Feature Guide

Flexible & Scheduled Reporting

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1. Introduction

1.1 Feature Overview

The Flexible Reporting Feature Guide describes how highly configurable reports can be defined, scheduled and consumed in the Vodafone Business Managed IoT Connectivity Platform.

The Flexible Reporting capability helps users create advanced reports, based on Report templates that can be run as on-off executions or scheduled to be run periodically.

Key advantages of the flexible and scheduled reporting are:

- Itemized and Summarised reports available
- Create immediate reports, schedule reports in advance once, schedule reports recurrently
- Create customized Report templates or use standard
- Apply filtering when creating reports
- Notifications by email to multiple users or by web services API when a report is ready for download
- Multiple file formats available for download: XLSX, PDF, CSV, XML

Flexible Reports are located in the left side main menu of the IoT Portal, under the section "Reporting"

0		(?) (). Platform Administrator for Platform
Dashboard	Hello, Simon 🐵 Last logged on 17-Feb-2025 09:2226	
SIMs Saved Searches	🔯 Total SIMs	
A Service Profiles	To view data please select an organisation first	
Derations	\mathcal{P}_{B} Service Usage	Select Organisation
Reporting	To view data please select an organisation first	
Reports Reports Schedules	\mathcal{P}_{B} Active Service Profiles	
Reports Templates	To view data please select an organisation first	
⊕ Exports	(3) Saved Searches	
Configuration	No data available	
AR Users ⊡ Organisations ∨	$eta_{ m B}$ Top 5 Serving Countries Data Usage (last 24 hours)	Select Organisation
Legacy M2M Portal	To view data please select an organisation first	
	\mathcal{P}_{B} Top Serving Networks	Select Organisation
	To view data please select an organisation first	
	O Operations O	
	To view data please select an organisation first	

2. Key Concepts

It is important to understand the concepts on which the flexible reporting feature is based on.

2.1 Report templates

Defines which data fields will be incorporated into the report as well as what filtering criteria and the decision on whether to have the report itemized or summarised. These fields are inherited from a Template source.

2.2 Reports Schedule

With regards to when (and how often) a report is going to be generated, three are three options:

- 1. Create a one-time report that is immediately generated
- 2. Create a one-time report that is generated on a date in the future
- 3. Create a recurring report that is generated multiple times into the future with a given periodicity.

The Schedule section of the Flexible Report feature contains those report instances that are yet to be generated. So, for one-time reports once their single report has been executed, they will disappear from the schedule section and the results will be available in the Reports section.

Recurring reports that have some more instances yet to be executed will still be shown up in the Schedule section.

While the report schedule is still shown in the Schedule section some settings can still be changed.

0	Enter INTE. ICCID. MISSON, INTE ED. Custom attribute		Q	
2 Dechboard	Reports Schedules			
Seved Searches	17 filters 2 Coule Report 0 Export	$(1 \sim)$		
	Report Name 1	Organisation	Template Nome	Status
Pa Service Publies	DiseReptation, Stp	Pathen	OlizierRegistration_Stg	Enskiel
() Operations	D42seffagitration_21.	Patturn	Dillow-Registration_Stg	Enabled
a Reporting	DivisoretDopeDetailed_Stg	Pattern	OfinternetUnageDetailed_Stg	Enabled
	Distored LageDetailed_Stg	Fathern	OtiviternetUsageDetailed_Stg	Enabled
Reports	DPunhaseBunkeGunnary	Pathern	08PurchasedBuncleGummary	Enabled
Reports Schedules	D9Purchaeed	GLOBAL	09Purchased	Enabled
Reports Templates	09%-in-hosedBundler/Detailed_WTD-55800	Pathen	00PurchasedBundlecDetailed_MTD-S2	Enabled
O Departs	09PurchasedBundlesDetailed_WTD-55888	Platform	09PurchasedBundlesDetailed_MTD 52	Enabled
Sectionaries	D9PumhasedBundler_Stg	Patham	09%schasedbander_Stg	Enabled
	09PurchasedSundies_20g	Pattern	OlfurchasedBundles_Stg	Ensbied
All them	D0PunchasedBandler_Stg	Platform	00PurchasedBandler_Stg	Enabled
🔂 Organizations 🗸 🗸	09PurchasedBundlen_Stg	Platform	00PurchasedBundles_Stg	Enabled
C Legacy M2W Portal	D8PuscherendBundlers_Stg	Pattern	09PurchasedSuncling_Stg	Enabled
	D9PuncheredBundlen_Stg	Pattern	OlfunhasedBundlen_Sig	Enabled
	D9PumhasedBundler_Stg	Platform	09PurchasedBundles_Stg	Enabled
	00%unchasedBundles_3fg	Pathern	09%schasedbandes_Stg	Enabled
	09PurchasedSundies_2L	Platform	09PurchasedSundies_Stg	Enabled
	09humhasedSumling_D	Platform	00PurchasedBundles_Stg	Enabled
	11internet/capellatingEncape	Pattern	111 Martin Calendaria Cartina Consum	Ensitient

The resulting report will be available as a download able document in the reports list.

2.3 Report

This is the end result, i.e. a downloadable set of data in a particular document format, based on the Report template that was used to create it.

2.4 Template source

A Template source is a basic, coherent subset of data; it is a set of fields that can be used within a Report template and it also defines the fields used for summarisation and filtering.



2.5 Summarized Vs itemised

A very important property of a report is whether it is itemised or Summarised. This is also set as part of the Report template. This means that a Report template - and thus the resulting report - is either itemised or Summarised. This also depends on the Template source on which the Report template is based; some sources only can be itemised because due to the nature of the data set it would not make much sense to summarize it.

