

Connectivity Management Platform **User Manual** Version 9.100 Revision A

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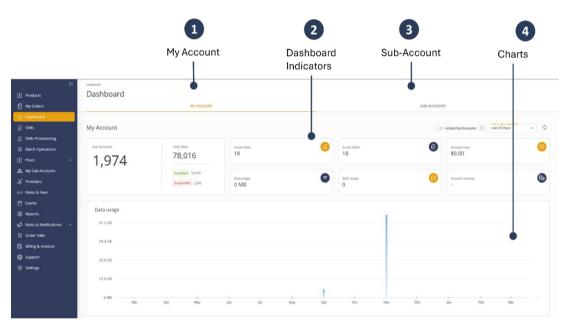
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1 Introduction

The Connectivity Management Platform (CMP) is a cloud-based solution that includes a fully virtualized 3G/4G/LTE and 5G core network, along with a comprehensive suite of Business Support Systems (BSS). These components enable our customers to fully manage their IoT business, from device manufacturing and distribution to complete IoT connectivity management.

1.1 CMP Homepage

The platform is a CMP-as-a-Service offering that includes various subsystems and management applications. A screen capture of the CMP homepage is shown below.



1.2 System Modules

All system modules are accessible through the sidebar menu which enables you to navigate the platform with ease. A description of the system modules is provided in this table.

System Module	Description	Reference
Dashboard	View key account information including usage statistics and trends.	See "My Dashboard" on page 13
SIM Managemen t	Manage the life cycle for a single SIM, group of SIMs or an entire population.	Refer to " SIM Table" on page 24
Batch Operations	Perform bulk operations on groups of SIM in the account.	Refer to "Batch Operations" on page 69
Plans	Define and manage rate plans for use by SIM cards	Refer to "Types of Plans " on page 90

System Module	Description	Reference
My Sub Accounts	Manage customer accounts under the main account.	Refer to "My Sub Accounts" on page 155
Providers	Select available providers for each customer.	Refer to "Providers Module" on page 261
Connectivity Rates	View My Rates and set connectivity rates for each customer.	Refer to " Rates and Fees" on page 173
Events	View SIM population network events for SIM behavior information.	Refer to "Events Module" on page 201
Reports	Generate ad-hoc reports for various SIM and billing activities.	Refer to "Reports " on page 234
Rules & Notification s	Define rules and notification channels for various SIM and rate plan conditions	Refer to "Rules and Notifications" on page 209
Billing & Invoices	Create billing adjustments and view past invoices	Refer to "Billing & Invoices" on page 275
Support	View and manage account support tickets.	Refer to "Open a Support Ticket" on page 1
Settings	Configure global system parameters such as users, labels, etc.	Refer to "System Settings" on page 280

1.3 Version Release Information

Version 9.100, 05 June 2025, Revision A

1.4 Before You Begin

This section contains a general description of the system including browser compatibility, account hierarchy, access restrictions and contingencies relating to client information.

1.4.1 Browser Compatibility

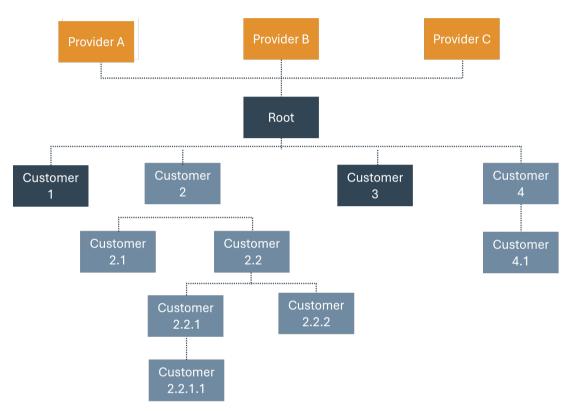
The SIM Connectivity Management system is compatible with all standard commercial web browsers, such as Google Chrome, Mozilla Firefox, Microsoft Edge, and Safari, ensuring seamless accessibility and usability across different platforms.

1.4.2 User Access and Usage Authorization

Access to the SIM Connectivity management system is restricted to registered users exclusively. Each user is assigned specific user authorizations based on their designated user roles within the system. These authorizations align with their respective roles' permissions, ensuring that users only have access to the functionalities and data pertinent to their responsibilities. By enforcing this user-role based access control mechanism, the system maintains security and confidentiality while facilitating efficient management of SIM connectivity operations.

1.4.3 Account Hierarchy and Multi-Tenancy

The platform account structure is hierarchical; every (mainly customer) primary (or parent) account can have multiple, multi-level child accounts under it. A child account inherits the functions and permissions of its parent account, with the only difference being the resources it can access. The system is multi-tenant; every piece of information is distinguished by the account it belongs to. This ensures that an account can access only its own information and resources and is shielded from other accounts. The following diagram illustrates the account hierarchical structure:



1.4.4 Client Information

Should a power outage occur on the client end, it is important to note that any information stored in the CMP application memory will not be preserved. We advise users to regularly save their work to avoid potential data loss in such situations.

1.5 User Login

To login into the platform, do these steps:

- 1. Visit <u>https://floportal.flolive.net</u> to display the login screen.
- 2. Enter your email and password.
- 3. Click **Sign in** to display the My Account dashboard (refer to "My Dashboard" on page 13)

NOTE: Click **Forgot Password?** in login screen to reset the password.

1.6 Terms of Service

When you login to the system for the first you must accept the Terms of Use of Service agreement.

To accept the Terms of Service agreement, do these steps:

- 1. Go to the system **Login** screen.
- 2. Click I Accept to agree to the terms of service.
- 3. To save a PDF version of the Terms of Use of Service agreement on your computer click **Download** (optional).

NOTE: For more information refer to "Upload Terms of Use " on page 284

1.7 Set Language

To set the language of the user interface, do the steps:

- 1. Go to the top bar and click your **User ID.** to display the menu options.
- 2. Select Languages to display a list of available languages.
- 3. Select a Language to update the homepage.

1.8 System Logout

To log out of the system, do these steps:

- 1. Go to the top bar and click your **User ID.**
- 2. Click Log out when the drop-down menu is displayed

1.9 Login on Behalf

The Login on Behalf feature enables a parent super admin to access the system on behalf of a sub-account user. With this functionality, the parent super admin gains temporary access to the sub-account and can perform actions, view data, or manage settings as if they were logged in as the sub-account user.

An example of the Login On Behalf screen is shown here.

		1		2)		3		
		Logged in User		Session Timeout			Login on B		
		You logged in on both of Imp	ertonute5@qqq.com	() Session time t	0:09:39				
0.							Q 🔮	0 0	oot@ro
E	SETTIMES, + USERS								
Dashboard	Settings								
SIMs	USERS LABELS TER	MS OF USE GL CODES	AUDIT TRAIL	EXTERNAL PARAM	IETERS SMS CONTENT	BILLING &	INVOICE D	VICE OPER	ATIONS
SIMs Provisioning								_	
Batch Operations	Users								USER
Nans 🗸 🗸	5 ltema					Q imp		0 7	ш
Ay Sub-Accounts	E-MAIL ADDRESS		ACCOUNT		ROLE				
roviders									
lates	tes simpson@pangea-group.net		Pangea 0		Super Admin				
vents	impersonate5@qqq.com		Longon	Behalf	Super Admin				
Reports	mpersonator/puser.demo		Login on	Behalf Demo	Daper Admin		/ Edit		
tules & Notifications 🗸 🗸	imper@sona.for		Logik on	Behalf Demo	Buper Adrien + Impe	reconator	Delete		
Order SIMs	mpergisonat or		Logie on	Behalf Demo	Super Admin + Impe	monator	a Login Or	Behalf	
Silling & Invoices	•				R	ows per page:	20 - 1.	5 of 5	
Settings									
	3		4)	5				
	List of		Seleo	ct	Super User				
	Users		Αссоι	Int	Role				

1.9.1 Preconditions

Make sure these conditions are met before you use Login On Behalf.

	Condition	Description
1.	User Permissions	The "Impersonator" must be logged in as a Super Admin.
2.	Account Type	The account must be a Connectivity Service Provider (CSP) Account
3.	User Token	The user must be registered in the system and have a valid Access and Refresh SSO token.
4.	MFA Status	The user Multi-Factor Authentication must be enabled or set as mandatory.
5.	Activity Status	The user must complete all assigned actions to enable Super Admin access.

1.9.2 Sub-Account Setup

To setup a sub-account for the Login On Behalf feature, do these steps:

1. Select an existing sub-account or create a new one.

- 2. Navigate to the account and settings enable the Connectivity Service Provider option.
- 3. Enable the **Allow Login** on Behalf option.
- 4. Set the **MFA** option to Enabled or Mandatory.
- 5. Click **Save** to update the account settings.

NOTE: If the MFA option is set to Disable then the Allow Login On Behalf option is also disabled.

1.9.3 Super Admin Setup

To define the Super Admin permissions for the Login On Behalf feature, do these steps:

- 1. Select **Settings** to display a list of users.
- 2. Select a **Super User** defined in the table and click the **Actions** icon.
- 3. Click **Edit** to display the Super Admin details.
- 4. Role Type and select Super Admin + Impersonator.
- 5. Click **Save** to update the user role settings.

1.9.4 Login On Behalf Via User Account

To Login On Behalf from the user account , do these steps:

- 1. Navigate to **My Account** on the top bar menu.
- 2. Select My Account | Login On Behalf.
- 3. Enter a user email address and click Login.

1.9.5 Login On Behalf Via System Settings

To Login On Behalf from the system settings, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Scroll the list of accounts and click the **Actions** icon for a selected account.
- 3. Click Login On Behalf.
- 4. Enter a user email address and click Login.

1.9.6 Session Timeout

When a Super Admin is logged in on behalf of a user, a green notification bar is displayed at the top of the screen. The notification bar contains the User ID and the Session Timeout.

1.9.7 Audit Trail

The Audit Trail for the Login on Behalf feature provides a comprehensive record of all actions performed by the parent super admin when accessing the system on behalf of sub-account users. The audit trail logs each login session initiated by a super admin and display these details:

- Specific name of the user and sub-account.
- Time and date of access including duration of session.
- Any action done by the Super Admin (e.g. data modifications and configuration settings etc.)

1.9.8 Logout On Behalf

To logout on behalf, do these steps:

- 1. Navigate to **My Account** on the top bar menu.
- 2. Select My Account | Logout On Behalf.

1.10 Display Online Help

To display the Online Help files, do these steps:

- 1. Go the top bar and click the ? icon to display the knowledge-base homepage.
- 2. Click **User Manual** display the online help default page.

NOTE: You can download a PDF Version of the User Manual from the top bar menu of the online help.

1.11 View Open Source Licenses

You can view and download Open Source licenses via the About Menu. The license information is updated every three months.

To view Open Source licenses, do these steps:

- 1. Go to the top bar and click your **User ID.** to display the menu options:
- 2. Click **About** to display a list of available licenses.
- 3. Click **Download** to save a PDF file to you computer.

4. Click **Close** to return to the Dashboard homepage.

NOTE: Links are provided for viewing of licenses from vendor sites.

2 My Dashboard

The Dashboard module provides comprehensive usage data for your (Parent) account and your (Child) sub-accounts over a user-configured length of time. It displays data and SMS usage, SIM connection data and cost, as well as revenue and profit summaries.

2.1 Types of Accounts

The dashboard module contains two different views:

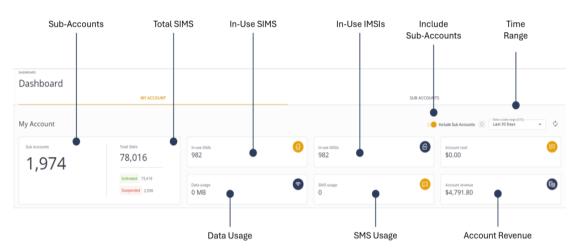
Type of Account	Description
Parent Account	Displays data from your (Parent) Account with or without the inclusion of your sub-accounts (Child). This section provides an overview of usage data specific to your main account. For more information refer to "Parent Account Dashboard" on page 14
Sub-Accounts	Displays data bar graphs from selected sub-accounts. When more than one account is selected, the bar graph aggregates data over all selected accounts. Additionally, the bar-graph data displays can be transformed into a pie chart. Each slice of the pie chart represents the percentage contributed by each of the selected accounts. Data from unselected accounts are not included in the pie chart. For more information refer to "Sub Accounts Dashboard" on page 19.

You can access the Parent Account and Sub Accounts by selecting the associated tab on the dashboard interface. A screen capture of the Dashboard module is shown here:

Products	Dashboard										
My Orders		MY ACCOU	π					SUB ACC	DUNTS		
<u>과</u> Dashboard											
] SIMS	My Account) Include Sub Ar	ccounts 🔘 La	es a dec elege (JTC) est 30 Days -
SIMs Provisioning	(•			6			
Batch Operations	Sub Accounts	Total Silita 78,016	In-use S 18	Ms	9	in-use INSIs 18		6	Account o \$0.00		
Plans v	1,974	70,010									
My Sub-Accounts		Activated 75,418	-		0			6			
Providers		Suspended 2,598	Data uso O MB		V	SMS usage O		G	Account is	rvense	
Rates & Fees											
Events	Data usage										
Reports							1				
Rules & Notifications v	51.2 C8										
Order SIMs	38.4 CB										
Billing & Invokes											
Support	25.6 CB						_				
Settings											
	12.8 GB										
					1						
	0 MB										

2.2 Parent Account Dashboard

The Parent Account serves as the primary entity within the SIM Connectivity Management system. This account controls and manages your account and all your associated Sub-Accounts. Typically, the Parent Account represents the main user or organization responsible for managing multiple Sub-Accounts and respective SIM cards or connected devices.



An example screen capture of the parent account data is shown here.

A description of the parent account data is provided in this table.

Attribute	Description									
Sub- Accounts	Number of sub accounts created by this account. The account dashboard counts only one level down in the child accounts hierarchy.									
Total Sims	 Total number of SIMs under the account inventory. Activated SIMs count is displayed in green. Suspended SIMs count is displayed in red. 									
In Use SIMs	Number of SIMs connected to the network for the specified duration of time.									
In Use IMSIs	Number of IMSIS in use for the specified duration of time.									
Include	Specify if sub-account data is displayed in parent account:									
Sub Accounts	• Enabled: Displays sub-account usage data for parent account.									
	• Disabled: Sub-account usage data not displayed for parent account.									
Time Range	Filter the time range for usage data in parent account.									

Attribute	Description
Data Usage	Total amount of megabytes in use for all SIMs during the defined time-frame. For more information, refer to "Data Usage Chart" on page 16
SMS Usage	Total number of SMS sent by all SIMs during the specified time-frame. For more information, refer to "IMSIs Per Location" on page 18
Account Revenue	Total account revenues from all child accounts during the user-configured length of time. For more information, refer to "Cost Revenue and Profit Chart" on page 17
IMSIs Per Location	The total number of active IMSIs in each country for the specified duration of time. For more information refer to "IMSIs Per Location" on page 18

2.3 View Parent Account Data

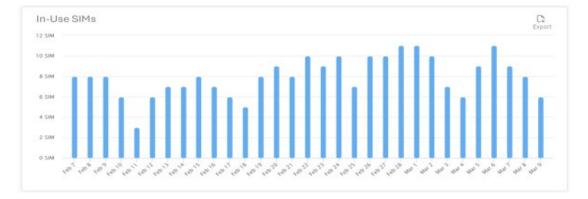
To view parent account data, do these steps:

- 1. Select **Dashboard** from the sidebar menu.
- 2. Click the **My Account** tab to display account data.
- 3. Select the Include Sub Accounts to display parent and sub-account data.
- 4. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom

2.3.1 In-Use SIM Chart

The In-Use SIM chart shows the number of SIMs that are connected to the network over a specified duration of time. Users can click the **Include Sub Accounts** toggle button to include or exclude the SIMs of sub-accounts.

An example of the In-Use SIMs chart is shown here.

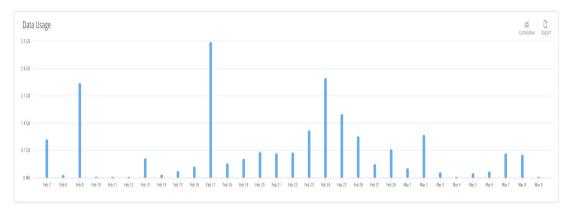


The In-Use SIMS chart options are described in this table.

Attribute	Description		
Export	Click to Export as CSV file.		
Tooltips	Hover over each bar in the bar graph to see the amount.		

2.3.2 Data Usage Chart

The Data Usage chart shows the total Data usage of all SIMs over the user-defined length of time. Click the Include Sub Accounts toggle to include/exclude the SIMs of sub-accounts.



An example of the Data Usage chart is shown here.

A description of the Data Usage chart options is provided in this table.

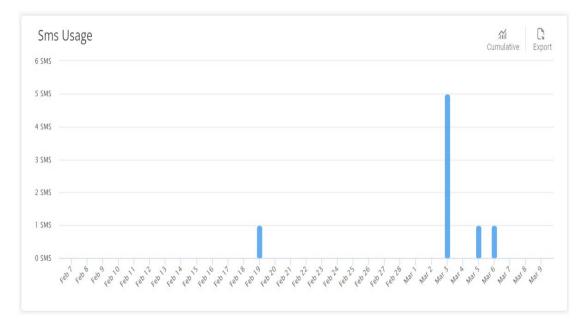
Attribute	Description			
Export	Click to Export as CSV file.			
Tooltips	Hover over each bar in the bar graph to see the amount.			

2.3.3 SMS Usage Chart

The SMS Usage chart shows the total number of SMS sent by all SIMs for a specified duration of time. Users can click the Include Sub Accounts toggle to include or exclude the SIMs of sub-accounts.

My Dashboard

An example of the SMS Usage chart is shown here.



A description of the chart options is provided in this table.

Attribute	Description
Export	Click to Export as CSV file.
Tooltips	Hover over each bar in the bar graph to see the amount.

2.3.4 Cost Revenue and Profit Chart

The Cost Revenue and Profit shows a calculation of account economic performance indicators. The indicators are color-coded as follows:

Color	Indicator	Description						
•	Cost	The total cost incurred by all SIMs in your account for a specified duration of time. This is the amount of money you must pay to your Parent account						
•	Revenue	The total account revenues earned by the SIMs in your sub accounts for a specified duration of time.						
	Profit	Calculated as Revenue minus Cost for a specified duration of time.						

An example of the Cost Revenue and Profit chart is shown here.



A description of the chart options is provided in this table.

Attribute	Description			
Export	Click to Export as CSV file.			
Tooltips	Hover over each bar in the bar graph to see the amount.			

NOTE: When the Include Sub-Accounts option is disabled, the dashboard only displays the Cost, since your main account does not have any revenue for its SIMs.

2.3.5 IMSIs Per Location

The IMSIs Per Location chart displays the total number of active IMSIs in each country for the specified duration of time.

An example of the IMSIs Per Location chart is shown here.



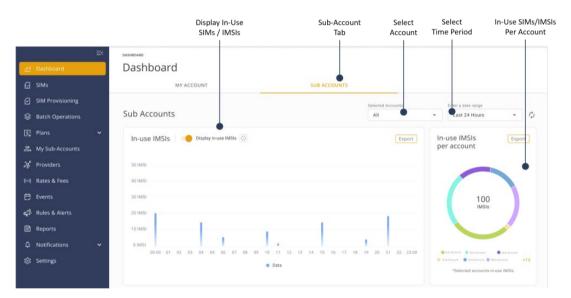
2.4 Export Parent Account Data

To export a the data for a parent account chart, do these steps:

- 1. Select **Dashboard** from the sidebar menu.
- 2. Click the My Account tab.
- 3. Scroll the page and select one of these charts.
 - Data Usage
 - In-Use SIMs
 - SMS Usage
 - Cost, Revenue and Profit
- 4. Select a chart and click **Export** to download a csv file to your computer.

2.5 Sub Accounts Dashboard

A Sub-Account is a child account linked to and managed under the Parent Account within the SIM Connectivity Management system. Sub-Accounts are often utilized to segment and delegate control over specific sets of SIM cards or connected devices.



A screen capture of the Sub-Accounts dashboard is shown here.

2.6 Types of Sub-Account Data

A description of the sub-account data is provided in this table.

Attribute	Description
Selected Accounts	Display data based on selected sub-accounts.
Time Period	Filter the time range for usage data in parent account.
In Use SIMS / IMSIs	Number of SIMs or IMSIS connected to the network for a specified duration of time.

Attribute	Description
In Use SIMS / IMSIs Per Account	The number of SIMs /IMSIs in use per account for a specified duration of time.
Data Usage Charts	 The Data Usage charts displays this information: Total Data Usage: Total Data amount of megabytes in use by all selected accounts for a specified duration of time. Data Usage Per Account: Total amount of megabytes in use by each account for a specified duration of time. For more information, refer to "Data Usage Charts" on page 21.
SMS Usage Charts	 The SMS Usage charts displays this information: Total SMS Usage: Total number of SMS sent by all SIMs for a specified duration of time. SMS Usage Per Account: Total number of SMS sent by each account for a specified duration of time. For more information, refer to "SMS Usage Charts" on page 21
Revenue and Charges Charts	 The Revenues and Charges charts displays this information: Total amount of revenue from all child accounts for a specified duration of time. Total amount of charges incurred by all child accounts for a specified duration of time. For more information refer to "Revenue and Charges Charts" on page 22.

2.7 View Sub-Account Data

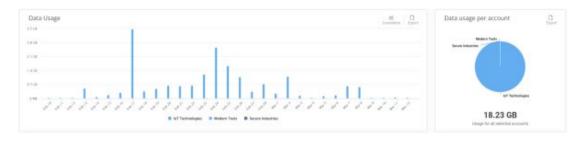
To view sub-account data, do these steps:

- 1. Select **Dashboard** from the sidebar menu.
- 2. Click the **Sub Accounts** tab.
- 3. Select one or more sub accounts from the **Select Accounts** list.

- 4. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom
- 5. Select a chart and click **Export** to download a csv file to your computer.

2.7.1 Data Usage Charts

The Data Usage display shows the total Data usage of all SIMs in the Selected Accounts over the user-defined length of time. Here is an example of the Sub Accounts Data Usage and its pie chart showing the data usage over the selected time period.



A description of the main components is provided here.

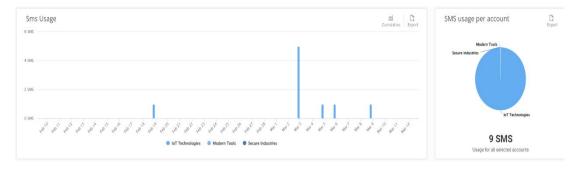
Attribute	Description			
Export	Click to Export as CSV file.			
Tooltips	Hover over each bar in the bar graph to see the amount.			

2.7.2 SMS Usage Charts

The SMS Usage display shows the total number of SMS sent by all SIMs in the Selected Accounts over the user-defined length of time.

Here is an example of the Sub Accounts SMS Usage charts that show the SMS usage over the selected time period:

My Dashboard



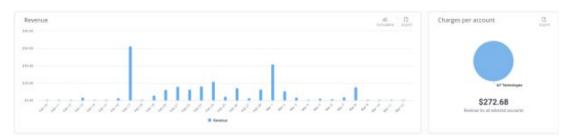
A description of the key elements is provided in this table.

Attribute	Description
Export	Click to Export as CSV file.
Tooltips	Hover over each bar in the bar graph to see the amount.

2.7.3 Revenue and Charges Charts

The Revenue bar graph and pie chart show a daily calculation of account revenue performance for specific time-frame. Revenue is defined as the total account revenues earned by the SIMs in the selected sub accounts for a defined length of time.

Here is an example of the Revenue bar graph and pie chart over the selected time period:



A description of the key elements is provided in this table.

Attribute	Description
Export	Click to Export as CSV file.
Tooltips	Hover over each bar in the bar graph to see the amount.

2.8 Export Sub-Account Data

To export data from a sub-account chart, do these steps:

- 1. Select **Dashboard** from the sidebar menu.
- 2. Click the **Sub-Accounts** tab.
- 3. Scroll the page and select one of these charts.

- \circ In-Use SIMs
- In-Use SIMs Per Account
- Data Usage
- Data Usage Per Account
- $\circ\,$ SMS Usage
- SMS Usage Per Account
- \circ Revenue
- Charges Per Account
- 4. Select a chart and click **Export** to download a csv file to your computer.

3 SIM Table

The SIMs table is a central hub for the management of SIM cards that enables users to perform these tasks:

- View and manage allocated SIMs inventory
- o Reallocate SIMs to child customers
- o View SIMs status in real-time
- o Manage related financial data

3.1 Table Data

The SIMs table lists the SIMs that have been manufactured and allocated to the current account and sub-accounts, including their operational status and additional attributes. The SIM table lists each SIM in a separate row. An example of the SIM data table is shown here.

J. Products	SIMs												C EXPORT
My Orders	123 SMs												⊤ III
<u>el</u> Dashboard	₩7 Locator (Issael @)	Littuaria () Mexico () N	amibia 🔕 🤇 South Africa	(United States	110 O Array (MODV Fr	end 0							Class Al
g sms	0 000	ED ACTIVE MS	and the second of	MERV †	SELLPLAN		0.000	SMS	0.47A	545	-545	LANDS	
] SIMs Provisioning	and the second s	EID ACTIVE IMSI	ME	MEGY T	SUMA	SYSTEM LABELS	STATUS	Monthly usage	Soly usepe	Westly utage	Dely unope	LABELS	
Batch Operations	· · · · ·	222010941972284	3558032105280508	1545646545948	Automation Robive Default: 0	•automation_a)attencia. 0	Attra	1	1	1	đ		1
] Plans 🗸 🗸		222010604270655	887150691264826	3571506912646211	21	• automation, ayatem, (a., 0)	Active	1		12		5	1
My Sub-Accounts	· · · · · · · · · · · · · · · · · · ·	E222010448461263	057150691264826	3571506912648288		e sutomation, system, la., 0	Active		10		4		1
Providers	00057114945900623202	- 601200132072595	0538631156765706	2	Automation flotive Defaul.	ŞI.	Active	(1)	(Q)	(Q)	ς.		1
) Rates & Fees	B9057110069480060565	- 001200657829019	3576601013343402	-	Automation flokive Defaul., O		Active			16	3		1
Events	0 .000000013020001405	B 222010029563628	8609650619376031	2	2	•automation_ayatem_la_ 0	Active .	ар С	32	12	ŝ.		1
Reports	00.00057113784564007011	222010040749138	0550002105200500	-	Automation floLive Defaul	• extornation_ayatem_la_ 0	Active	1	1	1	0		1
Rules & Notifications 🔍	0000711007979000930	222010685956919	3556002105280508	2	Automation flotive Defaul 0	eutomation,ayatem,ia. 0	Active	1		141	0		1
7 Order SIMs	0 89357114797253846364	- 00120114064852	3358032105280508		Automation Robie Defaul.		Atter						1
Billing & Invoices	0 00007119480706047396	222010995143979	3556032103280508	-	Automation flotive Defaul. O	• sutomation, system, Ja. 0	Active	1	14				1
) Support	49357112177645452309		8358032103280508		Automation floEve Defaul. 0	extonation astern.la. 0	Atta	i.	1				1
© Settings	0 00057112177905452309	222010977311050	8358032103280508		Automation floLive Defaul., 0	e automation, ayaham, Ja., O	Active	1	1	1	0		

3.2 Table Columns

A description of the SIM attributes is provided in this table:

Attribute	Description
Account	The current account name the SIM is allocated to.
Active IMSI	The currently active IMSI used by the SIM.
Active MSISDN	Displays the active MSISDN currently used by the SIM.

Shows the plans and packages created by the Parent account and attached to this SIM.					
The last country in which the SIM established a connection.					
Display the date and time of the device last open/closed PDP session.					
Display the date and time of the device last created DR.					
The current data usage information. The SIM's data usage hows the usage in three columns:					
• Monthly Usage: The aggregate usage to date from the					
first calendrical day of the month, January 1, February 1,					
etc.; resets at midnight of the first day of the month.					
• Weekly Usage: The aggregate usage to date from the					
first day of the week, Sunday to the present; the week					
starts on Sunday; resets at midnight Sunday.					
• Daily Usage: The aggregate usage today starting from					
midnight; resets at midnight of the next day.					
[eUICC SIM] The EID ID, which identifies this eUICC SIM (or eSIM). Hover the cursor over the EID icon to view the EID ID: Click the icon to copy the EID to the clipboard. This column is frozen in place and cannot be moved or hidden using Customize Columns. An empty cell (denoted by a hyphen) indicates that the SIM is a regular UICC SIM.					
The SIM's ICCID and the user-assigned SIM alias. This column is rozen in place and cannot be moved or hidden using Customize Columns.					
The IMEI number of the device using this SIM.					
Displays the IMEI number with an additional designation for he device firmware/software version					
The list of IMSIs available on the SIM card. When there is more han one IMSI, the system displays the first IMSI followed by a (+" sign and the number of additional IMSIs (e.g., 123456677 -2). ^{II} When you hover over the "+" sign, a tooltip is displayed o show the rest of the IMSIs.					
ndicates whether the SIM is currently actively using a data ession.					
One or more labels assigned to the SIM for grouping, earching, filtering, and performing bulk actions on SIMs with he same label.					
he date and time of the last created data record for the elected SIM.					
Subscriber identifier by phone number assigned by the operator. For eUICC SIM (EID) with several profiles, the					

Attribute	Description				
	MSISDN of the currently active profile. When there is more than one MSISDN the system displays the first MSISDN followed by a "+" sign and the number of additional MSISDNs (e.g., 123456677 +2). When you hover over the "+" sign, a tooltip is displayed to show the rest of the MSISDNs.				
Profile Alias	[eUICC SIM] Applies to this EID, which may have several embedded profiles with different ICCIDs, only one of which is active. The profile alias of the currently active profile of this EID (eUICC SIM).				
Sell Plan/Package	Shows the plans and packages created by your account and that are used to charge your Sub-account SIM.				
SMS Usage for Period of Time	 The current SMS usage information. The SIM's SMS usage shows the usage in three columns identical to that for Data Usage: Monthly Usage Weekly Usage Daily Usage 				
Status	The current SIM status: Active, Suspended, or Suspended - Locked.				
System Labels	Labels used to tag SIMs with system attributes (for example, EUICC, LPWA, etc.) and used in various business processes, such as generating reports, invoicing, and billing. Note that System Labels are assigned to SIMs during production and cannot be created nor edited using the platform portal.				

3.3 SIM Data Actions

A description of the SIM table actions is provided in this table.

Action	Description
Search SIM	Search for a specific SIM, according to SIM Alias, EID, ICCID IMSI, IMEI or MSISDN. For more information refer to
Filter	Filter the SIMs table. For more information refer to
Export	Export the SIMs table contents to a CSV file. For more information refer .

3.4 Filter SIM Data

When you open the SIMs table it is recommended that you apply SIM Table filters to populate the SIMs based on filter criteria.

To filter the SIMs table, do these steps:

- 1. Click the Filter button, located in the upper right corner of the SIMs table.
- 2. To filter by **Accounts**, select all accounts you want to appear in the SIMs table.
- 3. To filter by **Location**, select all locations whose SIMs you want to view in the SIMs table.
- 4. To filter a range of SIMs, click the **Select Type** and select the appropriate type:
 - None
 IMSI
 ICCID
 EID
 IMEI
 IMEISV
 - MSISDN

NOTE: The filter function works across all profiles of an eUICC SIM, both active and inactive. Thus, for example, if you filter by ICCID, IMSI or MSISDN type and you enter a range or discrete value that matches an inactive eUICC profile, the filter finds that SIM and displays it (its active profile) in the SIMs table.

- 5. To filter by Ranges, click the **Ranges** button and enter a **From** and **To** range.
- 6. To filter by Discrete SIMs. select a SIM ID type and then the **Free text** button.
- 7. Type or copy/paste the SIMs into the field as directed (comma delimiter).
- 5. To filter by (Billing) **Plan**, select all Billing Plans for the SIMs you want to view in the SIMs table.
- 6. To filter by **Labels**, select all the Labels assigned to the SIMs you want to view in the SIMs table.
- 8. To filter by **Status**, select one of these states:
 - \circ Active
 - Suspended

NOTE: If you do not filter by Status, both Active and Suspended SIMs are displayed.

9. To filter by Usage (Data or SMS), first select a time period:

- o Daily
- Weekly
- Monthly (default)

3.4.1 Set Time Frame

When you activate the filter, the **Data <time period> usage**and **SMS <time period> usage** columns of the SIMs table display the aggregate usage for the time period you choose.

Period of Time	Description
Monthly	The usage to date from the first calendrical day of the month, January 1, February 1, etc.; resets at midnight of the first day of the month.
Weekly	The usage to date from the first day of the week, Sunday to the present; the week starts on Sunday; resets at midnight Sunday.
Daily	The usage today starting from midnight; resets at midnight of the next day.

NOTE: If Multiple Plans are attached to a SIM, the Usage filter filters only the plan with the highest priority. The SIM with lower priority plans will not be displayed in the SIMs table, even if the SIM-(lower priority) Plan combination meets the Usage filter criteria.

3.4.2 Filter by Data Usage

To filter by Data Usage, do these steps:

- 1. Click the left arrow and select the **Data Amount Qualifier**:
 - a. Less than filters to "Less than or equal to".
 - b. Greater than: Filters to "Greater than or equal to".
- 2. Click the middle field and type an **Amount**: The data amount is a numerical value range (including 0 zero).
- 3. Click the right field and select the **Unit of Volume.**

NOTE: Only SIMs whose Data usage matches the Data filter criteria appear in the SIMs table.

3.4.3 Filter by SMS Usage

To filter by SMS usage, use the SMS filter fields.

- 1. From the Usage filter, select the **SMS** check box.
- 2. Click the left arrow and select the **Data Amount Qualifier**:
 - a. Less than filters to "Less than or equal to".
 - b. Greater than: Filters to "Greater than or equal to".
- 3. Click the right field and type an **Amount.**

NOTE: Only those SIMs whose SMS usage matches the SMS filter criteria appear in the SIMs table.

3.4.4 Filter by External Parameters

You can filter by only one External Parameter at a time. To filter by External Parameters, do these steps.

- 1. Click the **Parameter Name** field. A list of SIM-type External Parameters is displayed.
- 2. Select the **External Parameter**, for example DevType.

NOTE: You must know the value in its entirety to find the SIM(s) that the External Parameter with that value is attached to. Partial entries are not recognized.

- 3. Type the **Value** of the External Parameter in the Value field.
- 4. Click **Apply**.

TIP: When you complete your selection the Filter Options window closes, and the SIMs table displays only data with selected attributes only.

3.5 Export SIM Data

This feature enables users to export SIM table data to an external CSV file. There are two options to export the data displayed in the SIMs table:

 Export Displayed Columns: This option enables users to export data from the table containing only the columns currently visible on the user interface. It allows users to tailor their exports to include only the information currently displayed in the table. Export Displayed and Hidden Columns: With this option, users can export data from the table, including both the columns currently displayed on the user interface and any hidden columns. It provides users with a comprehensive export of all available data columns, ensuring no information is omitted from the exported dataset.

If the SIMs table has a larger number of SIMs than can be exported into a single file an appropriate message is displayed. You need to refilter the SIMs table to obtain finer granularity that reduces the table contents.

CSV File Attributes

The exported file name has the following format: SIM_export_yyyymmdd.csv

NOTE: The exported filename contains the time stamp of the generated CSV file, for example: SIM_export_20220201.csv

TIP: The CSV file includes both the SIM identifiers (ICCID, EIDs, IMSIs) and UUIDs and can be associated with other actions, such as file-based bulk operations and API calls.

The CSV file includes both the SIM identifiers (ICCID, EIDs, IMSIs) and UUIDs and can be associated with other actions, such as file-based bulk operations and API calls. The SIMs in the CVS file are identified by the SIM name, the account name and billing plan. If the SIMs listed in the SIMs table have been mapped to external customer IDs, these customer IDs will be incorporated in the CSV file.

Export Procedure

To export the SIMs table contents to a CSV file do these steps:

- 1. Select **SIMs** from the sidebar menu.
- Click Customize Columns and select the columns you want to display in the SIMs table.
- 3. Click **Save** to update the SIMs table.
- 4. Click Export Options and select one of these options:
 - a. Export Displayed Columns
 - b. Export Displayed and Hidden Columns.
- 5. Click **Export** to download csv file.

Example CSV File

Here is an example of the exported CSV file.

Sim UUID	Child Sim UUID	ICCID	EID	Profile Alias	Account UUID	Account Name	Sub Account UUID	Sub Account Name	Alias	Last Activated
262c72a0-bfbe-44d9-909e-41567d0b52dd		8935711001000609026		floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	FloLive				
7f5aeedc-ae5e-40b6-818b-3f4bd5a5a366		15432121586279437440		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive			test_alias	21154300518
7a889f13-4b01-40ea-8b14-8f41e598db2b	494a2055-d962-49b1-a827-1d5b4833a60f	1111100000000666882		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	FloLive	3bc6762d-f1d6-45bc-a37f-2b5d05176c3d	parent_account_896192	test_alias	22201307089
fecfd4af-fd7a-495e-8241-a26c6e777d84	809622a6-3d62-4f38-8c73-74d4a44f2302	1111100000000905336		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	FloLive	61ab4248-31a4-4bb0-bd5a-ebe8072e03c4	parent_account_703632	test_alias	22201307081
f7079910-bc8f-4082-ba31-7a620bcac05c		15432121130415436343		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive			test_alias	21154384646
c29dde65-ec3e-4c6b-9034-1c7175df0e2f	Od498ae4-0935-4ea3-a8cf-acda1737ab28	111110000000888480		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	FloLive	928c2e21-ee68-4d4d-9574-e5f0e3e46698	0705 nerya	test_alias	7778049980
e23270a7-a1d5-4359-9579-6c5f46a6263f	02eaa8b3-8fdb-41d3-948a-8292376050ed	8935711001000609023		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	FloLive	c1d131de-8066-46aa-9f94-a1058b0194e7	heorhii_2nd_level_account	test_alias	
f4f486cc-db1e-455f-a581-b2888aae22e8	6f4cc6c4-14b5-4ea4-b3fa-05a8cffc60b9	8935711001000609032		floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	FloLive	c1d131de-8066-46aa-9f94-a1058b0194e7	heorhii_2nd_level_account	test_alias	7778049032
8af00ae1+b947-466b-b291-e9f9ff7a37ad		15432121885726672597		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive			test_alias	21154319313!
2f30f3d3-884a-4e60-aba9-dd4494c71918		15432121660943768433		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive			test_alias	211543740734
f04480ca-8457-46ed-a456-e0798dd5f833	a4e1d3e7-c6ac-499d-99a3-2a6fea7f50e1	4670084282812000000		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	floLive	a9e702c6-9b32-401d-964f-315d426d97a5	solidTest		78265210291
Of8babe9-7f55-467a-96ce-6375b1031d00	97b76dec-a1d5-4dd1-84d9-8ebc660d8275	4670084282810000000	8947156240762430000010300000000	flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive	a9e702c6-9b32-401d-964f-315d426d97a5	solidTest		78265210291
c83d46ac-baf8-4776-817f-f9a55abe2a0d		4670084282815000000		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	floLive				782652102924
3b632b30-f23d-4078-a360-454e46f9b70f		15432121204929974379		flotive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive			test_alias	21154341936
88816f14-15ce-4c57-a3db-1bee4f4714d0		69628900843619300000	64481989075372000000000000000000	floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	floLive				3940553238
92021111-8a3a-445a-b7a0-f79d958bfc07		91015836166275553999	7934260250835199882457948463224	floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive				+3155621559
4e4fc0ed-37ca-4a93-9589-0e014f3348e2		38181253689441156702	6126093547536958194442092621012	floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive				6408545686
3869de88-d1a8-48a4-b997-ba69aff294d0	7acba202-bd5f-437f-a80b-abc3627cf212	4670084282808000000		floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive	a9e702c6-9b32-401d-964f-315d426d97a5	solidTest		78265210291
794625b6-026a-480f-b424-5f240c2271a7	10948709-c793-40e0-8bcd-bd0939b1a1cb	4670084282806000000	8947156240762430000010200000000	floLive	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive	a9e702c6-9b32-401d-964f-315d426d97a5	solidTest		78265210291
d9a82b29-278e-44ac-ae52-a1bb78dd1311	8deafb0a-239e-4fa5-a490-3c7b40b361b5	8935700001087556225	89472562400000000000000000000000000000000000	Telenor	5ba39f3b-29d2-43ba-948e-0b7103ed0740	flotive	eb89f0d1-9868-4f0d-96ff-b78f1dde4848	YAFIT		99911000000

NOTE: The cell delimiter for lists of values within a cell is a comma (,).

3.5.1 Description of CSV Information

A description of the CSV information is shown in this table.

Attribute	Description
SIM UUID	The UUID (Universal Unique Identifier) of this SIM.
Child Sim UUID	The child subscriber UUID of this SIM.
ICCID	The SIM ICCID (Integrated Circuit Card Identifier) serial number.
EID	[eUICC SIM] The EID ID, which identifies this eUICC SIM (or eSIM). An empty cell indicates that the SIM is a regular UICC SIM.
Profile Alias	[eUICC SIM] Applies to this EID. which may have several embedded profiles with different ICCIDs, only one of which is active. The profile alias of the currently active profile of this EID (eUICC SIM).
Account UUID	The UUID of the account that this SIM belongs to.
Account Name	The full account name of this SIM.
Sub Account UUID	The UUID of the sub account that this SIM belongs to.
Sub Account Name	The full account name of this SIM.
Alias	The alias (if any) applied to the account that this SIM belongs to.
Last Activated MSISDN	The last MSISDN that was activated by this SIM (member of MSISDN/IMSI pairing).
MSISDNs	The list of MSISDNs that have been assigned to this SIM.

A	.					
Attribute	Description					
Last Activated	The last IMSI that was activated by this SIM (member of MSISDN/IMSI pairing).					
IMSIs						
IMEI		The list of IMSIs that have been assigned to this SIM. The IMEI assigned to this GSM SIM.				
				vi.		
IP Address	Last al	located IP addr	ess.			
SIM Status UUID	The SII	M's status insta	ince UUID.			
SIM Status	SIM St	atus: ACTIVE, S	USPENDED.			
Sell Plan UUID	The Ul	JIDs of the Sell	Billing Plan	that the SIM subscriber is paying for.		
Buy Plan UUID		JIDs of the Buy ⁄I subscriber is	-	(created by the Parent account) that		
Sell Plan Name	The na	mes of the Sell	Billing Plans	s assigned to this SIM.		
Buy Plan Name	The na	me of the Buy	Billing Plan a	assigned to the SIM.		
Sell Plan Priority	The Se	The Sell Plans current assigned priorities (used for Multi Plans).				
Buy Plan Priority	The Bu	The Buy Plans current assigned priorities (used for Multi Plans).				
Sell Plan Data usage		The total Sell-Plan Data usage of this SIM at the moment that the CSV file was created.				
Sell Plan SMS usage	The total Sell-Plan SMS usage of this SIM at the moment that the CSV file was created.					
Buy Plan Data usage	The total Buy-Plan Data usage of this SIM at the moment that the CSV file was created.					
Buy Plan SMS usage		The total Buy-Plan SMS usage of this SIM at the moment that the CSV file was created.				
Country	The co	The country where the SIM was last connected.				
Labels	User labels assigned to this SIM.					
System Labels	System	System labels assigned to this SIM.				
Last connected time	The last time this SIM connected to the network at the moment the CSV file was created.					
	The Radio Access Technology used by this SIM at the time the CSV file was created. RAT Type Used by HSS/HLR					
RAT	Value	RAT Type	Value	RAT Type		
	1000	UTRAN – 3G	1013	WB-EUTRAN(GEO)		
	1001	GERAN – 2G	1014	WB-EUTRAN(OTHERSAT)		
	1002	GAN	1021	NB-IoT(LEO)		
	1003	HSPA Evolution	1022	NB-IoT(MEO)		

Attribute	Description				
	1004	EUTRAN - 4G	1023	NB-IoT(GEO)	
	1005	EUTRAN NB IoT	1024	NB-IoT(OTHERSAT)	
	1006	NR – 5G	1031	LTE-M(LEO)	
	1007	LTE-M	1032	LTE-M(MEO)	
	1008	NR-U	1033	LTE-M(GEO)	
	1011	WB- EUTRAN(LEO)	1034	LTE-M(OTHERSAT)	
	1012	WB- EUTRAN(ME O)			
	RAT Ty	pe Used by AA	A/GGSN/PG	W	
	Valu e	RAT Type			
	0	<reserved></reserved>			
	1	UTRAN – 3G			
	2	GERAN – 2G			
	3	WLAN			
	4	GAN			
	5	HSPA Ecolution			
	6	EUTRAN (WB-E	UTRAN – 4	G	
	7	Virtual			
	8	EUTRAN NB IOT			
	9	LTE-M, CAT-M			
	10	NR			
Connected operator	The ID code of this SIM's operator.				
	The last location recorded of this SIM at the moment the CSV file was created.				
Last Location	The coordinates comprise four values separated by a slash, as follows:				
	MCC/MNC/LAC or TAC/CellID or SAC or ENB or RAC				
	For the fourth value, the order is important:			important:	

Attribute	Description						
	• If the first is found, only it will appear; if not, then the second value will appear						
	 If not, then the third value will appear. 						
	Thus:						
	• If CI is found, then the location will be MCC/MNC/LAC or TAC/CI						
	• If CI is not found, the location will be MCC/MNC/LAC or TAC/SAC						
	 If SAC is not found, the location will be MCC/MNC/LAC or TAC/ENB 						
	 If ENB is not found, the location will be MCC/MNC/LAC or TAC/RAC 						
	Range:						
	MCC = Mobile Country Code CellID = Identifies the BTS or a sector						
	MNC = Mobile Network Code SAC = Service Area Code						
	LAC =Location Area Code						
	TAC =Tracking Area Code						
External parameters	The list of External Parameters names and values assigned to the SIM.						
<time period>Data</time 	The SIM's current data usage information. The SIMs data usage shows the usage in three columns:						
Usage	 Daily Data Usage Mb: The aggregate usage today starting from midnight; resets at midnight of the next day. 						

Attribute	Description
	 Weekly Data Usage Mb: The aggregate usage to date from the first day of the week, Sunday to the present; the week starts on Sunday; resets at midnight Sunday. Monthly Data Usage Mb: The aggregate usage to date from the first calendrical day of the month, January 1, February 1, etc.; resets at midnight of the first day of the month.
<time period>SMS Usage</time 	The SIM's current SMS usage information.

Search SIM Data

You can search the SIMs Table by SIM Alias, ICCID, EID (eUICC SIM identifier), IMSI number or MSISDN. The search function works across all profiles of an eUICC SIM, both active and inactive. Thus, for example, if you search by ICCID, IMSI or MSISDN type and you enter a complete or partial value that matches an inactive eUICC profile, the search engine finds that SIM and displays the active profile in the SIMs table.

To search the SIMs Table:

- 3. Go to the Search field on the right side of the page header.
- 4. Type the ICCID, EID, IMSI number or MSISDN in the search box. A list of results is displayed.
- 5. Click on an Alias (ICCID/EID/IMSI/MSISDN) in the search result to open the SIM Page.
- 6. Use the scroll bar to view additional ICCIDs/EIDs/IMSIs/MSISDN.

TIP:You can type any part of the search parameter to display a list of entities that match the partial entry.

3.6 SIM Actions

You can perform different actions on single or multiple SIMs from the SIMs module. You can also perform SIM actions on a single SIM displayed in the SIMs Info Page.

3.6.1 Single SIM Actions

A description of the actions for a single SIM is provided in this table.

Action	Description	
	Top-up the SIM with additional Data, SMS or money quota, depend on the SIM's assigned Billing Plan. Topping Up changes only the qu of the current billing cycle. It does not change the quotas defined in Billing Plan.	
	• Only SIM child accounts can be topped-up.	
Top up	• You can top-up multiple SIMs at the same time only if they all have the same Billing Plan.	
	• If a SIM has multiple plans attached, you can top up only one plan at a time (by selecting the plan	
	• You cannot top-up SIMs that do not have an attached Billing Plan.	
Change alias	Give a SIM an alias or edit an existing alias to facilitate searching for this SIM in this and other modules (from the Search SIMs field).	
Details	Opens the SIM Info page for additional SIM information	
Move	Move the SIM to a different account	
Reload SIM	This action is performed on a SIM that may experience registration and/or connectivity issues with the current connected mobile network. Click this action to manually send a cellular network "Cancel Location" command to the SIM. The SIM will try to reregister to the mobile network.	
Labels	Attach a label to this SIM; you can attach an existing label or create a new label and attach it	
Suspend	Change the SIM state from Active to Suspended, in which the SIM cannot register to the network. This option is applicable only for an active SIM.	
Activate	Change the SIM state from Suspended to Active, in which the SIM can register to the network. This option is displayed only for a suspended SIM.	
Send SMS	Send Text SMS to the device.	
Manage Plans	Opens the Manage Plans tab in the SIMs Info page that lists all Billing Plans attached to this SIM and allows you to:	
	• Attach new Sell plans to this SIM	

Action	Description		
	 Detach plans from this SIM 		
Attach Plan	 Attaches the SIM to a new Billing Plan. Only Sell plans can be attached Only SIM child accounts can be assigned to a new Billing Plan. You can change the plans of multiple SIMs at the same time only if they all have the same Billing Plan (see below). 		
Detach Plan	Detaches the SIM from a Billing Plan it now belongs to. If you detach a SIM from a pre-paid (Money or Usage) Billing Plan in the middle of a billing cycle, the SIM is still charged over the entire billing cycle. When you detach a SIM from a Billing Plan, and no other Billing Plans are attached, the SIM can no longer use connectivity services; connectivity is restored when the SIM is reattached to a Billing Plan.		

3.6.2 Multiple SIM Actions

A description of the actions for multiple SIMs is provided in this table.

Action	Description		
SIM Activate	Change the SIM state from Suspended to Active, in which the SIM can register to the network,		
	Top-up the SIM with additional Data, SMS or money quota, depending on the SIM's assigned Billing Plan.		
	Topping Up changes only the quotas of the current billing cycle. It does not change the quotas defined in the Billing Plan.		
Tonun	Notes:		
Тор ир	• Only SIM child accounts can be topped-up.		
	• You can top-up multiple SIMs at the same time only if they all have the same Billing Plan.		
	 If a SIM has multiple plans attached, you can top up only one plan at a time (by selecting the plan) 		

Action	Description	
	 You cannot top-up SIMs that do not have an attached Billing Plan. 	
Move	Move the SIM to a different account. You can move multiple SIMs at the same time only if they are all in the same account.	
Reload SIM	This action is performed on a SIM that may experience registration and/or connectivity issues with the current connected mobile network. Click Reload SIM to manually send a cellular network "Cancel Location" command to the SIM. The SIM will try to reregister to the mobile network.	
Labels	Attach a label to this SIM; you can attach an existing label or create a new label and attach it	
Suspend	Located under Action Menu. Change the SIM state from Active to Suspended, in which the SIM cannot register to the network	
Attach Plan	 Located under Action Menu. Attach the SIMs to a new Billing Plan. Only Sell plans can be attached. Only SIM child accounts can be assigned to a new Billing Plan. You can change the plans of multiple SIMs at the same time only if they all have the same Billing Plan. 	
Detach Plan	Located under Action Menu. Detach the SIMs from the Billing Plan they now belong to. If you detach a SIM from a pre-paid (Money or Usage) Billing Plan in the middle of a billing cycle, the SIM is still charged over the entire billing cycle. When you detach a SIM from a Billing Plan, and no other Billing Plans are attached, the SIM can no longer use connectivity services; connectivity is restored when the SIM is reattached to a Billing Plan.	