An itemised report will just list all the records or items. For example, an itemised data usage report will list all data sessions that fit the report criteria such as period and possible additional filtering.

A summarised or aggregated report will summarize the data, based on summarization settings (which depend on the template, as noted above).

2.6 Data Retention

There are a number of retention rules applied to the data that is used to generate reports, as below:

- Detailed usage data, for use in itemised reports is kept for a maximum of 6months
- The maximum time period over which an itemized report can be generated is a sliding window of 1 month, up to 6 months back in time. For example, at July 17, 2018, you can run an itemised report from Dec 18 Jan 17 but you cannot run an itemised report from May 1 June 30 (time period > 31 days) and you cannot run an itemised report from Dec 1 Dec 30 (detailed data from Dec 1 Dec 17 is not available anymore)
- There are currently no window specific limits for summarized reports as long as they're within the 12 months retention period. The smallest possible aggregation is "per sim and per day".

2.7 Reports Retention

Reports, once generated, will be available as a downloadable file for a maximum of 30 days

2.8 File names

The filename for the generated report consists of the report name appended with the time period and timestamp of generation: where spaces and any characters that are present in the report name as set by the user and that are not allowed* are replaced by underscores "_"

<report_name>_<Time period start>_Time period end>_<generated date>

Where:

<report_name> is the name of the report, where spaces and any characters that are present in the report name as set by the user and that are not allowed* are replaced by underscores "_"

<Time period start>_Time period end> are the report start and end date, related to the time zone settings used in the report creation - if applicable

<generated date> is the UTC timestamp when the report is generated in the format "YYYY-MM- DDTHHMMSSUTC". For example, 2016-12-14T16:02:44UTC.

2.9 File formats

The available file formats as well as properties and limitations are shown in the table below:

File format	Properties	Size limitations
CSV	Comma separated file. In fields descriptions, spaces are replaced by underscores "_".	Max. 1000 MB.
Excel (XLSX)	Microsoft Excel file format	Max. 1000 MB.
PDF	Adobe PDF format. This format is not available for Report templates that specify more than 12 fields as columns.	Max. 5000 lines, Max. 12 columns, Max. 100 MB.
CSV, machine- readable	Comma separated file with date format fixed to UTC and unformatted numerical notation. In fields descriptions, spaces are replaced by underscores "_".	Max. 1000 MB.
XML	eXtensible Markup Language file. In fields descriptions, spaces are replaced by underscores "_".	Max. 1000 MB.
XML, machine- readable	eXtensible Markup Language file with date format fixed to UTC and unformatted numerical notation. In fields descriptions, spaces are replaced by underscores "_".	Max. 1000 MB

2.10 Data sessions length and how they affect reporting

Data (packet data) is stored in the Global IoT platform per device (SIM) as sessions. The length of such a data session is depending on how the customer device works; as some open a session and close it when they have nothing more to send and other may keep such a session open for a very long time. Another related concept that is of interest is the load timestamp. This is the time when the data for the session is loaded into the underlying database and that will be used as a selection criteria when generated summarized reports.

Usually and almost always this is right after the session is closed, i.e. the load timestamp is almost the same as the end timestamp of a session. There are however cases where missing session data is loaded into the database at a later stage.

These two factors are important to consider when generating and viewing Summarised data usage reports, as the summarization for the period aggregate is done based on the load timestamp.

2.11 Support and Incident Requests

In case of incidents or new requests being needed, please use the same channel as for the rest of IoT Portal features.

3. Report Creation and Scheduling

3.1 Introduction

This chapter explains how to create a report and provides some examples.

3.2 Create a report

Creating a report can be done within the menu 'Reports', using the 'Create report' action button.

0	Enter MSI, ICCID, NSISON, IM	D, EID, Custom attribute	Q						Antern Administrator for Platform
()) Dashboard	Reports								
g SIMs	Titters 0	wate Report							Showing 301-400 v of 1077
G Saved Searches	Report ID	Schedule ID	Report Name	Urganisation	Requested On	= Result 1	File Size	File Type	
B Service Prefiles		100215400500	Packet-Data Usage by IMSI	10july12voice	27-May-2021 09:05:18	Submitted	0 Bytes	🗄 csv	
Operations		100215380810	Pecket-Data Usage by IMSI	test_customer_substa ge	27-Mey-2021 09:22:03	Submitted	0 Bytes	∃ csv	
Reporting		100215400610	Packet-Data Usage by IMSI	test090401	27-May-2021 09:49:27	Submitted	0 Bytes	E csv	
g mputing		100215400620	Packet-Data Usage by IMSI	test090401	27-May-2021 09:55:41	Submitted	O Bytes	S csv	
Reports		100215400630	Packet-Data Usage by IMSI	text090401	27-May-2021 10:17:04	Submitted	0 Bytes	() CSV	
Reports Schedules		100215580820	Packet-Oata Usage by IMSI	test090401	27-May-2021 11:02:06	Submitted	O Bytes	fi csv	
Reports Templates		100215300830	Packet-Data Usage by IMSI	test090401	27-May-2021 11:20:57	Submitted	0 Bytes	6 csv	
Exports		100215580840	Packet-Data Usage by IMSI	test090401	27-May-2021 11:27:59	Submitted	0 Bytes	6 csv	
		100215580850	Packet-Data Usage by IMSI	test090401	27-May-2021 11:42:57	Submitted	0 Bytes	E csv	
Configuration V		100215400570	Packet-Data Usage by IMSI	Automation_Customer	27-May-2021 15:19:16	Submitted	0 Bytes	() csv	
R Users		100215400680	Packet-Data Usage by IMSI	10JUL/12VOICE	27-May-2021 15:50:49	Submitted	O Bytes	E csv	
0rganisations 🗸		100215400690	Packet-Data Usage by IMSI	10JULY12VOICE	27-May-2021 15:52:25	Submitted	0 Bytes	⊜ csv	
		100215380860	Packet-Data Usage by IMSI	test090401	27-May-2021 16:17:09	Submitted	O Bytes	6 csv	
Legacy M2M Portal		100215400700	Packet-Data Usage by IMSI	10JUL/12VOICE	27-May-2021 16:18:19	Submitted	0 Bytes	E csv	
		100215400720	Packet-Data Usage by IMSI	10JULY12VOICE	28-May-2021 15:55:00	Submitted	0 Bytes	6 csv	
		100215380880	Pecket-Data Usage by IMSI	10july12voice	28-May-2021 15:59:38	Submitted	O Bytes	⊜ csv	
		100216070580	arror wm105216020505	Subcustomer with No	10.804-2021 15:03:10	Bilad	Obter	fi ene	

Once this button is selected, a right lateral menu is displayed.

The first decisions to be taken are the Organisation that is going to be used for the report as well as the kind of Report Access Level that the report is going to have. These two decisions condition the rest of the report items.

Choose report type A Organisation Pattorm V Report Access Level Select A Standard Organisational Personal Personal Premium Select A Report Fundary Select A Report fundary Select A Report fundary Select A Report fundary Select A	$ imes$ Create Report \odot (i)	Create
Riport Access Level Select ^ Sanderd Organisational Personal Pennium	Choose report type	^
Standard Organisational Personal Permium Report Family Select	Organisation	Platform 🗸
Organisational Personal Premium Ripport family Salest	Report Access Level	Select 🔿
Personal Premium Report family Select	Standard	
Penium Report family Select	Organisational	
	Personal	
	Premium	

• Reports and organisation hierarchy

If your organization has child organizations, then you must select first the target organisation for which the report will be created for. This can be the whole organisation (parent) or any (one or more) of your children.

The key differences to consider here are:



- Report templates available to your own organisation are different than the ones for your child organisations so the resulting reports are also different.
- The access level is also conditioned by the organisation selected.

If you generate a report for your own organisation, then none of the users that belong to a child organisation can access it.

If you generate a report for a child organisation, then users of that child organisation that have a user role that has access to the reporting feature will see it in the list of reports and can download it. In turn you will also have access to any reports in child organisations, whether they have been generated by you or another user in the child organisation (where the exception is reports based on Report templates of type personal).

Also note that when you select a child organisation as the target, you implicitly filter the data in the report on that child organisation, i.e. it can never contain any information from other children or your own organisation.

Organisation	Platform 🧄
Search	
▼ Platform	platform
▶ TEST_OPC01	Орсо
Tst_opco16	Орсо
▼ OpcoTest-VisibleIMSI	Орсо
ResellerTest_visible	Орсо
Tst_opco22	Орсо
- TastOnsa UiddanIMEL 1	0000

Report Access Level

There are different types of Access Level:

- Standard: this is the most important one as these Report templates are predefined by the system for a particular organisation type. For example, a standard customer Report template can be used by all customers and sub-customers and a standard customer group Report template can be used by any customer group.
- Organisational: This is a Report template that can be used only by a particular organisation. It can be created by your contracting operator on request, for you as a customer. If you have access to the optional feature 'Report template creation', then any Report template you would create would also be of this type, i.e. it would only be available to your own organisation, not to anyone else. This is usually only required if the standard Report templates do not provide the exact report you need.
- Personal: This type of Report template can only be used by a particular person, the one who created it. This means they are only applicable to users that are allowed to create Report templates. It is mostly to be used to generate reports that may contain data that should not be accessible to other users in the same organisation

Report Access Level	Select 🔨
Standard	
Organisational	
Personal	

• Report Family and Report

The Report Family and Report section determine which report template is going to be used as the foundation for this specific report being defined.

The Report Family is a way to organize templates in common themes, so once a family is selected the corresponding child report templates will be shown for the user to select.

Report Family	Select 🔨
Messaging Usage	Î
Barred Calls	
Data Usage	
SIM inventory	1
API Transactions	
Combined usage	
OTA	v

• Filtering criteria

When creating a report, it is possible to filter the data that is contained on it.

Filtering is applied on different dimensions, some of them common to all reports (e.g. the time period for which the data is going to be considered) and some other specific to the report template selected.

The different dimension being selected for filtering will be applied in an "AND" fashion, i.e. the system search data according to the criteria of one of the dimension and later on reduces this data applying the other filtering criteria incrementally.



Filters		
Period *		Select 🔿
Today		<u>.</u>
Last Day		
Last 7 days		
Last 30 days		- U
This Month		
This Year		
1.10 A		*
Organisation	Select Organisation	~
Entity Type		Select \sim
Location		Select \lor
SIM State	Select State	~
Туре	Select type	~
Status		Select \sim
Protocol Category	Select protocol category	~
Priority	Select priority	~
Source		Select \lor

• Content

This section lists the specific content (as per the report template selected) that will be included into the report. This list is non editable at this stage, for changing contents the underlying report template would have to be modified.

^	Content
Operator/Reseller	Included Columns
Parent organisation	
Customer Id	
Customer	
Service profile Id	
Service Profile	
Tariff	
Tariff Id	
Country of usage	
SIM State	
	Format

This section shows options around file format (XLSX, CSV, etc) as well as certain aspects around timezone, number, date and hour notation.