3.6.3 SIM Info Page Actions

A description of the actions available in the SIMs Info page is provided in this table.

Action	Description	
	Top-up the SIM with additional Data, SMS or money quota, depending on the SIM's assigned Billing Plan. Topping Up changes only the quotas of the current billing cycle. It does not change the quotas defined in the Billing Plan.	
	• Only SIM child accounts can be topped-up.	
Тор ир	• You can top-up multiple SIMs at the same time only if they all have the same Billing Plan.	
	 If a SIM has multiple plans attached, you can top up only one plan at a time (by selecting the plan) 	
	• You cannot top-up SIMs that do not have an attached Billing Plan.	
Change alias	Give a SIM an alias or edit an existing alias to facilitate searching for this SIM in this and other modules (from the Search SIMs field).	
Move	Move the SIM to a different account,	
Reload SIM	This action is performed on a SIM that may experience registration and/or connectivity issues with the current connected mobile network. Click Reload SIM to manually send a cellular network "Cancel Location" command to the SIM. The SIM will try to re-register to the mobile network.	
Labels	Attach a label to this SIM; you can attach an existing label or create a new label and attach it	
Suspend	Change the SIM state from Active to Suspended, in which the SIM cannot register to the network. This option is available only for active SIMs.	
Activate	Change the SIM state from Suspended to Active, in which the SIM can register to the network. This option is available only for a suspended SIM.	

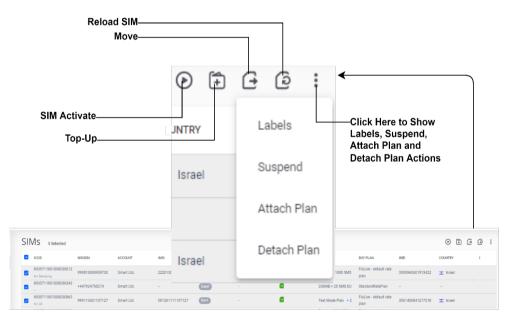
Action	Description	
Send SMS	Send Text SMS to the device.	

To do SIM actions on a single selected SIM from the SIMs table on the SIMs page:

- 1. Click the Actions icon located on the right side of the SIM row. The SIM Actions dialog box is didplayed.
- 2. Select the desired action from the SIM Actions pop-up.

To do SIM actions on a single selected SIM or multiple selected SIMs from the SIMs table on the SIMs page:

1. Select a single SIM or multiple SIMs using the check boxes to the left of each SIM row. The SIM Actions for single/multiple SIMs appear at the right side of the SIMs module header.



Single/Multiple SIM Actions from the Left-Side Checkboxes

2. Select the desired action.

To do SIM actions on a single selected SIM from the SIMs Info page:

1. From the SIMs table, click on the table row containing the SIM or select a SIM from a Search action result list.

The SIM Info page appears

2. Click located at the upper right corner of the SIM Info page (the extreme right edge of the page header containing the SIM General information):

The SIM Actions pop-up appears.

	SIM	
l	+	Top-up
İ	₽	Change alias
	œ	Move
5	6	Reload SIM
Y	\bigcirc	Labels
		Suspend
v	⊳ s	end SMS

Single SIM Actions from SIM Info Page Right-Side Icon

3. Select the desired action from the SIM Actions pop-up.

Top Up SIM

You can Top Up SIMs by:

- Clicking the icon at the right end of a SIM row to Top Up a single SIM
- Using the checkboxes on the left side of each SIM row to select a single or multiple SIMs
- Clicking the icon at the right end of the SIM Info page header (Getting SIM Info)

Guidelines

Top Up can be done on SIMs whose assigned Billing Plan is of type Money or Usage.

A SIM assigned the Money Billing Plan can be topped-up with additional money for the current billing cycle.

A SIM assigned the Usage Billing Plan can be topped-up with additional Data quota or SMS quota, or both, for the current billing cycle; you also set the price (cost) of the new quota.

Topping Up changes only the quota of the current billing cycle. It does not change the quotas defined in the Billing Plan.

You cannot top up SIMs that do not have an attached Billing Plan.

You cannot top up SIMs that are attached to a Pool Plan. You can, however, top-up the Pool Plan.

When you top up a SIM with Multiple Plans, you must choose the plan you want to top up; you can top up only one plan at a time. This is true also when you top up multiple SIMs from the SIMs table.

Top Up a single or Multiple SIMs from the SIMs Table

The Top-up action is available for:

- Single SIMs from the SIMs table
- Multiple SIMs from the SIMs table
- SIM on the SIM Info page

To do the Top up action:

1. Invoke Top-up as described above.

The Top up this SIM dialog appears.

Note that when you select multiple SIMs from the SIMs table, the ICCID identifier at the top of the dialog does not appear.

te top up la for the SM with ICCI	D: 8935711001000030012	
nar Plan 1 16 1080 BMS		3
Cont *	Oursenge+	
sins •		
Desa*	947	

Top Up SIM Dialog

- 2. Click the Plan field and select a plan that the SIM is attached to.
- 3. Set the parameters in the Top-up this SIM dialog:

 $\circ \ {\rm Cost}$

○ Currency

- $\circ\,$ Number of SMS
- Data volume + Units (Gigabyte, Kilobyte, Megabyte)
- 4. Click Submit.

Change SIM Alias

The Change Alias action is available for:

- Single SIMs from the SIMs table using the Action menu.
- SIM on the SIM Info page using the Action menu or directly in the SIM Info Page General Info area.

Change SIM Alias Using the Action Menu

Change SIM Alias can be invoked for single SIMs from the Action menus of the SIMs table and the SIM Info page.

To do the Change Alias action from the Action menus:

1. Invoke Change alias from the Action menu.

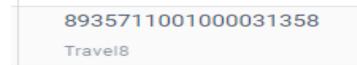
The Change SIM alias dialog appears.

Change SIM alias			
Alias *			
CANCEL	SUBMIT		
CANCEL	SOBMIT		

Change SIM Alias Dialog

- 2. Type the alias or edit an existing alias in the Alias field.
- 3. Click Submit.

The alias appears under the ICCID number in the ICCID column:



SIM Alias Example

Change SIM Alias Directly in the SIMs Info Page General Info Area

To do the Change Alias action directly from the SIMs Info | General Info area:

1. From the SIMs table, click on the table row containing the SIM or select a SIM from a Search action result list.

The SIM Info page appears.

If you have not yet given the SIM an alias, the ICCID appears in boldface in the General Info area, like this:

8935711001000030053 Active

SIM ICCID in the SIM Alias Field when no Alias has been Assigned.

If you have already given the SIM an alias (for example, Travel8), the alias appears in boldface in the General Info area, like this:

Travel8 Active

SIM Alias in the SIM Alias Field

2. Hover your cursor and then click the ICCID or the old alias and type the new alias in the field:

8935711001000030368		
Account IoT Techange Name ICCID 8935711	O	
8935711001000030368		

Hover and then Click SIM Alias Field to Change Alias Name

3. Press Enter.

The alias is generated. When you close the SIM Info page, the alias appears under the ICCID number in the ICCID column, as described above.

Show SIM Details

The Details action is available for:

o Single SIMs from the SIMs table

>

The Details action shows the details of a single SIM in the SIMs table.

To do the Details action:

• Invoke Details as described above.

The SIMs Info page opens for the selected SIM.

3.7 Move SIM

Use the Move SIM action to transfer one or more SIMs from your account to a sub-account. The move actions are described in this table.

Move SIM(s)	Description	
Single SIM in the SIMs Table	Select a single SIM in the SIMs table and move to a sub-account.	
Multiple SIMs in the SIMs Table	Select multiple SIMs in the SIMs table and move to a sub- account	
Single SIM from the SIM Info page	the SIM info page and move to sub-account.	

A screen capture of the Move SIM to Account dialog box is shown here.

Move SIM to account			
Select Sub-Account * Secure Industries		•	
	CANCEL	SUBMIT	

NOTE: The Move action is applicable only for SIMs in the same account.

3.7.1 Move Single SIM to Sub -account

To move a SIM to a sub-account, do these steps:

- 1. Select **SIM Management** from the sidebar menu. The SIMs table is displayed.
- 2. Select a SIM row and click the Actions icon.
- 3. Select Move to display the Move SIM to Account dialog box.
- 4. Click the Select Sub-account list box.

5. Select a target sub-account and click **Submit.** The SIM is moved to the select subaccount.

TIP: Alternativly you can move a single SIM directly from the SIM Info page. Click a SIM to display the SIM Info page and select Move from the Actions icon located at the top of the page.

3.7.2 Move Multiple SIMs to Sub -account

To move multiple SIMs to a sub-account, do these steps:

- 1. Select **SIM Management** from the sidebar menu. The SIMs table is displayed.
- 2. Check multiple SIM rows to select the relevant SIMS displayed in the table.
- 3. Click the **Move** button located in the table header. The Move SIM to Account dialog box is dislpayed.
- 4. Click the **Select Sub-account** list box.
- 5. Select a target sub-account and click **Submit**. The selected SIMs are moved to the select sub-account.

Reload SIM

The Reload SIM action is available for:

- Single SIMs from the SIMs table
- Multiple SIMs from the SIMs table
- SIM on the SIM Info page

The Reload SIM action is performed on a SIM that may experience registration and/or connectivity issues with the current connected mobile network.

Click Reload SIM to manually send a cellular network "Cancel Location" command to the SIM. The SIM will try to reregister to the mobile network.

To Reload a SIM:

• Invoke the Reload SIM action, as described above.

The SIM location is cancelled. The next time the SIM performs any action, its location is restored.

Assign Labels

The Labels action is available for:

• Single SIMs from the SIMs table

- Multiple SIMs from the SIMs table
- SIM on the SIM Info page:
 - \circ Using the Action menu
 - $\,\circ\,$ Directly from the Labels Info area on the SIM Info page

SIM Labelling allows an operator to tag SIMs with labels for these purposes:

- Grouping SIMs with common parameters
- Filtering SIMs
- o Actions or bulk operations on SIMs with common label

Guidelines

Labels are assigned to SIMs in a single account. However, the label is not unique to that account and the same label can be applied to SIMs in a different account.

The SIM label is case-sensitive.

The SIM label structure is limited to:

- A single word (no spaces allowed)
- Alphanumeric characters only (a, b, c, 0, 1, 2, etc.)
- Special characters are not allowed
- Underlines between characters are not allowed

You can also create Labels using Settings > Labels. After you create them there, you must return to the SIMs module to assign them to SIMs.

To Label a SIM from the Action menus:

1. Invoke the Labels action, as described above.

The SIMs Label dialog appears:

Q Search	
AVTest	

SIMS Label Dialog (showing one created Label)

Note that when you open the SIMs Label dialog, all existing labels appear in the dialog with a checkbox in one of these states:

- \circ : The (existing) label is not assigned to any selected SIM
- . The (existing) label is assigned to all selected SIMs
- • The (existing) label is assigned to only some of the selected SIMs
- 2. Do one of the following:
- o Existing Label: Type the label name in the Search field to find the label and then

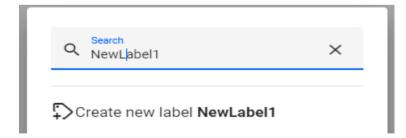
click the existing label checkbox several times until the **check box** icon appears in the check box:

Q Search test	×
🗌 test	

The label is assigned to all selected SIMs (when you click Apply).

The Associated SIMs column in the Labels table at Settings > Labels is updated with the newly associated SIMs.

 New Label: Type the name of the new label in the Search field and select the new label:



The new label(s) is added to the Labels table (when you click Apply) at Settings > Labels.

3. Click Apply and the label(s) is assigned to the SIMs you selected.

To Remove Labels from a SIM using the Action menus:

1. Invoke the Labels action, as described above:

The SIMs Label dialog appears showing the Labels assigned to the SIM.

- The icon appears in the checkbox of each label assigned to the selected SIM(s) when:
 - $\,\circ\,$ You invoke Labels from a single SIM row (using the $\,$ icon)
 - The label is assigned to all the SIMs you selected (using the checkboxes on the left side of the SIM rows)
- The icon appears in the checkbox of each label assigned to the selected SIM(s) when:
 - The label is assigned to only some of the SIMs you selected (using the checkboxes on the left side of the SIM rows)
- 2. Click the check box of the label(s) you want to remove from the SIMs one or



more times to toggle between the three options, (, -,) until the check box is

3. Click Apply.

empty ().

The SIM is removed from the Associated SIMs column in the Labels table at Settings > Labels

To Add/Remove a Label from a SIM from the Labels Info area in the SIMs Info Page

You can add or remove a label to or from a single SIM (the one selected from the SIMs table) from the SIM Info page.

1. From the SIMs table, click on the table row containing the SIM or select a SIM from a Search action result list.

The SIM Info page appears.

SIMS > TRAVEL 2 Travel 2 Active					i
Account IoT Technologies		IMEI 3565691075129023 IP Address 100.64.108	.243 Active IMSI 278773000004355 MSISDN 356	4000204355 -	0;
Billing plan FloLive - default rate y Type: Renewal Interval:	Dian TRATE MONTHLY	0 SMS	হি 0 MB	()	Connectivity info Connect Network Concerts Network Concerts Network Concerts Network Concerts Concer
		Current SMS usage	Current data usage	Fixed Monthly charges Month Year	Labels

SIM Info Page Showing Labels Panel

2. Under the Labels panel, click + ADD NEW

The SIMs label dialog appears.

• Existing Label: Type the label name in the Search field and select the existing label check box:

Q Search	
□ AVTest	-

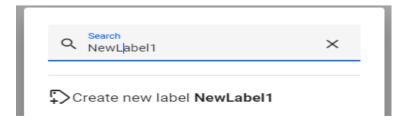
Note that when you open the SIMs Label dialog, all existing labels appear in the dialog with a checkbox in one of these states:

• : The (existing) label is not assigned to the SIM



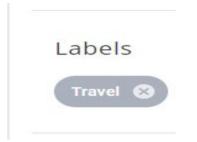
The Associated SIMs column in the Labels table at Settings > Labelsis updated with the newly associated SIM.

• New Label: Type the name of the new label in the Search field and select the new label:



The new label is added to the Labels table (when you click Apply) at Settings > Labels.

3. To Remove a label(s) from the SIM, the Labels Panel on the SIM Info page and click the on the label: .



The SIM is removed from the Associated SIMs column in the Labels table at Settings > Labels

3.7.3 Activate / Suspend SIM

You can activate or suspend a SIM based on its current status, such as activating a suspended SIM or suspending an active one. These actions are available both for individual and multiple SIMs. A description of the key concepts is provided in this table.

Term/Concept	Description
Activate	Action to make a suspended SIM active again.
Suspend	Action to temporarily deactivate an active SIM.
Multiple SIMs	When selecting multiple SIMs, the action applies to all, ignoring the current status of each.
SIM Info Page	A detailed view of a specific SIM, from which you can invoke actions directly.

3.7.4 Single SIM Activation / Suspension

To activate or suspend a single SIM, do these steps:

- 1. Navigate to the SIMs Table.
- 2. Select the SIM you wish to activate or suspend.
- 3. Perform the relevant action:
 - a. Click the Activate icon to activate a suspended SIM.
 - b. Click the **Suspend** option from the Action menu to suspend an active SIM.

3.7.5 Multiple SIM Activation / Suspension

To activate or suspend multiple SIMS, do these steps:

- 1. Navigate to the SIMs table.
- 2. Select multiple SIMs.
- 3. Invoke the **Activate** or **Suspend** action.

NOTE: All selected SIMs will be activated or suspended, regardless of the current status of each SIM.

3.7.6 Activate/Suspend from SIM Info Page

To activate or suspend from SIM Info page, do these steps:

- 1. Open the SIM Info page for the relevant SIM.
- 2. Use the **Activate** or **Suspend** action available on the page.

Send SMS

The Send SMS action is available for:

- Single SIMs from the SIMs table
- SIM on the SIM Info page

To do the Send SMS action:

1. Invoke the Send SMS action, as described above.

The Send SMS dialog appears.

Send SMS		×
Message *		B., *
	CANCEL	SUBWIT

Send SMS

- 2. Type your SMS message in the Message field.
- 3. Click the Encoding button on the right and select the desired message encoding, GSM-7 or UCS2
- 4. Click Submit to send the message.

3.8 Getting SIM Info

SIM info is collected in the SIM Info page, which provides detailed SIM information. The SIM Info page contains 4 tabs.

o General Info Area

- o SIM Info Tab
- o SIM Profile Tab
- Signaling Events Tab
- Manage Plans Tab

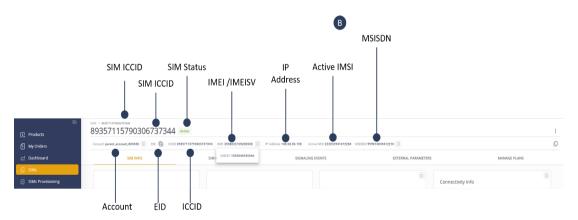
A screen capture of the SIMs Info page is shown here.



3.9 SIM Info Header

The SIM Info header contains detailed information for a selected SIM.

An example of the SIM Info header is shown here.



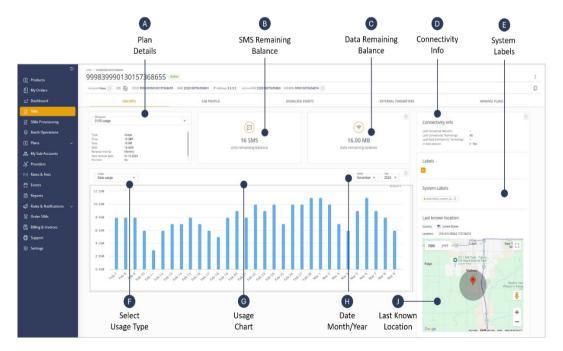
A description of the SIM Info header is provided in this table.

Field Name	Description
SIM ICCID	The unique identifier for each SIM card.
Account Name	The name of the account associated with the SIM card.

Field Name	Description
SIM Alias	A user-defined name for the SIM card.
SIM Status	The current status of the SIM card (e.g., active or suspended).
IMEI /IMEISV	The International Mobile Equipment Identity number of the device (including software version) using the SIM.
IP Address	the last IP address allocated to the SIM from the core Packet Gateway (PGW).
Active SIM	Indicates the last activated IMSI/MSISDN.
IMSI	The IMSI uniquely identifies the SIM card within the mobile network. The SIM must be active to view the IMSI/MSISDN pairings. For eUICC SIMs, the IMSI/MSISDN pairings are shown only for the currently active profile
MSISDN	The Mobile Station International Subscriber Directory Number, which is the phone number associated with the SIM card
IMSI Provider Alias	The IMSI Provider name.
SIM Actions	Actions that can be performed on the SIM card, such as activation, deactivation, or modification.
Copy to clipboard	An option to copy the displayed SIM information to the clipboard.

3.10 SIM Info Tab

The SIM Info tab provides comprehensive details about the activities and status for a selected SIM.



An example screen capture of the SIM Info panels is shown here.

A description of the SIM Info panels is provided in this table.

Panel Name	Description
Billing Plan	Displays relevant details when you select a plan from the drop-down list of all plans attached to the SIM.
SMS Remaining Balance	The number of SMS messages left for a SIM to use. It shows how much is still available from the total limit before it runs out. NOTE: The term "Remaining Balance" is used exclusively for Prepaid Plans only (e.g. Usage and Money). When a Rate Plan is displayed the term "Current Usage" is displayed.
Data Remaining Balance	The amount of data (megabytes) left for a SIM to use. It shows how much is still available from the total limit before it runs out. NOTE: The term "Remaining Balance" is used exclusively for Prepaid Plans only (e.g. Usage and Money). When a Rate Plan is displayed the term "Current Usage" is displayed.
Connectivity Info	 Connectivity info includes these details: Last Connected Network: Displays the local network name to which the SIM is currently connected. If the SIM is not connected, it shows the name of the last connected network. Last Connectivity Technology: Indicates the SIM's registration Radio Access Technology (RAT), such as 3G, 4G, or 5G. Last Data Connectivity Technology: Shows the RAT type for the SIM's data session, such as 3G, 4G, or 5G. If the SIM is currently in a data session, hover the panel to display the last date and time the SIM was connected to a data session.
System Labels	Displays the the labels assigned to the selected SIM. You can click +Add New to add a new label.
Select Usage Type	Select the type of information (SMS or Data) to show in the timeline chart.

Panel Name	Description
Usage Chart	Displays the daily usage of SMS or Data for the specified month and year.
Date (Month/Year)	Select a month and year to display SMS or Data in the Usage Chart.
Last Known Location	 Country: Displays the name of the last country used by the SIM. Last SIM Location: Shows the SIM's last network location (MCC, MNC, LAC, Cell ID) and its last connected location on a map. This information is based on the cellular network and may vary in accuracy due to antenna information. NOTE: Several external factors can influence the accuracy of the last connected location, including (a) the device's receiver and location, (b) transmission interference from atmospheric sources, and (c) obstruction or reflection of location services from nearby structures. Additionally, as geolocation data is crowd-sourced, it may sometimes contain unintentional deviations.

3.11 SIM Profile

The SIM Profile tab displays the SIM card multi IMSI profile settings.

3.11.1 Regular UICC SIM (single ICCID profile)

A regular UICC SIM has one ICCID profile and optionally multi IMSIs, which appear as in the following example:

count FloLive ICCID 24558808030358500	000 IMEI - IP Address	- Active IMSI 54861425413577	MSISDN 17812	21037 ③		
SIM INFO SIM PROFILE	SIGNALING EVENTS	EXTERNAL PARAMETERS				
IM profile						
CCID 24558808030358500000 Active	IMSI	MSISDN	LOCATION	PLMN	SMSC	APN
cLive	154321791938221	154325412152111	Canada	1092837649	12352345	iot-apn2
	98237640982345	154325412152111	Canada	543567F54547 ()	483830340029	iot-apn
	61239470928	154325412152111	Canada	345320345034	2384720398	iot-apn3
				(1000071(000	0192837401	iot-apn4
	23978401293864	154325412152111	Canada	619238746982	019203/401	for upite

3.11.2 UICC SIM Card

The UICC SIM card can host up to 10 IMSI profiles. Each row indicates a single IMSI profile.

3.11.3 eUICC SIM Profile

An eUICC SIM has multiple ICCID profiles; the following example illustrates how these profiles may appear in the SIM Profile tab (the Active profile is always listed first):

15588080303585(Active	EI - IP Address - Active IMSI	54861425413577	MSISDN 1781221037 ()		
SIM INFO SIM PROFILE	SIGNALING EVENTS	EXTERNAL PARAMETERS				
IM profile						
CCID 24558808030358500000 Active	IMSI	MSISDN	LOCATION	PLMN	SMSC	APN
Telenor	154321791938221	154325412152111	Canada	1092837649	12352345	iot-apn2
CCID 45198082038878100000	98237640982345	154325412152111	Canada	543567F54547 (j)	483830340029	iot-apn
	61239470928	154325412152111	Canada	345320345034	2384720398	iot-apn3
CCID 94883877602497000000 /F_Turkey	23978401293864	154325412152111	Canada	619238746982	0192837401	iot-apn4

In a multi ICCID profile display, the data is shown for each profile by clicking the arrow (>) next to the ICCID number. The first profile is activated by default when the SIM Profile tab is first displayed. Each ICCID profile can host up to 10 **IMSI** profiles, the same as a UICC SIM. Each row indicates a single IMSI profile.

A description of the SIM card IMSI profile attributes is provided in this table.

Attribute	Description
IMSI	IMSI number including provider alias name.
MSISDN	SIM MSISDN number
Location	The SIM location (region or country) in which this profile is to be used
PLMN	Public Land Mobile Network (PLMN), determines the preferred local operator that the SIM will try to connect to
SMSC	SIM SMSC number
APN	SIM APN

3.12 View Real/ Mapped IMSIs

floLIVE User Manual

Users can view both Real and Mapped IMSIs on the SIM profile page, thereby reducing confusion between the two.

The types of IMSIs are described in this table.

Туре	Description					
Real IMSI	This is the actual IMSI assigned to the SIM card by the mobile network operator. It is a unique identifier that is used to identify the subscriber in the mobile network.					
Mapped IMSI	This is a representation of the real IMSI used for integration with different systems, anonymization, or to provide a user-friendly identifier while maintaining a relationship with real IMSIs without exposing sensitive information.					

To view the Real and Mapped IMSIs, do these steps:

- 1. Select **SIMs** from the sidebar menu.
- 2. Scroll the SIMs table and click a SIM to display the **SIM Details page**.
- 3. Select the **SIM Profile** tab.

A screen capture of the Real and Mapped SIMs details is shown here.

Signaling Events Tab

The SIM Signaling Events tab displays the history of core-network signaling events generated by the selected SIM.

The Signaling Events tab display is identical to that of the Events Module. The content of the Signaling Events tab is for a single SIM selected from the SIMs table. In contrast, the Events Module provides an aggregate view for all SIMs.

NOTE: For more information about signaling events refer to the "Events Module" on page 201

External Parameters Tab

The External Parameters tab is used to set and assign External Parameter values to a SIMtype External Parameter.

NOTE: For information about how to set and assign the SIM External Parameter values refer to "Assign External Parameter Values" on page 292.

3.12.1 Manage Plans

The Manage Plans tab is used to attach Multiple Plans to a SIM; the plans are attached one at a time to the SIM. You can also detach plans from a SIM, one at a time, from this tab. When you attach multiple plans to a SIM, the plans are prioritized. When a SIM is first attached to a Billing Plan, it has the lowest priority; then you can change the priority after you attach the Billing Plan. The priority order of the Billing Plans attached to a SIM enables tiered pricing. You can assign different Billing Plans to different SIMs in the same account. In other words, you can set different rates for different SIMs in the same account.

A screen capture of the Manage Plans tab is shown here:

Plans Add, chang	Plans CAS Add plans. The added plan is automatically added to the lowest priority, which can be changed by dragging and dropping it above.										
1	MRC for Smart Ltd.										
1	2 2000/8 + 20 SM/S EU	ß									
+ pla											

Note: You can attach up to four plans per SIM.

To attach Plans to a SIM from the Manage Plans tab:

- 1. Go to the SIMs Info page and click **Manage Plans**. The Manage Plans tab is displayed. The Manage Plans tab shows the Billing Plan(s) that are now attached to the SIM.
- 2. Click + Plan A to add a row showing the Sell Plan field. This indicates that you can only attach a Sell Plan to the SIM.
- 3. Click the **Sell Plan** field. A list of available plans appears.
- 4. Select a plan. The selected plan now appears in the Sell Plan field.
- 6. Click **Apply**. The plan is attached to the SIM in lowest priority.

To change the priority of the plans:

 Change the priority of the plans shown by drag-and-drop of each one into the desired position. The list is in descending priority order with the highest priority plan at the top.

To remove a plan from the list and then detach it from the SIM:

- 1. Select the plan you want to remove and then detach.
- 2. Click the **Delete** icon at the end of the table row with the plan you want to remove and detach from the SIM.

- 3. Click Apply to confirm the delete operation.
- 4. To detach the plan from the SIM, click Apply.

3.13 How to Lock SIM to Device

This feature enables users to lock and unlock a SIM based on the associated International Mobile Equipment Identity (IMEI). When the lock function is enabled, the SIM card can only be used with a specific device. If the SIM card is used for a different device, the system automatically suspends the relevant subscriber.

The SIM Lock feature supports these capabilities:

- Lock SIM to IMEI: Upon initial detection of an IMEI associated with a SIM card, the system automatically locks the SIM to that device. This ensures that the SIM is tied to a specific device, enhancing security and preventing unauthorized usage.
- **Unlock SIM**: Customers can unlock the SIM and transfer it to a new device. When the system detects a new IMEI associated with the SIM, it "unpairs" the previous device and automatically locks the SIM to the new device.
- SIM Reset: Customers can reset locked SIM cards from the portal. This functionality provides users with autonomy over their SIM cards, enabling them to manage locked status as needed.

IMPORTANT: Locked SIMs are prevented from accessing any service, including SMS, voice, and data. This strict service restriction ensures that locked SIMs remain inactive until unlocked, maintaining security protocols.

3.13.1 Assign Lock Permission to Account

To enable a customer to lock a SIM to a device, you need to setup the customer account permissions.

To assign lock permission to an account do these steps:

- 1. Select My-Sub Account from the sidebar menu.
- 2. Scroll the table and click an account to display the Account Details page.
- 3. Check the Allow Customer to Lock SIM with a Device (IMEI) option.

Here is a screen capture of the account permission option.

SIM Table

		istomer to Lock SIM			
flo.	with	a Device (IMEI)			© ⑦ ◎ root@root •
Ex and Dashboard G SIMs SIMs Provisioning Batch Operations C Plans ↓ Any Sub-Accounts X Providers	D204 nerva Account Account	CONTACTS Account Mine* 0204 netya	ADDRESSES	BILLING & INVOICE Common* GBP	EXTERNAL PARAMETERS
 (+) Rates (+) Revents (+) Reports ↓ Rules & Notifications ↓ ↓ Order SIMs ↓ Billing & Invoices ↓ Settings 		VAT identification No Charge by Later* Charge by Later* Allow sustomer to attach SIMs to Buy Plans Allow customer to lock SIM with a device (IMEI) Hide connectivity rates Connectivity Service Provider Connectity Service Provider Connectivity Serv	in on behalf	Activity Indication* Network Registration	

3.13.2 Lock SIM to Device

To lock a SIM to device for a specific subscriber, do these steps:

- 1. Select **SIMs** from the sidebar menu.
- 2. Click the **Actions** option for a SIM listed in the table.
- 3. Select **Device Operations** to display the SIM lock dialog box.
- 4. Check the **Lock SIM with Device** option. The SIM will be locked paired to the first device it is detected on.
- 5. Click **Update** to lock SIM to device.

The system locks ("pairs") the subscriber to the first used IMEI. If the SIM is used in another IMEI (a different device) then the system suspends the subscriber.

Here is a screen capture of the SIM lock option.

Device C	Operations for SIM 999	83999013022483	584 X
	SIM LOCKING	RESETING	
~	not lock SIM with device SIM can be used on any device.		
	ck SIM with devices SIM will be locked (paired) to the first d	evice it is detected on.	
		CANCEL	UPDATE

3.13.3 Unlock SIM

To unlock a SIM for use on any device, do these steps:

- 1. Select **SIMs** from the sidebar menu.
- 2. Click the **Actions** option for a SIM listed in the table.
- 3. Select **Device Operations** to display the SIM lock dialog box.
- 4. Check the **Do Not Lock SIM with Device** option. The SIM can be used on any device.
- 5. Click **Update** to lock SIM to device.

Here is a screen capture of the SIM lock and unlock dialog box.

					A Lock SIMs Device		B ock SI o Dev								
≕r ! Products] My Orders	CANS SIMs 70015 SDAte													C 899	
Dashboard		ED	PROFILE ALIAS	ACCOUNT	CTIVE MS	ACTIVE MSISEN	IN DATA SE	SSION L	AST CONNECTED	STATUS	SELLPLAN	BIY PLAN	ME	COUNTRY	
SIMs SIMs Provisioning	80257000013018761324		Profile 1	have 11.3	2220105374691425	000130150570205		2	024.02.13.09.54	Antine			3556032105280508	1 South Africa	
Batch Operations	89937113993125849831		Profile 1	perent_account_537794	22010000032954	999013016423324		2	024.02.26.07.26	Active	Automation floLive Defaul O		3556032100280308	E United States	
Plans ~	09337112980042018477		Profile 1	perent_account_72					-	Active	Automation floLive Defaul ()		8464250315744207		
My Sub-Accounts	99983899013070400995	0	Profile 1	lock SIM Signaling (evice Operations for	SIM 893571139	9312584	49851	× 2.0712	Suspended - locked SM	Automation - Flo Live Def., D		88399456678888	E United States	
Providers	093571195583574071		Profile 1	parent_account_81	SIM LOCKING		REAT	ING	8,14.24	Buspended	Automation floLive Defaul ()		3558032103280508	mi United States	
Rates & Fees	09357599013049589477		Profile 1	Have	Do not lock SIM with	h device			8.11.25	Baperded	Automation - Flo Live Del., O		2220108756508851	E United States	
Events	093579990130131064409		Profile 1	VAPIT 08.05.24	The SIM can be used on any	device.			9.09.05	suspended				E United States	
Reports	40376518691164300000		Profile 1	1803 perya	O Lock SIM with device	95	۲		6.04.31	Ruspended				E United States	
tules & Notifications 🔍	B935711601000608027		Profile 1	Fishes	The SIM will be locked (pairs	d) to the first device it is detec	ned on.		4.13:49	Active				🗮 United States	
Order SIMs	999839990130157368637		Profile 1	Have			CANCEL	UPDA	TE 8.1125	Active	FloLive default rate plan		2220108756598711	. United States	
illing & Invoices	09337999013049589473		Profile 1	Hava					8,11:25	Active	Automation - Flo Live Def., O		2220108756568811	E United States	
Support settings											Rat	vs per page:	15 × 1+1	6 ef 78016 🧹	

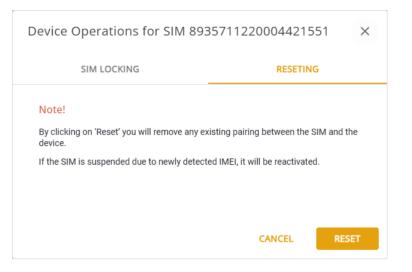
3.13.4 Reset SIM

When you reset a SIM you remove any existing pairing between the SIM and the device. If the SIM is suspended, it will be reactivated on detection of first IMEI.

To reset a SIM, do these steps:

- 1. Select **SIMs** from the sidebar menu.
- 2. Click the Actions option for a SIM listed in the table.
- 3. Select Device Operations to display the SIM lock dialog box.
- 4. Select the **Resetting** tab.
- 5. Click Reset to lock SIM to device.

Here is a screen capture of the SIM Reset dialog box.



3.13.5 View SIM Lock Status

To view the status (locked or unlocked) for a specific SIM, do these steps:

- 1. Select **SIMs** from the sidebar menu.
- 2. Click **Customize Columns** and select **Status** to display in the SIMs table.
- 3. Scroll the **Status** table column to view which SIMs are locked.

Here is a screen capture of the SIM locked status.

flo.															Q 🕐 🕐 🔘 🕅	oot@root clive
<u>써</u> Dashboard	SIMs														(180	PORT 🗮
긁 SIMs	4 SIMs														Ŧ	ш
SIMs Provisioning	IMS Provisioning															
Batch Operations											Ciear All					
្ញិ Plans 🗸 🗸	C KCC0	ED	PROFILE ALIAS	MSISON	ACCOUNT	IMSI	STATUS	SELL PLAN	BUY PLAN	IMB	COUNTRY	DATA Monthly usage	SMS Monthly usage	LABELS	SYSTEM LABELS	
My Sub-Accounts	8935711220004421619	14	Profile 1		IMEI LOCK	-	Active	2	-	-		2	-			÷
🖇 Providers	89357999013072833456	1	Profile 1	9990130133963996	IMEI LOOK	222010829356900	Active	2	34) -	1234511111111	I Ireland	-	2		• automation_system_la ()	1
-) Rates	8935711220004355130	-	Profile 1	999012005245175	IMEI LOCK	901800011645175	Active	3	-	11123334444444	United States	-	-			1
🖯 Events	8935711220004421551	-	Profile 1	999012005271657	IMEI LOCK	901800011671657	Suspended - locked SM	4	-	661800011671657	united States	2				1
Reports											-					

You can also view the locked/unlocked status in the SIM Details page.

		SIM is Lo	ocked to Device				
Ξ.	DMS + ##4350000064++35842						
과 Dashboard	89425030000	041135882	uspended - locked SIM				1
🔂 SIMS	Account IMEI Lock Demo Accou	unt 🕕 ED 🔞 ICCID 85	425030000041135882 IMEI 8090223355806444 IP	Address 100.70.175.18 Active IMSI 084925300000656222	More >		0
SIMs Provisioning	SIM IN	e0.	SIM PROFILE	SIGNALING EVENTS	EXTERNAL PARAMETERS	MANAGE PLANS	
Batch Operations			SIMPROFILE	SIGNICITY ETERTS	EALERANG PROPORTIES	minnus runus	
🛐 Plans 🗸 🗸	Brilling plan				0	Connectivity info	0
운 My Sub-Accounts	0204 money propro FEP	-				Last Connectivity Into	
🖌 Providers	Type: Price:	MONEY 30.0 GBP		(*)		Connectivity technology: 10 In data session: • Yes	
(··) Rates	Reneval Interval: Next Reneval Date:	Monthly -	0 SMS Current SMS usage	0 MB Current data usage	0 Fixed Monthly charges		
	Expiration date:	-				Labels	

4 SIMs Provisioning

Guidelines

This function is available only for Mobile Network Operators (MNO) that are managing and provisioning SIMs by themselves.

A custom output file is used to provision the SIMs. You can download and view a sample of the output file structure in two formats:

- *.outp that you can import directly into and read from a text editor such as Notepad++
- *.xslx, an Excel file that translates the Output Variables of the *.outp file into Excel file format for easy viewing

The MNO operator can provision SIMs only to its own root account and to no other. Only after the SIM is provisioned can the MNO operator allocate that SIM to one of its child accounts. The provisioned SIMs also appear in the MNO's parent account as already allocated to the MNO.

floLIVE does not validate the SIM IDs, such as IMSIs, once provisioning is complete.

Downloading Sample Output Files

To download sample output files:

1. From the Navigation Bar, click SIMs Provisioning.

The SIMs Provisioning page appears:

SIMs Provisioning							🛓 SAMPLE	LUPLOAD
571 Items							Q =	ш¢
FILE NAME	UPLOAD DATE 🔶	LAST UPDATED	QUANTITY	FREE RESOURCES	ACTION TYPE	STATUS	TARGET ACCOUNT	
automation-PROVISIONING-File4493	02.10.2023	02.10.2023	20	20	G Provisioning	Ready	floLive	1

SIMs Provisioning Page



The Sample options appear:

SAMPLE
Provisioning file xlsx
O Provisioning file outp
O Deprovisioning file xlsx
Apply

3. Select the Provisioning file format you want to download, ***.xlsx** or ***.outp**, and click **Apply**.

The Provisioning file sample is downloaded to your file system.

Viewing Sample Output Files

To view sample output files:

1. View the ***.xlsx** file in Excel.

The file looks like this:

4	Α	В	С	D	E	F	G	Н	1	J	К	L	М	N	0
1	Count	KOD	PIN1	PUK1	PIN2	PUK2	ADM1	KIC1	KID1	TLSKEY	KI	OPC	SYSTEM_LABELS	MSISDN1	IMSI1
2	1	1234567890	1234	12345678	1234	12345678	1234567890ABC	1234567890ABC	1234567890AB	1234567890A8	1234567890ABC	1234567890ABC	0	1234567890	1234557890
3	1	1234567890	1234	12345678	1234	12345678	1234567890ABC	1234567890ABC	1234557890AB	1234567890A8	1234567890ABC	1234567890ABC	0	1234567890	1234567890

Sample Output File: Excel

2. View the ***.outp** file by importing it into a text editor, such as Notepad++.

The file looks like this:

```
product: 000486
hsm id: 2
ota wrap mode: raw
tk_ota_id: 12
tk net id: 12
tag_apn: 09676967736B792D3032
tag_smsc: 099193338548000080F7FFFF
ef hpplmn: 05
ef_fplmn: FFFFFFFFFFFFFFFFFFFFFFFFF
ef_ehplmn: FFFFFFFFFFFFFFFFFFFFFFFFF
single: 1
hlr id: 1
smsc id: 16
bip id: 1
create sub: 1
*******
* INPUT VARIABLES DESCRIPTION
*******
var_in_list:
iccid: 1234567890
imsil: 1234567890
msisdn1: 1234567890
******
* OUTPUT VARIABLES
**********
var out:COUNT,ICCID,PIN1,PUK1,PIN2,PUK2,ADM1,KIC1,KID1,TLSKEY,IMSI1,IMSI MAP1,MSISDN1,KI1,OPC1
1,1234567890,1234,12345678,1234,12345678,,,,,1234567890,1234567890,1234567890,1234567890ABC,1234567890ABC
2,1234567890,1234,12345678,1234,12345678,,,,,1234567890,1234567890,1234567890,1234567890,1234567890ABC,1234567890ABC
```

Sample Output File: *.outp

The SIM is provisioned using the Output Variables at the bottom of the output file where the SIM parameters appear in **csv** format.

Note: The system recognizes only the **IMSI_Map** values, not the **IMSI** values. For example, there is an **IMSI1** value and an **IMSI_Map1** value. The system takes only the **IMSI_Map1** value and that is the value that appears under **IMSI1** column in the Excel (*.xsix) file.

Provisioning SIMs

To provision SIMs:

- 1. Build your output file using the sample files as a guide.
- 2. From the SIMs Provisioning, click dupload

The Upload SIMs list dialog appears:

1979-19 State	IIPI NAN NATE	1 ANT INVIA	nen.
Upload SI	Ms list		×
	Drag and drop file or click to browse for	es here files	
		CANCEL	UPLOAD

Upload SIMs list Dialog

3. Browse or drag the output file into the Drag and drop files here field and click



When you drop or select the output file, the system automatically parses it and returns a Success message or an Error message if the file is invalid. For example:

Upload SIMs list		×
MnoDemoProvisio WAS ATTAC	oningFromSubac HED SUCCESSFI	p

Upload SIMs List Output File Load Confirmation

When the output file is uploaded, the file appears in the SIMs Provisioning table with a **Ready** status, indicating that the SIM or SIMs in the output file can now be provisioned. For example:

sins provisioning					🛓 SAMPLE 🍰	UPLOAD
2 items					Q = II	φ
FILE NAME	UPLOAD DATE	LAST UPDATED	QUANTITY	FREE RESOURCES	STATUS	
MnoDemoProvisioningFromSubaccount	19.09.2023	19.09.2023	3	2	Ready	:
ilaiTestRootToMno13_09_v2	13.09.2023	13.09.2023	3	0	Provisioned	:

Uploaded Output File with Ready Status in SIMs Provisioning Table

Note the Free Resources column in the SIMs Provisioning table. The value indicates how many SIMs in the output file remain available for provisioning.

4. Click on a table row with a **Ready** status.

The Resources table for that file appears; the table lists all resources (ICCID/EID) uploaded with the output file with status Ready (ready to be provisioned).

Upload 0 19.09.20			Quantity 3				
3 Items	0 Selected						Q
In Pro	gress 0 Timeout	0 Failure 0 Fatal Failu	re 0 Invalid Data 0 U	Inauthorized 0 Entity Locked 0 Provisioned 0	leady 3		
	EID	ICCID	R	IMSI	MSISDN	STATUS	
		8935711266602620016		310266667654336 + 1	555666456806 + 1	Ready	
		8935711266602620017		310266667654337 + 1	555666456807 + 1	Ready	
		8935711266602620018		310266667654338 + 1	555666456808 + 1	Ready	

Uploaded Output File SIM Resources Table

5. Select one or more SIM resources using the check boxes on the left of the rows, for example.

Upload 0 19.09.2			Quantity 3			
3 items	1 Selected			FUL		ORT
In Pro	gress 0 Timeout 0	Failure 0 Fatal Failure 0	Invalid Data 0 Unauthorized 0 Entity Locked 0 Provisioned 0 Ready			
	EID	ICCID	IMSI	MSISDN	STATUS	
		8935711266602620016	310266667654336 + 1	555666456806 + 1	Ready	:
		8935711266602620017	310266667654337 + 1	555666456807 + 1	Ready	E
		8935711266602620018	310266667654338 +1	555666456808 +1	Ready	

Selected Resource with Ready Status from SIM Resources Table

The Resources table for that file appears; the table lists all resources (ICCID/EID) uploaded with the output file with status Ready (ready to be provisioned).

6. Click BSS PROVISION .

A confirmation query appears.

SIM Provisioning	×
You have pressed the Provision bu you want to continue?	tton. Are you sure
NO	YES

SIM Provisioning Confirmation Query

7. Click Yes.

The Provisioning process begins and the SIM Resource or Resources you selected appear in the SIM Resources table with status **In Progress**.

When Provisioning is completed, the SIM appears in the SIMs Table. Use the Search SIMs table to find the SIM. You can now perform all SIM Actions, such Attaching Plans.

floLIVE does not validate the SIM IDs, such as IMSIs, once provisioning is complete.

The SIMs Resource(s) that has been provisioned appears in the Resources table with status **Provisioned**.

8. Return to the SIMs Provisioning table showing the output file name.

Notice the Free Resources column now shows the number of SIMs remaining that have not been provisioned. So if you provisioned one of three resources only, the Free Resources column shows the value **2**. If you provisioned all resources, the Free Resources column shows the value **0**.

If there are Free Resources available, the Output File name appears with the status **Ready**.

If all resources in the Output File have been provisioned, the file name appears with status **Provisioned**.

If there is a failure, the status is **Failure**. In case of failure, contact **Customer Support**.

5 Batch Operations

The batch operation module enables users to perform and manage SIM actions for a large number of SIMs including tasks such as activating 25000 SIMs or transferring 25000 SIMs to a sub-account. These operations are carried out asynchronously by the system. Batch operations are managed by uploading a CSV file. This file identifies the required operation, and the SIMs targeted for these actions. The CSV file is structured with the comma (,) character serving as a delimiter between the CSV fields—field1,field2,field3. The initial line of the CSV file acts as a Header and defines the fields that must be included in the CSV file for each SIM (subscriber) action performed within the selected batch operation. Subsequent lines correspond to individual subscriber actions. The batch operation file uses system internal identities, UUIDs, to designate SIMs and other system entities such as plans, accounts, and statuses.

5.1 Upload New Batch File

To create a new batch operation, do these steps:

- 1. Export the SIMs Table Contents to a CSV File.
- 2. Verify that the file format and all entities are valid.
- 3. Type a name in the **Batch Name** field.
- 4. Click **Operation Type** to display the batch operation options.
- 5. Select a batch **Operation Type**.
- 6. Drag and drop a csv file to be uploaded.
- 7. Click **Upload** to complete upload external parameters.

TIP: You can choose when to execute the batch operation. The system executes the batch operation in small chunks, and you can track the batch operation progress.

NOTE: All information you need to build the batch CSV file can be obtained by exporting the SIMs Table Contents to a CSV File. For more infomration, refer to

5.2 Batch Operations List

The Batch Operations List contains all batch files that have been uploaded, both those not yet executed and those that have been executed. Each batch file is executed directly from the list.

To view the Batch Operations List, do these steps:

1. Select **Batch Operation** on the navigation sidebar. The Batch Operations List is displayed.

2. Click a row of the Batch Operations List to display the Batch Records page.

The Batch Operations List appears.

SIM CENTER > BATCH OPERATION					
Batch Operations List			Q Search	≂ Filter III C	
BATCH NAME	BATCH DATE	OPERATION TYPE	QUANTITY	STATUS	
IOT add Label AVTest	07/02/2023	Add label to SIM	2	Success	1
IOT T add Alias name	05/02/2023	Set alias to SIM	4	Ready	Execute 🔟
IOT T - Add Travel Label	05/02/2023	Add label to SIM	4	Success	
Travel SIMs MoveSubAccount - 002	11/10/2022	Move SIM to sub-account	10	Ready	Execute III
Travel SIMs Activate - 001	11/10/2022	Set SIM Status	10	Ready	Execute

5.2.1 Batch Operations List

Attribute	Description	
Q _{Search}	 Click the Search field to search for a Batch Name in the list Case-sensitive Supports the "Contain method" where typing any part of the Batch Name will filter the list 	
- Filter	 Filter the Batch Operations List by these parameters (described below): (Batch) Name Batch Date Operation Type Quantity Status 	
	Customize columns: Show/Hide and Move	
C REFRESH	Refresh the Batch Operations List: useful after you hav performed any operation on the list or on one of the batc files to make sure the table is up to date	

Attribute	Description		
L UPLOAD	Click to upload a batch file needed to perform the batch operation		
Batch Name	The name you gave the batch operation when you uploaded the batch file; click the Batch Name (shown in hyperlink) to open detailed information on the batch operation		
Batch Date	The date that you uploaded the batch file on		
	The type of operation you designated when you uploaded the batch file, one of:		
	• Move SIM to sub-account		
	• Move SIM back to the Parent account		
	o Attach SIM to plan		
Operation Type	 Detach SIM from plan 		
	 Set SIM Status 		
	 Add label to SIM 		
	• Remove label from SIM		
	o Top-up		
	 Set alias to SIM 		
Quantity	The quantity of operations included in the uploaded batch file; each operation is a row in the CSV file		
	The status of the batch operation before and after executing it:		
Status	 Ready: the batch operation has not yet been executed and is Ready for execution 		
	 Success: the batch operation has been executed and was successful for all operations 		

Attribute	Description
	 Uploading in Progress Executed (partially failed): the batch operation has been executed, but some operations have failed Execution Failed: the batch operation has been executed and has completely failed (no operation was successfully completed) Invalid Data: The batch file has invalid data and is rejected Invalid Data (partially): The batch file has at least one entry that has invalid data and that entry fails; all other entities are valid, and the batch operation proceeds
Execute	Click this button to execute the batch operation • A batch operation with the status Success cannot be re-executed
ĪĪ	Click this button to delete the batch operation (if available) Note: You can delete a batch operation with status Success only from the Batch Records page of that batch operation.

2. Click a row of the Batch Operations List to retrieve detailed information on that batch operation.

The Batch Records page appears:

	64.4			
002853	0			
10 Records			Q ₁₀₀₅	II (2000
	and Larson (a) income () and			
SUCCESS:		708	:894E	
146-1494-49(34)		- 14		54.2
Harterations		ंख		Data 2
radar in tad intertimetal		14		(Sec.)
186 1841 W (1884)		- 14		Cears.
Dicking or particular		ist.		Carr
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The states of the		-14		Ust :

5.2.2 Batch Records Page

The Batch Records table shows detailed information of each operation in the batch file, one operation per row.