Format	
File Format *	XLSX 🗸
Localisation *	Custom 🗸
Time Zone *	Select \vee
Date And Time Notation *	Select 🗸
24hr	
Numerical Notation *	Select 🗸

• Recurrence and Delivery:

This is the section where users define if the report is going to be executed only once or multiple times as well as the delivery method which will be used for the report to be handed over to the user.

C2 General

With regards to recurrency, if the user defines the report to be executed only once, there are 2 sub-options: executing it right away or deferring it to a later point in time. In case of multiple executions, a recurring pattern needs to be defined (e.g. daily, weekly, etc).

On the Delivery side, there are 3 options: None (which means the report completion will not be notified, although users can still come later to the IoT Portal and download the report), Attached to an email (please note there are size limitations as described in a section above) or Notify by Email (in this case the user receives an email with a link to the Report as available in the IoT Portal).

Recurrence & Delivery	
Run Report *	Once 🗸
Start Now	
Target Start Time	11:07
Start Date	18-Feb-2025
Delivery Option *	None 🔨
None	
Attached to an Email	
Notify by Email	



4. Template Creation and Edition

4.1 Template Edition

Existing report templates can be edited by IoT Portal users with the right access user access. The template edition menu can be accessed within the Report Templates section, after an individual template is selected.

A lateral menu will be displayed on the right, showing the current template contents

0				× Details - DWH-MessageUsage-itemized ⊙	
•				DWH-MessageUsage-itemized	
	Reports Templates			Source and Information	
				Template Name	DWH-MessageUsage-itemized
	Y Fitters			Report Family	Messaging Usag
	Template Name	Organisation	Report Family	Access	Standar
			Messaging Usage	Hierarchy Level	glob
			Of InternetServiceSummaryGener	Schedules	
Reporting A			01InternetServiceSummaryGener	Last update on	27-May-2024 16:52:
		GLOBAL	OfInternetServiceSummaryGener	Constant	
		Platform	01InternetServiceSummaryGener	Data Summary O Changes to this section will delete the existing	nn termilate and accordated or hedulae
		Platform		Itemised	NO.
Reports Templates			03InternetServiceIMSILevel	1	
				Contracting Entity	Operator/Reseller
			04UserRegistration	Customer	Customer
			04UserRegistration	Entity Type	Service Profile
			OSInternetUsageDetailedNetwork	Location	Country of usage
			OSINternetUsageDetakedNetwork	SIM State	SIM State >>
		Platform	OfInternetUsageDetailedAccount		Show all
		Platform	07InternetUsageDetailedIMSiLevi		
		VODAFONE-OPERATORS	Rated statement overview	Oata Filter Changes to this section will delete the existing	ng template and associated schedules
			08PurchasedBundlesSummary	Source	Serving network node × Source ×
				Priority	Priority ×
				2	mattribute 1 × Service profile Id × IMEI × IMSI × Tariff ×

This lateral menu shows the main template sections: Source/Information, Data Summary, Data Filter, Content and Format.

The majority of those information elements can be modified. When such action takes place, the user can confirm the modification by clicking the "Save" button that will be enabled at the top or discard the change by clicking on the "Discard" button.

Certain changes to a template have as a side effect the removal of associated report schedules.

4.2 Template Creation

New Report Templates can be created IoT Portal users with the right access user access. These new templates can be used by that given user only, if the access level is set to Personal or to a wider user group is the access level is set to Organisational or Standard (if available).



Template creation menu can be accessed within the Report Templates section, by clicking on the action button "Create". Once clicked, a new lateral menu will be displayed, as below:

imes Create O	Save
Source and Information	
Template Name *	
Access *	Select 🗸
Copy Settings	
Report Family *	
Data Summary	
Data Filter	
Content	
Format	

Within this new menu, the following sections need to be populated by the user:

- Source and Information: Including the given Template Name, the Access Level and the parent Report Family which is going to be used as a starting point for the template.
- Data Summary: To indicate if the template is going to be itemised or not. In case not itemised, the available summarisation criteria will be shown to the user for selection.
- Data Filter: To indicate the filtering criteria that will be available in the corresponding report created out of this template.



- Content: With the list of actual fields of information that will be included into the report. Depending on previous selections, some fields will be made mandatory.
- Format: To pick the file format as well as some other user settings like Time Zone, hour format and numerical notation.

5. Default Customer Report templates

This Appendix provides a detailed overview of all standard Report templates that are available for customers and sub-customers.

5.1 Default Customer Report templates

Template Name			
Data Usage			
Description	Can be Itemized?		
This is an itemised report listing data sessions of	Yes		
devices over the reporting period including			
usage and all details of the session.			
Aggregation Criteria			
Contracting entity: Operator/Reseller			
Customer: Customer, BAN			
Entity type: Group, Tariff, APN, IMSI, ICCIE), MSISDN, IMEI, Custom Atribute 1-5, IP		
Address			
Location: Serving Network, Country of usage			
Access type: Radio Access Type Start, Rad	dio Access Start end, Radio access type		
start desc, Radio access type end desc			
SIM State: SIM State			
Cell: CellId Start, CellId End.			
Service: Service Profile			
Filtering Criteria			
Organisation: Organisation, Date			
Entity type: Group, Tariff, Tariff ID, APN, Custom attribute 1 to 5, IMSI, ICCID,			
MSISDN, IMEI, IP Address, IP Address Type.			
Location: Serving Network, Home Country, Country of usage.			
Access Type: RAT start, RAT end			
SIM State: SIM State			
UTC Hour Filter: UTC Hour Range.			
Service: Service Profile, Service Profile ID			
Report Contents	terrer Overlagen III DAN Overlag Destin		
Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile,			
Service profile Id, Group, Tariff, Tariff Id, Country of usage, Serving Network, APN,			
Home Country, IMSI, ICCID, MSISDN, IMEI, Custom Attribute 1, Custom Attribute 2,			
Custom Attribute 3, Custom Attribute 4, Custom Attribute 5, Radio access type start,			
Radio access type end, SIM State, Load Timestamp, Session start, Session end,			
Bytes upload, Bytes upload, Bytes download, Bytes download, Total Kbytes, Total			
Kbytes, Bytes upload Test, Bytes upload Test, Bytes download Test, Bytes download			
_			

Test, Total KbytesTest, Total KbytesTest, Nr. of PS Sessions, Nr. of PS Sessions, IP Address, Nr. of Days used, Ip address type, SGSN IP Address, Session Id, Part. Session Id, Radio access type start desc, Radio access type end desc, CellId Start, CellId End

SIM Trust usage Description Can be Itemized? Provides overview or detailed SIM Trust usage Yes Aggregation Criteria Yes Contracting entity: Operator/Reseller Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom Attribute 1, Custom Attribute 2, Custom Attribute 3, Custom Attribute 4, Custom	Template Name			
Provides overview or detailed SIM Trust usage Yes Aggregation Criteria Contracting entity: Operator/Reseller Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	SIM Trust usage			
usage Aggregation Criteria Contracting entity: Operator/Reseller Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile, Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Description	Can be Itemized?		
Aggregation Criteria Contracting entity: Operator/Reseller Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Custom	Provides overview or detailed SIM Trust	Yes		
Contracting entity: Operator/Reseller Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	usage			
Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Aggregation Criteria			
Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Contracting entity: Operator/Reseller			
Atribute 1-5 SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Customer: Customer, BAN			
SIM State: SIM State Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom		ISI, ICCID, MSISDN, IMEI, Custom		
Filtering Criteria Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Atribute 1-5			
Organisation: Organisation, Date Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	SIM State: SIM State			
Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Filtering Criteria			
attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Organisation: Organisation, Date			
SIM State: SIM State Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom			
Type: Type Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI			
Other: Status, Application Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	SIM State: SIM State			
Report Contents Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Туре: Туре			
Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom	Other: Status, Application			
Service profile Id, Group, Tariff, Tariff Id, IMSI, ICCID, MSISDN, IMEI, Custom				
Attribute 1, Custom Attribute 2, Custom Attribute 3, Custom Attribute 4, Custom				
Attribute 5, SIM State, Load timestamp, Timestamp, Type, Status, Application, Nr. of				
Bootstrapping events, Nr. of Key Retrieval events, Total nr. of SIM Trust events.				

Template Name		
Combined usage		
Description	Can be Itemized?	
This is a summarized report with data, CS and	No	
SMS usage per SIM state, aggregated on the		
period aggregate, within the specified		
reportingperiod. For example: it can be used		
to report monthly usage (the period aggregate)		
over a reporting period of a year		
Aggregation Criteria		
Contracting entity: Operator/Reseller		
Customer: Customer, BAN		
Entity type: Service Profile, Group, Tariff		
Location: Serving Network, Home Country.		
SIM State: SIM State		
Filtering Criteria		
Organisation: Organisation, Date		
Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID		
Location: Serving Network, Home Country		
SIM State: SIM State		
Report Contents		
Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile,		

Service profile Id, Group, Tariff, Tariff Id, Serving Network, Home Country, SIM State, Bytes upload, Bytes upload, Bytes download, Bytes download, Total Kbytes, Total Kbytes, Nr. of Voice calls, Nr. of Voice calls, Nr. of SMS MO, Nr. of SMS MO, Nr. of SMS payload, Nr. of SMS payload, Nr. of SMS transactional, Nr. of SMS transactional, Nr. of Transactional SMS enh., Nr. of Transactional SMS enh., Nr. of SMS wakeup, Nr. of SMS wakeup, Nr. of SMS P2P MO, Nr. of SMS P2P MO, Nr. of SMS P2P MT, Nr. of SMS P2P MT, Total Nr. of SMS, Total Nr. of SMS, Nr. of PS sessions, Nr. of PS sessions, Total Duration, Total Duration, Nr. of SIMs, Nr. of SIMs

Template Name		
SMS usage		
Description	Can be Itemized?	
This is a summarized report with SMS usage per	Yes	
type, per SIM State, aggregated on the period		
aggregate, within the specified reporting		
period. For example: it can be used to report		
monthly usage (the period aggregate) over a		
reporting period of a year		
Aggregation Criteria		
Contracting entity: Operator/Reseller		
Customer: Customer, BAN		
Entity type: Service Profile, Group, Tariff, IN	ISI, ICCID, MSISDN, IMEI, Custom	
Atribute 1-5		
Location: Serving Network, Home Country.		
SIM State: SIM State		
Туре: Туре		
Other: Status		
Bearer type: Bearer type		
Filtering Criteria		
Organisation: Organisation, Date		
Entity type: Service Profile, Service Prof		
attribute 1 to 5, IMSI, ICCID, MSISDN, IM	El.	
Location: Home Country		
SIM State: SIM State		
Туре: Туре		
Other: status		
Bearer Type: Bearer Type		
Report Contents		
Operator/Reseller, Parent organisation, Cu		
Service profile Id, Group, Tariff, Tariff Id, Serving Network, Home Country, IMSI, ICCID, MSISDN, IMEI, Custom Attribute 1, Custom Attribute 2, Custom Attribute 3,		
Custom Attribute 4, Custom Attribute 5, SIN		
Type, Status, Bearer Type, Status timestan		
DCS, UDH, Encoding, Message body, TSM		
TSMS Response Prot. Id, TSMS Response Nr. of SMS payload, Nr. of SMS payload, N		
of SMS MO, Nr. of SMS MO, Nr. of Transac		
of Transactional SMS enh., Nr. of Transactional SMS enh., Nr. of SMS P2P MO, Nr. of SMS P2P MO, Nr. of SMS P2P MT, Nr. of SMS P2P MT, Total Nr. of SMS, Total Nr.		
of SMS,		