Attribute	Description		
\$	Refresh the Batch Operations List: useful after you have performed any operation on the list or on one of the batch files to make sure the table is up to date		
DELETE	Click to delete this batch name; you can delete any batch from this page, regardless of status		
Records Table	Contains all operations in the uploaded batch file. The Records Table can be filtered by a set of fixed parameters		
	Click the Search field in the Records table to search for a Subscriber (SIM) UUID		
Q _{Search}	• Case-sensitive		
	 Supports the "Contain method" where typing any part of the SIM UUID will filter the list 		
	Customize Records Table columns: Show/Hide and Move.		
C EXPORT	Export the table to a CSV file		

Batch Operations

Attribute	Description		
	RECORDS → Ready 0 Execution In Progress 0 Invalid Data 0 Authorization Failed 0 Entity Locked		
	Contains a fixed set of parameters used to filter the Records Table:		
	• Ready: Shows only those batch operations with status Ready.		
	• Execution in Progress: The batch operation is still underway.		
	 Invalid Data: Invalid data has been detected in the uploaded CSV file. 		
Records Band	 Authorization Failed: The batch operation has not been duly authorized and so cannot be executed. 		
	 Entity Locked: The batch operation includes an entity (such as a SIM) that has been locked and so cannot be accessed. 		
	• Execution Failed: Lists all failed operations.		
	 Timeout: The batch operation has Timed Out and could not be completed. 		
	• Success: The batch operation has succeeded.		
	Click a parameter or combination thereof to filter the Records Table by the selected parameter(s).		
Active Filter	FILTER BY: Execution In Progress 🛞		
Band	Appears only when a filter(s) has been activated in the Records Band.		
	Shows a filter(s) that is currently active; the Records table shows only those operations that comply with this filter parameter(s).		
Subscriber UUID	The SIM UUID of this operation in the batch execution.		
Status	The status of the batch operation before and after executing it:		

Attribute	Description	
	• Ready: the batch operation has not yet been executed and is Ready for execution.	
	 Success: the batch operation has been executed and was successful for all operations. 	
	 Partially Failed: the batch operation has been executed, but some operations have failed. 	
	• Executed Failed: the batch operation has been executed and has completely failed (no operation was successfully completed).	
	The system response to any status other than Ready or Success, generally a descriptive Error message:	
Response	 An operation with Ready status has no response, since it has not yet been executed. 	
	 An operation with Success status has no response since all operations were successful. 	
Execute	Click this button to execute a single operation in the batch file, that is, on one SIM only	
	Appears only for an eligible SIM.	

5.3 Move SIM to Sub-Account

You are moving SIMs from the account you are logged into now to your sub-accounts (one level). You can move SIMs by the batch operation from your account into any of your sub-accounts. This means you can send different SIMs to different sub-accounts at the same time. All SIMs that you move are in the account you are logged into; you cannot move SIMs from a sub-account to another sub-account.

The information you need to build the batch CSV file is:

- Sub-Account UUID
- o SIM UUID

The order of the columns in the CSV file for this batch operation is:

Sub-Account UUID, Sim UUID

The Move SIMs to Sub-Account batch file looks like this:

Sub Account UUID	Sim UUID	
f1589d0d-8a2e-4445-9965-a3be646ad999	8eaebd47-6a89-41d6-9f7a-64f3938c6999	

5.4 Move SIM to Parent Account

You can move SIMs from any of your sub-accounts (one level) back to your account in the same batch operation. This means you can send SIMs that are now located in different sub-accounts back to your Parent account at the same time; not all SIMs have to be in the same sub-account.

The information you need to build the batch CSV file is:

- Sub-Account UUID
- o ICCID
- Child SIM UUID (of the SIM in the sub-account from which you want to move it)
- SIM UUID (of the SIM in the Parent account)

The order of the columns in the CSV file for this batch operation is:

Sub-Account UUID, ICCID, Child SimUUID, Sim UUID

The Move SIM Back to the Parent Account batch file looks like this:

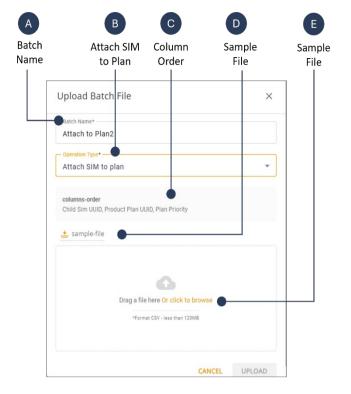
Sub Account UUID	ICCID	Child Sim UUID	Sim UUID
f5144932-49a5-4af8-9c69-24b6e60ac999	8.9357E+18	cb771401-5410-4d84-a6eb-0627f4111999	06a41507-e3a0-48a4-9200-8b934bdfb999

5.5 Attach SIM to Plan

You can attach Sell Plans to the SIMs if they are defined in one of your sub-accounts (Level 1). You can attach plans to SIMs from any of your sub-accounts at the same time using a batch operation.

NOTE: Not all SIMs have to be in the same sub-account

An example of the Upload Batch file dialog box is shown here.



The information you need to build the batch CSV file is:

- Child SIM UUID
- Product Plan UUID
- Plan Priority

TIP: Download the **Sample File** and fill in the information in each of the columns.

To attach a SIM to Plan, do these steps:

- 1. Select **Batch Operation** on the navigation sidebar.
- 2. Click **Upload** to display Upload Batch file dialog box.
- 3. Type a **Batch Name**.
- 4. Click the **Operation Type** field and select the **Attach SIM to Plan** option.
- 5. Drag & drop a CSV file to the dialog box or select the **Click to Browse** option.
- 6. Click **Upload** to display batch operation in table.
- 7. Select the batch operation in the table and click **Execute** to attach SIM to plan.

5.6 Detach SIM from Plan

You can detach Sell Plans from the SIMs if they defined in one of your sub-accounts (Level 1). You can detach plans from SIMs from any of your sub-accounts at the same time using the batch operation.

NOTE: Not all SIMs have to be in the same sub-account.

The information you need to build the batch CSV file is:

- o Child SIM UUID
- SIM Plan UUID (the subscriber plan instance UUID)

The order of the columns in the CSV file for this batch operation is:

o Child Sim UUID, SimPlan UUID

The Detach SIM from Plan batch file looks like this:

 Child Sim UUID
 Sim Plan UUID

 f5144932-49a5-4af8-9c69-24b6e60ac999
 cb771401-5410-4d84-a6eb-0627f4111999

5.7 Set SIM Status

You can change the status using the batch operation CSV files on SIMs that are in your account level and in any of your sub-accounts (one level).

• Range: ACTIVE, SUSPEND

You can change the status of any SIMs from any of your sub-accounts at the same time using the batch operation; not all SIMs have to be in the same sub-account levels.

The information you need to build the batch CSV file is:

- o SIM UUID
- o SIM Status
- New SIM Status (ACTIVE or SUSPEND)

The order of the columns in the CSV file for this batch operation is:

Sim UUID, Sim Status, New Sim Status

The Set SIM Status batch file looks like this:

Sim UUID	Sim Status	New Sim Status
98cdd42e-b468-4167-bbc9-ce2621f4e999	01b6416b-9239-45ae-838f-70fac0d4a6e7	SUSPEND
889a9468-adff-4af2-b495-1f17942de999	01b6416b-9239-45ae-838f-70fac0d4a6e7	SUSPEND

Set SIM Status Batch File: Example

5.8 Add Label to SIM

You can add a label using the batch operation CSV files to SIMs that are in your account level and in any of your sub-accounts for a single level.

NOTE: If you try to add a label that does not exist, the system skips that entry and continues the batch operation.

The information you need to build the batch CSV file is:

- o SIM UUID
- o Label Name

The order of the columns in the CSV file for this batch operation is:

o Sim UUID, Label Name

The Add Label to SIM batch file looks like this:

Sim UUID	Label Name
8eaebd47-6a89-41d6-9f7a-64f3938c6999	NewLabel

Download an example Add Label to SIM CSV batch file here.

5.9 Remove Label from SIM

You can remove a label using the batch operation CSV files from SIMs that are in your account level and in any of your sub-accounts (one level).

The information you need to build the batch CSV file is:

- o SIM UUID
- Label Name

The order of the columns in the CSV file for this batch operation is:

Sim UUID, Label Name

The Remove Label from SIM batch file looks like this:

	5
Sim UUID	Label Name
8eaebd47-6a89-41d6-9f7a-64f3938c6999	LabelName

5.10 Top Up

The guidelines for executing the Top Up batch operation are identical to those for topping up a single SIM.

TIP: Refer to "Top Up SIM" on page 41 to read these guidelines.

The information you need to build the batch CSV file is:

- Sub-Account UUID
- Child SIM UUID
- SIM Plan UUID
- \circ Cost: The amount of money to be charged for the Top Up

To perform a Top Up batch operation, do these steps:

- 1. Designate the Cost for all plan types. You can enter 0 for the Cost if you want the Top Up to be gratis.
- 2. Specify the **Cost Currency**. You must designate the Cost Currency even when you enter 0 for the Cost.
- 3. Enter the **Amount** of money to be added to the plan. The amount is exclusively for a Money-type plan. You can enter 0 for the Amount if you want the Top-Up to be gratis. However, if you enter 0, you still must fill in the Amount Currency. If the Subscriber Plan is a Usage-type plan, leave this parameter blank.
- 4. Specify the **Amount Currency**. If you have used the Amount parameter, the Amount Currency parameter is mandatory. If you entered 0 for the Amount, you must still designate the Amount Currency. If the Subscriber Plan is a Usage-type plan, leave this parameter blank.
- 5. For a Usage-type plan you must enter the **SMS** value. The SMS value is the number of SMSs to be added. If the Top Up does not apply to SMS, enter 0. If the Subscriber Plan is a Money-type plan, leave this parameter blank.
- 6. For a Usage-type plan you must enter the **Data** value to specify the volume of data to be added. If the Top Up does not apply to Data, enter 0. If the Subscriber Plan is a Money-type plan, leave this parameter blank. You must specify the Data

Units: Mandatory if the Data field is filled in (even if the Data value is 0); the range is KB, MB, GB.

The order of the columns in the CSV file for this batch operation is:

Sub-Account UUID,Child Sim UUID,Sim Plan UUID,Cost,Cost Currency,Amount,Amount Currency,SMS,Data,Data Units

The Top Up batch file looks like this:

 Sub Account UUID
 Child Sim UUID
 Sim Plan UUID
 Cost
 Cost Currency
 Amount
 Amount Currency
 SMS
 Data
 Data Units

 2bee4c56-68b9-4c44-86b5-fa5906aae9d7
 4043333b-c754-4c3f-b1e1-2cc8b19663a2
 35466784-d516-4602-b2b7-8118d26da8e3
 25
 EUR
 25
 10
 GB

Download: Click this link to download an example Top Up CSV batch file: <u>Top Up Batch File:</u> <u>Example</u>

5.11 Set Alias to SIM

You can set an alias to SIMs located in your main account and in one of your sub-accounts (level 1). You can set the alias of SIMs from any of your sub-accounts at the same time using the batch operation; not all SIMs have to be in the same sub-account.

The information you need to build the batch CSV file is:

- SIM UUID
- o Alias Name

The order of the columns in the CSV file for this batch operation is:

Sim UUID, Alias Name

The Set Alias to SIM batch file looks like this:

	Sim UUID	Alias Name
	8eaebd47-6a89-41d6-9f7a-64f3938c6999	Alias 1
	75538a8a-bde9-4edd-aa38-1f3784017999	Alias 2
Ī		

5.12 Add External Parameters

You can add, update and delete external parameters for a large number of entities such as sub accounts, billing plans and SIMs in a single operation. To perform a batch operation for external parameters, you need to upload a CSV (Comma-Separated Values) file containing the entity identifiers and corresponding external parameter values to be processed.

The information you need to build the batch CSV file is:

Identifier	Description
Entity Type	Type of entity (Account, SIM or Plan)
Entity ID	The UUID of the entity
Params Name	An external parameter name
Params Value	An external parameter value

The order of the columns in the CSV file for this batch operation is:

o Entity Type, Entity Id, Params Name, Params Value

Step-by- Step Procedure

To add external parameters, do these steps:

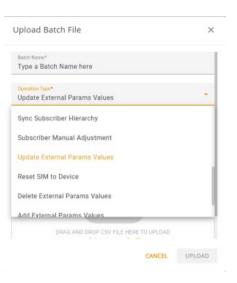
- 1. Select **Batch Operations** from the sidebar menu.
- 2. Click **Upload** to display the Upload Bach File dialog box.
- 3. Type a name in the **Batch Name** field.
- 4. Click **Operation Type** to display the batch operation options.
- 5. Select Update External Params Values.
- 6. Drag and drop a csv file to be uploaded.
- 7. Click **Upload** to complete upload external parameters.

An example screen capture of the Upload Batch File dialog box is shown here.

TIP: You can click **Sample File** in the dialog box to download an empty template with predefined fields and headers

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5.13 Delete External Parameters

You can delete external parameters for a large number of entities such as sub accounts, billing plans and SIMs in a single operation. To perform a batch operation for external parameters, you need to upload a CSV (Comma-Separated Values) file containing the entity identifiers and corresponding external parameter values to be processed.

The information you need to build the batch CSV file is:

Identifier	Description
Offer Entity Type	Type of Offer
Entity ID	The UUID of the entity
Params Name	An external parameter name

The order of the columns in the CSV file for this batch operation is:

• Offer Entity Type, Entity Id, Params Name

Step-by- Step Procedure

To delete external parameters, do these steps:

1. Select **Batch Operations** from the sidebar menu.

- 2. Click **Upload** to display the Upload Bach File dialog box.
- 3. Type a name in the **Batch Name** field.
- 4. Click **Operation Type** to display the batch operation options.
- 5. Select Delete External Params Values.
- 6. Drag and drop a csv file to be uploaded.
- 7. Click **Upload** to complete upload external parameters.

See below an example of the Attach SIM to Plan parameters. Download the CSV batch file <u>here</u>.

OFFEREntity Type	Entity Id	Params Name
SUBSCRIBER	c732d785-8d4e-4e7e-acc2-4999ea60f059	Test
SUBSCRIBER	5504e560-f839-4b70-96bf-7569607df6f7	Test

Upload Batch File

×

Operation Type*	
Delete External Params Values	•
Subscriber Manual Adjustment	
Update External Params Values	
Reset SIM to Device	
Delete External Params Values	
Add External Params Values	
Account Manual Adjustment	

5.13.1 Upload and Execute the Batch File

The batch operation is performed via a prepared CSV file containing the information needed to run the batch operation (described above for each operation).

To upload the batch file, do these steps:

- 1. Navigate to the **Batch Operations List** and click **Upload** to display the Upload Batch File dialog box.
- 2. Click **Batch Name** and name the batch operation that will be performed by the uploaded batch file.
- 3. Click **Operation Type** and select the batch operation:
 - a. Move SIM to sub-account
 - b. Attach SIM to plan
 - c. Set SIM Status
 - d. Remove label from SIM
 - e. Top-up
 - f. Detach SIM from plan
 - g. Add label to SIM
 - h. Set alias to SIM
 - i. Move SIM back to the parent account.

The dialog expands to show:

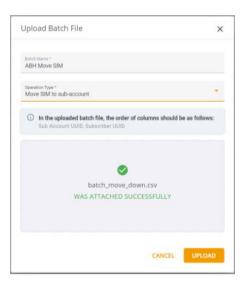
- A message appears under the Operation Type field that tells you the proper content and order of columns in the CSV file for the batch operation you selected.
- \circ A space to select the CSV file by drag-and-drop or by browsing.

Upload Batch File		×
Batch Name * ABH Move SIM		
Operation Type * Move SIM to sub-account		*
In the uploaded batch file Sub Account UUID, Subscr	e, the order of columns should iber UUID	be as follows:
	CSV FILE HERE TO	UPLOAD

When you drop or select the CSV file, the system automatically parses it and returns a Success message or an Error message if the file is invalid, for example:

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4. Click Upload.

The batch operation is created; the Upload Batch File dialog closes and the new batch operation appears in the Batch Operations List with Status Ready, for example:

SIM CENTER > BATCH OPERATION					
Batch Operations List			Q Search	∓ Filter III	C REFRESH
BATCH NAME	BATCH DATE	OPERATION TYPE	QUANTITY	STATUS	
ABH Move SIM	14/03/2023	Move SIM to sub-account	2	Ready	Execute

New Batch Operation in the Batch Operations List: Status Ready

- 5. Do one of the following to execute the batch operation:
 - a. Execute the entire batch file with all its operations.
 - b. Execute the batch file, one operation at a time.

Execute Entire Batch File with All Operations

6. From the Batch Operations List, click Execute to execute the entire batch file with all its operations. The system executes the batch operation in small chunks, and you can track the batch operation progress.

Execute Batch File One Operation at a Time

- 7. Click the Batch Name in the Batch Operations List. The Batch Records page with the Records table appears. Each row in the table is one operation in the batch file.
- 8. Click Execute only that operation.

5.14 Batch Operation Adjustment

To make a billing adjustment via batch operation, do these steps:

- 1. Select **Batch Operations** from the sidebar menu.
- 2. Click **Upload** to display the Upload Batch File dialog box.
- 3. Enter a **Batch Name** for the batch operation.
- 4. Select the appropriate **Operation Type**:
 - a. Account Manual Adjustment
 - b. Subscriber Manual Adjustment
- 5. Add a **CSV file** in the file upload area.
- 6. Click **Upload** to execute the batch operation.
- 7. Refresh the Batch Operation page and click **Execute** to update billing data.

Here is a screen capture of the Upload Batch file dialog box.

		Upload Batch File	×		
1	Batch Name	Batch Name*			
2	Operation	Operation Type* Sync Subscriber Hierarchy	•	Operation Type* Account Manual Adjustment	•
U	Туре			Set SIM Status	
		٥		Remove IMSI/MSISDN to SIM	
		In the uploaded batch file, the order of columns should be as follows: Sim UUID		Account Manual Adjustment	
				Subscriber Manual Adjustment	
6	File			Sync Subscriber Hierarchy	
3	Upload	• •		Update External Params Values	
		DRAG AND DROP CSV FILE HERE TO UPLOAD or click to browse for file			
		CANCEL UPLO/	D	Upload	

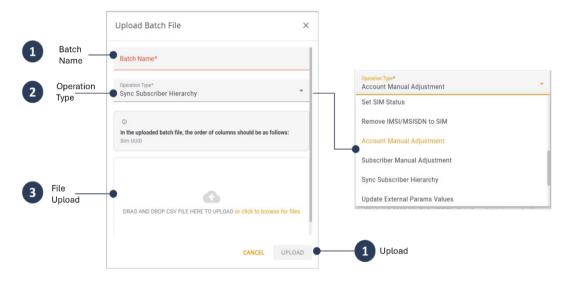
The batch operation procedure for Subscribers and Accounts is the same. Make sure you use the appropriate actions and files when you run a batch operation.

5.15 Account Manual Adjustment

To make a manual adjustment for an account via batch operation, do these steps:

- 1. Select **Batch Operations** from the sidebar menu.
- 2. Click Uploadto display the Upload Batch File dialog box.
- 3. Enter a **Batch Name** for the batch operation.
- 4. Select Account Manual Adjustment.
- 5. Add a **CSV file** in the file upload area.
- 6. Click **Upload** to execute the batch operation.
- 7. Refresh the Batch Operation page and click **Execute** to update billing data.

Here is a screen capture of the Upload Batch file dialog box.



6 Plans and Packages

This section contains detailed information on how to manage plans for your sub-accounts.

6.1 Plan Guidelines

Use these guidelines when you assign SIMs to a plan.

Guideline	Description
Plan Assignment	Each SIM in the inventory can be assigned to one or more Plans.
SIM Allocation	Only SIMs allocated to sub-accounts can be assigned to a Plan. SIMs allocated to the main account cannot be assigned to a plan.
Activation Type	Defines different methods of when to start charging for a plan
SIMs Across Child Accounts	Multiple SIMs can be assigned across sub-accounts to a single plan.
Differentiated Rates	Users can assign different plans to SIMs within the same account to set different rates.
Renewal Interval	Set the renewal terms for plans to ensure that assigned SIMs maintain their connectivity without interruption.
Eligible Accounts	Parent accounts can select the sub-accounts that are authorized to use the plan.
Expiration Date	Enables users to control the plan validity period.
SIM Management	Use the SIMs module to attach or detach SIMs from plans. Assigned SIMs are displayed in the Sell Plan column, while the associated plan is displayed in the Buy Plan column.

6.1.1 Plan Prioritization and Structure

Guideline	Description
Priority of Plans	Multiple plans attached to a SIM have a priority order. The first attached plan gets the highest priority. Users can change the priority after attaching the plans to create tiered pricing.
Resource Sharing in Pool Plans	In a Pool Plan, multiple SIMs share resources such as money balance, data usage, and SMS volume.
Independence in Regular Plans	In a Regular Plan, each SIM works independently of other SIMs using the same plan.

6.1.2 Availability and Limitations

Guideline	Description
Provider Limitations	Users can limit a Regular or Pool Plan to one or more authorized providers for the sub-account. Multiple plans can differ by selected providers.
Availability Zones	Users can attach Availability Zones to Regular and Pool Plans to limit SIM usage to specific countries and operators.

6.1.3 Customers and Sub-Accounts

Guideline	Description
Sub-Account Management	Users can manage multiple sub-accounts under a customer, each with distinct plans and SIM allocations.
Customer- Specific Pairing	The SIM-Plan pairing applies only to each customer and determines how each customer pays for the SIM.
Eligible Accounts	Defines which sub-accounts can use a plan based on settings from the parent account.
Connectivity Requirement	A SIM must be attached to a plan for customers to access connectivity services like Data and SMS.
Control Limitations	Customer do not have control over plan-SIM pairings and allocations after SIMs have been assigned to their sub-accounts.

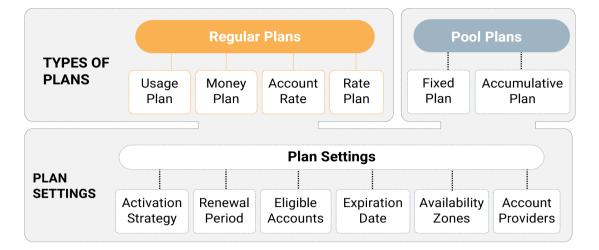
6.2 Types of Plans

The Plans module enables you to create and configure Sell Plans for SIMs that your child accounts (customers) pay for. You can assign each SIM in your inventory to one or more plans. You can also assign multiple SIMs across all your child accounts to a single plan, which makes management easier and reduces unnecessary duplication of plans.

There are two types of Plans as described in this table:.

Plan Type	Description
Regular Plans	Each SIM assigned is independent of the others.
Pool Plans	The SIMs share resources like money balance, data usage, and SMS volume.

An overview of the plan types and settings is shown here.



6.2.1 Plan Settings

All plan types, both Regular and Pool can be customized by defining various common settings. A description of the plan settings is provided here.

Plan Type	Description
Activation Strategy	Defines the conditions under which a plan becomes active and the services start being available. Refer to "Activation Strategy" on page 118
Renewal Period	Specifies how and when the plan will renew, either based on time periods or no renewal. Refer to "Renewal Strategy" on page 119
Eligible Accounts	Specifies which sub-accounts are eligible to use the plan.
Expiration Date	Determines when the plan expires, either by a fixed date or duration from first use. Refer to "Expiration Strategy" on page 118.
Availability Zones	Geographic and network operator restrictions that limit where and how the plan can be used. Refer to "Availability Zones" on page 121
Account Providers	Plans can be limited to one or more authorized providers for sub- accounts. You can create different plans based on the providers selected. If no providers are limited, the Plan applies to all authorized providers in the sub-account.

NOTE: Only SIMs already allocated to your child accounts (customers) can be assigned to a Plan. SIMs in your main account cannot be assigned to any Plan.

6.3 Buy and Sell Plans

You can view the Buy and Sell Plans associated with your SIMs to manage your billing policies and ensure they align with your business needs.

Type of Plan	Description
Buy Plans	Access and review the Buy Plans created by your parent account. These plans are for SIMs in your inventory, but you cannot modify them as they are managed by the parent account.
Sell Plans	View and manage the Sell Plans that you have created for SIMs assigned to your child accounts (customers). These plans define the billing terms for the SIMs your customers use.

A screen capture of the Sell and Buy Plans table is shown here.



A description of the Sell/Buy Plan table columns is provided here.

	Column Header	Description
А	Plan Name	The name of the connectivity plan.
В	Cost	The total price of the plan.
С	Туре	The plan type (e.g. Usage, Rate, Money).
D	Eligible Accounts	The sub-accounts that can use a plan based on settings from the parent account.
E	Allocated Sims	The number of SIM cards included in the plan.
F	Data	The total data allowance provided.
G	Device Data Limit	The data usage limit per device.
Н	SMS	The total number of SMS messages included.
J	Device SMS Limit	The SMS usage limit per device.
К	Prorated	Indicates whether charges are prorated.
L	Renewal Period	The frequency of plan renewal.
L	Activation Type	The method of activating the plan.
М	Availability Zones	Geographic regions where the plan is available.

6.3.1 View Buy Plans

To view Buy Plans created by your parent account, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plans** tab.
- 3. Click the **Buy Plans** tab to display the plans created by your parent account.

NOTE: You can view the buy plans created by your parent account, but you cannot edit these plans.

6.3.2 View Sell Plans

To view the Sell Plans you have created and assigned to your child accounts, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plans** tab.
- 3. Click the **Sell Plans** tab to display the plans you have created and assigned to your child accounts.

6.4 Connectivity Type

When you create a plan you need to configure the type of connectivity. There are two connectivity types:

- **Cellular Connectivity:** Refers to data SMS and voice services provided through traditional cellular networks for defined geographical coverage areas.
- Satellite Connectivity: Applies to data services delivered via satellite technology offering global coverage for remote isolated areas where cellular networks may be unavailable.

A comparison of the cellular and satellite connectivity rates is provided in this table.

Feature	Cellular Rates	Satellite Rates
Pricing Structure	Vary based on network provider, plan type, and usage; often includes bundled packages.	Tend to be higher due to infrastructu re costs; typically no bundled packages.

Feature	Cellular Rates	Satellite Rates
Charging Units	Implemented using 1 KB charging units. Can also be billed in larger units such as megabytes (1 MB) or gigabytes (GB).	Implement ed using 1 byte charging units for precise billing on data consumptio n.

NOTE: Satellite coverage is supported for data service only.

6.5 Types of Regular Plans

There are various types of plans that determine how customers are charged for data and SMS usage. The platform offers flexibility for both prepaid and postpaid plans, with options for setting quotas, limits, or fixed rates.

The main types of regular plans are described in this table.

	Type of Plan	Description				
1.	Usage Plan	A prepaid package that sets a data quota (KB, MB, GB) and/or SMS volume for a renewal period. The quota can be prorated over the renewal period.				
2.	Money Plan	A prepaid package that sets a money limit for usage over a renewal period. The money quota can also be prorated.				
3.	Account Rate	A postpaid plan where charges are based on the account- level Connectivity Rates tables for SIMs attached to the plan.				
		A postpaid package where customers pay after consuming data services or sending SMSs during the renewal period. You can set limits for data and SMS usage. Rate Plans come with fixed rates for both data and SMS, which must be specified. There are two variations of Rate Plans:				
		• Fixed Rate Plan: The rates for both data and SMS				
4	Data Dian	usage are fixed by Billing Plan. You must define rates for				
4.	Rate Plan	both services.				
		• Customized Rate Plan: Rates are sourced from a				
		custom Excel file that you upload, containing SMS and				
		data rates. SIMs attached to this plan are restricted to				
		the countries, operators, and PLMNs listed in the file.				

IMPORTANT: You should note that Regular Plans cannot be edited. You can delete a regular plan only if there are no SIMs attached to it.

NOTE: You can Attach/Detach existing plans to a SIM in the SIMs management module.

Create Usage Plan

A Usage Plan is prepaid that sets a data quota (KB, MB, GB) and/or SMS volume for a specified renewal period. The quota can be prorated over the renewal period.

A screen capture of the Usage Plan options is shown here.

- Plan type*			-	1	C	(D	
Usage							
Plan Name*				Plan cost	*	Currency*	•
Eligible Accounts							
			F	Prorate	ed 🗌 Including pla	atform fee 💿	G
Available services							
Data Allowance		Unit	~	SMS	Allowance		
Activation Strategy 💿							
Activation Type*			•				
Renewal Strategy							
Renewal Period*			•				
Expiration Strategy							
Expiration type* No Expiration			•				
Availability Zones							
Everywhere O White	te list zones						
Providers							
 All account providers 	O Select providers						

Plan Parameters

A description of the Usage Plan parameters is provided in this table.

	Parameter	Description
А	Plan Type	The type of regular plan selected.
В	Plan Name	A unique identifier for the plan.
С	Plan Cost	The cost of the plan, with option to specify the currency.
D	Currency	The currency used for the plan cost.
Е	Eligible Accounts	The accounts that are eligible to use the plan.
F	Prorated	Calculation of cost based on actual usage.
G	Including Platform Fee	Includes monthly payments for Access Fees and/or Surcharge Fees.
Н	Available Services	Defines the services available in the plan, including data allowance in KB, MB, or GB, and SMS allowance.
J	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
К	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.
L	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
М	Availability Zones	Determines where the plan is available, with options for Everywhere or White-List Zones. Refer to "Availability Zones" on page 121.
N	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create a Usage Plan, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** tab.
- 3. Click + Plan to display the Create regular Plan dialog box.
- 4. Select Usage from the list of Plan Types*.
- 5. Type a name in the **Plan Name*** field.
- 6. Specify a value in the **Plan Cost*** field.
- 7. Specify the **Currency*** from the list of options.
- 8. Select one or more Eligible Accounts.
- 9. Check the **Prorated** option if appropriate.

NOTE: The Prorated option is used to calculate a proportionate adjustment if a SIM is activated partway through the renewal period. The purpose is to ensure that charges align with the actual usage time.

- 8. Check the **Including Platform Fee** if applicable.
- 9. Check the type of Available Services:
 - Data: Specify the allowance amount and unit (KB, MB, GB)
 - SMS: Specify the allowance amount.
- 10. Select an "Activation Strategy" on page 118.
- 11. Select a "Renewal Strategy" on page 119.
- 12. Select an "Expiration Strategy" on page 118.
- 13. Check the appropriate "Availability Zones" on page 121.
- 14. Check the appropriate **Providers** option:

• All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.

- Select providers: This plan can be assigned to selected providers only.
- 15. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

Create Money Plan

A money plan is prepaid package that sets a money limit for usage over a renewal period. The money quota can be prorated over the renewal period.

A screen capture of the Money Plan Options is shown here.

Money	
Plan Name* Money Plan	Balance value*
Eligible Accounts	
	F 🗆 Prorated 🗋 Including platform fee
Activation Strategy	
Activation Type*	O The SIM starts to be charged with the plan cost when it is
Regular	 attached to the plan.
Renewal Strategy	
Renewal Period*	Day type*
Monthly	▼ First day of selected period ▼
Expiration Strategy	
Expiration type*	
No Expiration	Ť
Availability Zones	
Everywhere White list zones	
Providers	
All account providers Select providers	

Plan Parameters

A description of the Usage Plan parameters is provided in this table.

	Parameter	Description
А	Plan Type	The type of regular plan selected.
В	Plan Name	A unique identifier for the plan.
С	Balance Value	The amount of prepaid money in the plan.
D	Currency	The currency used for the plan cost.
Е	Eligible Accounts	The accounts that are eligible to use the plan.
F	Prorated	Calculation of cost based on plan activation.
G	Including Platform Fee	Includes monthly payments for Access Fees and/or Surcharge Fees.
н	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
J	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.

	Parameter	Description
к	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
L	Availability Zones	Determines where the plan is available, with options for Everywhere or White List Zones. Refer to "Availability Zones" on page 121.
М	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create a Money Plan, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** tab.
- 3. Click + Plan to display the Create regular Plan dialog box.
- 4. Select **Money** from the list of **Plan Types***.
- 5. Type a name in the **Plan Name*** field.
- 6. Specify an amount in the **Balance Value** field.
- 7. Specify the **Currency*** from the list of options.
- 8. Select one or more **Eligible Accounts.**
- 9. Check the **Prorated** option if appropriate.

NOTE: The Prorated option is used to calculate a proportionate adjustment if a SIM is activated partway through the renewal period. The purpose is to ensure that charges align with the actual usage time.

- 8. Check the Including Platform Fee if applicable.
- 9. Select an "Activation Strategy" on page 118.
- 10. Select a "Renewal Strategy" on page 119.
- 11. Select an "Expiration Strategy" on page 118.
- 12. Check the appropriate "Availability Zones" on page 121.
- 13. Check the appropriate **Providers** option:

• All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.

- Select providers: This plan can be assigned to selected providers only.
- 14. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

Create Account Rate Plan

An Account Rate Plan is a postpaid plan where charges are based on the account countrynetwork combination specified in the Connectivity Rates table. The account rates are applicable for SIMs attached to the plan.

NOTE: For a detailed explanation of how connectivity rates work refer to" Rates and Fees" on page 173

- Plan type*					
Account Rate		*		С	D
Plan Name*					
Money Plan			Plan cos	t*	Currency*
Eligible Accounts					
			F	Including platform fee	٥
Limit Settings					
Data	Units	×	SMS	Allowance	
Activation Strategy 💿					
Activation Type*		*			
Renewal Strategy					
Renewal Period*		٠			
Expiration Strategy					
- Expiration type*					
No Expiration		¥			
Availability Zones					
Everywhere White list zo	ones				
Providers					
All account providers Se	elect providers				

A screen capture of the Account Rate Plan options is shown here.

Plan Parameters

A description of the Account Rate parameters is provided in this table.

	Parameter	Description
А	Plan Type	The type of regular plan selected.
В	Plan Name	A unique identifier for the billing plan.
с	Plan Cost	The cost of the plan, with options to specify the currency.
D	Currency	Defines the plan currency.
Е	Eligible Accounts	The accounts that are eligible to use the plan.
F	Including Platform Fee	Includes monthly payments for Access Fees and/or Surcharge Fees.
G	Limit Settings	Limits the usage of Data to a specified amount of units or to predefined number of SMS messages.
н	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
J	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.
к	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
L	Availability Zones	Determines where the plan is available, with options for Everywhere or White-List Zones. Refer to "Availability Zones" on page 121.
Μ	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create an Account Rate Plan, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plan** tab.
- 3. Click + Plan to display the Create Regular Plan dialog box.
- 4. Select Account Rate from the list of Plan Types*.

- 5. Type a name in the **Plan Name*** field.
- 6. Specify a value in the **Plan Cost*** field.
- 7. Specify the **Currency*** from the list of options.
- 8. Select one or more Eligible Accounts.
- 9. Check the Including Platform Fee if applicable.
- 10. Specify the Limit Settings for the account rate plan (optional).
 - \circ Data: Specify the plan amount limit and unit (KB, MB, GB).
 - SMS: Specify the plan amount limit.

NOTE: When the limit settings are exceeded, SIM services for this plan are blocked.

- 8. Select an "Activation Strategy" on page 118.
- 9. Select a "Renewal Strategy" on page 119.
- 10. Select an "Expiration Strategy" on page 118.
- 11. Check the appropriate "Availability Zones" on page 121.
- 12. Check the appropriate **Providers** option:
 - All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.
 - Select providers: This plan can be assigned to selected providers only.
- 13. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

6.5.1 Create Fixed Plan Rate

When you create a Fixed Plan Rate you must specify rates for both data and SMS.

A screen capture of the Fixed Plan Rate options is shown here.

Plan type* Plan Rate			B Fixed		•
Plan Name*			D Plan co	ost*	Currency*
Eligible Accoun	ts				
				G Including platform fe	ee 💿
Fixed Rates					
Data Pric	e per MB *	Currency *	SMS	Price per SMS *	Currency*
Limit Setting	5				
Data Allo	wance	Units	SMS	Allowance	
Activation Str	ategy 💿				
Activation Type	*		•		
Renewal Stra	tegy				
Renewal Period	*		•		
Expiration St	rategy				
Expiration type* No Expiration			•		
Availability Z	ones				
Everywhere	○ White list zones				
Providers					

Plan Parameters

A description of the Fixed Plan Rate parameters is provided in this table.

	Parameter	Description
А	Plan Type	The type of regular plan selected.
В	Rate Type	Specifies if the Rate Plan is Fixed or Customized
С	Plan Name	A unique identifier for the billing plan.
D	Plan Cost	The cost of the plan, with option to specify the currency.
E	Currency	Defines the plan currency.
F	Eligible Accounts	The accounts that are eligible to use the plan.
G	Including Platform Fee	Includes monthly payments for Access Fees and/or Surcharge Fees.

	Parameter	Description
Н	Fixed Rates	Specifies the price and currency for both Data and SMS usage.
J	Limit Settings	Limits the usage of Data to a specified number of units or to predefined number of SMS messages.
К	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
L	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.
М	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
N	Availability Zones	Determines where the plan is available, with options for Everywhere or White-List Zones. Refer to "Availability Zones" on page 121.
0	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create an Account Rate Plan, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** tab.
- 3. Click + Plan to display the Create regular Plan dialog box.
- 4. Select **Plan Rate** from the list of **Plan Types**.
- 5. Select **Fixed** from the list of **Rate Types**.
- 6. Type a name in the **Plan Name*** field.
- 7. Specify a value in the **Plan Cost*** field.
- 8. Select the **Currency*** from the list of options.
- 9. Select one or more Eligible Accounts.
- 10. Check the Including Platform Fee if applicable.
- 11. Define the **Fixed Rate** price and currency for Data and SMS usage.
- 12. Specify the Limit Settings for the account rate plan (optional).

- Data: Specify the plan amount limit and unit (KB, MB, GB).
- o SMS: Specify the plan amount limit.

NOTE: When the limit settings are exceeded, SIM services for this plan are blocked.

- 8. Select an "Activation Strategy" on page 118.
- 9. Select a "Renewal Strategy" on page 119.
- 10. Select an "Expiration Strategy" on page 118.
- 11. Check the appropriate "Availability Zones" on page 121.
- 12. Check the appropriate **Providers** option:
 - All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.
 - Select providers: This plan can be assigned to selected providers only.
- 13. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

6.5.2 Create Customized Plan Rate

Plan Rates can be customized based on data uploaded from an Excel file. SIMs attached to this plan are restricted to the countries, operators, and PLMNs listed in the file.

A screen capture of the Customized Plan Rate options is shown here.

Plan Rate Plan Name* Plan Name* Plan cost* Eligible Accounts Customize Rates Customize Rates <th>reate Regular Plan</th> <th></th> <th></th> <th></th> <th></th>	reate Regular Plan				
Plan Name* Plan Cost* Currency* Eligible Accounts Currency* Currency* Eligible Accounts Currency* Currency* Currency* Eligible Accounts Currency* Currency* Eligible Accounts Currency* Eligible Accounts Currency* Currency* Eligible Accounts Currency* Eligible Accounts Currency* Eligible Accounts Currency* Eligible Accounts Currency* Eligible Accounts ligible Accounts Eligible Accounts Eligible Accounts Eligible Accounts Eligible Accounts Eligible Accounts Eligible Accounts Eligible Accou	Plan type*	R	Rate type		
Eligible Accounts Eligible Accounts Customize Rates Cu	Plan Rate		Customized	•	
Customize Rates Customize Rat	Plan Name*	D	Plan cost*	E Currency	*
Customize Rates Custom	Eligible Accounts				
			G□	Including platform fee	
**emass skirkler ** dealemene are follows: Courrency, Deach ME, PLARE, anadouch rise Types. Limit Settings Data Allowance Units SMS Allowance Activation Strategy Renewal Period* • Expiration • Expiration • Everywhere • White list zones • All account providers • Select providers	Customize Rates 💿				
**emass skirkler ** dealemene are follows: Courrency, Deach ME, PLARE, anadouch rise Types. Limit Settings Data Allowance Units SMS Allowance Activation Strategy Renewal Period* • Expiration • Expiration • Everywhere • White list zones • All account providers • Select providers		0			
Limit Settings Data Allowance Units SMS Allowance Activation Strategy Activation Type* Activation Type* Renewal Strategy Renewal Period* Expiration Strategy Availability Zones Expiration Availability Zones Exproviders All account providers Select providers		Drag a file here Or clic	k to browse		
Limit Settings Data Alowance Units SMS Alowance Activation Strategy Activation Type* Activation Type* Renewal Strategy Renewal Period* Expiration Strategy Providers Providers All account providers Select providers	*Formate xla/xlax	*8 columna as follows: Country, Operator, Currency, I	iata/M8, PLMN, smeOut	.smsOutPriceType, dataPriceType	
Allowance Units SMS Allowance Activation Strategy ③ Activation Type* Activation Type* Renewal Strategy Renewal Period* Expiration Strategy • Deparation type* No Expiration • Expiration Strategy • Expiration Strategy • Output • Deparation type* • Output • Output • Deparation type* • Deparation type* <				0	ANCEL
Activation Strategy Activation Type* Activation Type* Renewal Strategy Renewal Period* Expiration Strategy Expiration Strategy Availability Zones Expiration Availability Zones Providers All account providers Select providers	Limit Settings				
Activation Type* Renewal Strategy Renewal Period* Expiration Strategy Expiration type* No Expiration * Availability Zones	Data Allowance	Units ~	SMS	Allowance	
Renewal Strategy Renewal Period* Expiration Strategy Expiration type* No Expiration No Expiration Valiability Zones Everywhere White list zones Providers Select providers	Activation Strategy 💿				
Renewal Period* • Expiration Strategy • Department type* • No Expiration • Availability Zones • • Everywhere • White list zones • Providers • • All account providers •	Activation Type*	-			
Expiration Strategy Detention type* No Expiration Availability Zones Everywhere White list zones Providers All account providers Select providers	Renewal Strategy				
	Renewal Period*				
No Expiration Availability Zones Everywhere White list zones Providers All account providers Select providers Select providers					
Everywhere White list zones Providers All account providers Select providers		-			
Everywhere White list zones Providers All account providers Select providers	Availability Zones				
All account providers Select providers		ones			
	Providers				
	All account providers Se	elect providers			
					CAN

Plan Parameters

A description of the Customized Plan Rate parameters is provided in this table.

	Parameter	Description
А	Plan Type	The type of regular plan selected.
В	Rate Type	Specifies if the Rate Plan is Fixed or Customized
С	Plan Name	A unique identifier for the billing plan.
D	Plan Cost	The cost of the plan, with options to specify the currency.
E	Currency	Defines the plan currency.
F	Currency	Defines the plan currency.
G	Eligible Accounts	The accounts that are eligible to use the plan.

	Parameter	Description
н	Customize Rates	Upload an Excel file containing the rates for specific countries, operators and PLMNs.
J	Limit Settings	Limits the usage of Data to a specified number of units or to predefined number of SMS messages.
К	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
L	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.
М	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
N	Availability Zones	Determines where the plan is available, with options for Everywhere or White-List Zones. Refer to "Availability Zones" on page 121.
0	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create a Customized Plan Rate, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** tab.
- 3. Click +Plan to display the Create regular Plan dialog box.
- 4. Select **Plan Rate** from the list of **Plan Types**.
- 5. Select **Customized** from the list of **Rate Types**.
- 6. Type a name in the **Plan Name*** field.
- 7. Specify a value in the **Plan Cost*** field. If you do not want to set a Plan Cost, enter **0** (zero).
- 8. Select the **Currency*** from the list of options.
- 9. Select one or more Eligible Accounts.
- 10. Check the **Including Platform Fee** if applicable.
- 11. Upload an Excel file in the Customize Rates field..

- 12. Specify the Limit Settings for the account rate plan (optional).
 - Data: Specify the plan amount limit and unit (KB, MB, GB).
 - SMS: Specify the plan amount limit.

NOTE: When the limit settings are exceeded, SIM services for this plan are blocked.

- 8. Select an "Activation Strategy" on page 118.
- 9. Select a "Renewal Strategy" on page 119.
- 10. Select an "Expiration Strategy" on page 118.
- 11. Check the appropriate "Availability Zones" on page 121.
- 12. Check the appropriate **Providers** option:
 - All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.
 - Select providers: This plan can be assigned to selected providers only.
- 13. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

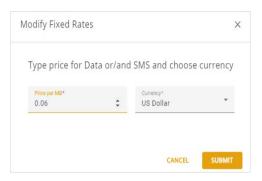
IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

6.6 Modify Rates of a Fixed Rate Plan

You can modify the rates of a Fixed Plan Rate directly from the Plan Details page. Modifications can only be made to rates that have already been configured. For example, if a Fixed Plan Rate includes both Data and SMS rates, you can modify both. However, if your Fixed Rate Plan specifies only a Data rate and does not include an SMS rate, you can modify the Data rate but will not be able to add an SMS fixed rate.

A screen capture of the Modify Fixed Rate dialog box is shown here.

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To update the rates of a Fixed Plan Rate, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** tab.

Click the appropriate Plan Rate to display the plan details page.

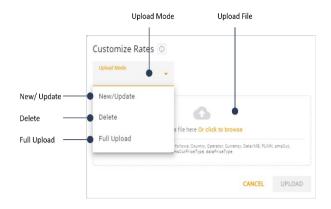
- 3. Select the Plan Details tab.
- 4. Click the Edit icon to display the Modify Fixed Rate dialog box.
- 5. Update these fields:
 - Price per MB
 - Currency
- 6. Click **Submit** to update the Plan Rate.

6.6.1 Update Customized Plan Rate

To update a Customize Plan Rate, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** tab.
- 3. Click the appropriate **Customized Plan Rate** to display the plan details page.
- 4. Select the **Customize Rates** tab.
- 5. Click **Update Rates** to display the Customize Rates dialog box.
- 6. Click **Upload Mode** and select the desired action from the list:
 - New/Update
 - \circ Delete
 - Full Upload
- 4. Select an Excel file and click **Upload**. The rates table displays the updated data.

A screen capture of the Customize Rate dialog box is shown here.



A description of the Upload Modes is provided in this table.

Upload Mode	Description
New / Update	Add new rates from the Excel file that are not yet in the system or update existing rates that have changed.
Delete	Remove rates listed in the Excel file from the system. Rates that are not included in the Excel file will remain untouched, ensuring only the specified rates are deleted.
Full Upload	Replace all rates in the system with those from the Excel file. New rates will be added, existing rates will be updated, and any rates not found in the Excel file will be removed, keeping the system current.

The Excel file contains these parameters.

Parameters	Description
Country	The country where the rate plan is applicable.
Operator	The service provider associated with the rate plan
Currency	The type of currency used for pricing the rates.
Data MB	The rate of a single unit of for 1 megabyte.
PLMN	The Public Land Mobile Network identifier for the operator.
smsOut	The rate for a single SMS.
smsOutPriceType	The pricing structure for outgoing SMS messages (e.g., fixed price, block).
dataPrice Type	The pricing structure for data usage (e.g., fixed price, block).

6.7 Types of Pool Plans

A pool plan is a single plan shared by multiple SIMs. The resources in the pool plan are used by all SIMs assigned to the plan. A Pool Plan helps organizations manage a group of SIM cards

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that can be shared among many devices. This approach makes it easier to allocate resources, reduce costs, and adjust to different connectivity needs as they change, providing operational flexibility and scalability.

Type of Plan	Description
Fixed Pool Plan	This plan includes a predetermined number of SIM cards at a set price. The customer pays a fixed fee for a fixed quota of SIMs, which provides predictable and stable cost. This type of plan is suitable for use cases that have consistent connectivity needs. Customers know exactly what resources they have and what they will pay.
Accumulate Pool Plan	In this plan, each new SIM added to the pool incurs additional costs and contributes to its own specific quota. Customers designate quota amounts for each SIM, which can vary over renewal periods. This approach provides flexibility, allowing organizations to expand their connectivity as needed, but also leads to variable expenses depending on the number of SIM cards in use.

6.8 Create Fixed Pool Plan

A Fixed Pool Plan includes a predetermined plan cost and quota shared by all SIMs that are allocated to this Pool plan. The customer pays a fixed fee for a fixed quota of SIMs, which provides predictable and stable cost. This type of plan is suitable for use cases that have consistent connectivity needs. Customers know exactly what resources they have and what they will pay.

A screen capture of the Fixed Pool Plan parameters is shown here.

Create r	new Pool Plan					
Pool Type*		•				
Pool nar	ne*		C Pool Co	st *	D Currency	* •
Eligible	Accounts					•
Pool Qu	iota					
Data	Allowance*	Unit* 👻	SMS	Allowance*		
Limit Se	ettings					
Data	Allowance	Unit ~	SMS	Allowance		
Activati	on Strategy 💿					
Activatio	on Type*	*				
Renewal	Strategy					
Select Re	enewal Period*	•				
Expiratio	on Strategy					
No Expir		•				
Availabi	lity Zones					
Every	where O White list zones					
Provide	rs					
) All ac	ccount providers O Select provid	ers				
					CANCEL	CREAT

Plan Parameters

A description of the Fixed Pool Plan parameters is provided in this table.

	Parameter	Description
А	Plan Type	The type of regular plan selected.
В	Pool Name	A unique identifier for the fixed pool plan.
С	Pool Cost	The cost of the fixed pool plan.
D	Currency	The currency used for the plan cost.
E	Eligible Accounts	The accounts that are eligible to use the plan.
F	Pool Quota	The allowance amount for data and SMS.
G	Limit Settings	Set data and SMS usage limits per SIM to ensure that a single SIM does not consume the entire pool allowance.

	Parameter	Description
Н	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
J	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.
К	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
L	Availability Zones	Determines where the plan is available, with options for Everywhere or White-List Zones. Refer to "Availability Zones" on page 121.
М	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create a Fixed Pool Plan, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plans** tab.
- 3. Click +Planto display the Create New Pool Plan dialog box.
- 4. Select **Fixed** to display the Create New Pool Plan settings page.
- 5. Select a **Child Account***from the list.
- 6. Enter a name in the **Pool Name*** field.
- 7. Specify a value in the **Plan Cost*** field.
- 8. Specify the **Currency*** from the list of options.
- 9. Select one or more **Eligible Accounts.**
- 10. Check the type of **Pool Quota**:
 - Data: Specify the allowance amount and unit (KB, MB, GB)
 - SMS: Specify the allowance amount.
- 11. Specify the Limit Settings to apply for each SIM)
 - Data: Specify the allowance amount and unit (KB, MB, GB)
 - SMS: Specify the allowance amount.
- 12. Select an "Activation Strategy" on page 118.
- 13. Select a "Renewal Strategy" on page 119.
- 14. Select an "Expiration Strategy" on page 118.

- 15. Check the appropriate "Availability Zones" on page 121.
 - o Everywhere
 - White-List Zones
- 16. Check the appropriate **Providers** option:

• All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.

- Select providers: This plan can be assigned to selected providers only.
- 17. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

6.9 Create Accumulative Pool Plan

For Accumulative Pool Plans, each new SIM added to the pool incurs additional costs and contributes to the Pool plan quota. Customers designate quota amounts for each SIM, which can vary over renewal periods. This approach provides flexibility, allowing organizations to expand their connectivity as needed, but also leads to variable expenses depending on the number of SIM cards in use.

A screen capture of the Accumulative Pool Plan parameters is shown here.

Accumu			*			
· · · · · ·						
Pool nar	ne*		С	Cost per	assign device *	Currency
Eligible	Accounts					
Quota p	oer assign device					
🖌 Data	Allowance*	Unit*	•	SMS	Allowance*	
Limit Se	ettings					
🗆 Data	Allowance	Unit	×	SMS	Allowance	
Activatio	on Strategy 💿					
Activatio	on Type*		•			
Renewa	al Strategy					
Select R	Renewal Period*		*			
	on Strategy					
No Expi	iration type*		•			
Ever Provide	ers					
All a	account providers O S	elect providers				

Plan Parameters

A description of the Accumulative Pool Plan parameters is provided in this table.