Description	Oser las literational	
Description	Can be Itemized?	
This is a summarized report with Voice and CSD	Yes	
usage per service (voice/CSD) and per type		
(MO/MT), aggregated on the period		
aggregate, within the specified reporting		
period. For example: it can be used to report		
monthly usage (the period aggregate) over a		
reporting period of a year.		
Aggregation Criteria		
Contracting entity: Operator/Reseller		
Customer: Customer, BAN		
Entity type: Service Profile, Group, Tariff, IN	ISI, ICCID, MSISDN, IMEI, Custom	
Atribute 1-5		
Location: Serving Network, Country of usage, Home Country.		
SIM State: SIM State		
Туре: Туре		
Service: Service, Bearer Type		
Filtoring Critoria		
Filtering Criteria Organisation: Organisation, Date		
Entity type: Service Profile, Service Prof	ile ID Group Tariff Tariff ID Custom	
attribute 1 to 5, IMSI, ICCID, MSISDN, IM		
Location: Serving Network, Home Country, Country of usage.		
SIM State: SIM State	iy, country of usage.	
Type: Type		
Service: Service, Bearer Type		
Report Contents		
Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile,		
Service profile Id, Group, Tariff, Tariff Id, Country of usage, Serving Network, Home		
Country, IMSI, ICCID, MSISDN, IMEI, Custom Attribute 1, Custom Attribute 2, Custom		
Attribute 3, Custom Attribute 4, Custom Attribute 5, SIM State, Load Timestamp, Call		
start, Call end, Duration, Duration Test, Service, Bearer Type, Type, Call Category,		
Other party number, Nr. of Calls, Nr. of Calls, Total Duration, Total Duration,		
Transaction ID		

Template Name			
Messaging usage			
Description	Can be Itemized?		
This is a summarised report listing NB-IoT Messaging usage per type (MO/MT), aggregated on the period aggregate, within the specified reporting period. For example: it can be used to report monthly usage (the period aggregate) over a reporting period of a year.	Yes		
Aggregation Criteria			
Contracting entity: Operator/Reseller Customer: Customer, BAN Entity type: Service Profile, Group, Tariff, IMSI, ICCID, MSISDN, IMEI, Custom Atribute 1-5 Location: Serving Network, Country of usage SIM State: SIM State			
Type: Type Status: Status, Delivery Report Required Protocol Category: Protocol Category			

Priority: Priority
Source: Message source, Serving network code.
Filtering Criteria
Organisation: Organisation, Date
Entity type: Service Profile, Service Profile ID, Group, Tariff, Tariff ID, Custom
attribute 1 to 5, IMSI, ICCID, MSISDN, IMEI.
Location: Serving Network, Country of usage.
SIM State: SIM State
Туре: Туре
Status: Status, Delivery Report Required
Protocol: Protocol Category
Priority: Priority
Source: Source, Serving Network Node
Report Contents
Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile,
Service profile Id, Group, Tariff, Tariff Id, Country of usage, Serving Network, IMSI,
ICCID, MSISDN, IMEI, Device Identifier, Custom Attribute 1, Custom Attribute 2,
Custom Attribute 3, Custom Attribute 4, Custom Attribute 5, SIM State, Load
Timestamp, Timestamp, Type, Payload size, Protocol Category, Status, Status
timestamp, Delivery report required, Priority, Message source, Serving network node,
Event Id, Match Id, Charging Group, Nr. of message MO, Nr. of message MO, Nr. of
messages MT, Nr. of messages MT, Nr. of message Blocks, Nr. of message Blocks

Template Name			
Barred Calls			
Description	Can be Itemized?		
Thisisanitemisedreportthatcontainsvoiceor	Yes		
CSDcallattemptsthatwerebarreddueto			
blacklisted numbers.			
Aggregation Criteria			
Contracting entity: Operator/Reseller			
Customer: Customer, BAN			
Entity type: Service Profile, Group, IMSI, IC			
Location: Serving Network, Country of usage	ge, Home Country.		
SIM State: SIM State			
Туре: Туре			
Call Category: Call Category			
Service: Service, Bearer Type			
Filtering Criteria			
Organisation: Organisation, Date			
Entity type: Service Profile, Service Prof	The ID, Group, Custom attribute 1 to 5,		
IMSI, ICCID, MSISDN, IMEI.			
Location: Serving Network, Home Country, Country of usage.			
SIM State: SIM State			
Type: Type			
Service: Service, Bearer Type			
Report Contents			
Operator/Reseller, Parent organisation, Customer, Customer Id, BAN, Service Profile, Service profile Id, Group, Country of usage, Serving Network, Home Country, IMSI,			
ICCID, MSISDN, IMEI, Custom Attribute 1, Custom Attribute 2, Custom Attribute 3,			
Custom Attribute 4, Custom Attribute 5, SIM State, Timestamp, Load timestamp,			
Service, Bearer Type, Type, Call Category, Other party number, Nr. of Blocked Calls,			
Nr. of Blocked Calls			

Townlete News		
Template Name		
SIM Inventory		
Description	Can be Itemized?	
This is a summarized report providing a current	Yes	
snapshot of the number of SIMs per SIM state.		
Aggregation Criteria		
Contracting entity: Operator/Reseller		
Customer: Customer, BAN		
Entity type: Service Profile, Group, Tariff, C		
Location: Serving Network, Country of usag	ge, Home Country.	
SIM State: SIM State		
eUICC ID: EID		
Fallback: Fallback		
SIM Type: SIM Type		
Other: Data session status, LAST APN		
eUICC Profile State: eUICC Profile State		
Policies: POL1, POL2		
Cloud Bridge: Cloud Bridge Connectivity		
Filtering Criteria		
Organisation: Organisation		
SIM type: SIM Type		
Entity type: Service Profile, Service Prof		
ICCID, MSISDN, IMEI, CSD MSISDN, Last	•	
address type, Custom attribute 1 to 5, O	rder Reference	
SIM State: SIM State		
EID: EID		
eUICC Profile State: eUICC Profile State		
Policies: POL1, POL2.		
Fallback: Fallback		
Location: Serving Network, Home Count		
Data session status: Data session status	5	
Last APN: Last APN		
Other: SIM Form Factor, SIM Profile code	e	
SIM Trust service: SIM Trust Service		
Cloud Bridge: Cloud Bridge Enabled.		
Report Contents		
Operator/Reseller, Parent organisation, Cu		
Service profile Id, Group, Tariff, Tariff Id, IM		
MSISDN, IMEI, Last det. IMEI, Last det. IM	•	
change, Home Country, Custom Attribute 1		
Custom Attribute 4, Custom Attribute 5, Cre		
session status, First time Active.Live, First		
started on, Nr. of SIMs, Nr. of SIMs, Last C		
Last Cell Id, Last IP Address, Last IP addre		
	/6 prefix per APN, eCall mode, Target eCall	
mode, VPN group, Order reference, Linked		
	Inloaded Date, SIM Form Factor, SIM	
Profile Code, SIM Trust service, Current eL	Inloaded Date, SIM Form Factor, SIM	
Profile Code, SIM Trust service, Current eL State, Current POL1, Target POL1, Current	Inloaded Date, SIM Form Factor, SIM IICC Profile State, Target eUICC Profile t POL2, Target POL2, Current PLMN list,	
Profile Code, SIM Trust service, Current eL State, Current POL1, Target POL1, Current	Inloaded Date, SIM Form Factor, SIM IICC Profile State, Target eUICC Profile t POL2, Target POL2, Current PLMN list, ion timestamp, Number of days offline, First	

Template Name	
ΟΤΑ	
Description	Can be Itemized?
Operator report for OTA operations	Yes
Aggregation Criteria	
Contracting entity: Operator/Reseller	
Customer: Customer	
Entity Type: Service Profile, SIM Profile	
Туре: Туре	
Other: Batch ID	
Filtering Criteria	
Organisation: Organisation, Date	
	file ID, IMSI, ICCID, MSISDN, SIM Profile
Туре: Туре	
Refresh: Refresh Needed	
User: Username	
Status: Status, Status Reason	
Time Period: Submitted Date	
Submission: Type: Submission Type	
ID: Operation ID, Batch ID Report Contents	
	internet Customorld Service Profile
Operator/Reseller, Parent organisation, Cu Service profile id, IMSI, ICCID, MSISDN, S	
	Jsername, Status, Status reason, Submitted
date, Scheduled date, Triggered date, Con	
operations, Total nr. of operations, First su	
triggered date, Last completed date, Refre	
of successful operations, Nr. of failed operations	
cancelled operations, Nr. of cancelled oper	

Template Name		
Rated Statement Overview		
Description	Can be Itemized?	
Operator report for Rated Statement	Yes	
Overview		
Aggregation Criteria		
Contracting entity: Operator		
Contact: Agent, Account Manager		
Customer: Customer, CustomerID, BAN		
Entity Type: Proposition Package		
Filtering Criteria		
Organisation: Organisation, Date		
Contact: Agent, Account Manager		
Package: Proposition Package		
Report Contents		
Operator, Agent, Account manager, Parent organisation, Customer, CustomerId, BAN,		
Proposition package, Tariff, GDSP Tariff, GDSP Tariff ID, Nr. of SIM activations, Nr. of		
SIMs Active.live, Last rated statement date, Last rated statement value, Discount		

Template Name	
IMEI Failures for Service profile	
Description	Can be Itemized?

This is an itemised report listing all IMEI	Yes	
failures over the reporting period.		
Aggregation Criteria		
Contracting entity: Operator/Reseller		
Customer: Customer, BAN		
Entity type: Service Profile, Group, IMSI, ICCID, MSISDN, Custom Atribute 1-5, IMEI		
Filtering Criteria		
Organisation: Organisation, Date		
Entity type: Service Profile, Service Profile ID, Group, IMSI, ICCID, MSISDN, IMEI,		
Last det. IMEI, TAC, Custom Attribute 1 to 5		
IMEI Match Rule: IMEI Match Rule		
IMEI Device Action: IMEI Device Action		
Report Contents		
Operator/Reseller, Parent organisation, Cu	stomer, Customer Id, BAN, Service Profile,	
Service profile Id, Group, IMSI, ICCID, MSI	SDN, Custom Attribute 1, Custom Attribute	
2, Custom Attribute 3, Custom Attribute 4, 0	Custom Attribute 5, Timestamp, IMEI Match	
Rule IMEL TAC Last det IMEL IMEL Device Action Nr. of Failures Nr. of Failures		

Rule, IMEI, TAC, Last det. IMEI, IMEI Device Action, Nr. of Failures, Nr. of Failures