	Parameter	Description
Α	Plan Type	The type of regular plan selected.
В	Child Account	The name of the sub-account
С	Pool Name	A unique identifier for the fixed pool plan.
D	Pool Cost	The cost of the fixed pool plan.
Е	Currency	The currency used for the plan cost.
F	Eligible Accounts	The accounts that are eligible to use the plan.
F	Quota Per Assign Device	The amount of additional data and SMS quota added to the pool for every SIM that is added to the plan.

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	Parameter	Description
G	Limit Settings	Set data and SMS usage limits per SIM to ensure that a single SIM does not consume the entire pool allowance.
Н	Activation Strategy	Specifies when the plan starts. The Activation Type can be set to regular, Renewal Cycle Activity, or First Activity. Refer to "Activation Strategy" on page 118.
J	Renewal Strategy	Defines the renewal period, which can be set to Daily, Weekly, Monthly, Quarterly, Semi-Annual, Annual, or One Time. Refer to "Renewal Strategy" on page 119.
к	Expiration Strategy	Specifies the plan expiration type, which can be set to No Expiration, Fixed Date, From Offer Activation, or From Plan First Use. Refer to "Expiration Strategy" on page 118.
L	Availability Zones	Determines where the plan is available, with options for Everywhere or White-List Zones. Refer to "Availability Zones" on page 121.
М	Providers	Specifies whether all account providers are available or if specific providers are selected for the plan.

Step-by-Step Instructions

To create an Accumulative Pool Plan, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plans** tab.
- 3. Click + PLAN to display the Create New Pool Plan dialog box.
- 4. Select **Accumulative** to display the Create New Pool Plan settings page.
- 5. Enter a name in the **Pool Name*** field.
- 6. Specify a value in the **Cost Per Device*** field.
- 7. Specify the **Currency*** from the list of options.
- 8. Select one or more **Eligible Accounts.**
- 9. Specify the Quota Per Assign Device:
 - Data: Specify the allowance amount and unit (KB, MB, GB)
 - SMS: Specify the allowance amount.
- 10. Specify the Limit Settings to apply for each SIM)
 - $\,\circ\,$ Data: Specify the allowance amount and unit (KB, MB, GB)
 - SMS: Specify the allowance amount.
- 11. Select an "Activation Strategy" on page 118.

- 12. Select a "Renewal Strategy" on page 119.
- 13. Select an "Expiration Strategy" on page 118.
- 14. Check the appropriate "Availability Zones" on page 121
 - Everywhere
 - White-List Zones
- 15. Check the appropriate **Providers** option:

• All account providers: This plan can be assigned to all authorized providers listed in the "Providers Module" on page 261.

- Select providers: This plan can be assigned to selected providers only.
- 16. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

IMPORTANT: You can now access the SIMs Module to attach SIMs to this plan. You should note that a SIM must be attached to a plan in order to utilize connectivity services such as Data and SMS.

6.10 Top Up Pool Plan

You can add Data and/or an SMS allowance to Top Up the balance of a Pool Plan.

NOTE: You need to attach a Pool Plan to at least on e SIM before you perform the Top Up procedure.

To top up a Pool Plan, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the Pool Plans tab.
- 3. Scroll the table and click the **Actions** icon for a specific pool plan.
- 4. Click the **Actions** icon and select the **Top-up option.** to display the Top Up dialog box.
- 5. Enter a value in the **Cost*** field.
- 6. Select the applicable Currency*.
- 7. Specify the additional allowance for SMS and Data.
- 8. Click **Update** to complete the Top Up operation.

A screen capture of the Top Up dialog box is shown here.

6.11 Activation Strategy

When you create a plan, you are required to specify the type of Activation Strategy assigned to the Plan.

A description of the Activation Strategies is provided in this table.

Activation Type	How It Works
Regular	The SIM card starts to be charged for the plan as soon as it is attached to the plan.
Renewal Cycle Activity	The SIM card is charged for the plan only if it has been active within the renewal cycle. If it has not been active, no charges will apply.
First Activity	The SIM card starts to be charged for the plan only upon its first connection to the network. After that, charges are applied at each renewal cycle.

6.12 Expiration Strategy

An expiration strategy defines the conditions under which plan terminates, including the duration of service validity and the criteria for renewal. You can specify fixed expiration dates, conditions based on activation, or parameters relating to initial use.

A description of the expiration options is provided in this table.

Expiration Type	Description	
No Expiration	The plan does not expire.	
Fix Date	The plan expires on a date you choose from a calendar.	
From the Offer Activation	Sets the duration of plan validity from the moment the SIM is attached to the plan in Days, Months, or Years.	
From Plan First Use	Sets the duration of plan validity from the moment the plan is first used by the SIM in Days, Months, or Years.	

6.13 Renewal Strategy

When you create a plan, you must specify the Renewal Period (a.k.a. Renewal Interval) for the billing cycle. The available renewal intervals are described in this table.

Renewal Period	How it Works
Daily	The plan is renewed at midnight every day, regardless of the time the SIM was attached to the plan. For a Money or Usage plan, any balance you have left over from the previous day is lost. For a Rate plan, (Data and SMS) usage limits are reset and start at zero for the coming day.
Weekly	The plan is renewed at midnight every Monday morning, regardless of when (date/time) the SIM was first attached to the plan (over the week). For a Money or Usage plan, any balance you have left over from the previous week is lost. For a Rate plan, (Data and SMS) usage limits are reset and start at zero for the coming week.
Monthly	The plan is renewed at midnight on the morning of the first of the month, for example at midnight on the morning of June 1. The plan is renewed regardless of when the SIM was first attached to the Plan (over the previous month). For a Money or Usage plan, any balance you have left over from the previous month is lost. For a Rate plan, (Data and SMS) usage limits are reset and start at zero for the coming month.
	The plan is renewed at midnight on the morning of these dates (every three months):
	 January 1
	o April 1
Quarterly	o July 1
	 September 1
	The plan is renewed regardless of when the SIM was first attached to the plan (during the previous quarter). For a Money or Usage plan, any balance you have left over from the previous quarter (three months) is lost. For a Rate plan, (Data and SMS) usage limits are reset and start at zero for the coming quarter.
Semi-Annually	The plan is renewed at midnight on the morning of these dates (every six months):

Renewal Period	How it Works
	 January 1
	 July 1
	The plan is renewed regardless of when the SIM was first attached to the plan (during the previous six months). For a Money or Usage plan, any balance you have left over from the previous six months is lost. For a Rate plan, (Data and SMS) usage limits are reset and start at zero for the coming six months.
Annually	The plan is renewed at midnight on the morning of January 1 (yearly). The plan is renewed regardless of when the SIM was first attached to the plan (during the previous year). For a Money or Usage plan, any balance you have left over from the previous year is lost. For a Rate plan, (Data and SMS) usage limits are reset and start at zero for the coming year.
One-Time	The plan is not renewed and remains valid until all quotas are used up.

6.13.1 Billing Cycles

When you attach SIMs to a plan, the SIMs are charged according to the renewal interval you configure. You can attach/detach Plans in the middle of a renewal interval. Follow the following example:

- 1. Attach SIM to Usage Plan with these attributes:
 - Attach Date: January 3
 - Data quota: 1 Gigabyte
 - SMS quota: 200 SMS
 - Cost: 20 USD
 - Not Prorated
 - Renewal Interval: Monthly

The SIM becomes active and can be used immediately according to the Billing Plan configuration at a cost of 20 USD for the rest of the month. The Billing Plan is renewed at midnight the morning of February 1 at a cost of 20 USD.

OR

1. Attach SIM to prorated Usage Billing Plan with these attributes:

- Attach Date: January 3
- Data quota: 1 Gigabyte
- o SMS quota: 200 SMS
- o Cost: 20 USD
- Prorated
- Renewal Interval: Monthly

The SIM becomes active and can be used immediately according to the Billing Plan configuration. The quotas are prorated according to the remaining time in the renewal interval. In the above example:

- The remaining interval is (31-3)/31 or 90.3 percent of the interval.
- The cost for this month is therefore 90.3 percent of 20 USD or 18.06 USD.
- The Data quota is 90.3 percent of 1 Gigabyte or about 925 Megabytes.
- The SMS quota is 90.3 percent of 200 SMS or 181 SMS messages.
- 2. Detach SIM from the Billing Plan on January 13.

NOTE: When you detach the SIM from the Billing Plan, all services are discontinued, and the SIM cannot be used until attached to another Billing Plan. All remaining balances are lost with no monetary compensation.

- 3. Attach SIM to another Billing Plan with these attributes:
 - Attach Date: January 16
 - Data quota: 2 Gigabyte
 - \circ SMS quota: 300 SMS
 - \circ Cost: 35 USD
 - Renewal Interval: Monthly

The SIM becomes active at the full monthly cost of 35 USD and can be used immediately according to the Billing Plan configuration. The Billing Plan is renewed at midnight the morning of February 1 at a cost of 35 USD.

6.14 Availability Zones

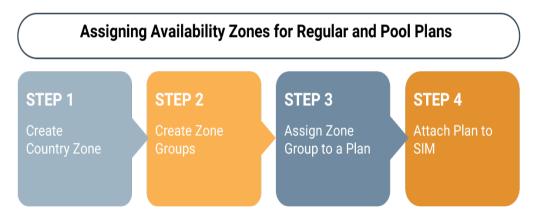
An Availability Zone limits the usage of one or more SIMs to a specific location by designating the country and operator.

NOTE: Availability Zones can be attached to both Regular and Pool plans.

A definition of the key availability terms is provided in this table.

Concept	Definition
Availability Zone	Limits the usage of one or more SIMs to a specific location by designating the country and operator. This ensures that the SIMs operate within predefined geographical boundaries and are tied to specific network operators for regulatory or operational purposes.
Country Zone	A grouping of SIMs or network services based on a particular country or set of countries. This allows connectivity and policy management to be optimized for specific regions, ensuring compliance with local regulations and pricing.
Zone Group	A collection of multiple zones, which could include Country Zones, grouped together to apply common rules, policies, or connectivity features. This simplifies network management across multiple locations or regions.

The stages required to implement Availability Zones are shown here.



NOTE: For Step 1 all countries are pre-defined in the system. The Create Country Zone procedure enables you to add to modify associated local Network Operators.

To implement Availability Zones, do these steps:

- Step 1: Create Country Zones
- Step 2: Create Zone Groups.

- Step 3: Assign Zone Group to a new or existing plan.
- Step 4: Attach the plan to a SIM.

6.14.1 Create Country Zones

An Availability Zone limits the usage of one or more SIMs to a specific location by designating the country and operator. Availability Zones can be attached to both Regular and Pool Plans.

A screen capture of the Country Zone page is shown here.

	Country Zones Tab			Create New Country Zone		Create New Country Zor I		
: Dehtort	Plans							
5845	100 A 100	ILAS PLANS		POR PLAN		Annual adda on stands.		
1 Stills Providening								
E Bash Operations	Augusta Marian							
Column A	Availability Zones	100 C						
Res .	Incredient 1	Create country	y zone	• ×		+ 100010	2244	
Packagen		Zone Namer				0	- 10	
Products		•						
My faile Accounts	1.14	2010 Zone Description						
	teat i ferm	-					1	
Providers -	98.2.3#5e/te	Couldy"	•		and in			
Relea & Pers	3.0huanta	- Scherby"		• •			1	
frentl.	60.10	-			CO. MARCHINE			
Augura	And .			Courts (DARATE)	and Dates			
Tables & Not Boattons	And storage	-	_	Contra Interna	States Property Carbon and			
Billing & Parallels	12 (240)		- Contra		manufacture adapt (MY)TTI			
Support.					and the second second		-	

To create a Country Zone, do these steps:

- 1. Select Catalog | Plans from the Navigation sidebar.
- 2. Select the Availability Zones tab.
- 3. Select the Country Zones tab.
- 4. Click +Country Zone to display the country zone properties dialog box.
- 5. Click **Zone Name** field and type a zone name.
- 6. Click the **Zone Description** field and type a zone description (optional).
- 7. Click the **Country** field and select a country from the list.
- 8. Click the **Network** field and select one or more available networks.
- 9. Click **Create** to display the Country Zone in the Availability Zones page.

NOTE: To attach this zone to a plan, you must first assign it to a Zone Group. You must do this even if there is only one Zone.

Create Zone Groups

You must attach a Country Zone to a Zone Group to attach it to a plan. It is the Zone Group that is attached to a plan.

There are various Types of Zone Groups as described in this table.

Type of Zone Group	Description
Country Zones	These are predefined zones and include system configurations that cannot be changed by the user. The list comprises countries without specifying specific Network Operators. When you select a country, all operators within that country are included in the Zone Group
User Zone Group	These are custom zones created by users to meet specific connectivity needs. Users have full control to define these zones by specifying custom parameters such as countries, networks, and operators. This allows for more flexibility in managing SIM usage based on unique business or operational requirements.
Mixed Zone Group	A zone group can contain a mixture of System Country Zones and a User Defined Country Zones.

NOTE: You can attach a single Zone Group or multiple Zones to a plan.



A screen capture of the Zone Group page is shown here.

To create a Zone Group, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the Availability Zones tab.
- 3. Select the **Zones Group** tab.
- 4. Click **+Zones Group** to display the country zone properties dialog box.
- 5. Click **Zone Name** field and type a zone name.
- 6. Click the **Zone Description** field and type a zone description (optional).
- 7. Select on or more **Zones** from the list.
- 8. Click **Create** to display the Zone Group in the Availability Zones page.

NOTE: Now that you have created a Zone Group, you can attach it to a Plan. When a Zone Group is assigned to a Plan, SIM usage is limited to the country-operator pairings in the Zone Group.

6.14.2 Update Country Zone

You can edit the country zone information to reflect changes in network coverage and service details.

A screen capture of Edit Country Zone dialog box is shown here.

		Edit country zone Cost1 Zone	×
A	Zone Name	Zone Name* Cost1 Zone	
в	Zone Description —	Last update august 20234	
С	Country	Country*	*
D	Networks ———	Networks* Pelephone Communication Ltd. (ISRPL)	•
		CA	NCEL UPDATE

To edit the country zone, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the Availability Zones tab.
- 3. Select the Country Zones tab.

- 4. Scroll the table and click a row to display the Edit Country Zone dialog box.
- 5. Edit the Zone Name.
- 6. Add a **Zone Description** (optional).
- 7. Select a **Country** from the list.
- 8. Select a Network from the list.
- 9. Click **Update** to save the country zone settings.

6.14.3 Update Zone Group

You can update Zone Group information to make sure the group information is relevant as network needs change,

A screen capture of Edit Zone Group dialog box is shown here.

		Edit Zones Group APAC Roaming	Х
A	Zone Name ———	Zone Name* APAC Roaming	
B	Zone Description ——	Zone Description APAC Roaming	
C	Select Zones ———	Select Zones* China System, Hong Kong System, Singapore System, Thailand	d Sy*
D	Attached Plan s	Attached Plans	
		CANCEL	UPDATE

To edit the country zone, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the Availability Zones tab.
- 3. Select the **Zone Group** tab.
- 4. Scroll the table and click a row to display the Edit Zone Group dialog box.
- 5. Edit the Zone Name.
- 6. Add a **Zone Description** (optional).

- 7. Select one or more **Zones** from the list.
- 8. Click **Update** to save the country zone settings.

6.15 Types of Plan Actions

All plans are displayed in a table that enables users to display and manage different connectivity plans.

A screen capture of the Plans table is shown here.

											A		В			
Ξ¢	PLANS > REGILAR PLANS										Search		Filter			
[5] Products	Regular Plan	าร														
🖸 My Orders				SELL PLANS							BUY PLANS					
<u>and</u> Dashboard																
🗟 SIMs	Sell Plans												+	PLAN		
Batch Operations	31 items												Q ● ,			Columns
§ Plans	of Herite															Columns
Regular Plans	PLAN NAME	COST	TYPE	ALLOCATED SIMS	DATA	DEVICE DATA LIMIT	SMS	DEVICE SMS LIMIT	PRORATED	RENEWAL PERIOD	ACTIVATION TYPE	AVAILABILITY ZONES	PROVIDERS			
Pool Plans	VF_S_P_DS_UK_250MB	7 GBP	Usage	0	250 MB	-	50	-	No	One Time	First Activity	UK Only	-	:0-	-D	Actions
Availability Zones	1Gb	5 EUR	Usage	0	1 GB	-			No	Monthly	Regular	EU Roaming	EU 2	1		
	NA US1 US2	0 USD	Plan Rate	0	2	2	120		No	Monthly	Regular	Details			- 6	Details
은 My Sub-Accounts	SME prepaid plan	1 EUR	Usage	0	10 MB	-	10	-	No	One Time	Regular	Duplicat	e plan		Ē	Duplicate
录 [®] Providers	Test Kieran	50 EUR	Usage	0	100 GB		1,000		No	Monthly	Regular	Delete			-	Delete
(+-) Rates	M2M_2MB	3.9 USD	Usage	0	2 MB	2	14		No	Monthly	First Activity	-		-	0	Delete
🛱 Events	CustomizedRatePlan1	0 USD	Plan Rate	0	-	-	-	-	No	Monthly	Regular	-	-	:		
Reports	FixRatePlan2	0 USD	Plan Rate	0		2			No	Monthly	Regular	2	2			
ব্ব [¶] Rules & Notifications ↓						7		175X				0	5			
Billing & Invoices	FixRatePlan1	1 USD	Plan Rate	0	-	100 MB	-	-	No	Monthly	Regular		-	:		
Support Support	SOOMB Cap	0 GBP	Usage	0	500 MB	-			No	Monthly	Regular	-	Ξ.	:		

A description of the Plan actions is provided in this table.

	Action	Description
A	Search Plans	Enables you to quickly find specific plans by entering a full or partial plan name. Refer to "Search Plans" on page 134
В	Filter Table	Use the filter action to refine the displayed plans based on criteria, such as plan type, price range, renewal period, activation type, prorated or name of external parameter. Refer to "Filter Plans" on page 132.
с	Select Columns	Customize the table columns to show, hide and order specific data fields in the plans table.
D	Actions	Lists the actions for a specific plan displayed in the table (Details, Duplicate and Delete)
E	View Details	View detailed information about a selected plan. This includes information about plan costs, plan type, assigned SIMS, pricing, activation type, renewal period, availability zones and service providers. Refer to " View Plan Details" on page 129.

	Action	Description
F	Duplicate	Create a copy of an existing plan to replicate similar plans without starting from scratch. When a plan is duplicated, all plan attributes are copied over, allowing users to make any necessary adjustments to details such as rates, availability, or specific features before saving the new plan. Refer to "Duplicate Plan " on page 137.
G	Delete Plan	Remove out-dated or irrelevant plans from the system. Refer to "Delete Plan" on page 136.

6.15.1 Manage Plans

The Manage Plans tab is used to attach Multiple Plans to a SIM; the plans are attached one at a time to the SIM. You can also detach plans from a SIM, one at a time, from this tab. When you attach multiple plans to a SIM, the plans are prioritized. When a SIM is first attached to a Billing Plan, it has the lowest priority; then you can change the priority after you attach the Billing Plan. The priority order of the Billing Plans attached to a SIM enables tiered pricing. You can assign different Billing Plans to different SIMs in the same account. In other words, you can set different rates for different SIMs in the same account.

A screen capture of the Manage Plans tab is shown here:

Plans Add, char	Plans CANCEL Af					
	MRC for Smart Ltd.	b				
	2 200MB + 20 SMS EU	Đ				
+ PL	RN					

Note: You can attach up to four plans per SIM.

To attach Plans to a SIM from the Manage Plans tab:

- 1. Go to the SIMs Info page and click **Manage Plans**. The Manage Plans tab is displayed. The Manage Plans tab shows the Billing Plan(s) that are now attached to the SIM.
- 2. Click + Plan A to add a row showing the Sell Plan field. This indicates that you can only attach a Sell Plan to the SIM.
- 3. Click the **Sell Plan** field. A list of available plans appears.
- 4. Select a plan. The selected plan now appears in the Sell Plan field.
- 6. Click **Apply**. The plan is attached to the SIM in lowest priority.

To change the priority of the plans:

 Change the priority of the plans shown by drag-and-drop of each one into the desired position. The list is in descending priority order with the highest priority plan at the top.

To remove a plan from the list and then detach it from the SIM:

- 1. Select the plan you want to remove and then detach.
- 2. Click the **Delete** icon at the end of the table row with the plan you want to remove and detach from the SIM.
- 3. Click **Apply** to confirm the delete operation.
- 4. To detach the plan from the SIM, click Apply.

6.16 View Plan Details

The View Plan Info page provides a comprehensive overview of the selected plan.

To view the Plan Info page do these steps:

- 1. Select Catalog | Plan from the sidebar.
- 2. Select the Regular or Pool Plans tab. The Sell plans table is displayed (default).
- 3. Scroll the table and click a plan to display the **Plans Info** page.
- 4. Select the **Plan Details** tab to display the plan settings and parameters.
- 5. Select the **Assigned SIMs** tab to display a list SIMs attached to the selected plan.
- 6. Select the **External Parameters** tab to enter a parameter value.

A screen capture of the Plan Info page is shown here.

	A		B		G
	Plan	Details	Assigned SIMs	External	Parameters
⊒∈ [1] Products [2] My Cirders	NENCA ALOS - INNA - IS NO APOLA 200MB + 20 SMS Africa FLN DETALS)	Assort SMS		ECTENNI, PARAMETERS
과 Dashboard					
E SIMS	Plan Details				
Batch Operations § Plans ^	Plan's cost USD 2		Assigned SIMs	Planis Type Usage	
Regular Plans Pool Plans Availability Zones	Available services	MB 20			
' My Sub-Accounts	Activation Strategy				
メ Providers	Activation Type Regular				
(+) Rates					
🗎 Events	Renewal Interval				
Reports Rules & Notifications ~	Ranewal Parisd Monthly				

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The Plan info page contains three tabs as described in this table.

Category	Description
Plan Details	Contains information about the plan type, cost, rates, activation strategy, renewal interval. availability zones and providers.
Assigned SIMs	Provides a comprehensive overview of all SIM cards linked to specific plans, enabling you to track and manage these SIMs.
External Parameters	Contains information about user-defined identifiers mapped with platform system entities such as Accounts, SIMs, and Plans, used for managing platform entities based on user-specific identifiers.

NOTE: The Plan Details tab is different for each type of plan because each plan has a different set of parameters and settings.

6.17 View Plan Instances

The Plan Instances tab contains a table with key information about how a selected plan is associated with a SIM card.

A screen capture of the Plan Instance table is shown here.

	A	В	С	D
	Plan Name I	Plan Instance Tab I	Plan Instance Table I	View Details I
⊒≺ 과 [,] Dashboard G SIMs	PLANS > VINU LAPITOD IN Vinu Laptop Plan (Regular Plan) (Set Plan PLAN DETAILS	PLAN INSTANCES	EXTERNAL PARAMETERS	:
G SIMs Provisioning S Batch Operations S Catalog S Catalog Plans	Plan Instances			Q
Packages Products	ACCOUNT Laptop	PACKAGE -	ALLOCATED SIMS	•:
Accounts				Rows per page: 10 • 1 - 1 of 1 < >

To view the Plan Instances table, do these steps:

- 1. Select **Catalog | Plan** from the sidebar.
- 2. Select the **Regular** or **Pool Plans** tab. The Sell plans table is displayed (default).

- 3. Scroll the Plan table and click a row to display the **Plan Info** page.
- 4. Select the **Plan Instances**tab to view the table of plan instance.

The Plan Instance table includes this information.

Column Label	Description
Account	Displays the name or identifier of the account associated with the plan.
Package	Details the specific package assigned to the account.
Allocated SIMs	Shows the number of SIM cards allocated under that plan.

Users can click on each instance (or row) in the table to open a Detailed Info dialog box.

A screen capture of the Instance Details dialog box is shown here.



The Instance Details dialog box displays this information:

Column Label	Description
No of Allocated SIMs	The total count of SIMs associated with that particular plan instance.
Account Name	he name of the account linked to the plan.
ICCID	The Integrated Circuit Card Identifier for each SIM.
IMSI	The International Mobile Subscriber Identity for network identification.
Status	Indicates the operational status of the SIM, such as active, suspended, or other relevant states.

6.18 Filter Plans

Use the filter action to refine the displayed plans based on criteria, such as plan type, price range, renewal period, activation type, prorated or external parameter values.

NOTE: The Filter tool is generic for all types of Regular and Pool Plans (both Buy and Sell Plans).

Ξr	PLANS > REGULAR PLANS											Filters	Clear All
[s] Products	Regular Plan	ns										Name (2) Clear	^
🕙 My Orders				SELL PLANS									
<u>ান</u> Dashboard												Q Search	
🔂 SIMs	Sell Plans								A	Plan Details		1Gb	
Batch Operations	31 Items											200MB + 20 SMS Africa	
🛐 Plans 🗸 🗸	51 100115											200MB + 20 SMS EU	
음, My Sub-Accounts	PLAN NAME	COST	TYPE	ALLOCATED SIMS	DATA	DEVICE DATA LIMIT	SMS	DEVICE SMS LIMIT	PRORATED	RENEWAL PERIOD		5 Euro Data EU	
メ Providers	VF_S_P_DS_UK_250MB	7 GBP	Usage	0	250 MB	-	50	-	No			5 Euro Data WW	
(··) Rates	1Gb	5 EUR	Usage	0	1 GB		-	-	No			500 MB	
🛱 Events	NA US1 US2	0 USD	Plan Rate	0	-	-	-	-	B	Plan Type		Plan Type	v
Reports	SME prepaid plan	1 EUR	Usage	0	10 MB	-	10	2	C	Renewal	-	Renewal Period	~
୍କେର୍ଣ୍ଣ Rules & Notifications 🗸 🗸	Test Kieran	50 EUR	Usage	0	100 GB		1,000	-	D	Activation	- North	Activation Type	~
R Billing & Invoices	M2M_2MB	3.9 USD	Usage	0	2 MB		-	-	G	Prorated	(Personal)	Prorated	~
O Support	CustomizedRatePlan1	0 USD	Plan Rate	0	-	-			E .	External	(Percent	External Parameters	
贷 Settings	FixRatePlan2	0 USD	Plan Rate	0			~			Parameters	(Barrow)	External rarailleters	v
	FixRatePlan1	1 USD	Plan Rate	0	-	100 MB			No				
	500MB Cap	0 GBP	Usage	0	500 MB				No				
	Toyota	50 EUR	Usage	1	10 GB	-			No			CANCEL	APPLY

A screen capture of the Filter sidebar is shown here.

NOTE: All filter options in the Plans module are optional. However, users must select at least one filter from the various categories provided to initiate a search.

To filter the plan table, do these steps:

- 1. Select **Catalog** | **Plans** from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plans** tab to display the plans table.
- 3. Click the **Filter** icon to display the filter sidebar.
- 4. Click **Name** and select the relevant plan details.
- 5. Click **Plan Type** and select the relevant plan types.
- 6. Click **Renewal Period** and select the relevant renewal options.
- 7. Click Activation Type and select the relevant activation options.

8. Click Prorated and select one of these options:

 $\circ \ {\rm Yes}$

0 **No**

- 9. Click External Parameters and select a parameter name from the list.
- 10. Click **Apply** to update the Plans table with the filtered data.

6.19 Duplicate Plan

You can duplicate a Regular and Pool Plans when you want to create a different plan with similar settings. When you create a duplicate plan the new file carries the same name as the original with the notation **Copy of.**<original plan name>.

A screen capture	of the Duplicate	Plan dialog	box is shown here.
------------------	------------------	-------------	--------------------

bolders Roard S Sell Plans S Protocom S Protocom S Reason S Protocom S Reason S Protocom S Reason S Protocom S Reason S Protocom S Reason S Protocom S Reason S		Type of Duplicate Plan 		licate Plan operties 	SMS Conter Tab 	t			
Odbors Sell Plans Statum	Products Regular Plans		_		×				
A booksons b booksons <td>My Orders Dashboard Sell Plans SiMs</td> <td>Usage - Pan Name*</td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>- 10</td>	My Orders Dashboard Sell Plans SiMs	Usage - Pan Name*			_				- 10
bit bit <td>8 16 items</td> <td></td> <td>C</td> <td>Prorated 🗌 Including platform fee</td> <td></td> <td>ACTIVATION TYPE</td> <td>ARAILABILITY ZONES</td> <td></td> <td></td>	8 16 items		C	Prorated 🗌 Including platform fee		ACTIVATION TYPE	ARAILABILITY ZONES		
Pitra: Pitra data stage of the fuel Activation Strategy © Impair Impair Impair Activation Strategy © Activation Strategy © Impair Impair Impair Activation Strategy © Impair Impair Impair Impair Activation Strategy © Impair Impair Impair Impair Activation Strategy Impair	Plans - Vienget 234	Allowance * Linit *	-						
Addabity Zooke Addabity Zooke Addabity Zooke Addabity Zooke Regular Addabity Zooke Regular	Pool Plans 0105 usage for Max	Activation Strategy 💿							
Addres Addres<	Availability Zones		*		ost when it is				
ets and full standards of the data of the	oviders	Benaval Period*							
oth Market Status Market Status Market Status Market Status s & Notations Market Status * ************************************					· · · · · ·	Regular			
rege tilte det SSS2-etf-leftel = 0	sorts	Expiration type*					n Availability Tana Tant		
	ies & Notifications V	Availability Zones				Regular		- 1 - 15 of 815	

To duplicate a Plan, do these steps:

- 1. Select **Catalog | Plans** from the Navigation sidebar.
- 2. Select the Regular Plans or Pool Plans tab.
- 3. Scroll the table and click the **Actions** icon for a specific plan.
- 4. Select **Duplicate Plan** to display the Duplicate Plan properties dialog box.

NOTE: The Duplicate Plan dialog box contains different settings for Regular and Pool Plans

4. Modify the Duplicate Plan Properties as and click **Create**. The new plan is added to the Billing Plan table.

Detach Plan

The Detach Plan action is available for:

- Single SIMs from the SIMs table
- Multiple SIMs from the SIMs table

On the SIM Info page, plans are detached from a single SIM from the Manage Plans Tab.

To do the Detach plan action:

1. Invoke the Detach Plan action, as described above.

The Detach Plans to SIM dialog appears.

Detach Plans from SI	M	×
Detaching plans car plans.	n change in priorities	s of the
Select plan		
Select Plans for detaching	ng	
Selected Plans		

Detach Plans from SIM

2. Click the Select Plans for detaching field and select a plan(s) from the list.

The plans you select are displayed in the Selected Plans pane.

3. Click Detach.

The selected plans are detached from the SIM(s).

Note: When you detach the SIM from all Billing Plans, all services are discontinued, and the SIM cannot be used until attached to a Billing Plan again. All remaining balances are lost with no monetary compensation.

6.20 Search Plans

The search feature enables you to quickly find specific plans by entering relevant keywords or identifiers. The search function is available for both Sell and Buy plans.

A screen capture of the Search function is shown here.

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≡	PLANS > REGULAR PLANS										S	earch		
§] Products	Regular Plar	ns										1		
My Orders				SELL PLANS							BUY PLANS			
네 Dashboard														
뎚 SIMs	Sell Plans												+	PLAN
Batch Operations	31 Items										Q bearch	•	0 =	ш
키 Plans · ^														
Regular Plans	PLAN NAME	COST	TYPE	ALLOCATED SIMS	DATA	DEVICE DATA LIMIT	SMS	DEVICE SMS LIMIT	PRORATED	RENEWAL PERIOD	ACTIVATION TYPE	AVAILABILITY ZONES	PROVIDERS	
Pool Plans	VF_S_P_DS_UK_250MB	7 GBP	Usage	0	250 MB	-	50	-	No	One Time	First Activity	UK Only	-	:
Availability Zones	1Gb	5 EUR	Usage	0	1 GB	-	-	-	No	Monthly	Regular	EU Roaming	EU 2	1

To search for a plan, do these steps:

- 1. Select Catalog | Plan from the sidebar.
- 2. Select the **Regular** or **Pool Plans** tab. The Sell Plans table is displayed (default).
- 3. Click the **Search** icon to display the Search box.
- 4. Type the full or partial name of existing plan and click **Enter**. The results are displayed in the Plans table.

NOTE: When using the Search feature, you must use either a full or partial plan name. The search is not case-sensitive, meaning that you do not need to match exact spelling or case to locate the desired plans.

6.21 View Assigned SIMs

The Assigned SIMs page provides a comprehensive overview of all SIM cards that are associated with specific plans. This page enables you to easily track and manage the SIMs associated with various plans,

	A	B	C	D
	Account	ICCID	IMSI	STATUS
Ξ<	REGULAR PLANE > MRC FOR SMART LTD.			
Products	MRC for Smart	Ltd.		
] My Orders	PLAN	DETAILS	ASSIGNED SIMS	EXTERNAL PARAMETERS
Dashboard				
SIMs	Assigned SIMs			
Batch Operations	8 SIMs			QIII
Plans ^	ACCOUNT	ICCID	IMSI	STATUS
Regular Plans	Smart Ltd.	8935711001000030012	310380501118000	Active
Pool Plans	Smart Ltd.	8935711001000030871	001201111157957	Active
Availability Zones	Smart Ltd.	8935711001078443972	001201111499417	Suspended
My Sub-Accounts	Smart Ltd.	8935711001000030343	-	Active
Providers	Smart Ltd.	8935711005200099917		Active
Rates	Smart Ltd.	8935711001000030350	222013090957950	Active
Events	Smart Ltd.	8935711001000030863	001201111157127	Active
Reports				
Rules & Notifications 🗸	Smart Ltd.	8935711001000030392	222013090957954	Active

A screen capture of the Assigned SIMS page is shown here.

The Assigned SIMs table displays the information provided in this table.

Column Label	Description
Account	Identifies the user account linked to the assigned SIM.
ICCID	Shows the Integrated Circuit Card Identifier, which is a unique identifier for the SIM card.
IMSI	Displays the International Mobile Subscriber Identity, a unique number associated with the user's mobile network subscription.
Status	Indicates the current operational state of the assigned SIM, such as active or suspended.

To view the Assigned SIMs table, do these steps:

- 1. Select Catalog | Plan from the sidebar.
- 2. Select the **Regular** or **Pool Plans** tab. The Sell plans table is displayed (default).
- 3. Select the **Regular** or **Pool Plans** option from the sidebar menu. The plans table is displayed.
- 4. Scroll the SIMs table and click a row to display the **SIM Info** page.
- 5. Select the **Assigned SIMs** tab to view the table of assigned SIMs.

6.22 Delete Plan

In general, you should remove plans that are not used by your customers. It is recommended that you delete a plan in these circumstances:

- The plan is out-dated or has been replaced by a different plan.
- The plan contains errors or inaccurate information.
- The plan is not used or is no longer needed.

IMPORTANT: You can delete a plan when it is not attached to a SIM. If a plan is attached to a SIM card the delete function is disabled.

A screen capture of the Delete Plan feature is shown here.

≡<	PLANS > REGULAR PLANS													
Products	Regular Plar	าร												
My Orders				SELL PLANS					Pla	n Details	BUY PLANS			
Dashboard									Tha	Details				
SIMs	Sell Plans												+ 1	LAN
Batch Operations	31 Items											Q	Ŧ	ш
Plans 🗸														
My Sub-Accounts	PLAN NAME	COST	TYPE	ALLOCATED SIMS	DATA	DEVICE DATA LIMIT	SMS	DEVICE SMS LIMIT	PRORATED	RENEWAL PERIOD	ACTIVATION TYPE	AVAILABILITY ZONES P	ROVIDERS	
Providers	VF_S_P_DS_UK_250MB	7 GBP	Usage	0	250 MB	-	50	-	No	One Time	First Activity	UK Only -		: •
Rates	16b	5 EUR	Usage	0	1 GB	-	-	-	No	Monthly	Regular	Details		
Events	NA US1 US2	0 USD	Plan Rate	0	-	-	-	-	No	Monthly	Regular	Duplicate pla	in	
Reports	SME prepaid plan	1 EUR	Usage	0	10 MB	-	10	-	No	One Time	Regular	Delete		
	Test Kieran	50 EUR	Usage	0	100 GB	-	1,000	-	No	Monthly	Regular	-		
) Rates } Events) Reports & Rules & Notifications v	NA US1 US2 SME prepaid plan	0 USD 1 EUR	Plan Rate Usage	0	- 10 MB	-			No No	Monthly One Time	Regular Regular	Duplicate pla	in	

To delete a plan , do the steps:

- 1. Select Catalog | Plan from the sidebar.
- 2. Select the Regular or Pool Plans tab.
- 3. Select the **Sell Plans** tab and scroll the table to select the plan you want to delete.
- 4. Click the **Actions** icon and select **Delete**.
- 5. Click **Delete** when the confirmation message is displayed.

6.23 Duplicate Plan

You can duplicate a Regular and Pool Plans when you want to create a different plan with similar settings. When you create a duplicate plan the new file carries the same name as the original with the notation **Copy of.**<original plan name>.

C A В Type of Duplicate Plan Duplicate Plan SMS Content Properties Tab Regular Plans Duplicate reg Sell Plans 10 Conv of 0105 usage for Ma D Pr Available service Data 16 16 n Strategy Repa ailability Zone: Everywhere O White list Providers

A screen capture of the Duplicate Plan dialog box is shown here.

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To duplicate a Plan, do these steps:

- 1. Select Catalog | Plans from the Navigation sidebar.
- 2. Select the **Regular Plans** or **Pool Plans** tab.
- 3. Scroll the table and click the **Actions** icon for a specific plan.
- 4. Select **Duplicate Plan** to display the Duplicate Plan properties dialog box.

NOTE: The Duplicate Plan dialog box contains different settings for Regular and Pool Plans

4. Modify the Duplicate Plan Properties as and click **Create**. The new plan is added to the Billing Plan table.

6.23.1 Assign Value to External Parameters

This page displays the External Parameters defined for the selected Plan and is identical for all types of regular and pool plans.

An example of the External Parameters tab is shown here.

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6.24 How Throttling Works

Throttling is a key feature that enables granular control over data usage. By setting rules and thresholds, administrators can automatically reduce the data speed of SIM cards when predefined limits are reached. This ensures fair use, prevents unexpected overage charges, and optimizes network resource allocation.

6.24.1 Key Concepts

A description of the key concepts related to throttling is provided in this table.

Term	Definition		
API Throttling Control	Programmatic management of SIM throttling through API interactions.		
CMP Throttling Method	Use of the CMP interface to set throttling usage and speed limits for SIMs.		
Fair Use	Policies that define acceptable usage limits for "unlimited" data plans, often enforced through throttling.		
IMSI Range Definition	Defining IMSI ranges helps identify subscribers, manage data usage, and organize accounts effectively.		
PCRF	The Policy and Charging Rules Function is a critical component in managing policy decisions and charging rules for SIMs.		
Multi-Plan	A configuration that allows an account to have multiple active data plans simultaneously, potentially with different rules, allowances, and throttling settings for each plan. Multi-plans are ordered and configured according to priority. The priority of the multi-plan determines which Overage Plan is activated when a depletion rule is triggered.		
Overage Plan	An "Overage Plan" is a secondary data plan that automatically activates when a subscriber exceeds the data allowance of their primary plan (as defined by a Depletion Rule). This plan typically offers continued data access, but potentially at a reduced speed or with different pricing.		
PCRF Rule ID	Identifiers used by the CMP and API Control Method to specify different throttling speeds.		
Plan Depletion Rules	Rules that dictate what happens when a data plan quota is depleted activating an appropriate throttling action.		
Plan Expiration Rules	Rules that dictate what happens when a data plan reaches its expiration date activating an appropriate throttling action.		
Plan Priority Mechanism			
Rules and Alerts	A service enabling users to define rules for monitoring periodic data usage related to specific plans.		
SIM Throttling Control	Management of data speed based on user-defined thresholds to ensure adherence to plan usage allocation.		
White-List Control	Enables user to access a specific URL or IP address even when data has been throttled. This function is often used for SIM top-up or for additional purchase of data plan.		

6.24.2 Throttling Methods

The floLIVE SIM Throttling Control can be implemented using these methods:

• **CMP Method:** This method (a.k.a Threshold Throttling) offers a user-friendly interface to set usage limits for SIMs. When a specified threshold is met, data

speed is automatically reduced until the next reset (e.g. monthly plan renewal) or user self-top-up action.

 API Control: Enables programmatic management of SIM throttling through API interactions. This method requires more technical expertise but allows for greater flexibility and automation.

6.24.3 PCRF Throttling Engine

The Policy and Charging Rules Function (PCRF) is a core network module within the floLIVE platform. It dynamically enforces throttling policies based on predefined rules and subscriber profiles. When a throttling rule is triggered (via CMP Depletion or Expiration Rules), the PCRF receives a notification and adjusts the subscriber's data speed according to the defined PCRF Rule ID. This real-time decision-making mechanism ensures efficient network resource use and fair user experience.

NOTE: The move to the next plan is not done by the Depletion Rule. The move to the next plan is done automatically by the Multi-Plan priority settings mechanism.

6.24.4 PCRF Rule IDs

PCRF Rule ID	Speed	PCRF Rule ID	Speed
1	Unlimited: No throttling	14	2Mb/s
2	10Kb/s	16	3Mb/s
4	512Kb/s	18	5Mb/s
6	1Mb/s	20	7Mb/s
8	256Kb/s	22	10Mb/s
10	320Kb/s	24	20Mb/s
12	1.5Mb/s	26	100Kb/s

The system defined PCRF Rule IDs are listed in this table.

6.24.5 Throttling Rules

FloLIVE enforces throttling by implementation of two CMP rules:

- **Depletion Rule:** This rule triggers a PCRF action when a SIM card data usage plan is depleted. For more information refer to "Plan Depletion Rule" on page 220
- Expiration Rule: The rule triggers a PCRF action when a data plan reaches its expiration date (e.g. data plan valid for 30 days). For more information, refer to "Plan Expiration Rule" on page 222.

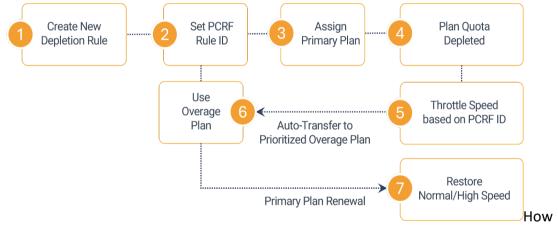
6.25 Plan Depletion

A description of how the Plan Depletion action works is provided in this table.

Feature	Description	
Trigger	Triggered when the data usage of a specific data plan for a SIM card is depleted (e.g. the user used 1GB of data from a prepaid 1GB data plan.).	
Focus	Data consumption.	
Action	Triggers the PCRF module to start throttling.	
Primary Use Case	Managing data usage within a specific allowance and transitioning users to a different plan after the allowance is exhausted.	

NOTE: To implement a Plan Depletion action, refer to the "Plan Depletion Rule" on page 220.

A flowchart of the Plan Depletion process is shown here.



Plan Depletion Works

The Plan Depletion action is implemented as follows:

- 1. **Initial State:** A SIM is active with an assigned data plan and a Depletion Rule is set up within the CMP.
- 2. Data Usage Monitoring: The CMP continuously monitors SIM data usage.
- 3. **Plan Depleted:** When the SIM primary data usage plan is depleted as defined in the Depletion Rule a throttling action is activated based on the PCRF ID..
- 4. Throttling Action:

• The CMP triggers throttling action.

• The PCRF is notified and enforces the throttling speed associated with the configured PCRF Rule ID.

 $\,\circ\,$ The SIM's data speed is reduced.

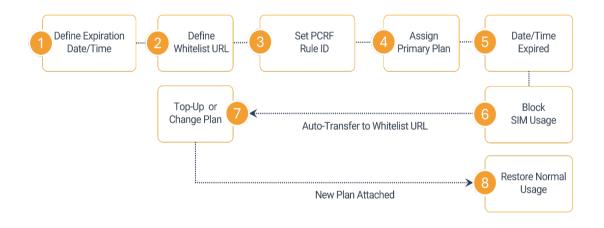
 The SIM is automatically transferred to the configured "Overage Multi-Plan" or similar prioritized plan.

5. **Continued Usage (Overage Multi-Plan):** The user continues to have data access, but potentially at a lower speed.

6.26 Plan Expiration

A description of how the Plan Expiration action works is provided in this table.

Feature	Description	
Trigger	When a data plan reaches its expiration date.	
Focus	Time-based.	
Action	User is redirected to a whitelisted URL.	
Primary Use Case	The purpose is to prompt users to renew or purchase new data plans when their current plan expires.	



NOTE: To implement a Plan Expiration action, refer to the "Plan Expiration Rule" on page 222.

A flowchart of the Plan Expiration process is shown here.

The Plan Depletion action is implemented as follows:

- 1. Initial State: A SIM is active with a data plan and an Expiration Rule is set up within the CMP.
- 2. Expiration Monitoring: The CMP monitors the plan expiration date.
- 3. Plan Expiration: The plan reaches its expiration date.

4. Rule Action:

 $\,\circ\,$ The CMP triggers the expiration action.

 \circ The SIM can only access a preconfigured whitelisted URL/IP address (e.g.,

used for purchasing new SIM data plan).

5. **User Action Required:** The user must take action on the whitelisted URL (e.g., renew the plan, purchase a new plan) to restore normal data service.

6.26.1 Throttling Scenarios

Multi-Plans can be configured to achieve different scenarios, along with the associated rules for managing data usage and expiration.

The three common scenarios include:

- One-Time Unlimited Fair-Use Scenario
- o Monthly Renewal Unlimited Fair-Use Scenario
- Limited Usage Scenario

One-Time Unlimited Fair-Use Scenario

This example demonstrates a Multi-Plan setup for an "unlimited" data plan with a fair-use policy enforced through throttling.

An example of this scenario is provided in this table.

Multi Plans		
	0	Cost: \$1
Plan 1	0	Quota: 1GB
Usage Plan	0	Renewal Strategy: One-time
	0	Expiration: 30 days
Plan 2 Account Rate	 Defines the rates for data usage after Plan 1 quota is exhausted 	
Plan Rules		
Depletion Rule	0	Applies to: Plan 1, PCRF Rule ID: 2 Action: Enable throttling when Plan 1 1GB quota is depleted
Expiration Rule	0	Applies to: Plan 1, PCRF Rule ID: 100
		•• •

Multi Plans	
	• Action: Allow access to a whitelisted URL when Plan 1 expire
How It Works	

This setup provides an initial 1GB of high-speed data (Plan 1). When the 1GB is used, the connection is throttled (Plan Depletion Rule). After Plan 1 expires, the user is allowed to connect only to a whitelisted URL, likely to renew the plan (Plan Expiration Rule).

NOTE: The whitelist URL is automatically disabled when the SIM is attached to a new Plan.

Monthly Renewal Unlimited Fair-Use Scenario

This example demonstrates a Multi-Plan setup for an "unlimited" data plan with a fair-use policy enforced through throttling.

An example of this scenario is provided in this table.

Multi Plans		
	0	Cost: \$1
Plan 1 Usage Plan		Quota: 1GB Renewal Strategy: Monthly Renewal
Plan 2 Account Rate		Defines the rates for data usage after Plan 1 quota is usted
Plan Rules		
	0	Applies to: Plan 1, PCRF Rule ID: 2
Depletion Rule	0	Action: Enable throttling when Plan 1 1GB quota is depleted
How It Works		
This setup provides	an initial	1GB of high-speed data (Plan 1). When the 1GB is used, the

This setup provides an initial 1GB of high-speed data (Plan 1). When the 1GB is used, the connection is throttled (Plan Depletion Rule). The connection automatically returns back to high-speed (i.e. PCRF Rule ID=1) at the start of the next renewal date of the primary plan (i.e. Plan 1).

Limited Usage Scenario

This example demonstrates a Multi-Plan setup for a limited-usage data plan.

An example of this scenario is provided in this table.

Multi Plans	
	• Cost: \$1
Plan 1	• Quota: 1GB
Usage Plan	 Renewal Strategy: One-time
	• Expiration: 30 days
Plan 2	• Defines the rates for data usage after Plan 1 quota is
Account Rate	exhausted
Plan Rules	
	• Applies to: Plan 1, PCRF Rule ID: 100
Depletion Rule	• Action: Allow access to a whitelisted URL when Plan 1 1GB
	quota is depleted
	• Applies to: Plan 1, PCRF Rule ID: 100
Expiration Rule	• Action: Allow access to a whitelisted URL when Plan 1
	expires.
How It Works	
only to a whitelisted	en the 1GB is used or Plan 1 expires, the user is allowed to connect URL (Plan Depletion and Plan Expiration Rule). The whitelisted URL Plan 1 expired or reached its 1GB quota.

NOTE: The whitelist URL is automatically disabled once the SIM is attached to a new Plan.

6.27 API Control Method

The API Control method enables programmatic management of SIM throttling through API interactions. This method requires support configuration for allocation of PCRF ID options and for access to specific tables governing throttling speed. With this method, users can set up notifications via HTTP push or email when usage limits are approached.

To implement the API Control method, make sure you fulfil these basic requirements:

1. **Prepare and Configure IMSI Ranges:** This step enables users to identify subscribers, manage data usage and apply different rules based on their usage or plans.

- 2. **Request for PCRF Configuration:** Contact floLIVE support to configure PCRF ID options essential for API control.
- 3. Access PCRF Tables: Utilize the tables provided by the support team to define throttling speed configurations. For example, PCRF ID=1 is high speed data, while PCRF ID=8 is low speed 256 Kb/s)
- 4. **Execute API Calls:** Use the appropriate API calls with the PCRF IDs provided to set up throttling per your requirements.
- 5. **Create Notification Rules:** Set rules for notifications, ensuring HTTP push is configured to trigger when thresholds are met.

Prepare and Configure IMSI Ranges: This step enables users to identify subscribers, manage data usage and apply different rules based on their usage or plans.

TIP: For more information, refer to the Modify Subscriber PCRF Settings API.

6.28 Package Guidelines

A Package is designed to contain one or multiple plans up to the maximum allowed for a single subscriber. Each package may contain these types of plans:

- **Regular Type Plans:** Usage, Money, Account Rate, Plan Rate.
- **Pool Type Plans:** The pool plans must be different.
- **Hybrid Plans:** Consists of both regular and pool plans.

Make sure you use these guidelines when you create a package.

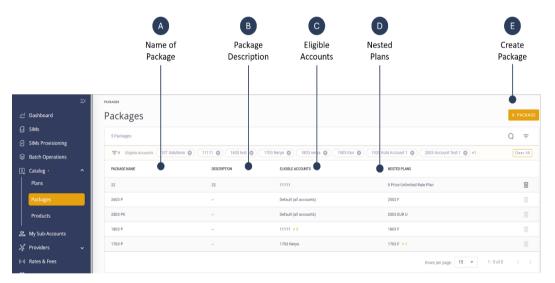
Action	Description			
Package Creation	There are no restrictions regarding the number of Packages that you can create.			
Package Deletion	A Package can only be deleted from the catalog if it is detached from the SIM. When you delete a Package, all included plans within the package are automatically removed.			
Package Modification	 Name: When you set the Package Name, it cannot be changed. Description: Modifications to the Package Description can be performed at any time. Eligibility: Adjustments to the eligibility of sub-accounts can be made as needed. 			

Action	Description
	 Nested Plans: The addition, removal, or priority changes of nested plans are permitted, provided that no SIM is currently attached to the Package.
	Ŭ

It is important to note these limitations when you attach a package to a SIM.

- 1. The sub-account is tagged as 'Allow customer to attach SIMs to Buy Plan/Package' by the parent account.
- 2. There is at least one Plan/Package marked as eligible for use by the sub-account.
- 3. A SIM may only be attached to either a Package or individual Plan(s) at any given time, but not both simultaneously.

A screen capture of the Packages page is shown here.



The Package page contains list of defined packages. For each package, the table displays the information described in this table.

Property	Description
Package Name	A short name to identify the package.
Package Description	A detailed free-text field that describes the package, the included plans, and terms. For example, "Onetime activation fee: \$1 + monthly \$2 including 1GB US only + \$1.5 for 500MB EU only and generic account rate for using in the rest of the world."
Eligible Accounts	Defines which sub-accounts can manage the package based on settings from the parent account. A package can be attached to any of these account options: all sub-accounts;

Property	Description
	multiple sub-accounts; a single sub-account or no sub-accounts.
Nested Plans	The specific plans incorporated within the Package.

6.29 Create New Package

You can create a Sell Package and attach to your sub-account SIMs, or enable your sub-accounts to Self-Attach the plans you create.

NOTE: There are no restrictions regarding the number of Packages that you can create.

To create a new package, do these steps:

- 1. Select **Catalog | Packages** from the sidebar menu.
- 2. Click + Package to display the Create New Package dialog box.
- 3. Type a **Name** for the new package.
- 4. Add a short **Description** for the new package.
- 5. Go to the **Nested Plans** group and click the + button.
- 6. Select one or more Plans to include in package.
- 7. Click **Create** to save package.

NOTE: You can add remove or reorder the plan priority in the **Nested Plans** group.

A screen capture of the Create New Package dialog box is shown here.

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		Name of Package	Package Description	Eligible Accounts	Nested Plans	Add Plan	Create Package
≣< Dashboard SIMs	PACKAGES Packages						<mark>+ масил</mark> Q –
SIMs Provisioning Batch Operations Catalog		Create Package				×	
Plans Packages Products		Name* Description	•				
My Sub-Accounts Providers		Eligible Accounts		•		-	
Rates & Fees Events		Nested Plans Note: you can add, remove and re	order plans priority			•	
Reports Rules & Notifications 🗸 🗸		1 Plan*			٠	• ×	
Billing & Invoices Settings					CANCEL	CREATE	

6.30 View Package Details

To view the package details, do these steps:

- 1. Select **Catalog | Packages** from the sidebar menu.
- 2. Click a **Package** from the list to display the **Package Details** page.

The Package Details page displays the information described in this table.

Property	Description
Package Name	A short name to identify the package.
Package Description	A detailed free-text field that describes the package, the included plans, and terms. For example, "Onetime activation fee: \$1 + monthly \$2 including 1GB US only + \$1.5 for 500MB EU only and generic account rate for using in the rest of the world."
Eligible Accounts	Defines which sub-accounts can manage the package based on settings from the parent account. A package can be attached to any of these account options: all sub-accounts; multiple sub-accounts; a single sub-account or no sub- accounts.
Nested Plans	The specific plans incorporated within the Package.

A screen capture of the Package Details page is shown here.

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	Name of Package	Package Description	Eligible Accounts	Nested Plans	Create Package
≣< ! Dashboard SiMs	Packages				+ PACK
SIMs Provisioning Batch Operations	5 Packages		a 🕲 1803 nerva 🕲 1903 lhor 🕲	1905 Kobi Account 1 () (2003 Account Test 1 () +1	Clear
Catalog • ^ Plans	22		1111	0 Price Unlimited Rate Plan	E
Packages	2603 P	- D	efault (all accounts)	2503 F	
Products	2503 PK	- D	efault (all accounts)	2503 EUR U	
My Sub-Accounts	1803 P	- 1	1111 +2	1803 F	
			703 Nerya	1703 F +1	

6.31 Assign Account Eligibility

The Assigned Accounts tab enables users to view the SIMs attached to a package per account.

To view the assigned accounts for a package, do these steps:

- 1. Select **My Sub-Accounts** from the sidebar menu.
- 2. Click a Sub-Account from the list to display the **Sub-Account Details** page.
- 3. Check the Allow Customer to Attach SIMs to Buy Plan/Package option.
- 4. Click **Update** to save sub-account settings.

An example screen capture of the Sub-Account Details page is shown here.

		Allow Custo Attach SIMs t			B Update Sub-Account
≡<	MY SUB-ACCOUNTS > PARENT_ACCOUNTS				
<u>util</u> Dashboard	parent_accou	nt_126/3/			
🔂 SIMs	ACCOUNT	CONTACTS	ADDRESSES	BILLING & INVOICE	EXTERNAL PARAMETERS
SIMs Provisioning					
Batch Operations	Account				UPDATE
§ Catalog ^ Plans	8	Account Name* parent_account_126737		Currency* EUR	~
Packages	Drag a logo here	VAT Identification No			
Products	*Formate JPG/JPEG/PNG - leas than 500KB	Count by Active*	Ŧ	Activity Indication*	•
炭 Providers		Allow customer to attach SIMs to Buy Plan/Packa	ige		
(··) Rates & Fees		Allow customer to lock SIM with a device (IMEI)			
🛱 Events		Hide connectivity rates			
Reports					
द्री Rules & Notifications 🗸		Connectivity Service Provider	an baha M		
🗟 Billing & Invoices		Display SIM account hierarchy Allow login	on benair		
愆 Settings		MFA 💿 🔿 Mandatory 🔿 Enabled	Disabled		

6.32 Self-Attach Buy Package

The Self-Attach Buy Packages feature enables sub-accounts to manage their SIM cards by attaching or detaching a Buy Package. The Buy Packages are originally created by the parent.

To Self-Attach a Buy Package, make sure these pre-conditions are met in full:

- The sub-account must be tagged as 'Allow customer to attach SIMs to Buy Plan/Package' by the parent customer.
- At least one Package must be marked as eligible for use by the sub-account.

A screen capture of the Self-Attach Package dialog box is shown here.

		В	
		List of Attach / Buy Plan / Package Pack	Replace kage
<u></u> 교 <u>에</u> Dashboard	sins SIMs		
🔂 SIMs			
 SIMs Provisioning Batch Operations 	П ксер		IN DATA SESSION DATA E
5 Catalog	89357999013013098978	- Attach Package to SIM (ICCID: 89357999013013098982) X -	= No · ·
Plans	89357999013013098980	· · · · · · · · · · · · · · · · · · ·	= No - 1
Packages	89357999013013098982	SELL PACKAGES BUY PACKAGES	(ii) Suspend
Products	89357999013013098979	- Package*	G Move
	89357999013013098984	Service Package	🧷 Edit Alias
음, My Sub-Accounts	89357999013013098985		S Manage labels
メ Providers (い) Rates & Fees	89357999013013098983		Send SMS
Events	89357999013013098976	CANCEL ATTACH	Reload SIM
Reports	89357999013013098977		Attach/Replace package
Rules & Notifications	89357999013013098981	- Profile 1 Active Subscriber Pro	No
Billing & Invoices			
(C) Support		Rows per page: 15	▼ 1-10 of 10 < >

To Self-Attach a Buy Package, do these steps:

- 1. Select **SIMs** from the sidebar menu.
- 2. Select a SIM row listed in the table and click the Action menu on the right-side.
- 3. Click the **Attach/Replace** Package option.
- 4. Select the **Buy Packages** tab.
- 5. Select a **Package** from the list.
- 6. Click **Attach** to attach the package to the SIM.

6.33 View Assigned Accounts

The Assigned Accounts tab displays a list of sub-accounts that use (assigned?) to the selected package. The package name is displayed at the top of the page. For each sub-account, a list of SIMs that are assigned to the associated package.

To view a list of assigned accounts, do these steps:

- 1. Select Catalog | Packages from the sidebar menu.
- 2. Click a **Package** from the list to display the **Package Details** page.
- 3. Select the **Assigned Accounts** tab to display the accounts assigned to the selected package.



A screen capture of the Assigned Accounts tab is shown here.

6.34 Modify Package

You can modify the package description, eligibility of sub-accounts and make changes to the package content.

NOTE: You cannot change the Package Name

A screen capture the Edit Package Details page is shown here:

To edit a package, do these steps:

1. Select **Catalog | Packages** from the sidebar menu.

- 2. Click a **Package** from the list to display the **Package Details** page.
- 3. Edit the package **Description**.
- 4. Select one or more Eligible Accounts.
- 5. To edit the list of Nested Plans, select these options:
 - \circ Add Plan
 - $\circ\,$ Remove Plan
 - Change Priority
- 6. Click **Update** to save package details.

6.35 Delete Package

A Package can only be deleted from the catalog if it is detached from the SIM. When you delete a Package, all included plans are automatically removed from the package.

To delete a package, do these steps:

- 1. Select **Catalog | Packages** from the sidebar menu.
- 2. Select a **Package** from the list and click the **Delete**on the right-side of the row.
- 3. Click **Delete** to remove package complete delete operation.

An example of the delete package screen is shown here.

			A List Packa	of		B Delete Packag		
프 - <u></u> Dashboard	x	Packages					+	PACKAGE
😥 SIMs		4 Packages					Q	Ŧ
 SIMs Provisioning Batch Operations 		PACKAGE NAME	DESCRIPTION		ELIGIBLE ACCOUNTS	NESTED PLANS		
S Catalog • ^		Corporate Package	Fusce posuere, magna sed pulvinar ultricies, purus l	lectus malesuada libero	parent_account_108486 + 35	Automation floLive Default plan 1064844 +		Î
Plans		Pro Package	Maecenas porttitor congue massa.)	parent_account_159612	Automation floLive Default plan 1064844 +		
Packages		Basic Package	Lorem ipsum dolor sit amet, consectetuer adipiscing	g elit.	parent_account_100038	Automation floLive Default plan 1018939 +2		Ū
Products		MyPackage	Lorem ipsum daeda doritos impressio litm		Default (all accounts)	Automation floLive Default plan 1036821		Î
의 My Sub-Accounts						Rows per page: 15 - 1 - 4	4 of 4	
Providers								

6.36 Edit External Parameters

To edit the external parameters for a package, do these steps:

- 1. Select Catalog | Packages from the sidebar menu.
- 2. Click a **Package** from the list to display the **Package Details** page.
- 3. Select the **External Parameters** tab to display a list external parameters associated to the selected package.
- 4. Modify the appropriate parameter values.
- 5. Click **Update** to save the parameter values.

A screen capture of the External Parameters tab is shown here.

	A List External Pa	of		Update Parameters
EX 11 Dashboard 31Ms 31Ms Provisioning 32 Batch Operations 33 Catalog 44 Plans 47 Packages 47 Products 33 My Sub-Accounts	PACAGE I 1189 P 1803 P PACKAGE DETAILS External Parameters Drastert Package Paremeter 1 Drasterz Package Parameter 2	ASSIGNED ACCOUNTS	EXTERNAL PARAMETERS	UFDATE & &

7 My Sub Accounts

The CMP Sub Account Module enables users to create and manage sub-accounts linked to a parent account. These sub-accounts enable customers to segment and delegate control over specific sets of SIM cards or connected devices.

The Sub-Accounts module contains a table that displays a comprehensive list of all subaccounts defined within your account. This table serves as a centralized repository for managing and organizing sub-accounts, providing key details for easy reference and management.

Here is an example of the Sub-Account table.

зив-ассоинтя Лу Sub-Accounts				+ ACCOUNT
1057 Sub-Accounts			Q	÷φ
ACCOUNT NAME	SUB ACCOUNTS	SIMS		
US Cellular Test Account	0	0		Ĩ
0204 exp test nerya	0	20		
0204 nerya	0	4		
0304 pool exp test	0	20		
0404 nerya	0	20		

The Sub-Account table contains these columns:

Column Name	Description
Account Name	Displays the name of each sub-account, providing a clear identifier for easy recognition and reference.
Number of Sub- Accounts	Indicates the number of sub-accounts associated with each account. This count helps users gauge the level of segmentation and hierarchy within the account structure.
Number of SIMs	Specifies the total number of SIM cards associated with each sub-account. It provides insights into the scale and scope of connectivity resources managed under each sub-account.

The platform supports four account levels, root account and three sub-account levels below the root account. If your account is at sub-account level four, you cannot create a new sub-account of your own and the **+ACCOUNT** option is not displayed.

7.1.1 Basic Account Parameters

To create a new account, you need to define these parameters to identify the account.

- **Required**: Account Name, Currency, and account security settings
- **Optional**: VAT Identification, and Billing Cycle definition

7.1.2 Account Restrictions

When you create an account, you can apply these restrictions:

- Allow customer to attach SIMs to Buy Plans: This option enables the customer to attach SIMs to a Billing Plan created by the Parent account.
- Display SIM account hierarchy: This option is restricted to root and MNO accounts. When the parent account activates this option, the sub-account can view the complete SIM hierarchy from the new sub-account down (to a maximum fourth level). When the root account doesnot activate this option (default setting), the sub-account can only view the SIM hierarchy down one level to its child account level.

NOTE: When you create the new account, the system sets invoice configuration parameters to their default values.

7.2 Create Sub-Account

To create a new sub-account, do these steps:

- 1. Select **My-Sub Account** from the sidebar menu.
- 2. Click the **+ACCOUNT** button to display the Create New Account dialog box.
- 3. Type the new account name in the Account Name field.
- 4. Click on **Currency** and select the account default currency used to invoice this new account (Optional).
- 5. Type your tax number in the VAT Identification No field (Optional).
- 6. Click **Billing Cycle Definition** and select an item from the list.
- 7. Check one or more items to **Define a List of Eligible Billing Cycle Definitions**.

- 8. Enable **Allow Customers to Attach SIMs to Buy Plans** to allow this sub account to attach its SIMs to buy plans (Optional).
- 9. Check the **Hide Connectivity Rate** to hide the connectivity rates for this sub account (optional).
- 10. Check Connectivity Service Provider to enable these options:

• Check the **Display SIM account hierarchy** checkbox to allow this new subaccount to view the SIM hierarchy from the SIM Info page.

 Check Allow Login on behalf to enable an Administrator to login to the system and perform actions on behalf of others.

- 11. Select one of these Mufti Factor Authentication **MFA** options:
 - Mandatory: All sub-account user must use MFA Login method.
 - \circ Enabled: All sub-account user may use the MFA Login method.
 - \circ Disabled: MFA option is disabled for users of this sub-account.
- 12. Click **Save**. The new sub-account is created and its index card appears on the My Sub-Accounts page.

Here is a screen capture of the Create New Account dialog box.

Create New Account		×
VALIDentification No		
Assign Billing Cycle Definition		
Billing Cycle Definition*		+
Define list of eligible billing cycle definitions		
Eligible billing cycle definitions		-
Allow customer to attach SIMs to Buy Plans		
Connectivity Service Provider		
Display SIM account hierarchy Allow login on behalf		
MFA 💿 🛞 Mandatory 🔘 Enabled 🔘 Disabled		
	CANCEL	SAVE

7.2.1 Add New Contact

To add a new contact, do these steps:

1. Select **My-Sub Account** from the sidebar menu.

- 2. Click an account in the table to display the account details page.
- 3. Select the **Contacts** tab.
- 4. Click the + Contact button to display the Create New Contact page.
- 5. Enter information for all the contact fields and click **Create**.

Here is a screen capture of the Create New Contact page.

← Create New Contact				CANCEL CREAT
Greeting *	٠			
First name *		Middle name	Last name *	
Email *		Phone *	Mobile Phone Number	

Add New Address

To add a new address, do these steps:

- 1. Select **My-Sub Account** from the sidebar menu.
- 2. Click an account in the table to display the account details page.
- 3. Select the Addresses tab.
- 4. Click the + Address button to display the Create New Address page.
- 5. Enter information for all the contact fields and click **Create**.

Here is a screen capture of the Create New Address page.

Create New Address	S		CANCEL CRE
Address type *		Salutation	Full name *
Title		Company	
Country *	Ŧ	State	Province
City *		Street Address *	Building number
Building name		Building floor	Apartment number
Entrance		Zip code *	poBox
Email			

Define Billing Cycle

The billing cycle refers to the period of time over which usage of SIM cards is measured for billing purposes. This ensures that customers are accurately billed for SIM usage. To define a billing cycle do these steps:

1. Select **My-Sub Account** from the sidebar menu.

- 2. Click an account in the table to display the account details page.
- 3. Select the Billing & Invoice tab.
- 4. Select the **Billing Cycle Definition** option.
- 5. Enter a **Name** for the billing cycle.
- 6. Specify the **Period Type** (monthly annually etc.).
- 7. Specify the **Start Day** of the billing cycle.
- 8. Select the Invoice Format (PDF or XML).
- 9. Specify the **Next Billing Cycle Date**.
- 10. Add a **Description** with additional information or comments (optional).
- 11. Click **Update** to save billing cycle.

All field denoted by an * asterisk are mandatory.

Here is a screen capture of the billing cycle information page.

Billing & Invoice					UPDATE
Billing Cycle Definition	Invoice Confi	guration			
_{Name} « System BCD	Ŧ				
Period Type ANNUALLY		Start Day 1	Invoice Format XML	Next Billing cycle date 2023-12-07T00:00:00Z	
Description					

Configure Invoice

To configure an invoice, do these steps:

- 1. Select **My-Sub Account** from the sidebar menu.
- 2. Click an account in the table to display the account details page.
- 3. Select the Billing & Invoice tab.

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- 4. Select the Invoice Configuration option.
- 5. Select a **Delivery Method** (Email, Postal, EDI).
- 6. Specify the number of days in the **Payment Due After Invoice Issue**.
- 7. Specify the required **VAT** percentage.
- 8. Add additional information in the **Invoice Text** field.
- 9. Specify the **Device Cost**.
- 10. Select a **PDF Invoice** Template.
- 11. Select an **XML Invoice** Template.
- 12. Click **Update** to save invoice configuration.

NOTE: Any field denoted by an * asterisk is mandatory.

Here is a screen capture of the Invoice Configuration page.	

Billing & Invoice					UPDATE
Billing Cycle Definition Invoice Configuration	-				
Delivery Method* EMAIL	Ŧ	Payment Due After Invoice Issued* 90	DAYS	VAT O	%
Invoice Text					
Device Cost* O					USD
PDF invoice template Default PDF	•	XML invoice template Default XML	¥		

These default invoice configuration parameters are automatically defined when you create a new sub-account.

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Paramet er	Description
Charge by Active	 The designated Active device determines how the sub-account is being charged per SIM: IMSI: When the account charges a customer by an Active IMSI, the customer is charged according to the number of activated IMSIs. SIM: When the account charges a customer by an Active SIM, the SIM is charged uniformly, regardless of the number of IMSIs used (for example, SIMs that are using multiple IMSI profiles) Range: IMSI, SIM Default: SIM
Activity Indication	 The sub-account is charged in one of these methods: Network Registration: The account charges a customer when a device is registered to the mobile network Data Activity: The account charges a customer when a device engages in any activity that consumes Data (including SMS messages) Range: Network Registration, Data Activity Default: Network Registration
Device Cost	The set cost (of ownership or of possession) of the device being charged (apart from usage charged by the Billing Plan) Range: Any integer or decimal value for Currency set in the account. For example: 1 USD, 300 RSD, 0.55327 EUR, 0.07 GBP Default: 0 <currency account<="" in="" set="" td="" the=""></currency>

7.3 Edit Sub-Account

To edit a Sub-Account do these steps:

- 1. Select My-Sub Account from the sidebar menu.
- 2. Click an account listed in the Sub-Account table. The Sub-Account details are displayed.

3. Edit the Sub-Account details and click Update

Here is a screen capture of the Sub-Account Details page.

MY SUB-ACCOUNTS > OLGA1 34							
olga1 34							
ACC	OUNT	CONTACTS	ADDRESSES	INVOICE CO	INFIGURATION	EXTERNAL PARAMETER	RS
Account	Account Hame * olga1 34 Allow customer to a Display SIM account	attach SIMs to Buy Plans t hierarchy	Currency* USD	*	VAT Identification No	RESET	UPDATE

Edit Contact

To edit a contact, do these steps:

- 1. Select **My-Sub Account** from the sidebar menu.
- 2. Scroll the list of accounts and click the **Options** icon for a selected account.
- 3. Click **Edit** to display the account details page.
- 4. Select the **Contacts** tab.
- 5. Edit the contact details and click **Save Changes**.

Edit Address

To edit an address, do these steps:

- 1. Select **My-Sub Account** from the sidebar menu.
- 2. Scroll the list of accounts and click the **Options** icon for a selected account.
- 3. Click **Edit** to display the account details page.
- 4. Select the Addresses tab.
- 5. Edit the contact details and click Save Changes.

Billing & Invoice

To edit billing and invoice information for a sub-account, do these steps:

- 1. Select My-Sub Account from the sidebar menu.
- 2. Scroll the list of accounts and click the **Options** icon for a selected account.
- 3. Click **Edit** to display the account details page.
- 4. Select the **Billing & Invoice** tab.
- 5. Edit the billing and invoice details and click **Update**.

7.4 Delete a Sub-Account

You can only delete an account only if it does not contain any assigned SIMs.

To delete an account, do these steps:

- 1. Select My-Sub Account from the sidebar menu.
- Scroll the table of accounts and click the Trash icon to delete the selected account.
- 3. Click **Delete** to confirm removal of the account.

7.5 Hide Connectivity Rate

This feature enables parent accounts to restrict access to the connectivity rates for certain sub-accounts. The need for this feature is because some Service Providers (SP) or Mobile Network Operators (MNO) offer only package plans to their sub-accounts and may not want to allow access to the connectivity rates view.

NOTE: When you hide the connectivity rate for an account, all child accounts inherit this limitation and cannot view the price of the connectivity rate.

7.5.1 How It Works

This hide connectivity rate is based on these principles:

- Parent Account Control: The parent account (e.g., "A") can choose to hide the option to access connectivity rates for its sub-accounts. In this case, sub-accounts will not be able to view the connectivity rates. The sub account is still able to access the rates module in order to allow the sub account available networks view.
- Cascade Effect: A process in which the creation of a new sub-account (e.g., "C") under an existing sub-account (e.g., "B") prevents the new sub-account from accessing connectivity rates. This effect ensures consistent access control throughout all levels of sub-accounts..

7.5.2 Hide Connectivity Rate for New Account

To hide connectivity rates for a new account, do these steps:

- 1. Select My Sub-Accounts from the sidebar menu.
- 2. Click the +Account button to display the Create New Account dialog box.
- 3. Scroll down and check the Hide Connectivity Rate check box.

Here is an example screen capture of the Hide Connectivity Rate Feature for a New Account

7.5.3 Hide Connectivity Rate for Existing Account

To hide connectivity rates for an existing account, do these steps:

- 1. Select My Sub-Accounts from the sidebar menu.
- 2. Scroll the table and select and account to display the **Account Details** page.
- 3. Select the **Account** tab.
- 4. Check the Hide Connectivity Rate option.

Here is an example screen capture of the Hide Connectivity Rate Feature for an Existing Account

612 nerya	constra analisa		41,041 h (10,001)	1000000 PARAD (01)
Account				and a
	in the second se		200	
	with the second se			
		12	and report Network Reports	12
	Characteristic contractions			
	The second secon			
	And the second secon			
	anti 🗧 🔘 Sanatari 🔘 Sanatari 🌞 Sanatari			

7.6 Multi-Factor Authentication

Multi-factor authentication (MFA) is a security mechanism that requires users to provide two or more forms of verification before granting access to an account or system. This adds an extra layer of security beyond just a username and password, making it harder for unauthorized users to gain access.

- **Enabled:** Users have the option to set up additional authentication methods for their accounts (in addition to username and password), but this is not mandatory.
- Mandatory: Users are required to set up and use additional authentication methods when creating a new account or accessing an existing one. This means that users cannot bypass the setup process for MFA; they must go through it to gain access.
- **Disabled:** When MFA is disabled, users are not prompted or required to set up additional authentication methods beyond the basic username and password.

Setup MFA for New Account

To set up multi-factor authentication for new accounts, do these steps:

- 1. Select Sub-Accounts from the sidebar menu.
- 2. Click +Account to display the Create New Account dialog box.
- 3. Fill in the account details.
- 4. Scroll down and select one of these MFA options:
 - o Mandatory
 - Enabled
 - Disabled
 - 5. Click **Save** to update account in system.

Here is a screen capture of the MFA options.

Create New Account	×
VAI Identification No	
Assign Billing Cycle Definition	
Billing Cycle Definition*	*
efine list of eligible billing cycle definitions	
Eligible billing cycle definitions	-
Allow customer to attach SIMs to Buy Plans	
Connectivity Service Provider	
Display StM account histarchy Allow login on behalf	
dFA 💿 🧿 Mandatory 🔘 Enabled 🔵 Disabled	
CA	NCEL SAVE

7.7 Allocate Products

To allocate a product to a sub-account, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Select the **Product Allocation** tab.
- 3. Select the Allocated to Sub-Accounts tab.

- 4. Click +Allocation to display the Allocate Product to Account dialog box.
- 5. Select one or more accounts from the list of Accounts.
- 6. Select one or more products from the list of **Products**.
- 7. Click **Create** to allocate the selected products to the accounts.

A screen capture of the Allocate Product to Account dialog box is shown here.

		List of Accounts	List of Products	Allocate to Sub Accounts tab		+Allocate Action
E.	PRODUCTS					
신 Dashboard	Products					
SIMs		PRODUCT CONFIGURATION	PRODUCT ALLOS			
] SIMs Provisioning						
Batch Operations						
🗋 Catalog 🔷 🔨	Product Alloc	ation				-
Plans	Allocated to me	Allocated to sub accounts				+ ALLOCATION
Packages	20 Items	Allocate product to account		×		Q = III
Products	ALLOCATED PRO	Select account/s and product/s (up to 5 for each).			DESCRIPTION	
S. My Sub-Accounts	12312	•	•		12312	Deallocate
द्र ^e Providers	222	Accounts*	✓ Products*		222	Deallocate
-) Rates & Fees	222				222	Deallocate
🗄 Events	2301 Product 1			CANCEL CREATE	2301 Product 1	Deallocate
Reports	2301 Product 1	parent_account_439821	15 USD Deily		2301 Product 1	Deaflocate
Rules & Notifications 🗸 🗸 🗸	Product Test d	emo 1 parent_account_100038	5 GBP Daily		Product Test demo 1	Deallocate
Billing & Invoices	Product Test d		5 GBP Daily		Product Test demo 1	Deallocate
Settines		And a construction one	a starty			Constant of the second s

7.8 Change Product Expiration Date

To change the product expiration date, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Select the **Product Allocation** tab.
- 3. Select the **Allocated to Sub--account** tab. A list of allocated products is displayed.
- 4. Select a product from the list and click the **Edit** icon on the right-side of the table. The Edit Expiration dialog box is displayed.
- 5. Enter a new Expiration Date and click Update.

7.9 Configure a Product

To configure an existing product, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Select the **Product Configuration** tab.

- 3. Click a product in the table to display the **Product Details** page.
- 4. Edit the Account Product Name* field.
- 5. Edit the **Description** to provide information about this product.
- 6. Modify the **Account Product Cost** value.
- 7. Specify the Account Product Currency* from the list of options.
- 8. Select a "Renewal Strategy" on page 119.
- 9. Select an "Expiration Strategy" on page 118.
- 10. Click **Update** to update the details in the product table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

TIP: The Renewal and Expiration Strategy options are described in the Plan Management section.



A screen capture of the Configure Product page is shown here.

7.10 Create New Product

To create a new product fee to ensure ongoing, automatic payment for services, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Click + PRODUCT to display the Create New Product dialog box.
- 3. Enter a name in the **Product Name*** field.
- 4. Add a **Description** to provide information about this product.
- 5. Add the Product Cost value.
- 6. Specify the **Currency*** from the list of options.
- 7. Select a "Renewal Strategy" on page 119.
- 8. Select an "Expiration Strategy" on page 118.
- 9. Click **Create** to display the plan in the plans table.

NOTE: Any step marked with an asterisk (*) is mandatory and must be completed by selecting an appropriate option.

TIP: The Renewal and Expiration Strategy options are described in the Plan Management section.



A screen capture of the Create New Product dialog box is shown here.

7.11 De-Allocate Products

When you de-allocatea product from a sub-account, all recurring charges are canceled and the sub-account is no longer eligible to access and use product services.

To de-allocate a product fee for a sub-account(s), do these steps:

- 1. Select Catalog | Products from the sidebar menu.
- 2. Select the **Product Allocation** tab.
- 3. Select the **Allocated to Sub--account** tab. A list of allocated products is displayed.
- 4. Select a product from the list and click the **De-allocate** button on the right-side of the table.
- 5. Click **De-allocated** to cancel product fee and use of service.

8 Products

The Product feature enables management of 'recurring charges' for various products across accounts (in contrast to a single one time payment). A recurring product (also referred to as product services) involves ongoing, automatic payment for services such as Access Point Name (APN), Virtual Private Network (VPN) and premium Service Level Agreements (SLAs) etc. Parent accounts can define one or more product fees for any of their sub-accounts to ensure they are charged appropriately for the services they consume.

NOTE: The product fee module enables users to view the products assigned to your account by the parent account and products associated to your sub-accounts.

		A Product Configuration	B Product on Allocation	List of Products		D Add Product
드 신 Dashboard 3 SIMs	Products PRODUCT CONF	IGURATION	PRODUCT ALLOCAT	ION		
 SIMs Provisioning Batch Operations 	Product Configuration					+ PRODUCT
Catalog • ^	NAME	COST	RENEWAL PERIOD	EXPIRATION	DESCRIPTION	-
Packages	787	7878 GBP	Annually	2025-01-30 22:00.00	787	
My Sub-Accounts	P777 Produ98	77 EUR 98 GBP	Monthly Monthly	2025-05-22 11:00:00	P777 Produ98	
Providers	Producqwewqewqe	22 EUR	Monthly	no-expirat	Producqwewqewqe	
Rates & Fees Events	Product 1212	12 GBP	Monthly	no-expiration	Product 1212	
Reports	Product 2301 1 Product 99	5 GBP 99 GBP	One Time Daily	no-expiration	Product 2301 1 Product 99	
Rules & Notifications 🗸 🗸	Product Test demo 1	5 GBP	Daily	no-expiration	Product Test demo 1	
Settings	Product name	2323232 USD	Annually	2025-04-16 21:00:00	Product name	
	Product name	2323232 USD	Annually	2025-04-16 21:00:00	Product name	

A screen capture of the Products page is shown here.

8.1 Fee Attributes

A description of the recurring product fee attributes is provided in this table.

Attribute	Description
Name and Description	Clearly define the product with a name and a brief description to inform users of its purpose.
Recurring Type	Specify the frequency of the charge: Daily; Monthly ; Yearly
Cost and Currency	Set a price for the product per recurring cycle, including the applicable currency.
Expiration Time	Establish a time frame for the product's validity to ensure charges are applied appropriately.

8.2 Transactions

The system automatically generates a recurring transaction for each product charge. These transactions are included in monthly reports, invoices, and dashboards to provide visibility into account activity.

8.3 Functional Capabilities

A description of the product fee functional capabilities is provided in this table.

Feature	Description
Zero-Cost Products	Product fees may have a zero cost. This triggers a transaction and description without a monetary charge.
Cost Adjustments	Product costs can be modified at any given time for both increases and decreases.
Product Fee Reuse	A single product can be assigned to multiple sub-accounts to generate recurring charges across different account structures.

8.4 API Functionality

The floLIVE PublicAPI provides endpoints for managing products. Batch operations are available for attaching and detaching products to and from accounts.

8.5 View Allocated Products

The Product Allocation tab contains tow options:

- Allocated to Me: Displays a list of products allocated to the user by the Parent Account.
- Allocated to Sub-Accounts: Displays a list of products allocated by the logged in user to one or more sub-accounts.

To view the Allocated Products to Me, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Select the **Product Allocation** tab.
- 3. Select the Allocated to Me tab. A list of allocated products is displayed.

To view the Allocated Products to Sub-Accounts, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Select the **Product Allocation** tab.
- 3. Select the **Allocated to Sub-Accounts** tab. A list of allocated products is displayed.

A screen capture of the Allocated Products page is shown here.

		Allocated to Me	B Allocated to Sub-Accounts	C List of Allocated Pro	ducts	Product Allocation Tab		E De-Allocate Products	F Edit Allocate Product
프 Dashboard G SIMs G SIMs Provisioning	PRODUCTS		DNFIGURATION		PRODUCT ALLOCATIC				
Batch Operations Gatalog Plans Packages			d to sub accounts						
Products		ALLOCATED PRODUCTS	ACCOUNTS	COST	RENEWAL PERIOD	EXPIRATION DATE	DESCRIPTION		
ి. ఆ, My Sub-Accounts		12312	parent_account_100038	1212 GBP	Daily	-	12312	Deallocat	• /
द्र Providers		222	parent_account_715787	2 GBP	Monthly	08.07.2025	222	Deallocat	• /*
-) Rates & Fees		222	parent_account_230650	2 GBP	Monthly	08.07.2025	222	Deallocat	• /*
🛱 Events		2301 Product 1	23 Kobi Account 1	15 USD	Daily	-	2301 Product 1	Deallocat	• /
Reports		2301 Product 1	parent_account_439821	15 USD	Daily	-	2301 Product 1	Deallocat	•
දෝ Rules & Notifications 🗸		Product Test demo 1	parent_account_100038	5 GBP	Daily	-	Product Test demo 1	Deallocat	• /*

9 Rates and Fees

The Rates and Fees module enables operators and regular accounts to manage various pricing structures for connectivity services. This module consists of two tabs:

Tab Label	Description
Rates	View rates set by the parent account and create new rates for your sub-accounts.
Fees	View Access Fees and Surcharge Fees set by the parent account and create new fees for sub-accounts.

A screen capture of the Rates and Fees module is shown here.

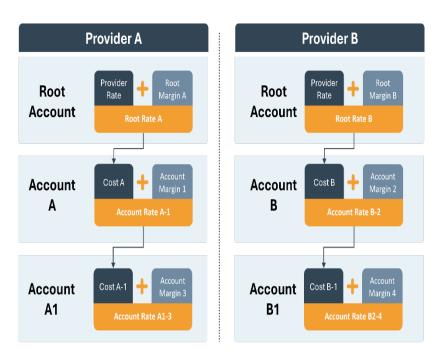
		Connectivity Rates Tab	B Fees Tab			
 Products My Orders Dashboard 	Rates	CONNECTIVITY RATES	PEES			
실 SIMS 의 SIMS 의 SIMS Provisioning 않 Batch Operations	Connectivity Rates		ithew Rates in *			LUPLOAD AS PAREN
〕 Plans へ Regular Plans Pool Plans Availability Zones	v S Australia	B Brigum (0) 🖷 Unbed States (0)				Clear All
R My Sub-Accounts	🗸 📕 Belgium					
-) Rates & Fees	O United States					
÷ Events	PROVIDER	OPERATOR	PLMN	DATA COST	SMIS COST	
Reports	EU 1	Choice Wasless LC	USAKD	Blocked	Blocked	1
Rules & Notifications 🗸	8U 1	T-Mobile USA, Inc	USAW6	0.029000 (USD)	0.1568 (USD)	
루 Order SIMs	EU 1	NE Colorado Cellular ()	USACI	0.007000 (USD)	0.062 (USD)	1
Billing & Invoices	EU 1	AT&T Mobility	USACO	0.007000 (USD)	0.1568 (USD)	1
) Support	EU 1	T-Mobile (ex SUNCOM	USASC	0.029000 (US0)	0.1548 (USD)	
3 Settings	EU 1	The Alaska Wireless 🛈	USASC	0.012912 (USD)	0.061 (USD)	

9.1 Structure of Rates

Connectivity rates are structured hierarchically. The rate decks from higher-level accounts in the hierarchy are inherited by their corresponding child accounts.

A conceptual diagram of the rates hierarchy is shown here.

floLIVE User Manual



9.1.1 Rate Options for Child Accounts

There are two rate options that can be applied to child accounts as described in this table.

Rate Setting	Description
Cost + Markup (%) = Price	Apply a fixed percentage markup to the cost price. Example: If the cost is \$1 and the markup is 10%, the final price will be calculated as follows: \$1 + 10% = \$1.10.
Fixed Price	Set a fixed price Example: A fixed rate might be set at \$1.30.

9.2 View Parent Rates

The Connectivity Rates module initially opens to the unselected Connectivity Rates page:

onnectivity Ra	tes			*
Select Account * •	Select country	•	Show Rates in:	
 Select Account and Count the country IMSI rates. 	tries to display			

Connectivity Rates

Connectivity rates are defined as price per MB of data, with a scale of 6 digits. Connectivity rates are saved and used by the platform as price per KB of data, with a scale of 10 digits. The platform uses a rounding formula to convert the MB price to a KB price.

EXAMPLE: The price of \$0.000011 per MB is converted to \$0.0000000107 per KB. Used formula: ROUND(0.000011/1024,10).

View Country Connectivity Buy Rates in Parent Account

The parent account is your Buy Rates main account that contains the base Data and SMS rates (costs) that you pay to your Parent account. These rates are set by your Parent account and cannot be changed. The rates you pay are viewed by country. A Rates table displays the a list of Providers-Operators and specifies the Data and SMS costs you that you pay.

To view the connectivity rates for different countries, do these steps:

- 1. Select **Rates** from the sidebar menu.
- 2. Click Select Account and click **My Rates**. The entries below My Rates in the **Select Account** field are your customer sub-accounts.
- 3. Click Select Country and select one or more countries from the list. The My Rates table displays the connectivity Buy Rates for the selected countries. Scroll the Rates table and click a **Country** to expand the "Country Rate Details" on page 177.
- 4. Click **Currency** and select one of these options:
 - Original
 - o USD
 - \circ EUR
 - GBP

NOTE: The currency selector enables customers to choose the currency in which they view the connectivity rates. This feature is useful for international users (e.g. UK, EU, USA customers) who need to view rates in different currencies such as euros or pounds.

5. Click **Show Rates** to select Price Per Unit. The default display is per megabyte however, rates can also be displayed per KB when you select this option.

IMPORTANT: The My Rates view (parent account) shows the view-only Data and SMS connectivity rates (Data and SMS prices) you are paying for each Provider-Operator in the selected country.

9.3 View Sub-Account Rates

To view connectivity rates for different countries, do these steps:

- 1. Select the **Rates and Fees** from the sidebar menu.
- 2. Select the **Connectivity Rates** tab.
- 3. Click **Select Account** and select the relevant account.
- 4. Click **Select Country** and select one or more countries to display the associated rates.
- 5. Select the relevant **Currency**.
- Scroll the table to view the connectivity rates per country and per Provider-Operator.

TIP: Expand the country label to display details for the selected country.

An example of the Connectivity Rates table is shown here.

^ Belgium					
PROVIDER	OPERATOR	PLMN	DATA COST	SMS COST	
TIS	Orange Belgium	BELMO	0.012986 (EUR)	0.1008494453 (EUR)	:
TIS	Proximus PLC	BELTB	0.002464 (EUR)	0.002464 (EUR)	:
				Rows per page: 10 • 1 - 2 of 2	

A description of the Country Rate Details is provided in this table.

Column Label	Description
Provider	IMSI provider alias (Provider 1, 2, etc.); all available IMSI providers in the selected country are listed. Each alias replaces a specific provider, as defined by each operator.
Operator	Local operator that the IMSI is roaming on
PLMN	The Public Land Mobile Network (PLMN) of the local operator
Data Cost (MB/KB)	The price you pay for 1MB/1KB of Data consumption from this Provider- Operator (read-only)

Column Label	Description
Data Price	The price you charge for 1MB/1KB of data concumption.
SMS Cost	The price you pay for 1 SMS message sent by this Provider-Operator (read- only)
SMS Price	The price you charge for 1 SMS message sent by this Provider-Operator
Change Status	Indicates the change in markup.

9.4 Country Rate Details

A description of the Country Rate Details is provided in this table.

Column Label	Description
Provider	IMSI provider alias (Provider 1, 2, etc.); all available IMSI providers in the selected country are listed. Each alias replaces a specific provider, as defined by each operator.
Operator	Local operator that the IMSI is roaming on
PLMN	The Public Land Mobile Network (PLMN) of the local operator
Data Cost (MB/KB)	The price you pay for 1MB/1KB of Data consumption from this Provider-Operator (read-only)
SMS Cost	The price you pay for 1 SMS message sent byhis Provider-Operator (read-only)

Here is an example screen capture of the Country Rates table.

PROVIDER	OPERATOR	PLMN	DATA-DOST	SAIS COOF	
716	Orange Belgium	80.M0	0.012984 (0.00)	0.1088494453 (0.00)	I
TIS	Provinsia PLC	89.79	0.803464 (BUR)	0.003464 (\$209)	1

9.5 Upload Connectivity Rates

Upload Rates allows an operator to import an Excel file containing connectivity rates to be charged a customer for local connectivity or for a customer who has roamed to another country or PLMN. The Excel file contains the rates of all services offerings, such as SMS volume and Data streaming.

NOTE: The rates imported apply to the provider root account. However, the connectivity rates of the Excel file are also applied to the operator's sub accounts.

The following is an example of an Excel file of connectivity rates that may be uploaded and applied:

Prankiller	Country	Operator	PUMN	ameOut	unstOutPriceType	Data/MR	dataPriceType	Durwey	gow2g	gan	untilg	helg	charge intervalData	chargeInterval/Void
Telescore Haly lips	Albania	Telefoor Alberta Sh.A	ALEANT	0.0317108	FIRED_PRICE	8.001764	PRED_PRICE	ILIN .	101	10.5	188	YES	3 Mb	1 smi
Televan Italy Ipa	Armenia	ARMENTES.	ARMAGE	8.00414	FINED_PRICE	0.031088	FIRED_PERCE	EUR .	105	485	785	YES	3.86	Lan
Telecom Italy fipe	Armenia	VIVACEUL MTS	ARMOS	8.02464	FRED, PRICE	0.80924	PINED_240.02	EUR .	955	985	115	8(0)	346	E sec.
Telecore Italy Spe	Acerbaijan	AZERCELL	ARAC	8.00615	FRED_PRICE	0.084333	23/89_0381	DJR .	405	405	785	YES	310	1 HK
Felecom Italy Spe	Aperbaljan	AV/RANDOLL	ABLE	0.000346	FOED_PRICE	0.003994	20189_03819	EUR .	165	765	785	755	110	5.18C
Telescore Mails tole	(Boenia	HT MOBILE COMMUN.	BHER.	0.0016.010	HOLD_PRICE	0.001679	FIRED_PRICE	EUR .	703	755	783	783	3 MD	1 100
Telesare Italy Ipa	Rearie	IACORUPA MEMORIA	RI-MS	8.08316361	HOLD_PRICE	0.00246	PRED_PECE	BJR -	40.5	488	788	AllA .	3 Min	1.589
Televers Haly los	Scenia	BH TELECOM	SHPT .	8.00899	FORD_PRICE	0.29856	PIRED_PRICE	81.85	985	485	YES	404	316	Low
Telecore italy foe	Belanus	MOBILE TELESPSTEM	51802	8.02464	FRED, PRICE	0.011088	PIRED_PRICE	0,0	905	985	785	YES	310	Low
Telecore Italy Spe	Gelanut	MODILE DIGITAL COMM.	DLRMO .	8.02454	FOED_WRICE	0.054884	20.09 0000	DUR	905	765	15	785	110	£ sec
Felecore Italy fice	Georgia	6600511	66090	8.05312	FOSD_PRICE	6,020843	FIRED_PRICE	RUB	965	715	785	785	3 40	1100
Telescene Kaly too	Cheorgia	VIMPELCOM	OECM1	0.05212	FIRED_PRICE	0.011088	FIRED_FREEX	ILR .	10.5	705	788	785	3 Mb	5.4ec
Telesare Haly lips	Croatia	CROATINA TELEC HT	HEVEN	B-OD489475	HOLD_PRICE	0.004893	PRED_PRED	ELES .	10.8	705	YES	YES	310	L sati
Telecom Huly Ign	Croatile .	18.62	HINT2	8.03645628	FIRED PRICE	6-0100075	PIRED PRICE	6.35	107.5	105	785	YES	310	Low

Attribute	Description								
Provider	IMSI provider alias (Provider 1, 2, etc.); in the selected Country. Each alias replaces a specific provider, as defined by each operator.								
Country	The country where the sub-account is operating								
Operator	Local operator that the IMSI is roaming on								
PLMN	 Operator code (combining country and operator): When provided, the connectivity rate is applied to that specific operator When not provided, the connectivity rate is applied to the entire Country (including all operators within that Country) Note: Requires authorization. 								
smsOut	Rate charged for a single SMS messageRange: Decimal numerical valueoMandatory if Data/MB is not provided								
smsOutPriceType	Range: • Percentage_Markup: Percentage markup value • Monetary_Markup: Monetary markup value • Fixed_Price: Monetary fixed amount • Block(ed): Do not allow SMS service								
Data/MB	Rate charged for 1 MB of data Range: Decimal numerical value Mandatory if smsOut is not provided 								
dataPriceType	Range:								

Attribute	Description							
	• Percentage_Markup: Percentage markup value							
	 Monetary_Markup: Monetary markup value 							
	 Fixed_Price: Monetary fixed amount 							
	• Block(ed): Do not allow Data service							
	The payment currency							
Currency	 Ignored if sms/dataPriceType is set at Percentage_Markup or Block 							
gsm2g	Not active							
gprs	Not active							
umts3g	Not active							
lte4g	Not active							
	• Decimal numerical value:							
chargeIntervalData	• Units: KB units							
	 Default: 1 KB 							
	Decimal numerical value:							
chargeIntervalVoic e	 Units: seconds 							
	 Default: 1 second 							

- The connectivity rates are defined by:
- IMSI provider
- Country
- Operator within each country
- o PLMN

NOTE: Each country can have multiple operators and multiple PLMNs.

The connectivity rates are charged per service type and the currency of the transaction is also defined in the Excel file.

The Upload Rates functionality supports these features:

- Full upload that replaces all current rates
- Editing of specific PLMN rates without replacing other effective rates
- Deleting specific PLMN rates
- \circ Block individual PLMN so that no SIM in the PLMN can be connected
- All uploads are effective immediately with no latency

To upload the Connectivity Rates Excel file:

- 1. Click Select Account |Sub-Account
- 2. Click the **Upload** button. The Upload IMSI Rates Sub-Account dialog is displayed.
- 3. Click **Upload Mode** and select the desired Upload action from the list:

 New/Update: New rates that have been added to the Excel file, but not yet loaded into the system, are added. Existing rates whose values have been changed in the Excel file, but not yet updated in the system, are updated.

• **Delete**: PLMN rates in the Excel file delete the same PLMN rates from the system; PLMN rates not in the Excel file are not deleted from the system.

- **Full Upload**: Replace all existing system account rates with those in the Excel file. New PLMN rates that are in the Excel file, but not in the system, are added. PLMN rates that exist in both the Excel file and in the system are updated with the values in the Excel file. PLMNs with Fixed rates that are in the system, but not in the Excel file, are reset to the parent default rate + set markup.
- 4. Click **Select IMSI Provider** and select the relevant IMSI provider.
- 5. Browse or drag the Excel file into the Drag Your Files field and click **Upload**. The Excel file is uploaded, and the action is executed in the background. Viewing the changes in the UI can take up to 30 seconds.

NOTE: The Excel file is automatically validated when you upload it. An appropriate error message indicates any errors, for example, when you attempt to upload an Excel file with a PLMN that is not available to you.

9.6 Sub-Account Sell Rates

You can manage sub-account rates from Rate sheets for each sub-account. The rates are viewed per country and per Provide-Operator, as in the parent account Rate Sheet. The sub-

account Connectivity Rates page (and Country Rate sheets) enable you to set your markups from your base Data and SMS costs (as listed in the My Rates Rate sheet).

There are three markup level types:

- **Global Markup:** global markup for the entire sub-account, including all countries and all Providers-Operators in each country.
- Country Markup: a markup applied to all Providers-Operators of a single country; this markup overrides the sub-account Global markup settings for the selected country.
- Single Provider-Operator: a markup applied to a single Provider-Operator (in a single row of the country Rate sheet); this markup overrides the sub-account Global and Country markup settings for the selected Provider-Operator.

9.7 Sub-Account Global Markups

Sub-account Global markup applies to all a sub-account's countries and all Provider-Operators in those countries. This Global markup applies until you override it with (single) Country markups or (single) Provider-Operator markups.

To manage sub-account Global markups:

- 1. Click **Select Account | Sub-Account** The right side of the Connectivity Rates page header displays the Global markups for all countries and Providers-Operators in this sub-account. If no Global markups are in force, the page displays a Markup widget that enables you to define markups directly.
- 2. To define a Markup, click the down arrow next to the Markup display or the Markup widget. The **Set/Change Global Markups** action is displayed.
- 3. Click **Set/Change Global Markups**. The Set Global Markups dialog appears with current settings or empty if there are no Global Markups configured:
- 4. Click the Data Markup and SMS Markup fields to change their values as desired.

NOTE: Data Markup and SMS Markup are in percentage units above the base costs charged by the parent account.

5. Click **SAVE**. The Global markups for this sub-account are changed and the new markups are displayed on the right side of the Connectivity Rates header.

TIP: When you open the Rates sheets of each country, you will see that the Data Prices and the SMS Prices (you are charging) have now been adjusted to the new markup over the Data Cost and SMS Cost (that the parent account is charging you).

9.8 Sub-Account Country Markups

Sub-account Country markups are applied to all Provider-Operators within a country served by the sub-account. They are limited to a single country.

Sub-account Country markup settings override sub-account Global markups. Changing the markups of a single Provider-Operator within a country overrides the sub-account Country markups for that Provider-Operator only.

9.8.1 Sub-account Country Markups Options

The Set or change Country markup features has three options:

- % Markup: Percentage markup on top of parent account rates (your costs) applied to all Providers-Operators within this country
- Fixed price: Set a fixed price on Data (per megabyte) and SMS (per message) usage applied to all Providers-Operators within this country
- BLOCK: All Providers-Operators in this country are blocked and SIMs cannot consume any connectivity services
- Delete all Country markups: Removes all Country markups and single Provider-Operator markups within the country and reverts them to the sub-account Global markups (that apply in all countries)

9.8.2 Access Country Markups Settings

1. Click Select Account > <Sub-Account>:

Select Account *	•
My Rates	
Modern Tools	
Secure Industries	Select Account *
Smart Ltd.	Modern Tools

2. Click Select Country and select the countries whose connectivity rates you want to view:

Q Search	(
🗌 📴 Afghanistan	
🗌 💌 Albania	
🗌 📭 Algeria	
🗌 💽 American Samoa	
🗌 📕 Andorra	

The Sub-account view shows the selected countries in the page header and the hidden Rate tables of the countries selected:

Connectivity Rates	L and
and an and a constant of the second states and the second states a	Mediag Days 10 C MAG 30 C +
Vi Miner () Hinner () Miner ()	[Date A]
- Mit fried	Make to 171 WETEL +
- H cruda	Markay: New York Stell 18 5. +
- 📓 Grand States	Menage Base 10 S (MM 10 S) =

Sub-Account View with Hidden Rates Tables of Selected Countries

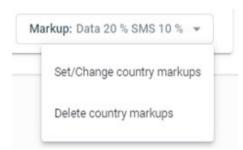
The right side of each Country header displays the Country markups currently in force in that country. By default, the Country markups inherit the sub-account Global markups.



Country Header with its Markups

3. Click the Down arrow next to the Markup display.

The Set/Change country markups action appears.



4. Click Set/Change country markups.

The Set Country Markups dialog appears:

Set Count	.ry iv	arkups			×
Country Ma () % Markup		s for Bra	zil		
Data markup *		SMS markup			
10	%	10	%		
Fixed pric	е				
O BLOCKED					
			CANCEL	SAV	-

Set Country Markups Dialog

The Set Country Markups dialog box contains the three Set/Change options.

To set or change Country % Markup:

- 1. Select % Markup (if necessary).
- 2. Click the Data Markup and SMS Markup fields to change their values as desired. You can use the spin arrows.

The new markups you set override those of the sub-account Global markups and are applied to all Providers-Operators in this country (only).

3. Click SAVE.

The Country markups for this country are changed and the new markups appear in the Markup indicator on the right side of the Country header.

When you open the Rates table of this country, you will see that the Data Prices and the SMS Prices (you are charging) of all Providers-Operators in the country have now been adjusted to reflect the new markups over the Data Cost and SMS Cost (that the parent account is charging you).

To set or change Country markup to a Fixed Price:

1. Select Fixed price.

The Fixed Price fields for Data and SMS usage appear:

Set Country Markups	×
Country Markups for Brazil % Markup	
Fixed price	
Select currenc • MB price * S	MS price *
O BLOCKED	
CANCEL	SAVE

Fixed Price Fields in the Set Country Markups Dialog

2. Select the currency and the (Data) MB price and the (per message) SMS price.

These fixed prices override the Global Markups of the parent-account and are applied to all Providers-Operators in this country (only).

3. Click SAVE.

The sub-account Country markups for this country are changed to fixed prices, which appear in the Markup indicator on the right side of the Country header:

Fixed :Data €0.04999168 SMS €0.02

When you open the Rates table of this country, you will see that the Data Prices and the SMS Prices (you are charging) have now been changed to the fixed price for all Providers-Operators in the country.

To block all Providers-Operators in this country:

1. Select BLOCKED.

Set Country Markups	×
Country Markups for Brazil	
O Fixed price	
BLOCKED	
CANCEL	SAVE

BLOCKED option in the Set Country Markups Dialog

Warning: There is no request for confirmation when you initiate BLOCK. The process of blocking all Providers-Operators in this country is immediately initiated when you click SAVE in the next step.

2. Click SAVE.

All Providers-Operators in this country are blocked and lose their connectivity.

Note: When you click SAVE, the process of blocking all Providers-Operators in the selected country can take upwards of 15 seconds.

The BLOCK indicator appears on the right side of the Country Rates table header. When you open the Rates table of this country, you will see that the Data and SMS Cost and Price columns indicate that all Providers-Operators in this country have been blocked and have lost their connectivity.

Restoring Connectivity to a Blocked Country

You can restore connectivity to a blocked country with two methods:

- Set/Change Country Markups and set either % Markup or Fixed price for the country, as described above
- Delete country markups: Restore Global Country markups to all Provider-Operators in this country, as will be described below

Delete (Sub-Account) Country-Markups

NOTE: Deleting markups restores the Global markups for this country by removing all Country markup settings and all override settings of single Providers-Operators within the country.

To delete Country markups, do these steps:

1. Click the icon next to the Markup display in the Country header and select Delete Country Markups:

•	Brazil			(Markup Data 10 % SMS 10 %)	
	Markup: Data 20 % SMS 10 % 👻				
	Set/Change country markups	F			
	Delete country markups				

The Delete the Markup confirmation message appears:

A Delete The I	Markup	×
The markup for Alger	is will be deleted. Are you :	eure?

Delete the Markup Confirmation Message

Warning: There is no Undo when you delete the Country markups.

2. Click SAVE.

All Providers-Operators in this country are blocked and lose their connectivity.

NOTE: When you click SAVE, the process of deleting all Country markups and restoring the sub-account Global markups can take upwards of 15 seconds.

The sub-account Country markups indicator now shows the sub-account Global markup settings.

When you open the Rates table of this country, you will see that the Data and SMS Price columns indicate that all Providers-Operators in this country now are set to the (sub-account) Global markup settings.

9.9 Sub-Account Single Provider-Operator Markups

Sub-account single Provider-Operator markups are applied to only one Provider-Operator within one country. Sub-account Provider-Operator markup settings override sub-account Country markups for this Provider-Operator only.

Managing single Provider-Operator markups has these options:

• Set or change Provider-Operator markups has three options:

 % Markup: Percentage markup on top of parent account rates (your costs) applied to this Providers-Operator only

- Fixed price: Set a fixed price on Data (per megabyte) and SMS (per message) usage applied to this Provider-Operator only
- $\circ\,$ Block: All SIMs of this Provider-Operator are blocked and cannot connect
- 1. Access Single Provider-Operator Markups Settings.
- Select My-Sub Account from the sidebar menuClick Select Account > <Sub-Account>:

Select Account *	Ŧ	
My Rates		
Modern Tools		
Secure Industries		
Smart Ltd.	Select Account * Modern Tools	•
the country IMPL rotee		

2. Click Select Country and select the countries whose connectivity rates you want to view:



The Sub-account view shows the selected countries in the page header and the hidden Rate tables of the countries selected:

Connectivity Rates	L OPLOSE
Development, 20200 * Back Count, Index. * Deve Dave ry 😵 MI 🔘 HI	Mining: Dars 115, 5555 10 % of
V) Mind O House 0 Security 0	(Diatrati)
- B bed	Markap Data 10 V URL 10 V -
- H Crosta	Manage Beau 10 % SHIP 10 %
- 📕 Grand States	Manage base 10 V (MH 10 V +

Sub-Account View with Hidden Rates Tables of Selected Countries

3. Click on a country to expand its Rates table.

The Rates table of the selected country appears:

Canada							(Netage Data Dirichlands) +
PROVER	organiza.	1.00	per conserve	Descent see	144 1217	100 200	Owned Linute
101 C	and straining and	11.000	110.0004444.000	107-0011-008	0.0754 (0.01)	1011104-004	
-	Reprict Values	Looke	A IN EPARATE MARY	A DE TREMAN (DUR).	14774(04)	a praidra picelo	
ant.	(adh)	1487	101000	1100100000	10000-000	100004-000	22
100 i	Wall Devertisities in.	29871	10.2049-01.005	1.01100031358	1.1104-009	100000000	100
-	Tradesitive (14)	114/7	0.000004-04.0000	1.00094034.00.00	1.122.3.000	0.022191.0049	-
(m) 1	Transmission (Constraint)	sider.	100000000000000000000000000000000000000	a large state in the	1.000-0.0000	0.000110.0000	
101 L	in Palasin	1100	4.0000000000000000000000000000000000000	a commercial public	1.14(100)	1.000(100)	9
ant.	F84	DAME :	1.0000-02.000	1.000001011.040	1.14 (1000)	1.041.0402	
	Report Vision	DAMA	1000101-001	0.00007373.000	114-1070	104 (40)	
1001	lee're	1448*	1.0709-02.0701	Enverse forst state-	0.00.0000	4,101,0025	

Sub-Account View with Expanded Rates Table of One Country

Attribute	Description			
Provider	IMSI provider alias (Provider 1, 2, etc.); all available IMSI providers in the selected country are listed. Each alias replaces a specific provider, as defined by each operator.			
Operator	Local operator that the IMSI is roaming on			
PLMN	The Public Land Mobile Network (PLMN) of the local operator.			
Data Cost (MB/KB)	The rate that your parent account is charging you for 1MB/1KB of Data consumption for this Provider-Operator (read-only)			
Data Price (MB/KB)	The price that this Provider-Operator (your customer) is paying you for 1MB/1KB of Data consumption Equals Data Cost + (Data) Markup or Fixed Price			
SMS Cost	The rate that your parent account is charging you for 1 SMS message sent for this Provider-Operator (read-only)			
SMS Price	The price that this Provider-Operator (your customer) is paying you for 1 SMS message Equals SMS Cost + (SMS) Markup or Fixed Price.			
Change Status	 Displays the change you made for this Provider-Operator: Directly in the UI, as described below When you Upload an Excel file (<u>Uploading Connectivity Rates with an Excel File</u>) with this change using the Add/Update upload option 			

4. Click the icon on the right side of the Provider-Operator for which you want to set markups.

A list of actions appears.

:	
Set/Change Provider Markups	

5. Click Set/Change Provider Markups.

The Set Operator Markups dialog appears with Data and SMS markup settings disabled:

Set Operator M	S DA SDANGA D		
Operator Markup	s for Videotron Ltd		
DATA:			
O Fixed price	Not available	Select currency	-
) % Markup	DATA Markup Ü	\$	
O BLOCK			
SMS:			
O Fixed price	Not available	Select currency	-
3: Markup	BildS bilankagr D	\$	
O BLOCK			

The Set Operator Markups dialog box separates Data and SMS markup configurations, each with the three options. The procedure is the same for both.

To set or change Provider-Operator markup to a Fixed Price:

1. Activate Data and/or SMS markup configuration by toggling them Active.

Range: Inactive , Active

Default: Inactive

The fields become active.

2. Select Fixed price.

The Fixed price fields become activated.

Set Operator M	larkups		×
Operator Markup	s for Videotron Ltd		
DATA:			-
Fixed price	MB Price *	Select surrenzy * USD	-
🔿 % Markup	Not available		
O BLOCK			
SMS:			-
Fixed price	Price *	Select currency * USD	÷
⊖ % Markup	Not available		
O BLOCK			
		CANCEL	SAVE

Set Operator Markups Dialog with Active Fixed Price Fields (Data and SMS)

- 3. Do the following:
 - For Data, select the (Data) MB price and the currency
 - For SMS, select the SMS price (per message) and the currency.

These fixed prices override the sub-account Country markups and are applied only to this Provider-Operator.

4. Click SAVE.

The Provider-Operator markups are changed in the background to fixed prices.

Note: You must close and then reopen the Country Rates table to view the changes.

5. Close and then reopen the Rates table.

When you close and reopen the Rates table of this country, you will see that the Data Prices and the SMS Prices (you are charging) have now been changed to the fixed price for this Provider-Operator.

To set or change Provider-Operator % Markup:

1. Activate Data and/or SMS markup configuration by toggling them Active.

Range: Inactive , Active

Default: Inactive

The fields become active.

2. Select % Markup.

The % Markup field becomes activated:

Set Operator M	larkups			×
Operator Markup	s for Videotron Ltd			
DATA:				- ••
O Fixed price	Not available		Select currency	-
🦲 % Markup	DATA Markup *	%		
O BLOCK				
SMS:				
O Fixed price	Not available		Select currency	-
🖲 🤋 Markup	SMS Markup *	%		
O BLOCK				
			CANCEL	SAVE

Set Operator Markups Dialog with Active % Markup Fields (Data and SMS)

- 3. Do the following:
 - $\,\circ\,$ For Data, select the DATA Markup field to change its value as desired
 - $\,\circ\,$ For SMS, select the SMS Markup field to change its value as desired

You can use the spin arrows.

The new markups you set override those of the sub-account Country markups and are applied only to this Provider-Operator.

4. Click SAVE.

The Provider-Operator markups are changed in the background.

Note: You must close and then reopen the Country Rates table to view the changes.

5. Close and then reopen the Rates table.

When you close and reopen the Rates table of this country, you will see that the Data Prices and the SMS Prices (you are charging) have now been changed for this Provider-Operator.

To block this Provider-Operator:

1. Activate Data and/or SMS markup configuration by toggling them Active.

Range: Inactive , Active

Default: Inactive

The fields become active.

2. Select BLOCK.

Set Operator M	arkups		×
Operator Markup	s for Videotron Ltd		
DATA:			
Fixed price	Not available	Select currency	*
🔿 % Markup	Not available		
BLOCK			
SMS:			
O Fixed price	Not available	Select currency	-
🔿 % Markup	Not available		
BLOCK			
		CANCEL SA	ME

BLOCK option in the Set Operator Markups Dialog

Warning: There is no request for confirmation when you initiate BLOCK. The process of blocking this Provider-Operator is immediately initiated when you click SAVE in the next step.

3. Click SAVE.

This Provider-Operator is blocked and loses its connectivity.

Note: When you click SAVE, the process of blocking the Provider-Operator can take upwards of 15 seconds.

Note: You must close and then reopen the Country Rates table to view the change.

4. Close and then reopen the Rates table.

When you close and reopen the Rates table of this country, you will see that the Data and SMS Cost and Price columns of this Provider-Operator indicate that the Provider-Operator has been blocked and has lost its connectivity.

Restoring Connectivity to a Blocked Provider-Operator

To restore connectivity to a blocked Provider-Operator:

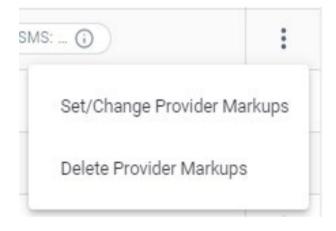
 Do Set/Change Provider Markups and set Data/SMS % Markup or Fixed price for this Provider-Operator, as described above

Delete Markups of a Single Provider-Operator

Deleting markups of a Single Provider-Operator restores the Country markups for this provider.

To delete Single Provider markups:

1. Click the icon next to the Markup display in of a Single Provider in the table and select Delete Provider Markups:



The Delete the Markup confirmation message appears:



Delete the Markup Confirmation Message

2. Click SAVE.

This Providers-Operator is blocked and loses its connectivity.

9.9.1 Export Rate Data Features

The Export Rate data feature enables customers to export Buy and Sell Rates per sub-account for analysis or record-keeping.

A description of the Export Rate Data features is provided in this table.

Aspect	Details
	• Buy Rates (created by parent account)
Available Export Types	• Sell Rates (per sub-account for child accounts)
	• Finalized rates after markups (global, country, fixed)
Content of Exported File	• Blocked rates marked with indicator
	• Rates blocked by parent are excluded
Data Columns in Export	Provider, Country, Local Operator, PLMN, Currency, Data Cost, Data Price, SMS Cost, SMS Price, Margin (%), Margin Type
	 Format: Excel/CSV
File Format and Naming	• Name includes account name and creation date (e.g.,
	floLIVE_20220501.csv)
Historical Data Export	Users can export historical files based on effective dates
Special Indicators	Blocked rates are marked; rates blocked by parent are not included in export

A screen capture of the Export Rates interface is shown here.

		List Export	of Export Groups Rates Tab	Account Data	D Date Range	E F Export Data Export Group
과네 Dashboard G SIMs	×	rates & frees Rates & Fees Rates		FEES		
 G SIM Provisioning 용 Batch Operations ♥ Plans ♥ My Sub-Accounts ✗ Providers 	~	Rates Connectivity Rates Export Rates	Export Rates		Date Range Last 30 days	
(°) Rates & Fees		Q Search Export Group Ex-439-1 Submit date: 01.86.2024, 00.00 Partially Success	Ex-4339-1			
 Reports Notifications Settings 	~	SB544-1 Submit date: 28.07.2024, 14:05 Pending 0-T34335	In Progress 2		ending 10	
		01-04-03 Submit date: 24.07.2024, 12-20 Pending Rate5433 Submit date: 19.07.2024, 11.05 In Progress		e (My Rates) Failur chnologies Succe bile Succe	55	Export II Export II

A description of the Export data fields is provided in this table.

Concept	Description
List of Export Groups	Displays a list of saved export configurations that specify how and what data to export.
Export Rates Tab	The dedicated section in the CMP Portal where users configure and initiate the export of buy or sell rates.
Account Data	A list of the accounts included in the Export Rate Group.
Export Status	Indicates whether an export job is pending, in progress, successfully completed, or failed.
Date Range	The specific period of time to filter historical rate export files
Export Data Button	The user interface element that, when clicked, triggers a download file operation
Create New Export Group	An option that allows users to submit a request to start export rate generation for one or more accounts . When the file is ready, the status is changed to Success and the export rate file(s) can be downloaded.

9.9.2 Create Export Group

To create an Export Group of Rate Data, do the steps:

- 1. Select **Rates & Fees** from the sidebar menu.
- 2. Select the Export Rates tab.
- 3. Select a **Date Range** from the list of options.
- 4. Click the **+ Export Group** button.
- 5. Enter a name for the group in the **Export Group Name** field.
- 6. Select one or more customers from the Accounts field.
- 7. Select the appropriate **Currency** option.
- 8. Click **Create** to display the new group in the Export Rates tab.

9.9.3 Export Account Data in Export Group

To export the rate data for specific accounts included in an Export Group, do the steps:

- 1. Select **Rates & Fees** from the sidebar menu.
- 2. Select the **Export Rates** tab.
- 3. Select an **Export Group** in the left panel.
- 4. Select a **Date Range** from the list of options.
- 5. Select one or more accounts from the list in the right panel.
- 6. Click the **Export** button in the right panel to export the date for selected accounts.

TIP: You can select the **Export** button in the right top area of the table to export all account rates in a single ZIP file.

9.9.4 Delete Export Rate Group

To delete an Export Group, do these steps:

- 1. Select **Rates & Fees** from the sidebar menu.
- 2. Select the Export Rates tab.
- 3. Select an **Export Group** in the left panel.
- 4. Click the **Delete** button in the right panel to remove the Export Group.

9.9.5 Delete Account from Export Group

To delete one or more accounts from an Export Group, do these steps:

- 1. Select **Rates & Fees** from the sidebar menu.
- 2. Select the **Export Rates** tab.
- 3. Select an **Export Group** in the left panel.
- 4. Select a **Date Range** from the list of options.
- 5. Select one or more accounts from the list in the right panel.
- 6. Click the **Delete** button in the right panel to remove the selected accounts from the Export Group.

9.10 View Platform Fees

You can view the fees assigned for each active IMSI on the SIM card. This enables you to align your billing with the various charges of different IMSI providers.

Type of Fee	Description
Access Fee	A monthly payment for usage of an active IMSI. The Access Fee price may vary depending on the IMSI Service Provider.
Surcharge Fee	An additional monthly fee made by a network provider on top of the Access Fee. Surcharge fees may differ per country and per network provider.

There are two types of platform fees as described in this table.

NOTE: You can transfer the Access Fee across your entire account structure by adding a markup rate (%) or fixed charge to the Access Fee set by your parent account.

≕ Products My Orders Dashboard	Rate	es	CONNECT/VITY RATES			FEES				
SIMs SIMs Provisioning Batch Operations	Fee	S	- Providers*						Account Globe	i Markup: 0.25 USD
Plans v	M	Fees	 EU 1, India 1, EU 4, LATA 	MM 2, Z1 ×						
Providers	ΨS	Providers EU1 ()	India 1 () (BJ 4 () (LATAM 2 ()	21 🔘						0
Rates & Fees		PROVIDER	FEE TYPE	FEE COST	FEE PRICE	COUNTRY	OPERATOR	PLMN	MARKUP	
Events Reports		EU 1	Access Fee	0.09 USD			-	-		
Rules & Notifications v		EU 4	Surcharge Fee	0.05 USD		USA	Verizon	USAVZ	Fixed: 0 USD	
Order SIMs		EU 4	Surcharge Fee	0.1 USD		USA	T-Mobile USA	USAW6	Fixed: 0 USD	
illing & Invoices		India 1	Access Fee				-	-		
upport		LATAM 2	Surcharge Fee	0.1 USD		USA	T-Mobile USA	USAW6	Fixed: 0 USD	
ettings		LATAM 2	Access Fee	0.07 USD			-	-		
		21	Access Fee				-	-		
		•	•	•	•	•			Rows per page: 15 👻	1-7 of 7

A screen capture of the Fees table is shown here.

To view sub-account fees, do these steps:

- 1. Select Rates & Fees from the sidebar menu.
- 2. Click the **Fees** tab to display the Fees table.
- 3. Select an Account* from the list of accounts.
- 4. Select one or more **Providers*** from the list.
- 5. Use the Filter to select the **Fee Type**.
 - \circ Access Fee
 - \circ Surcharge Fee
- 6. Select one or more items from the **Country** list.
- 7. Click **Apply** to update the Fees table.

9.11 Set Platform Fees

You can set the Access Fee and Surcharge Fees for your sub-accounts by adding a markup percentage or fixed price per active IMSI. This feature enables you to align your billing strategy with the charges set by different IMSI providers and network operators.

To set the platform fees for a sub-account, do these steps.

- 1. Select **Rates & Fees** from the sidebar menu.
- 2. Click the **Fees** tab to display the Fees table.
- 3. Select an Account* from the list of accounts.
- 4. Select one or more **Providers*** from the list.
- 5. Select a Provider listed in the Fees table.

NOTE: Make sure you select the appropriate Access Fee or Surcharge Fee when select the provider row.

- 6. Click the provider row **Actions** control and select **Edit Fee Markup**.
- 7. Specify the Fee Markup details:
 - a. Fixed Price: Specify the price and currency.
 - b. % Markup: Specify the markup percentage.
- 8. Click **Update** to update the Fees table. The new fee is now updated for the selected account.

An example screen capture of the Edit Fee Markup is shown here.

Edit fee markup		×
Fixed price Price* 0.75	- Select currency*	•
─ % Markup Markup		
	CANCEL	UPDATE

9.12 Exclude Platform Fees

In some cases you may want to exclude the platform fees from your billing transactions. This is done by selecting the "Including Platform Fee" option when you create regular usage and money plans.

To exclude the platform fee, do these steps:

- 1. Navigate to the Plan Management module.
- 2. Click +Plan to display the Create New Plan dialog box.
- 3. Select a Regular Usage or Money plan in the **Plan Type** field.
- 4. Check the "Including Platform Fee" option.
- 5. Define all the Create New Plan settings and click Create.

IMPORTANT: When you check the Including Platform Fee option, you cannot edit or update this option after the plan has been assigned to one or more SIMs.

B A Plan Type Including Usage / Money Platform Fee **Regular Plans** Create Regular Pla Sell Plans Money Plan Name Ralance value D P ated 🗾 Including pl Activation Strategy Activation Type Renewal Strategy Renewal Period Expiration Strategy No Expiration Availability Zones Regula Everywhere
 White list zones Providers All account providers
 Select providers CANCEL CREATE

A screen capture of the "Including Platform Fee" option is shown here.

10 Events Module

The Events module displays an aggregated view of all Core network signalling events for all SIMs. The Events module includes these features:

- Events Timeline: The timeline provides a consolidated and chronological view of all core network signalling events and enables users to understand the sequence and frequency of event to identify patterns, trends, and irregularities in network activity.
- **Events Table:** Provides a detailed record of all relevant activities, network events and transactions, for monitoring, analysis, and troubleshooting purposes.

Eve	nts	Q		IMSI	*	Last 24 hours	* 7	¢
0	Enable local time zone	Current enabled time 2	one UTC				() EX	PORT
~	I Graph View							
623 E	Events Use your key	board arrows to scroll	left & right.					ш
	ACCOUNT	DATE 4	ICCID	VLR	ED	IMSI	MSISDN	ACTIO
~	IoT Technologies	27.02.24, 06:29:21	8935711001000031358	4	-	278773000019702	3564000219702	GOSM
×	IoT Technologies	27.02.24, 06:29:18	8935711001000031358	-		278773000019702	3564000219702	0058
×	IoT Technologies	27.02.24, 06:29:03	8935711001000031358	-	-	278773000019702	3564000219702	GGSM
×	IoT Technologies	27.02.24, 06:27:59	8935711001000030327	23	-	278773000153550	3564000353550	GGSM
~	IoT Technologies	27.02.24, 06:27:44	8935711001000031358	4	-	278773000019702	3564000219702	6054
~	IoT Technologies	27.02.24, 06:26:59	8935711001000030327	-		278773000153550	3564000353550	0058

An example of the Events Table is shown here.

TIP: The Events Table includes a useful tool-tip for each of the column headings.

An example of the Events Timeline is shown here

Events Module

Events	τ û	MG = Lat Dition = Q
👝 🗃 Shele land the prov 1. Const material two years (27)		D-service
 all graph view 		and the second
the second second second		1.1.
" and the the the the the the day in the the the the		

10.1 Event Parameters

The Event table provides a comprehensive overview of all core network signaling events for SIMs managed within the system. This table serves as a valuable reference for analyzing and troubleshooting network events, identifying patterns, and understanding the status and performance of SIMs within the connectivity management system.

A description of the event table parameters is provided in this table.

Attribute	Description
Account	The account to which the IMSI belongs.
Action	Event action (e.g., registration, authentication).
APN	Access Point Name.
Called	Called party number.
Charge ID	Charging ID.
Code	Event error code (e.g., 0 for success, ### for error).
Core Network	Name of the core network.
DCNR	Dual-Connectivity with New Radio (DCNR) field indicates a connection to a 5G network alongside the 4G network.
Diagnostic	Not applicable.
Direction	Not applicable.
Date	Timestamp indicating the date and time of the event, adjusted to the local time zone.
EID	eUICC ID (Embedded Universal Integrated Circuit Card Identifier) of the SIM.
ICCID	ICCID (Integrated Circuit Card Identifier) of the SIM.
IMEI	International Mobile Equipment Identity of the device modem.
IMSI	International Mobile Subscriber Identity of the SIM.

Attribute	Description
IP	IP address allocated by the Packet Data Network Gateway (PGW).
Location	Location information, including Mobile Country Code (MCC) and Mobile Network Code (MNC).
MME	Mobility Management Entity address.
MSISDN	Mobile Station International Subscriber Directory Number assigned to the IMSI.
Node	Core network node that generated the event (e.g., HLR Registration, HLR/HSS, VLR, SMSC, SCP, USSD, API, GGSN/PGW).
NSAPI	Network Service Access Point Identifier code.
Reason	Error reason code.
RAT	Radio Access Technology.
Routing Number	Routing number.
SCCP	Signaling Connection Control Part.
SGSN	Serving GPRS Support Node address.
SIM (Subscriber) Alias	Displays a SIM assigned Alias name for easier identification of the device.
Status Type	Not applicable.
UPF C	IP address of the used User Plane Function (UPF) "Control Plane".
UPF U	IP address of the used User Plane Function (UPF) "User Plane".

10.2 View Events

To view the Events Table and the Events Timeline, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Go to the **Search** bar and select one of these identifiers:
 - \circ IMSI
 - MSISDN
 - ICCID

 \circ EID

- 3. Select a Timeframe option:
 - Last Hour
 - Last 24 Hours
 - Last 7 Days
 - \circ Custom
- 4. Click **Customize Columns** to select the event table columns and reorder the table display.
- 5. Click Enable Local Timezone to display local events times.
- 6. Click the **Graph View** bar to display the Timeline panel.
- 7. Click the **Filter** panel to filter events by the different categories. Select the Event table columns and click **Apply**.

NOTE: All Events are registered in the system at UTC 0 time standard, regardless of their actual location around the globe. When the Enable Local Timezone option is enabled, the event timestamp you see in your browser is adjusted to your browser/PC local time. For example, if your browser is in London in the UK, the Event timestamp is adjusted to UTC +1 when displayed in your browser.

10.3 Filter Events

To filter the event table, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Click the **Filter** control on the page header.
- 3. Select each of the filter tabs to specify the appropriate parameters.
- 4. Click **Apply** to update the Event Data table.

NOTE: For more information refer to "Event Parameters" on page 202

10.4 Create Filter Sets

Users can mark and save frequently used Filter Sets. The CMP Portal supports two types of Filter Sets:

- **System Filter Set:** Predefined system filters help users to quickly identify common problems like empty sessions and billing rejections.
- Custom Filter Set: Users can create, edit, delete, and save custom filters to improve workflow efficiency. Filters can be created for personal use or made visible for use by other users in your organization.

A screen capture of the Filter Set options is shown here.

											Select Filter Set	System Filters
≡ Products		s ents							Q	IMS	Filters	Clea
My Orders		Enable local ti	me zone - Current enabl	ed time zone UTC							Data Session Retion	System
Dashboard											Q Search	
SIMs		 ✓ II Graph 	View								None	
51Ms Provisioning	4	Events Use yo	ur keyboard arrows to	scroll left & right.							Registration Failure	Syste
latch Operations		ACCOUNT	NIT	SUBSCRIBER ALIAS	10010	VLR ()	ED	IMSI	MSISDN	ACTION ()	Empty PDP	Syste
atalog 🗸						VLR ()	ED				Data Session Rejection	Syste
y Sub-Accounts	~	-	17.12.24, 11:02:43		8935711001077437421			123400011663125	97234658769	Send Authentication C		
oviders 🗸	~	·	17.12.24, 11:02:43	-	8935711001077437421	-	-	123400011663125	97234658769	Send Authentication C		
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der SIMs											Result Description ③	
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ttings											IP 💿	
											Core Network ①	
											Location 🛇	
											Location (mccmnc)	

10.4.1 Create Filter Set

To create a new filter set, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Click the **Filter** icon to display the Filter sidebar.
- 3. Select one or more filters to include in your Filter Set.
- 4. Click Save to display the Save Filter Set dialog box.
- 5. Enter a **Filter Set Name**.
- 6. Select the **Visible to Others** toggle button (optional). Filters that are marked as visible to others are displayed with special icon.
- 7. Select the **Favorite** option to add this filter to your favorite filter list (optional).
- 8. Click Apply to save Filter Set.

A screen capture of Save Filter Set dialog box is shown here.

Events Module

		Filter Set Name	Visible to Others		Save Filter Set	
=	Events			0	Filters	Clear All
Products	Lvents				Ranges	~
My Orders	Enable local time zone - Current enabled time zon	e urc+2 include undefined	SIMs		Node/Action Type 〇	~
🔝 SIMs	✓ II Graph View				APN O	- -
SIMs Provisioning	• III Graph free					
Batch Operations	0 Events Use your keyboard arrows to scroll left	& right.			Result Description ©	~
		Save filter set		×	IP 🛈	~
[5] Catalog ~ 꼳, My Sub-Accounts		The Same		_	Core Network 💿	^
곳, my sub-Accounts 곳 Providers ~		My Filter Set			Q Search	
(··) Rates & Fees		O Up to 34 characters		4	310380	1
(···) Rates & Fees		Visible to others	•	1	airtel	
		A Favorite		~~~~~	AIRTELIISS	
Reports		I'l ravonie			ASHTELEFONICAPGW	
دج ⁰ . Rules & Notifications →			CANCEL	AVE	Ctg	
문 Order SIMs		-	Please try aga	d for.	CTG	
Billing & Invoices						
Support					Location ①	Ý
段 Settings					SGSN O	^
					SGSN	
			Powered by BoLIVE			
					SAVE	CANCEL APPLY

10.4.2 Update Filter Set

To update a Filter Set, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Click the **Filter** icon to display the Filter sidebar.
- 3. Select a Filter Set from the list.
- 4. Select one or more filters to include in your Filter Set.
- 5. Click **Update** to update the Filter Set.

TIP: Click Save As and enter a name to create a new Filter Set.

10.5 Export Events

This feature enables users to export signalling event data to an external CSV file. There are two options to export the data displayed in the SIMs table:

• **Export Displayed Columns:** Export data from the table containing only the columns currently visible. It allows users to tailor their exports to include only the information currently displayed in the table.

- Export Displayed and Hidden Columns: Export data from the table, including both the columns currently displayed and any hidden columns. It provides users with a comprehensive export of all available data columns, ensuring no information is omitted from the exported dataset.
- Export Affected IMSI: Export a distinct list of SIMs that generated any event for the specified time period and filter set. i.e. the exported list shall display each SIM once.

NOTE: If the events table has a larger number of events than can be exported into a single file, an appropriate message is displayed. You may need to re-filter the events table to reduce the table content and obtain finer granularity.

Export Event Table

To export Table events to a csv file, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Click **Customize Columns** and select the columns you want to display in the events table.
- 3. Click **Save** to update the SIMs table.
- 4. Click Export Options and select one of these options:
 - a. Export Displayed Columns:
 - b. Export Displayed and Hidden Columns
 - c. Export Affected IMSI
- 5. Click **Export** to save the csv file to your local disk.

Export Event Chart

To export an event chart to a csv file, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Click the **Graph View** bar to display the Timeline panel.
- 3. Click **Export** to save the events timeline to a csv file on your local disk.

NOTE: You can export a maximum of 10,000 events for each export operation.

10.6 Customize Event Table

Users can customize the view by selecting which columns are displayed and in which order. This convenient feature enables focus on the specific information they need.

To customize the data table columns, do these steps:

- 1. Select **Events** from the sidebar Menu.
- 2. Click Customize Columns on the table header to display a list of columns.
- 3. Check one or more columns you want to display in the event table.
- 4. Grab the icon on the right side of the column list.
- 5. Drag the selected column up or down as desired.
- 6. Repeat Steps 4-5 for each of the selected columns.
- 7. Click Save to update event data table.

A screen capture of the Customize Columns dialog box is shown here.



11 Rules and Notifications

The Rules and Notifications module enables users to create customized rules to monitor SIM card activities and send notifications when certain conditions are met. This module helps ensure effective management of data and SMS usage across accounts.

An example of the Rules and Notifications module is shown here.

	A Rule Name	B Rule Type	C Binding Type	D Apply On	E Notification Type	F Rule Status		G Nev Rul
≡(RULES & NOTWICATIONS > RULES							_
፪ Products 단 My Orders	Rules						Q	+ • ∓
과 Dashboard G SIMs	RULE NAME	RULE TYPE	BINDING TYPE	APPLY ON	NOTIFICATION TYPE	ACTIVE	LAST UPDATED	
Batch Operations	Country Change - Io	SIM Monitoring	Account	IoT Technologies	EMAIL	true	01/02/2025	
🛐 Catalog 🗸 🗸	Inactivity SIM 8935	Inactivity	SIM	8935711001000030012	EMAIL	true	01/02/2025	
ස් My Sub-Accounts	First A 8935711001	First Event	SIM	8935711001000031168	EMAIL + 1	true	11/01/2024	
ダ Providers	IMEI Change IOT	SIM Monitoring	Account	IoT Technologies	EMAIL	true	01/02/2025	
() Rates & Fees	Smart Usage 80 per	Usage	Account	Smart Ltd.	EMAIL	true	01/02/2025	
🖯 Events	First activity (IoT)	First Event	Account	IoT Technologies	EMAIL	true	24/10/2022	
Reports	Money 10 USD rule	Money	SIM	8935711001000030863	нттр	true	02/02/2025	
A Rules & Notifications	80% wallet used	Rate	Account Aggregation	Smart Ltd.	EMAIL + 1	true	01/02/2025	
Rules	IMEI lock	SIM Monitoring	Account	toT Technologies	EMAIL	true	01/02/2025	
Notifications	IMEI Change Smart	SIM Monitoring	Account	Smart Ltd.	EMAIL	true	01/02/2025	
Billing & Invoices	80% wallet rached	Rate	Sell Plan	test TD rate	EMAIL + 1	true	01/02/2025	
O Support	and a second distribution			and a second	anneada -	Rows per page: 2		6

A description of the table columns is provided in this table.

Column	Description
Rule Name	The name assigned to the notification rule when it was created.
Rule Type	The category of the rule, indicating its specific function (e.g., Pre-paid, Money).
Active	Indicates whether the rule is currently active (enabled) or suspended (disabled).
Binding Type	The scope of application for the rule, which can be Account, SIM, Sell Plan, Buy Plan, etc.
Apply On (Account)	The specific account to which the notification rule is applied, often the user's main account or a sub-account.
Notification Type	The method of notification which can include Email or HTTP Push API.

11.1 Rule Settings

The process of creating a new rule involves several steps to define the rule settings. The rule settings include:

- **Rule Type:** Choose from 8 different rule types.
- **Binding Type:** Determine the scope of application for the rule.
- Calculation Method: Set a threshold to determine when the rule is applicable
- Trigger Conditions: Specify a value to trigger a notification
- Notification Method: Set the type of method that is generated.

The process of creating a new rule is shown here.

1 Rule Type	+ 2 Binding Type	+ 3 Calculation	Type + 4 Trigger	Condition
	5 Noti	fication Method		

A screen capture of the Rule Settings dialog box is shown here.

		В	
	Rule Type	Binding Type	Calculation ⁻
	Create/Update rule		×
	Rule type* -	Account	Calculation Type
Rule Details	Rule Details		
	Rule Name*		
	Rule Description		
Apply On	Apply On		
	floLive		¥
Notify When —	Notify When		
	Service Type*	✓ Remaining Balance*	O Units* ▼
Notifications —	Notifications		
	Notification		
	Notification Type*	✓ Notification Channels*	*
	Notification description*		
			h
	+ NOTIFICATION		

11.1.1 Rule Types

Users can create different types of rules as described in this table.

Rule Type	Description
Usage	Applies to SIMs attached to a Usage Plan. Tracks data and SMS consumption for accounts or SIMs; SIM pre-paid balance of data and SMS services.
Money	Applies to SIMs attached to a Money Plan. Monitors account balances and spending limits and tracks the SIMs pre-paid money balance.
Rate	Applies to SIMs attached to an Account Rate Plan. Monitors usage or costs consumption associated with various services to prevent overspending.
Plan Rate	Applies to SIMs attached to Plan Rate. Notifications are based on usage for specific plans.
First Event	Generates notifications on the first instance of SIM activity.
Pool	Monitors usage across a group of SIMs linked to a shared plan (i.e. Pool Plan).
Inactivity	Notifies users regarding SIMs that have not shown activity within a defined period.
SIM Monitoring	Monitors SIM-specific activities and notifications for changes such as device attachment, country change, etc.

11.1.2 Binding Types

Each rule must have a binding type to determine its application scope. A description of the various binding types is provided in this table.

Binding Type	Description
Account	Applies to all SIM members of the account.
SIM	Targets a specific individual SIM.
Account Aggregation	Tracks the total usage for all SIMs allocated to a specific account.
Sell Plan	Links the rule to all account SIMs attached to a specific sell plan created for customers.
Buy Plan	Applies the rule to all account SIMs attached to a specific plan created by the user parent account.

11.1.3 Calculation Type

The calculation type (or method) defines the rule monitoring type. The calculation metrics vary based on the combination of Rule Type and Binding Type.

A description of the calculation types is provided in this table.

Calculation Type	Description
Fixed	Generates a notification when usage reaches a user-defined threshold.
Percentage	Generates a notification when usage falls below a specified percentage of the total prepaid service quota.

Calculation Type	Description
Accumulative	Tracks cumulative usage over time, generating notifications based on total consumption.
Money	Monitors monetary spending and triggers notifications when spending reaches a threshold.
Service	Monitors service usage (e.g., SMS or data) and triggers notifications based on predefined conditions.

11.1.4 How Rules are Triggered

The "Apply On" setting and the "Notify When" setting work in sequence to define how and when a rule triggers a notification, but they have distinct roles:

- **Apply On:** This setting defines the specific population target (account/SIM/Plan etc) based on the selected binding type. The condition related to that entity must be met for the rule to become active. This condition usually involves a metric and a threshold or other criteria.
- Notify When: This setting defines the threshold type. It determines the exact threshold level to trigger this rule notification. For example notify when SIM prepaid usage plan left balance fallen to 20%.

The "Apply On" setting establishes the precondition for a notification. The "Notify When" setting specifies the exact value this precondition is satisfied. The rule only triggers a notification if the "Apply On" condition is met, and the "Notify When" conditions are also fulfilled.

For example, consider a rule with these settings:

- Rule Type: Data Usage
- **Apply On:** SIM: Monthly pre-paid Plan with 5 GB.
- Notify When: When Data left balance fallen below 100MB.

In this scenario, the rule monitors the monthly data usage of all account SIM cards. The "Apply On" setting defines the precondition account name. The "Notify When" setting defines the service type as "Data" and "Remaining Balance" is set to 100 MB.

IMPORTANT: Both "Apply On" and "Notify When" are necessary to fully define the rule monitoring behavior.

11.1.5 Usage Rules

The Usage Rule Type allows users to create notifications based on the usage of data or SMS services associated with accounts and SIMs. This type of rule is useful for monitoring service consumption and to receive a notification when the SIMs pre-paid balance is about to run out.

Binding Types

The available binding types for Usage Rules are described in this table.

Binding Type	Description
Account	This rule applies to all members under the selected account, allowing for collective usage monitoring. Notifications are generated when the pre-paid balance of Data or SMS services in an account has fallen to or is below a threshold you set.
SIM	This rule applies to a specific SIM within the account, enabling detailed tracking of individual SIM usage. The Usage-SIM combination generates notifications when the pre-paid balance of that single SIM has fallen to or is below a threshold you set.
Sell Plan	This rule applies to a specific plan created for customers, enabling monitoring of usage for all SIMs linked to this sell plan. The Usage-Sell Plan combination generates notifications when the pre-paid balance of Data or SMS services in any of the SIMs associated with the plan has fallen to or is below a threshold you set.
Buy Plan	This rule applies to a specific plan created by the parent account, and enables monitoring of usage for all SIMs linked to this buy plan. The Usage-Buy Plan combination generates notifications when the pre-paid balance of Data or SMS services in any of the SIMs associated with the plan has fallen to or is below a threshold you set.

Calculation Type

The calculation types for Usage Rules are described in this table.

Calculation Type	Description
Fixed	Notifications are triggered when the SIM pre-paid plan remaining balance reaches the defined threshold value.
Percentage	Notifications are triggered when SIM pre-paid plan remaining balance reaches a specified percentage value.
Accumulative	Used for SIM Automatic Throttling control based on the SIM data usage.

11.1.6 Money Rules

The Money Rule Type allows users to create notifications based on the remaining balance and spending activity associated with accounts and SIMs. This type of rule is useful for monitoring financial thresholds and to receive notifications when the SIM pre-paid money balance is about to run out.

Binding Types

The available binding types for the Money rule are described in this table.

Binding Type	Description
Account	This rule applies to all members under the selected account, allowing for collective financial monitoring. Notifications are generated when the pre-paid money balance in the account has fallen to or is below a threshold you set.
SIM	This rule applies to a specific SIM within the account, enabling detailed tracking of the individual SIM's balance. The Money-SIM combination generates notifications when the pre-paid money balance of that single SIM has fallen to or is below a threshold you set.
Sell Plan	This rule applies to a specific plan created for customers, enabling monitoring of the money balance for all SIMs linked to this sell plan. The Money-Sell Plan combination generates notifications when the pre-paid money balance in any of the SIMs associated with the plan has fallen to or is below a threshold you set.
Buy Plan	This rule applies to a specific plan created by a parent account, and enables monitoring of the money balance for all SIMs linked to this buy plan. The Money-buy Plan combination generates notifications when the pre-paid money balance in any of the SIMs associated with the plan has fallen to or is below a threshold you set.

Calculation Type

The calculation types for Money Rules are described in this table.

Calculation Type	Description
Fixed	Notifications are generated when the money balance reaches a defined threshold.
Percentage	Notifications are triggered when the percentage of the total prepaid money deposit reaches a defined threshold.

Calculation Type	Description
Accumulative	Used for SIM Automatic Throttling control based on the SIM data usage.

11.1.7 Rate Rules

The Rate Rule Type allows users to generate notifications based on the spending and service usage associated with accounts and SIMs. This type of rule is essential for monitoring expenses and ensuring that usage remains within set thresholds.

Binding Types

The available binding types for Rate Rules are described in this table.

Binding Type	Description
Account	Applies to all members under the selected account, allowing for collective financial and consumption monitoring. The rule generates notifications when the money spent, or services (Data or SMS) used, reaches or exceeds a threshold you set.
Account Aggregation	Generates notifications when the aggregated money spent, or services (Data or SMS) used, reaches or exceeds a threshold you set. In other words, the expenditures (money or service volume) are summed (aggregated) across all members of the selected account, and when the account exceeds the threshold, the rule generates the notification.
Sell Plan	Generates notifications when the money spent, or services (Data or SMS) used, in any SIM in your child account(s) that you attached to an account rate plan reaches or exceeds a threshold you set.
SIM	Generates notifications when money spent, or services (Data or SMS) used, reaches or exceeds a threshold you set on a single designated SIM.
Buy Plan	Generates notifications when the money spent, or services (Data or SMS) used, in any SIM in your account(s) that you attached to an account rate plan reaches or exceeds a threshold you set.

Calculation Type

The calculation types for Rate Rules are described in this table.

Calculation Type	Description	
Money	Notifications are generated when the total money spent reaches a defined threshold.	
Service	Notifications are triggered when the usage of specific services (e.g., SMS, Data) reaches a defined limit.	
Accumulative	Used for SIM Automatic Throttling control based on the SIM data usage.	

11.1.8 Plan Rate Rules

The Plan Rate Rule Type allows users to generate notifications based on the fixed costs and usage of data and SMS services associated with specific plan.

Binding Types

The available binding types for Plan Rules are described in this table.

Binding Type	Description		
Account	Applies to all members under the selected account and generates notifications when Data or SMSs reach or exceed a set threshold.		
Account Aggregation	Generates notifications based on aggregated spending or service usage across all members of the selected account. It ensures that the totals do not exceed defined thresholds across all SIMs in the account.		
Sell Plan	Applies to a specific plan created for customers. Notifications are generated when the money spent or services used in any of the SIMs associated with the plan exceed defined limits.		
Buy Plan	Generates notifications when the money spent, or services (Data or SMS) used, in your main account or child account(s) that your Parent account attached to a plan, reaches or exceeds a threshold you set.		
SIM	Applies to a specific SIM within the account. Notifications are generated when the aggregated money spent or services used by that single SIM reach or exceed a threshold you set.		

Calculation Type

The calculation types for Plan Rate Rules are described in this table.

Calculation Type	Description	
Money	Notifications are generated when the total money spent reaches a defined threshold	
Service	Notifications are triggered when the usage of specific services (e.g., SMS, Data) reaches a defined limit.	
Accumulative	Used for SIM Automatic Throttling control based on the SIM data usage.	

11.1.9 First Event Rules

The First Event Rule Type allows users to create notifications that trigger upon the first occurrence of activity from new SIM cards. This type of rule is particularly useful for monitoring any initial usage events and ensuring proper onboarding of new services.

Binding Types

The available binding types for the First Event Rules are described in this table.

Binding Type	Description		
Account	Generates a notification when any new SIM for a designated account invokes an event for the first time. This allows for monitoring of new activity within the entire account.		
Sell Plan	The First Event-Sell Plan combination generates a notification when any new SIM in your child account(s) that you attached to a plan you created invokes an event for the first time. This helps track initial events for new SIMs in your custom plans.		
Buy Plan	The First Event-Buy Plan combination generates a notification when any new SIM in your main account, that your Parent account attached to a plan, invokes an event for the first time. This monitors new SIM activations within specified plans.		
SIM	The First Event-SIM combination generates a notification when one new SIM invokes an event for the first time, focusing on the individual activity of each new SIM.		

Calculation Type

The calculation types for First Event Rules are described in this table.

Calculation Type	Description			
First Event	A notification is triggered by the first instance of usage activity on the selected account or SIM. This provides visibility into new account or SIM behavior as they begin to utilize services.			

11.1.10 Pool Plan Rules

The Pool Plan Rule Type allows users to create notifications based on the usage of data or SMS services associated with accounts and SIMs. This type of rule is useful for monitoring service consumption and avoiding unexpected over-use.

Binding Types

The available binding types for Pool Plan Rules are described in this table.

Binding Type	Description			
Sell Plan	This rule applies to all members under the selected account. Notifications are generated when the pre-paid balance of Data or SMS services in a specified Sell Pool Plan reaches a defined threshold.			
Buy Plan	This rule applies to all members under the selected account. Notifications are generated when the pre-paid balance of Data or SMS services in a specified Buy Pool Plan an account reaches a defined threshold.			

Calculation Type

The calculation types for Pool Plan Rules are described in this table.

Calculation Type	Description		
Fixed	Notifications are generated when the pool remaining balance reaches a defined threshold.		
Percentage	Notifications are generated when the pool pre-paid balance reaches a specified percentage of the total prepaid service quota.		

11.1.11 Inactivity Rules

The Inactivity Rule Type enables users to generate notifications when a SIM or multiple SIMs within an account remain inactive for a specified duration of time.

Binding Types

The available binding types for Inactivity Rules are described in this table.

Binding Type	Description			
SIM	Generates a notification when the duration of inactivity of a selected individual SIM has reached a threshold.			
Account	Generates a notification when the duration of inactivity of any SIM in a selected account has reached a defined threshold.			
Sell Plans	Generates a notification when the duration of inactivity of any SIM attached to a specified Sell Plan has reached a defined threshold.			
My Plans	Generates a notification when the duration of inactivity of any SIM attached to a selected Parent Buy Plan has reached a defined threshold.			

Inactivity Type

The inactivity types for Inactivity Rules are described in this table.

Calculation Type	Description	
Network Inactivity	Generates notifications when a SIM has shown no activity at all for the set time threshold, indicating complete inactivity in terms of network usage (e.g. SIM registration, update location).	
Usage Consumption Inactivity	Generates notifications when a SIM has shown no usage activity for the set time threshold, focusing specifically on service consumption inactivity, such as data or SMS.	

11.1.12 SIM Monitoring Rules

This rule monitors different aspects of SIM card activity. The rules provide notifications based on IMEI changes, IP address changes, IMSI switch , IMEI lock status and initial IMEI registration and SIM visited country change.

Binding Types

The available binding types for SIM Monitoring are described in this table.

Binding Type	Description	
SIM	Applies to individual SIM Cards. This rule is triggered when the monitoring status of a SIM card changes.	
Account	Applies to an account with one or more SIM card. This rule is triggered when the monitoring status of a SIM card changes.	

Monitoring Types

The SIM Monitoring types are described in this table.

Monitoring Type	Description	
IMEI Initial	This rule triggers when the SIM card IMEI (International Mobile Equipment Identity) is first registered or detected b the system. This is typically useful for initial device provisioning or tracking.	
IMEI Change	This rule triggers when the SIM card IMEI changes. This is highly unusual and could indicate a SIM swap or tampering. It triggers a notification if this happens.	
IMEI Locked	This rule triggers when the SIM card is automatically locked (i.e. suspended) due to the Lock to First IMEI. This is highly unusual and could indicate a device swap or tampering.	
IP Change	This rule triggers when the IP address associated with the SIM card changes.	
IMSI Change	This rule triggers when the IMSI (International Mobile Subscriber Identity) associated with the SIM card changes.	
Country Changes	This rule triggers when the SIM card connected country is changed.	

11.2 Plan Depletion Rule

The Plan Depletion Rule automatically triggers a PCRF action when data consumption for a plan is depleted. This rule enables users to control data usage, preventing unexpected overages and ensuring a consistent user experience.

NOTE: For more information about Plan Depletion, refer to "How Throttling Works" on page 138.

The Create New Depletion Rule settings are shown here.

floLIVE User Manual

			A	В	С
			Rule Type	Binding Type	Plan Type
		Create/Update rule			×
		Rule type* Plan Depletion	•	Binding type Sell Plan	Plan type Usage
		Rule Details			
D	Rule Name	Throttling 1			
E	Rule Description ——	Rule Description Throttling 1			
		Apply On			
F	Apply On Account	Account Name*			-
G	Apply On Plan ———	Plan Name*			
		Service Type*		•	
H	Activate PCRF Rile —	Add PCRF rule			
J	PCRF Rule ID	PCRF Rule ID*			
		Notifications			
К	Add Notification ——				
					CANCEL CREATE

To create a new Depletion Rule, do these steps:

- 1. Select **Rules & Notifications | Rules** on the sidebar menu to display the Rules screen.
- 2. Click +Rule to display the Create/Update Rule dialog box.
- 3. Select **Depletion Rule** from the list in the **Rule Type** field.
- 4. Select Sell Plan from the Binding Type field.
- 5. Select **Usage** from the **Plan Type** field.
- 6. Enter a Rule Name in the Rule Details group.
- 7. Enter a **Rule Description** in the Rule Details Group (optional).
- 8. Select an Account Name from the list displayed in the Apply On group.
- 9. Select an **Plan Name** from the list displayed in the **Apply On** group.
- 10. Check the Add PCRF Rule option.
- 11. Add a system value in the **PCRF Rule Field**.
- 12. Go to the **Notify When** Group and do these actions:

- a. Select a Service Type.
- b. Enter an appropriate value in the **Remaining Balance** field.
- 13. Go to the **Notifications Group** and do these actions:
 - a. Select a Notification Type.
 - b. Select a Notification Channel.
- 14. Click **Create** to activate the rule.

11.3 Plan Expiration Rule

Plan Expiration means the data plan has ended. When this happens, access to data is blocked and users areredirected sent to a specific white-list url location where they can add more data or choose a new plan.

NOTE: For more information about Plan Depletion, refer to "How Throttling Works" on page 138.

The Create New Expiration Rule settings are shown here.

		A	в	C
	R	ule Type	Binding Type	Plan Type
	Create/Update rule			×
	Rule type* Plan Expiration	•	Binding type* Sell Plan	Plan type Usage
	Rule Details			
D Rule Name	Whitelist URL			
E Rule Description —	Rule Description Whitelist URL			
F Apply On Account	Apply On Account Name*			•
G Apply On Plan ——	Plan Name*	•		
H Activate PCRF Rile	Add PCRF rule			
PCRF Rule ID	115			
	Notifications			
K Add Notification –				
				CANCEL CREATE

To create a new Depletion Rule, do these steps:

- 1. Select **Rules & Notifications | Rules** on the sidebar menu to display the Rules screen.
- 2. Click +Rule to display the Create/Update Rule dialog box.
- 3. Select Expiration Rule from the list in the Rule Type field.
- 4. Select Sell Plan from the Binding Type field.
- 5. Select Usage from the Plan Type field.
- 6. Enter a Rule Name in the Rule Details group.
- 7. Enter a Rule Description in the Rule Details Group (optional).
- 8. Select an Account Namee from the list displayed in the Apply On group.
- 9. Select an **Plan Name** from the list displayed in the **Apply On** group.
- 10. Check the Add PCRF Rule option.
- 11. Add a system value in the **PCRF Rule Field**.
- 12. Go to the **Notify When** Group and do these actions:

a. Select a Service Type.

- b. Enter an appropriate value in the Remaining Balance field.
- 13. Go to the Notifications Group and do these actions:
 - a. Select a Notification Type.
 - b. Select a Notification Channel.
- 14. Click **Create** to activate the rule.

11.4 Create Rule

Before you begin this procedure, make sure you refer to the information provided in the "Rule Settings" on page 209 section.

To create or update a rule, do these steps:

- 1. Select **Rules & Notifications | Rules** on the sidebar menu to display the Rules screen.
- 2. Click +Rule to display the Create/Update Rule dialog box.
- 3. Select a rule from the list in the **Rule Type** field.
- 4. Select the appropriate **Binding Type** from the list.
- 5. Select the appropriate **Calculation Type** from the list.
- 6. Enter a **Rule Name** in the Rule Details group.
- 7. Enter a **Rule Description** in the Rule Details Group.
- 8. Select an Account and Plan name from the list displayed in the **Apply On** field.
- 9. Go to the **Notify When** Group and do these actions:
 - a. Select a Service Type.
 - b. Enter an appropriate value in the **Remaining Balance** field.
- 10. Go to the Notifications Group and do these actions:
 - a. Select a Notification Type.
 - b. Select a Notification Channel.
- 11. Click **Create** to activate the rule.

NOTE: Refer to "Rule Settings" on page 209 for a detailed description of the Rule Type, Binding Type, Calculation Method and Trigger Conditions.

11.5 Edit Rule

To edit a rule, do these steps:

- 1. Select **Rules & Notifications | Rules** on the sidebar menu to display the Rules screen.
- 2. Select the Action menu for a Rule displayed in the table and click Edit.
- 3. Enter a **Rule Name** in the Rule Details group.
- 4. Enter a **Rule Description** in the Rule Details Group.
- 5. Go to the **Notifications Group** and do these actions:
 - a. Select a Notification Type.
 - b. Select a Notification Channel.
- 6. Click **Update** to save the rule settings.

NOTE: Refer to "Rule Settings" on page 209 for a detailed description of the Rule Type, Binding Type, Calculation Method and Trigger Conditions.

11.6 Delete Rule

To delete a Rule, do these steps:

- 1. Select **Rules & Notifications | Rules** on the sidebar menu to display the Rules screen.
- 2. Select the **Action** menu for a Rule displayed in the table and select the **Delete** option.
- 3. Click **Delete** when the message dialog is shown.
- 4. Click **Yes** to complete the delete operation

11.7 Notification Channels

The Notification module defines how the CMP portal communicates events resulting from a triggered rule. There are two methods of communication:

• **Email Channel:**Sends email notifications when a rule is triggered. Configuration requires specifying recipient email address.

 HTTP Push API Channel: Sends notifications as HTTPS POST requests to a specified URL. Configuration requires specifying the target URL and potentially authentication details.

NOTE: Each rule can have multiple notifications, each using a single channel (email or HTTP). You can mix email and HTTP notifications within a single rule.

A screen capture of the Notification module is shown here.

	A Notification Channels	B Notificatio Logs	n HTTP Push API Channels		Create New Channe
로 Products 같 My Orders 과 Dashboard	Notifications	NOTIFICATIO	N LOG5	NOTIFICATION CHANNELS	
SIMs SIMs Provisioning Batch Operations	Notification Chan		th API Channels		+ CHANNEL
토 Catalog ~	17 Items	CREATION DATE	EMAIL RECIPIENTS	EMAIL SUBJECT	Q III
لللہ Providers (☉) Rates & Fees	555 delete mel'123 new	29/08/2024	444@gmail.com test@test.com	44 test@test.com	1
Events	imei 2 ilai testt	03/07/2024	o huberko@sp6-ukraine.com	test	1
Rules & Notifications ^	IMEI Test	09/05/2024	o, dashynych⊜spd-ukraine, com	test	1
Notifications 몇 Order SIMs	Billing	25/04/2024	adi@test.com support@DONT_USE_REAL_EMAILS.net/bs@DONT_USE_REAL_EMAILS.net		:
Billing & Invoices Support	New test@test	10/03/2024 29/02/2024	a@test.com test@test.com	fdafaðfad hey!!!	1
鐐 Settings	test222	29/02/2024	test@test.com	sdasda	:

11.7.1 Create Notification Channel

User can create two types of notification chanels:

 Email Channel:Sends email notifications when a rule is triggered. Configuration requires specifying recipient email addresses. HTTP Push API Channel: Sends notifications as HTTP POST requests to a specified URL. Configuration requires specifying the target URL and potentially authentication details.

Create Email Notification Channel

To create a new Notification Email Channel, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the Notification Channels tab.
- 3. Select the Email Notification Channels tab.
- 4. Click +Channel to display the Create New Email Notification dialog box.

- 5. Enter a Channel Name field.
- 6. Specify one or more Email Recipients.
- 7. Enter an Email Subject in the Email Subject field.
- 8. Click **Create** to create the new email notification channel.

A screen capture of the Create New Email Channel dialog box is shown here.

	Channel Name	Email Status	Email Recipients		
≡< Iducts Orders shboard	Notificat ons	NOTIFICATION LO	65	NOTIFICATION CHANNELS	
As As Provisioning tch Operations	Notification Chan	nels		_	+ CHAN
alog 🗸 🗸	Create New emai	il notification channel		×	Q
Sub-Accounts	Channel Name*		Email Recipients*	cr	
widers	Global Emaill List		John.Dee@flolive.net One or more recipients can be entered		
es & Fees	- Email Subject*				
ents	Flolive Rule Notifica	tion		om	
ports					
es & Notifications					
tules				CANCEL CREATE	
lotifications	test	02/05/2024	adi@test.com	Test	
	Billing	25/04/2024	support@DONT_USE_REAL_EMAILS.net_bs@DONT_USE_REAL_EMAILS.net	-	
der SIMs ing & Invoices	New	10/03/2024	a@test.com	fdsfsdfsd	
			test⊜test.com	hey!!!	
oport	test@test	29/02/2024			

A description of the Email Notification fields is provided in this table.

Attribute	Description
Channel Name	A descriptive name to identify the Notification Channel.
Email Recipients	A list of one or more applicable email recipients. Multiple email recipients are separated by a comma (,)
Email Subject	The subject of the email that is displayed from this channel.

Create New HTTP Push API Notification Channel

To create a new Notification Email Channel, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the Notification Channels tab.
- 3. Select the HTTP Push API Channelstab.

- 4. Click +Channel to display the Create New Email Notification dialog box.
- 5. Enter a Channel Name field.
- 6. Enter a Shared Key to define a trusted communication source
- 7. Enter a **URL** that serves as the endpoint for receiving event.
- 8. Click **Create** to activate the new notification channel.

A screen capture of the Create HTTP Push API Channel dialog box is shown here.



A description of the HTTP Push API Notification fields is provided in this table.

Attribute	Description			
Channel Name	A descriptive name to identify the Notification Channel.			
URL	The target URL for the notification; only one URL is allowed per HTTP Notification Channel			
Shared Key	A shared key to ensure communication only with a trusted caller; the shared key is acting as a public key to match the connection between a trusted caller (that is, the platform) into the customer URL.To authenticate the message (API + content) coming from the other side (i.e. from the CMP platform), you set the Shared Key value on the portal (as described in the following procedure) and then validate that the message is received with same key.			

HTTP Push API Notification Content Payload

A description of the HTTP Push API parameters is provided in this table is provided in this table.

Parameter	Description
notificationId	The system-generated ID assigned to the notification.
notificationSource	The Rules and Notifications module where the triggering rule was created.
actionName	The Rule type-Binding type combination (e.g., FirstEventAccount).
ruleName	The name of the rule that triggers the notification.
notificationName	The name given to the notification.
userDescription	The optional description provided for the rule.
accountId	The ID of the account containing the rule.
accountName	The name or alias of the account containing the rule.
iccid	The ICCID of the SIM that triggered the notification.
payload	The container of the push notification content.
body	The notification body; parameters vary by rule type/binding type.
notificationDescription	The message content of the push notification.
subscriberId	The ID of the subscriber receiving the notification.
threshold	The rule defined threshold.
simimsi	The list of IMSIs of the SIM (subscriber).
signature	The system-generated signature verifying the "body" response parameters.
usedImsi	The IMSI of the SIM that triggered the notification.

NOTE: The HTTP API Push Notification parameters are common for all Rule type-Binding type combinations. However, the "body" parameters may vary between rules.

11.7.2 View Notification Channels

The Notification Channels table contains a detailed list of all Email and HTTP Push notifications channels.

View Email Notification Channels

To view the Email Notification Channels, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the Notification Channels tab.
- 3. Select the Email Notification Channelstab.

A screen capture of the Email Notification Channel screen is shown here.

Channel Name	B Creation Date	Email Recipients	C Email Subject	
Notification Cha		API Channets		+ CHANNE
17 Items				Q III
CHANNEL NAME	CREATION DATE	EMAIL RECIPIENTS	EMAIL SUBJECT	
555	29/08/2024	444@gmail.com	44	1
delete me‼123 new	27/08/2024	test@test.com	test@test.com	1
imei 2	03/07/2024	o.hubenko@spd-ukraine.com	test	1
ilai testt 12/05/2024 ilai.ron		ilai.ron@fiolive.net	hhh	1
IMEI	09/05/2024	o.dashynych@spd-ukraine.com	test	
test	02/05/2024	adi@test.com	Test	
Billing	25/04/2024	support@DONT_USE_REAL_EMAILS.net,bs@DONT_USE_REAL_EMAILS.net	-	

A description of the Email Notification columns is provided in this table.

Attribute	Description
Channel Name	The name you gave the Notification Channel when you created it
Creation Date	The date you created the channel
Email Recipients	All Email recipients you listed in the channel when you created it; each channel can have multiple email recipients (separated by a comma (,)
Email Subject	The subject of the email(s) that are sent using this Email channel

View HTTP Push API Channels

To view the HTTP Push API Channels, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the Notification Channels tab.

3. Select the HTTP Push API Channelstab.

A screen capture of the HTTP Push API Channel screen is shown here.

Channel Name	Creation Date	URL Address	
Notification Channels			+ CHANN
6 Items			QI
CHANNEL NAME	CREATION DATE	URL URL	
http test	02/05/2024	https://demo.com	
999	13/03/2024	https://qqq	
delete test	10/03/2024	http://notify.flolivedemo.link	
PPM-Integration	08/01/2024	http://10.210.103.59:8080/webhook/notifications	
SCE webhook server	28/11/2023	http://flo-sce-engine:8080/exec/pushTest	

To view the HTTP Push API Notification Channels Table

- 1. From the Navigation Bar, click **Notification Channels**. The Notification Channels table appears showing all Email Channels by default.
- 2. Click the **HTTP PUSH API CHANNELS** tab. The HTTP Push API Notification Channels table is displayed in the table:

A description of the HTTP Push API Channels is provided in this table.

Attribute	Description
Channel Name	The name you gave the Notification Channel when you created it
Creation Date	The date you created the channel
URL	The URL you defined as the target destination for this Notification Channel; each HTTP Notification Channel can have only one URL destination

11.8 Edit Notification Channels

To edit a Notification Channel, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the appropriate Notification Channel tab:
 - a. Email Notification Channel

- b. HTTP Push API Channel.
- 3. Click the **Actions** icon from the list of notifications displayed in the table.
- 4. Click **Edit** to display the Edit Notification dialog box.
- 5. Update the notification settings and click **Apply**.

11.9 Delete Notification Channel

To delete a Notification Channel, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the appropriate Notification Channel tab:
 - a. Email Notification Channel
 - b. HTTP Push API Channel.
- 3. Click the Actions icon from the list of notifications displayed in the table.
- 4. Click **Delete** to display the Delete Notification dialog box.
- 5. Click **Delete**to remove selected notification channel.

11.10 View Notification Logs

The Notification Logs provide a detailed history of all notifications sent by the CMP portal. This log allows you to track the success or failure of notifications, review the details of generated notifications, and identify any issues with notification delivery.

To view the Notification Log table, do these steps:

- 1. Select **Rules & Notifications | Notifications** on the sidebar menu to display the Rules screen.
- 2. Select the Notification Logs tab.
- 3. Select an appropriate time frame in the **Creation Date** field.
- 4. Select a log item from the table to display the **Log Details** dialog box.

A screen capture of the Notification Log table is shown here.

	A Notification Type 	B Notification Source	C Action Name	D Account Name	E ICCID Identifier	F Delivery Status	G Notification Timestamp	H Delivery Timestamp	Creation Date
Ξ¢	RULES & NOT FICATIONS > N	DTIFICATIONS							
§ Products	Notificatio	ns							
🖸 My Orders		NOTI	FICATION LOSS				NOTIFICATION	CHANNELS	
<u>and</u> Dashboard									
🔒 SIMs								Crea	tion Date +
SIMs Provisioning	Notification	Logs							
Batch Operations	512 Items								Q , Ⅲ
💱 Catalog 🗸 🗸	NOTIFICATION TYPE	NOTIFICATION SOURCE	ACTION NAME	ACCOUNT NAME		DELIVERY STATUS	NOTIFICATION TIMESTAMP	DELIVERY TIMESTAMP	NEXT RETRY TIME
음, My Sub-Accounts	EMAIL								
よ Providers		Rules and Alerts	First Event Account	floLive	99983999013013914727		29/10/2023 14:09:02	-	-
(1) Rates & Fees	EMAIL	Rules and Alerts	First Event Account	floLive	99983999013013914727	71 Success	29/10/2023 14:09:35	29/10/2023 14:09:39	-
🛱 Events	EMAIL	Rules and Alerts	First Event Account	floLive	99983999013014390389	90 Pending	30/10/2023 08:48:10		-
Reports	EMAIL	Rules and Alerts	First Event Account	floLive	99983999013013914727	71 Success	30/10/2023 09:51:04	30/10/2023 09:51:28	(2)
Rules &	EMAIL	Rules and Alerts	First Event Account	floLive	99983999013014390389	90 Pending	30/10/2023 10:49:16	7	
Rules	EMAIL	Rules and Alerts	First Event Account	floLive	99983999013014390389	90 Failure	30/10/2023 10:55:45	30/10/2023 10:55:45	-
Notifications	EMAIL	Rules and Alerts	First Event Account	ilai3110	8935712124160576265	Success	31/10/2023 14:44:15	31/10/2023 14:44:23	
)	EMAIL	Rules and Alerts	First Event Account	floLive	8935712124160576265	Success	31/10/2023 14:44:16	31/10/2023 14:44:23	~
Billing & Invoices	EMAIL	Rules and Alerts	First Event Account	ilai3110	8935712124160576265	Pending	31/10/2023 17:05:46	-	<i></i>
(C) Support	EMAIL	Rules and Alerts	First Event Account	ilai3110	8935712124160576265	Pending	31/10/2023 17:35:04		-

A description of the Notification Log table columns is provided in this table.

Column Name	Description
Notification Type	Specifies the method used to deliver the notification (e.g., Email, HTTP Push API).
Notification Source	Identifies the system or module that generated the notification (e.g., Rules and Notifications module).
Action Name	The name of the action or event that triggered the notification (as defined in the rule).
Account Name	The name of the account associated with the triggered event.
ICCID Identifier	The ICCID of the SIM card involved in the event.
Delivery Status	Indicates whether the notification was successfully delivered (e.g., Success, Failed, Pending).
Notification Timestamp	The exact time the notification was generated by the system.
Delivery Timestamp	The exact time the notification was delivered to its destination (email inbox or API endpoint).
Next Retry Time	The time of next notification attempt, if applicableThe date the notification record was created in the system's log.

12 Reports

The Reports module enables users to generate a wide range of reports generated by the SIM Connectivity Management Platform (CMP). These reports offer detailed insights into SIM usage, transactions, charges, and growth metrics, that help users to manage connectivity resources efficiently.

The Reports module has three separate sections.

Section	Description
View Reports	Provides users with immediate access to a wide range of different report types generated by the system.
Scheduled Reports	Provides users with the capability to automate the generation and delivery of reports at specified intervals without requiring manual intervention.
Reports History	Enables users to access and review previously generated reports. This feature serves as a centralized repository for historical data, facilitating analysis, auditing, and reference purposes.

A screen capture of the View Reports homepage is shown here.

	View Reports	Scheduled Reports	Reports History
Ξ<	REPORTS		
[s] Products	Reports	•	•
🕑 My Orders	VIEW REPORTS	SCHEDULED REPORTS	REPORTS HISTORY
<u>तन्त</u> Dashboard			
🔂 SIMs	View Reports		
SIMs Provisioning			
😂 Batch Operations	Report Type * Used SIMs	Enter a date range Today	0
🛐 Plans 🗸 🗸			
음, My Sub-Accounts	Accounts * FloLive	•	
ぷ Providers			
(··) Rates	Select Type	*	

12.1 Report Types

The View Reports tab enables users to generate various types of reports based on these selection criteria:

- o Reports Type
- o Account
- o SIM Identifier
- o Date Range

A screen capture of the View Reports homepage is shown here.

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		View R	leports	Schedule	d Reports	R	eports History
	≡<	REPORTS					
§ Products		Reports		(•
🛃 My Orders		VIEW REPO	DRTS	SCHEDU	JLED REPORTS		REPORTS HISTORY
<u>anl</u> Dashboard							
🔂 SIMs		View Reports					
SIMs Provisioning							
😂 Batch Operations		Report Type * Used SIMs	*	Enter a date range Today		0	
§় Plans	~					-	
路 My Sub-Accounts		Accounts * FIoLive	*				
メ Providers							
(+) Rates		Select Type	٣				

The View Reports tab enables user to generate these report types.

Report Name	Description
Used SIMs	Shows the number of connected SIMs and IMSIs per customer based on a set of selected filters and timeframe.
In-Use SIMs	Shows a list of connected SIMs and IMSIs per customer based on a set of selected filters and timeframe.
Charges DR Records	Contains details of all prepaid charges made by a sub-account for a specified timeframe.
Summary Report	Shows summarized customer charges and usages based on country, network, provider, and amount for each type of service.
Transaction DR Records	Contains details of all transactions including top-ups, debit, and credit events for a selected customer for a specified timeframe.
Usage DR Records	Displays detailed usage transactions of data and SMS per SIM and customer during a specified timeframe.
Usage Per Account	Displays the usage of data and SMS per account during a specified timeframe.
Usage Summary Per SIM	Displays summary information relating to usage of data and SMS per SIM for a specified timeframe.
Monthly Usage Growth	Compares the number of SIMs/IMSIs and their service (Data, SMS) usage volumes between two selected months.
Customer Summary Report	Contains a monthly summary breakdown of all direct sub-account charges and usages.
Account Products	Shows a list of 'recurring charges' for various products assigned to a selected account.
4G Registration without Data Session	Displays all SIMs that have been successfully registered to the network but failed (or did not open) a data session and as such are suspected as failed to connect SIMs.

The CMP uses the 1024 Unit Converter to convert data usage values. Thus, for example:

- 1 GB (gigabyte) is converted to 1024 MB (megabyte)
- 1 MB is converted to 1024 KB (kilobyte), and so on.

12.1.1 In-Use SIMs Report

The Used SIMs report displays the total number of active SIMs/IMSIs for the sub-account during a specified time period.

A screen capture of the Used SIMs report is shown here.

	Report Type Acc	counts Date Range	Export Execut
] Products	Reports		
+ ········	VIEW REPORTS	SCHEDULED REPORTS	REPORTS HISTORY
Dashboard			
SIMs	View Reports		
SIMs Provisioning		•	
Batch Operations	Report Type *	Enter a date range Last 12 Months	•
Plans 🗸	Used SIMS	Last 12 Months	
My Sub-Accounts	Accounts * FIoLive	•	
Providers			
Rates	Select Type	*	
Events			
Reports	Used SIMs Jun 10th 2023 - Jun 10th	th 2024	
Rules & Notifications 🗸	1.ltem		
Order SIMs		-	
Billing & Invoices	ACCOUNT	USED SIMS	USED IMSIIS
Settings	FloLive	471759	498156
			Rows per page: 50 💌 1-1 of 1 <
	SIM Identifier	Report Table	

To generate a Used SIMs report, do the steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. **Report Type**and select **Used SIMs** from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a SIM Identifier Type.
- 6. Select a Date Range option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days

- e. Month-to-date
- f. Custom
- 7. Click **Execute** to generate the report.
- 8. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

A description of the report parameters is provided in this table.

Attribute	Description
Account	The account holding the Active SIMs and IMSIs
Used SIMs	The total number of Used SIMs in the Account and the Account's sub- accounts
Used IMSIs	The total number of Used IMSIs in the Account and the Account's sub- accounts

12.1.2 Account Products Report

The Account Products Reports shows a list of 'recurring charges' for various products assigned to a selected account.

A screen capture of the In Accounts Product report is shown here.



A description of the applicable report fields is provided in this table.

Field Name	Description
Offer	A unique identifier for the Product.
Offer Name	The name of the Product associated with the account
Original Charge	The amount charged to the account on a regular basis (monthly, quarterly, etc.) for the product.

Field Name	Description
Original Currency	The currency used for charging the account.
Next Charge Date	The upcoming date when a charge will be made.
Charge Date	The specific date when a charge is made for an account.
Account ID	A unique identifier for the Account.
Account Name	The name of the account associated with the product charge.
Charge Type	Type can be an allowance or renewal

To generate an Account Products report, do these steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. **Report Type**and select **Account Products** from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a Date Range option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom
- 6. Click **Execute** to generate the report.
- 7. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

12.1.3 Charges DR Records Report

The Charges DR Records Report details all prepaid charges made by a selected sub-account during a specified time period.

A screen capture of the Charges DR Records report is shown here.

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	Report Type	Accounts	Da	te Range System Labels			Ex	port	Execute
S Products	Reports								
🗗 My Orders	VIEW REPOR	TS		SCHEDULED REPO	ORTS		REPORTS	HISTORY	
<u>과</u> 네 Dashboard									
🔂 SIMs	View Reports						ſ	EXPORT	• EXECUTE
SIMs Provisioning				•					
😂 Batch Operations	Report Type * Charges DR Records		*	Enter a date range Last 12 Months					
[s] Plans 🗸			-						
옶 My Sub-Accounts	Accounts * FloLive		*	System Labels automation_system_label_100069	9, automation_system"	•			
ぷ Providers				Labels	•				
(··) Rates	Select Type		*	00test, 0102_test_nerya, 0206_roo	ot, 0506_root, 0906_r *				
🛱 Events									
Reports	Charges DR Records	Jun 10th 2023 - Jun 10t	h 2024						
୍କ୍ରୌ Rules & Notifications 🗸	77603 Items								ш
몇 Order SIMs	SUBSCRIBER ID	ICCID	EID	OFFER	OFFER NAME	ORIGINAL CHARGE	ORIGINAL CURRENCY	STATUS	RECURRING TYPE
Billing & Invoices	SUBSCRIDER ID	loop	EIU	OPPER	UPPER NAME	URISINAL CHANGE	UNDINAL CURRENCT	STATUS	RECORDING THPE
ফ্টি Settings	fffbb96d-a81f-49f4-9cc6987def3a48e9	8935711550000117690	-	6d239d12-c7df-489c-8572-b8733ec8ef88	FloLive - default rate plan	0	GBP	OK	Monthly
	fff80d3c-f70e-4209-a351-0195811905d	8935711550000045701	-	6d239d12-c7df-489c-8572-b87334c8ef88	FloLive - default rate plan	0	GBP	ОК	Monthly
	fff7e15b-be86-49ff-a94b/5c79ae6eed0e	8935711550000096654	-	6d239d12-c7df-489c-8572-b8733ec8ef88	FloLive - default rate plan	0	GBP	ОК	Monthly
	fff33f8c-a52b-4fe9-8fb4-4106f34be4d7	8997219140000002919	-	6d239d12-c7df-489c-8572-b8733ec8ef88	FloLive - default rate plan	0	GBP	ОК	Monthly
	SIM Identifier			Report Tab	ole				

To generate a Charges DR Records report, do these steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. Report Typeand select Charges DR Records from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a **SIM Identifier Type** (optional).
- 6. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom
- 7. Select the appropriate **System Labels**(optional).
- 8. Select the appropriate **User Labels**(optional).
- 9. Click **Execute** to generate the report.

10. Click **Export** to download the report in .csv format.

To edit the report, modify the report filters and click **Execute** again.

A description of the report parameters is provided in this table.

Attribute	Description
Subscriber ID	The subscriber on whose SIM the transaction was performed
ICCID	The SIM ICCID the transaction was performed on
EID	The SIM EID (eUICC ID) the transaction was performed on
Offer	The offer ID number on which the charge is based
Offer Name	The offer (Billing Plan) name
Original Charge	The first charge amount on the SIM
Original Currency	The currency of the Original Charge
Status	The status of this charge, for example, OK
Recurring Type	How often the charge is repeated, for example, Daily, Weekly, etc.
Next Charge Date	The next date the charge will be applied
Charge Date	The date this charge was applied
Account ID	The account ID of the SIM on which the charge was applied
Account Name	The account name attached to the Account ID
Account Currency	The currency that the SIM account is managed in
Account Charge	The charge amount based on the Account Currency
Charge Type	The charge type, such as ALLOWANCE
Labels	Label(s) that you have attached to this SIM
System Label	System Label(s) that are attached to this SIM

12.1.4 Summary Report

The Summary Report is generated in MS Excel format and contains detailed information relating to a specific account over a defined period of time. The Summary report can be generated for a parent account and for each sub-account down to one level.

A screen capture of the Summary Report is shown here.

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	Report Type Ac	count	Date Range	Export
S] Products	eports			
My Orders	NEW REPORTS	SCHEDULED REPO	DRTS REP	DRTS HISTORY
<u>and</u> Dashboard				•
fi SIMs	View Reports			
SIMs Provisioning				
Batch Operations	Report Type * Summary Report	Enter a date range Last 12 Months	• •	
§় Plans 🗸				
路 My Sub-Accounts	Account FloLive	Show Summarized Offers		
ぷ Providers				
((·)) Rates	Used SIMs Jun 9th 2023 - Jun 9th 2024	Ī		
🛱 Events				
Reports	1 item			
📢 Rules & Notifications 🗸 🗸	ACCOUNT	USED SIMS	USED IMSIS	
妵 Order SIMs	FloLive	471749	498145	
🛱 Billing & Invoices			Rows per page:	50 🕶 1-1of1 < >
稔 Settings				
	Summary Data	Summar	y Options	

A description of the default summary report is provided in the following tables.

Customer Information

Attribute	Description
Customer	The customer that you are generating the Summary Report for
Address	The customer address
Report Period	The report period in full 24-hour period in the format: yyyy-mm-dd 00:00 to yyyy-mm-dd 23:59. The report is produced over full days only.
Currency	The currency such as USD or GBP
Contact	The customer contact.

Usage Data

Attribute	Description
Country	The country for the specific aggregated usage (Data or SMS)
Network	The network (PLMN code) for the specific aggregated usage
Provider	The provider of the services being used
Service	The service charged for Range: Data, SMS
Usage (MB/SMS)	The volume of the service usage: For Data service, the volume is in MB. For SMS service, the volume is in number of messages
Unit Price	The price of each unit (MB or SMS) being used
Amount	The total charge in the currency denoted [(Usage)(Unit Price)]
Currency	The charge currency

Attribute	Description
SMS Data Total	Usage column shows the sum of service usage in the invoice period. Amount column shows the total charge for service in the invoice period
Usage Total	Amount column: The total charge for all services over the invoice period

Transactions

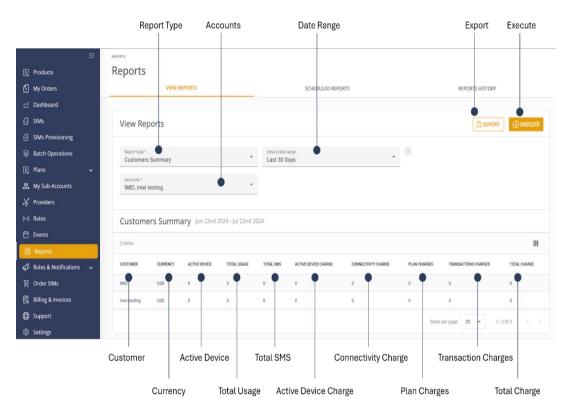
Attribute	Description
Country	The country for the specific aggregated usage (Data or SMS)
Network	The network (PLMN code) for the specific aggregated usage
Provider	The provider of the services being used
Service	The service charged for. Range: Data, SMS
Usage (MB/SMS)	The volume of the service usage. For Data service, the volume is in MB. For SMS service, the volume is in number of messages
Unit Price	The price of each unit (MB or SMS) being used
Amount	The total charge in the currency denoted [(Usage)(Unit Price)]
Currency	The charge currency
Data Total	Usage column shows the sum of service usage in the invoice period. Amount column shows the total charge for service in the invoice period
Usage Total	Amount column: The total charge for all services over the invoice period

Plan Charges: Summarized Offers

Attribute	Description						
Plan name	Lists the billing plans by which the devices are being charged						
Quantity	The quantity of this plan charged						
Amount	The total charged for all transactions under this plan						
Currency	The charge currency						
Plan charges total	The total amount being charged on these plans						
Total Charge to Customer	 The Amount column provides the sum of the charges in the denoted currency from: Usage table Amount column Plan charges Amount column Transactions: Amount column 						

12.1.5 Customer Summary Report

Contains a summary breakdown of all direct sub-account charges and usages.



A screen capture of the Customer Summary report is shown here.

To generate a Customer Summary report, do the steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. Report Typeand select Customer Summary from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a Date Range option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom

- 6. Click **Execute** to generate the report.
- 7. Click **Export** to download the report in .csv format.

NOTE: To edit the report, modify the report filters and click **Execute** again.

A description of the report parameters is provided in this table.

Field	Description
Customer Name	The name of the sub-account customer.
Currency	The account's currency.
Active Device	The number of active devices (IMSI or SIM) according to account settings.
Total Usage	The total data usage for the account.
Total SMS	The total SMS MO usage for the account.
Active Device Charge	Calculated as the number of devices multiplied by the device cost, according to account settings.
Connectivity Charge	The total charge for account connectivity, including data and SMS costs.
Plan Charges	Charges for the account plans.
Transactions Charges	Charges for account TDR transactions.
Total Charge	The sum of device charges, connectivity charges, plan charges, and transaction charges.

12.1.6 Transaction DR Records Report

The Transaction DR report details all the transactions including top-up, debit and credit events for a selected customer during a specified time period. A screen capture of the Transaction DR report is shown here.

	Report Type Accou	nts Date Range System Labels	User Labels	Export Execute
=<	Reports			
🛃 My Orders	VIEW REPORTS	SCHEDULED REPORTS		REPORTS HISTORY
<u>aul</u> Dashboard				
🔂 SIMs	View Reports			
SIMs Provisioning				
Batch Operations	Report Type * Transaction DR Records	Enter a date range	•	
§় Plans 🗸 🗸				
옶, My Sub-Accounts	Accounts * FloLive	 System Labels 	-	
炭 Providers		Labels	•	
(+) Rates	Select Type	 O0test, 0102_test_nerya, 0206_root, 0506 	5_root, 0906_r *	
🛱 Events		Transaction Type		
Reports		Platform fee per IMSI, Surcharge fee, eSI	M fee, eSIM s	
୍ଦ୍ୟା Rules & Notifications 🗸		Reason		
)딛 Order SIMs			Ť	
🗟 Billing & Invoices		Event Date		
钧 Settings				
	Transaction DR Records Jun 101	th 2023 - Jun 10th 2024		
	SIM Identifier	Transaction Type Reason	Event Date	

To generate a Transaction DR report, do these steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. **Report Type**and select **Transactions DR Records** from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a SIM Identifier Type.
- 6. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom
- 7. Select the appropriate **System Labels**(optional).
- 8. Select the appropriate **User Labels**(optional).
- 9. Select the **Transaction Type** from the list of options.

- a. Platform Fee Per IMSI
- b. Surcharge Fee
- c. eSIM Fee
- d. eSIm Swap Fee
- e. Manual Adjustment
- f. Internal Balance Transfer
- 10. Select the **Reason** from the list of options.
 - a. No Reason
 - b. Network Activity
 - c. Discount
 - d. Rates Adjustment
 - e. Refund
 - f. Credit
 - g. Shipment Cost
 - h. Order Cost
 - i. Debt
 - j. Select an Event Date.
- 11. Select an **Event Date.**
- 12. Click **Execute** to generate the report.
- 13. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

A description of the report parameters is provided in this table.

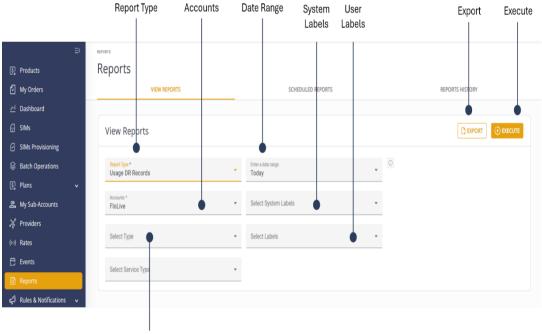
Attribute	Description
ICCID/EID	The SIM ICCID or EID the transaction was performed on
Transaction ID	Automatically generated ID for this transaction
Туре	The type of top-up performed on this transaction

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Attribute	Description
Operation	The action performed on this transaction (Credit or Debit)
Amount	The monetary amount of this transaction
Currency	The currency of the monetary amount
Subscriber ID	The subscriber on whose SIM the transaction was performed
Transaction Date	The date of the transaction
Account ID	The account ID of the SIM on which the transaction was performed
Account Name	The account name attached to the Account ID
Labels	Label(s) that you have attached to this SIM
System Labels	System Label(s) that are attached to this SIM

12.1.7 Usage DR Records Report

The Usage DR Records Report details the SMS and data usage for a selected sub-account during a specified time period.



A screen capture of the Charges DR Records report is shown here.

SIM Identifier

To generate a Usage DR Records report, do the steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. Report Type and select Usage DR Records from the list.
- 4. Select one or more **Accounts** to include in the report.

- 5. Select a SIM Identifier Type.
- 6. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom
- 7. Select the appropriate **System Labels** (optional).
- 8. Select the appropriate **User Labels** (optional).
- 9. Click **Execute** to generate the report.
- 10. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

A description of t	he report p	arameters is	provided in	this table.
A description of t	πετεροιτρ	arameters is	provided in	this table.

Attribute	Description					
Account	The account containing the SIM that generated this CDR/DR					
Start Time End Time	The start time and end time of the service usage invoked and that generated this CDR/DR. Format: yyyy-mm-dd HH:MM:SS (24-hour format)					
ICCID/IMSI/MSISDN/EI D	The SIM ID					
Service	The service used. Range: SMS, Data					
Quantity	The usage volume, without the unit of measurement					
Quantity Unit	 The unit of measurement of the Quantity, for example: SMS for an SMS message MB for data usage volume 					
Charge/Charge Unit	Charge amount/Currency					
Country	Country where the service was used					
Network	The network in which the service was used					
Session ID	An ID that can be used to search for this service session					

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Attribute	Description				
Plan Name	e name of the Billing Plan attached to this Account				
	The Billing Plan type:				
Plan Type	 Regular: Rate, Money or Usage 				
	o Pool				
Labels	Label(s) that you have attached to this SIM				
System Labels	System Label(s) that are attached to this SIM				
UE IP V4	The IP address allocated to the device				
APN	APN used by the device				

12.1.8 Usage Summary Per SIM

The Usage Summary Per SIM Report details the SMS and data usage for a selected SIM during a specified time period. This type of report offers both Basic and Detailed view modes.

NOTE: This report type has 2 variations including Basic and Detailed view modes.

	Report Type	Accounts	Dat Ran	0,00					Export	Execu
	REPORTS				1					
S Products	Reports									
My Orders	VIEW REPOR	TS		SCHEDULED	REPORTS			REPOR	TS HISTORY	
<u>Inl</u> Dashboard										
🛃 SIMs	View Reports									
 SIMs Provisioning 										
Batch Operations	Report Type *		Enter	ne range			0			
<u>ड</u> ी Plans 🗸	obage sommary per one		Today							
음, My Sub-Accounts	Accounts * FIoLive	•	✓ Select	System Labels		-				
袋 Providers										
(+) Rates	Select Type	•	▼ Select	Labels	•	•				
🛱 Events	Select Service Type		Select ba	sic/detailed report						
Reports	Select Service Type		Basic							
چا. Rules & Notifications 🗸										
뎢 Order SIMs	Usage summary per	5IM Jun 18th 2024	- Jun 18th 2024							
Billing & Invoices	35 Items									ш
భు Settings	ACCOUNT START TIME	END TIME IC	CID	EID	тот	AL SESSION D	ATA QUANTITY	SMS QUANTITY	LABELS	SYSTEM LABELS
	FloLive 2024-04-18 14:48:49	2024-06-18 14:49:10 89	357118703852474106	-	2	1	MB	1		
	FloLive 2024-04-18 14:02:04	2024-06-18 14:05:56 89	857113323720785471	8947156240762521704	5286081411025 3	2	MB	1		automation_sys

A screen capture of the Usage Summary Per SIM report is shown here.

To generate a Usage Summary Per SIM report, do the steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. **Report Type**and select **Usage Summary Per SIM** from the list.

- 4. Select one or more **Accounts** to include in the report.
- 5. Select a SIM Identifier Type.
- 6. Select a Data or SMS **Service Type**.
- 7. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days
 - d. Last 30 Days
 - e. Month-to-date
 - f. Custom
- 8. Select the appropriate **System Labels** (optional).
- 9. Select the appropriate **User Labels** (optional).
- 10. Click **Execute** to generate the report.
- 11. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

A description of the report parameters is provided in this table.

Attribute	Description
Account	The account containing the SIM that generated this CDR/DR
Start Time End Time	The start time and end time of the service usage invoked and that generated this CDR/DRFormat: yyyy-mm-dd HH:MM:SS (24-hour format)
ICCID/IMSI/MSISD N	The SIM ID
Country	Country where the service was used
Provider	The IMSI provider of SIM services
Network	The network in which the service was used
Total Session	The total number of grouped CDR/DR generated
Data Quantity	The volume of data usage (MB) by this SIM
SMS Quantity	The number of SMS messages sent by this SIM
Plan Name	The name of the Billing Plan attached to this SIM
Plan Type	The Billing Plan type, Regular or Pool
Labels	Label(s) that you have attached to this SIM

12.1.9 Usage Per Account

The Usage Per Account report displays the usage of data and SMS per account during a specified time period. The report includes breakdown per day, provider, country, network and service type.

A screen capture of the Usage Per Account report is shown here.

	Repo	rt Type Accou	ints	Date	Range	Ser\ Tyj					Exp 	ort	Execute
드 § Products	Reports												
My Orders		VIEW REPORTS				SCHEDULED R	EPORTS				REPORTS HISTO	DRY	
<u>and</u> Dashboard											•		
SIMs	View Rep	ports									D, Đ	(PORT 0	EXECUTE
SIMs Provisioning		• 1			•								
😂 Batch Operations	Report Type * Usage Per	Account			r a date range at 12 Months				0				
[§] Plans ✓		•											
운 My Sub-Accounts	Accounts * FloLive			* Dat	ice Type a				•				
メ Providers				_									
(+) Rates	Select Type	•		*									
🖯 Events													
Reports	Usage Pe	er Account Jun 10th 2023	- Jun 10th 2	024	•								
୍କମା Rules & Notifications 🗸	122 Items												Ш
뎢 Order SIMs													
Billing & Invoices	ACCOUNT	ED	DATE	PROVIDER	COUNTRY	NETWORK	NUM OF IMSIS	SERVICE	QUANTITY	QUANTITY UNIT	CHARGE	CHARGE UNIT	PLAN NAME
愆 Settings	FloLive	89471568407625387082299449726715	2024-06-10	EU 1	Latvia	LVALM	1	Data	1	MB	0.0049493	GBP	Subscriber F
	FloLive	-	2024-06-10	EU 1	Israel	ISRCL	1	Data	3	MB	0.20914975	GBP	Subscriber F
	FloLive	89471568407625973690497897048544	2024-06-10	EU 1	Israel	ISRCL	1	Data	4	MB	0.27886633	GBP	Subscriber F
	SI	M Identifier		Repo	ort Data								

To generate a Usage Per Account report, do these steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. **Report Type**and select **Usage Per Account** from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a **SIM Identifier Type** (optional).
- 6. Select a **Date Range** option:
 - a. Today
 - b. Yesterday
 - c. Last 7 Days

- d. Last 30 Days
- e. Month-to-date
- f. Custom
- 7. Select the appropriate **Service Type** (optional).
- 8. Click **Execute** to generate the report.
- 9. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

Attribute	Description
Account	The account in which the service usage was invoked
EID	The EID (eUICC SIM ID) if the usage was recorded on an eUICC SIM
Date	The date the service usage was invoked
Provider	The provider who supplied the service
Country	Country where the service was used
Network	The network in which the service was used
Num of IMSIs	The number of SIMs included in this daily report for this account
Service	The service used Range: SMS, Data
Quantity	The usage volume, without the unit of measurement
Quantity Unit	The unit of measurement of the Quantity, for example: SMS for an SMS message MB for data usage volume
Charge/Charge Unit	Charge Amount/Currency
Plan Name/Plan Type	The Billing Plan Name and Type attached to this account
Parent name	The parent account of this account

12.1.10 Monthly Usage Growth

The Monthly Usage Growth report compares usage between two different months.

A screen capture of the Monthly Usage Growth report is shown here.

	Report	Туре	Month A	Account	Month B				Execu
	REPORTS								
Products	Reports								
My Orders		VIEW REPORTS			SCHEDULED REF	PORTS		REPORTS HIST	ORY
Dashboard									•
SIMs	View Repo	orts						C	XPORT DE EXECUT
SIMs Provisioning				•					
Batch Operations	Report Type *			* FloLive			•		
Plans 🗸	Monthly usag	le growin	-	FIOLIVE					
My Sub-Accounts	Month A* May 2024		•	 Month B* February 20 	24		*		
Providers									
Rates	Monthlyu	sage growth	May 2024 Month A	- February 2024 Mont	n B				
Events	montany a	Suge Stower							
Reports	1 Item								I
Rules & Notifications 🗸	CUSTOMER	USED IMSIS Month A	USED IMSIS Month B	USED SIMS Month A	USED SIMS Month B	DATA USAGE Month A	DATA USAGE Month B	SMS USAGE Month A	SMS USAGE Month B
Order SIMs	FloLive	462474	0	444083	0	26195.03 MB	0 MB	107	0
Billing & Invoices							Doues	s per page: 25 👻	1-1of1 <
Settings							ROWS	o pei page. 20 V	1-1011

To generate a Monthly Usage Growth report, do these steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the View Reports tab.
- 3. Report Typeand select Monthly Usage Growth from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Month A and select a start date.
- 6. **Month B** and select an end date.
- 7. Click **Execute** to generate the report.
- 8. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.

NOTE: When you select the month, the report displays month-to-date data, that is, from the first day of the month to the current date (the day you generate the report).

A description of the report parameters is provided in this table.

Attribute	Description
Customer	The account holding the Active SIMs and IMSIs
Used IMSIs Month A	The total number of Used IMSIs in the Customer Account in Month A (the end comparison month)
Used IMSIs Month B	The total number of Used IMSIs in the Customer Account in Month B (the start comparison month)
Used SIMs Month A	The total number of Used SIMs in the Customer Account in Month A
Used SIMs Month B	The total number of Used SIMs in the Customer Account in Month B
Data Usage Month A	The total Data usage volume used by the Customer Account in Month A
Data Usage Month B	The total Data usage volume used by the Customer Account in Month B
SMS Usage Month A	The total SMS volume used by the Customer Account in Month A
SMS Usage Month B	The total SMS volume used by the Customer Account in Month B

12.2 First Time Activated

The First Time Activated SIMs report provides customers with a list of SIMs activated for the first time during a specified reporting period. The report helps customers identify newly activated SIMs to facilitate internal business actions such as invoicing and notifications.

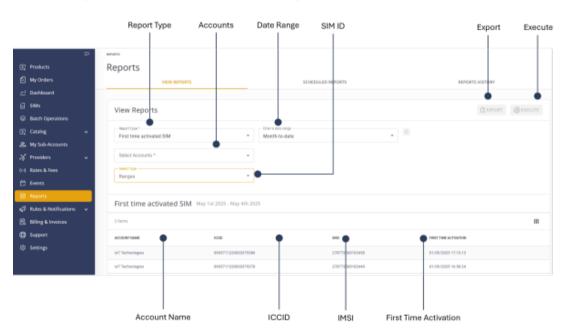
NOTE: Only SIMs activated for the first time within the defined period are included in the report. For example, a SIM activated on 10/1/24 will appear in a report covering 1-31/1/24 but not in 1-31/2/24.

To generate a First Time Activated SIMs report, do these steps:

- 1. Select **Reports** from the sidebar menu.
- 2. Select the View Reports tab.
- 3. Go to the **Report Type** field and select **First Time Activated Reports** from the list.
- 4. Select one or more **Accounts** to include in the report.
- 5. Select a **SIM Identifier Type** (optional).
- 6. Select a Date Range option:
 - a. Today
 - b. Yesterday

- c. Last 7 Days
- d. Last 30 Days
- e. Month-to-date
- f. Custom
- 7. Select the appropriate **Service Type** (optional).
- 8. Click **Execute** to generate the report.
- 9. Click **Export** to download the report in .csv format.

TIP: To edit the report, modify the report filters and click **Execute** again.



A screen capture of the First Time Activated Reports is shown here.

A description of the report parameters is provided in this table.

Attribute	Description
Account	The account in which the service usage was invoked
Date	The date the service usage was invoked
ICCID/IMSI	The SIM ID

12.3 Scheduled Reports

Account users can create automated reports to run periodically on the system. Each scheduled report requires a Report Name, a Report Type, and Scheduling setting.

A screen capture of the View Reports homepage is shown here.

	Report Name	Report Type	Create New
Ξ¢	REPORTS		
§ Products	Reports		
🕄 My Orders	VIEW REPORTS	SCHEDULED REPORTS	REPORTS HISTORY
<u>त्व</u> ्य Dashboard			•
🔂 SIMs	Scheduled Reports		+ SCHEDULE
SIMs Provisioning	17 Scheduled Reports		Q = ¢
Batch Operations			ς - φ
[§] Plans ∽	REPORT NAME	REPORT TYPE SCHEDULING	SETTINGS
음, My Sub-Accounts	0206 weekly summary	Summary Report Frequency	Veekly, Execution day Mon, Period Mon - Sun (of previous week)
メ Providers	weekly flo and 0206 usage	Usage Per Account Frequency	Neekly, Execution day Mon, Period Mon - Sun (of previous week)
(1-1) Rates	in use sims example	In-use SIMs list Frequency	Neekly, Execution day Fri, Period Fri - Thu (of previous week)
🖯 Events	2222	Used SIMs Frequency	Neekly, Execution day Tue, Period Wed - Tue (of previous week)
Reports	daily flo and 0206 usage	Usage Per Account Frequency I	aiy :
୍କ୍ ି Rules & Notifications 🗸	0206 summary	Summary Report Frequency I	laily :
臣 Order SIMs	wwwww	Charges DR Records Frequency I	haily
R Billing & Invoices	2 accounts usage	Usage Per Account Frequency I	laiv :

12.3.1 Scheduling Frequency

A definition of the scheduling frequency concepts is provided in this table.

Report Type	Details
Daily Reports	Generated every day at a specified time. These reports provide a daily overview of data and ensure up-to-date information is available on a daily basis.
	These reports summarize data on a weekly basis, offering insights over a 7-day period.
Weekly Reports	• Execution Day: The specific day of the week (e.g., Monday, Wednesday) on which the report is generated.
	• Start Day Period: The initial day from which the weekly reporting period begins (e.g., the first Monday of the reporting

Report Type	Details
	period). These reports summarize data on a weekly basis, offering insights over a 7-day period.
	These reports aggregate data on a monthly basis, providing a comprehensive view over a 30-day period.
	• Execution Date: The specific day of the month (e.g., 5th, 15th)
Monthly Reports	on which the report is generated.
	• Start Date Period: The initial date from which the monthly
	reporting period begins (e.g., the 1st of the month). These reports
	aggregate data on a monthly basis, providing a comprehensive
	view over a 30-day period.

12.3.2 Create Scheduled Report

To create a scheduled report, do these steps:

- 1. Select **Reports** from the sidebar Menu.
- 2. Select the **Scheduled Reports** tab and click **+Schedule.**
- 3. Type a **Report Name**.
- 4. Select a **Report Type**.
- 5. Enter the required information for the selected Report Type.
- 6. Specify the Scheduling Settings:
 - $\,\circ\,$ Daily: Report is generated for the selected day.
 - $\,\circ\,$ Weekly: Select a Start Day to specify the report period and an Execution Day on which the report is generated.
 - Monthly: Select a Start date to specify the report period and an Execution Date on which the report is generated.
- 7. Set the **Frequency** and **Execution Date** for weekly and Monthly periods.
- 8. Click Apply to set Scheduling Settings
- 9. Click **Create** to generate a scheduled report. The report is added to the Scheduled Reports table.
- 10. Click **Reports History**to view all generated automated reports.

12.4 Reports History

The Reports History module serves as a central archive for all users automated reports generated by the system. The Reports History module enables users to access, search filter, and export historical report data. Each report is listed as a table entry containing detailed information as well as options for users to delete or export the report data.

A screen capture of the Reports History page is shown here.

			Repor	t Table		Searc Repo	ch Filte ort Pan	
§] Products	Reports							
My Orders		VIEW REP	ORTS	SCHEDULED REPORTS	RE	PORTS HISTORY		
<u>•·I</u> Dashboard								
] SIMs	Reports Hi	story						
SIMs Provisioning	192 Reports						Q =	0
Batch Operations	The reports					•	ς.	·•
🖞 Plans 🗸 🗸	CREATION DATE	TIME (UTC)	REPORT NAME		REPORT TYPE	STATUS		
My Sub-Accounts	10.06.2024	10:00	29 daily - Usage sum	nary per SIM detailed - filter by ICCID 999839990130148611822	Usage summary per SIM detailed	Success	Export	Ū
Providers	10.06.2024	06:00	29 daily transaction -	filter by SL automation_system_label_138251	Transaction DR Records	Success	Export	Ū
) Rates	10.06.2024	06:00	29 daily In-use SIMs I	st - filter by IMSI (222010228911102)	In-use SIMs list	Success	Export	0
Events	10.06.2024	06:00	29 daily charges - filte	r by user_label 29_2	Charges DR Records	Success	Export	Ĩ
Reports	10.06.2024	06:00	29 daily used sim - fil	ter by ICCID (999839990130148611822)	Used SIMs	Success	Export	Û
Rules & Notifications 🗸	10.06.2024	06:00	29 daily Usage summ	ary per SIM basic - filter by ICCID 999839990130148611822	Usage summary per SIM basic	Success	Export	Ū
Order SIMs	10.06.2024	06:00	29 daily usage - filter	by service type - sms	Usage Per Account	Success	Export	Ū
Billing & Invoices	10.06.2024	12:00	2222		Used SIMs	Success	Export	Ū
Settings	10.06.2024	12:00	0206 weekly summar		Summary Report	Success	Export	Ē

12.4.1 Filter Reports

To filter the reports table, do these steps:

- 1. Select **Reports** from the sidebar menu.
- 2. Select the **Reports History** tab to display a list of reports.
- 3. Click the **Filter** icon to display the filter options.
- 4. Select a Creation Date.
- 5. Select a Report Type.
- 6. Select the report **Status**.
- 7. Click **Apply** to display the results in the Report History table.

12.4.2 Search Report

To search for a report, do these steps:

- 1. Select **Reports** from the sidebar menu.
- 2. Select the **Reports History** tab to display a list of reports.

Export

Report

Delete

Report

- 3. Click the **Search** icon to display the search box.
- 4. Type a Report Name and click the **Refresh** icon to display the results in the reports table.

12.4.3 Export Report

To export a report, do these steps:

- 1. Select **Reports** from the sidebar menu.
- 2. Select the **Reports History** tab to display a list of reports.
- 3. Navigate to a report listed in the table and click Export.

TIP: The report data is exported to a csv and located in the Downloads folder on your computer.

12.4.4 Delete Report

To delete a report, do these steps:

- 1. Select **Reports** from the sidebar menu.
- 2. Select the **Reports History** tab to display a list of reports.
- 3. Navigate to a report listed in the table and click the **Delete** icon.
- 4. Click **Yes** to confirm deletion of the selected report.

IMPORTANT: The platform automatically deletes old reports from the system. It is strongly recommended that you regularly export and locally archive all of the required reports to your local archive (each month).

12.5 Data Retention Policy

The data retention policy is as follows:

- Available Data: Six months after being recorded, data is archived and requires a special request from Platform Customer Support to be retrieved.
- Archived Data: 24 months after being recorded, data is deleted permanently from the archive and can no longer be retrieved.

12.6 Data-Retention Categories

There are three categories of data retention:

- **Available Data (Online Data)**: Historical data that is available and can be retrieved and viewed directly from the Portal and Public API interfaces.
- Archived Data (Offline Data): Historical data that is not available from the Portal and Public API interfaces; this data can be retrieved by a formal request to the platform Customer Support team.
- Deleted Data: Data that has reached its retrieval expiration date and has therefore been deleted permanently from the CMP databases and can no longer be retrieved.

12.7 Data Archiving

The data-retention policy is applicable for all Detail Records (DRs) and for the data used to create the reports generated by the system.

12.8 Recommendations for Retaining Data

It is strongly recommended that you regularly export and locally archive all of the required reports of your accounts and sub-account^{***}'s. It is recommended that perform this activity on a monthly basis.

13 Providers Module

Use the Providers module to assign (IMSI) providers to sub-accounts (customers) or to detach providers from a sub-account.

NOTE: You need Admin permissions to access the Provider module features.

13.1 Guidelines

These guidelines explain how the Providers module works.

- The Parent account of a target sub-account owns and manages all available providers.
- Allocation of all providers is at the discretion of the Parent account. The Parent account can allocate any or all providers to each one of its sub-accounts.
- Each account can allocate only those providers allocated to it by its Parent account to its child accounts.
- When a new provider is added to the system, it is not automatically added to existing sub-accounts.
- When a new provider is added, you need to allocate it to one or more existing sub-accounts (refer to "Allocate Providers to Sub-Accounts" on page 268).
- A newly created sub-account will, by default, be allocated all its Parent account's available providers.

IMPORTANT: A provider that is allocated to a sub-account cannot be de-allocated from that sub-account by its Parent account until the sub-account de-allocates that provider from its sub-accounts.

13.2 Auto-Assignment

The auto-assignment feature is enabled by default. When a new sub-account is created at any level (Parent, sub-account level 1, child accounts level 2 or below), the creator's allocated providers are automatically assigned to it. When the Parent account creates a new sub-account, its providers are automatically allocated to the new account.

13.3 Self Upload of Buy Rates

The Self-Upload feature allows sub-accounts to upload their own Buy Rates for a specific provider.

13.3.1 Default State

By default, this feature is turned off and must be activated by the Parent account.

- When activated: Sub-accounts (Level 2) associated with the provider can upload their own Buy Rates.
- When not activated: Sub-accounts can only view Buy Rates provided by their Parent account (Level 1) and cannot upload their own rates. This is further explained under Parent Account Rates (Buy Rates).

13.3.2 Guidelines:

- \circ $\;$ The Self-Upload feature is available only to authorized users.
- Only a Parent account can activate this feature for its sub-accounts.
- The feature is restricted to second-level sub-accounts (Level 2). Parent accounts (Level 1) cannot use this feature for themselves or for third-level sub-accounts.

13.4 Providers Page

The Providers page opens to the **My Providers** tab, which contains a list of providers available to the account you are now logged into. If you are the Parent account, then you own all providers and can allocate all or any of them to your sub-accounts (customers). The following figure shows an example Parent Account Providers page opened to the **My Providers** tab.

MY PROVIDERS	SUB-ACCOUNT PROVIDERS		
My Providers			
12 Providens			
PROVIDER	ALLOW SELF-UPLOAD		
tu 3			
India 1			
05.2			
EU 1			
US 1			
Brazil 1			
BJ 2			
APAC 1	-0		
SA.1			
LATAM 1			

Providers Module Initial Page: Parent Account

Attribute	Description
My Providers Table	Lists all providers available to the current account and that can be allocated to this account's sub-accounts.

Attribute	Description
Provider (Column)	Lists all providers available to this account and that can be allocated to sub-accounts using the functionality of the Sub-Account Providers tab (see "Allocate Providers to Sub-Accounts" on page 268)
Allow Self- Upload	This toggle is not applicable to a Parent account and the On setting cannot be changed in the My Providers tab, but only in the Sub-Account Providers tab described below.

Sub-Account Providers Tab

The Sub-Account Providers tab provides the functionality that allows the current account (the account that you are logged into) to allocate providers to its sub-accounts. The following figure shows the Sub-Account Providers tab of the Parent Account with a selected sub-account.

VOERA	2.2		
rov	iders		
MY PROVIDERS		SUB-ACCOUNT PROVIDERS	
Sub-	Account Service Providers		
Search Mat17	a-Announ Cil	Measure search devices for the sub-secour from the top before	
0-126	Yovidets selected		
	PROVIDE	ATTOR BRUNCHO -	
	Dredi 1	(A)	
	EV 1		
	Provider H		
	Afres 1		
	APRD 1		
previden L	5 EV3	2	
	60.3		
	inta't	3	

Providers Page of Parent Account, Sub-Account Providers Tab—Provider List: Example

Attribute	Description
My Providers Table	Lists all providers available to the current account and that can be allocated to this account's sub-accounts.

Attribute	Description
Select Sub- Account Field	Select the sub-account that you are allocating Providers to.
Provider (Column)	Lists all providers available to this account and that can be allocated to the selected sub-account (in the Select Sub-Account field); select (check box) of all providers you want to allocate ("Allocate Providers to Sub- Accounts" on page 268)
Allow Self- Upload	When activated, this option allows a sub-account (of the Parent account) with an allocated Provider to upload the Buy Rates for that provider (Self-Upload) Default: turned off This toggle is reserved for second-level sub-accounts (sub-accounts of the Parent account) and is available only to authorized sub-accounts (such as MNOs) ("Self-Upload" on page 272)

To open the Providers page of the Parent account:

- 1. Log into the Parent account.
- 2. From the Navigation pane, click **Providers**.

The Providers page of the Parent Account opens to the **My Providers** tab, which shows all available providers in the system, all or any of which the Parent Account can allocate to its sub-accounts.

Notice that **Allow Self-Upload** is enabled and grayed out for all providers in the Parent account.

Providers

MY PROVIDERS	SUB-ACCOUNT PROVIDERS
My Providers	
12 Providers	
PROVIDER	ALLOW SELF-UPLOAD
10 3	
India 1	
US-2	
BJ 1	
US 1	
Brazili 1	
EU 2	
APAC 1	
SA 1	
LATAM 1	

Providers Page of Parent Account, My Providers Tab: Example

3. Click the Sub-Account Providers tab.

The **Sub-Account Providers** tab opens to a blank table. It is used by the Parent account to allocate Providers to its sub-accounts. When you select a sub-account, all the providers that the Parent account has to allocate appear.

PROVIDERS	
MY PROVIDERS	SUB-ACCOUNT PROVIDERS
Sub-Account Service Providers	
Select Sub-Account	•
(i) Please Select a sub-account.	

Providers Page of Parent Account, Sub-Account Providers Tab—Empty: Example

rovi	iders	
	MY PROVIDERS	SUB-ACCOUNT PROVIDERS
Sub-/	Account Service Providers	
searcha Mat170	areaset B	Press sense provides for the sub-account from the for below
0-12P	tovideta selected	
	PROVIDE	ALLER BUT BY AN ALL
	Dredi 1	1.2
	EV 1	
	Pruvider H	3
	Area 1	
	APRE 1	
providen LLF	- EV.2	
	£0.3	
D	locat.	

Providers Page of Parent Account, Sub-Account Providers Tab—Provider List: Example

Providers Page Operations

This topic describes how to open the Providers page and access its functionality; it uses the Parent account Providers page as an example.

For allocating providers and see how this allocation is integrated into the Connectivity Rates module, "Allocate Providers to Sub-Accounts" on page 268 and "Integration of Allocated Providers into the Connectivity Rates Module" on page 270.

For de-allocating a provider, "Allocate Providers to Sub-Accounts" on page 268.

For the Self-Upload feature, "Self-Upload" on page 272.

To access Providers-Page functionality (using Parent account example):

- 1. Assume you are logged in as the Parent account.
- 2. From the Navigation pane, click **Providers**.

The Providers page of the Parent Account opens to the **My Providers** tab, which shows all available providers in the system, all or any of which the Parent Account can allocate to its sub-accounts.

Notice that **Allow Self-Upload** is enabled and grayed out for all providers in the Parent account.

Providers

MY PROVIDERS	SUB-ACCOUNT PROVIDERS	
My Providers		
12 Providers		
PROVIDER	ALLOW SELF-UPLOAD	
EU 3		
India 1		
05.2		
EV 1		
US 1		
Brazil 1		
Bi 2		
AP4C 1		
SA 1		
LATAM 1		

Providers Page of Parent Account, My Providers Tab: Example

3. Click the Sub-Account Providers tab.

The **Sub-Account Providers** tab opens to a blank table. It is used by the Parent account to allocate Providers to its sub-accounts. When you select a sub-account, all the providers that the Parent account has to allocate appear.

MY PROVIDERS	SUB-ACCOUNT PROVIDERS
-Account Service Providers	
ot Sul-Account	*
nt Sub-Account	

Providers Page of Parent Account, Sub-Account Providers Tab—Empty: Example

ADVORB1		
Provid	ders	
	MY PROVIDERS	SUB ACCOUNT PROVIDERS
Sub-A	ccount Service Providers	
salar fan i Mill 1708		Presses senset desense providers for the sub-secour from the for before
0-12 Pm	where selected	
	PROVDER	ALLOW BRUT BRUDD
	Dredi 1	1.2
D	EU 1	(A)
	Provider H	
	Area 1	
	APRE 1	
provident TUP	EV.3	
	603	2 C
	Inex 1	

Providers Page of Parent Account, Sub-Account Providers Tab—Provider List: Example

13.5 Allocate Providers to Sub-Accounts

Guidelines

The guidelines for allocating Providers to sub-accounts are listed in "Providers Module" on page 261.

This procedure begins with the Parent account, which owns all Providers and can allocate any or all of them to any of its sub-accounts (customers).

Use this procedure for de-allocating providers also. De-allocating a provider <u>is described</u> <u>below</u>.

To allocate providers to sub-accounts:

1. From the Navigation Bar, click **Providers**.

The Providers page opens to the My Providers tab, which shows a list of all available providers in the Provider column of the My Providers table ("Providers Page" on page 262

2. Click the Sub-Account Providers tab.

The Sub-Account Providers tab contains the functionality for allocating Providers to subaccounts ("Providers Page" on page 262

Providers		
MI MONDAIL	SIDECTORY PROVIDED	
Sub-Account Service Providers		and the second sec
Inner Saliderstore	+	
O Press labor radiones		

Providers Page Initial Sub-Account Providers Tab

2. Click the **Select Sub-Account** field and select the sub-account you want to allocate Providers to from the list.

A list of available providers appears ("Providers Page" on page 262).

3. Select all those providers you want to allocate to the selected sub-account.

'ro\	/iders		
	MY PROVIDERS	BJB-RCCDURT PROVIDENTS	
Sub	Account Service Providers		5445
No.	NA Internet NR	Prese solution insulate prevaies for the table accessed from the indication	
4.12	Provident well-chart		Q III
	PERMIT	41304307-00300	
	Ball 1		
	m t.		
	Provider H		
	APRE 1	(3	
	ADM 7		
	0.1		
CI.	11.1		
0	Tester T		

Providers Page Sub-Account Providers Tab with Selected Providers

3. [Optional, Parent Account Only] Turn on the Allow Self-Upload toggle (default is turned off) for any selected provider if you want to allow the selected sub-account to upload Buy rates for that provider in the Connectivity Rates module.

This toggle is used only for first-level sub-accounts of the Parent account and only for authorized users, such as MNOs.

4. Click Save.

All providers that you selected are now authorized for the selected sub-account. These allocated providers are integrated into the Connectivity Rates module. Only these allocated providers appear in the Rates tables of the sub-account ("Integration of Allocated Providers into the Connectivity Rates Module" on page 270).

To de-allocate providers from the selected sub-account:

You can remove a provider only if it is not used by any lower-level sub-accounts.

- 1. From the Navigation Bar, click Providers.
- 2. Click the Sub-Account Providers tab.
- 3. Deselect (remove the check mark from the check box) of the provider(s) you want to remove.
- 4. Click Save.

Integration of Allocated Providers into the Connectivity Rates Module

Once you allocate providers to a sub-account, only these providers appear in all Rates tables of this sub-account in the Connectivity Rates Module.

This topic presents an example of integrating Parent-account Provider allocation into the Connectivity Rates module.

The following figure shows an example of the providers allocated by the Parent Account to sub-account **test1703**:

- o Brazil 1
- \circ EU 1
- Provider H

Providers	
Tale inspare Device Presiden.	(94)
antiques	
- Anthropage	
Sub-Account Service Providers	
Select Sub-Account test1703	• ()
Electronic Contraction Contraction	
3 - 12 Providers selected	
PROVIDER	ALLOW SELF-UPLOAD
🛃 Brazil 1	
📴 EU 1	
2 Provider H	
Africa 1	

Providers Page: Parent Account Allocation of Providers to a Sub-Account from the Sub-Account Providers Tab

To view integration of these allocated providers in the Connectivity Rates module:

- 1. Assume that you are the user that owns the selected sub-account **test1703** with the allocated providers.
- 2. From the Navigation Bar, click the **Providers** tab.

The Providers page opens to the My Providers tab, which shows those providers allocated to your account, **test1703**, by your Parent account; you can now allocate these providers to your customers and upload Sell Connectivity Rates for these providers.

MY PROVIDERS	SUB-ACCOUN
My Providers	
3 Providers	
PROVIDER	ALLOW SELF-UPLOAD
Provider H	
EU 1	
Brazil 1	

Providers Page: Sub-Account with its Allocated Providers in the My Providers Tab

3. From the Navigation Pane, click **Connectivity Rates** and open the Rates table for any sub-account-Country combination, as described in "Sub-Account Single Provider-Operator Markups" on page 187.

You will see that only those providers allocated to you appear in the Rates table, as shown in the following example:

Jimeeen	ity Rates		
Select Account * test1703_3	-	Select country * Afghanistan, United Kingdo	m *
\Xi 2 🚺 Afghanis	stan 🛞 🤇 🎛 United Kingdom (8	
^ 🧧 Afgha	nistan		
PROVIDER	OPERATOR	PLMN	DATA COST (MB)
Provider H	MTN Afghanistan	AFGAR	0.006475776 (E
Provider H	Afghan Wireless Comm 🤅) AFGAW	0.11409408 (EU
Provider H	Emirates Telecommuni 🛈	AFGEA	0.112852992 (E
Provider H	Telecom Development 🕃	AFGTD	0.111611904 (E
수 🧱 Unite	d Kingdom		
PROVIDER	OPERATOR	PLMN	DATA COST (MB)
Provider H	Hutchison 3G UK Limi 🕠	GBRHU	0.002555904 (EU
Provider H	Jersey Airtel Limite 🛈	GBRAJ	0.004534272 (El

Connectivity Rates Table Showing Allocated Providers for a Selected Country

13.6 Self-Upload

Self-Upload is activated per provider (default is turned off). When activated, the sub-account that has this provider allocated to it can upload its own Buy rates for that provider.

Without this feature activated, the sub-account can only view Buy Rates provided by its Parent account and not use its own Buy Rates. This functionality is described in "View Parent Rates " on page 174

Guidelines

The Self-Upload functionality is limited to authorized users only.

Self-Upload can be implemented only by an authorized Parent account.

The Parent account can activate the feature only for second-level sub-accounts (where the Parent account is Level 1 and the sub-account is Level 2).

Activating Self-Upload

The Self-Upload functionality allows Parent accounts of type Mobile Network Operator (MNO) that own their own IMSI to set and upload their own IMSI providers connectivity rates.

You must be an authorized user to activate Self-Upload for a provider when allocating that provider to a sub-account. See also "Allocate Providers to Sub-Accounts" on page 268

To activate Self-Upload (performed by Parent account):

- 1. From the Navigation Bar, click **Providers** and do the following:.
- 1. Click the Sub-Account Providers tab.
- 2. Select the sub-account you are allocating providers to.
- 3. Select (check box) providers to be allocated to the sub-account.

The Self-Upload toggle is activated for all selected providers:

PROVIDER	ALLOW SELF-UPLOAD
Brazil 1	
EU 1	
Provider H	
Africa 1	

2. Activate the Allow Self-Upload toggle for the relevant provider(s):

PROVIDER	ALLOW SELF-UPLOAD
Brazil 1	•

3. Click Save.

The Self-Upload feature is activated for the selected providers. Now, the sub-account can upload Buy rates for this provider in the Connectivity Rates module.

13.7 How to Self-Upload Buy Rates

The sub-account can upload Buy Rates for the provider allocated to it (when Self-Upload privileges are activated).

TIP: The uploading of rates is done in the "Rates and Fees" on page 173

To upload Buy Rates for an allocated provider, do these steps:

- 1. Click **Connectivity Rates** on the navigation sidebar.
- 2. Select **My Rates** from the Select Account field.
- 3. Click **Upload as Parent** . A dialog box for uploading rates by Excel file is displayed.
- 4. A dialog for uploading rates by Excel file appears
- 5. Click the **Upload Mode**and select the appropriate Upload action:
 - **New/Update:** New rates in the Excel file are added, and existing rates with changes are updated once loaded into the system.
 - **Delete:** Enables sub-accounts to remove uploaded Buy Rates for a provider when Self-Upload is activated.
 - Full Update: Replaces all existing account rates with those in the Excel file: New PLMN rates are added, existing rates are updated, and rates not in the Excel file are removed.
- 6. Click **Select IMSI provider** and select a Provider with Self-Upload privileges. A dialog for uploading rates by Excel file is displayed.
- 7. Browse or drag the Excel file into the Drag Your Files field and click **Upload.**.

NOTE: When the Excel file is uploaded you can sell these rates to your customers.

14 Billing & Invoices

This module enables users to make manual billing adjustments for account transactions and download account invoices to track payments .

- Billing Adjustments: Make precise adjustments to billing by account or by ICCID to correct billing discrepancies, apply discounts, make refunds or adjust charges as needed.
- Invoices: Access, search and download invoices per account in PD or XML format.

There are two methods to perform billing adjustments:

- Manual Adjustment: Involves adjustment for a sub account via the portal interface.
- o Batch Operation: Handles multiple entries simultaneously via upload of a csv file

14.1 Invoice Module

The Invoices Module enables you to view and download all generated account invoices and monthly reports directly from the CMP portal.

The Invoices Module includes these files:

- Monthly usage report (in CSV or Excel format)
- Monthly invoice in (PDF format)

Invoice Table

The default list of invoice is My Account, that is the account you are currently logged into. By default, any invoices that have been uploaded previously are listed in the table in descending order of the Upload Date. However, you can sort the table by Upload Date or by Invoice Name.

Account Invoices

Click the Account list to choose any account you have access to and display the invoices that have been uploaded to the account selected; if no invoices have been uploaded, the No Data Found message appears.

Search for Invoice

You can search the table by Invoice Name only. The Search mechanism can find invoices with a partial name entry. The Search engine is not case sensitive.

Download Invoice

To download an invoice for an account, do these steps:

- 1. Select **Billing & Invoices** from the sidebar menu.
- 2. Click the **Invoices** tab.
- 3. Select an **Account** to display a list of invoices.
- 4. Scroll the list of invoices and click the **Download** icon to save invoice to computer.

To download multiple invoices, select the checkbox for each row and click the Download button displayed at the top of the page.

Make sure you make a regular monthly backup of all invoices and reports and files download to a local drive.

		1 Select Accour	nt	2	List of Inv	oices			3 Downl	.oad	
드 교에 Dashboard G SIMs	BILLING & F	ng & Invoices Billing adjustr	MENTS			INVOICES					
] SIMS Provisioning 응 Batch Operations 및 Plans ~ 銘 My Sub-Accounts	Acco									tup)	LOAD
ç ^e Providers •) Rates ने Events	27 Inv	a1 34	INVOICE NUMBER	INVOICE PERIOD	CREATION DATE	TAXABLE AMOUNT	TAX AMOUNT	TOTAL AMOUNT	INVOICE FORMAT	Q =	ш
Reports		TEST19022024.pdf	INVOICE NOMBER	INVOICE PEHOD	19.02.202-	-		-	PDF	Success	*
Order SIMs		TEST19022024.xlsx			19.02.2024			-	XLSX	Success	*
Billing & Invoices		Invoice-B- 20230101(2).pdf	132	01.02.2024 - 01.03.2024	15.02.2024	0	0	0	PDF	Success	*
3 Settings		NEW-Invoice-A-20230101 (2)(5).xlsx	131	01.02.2024 - 01.03.2024	15.02.2024	0	0	0	XLSX	Success	*
		NEW-Invoice-A-20230101 (2)(4).xlsx	130	01.02.2024 - 01.03.2024	15.02.2024	0	0	0		Success	*]
		Invoice_UA2023-137224(1).pdf	129	01.02.2024 - 01.03.2024	15.02.2024	0	0	0		Success	*
		NEW-Invoice-A-20230101 (2)(3).xlsx	128	01.02.2024 - 01.03.2024	14.02.2024	0	0	0		Success	<u>*</u>

Here is a screen capture of the Invoices screen.

14.2 View Transaction Details

When a billing adjustment via batch operation is complete, it is recommended you verify the updated data in the Transaction Details report. To display the transaction details, do these steps:

- 1. Select **Reports** from the sidebar menu.
- 2. Report Type and select Transaction DR Records.

- 3. Select an Account and enter the Report parameters.
- 4. Click **Execute** to update the Transaction DR Records table.
- 5. Scroll the page and review the batch operation data in the Transaction DR Record) table.

Here is a screen capture of the Transaction DR Records for an example billing adjustment.

	1 Transact	ion E	DR Records	2	Billing Adjı	ustment			3	Execute
프 - Dashboard G SIMs	Reports	VIEW I	REPORTS	SCH	EDULE REPORTS				REPORTS HISTORY	
SIMs Provisioning Batch Operations S Plans	View Reports									EXECUTE
유 My Sub-Accounts 옷 Providers (아) Rates	Report Type * Transaction DR R Accounts * fff, final pcm, My		•	Enter a date range Last 12 Months System Labels _NERYA_, _NERYA_1_	, _NERYA_2_, _NER	YA_3_, automat	•			
 Events Reports 위 Rules & Notifications 이rder SIMs 	Select Type			Select Labels Transaction Type Manual Adjustment	•		•			
民 Billing & Invoices 尊 Settings				Reason Credit, Debt, Discount	t, Dragons, Networ	k Activity, Order				
	Transaction	DR Re	ecords Apr 11th 2023 - Apr 11th 2	Event Date						
	6 Items									ш
	ICCID	EID	TRANSACTION ID	TRANSACTION TYPE	REASON	OPERATION	QUANTITY	EVENT DATE	ORGINAL UNIT AMOUNT	UNIT AMOUNT
Billing	893571148252195130	-	645656cf-0502-4d88-8a84-2359d1cd6697	Manual Adjustment	Shipment Cost	Debit	1	2024/03/25	3	3
4 Adjustment — Details	in the	•	6d604f36-234a-49a4-87df-f43ed5a59b3f	Manual Adjustment	Discount	Credit	1	2024/03/24	-5	-5
Details	-	÷	517b6bd4-aaa0-4b04-aff4-edbe929dda9f	Manual Adjustment	Shipment Cost	Debit	3	2024/03/26	5	5
	-	-	ef9df001-5488-43d5-ae13-f65aeb1df6f8	Manual Adjustment	Shipment Cost	Debit	2	2024/03/2	5	5

14.3 Invoice Email Notification

This feature enables customers to receive an email notification to an email address associated with the account when the billing cycle is complete and an invoice is generated.

To create an Email Notification when an invoice is created, do these steps:

- 1. Select **My Sub-Accounts** from the sidebar menu.
- 2. Click the **Addresses** tab to create a new address or select an existing address from the list.
- 3. Select **Shipping** from the Address Type.
- 4. Enter the Email address in the email field and click Save Changes.
- 5. Select the Billing & Invoice tab.
- 6. Select Invoice Configuration from the Billing & Invoice sub-menu.
- 7. Invoice Notification and select True.

- 8. Notification Method and select Email.
- 9. Click **Update** to save changes.

A screen capture of the Email Notification settings is sho	10wn here.
--	------------

	Invoice Notification 		Notification Method		
Ξ<	MY SUB-ACCOUNTS > PUBLIC CREATE ACCOUNT 128	17			
Products	public create acco	unt 12817			
🗗 My Orders	ACCOUNT	CONTACTS	ADDRESSES	BILLING & INVOICE	EXTERNAL PARAMETERS
과네 Dashboard					
SIMs	Billing & Invoice				UPDATE
SIMs Provisioning	Billing Cycle Definition	voice Configuration			
😂 Batch Operations					
화 Plans v	Payment Due After Invoice Issued*	2.00	VAT		
옶 My Sub-Accounts	90	DAYS	0	%	
泉 Providers	Invoice Text				
(•) Rates	Invoice lext				
🛱 Events	Device Cost*			USD	
Reports	0.25				
्री Rules & Notifications 🗸	Invoice Notification* True	÷.	Notification Method*	•	
'믅 Order SIMs	False		LINAL		
🗟 Billing & Invoices			XML invoice template Default XML	Ŧ	
Settings	True		Denote Print.		

14.4 Manual Adjustment

To make a manual billing adjustment for an account, do these steps:

- 1. Select **Billing & Invoices** from the sidebar menu.
- 2. Click the Billing Adjustments tab.
- 3. Select one of these options:
 - a. By Account
 - b. By ICCID
- 4. Select an **Account** from the list.
- 5. Enter a billing adjustment Amount. Use a negative amount for refund or credit.
- 6. Select the applicable account **Currency**.
- 7. Enter the billing adjustment **Quantity**.
- 8. Select one of these Reason options:
 - a. Network Activity

- b. Discount
- c. Rate Adjustment
- d. Refund
- e. Credit
- 9. Add additional information in the **Description** field (optional).
- 10. Enter the billing adjustment **Event Date**.
- 11. Click **Create** to execute the billing adjustment.

When the billing cycle is complete, the billing adjustment is displayed in the invoice.

Here is a screen capture of the Billing Adjustment screen.

	Billing Adjustments	Ir	nvoices	Invoices
Ξ×	BILLING & INVOICES			
<u>नान</u> Dashboard	Billing & Invoices		•	
🔂 SIMs	BILLING ADJUSTMENTS		INVOICES	
SIMs Provisioning				•
Batch Operations	Billing Adjustments			CREATE
§ Plans 🗸				
음, My Sub-Accounts	By Account By ICCID			
🗶 Providers	Account*			
(+-) Rates				
🛱 Events	Amount*	Currency*	Quantity* Total	
Reports	Use negative amount for refund / credit			
्री Rules & Notifications 🗸	Reason*	Description		
몇 Order SIMs				
Billing & Invoices	Event Date*	•		
稔 Settings				

, Account / ICCID Details

15 System Settings

The Settings module serves as a centralized hub for managing essential configurations and administrative tasks. This module contains various sub-modules, each displayed in a separate tab.

Here is a screen capture of the Settings module.

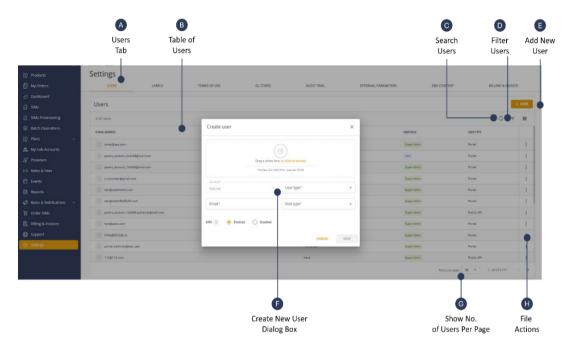
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A description of the Settings module functions is provided in this table.

Sub-Module	Description
Users	Manage user accounts, roles, passwords and permissions within the system.
Labels	Define and organize labels for categorizing SIMs and plans.
Terms of Use	Upload, download or delete legal agreements that users must accept to use SIM services.
GL Codes	Manage General Ledger codes for financial tracking and reporting.
Audit Trail	View all actions and changes made by users based on specified time frame.
External Parameters	Define External Parameter names to enable batch integrations and data exchange for per account, SIM, plan, product and package.
SMS Content	Manage SMS message templates for customer notifications and communication.
Billing and Invoice	Manage billing processes and invoice generation for customers.

Display List of Users

The Users table provides a list of all defined user accounts in the system. A screen capture of the Users table is shown here.



You can perform these actions on the table contents:

Action	Description
Filter	Filters the grid based on account, role or type.
Search	Search for a specific user.
Rows per Page	Display control of how many rows to display.
Page Navigation	Previous and Next arrows to scroll between pages.
Action Control	Enables users to edit, login on behalf or delete users
Add New User	Creation a new user account in the system.

To display the list of users, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **Users** tab to display a list of users.
- 3. Scroll the table of users and select the **Actions** control on the appropriate row.
- 4. Use the **Search** control to find a user account defined in the system.

5. Use the **Filter** control to refine list of users displayed in table.

15.1.1 Add New User

To add a new user, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **Users** tab to display a list of users.
- 3. Click + User and to display the Add User dialog box.
- 4. Select one of these options:
 - a. My Account
 - b. Sub-accounts
- 5. Select an **Account** from the list.
- 6. Select an appropriate **User Type**:
 - a. Public API: Direct access to the floLIVE CMP PublicAPI.
 - b. **Portal:** Access to the floLIVE CMP Portal.
- 7. To add an avatar, drag and drop an image file in the specified area (optional).
- 8. Enter a valid **Email** address.
- 9. Select an appropriate **Role Type**:
 - a. Super admin
 - b. Support
 - c. User
 - d. Read only
- 10. Enable Multifactor Authentication **MFA** if required.
- 11. Click Save and then click Confirm create a new User.
 - A screen capture of the Create New User dialog box is shown here.

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Edit User Profile

To edit a user profile, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **Users** tab to display a list of users.
- 3. Scroll the table of users and select the **Actions** control on the appropriate row.
- 4. Click **Edit** to display the user profile dialog box.
- 5. Upload a user **Photo** or **Avatar** image.
- 6. Select the user **Role Type**.
- 7. Click **Save** to update the user Profile.

Delete a User

To delete a user, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **Users** tab to display a list of users.
- 3. Scroll the table of users and select the **Actions** control on the appropriate row.
- 4. Click **Delete** to display the Delete User dialog box.
- 5. Click **Delete** to confirm the Delete operation.

15.2 Manage Labels

A label is a descriptive identifier assigned to a SIM card defined in Connectivity Management Platform. Labels are used to categorize and organize SIMs based on specific attributes, such as usage type, customer group, or plan. By applying labels, users can group similar SIMs together make it easier to manage and locate SIM cards in the system.

NOTE: Labels are typically limited to a single word without spaces and can only consist of alphanumeric characters. This naming convention ensures consistency and clarity in identification.

15.2.1 Create a Label

To create a label, do these steps:

- 1. Select **Settings** from the sidebar navigation menu.
- 2. Select the Labels tab to display the labels table.
- 3. Click the **+Label** button to display the Add Label dialog box.
- 4. Type a new Label Name.
- 5. Click **Apply** to define the label in the system.

TIP: You can assign labels to a SIM directly from the SIMs Table or from the SIMs Info page. Assigned labels are automatically updated in the Labels table.

15.2.2 Edit a Label

To edit a label, do these steps:

- 1. Select **Settings** from the sidebar navigation menu.
- 2. Select the Labels tab to display the labels table.
- 3. Scroll the table and selects the Actions control for a selected label.
- 4. Enter a New Label Name and click Apply.

15.3 Upload Terms of Use

The Terms of Use agreement module enables you to perform these actions:

- o Upload a new or replace an existing Terms of Use of Service agreement
- o Delete the current Terms of Use agreement
- Download the current Terms of Use agreement

A screen capture of the Terms of Use agreements table is shown here.



15.3.1 Upload Terms Of Use Agreement

When you upload a new Terms of Use agreement, all your new and existing sub-account users are required to the accept the new terms.

NOTE: You are required to upload the Terms of Use agreement in PDF format.

To upload a new Terms of Use agreement, do these steps:

- 1. Select **Settings** from the navigation sidebar menu.
- 2. Select the Terms of Use tab.
- 3. Click Upload to display the upload message box.
- 4. Click Yes to confirm overwrite of the existing Terms of Use agreement.

Note: If this is the first time you are uploading a Terms of Use agreement, the overwrite message is not displayed.

- 5. Place your PDF file in the **Upload Terms of Use** dialog box.
- 6. Click **Upload** to replace the existing file. The file is uploaded and a Success message is displayed at the bottom of the page.

IMPORTANT: Make sure all your sub-account users, both new and existing) accept the new Terms of Use agreement.Download

15.3.2 Download Terms of Use Agreement

To download the Terms of Use agreement, do these steps

- 1. Select **Settings** from the navigation sidebar menu.
- 2. Select the Terms of Use tab.
- 3. Click the **Actions** control located on the right side of the table row.
- 4. Click **Download** to save a copy of the PDF file to your computer.

15.3.3 Delete Terms of Use Agreement

To delete a Terms of Use agreement, do these steps:

- 1. Select **Settings** from the navigation sidebar menu.
- 2. Select the **Terms of Use** tab.
- 3. Click the **Actions** control located on the right side of the table row.
- 4. Click **Delete** to remove the PDF file from the table.
- 5. Click **Yes** to confirm the delete operation.

15.4 Assign GL Codes

General Ledger (GL) codes are alphanumeric identifiers used to track business activities related to SIM configurations and plans for specific sub-accounts. GL activity codes refer to activating, charging, and topping up SIMs. These codes are essential for accounting processes and are utilized by the platform to generate summary reports.

15.4.1 Types of GL Codes

There are 3 types of GL Codes:

- **Recurring Fees:** Typically monthly charges.
- Usage Fees: Charges for data and SMS usage.
- Adjustment Fees: Charges include as top-ups, Platform fee per IMSI, Surcharge Fee, eSIM fee; eSIM swap Fee or Manual Adjustment
- **Products:** Automatic recurring charges for various product services across accounts..

15.4.2 GL Code Naming Conventions

Ensure that the GL code name adheres to these rules:

• Alphanumeric characters only

- No spaces or special characters.
- Underline (_) is allowed.
- No character limit on length.

15.4.3 Guidelines for Using GL Codes

Make sure you implement these guidelines when you use GL codes.

Category	Description
GL Code Definition	GL codes can be defined per charge type within each sub-account. Codes must be unique within their definition. A validation message is provided if a violation occurs.
Account Hierarchy	Each account can define its GL codes independently. Sub-accounts can create their own GL codes for child accounts.
Specificity	More specific GL code definitions override general definitions. For example, attaching a GL code to a specific sell plan makes it more specific than one attached to all sub-accounts.
Limitations	You cannot apply the GL Code to a Sell plan that has already has another GL Code assigned to it.

15.4.4 Define GL Code

To define a GL Code do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **GL Codes** tab to display a list of GL Codes.
- 3. Click the **+Code** button to display the Create GL Code options.
- 4. Select a *Sub-Account form the list.
- 5. Select a GL Code type:
 - Recurring Fees
 - $\circ\,$ Usage Fee
 - Adjustment Fee
 - Product
- 6. Select a **Sub Type*** if applicable.
- 7. Type a Code Name*
- 8. Click **Create** to update the system with the new GL Code.

15.4.5 Set GL Code Options

To set GL Code options, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **GL Codes** tab to display a list of GL Codes.
- 3. Scroll the GL Code table and click the **Actions** control for the selected row.
- 4. Click Edit to display the GL relevant options
- 5. Update the GI Code options as required.
- 6. Click **Update** to set GL Code settings

15.5 Audit Trail

The Audit Trail provides a comprehensive log that captures all actions performed by platform users (both portal users and API Users). Users can apply specific filters to retrieve relevant audit information based on the selected criteria. This functionality is vital for monitoring user activities, ensuring accountability, and maintaining compliance with internal policies and regulations.

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i) Rates & Fees	27/10/2024 15:08:16	non@root	PORTAL	10.233.104.228	COMMAND	Account	Create Plan	Falunt	Category		
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A screen capture of the Audit Trail is shown here.

A description of the Audit Trail table columns is provided in this table.

Name	Description
Date & Time	The timestamp of the action.
Username	The user who performed the action
Client	The client of the account on which the action was performed.

Name	Description
Client IP	The client IP.
Category	The activity category.
Area	The subject area of the action.
Туре	The activity type performed.
Status	Success or Failure of the action.
Behalf on	The user on whose behalf the action was performed.

15.5.1 Filter Audit Trail

To filter the audit trail table, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the Audit Trail tab to display the audit trail table.
- 3. Click the **Filter** control to display the filter sidebar.
- 4. Select one or more **Users** to display user activities.
- 5. Select one or more **Client** type activities.
- 6. Select one or more **Category** activities.
- 7. Select one or more **Area** activities.
- 8. Select one or more **Type** activities.
- 9. Select the type of **Status** activity.
- 10. Select the **Behalf On** user activities.
- 11. Click **Apply** to update Audit Trail table display.

15.5.2 Set Time Frame

To set the Audit Trail timeframe, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the Audit Trail tab to display the audit trail table.
- 3. Use the **Filter** control and click **Apply** to refine the audit trail activities.
- 4. Select the appropriate Time Frame:
 - \circ Last 24 hours
 - \circ Last 7 days
 - $\,\circ\,$ Last 30 Days
 - Custom Dates

- 5. Select the appropriate Local Time Zone:
 - $\circ \ \text{UTC}$
 - Browser local time zone

NOTE: All timestamps are set to UTC time by default. To set the timestamp to your local time zone, turn on the **Enable local time zone** toggle:

15.6 Manage External Parameters

External Parameters connect your external system identifiers with the CMP system and enable management of platform entities such as Accounts, SIMs, and Plans using your own external IDs. The platform utilizes these parameters to generate summary reports, replacing original entity identifiers with your external IDs. Additionally, External Parameters facilitate mapping between platform entities and IDs from your external systems, including customer CRM and ERP systems.

15.6.1 External Parameter Guidelines

Use these guidelines when you create and assign external parameters.

- External Parameters can be searched in the portal UI.
- Each External Parameter has a user-defined name.
- You can define these External Parameters for each platform entity: Account, Plan, SIM, Product and Package.
- Each account in the hierarchy can define and use its own set of External Parameters for sub-accounts.

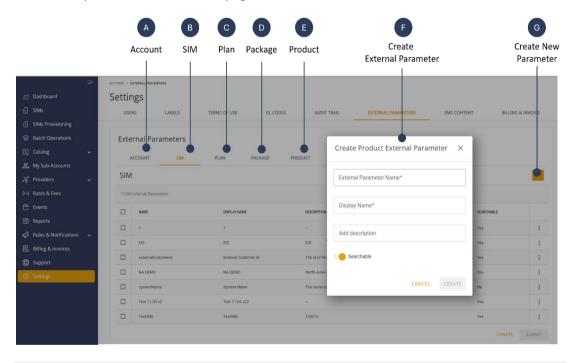
A screen capture of the External Parameters screen is shown here:

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15.7 Create External Parameter

An external parameter is a user-defined identifier that is mapped to platform entities such as Accounts, SIMs, Plans, Products and Packages. External parameters play a crucial role in organizing and categorizing accounts, plans and assigned SIMs.

A screen capture of the Parameter page is shown here.



NOTE: Select the appropriate sub-category in Step 3 to create an external parameter.

To create an External Parameter, do these steps:

- 1. Select **Settings** from the sidebar navigation menu.
- 2. Select the **External Parameters** tab to display the External Parameters table.
- 3. Select one of the appropriate sub-categories:
 - o Account
 - \circ SIM
 - \circ Plan
 - \circ Product
 - Package
- 4. Click the + sign on the header. The Create Account External Parameter dialog box is displayed.
- 5. Type an External Parameter Name*.
- 6. Type a **Display Name***for the external parameter.
- 7. Add a description for the external parameter (optional)
- 8. Check the **Searchable** option to display the parameter in the system search results..
- 9. Click **Create** to update the Account External Parameter table.
- 10. Click Submit to update system.

15.8 Assign External Parameter Values

After creating External Parameter types for your entities (Account, SIM, Plan), you must set their values in the respective modules.

NOTE: When you assign values, the external parameters are activated.

15.8.1 Assign External Parameter Value to Account

To assign an external parameter value to an Account, do these steps:

- 1. Select **My Sub-Accounts** from the sidebar menu.
- 2. Select an acount from the table to display the Account Details page.
- 3. Select the External Parameters tab.
- 4. Type a value in the parameter input field.

- 5. Repeat Step 4 to assign values to other parameters.
- 6. Click **Update** to activate the external parameter with the assigned value.

NOTE: When an external parameter is assigned a value, the value is displayed in the parameter input box.

15.8.2 Assign External Parameter Value to SIM

To assign an external parameter value to a SIM, do these steps:

- 1. Select **SIMS** from the sidebar menu.
- 2. Select a SIM from the table to display the SIM Details page.
- 3. Select the External Parameters tab.
- 4. Type a value in the parameter input field.
- 5. Repeat **Step 4** to assign values to other parameters.
- 6. Click **Update** to activate the external parameter with the assigned value.

NOTE: When an external parameter is assigned a value, the value is displayed in the parameter input box.

15.8.3 Assign External Parameter Value to Plan

To assign an external parameter value to a Regular or Pool Plan, do these steps:

- 1. Select **Regular Plans** or **Pool Plans** from the sidebar menu.
- 2. Select a plan listed in the Sell Plans tab.
- 3. Select the **External Parameters** tab.
- 4. Type a value in the parameter input field.
- 5. Repeat **Step 4** to assign values to other parameters.
- 6. Click **Update** to activate the external parameter with the assigned value.

NOTE: When an external parameter is assigned a value, the value is displayed in the parameter input box.

15.8.4 Assign External Parameter Value to Product

To assign an external parameter value to a Product, do these steps:

- 1. Select **Catalog | Products** from the sidebar menu.
- 2. Select a product listed in the **Product Configuration** tab.

- 3. Select the External Parameters tab.
- 4. Type a value in the parameter input field.
- 5. Repeat **Step 4** to assign values to other parameters.
- 6. Click **Update** to activate the external parameter with the assigned value.

NOTE: When an external parameter is assigned a value, the value is displayed in the parameter input box.

15.8.5 Assign External Parameter Value to Package

To assign an external parameter value to a Package, do these steps:

- 1. Select **Catalog | Packages** from the sidebar menu.
- 2. Select a package listed in the **Product Configuration** tab.
- 3. Select the External Parameters tab.
- 4. Type a value in the parameter input field.
- 5. Repeat **Step 4** to assign values to other parameters.
- 6. Click **Update** to activate the external parameter with the assigned value.

NOTE: When an external parameter is assigned a value, the value is displayed in the parameter input box.

15.9 Edit External Parameters

You may need to edit External Parameters to keep them accurate and relevant. This includes changing names, fixing mistakes, or updating values to reflect system or process changes. Keeping these parameters accurate helps you manage your accounts, SIMs, and plans effectively.

IMPORTANT: When edit an External Parameter name, it becomes deactivated for the entities it is assigned to. You must then redefine a value for it again to reactivate it.

To edit an external parameter, do these steps:

- 1. Select **Settings** from the sidebar navigation menu.
- 2. Select the **External Parameters** tab to display the External Parameters table.
- 3. Select a sub-category to display the associated external parameter properties.

- o Account
- \circ SIM
- o Plan
- Package
- \circ Product
- 4. Scroll the external parameter table and click the **Actions** control for the selected row.
- 5. Click **Edit** to display the external properties dialog box.
- 6. Type an External Parameter Name*.
- 7. Type a **Display Name*** for the external parameter.
- 8. Add a description for the external parameter (optional).
- 9. Click Edit to update external parameter table.
- 10. Click **Submit** to update system.

Search for External Parameters

You can only search for External Parameters that were classified **Searchable** when you created them.

The search for external parameters is done by using the Filter function for each type of parameter.

- **Account**: Go to the My Sub Accounts page and select External Parameters from the Filter tab.
- **SIM**: Go to the SIMS page and select External Parameters from the Filter tab.
- **Plan**: Go to the Plan page and select External Parameters from the Filter tab.
- Package: Go to the Package page and select External Parameters from the Filter tab.
- **Product**: Go to the Product page and select External Parameters from the Filter tab.

15.10 Display SMS Content

Super Admin users have the ability to set up the system to display SMS content in the Events table.

There are two states for the View SMS Message Content feature:

- **Disabled** (Default): Users do not have access to the SMS binary file in the Events table.
- Activated : Users can view the SMS binary file displayed in the Events table.

A screen capture of the View SMS Content settings is shown here.

	A	B				C	D
	Disable SMS Content	Activate SMS Content			51	MS Content Tab	I Agree
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My Orders	USERS LAB	LS TERMS OF USE	GL CODES	AUDIT TRAIL	EXTERNAL PARAMETERS	SMS CONTENT	BILLING & INVOICE
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≗, My Sub-Accounts	By allowing this function you declare and repres 1. You are an authorized representative of the p is provided on behalf of platforms client as a	atform's client, and your agreement hereunder					
X Providers	2. You hereby agree that all your account SIMs	uon. BMS payload and content will be stored in the platform databases. consent of all of your customers and End-Users using the platform :	to the storage				
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To display the SMS Content in the Events table, do these steps:

- 1. Select **Settings** from the navigation sidebar menu.
- 2. Select the SMS Content tab.
- 3. Check the View SMS Message Content option.
- 4. Click I Agree to update system.

NOTE: Users can now view SMS messages in the Events Table on the Events Page

15.11 Device Operations

This feature enables users to lock and unlock a SIM based on the associated International Mobile Equipment Identity (IMEI). When the lock function is enabled, the SIM card can only be used with a specific device. If the SIM card is used for a different device, the system automatically suspends the relevant subscriber.

The SIM Lock feature supports these capabilities:

 Lock SIM to IMEI: Upon initial detection of an IMEI associated with a SIM card, the system automatically locks the SIM to that device. This ensures that the SIM is tied to a specific device, enhancing security and preventing unauthorized usage. Refer to Unlock SIM: Customers can unlock the SIM and transfer it to a new device.
 When the system detects a new IMEI associated with the SIM, it "unpairs" the previous device and automatically locks the SIM to the new device.

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A screen capture of the Device Operations screen is shown here.

15.11.1 Lock All Account SIMs to IMEI

This feature enables users to lock and unlock all account SIMs based on the associated International Mobile Equipment Identity (IMEI). When the lock function is enabled, the SIM cards can only be used with a specific device. If the SIM cards are used for a different device, the system automatically suspends the relevant subscribers.

To lock all account SIMs to an associated IMEI, do these steps:

- 1. Select **Settings** from the sidebar menu.
- 2. Select the **Device Operations** tab.
- 3. Select **Device Operations** to display the SIM lock dialog box.
- 4. Check the **Lock SIMs with Device** option. All SIMs will be locked paired to the first detected.
- 5. Click **Update** to lock SIMs to the associated device.

The system locks ("pairs") the subscriber to the first used IMEI. If the SIM is used in another IMEI (a different device) then the system suspends the subscriber.

Here is a screen capture of the lock all account SIMs option.

	Lock All Sims		
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