Template Name		
Report Usage		
Description	Can be Itemized?	
This is an item is ed report that that provides	Yes	
usagestatistics of (flexible) reports.		
Aggregation Criteria		
Organisation: Organisation		
Template: Report Template name, Templa		
Channel: Delivery Option, Downloads Channel		
Other: Report Type, File Format		
Filtering Criteria		
Organisation: Organisation, Date		
Template: Report Template Name, Template Source Name, Access		
Channel: Download Channel, Delivery C	ption	
Other: File Format, Report Type		
Report Contents		
Organisation, Parent organisation, Organisation Id, Organisation Type, Report Name,		
Report Type, Report template name, Template source name, Access, Delivery Option,		
Request Timestamp, Execution Timestamp, Retrieval Timestamp, Generation		
Duration, Generation Duration, Download count, Download count, Downloads		
channel, User, File format, Report Size, Re	port Size	

Template Name		
EUICC Administrative Operations		
Description	Can be Itemized?	
Provides eUICC administrative operations such as Customer and SMSR Id changes along with eUICC Profile changes of all eUICC Profiles that are associated with an eUICC.	Yes	
Aggregation Criteria		
Contracting entity: Operator		
Customer: Customer		
Entity Type: EID		



Change Type: Change Type
From Customer: From Customer
From SMSR: From SMSR
To SMSR: To SMSR
From eUICC Profile State: From eUICC Profile State
To eUICC Profile State
Filtering Criteria
Organisation: Organisation, Date
Change Type: Change Type
Entity type: EID, IMSI, ICCID, MSISDN
From: From Customer, From SMSR, From eUICC Profile State
To: To SMSR, To eUICC Profile State
Report Contents
Operator, Parent organisation, Customer, CustomerId, EID, Timestamp, Change type,
From Customer, From SMSR, To SMSR, IMSI, ICCID, MSISDN, From eUICC Profile
State, To eUICC Profile State, Nr. of Changes, Nr. of Changes

Template Name		
API Transactions		
Description	Can be Itemized?	
Provides API usage statistics Yes		
Aggregation Criteria		
Organisation: Organisation		
Operation: Operation		
API Type: API Type		
Entity Type: Entity Type		
Result Code: Result Code		
User: API User, Transaction User		
Filtering Criteria		
Organisation: Organisation, Date		
Operation: Operation		
Entity Type: Entity Type		
Entity Key: Entity Key		
Result Code: Result Code		
User: API User		
Report Contents		
Organisation, Parent Organisation, Organisation Id, Organisation Type, Timestamp, Transaction Id, Operation, API Type, Entity Type, Entity Key, Entity Value, Result Code, API User, Transaction User, Ip Address, Details, Total Nr. Of Transactions, Total Nr. Of Transactions		

5.2 Most Relevant Report content items

This section contents a selection of the most relevant report content items

Field	Explanation
LUperator	Contracting operator or reseller of the organisation owning the service profile

Parent organisation	The parent organisation of the organisation owning this service profile. If the organisation is a 'normal' customer, then this is the operator or reseller. If the organisation is a sub-customer, then this is the (parent) customer. If the organisation is a customer that belongs to a customer group, then this is the customer group.
Customer	Customer or sub-customer owning this service profile
CustomerId	Id of Customer or sub-customer owning this service profile
BAN	The BAN as configured for the Customer or sub-customer owning this service profile
Default SIM state	SIM state. Possible values: N = Not provisioned, X = Inactive, A = Active.Live, T = Active.Test, S = Active.Suspend (NB service disabled), R = Active.Ready, Z = Terminated, O = Migrated Out, I = Migrated In. U = Standby. C = Active_Sleep. D = Inactive_Stopped. V = Inactive_Transformed. W = Suspend_Regulatory
To Last transformation notification	Values: A=Transformation_From_Submitted), B=Transformation_From_Completed), C=Transformation_From_Failed, D=Transformation_To_Submitted, E=Transformation_To_Completed, F=Transformation_To_Failed, G=Transformation_preparation_submit, H=Transformation_preparation_complete, I=Transformation_preparation_fail
Event metric	This is the type of Event trigger: D = Packet Data Volume In and Out, PI = Packet Data Volume In, PO = Packet Data Volume Out, VD = Voice Duration, VC = Voice Connections, PC = Packet Data Connections, SO = SMS MO Count, SW = SMS=MT Wakeup Count, SP = SMS=MT Payload Count, SN = SMS Delivery Success Ratio, AC = API Calls, AP = API Success Ratio, TS = SIM=State Duration, RC = Radius Password Failure Notification, SU = SMS=MT Transactional Count, SV = SMS=MT Transactional with Response Count, KP = KPI Code, IP = IP Address Pool, SS = Sim State Transition, RN = Radius Username Failure Notification, TU = Period since First Use in Active=Live state, TL = Period since First transition into Active.Live state, CO = Move SIM Out of CSP, CI = Move SIM Into CSP
Entity type	The entity type (set of devices) on which the trigger is applied. C = Service Profile, D = Device Group, A = APN, B = Business Service (API), S = System, U = customer



Monitoring level	E = applies to whole entity type, D = applies to individual devices within the entity type. C = combination threshold
Monitoring period	D = Daily, W = Weekly, M = Monthly, 6 = 6 hourly, 1 = hourly, H = hourly range
Туре	T = SMS-MT, N = Message Notification, M = SMS-MT with Payload, O = SMS-MO, U = SMS-MT-Transaction, V = SMS-MT_Transactional with Payload, P = P2P SMS MO, Q = P2P SMS MT
Status	S=Submitted, D=Delivered, F=Failed
Encoding	T - text, U - Unicode, B - binary. This information is only available when the optional feature 'SMS Inbox" is enabled and will only be kept for one week on the system.
Event metric	This is the type of Event trigger: D = Packet Data Volume In and Out, PI = Packet Data Volume In, PO = Packet Data Volume Out,VD = Voice Duration, VC = Voice Connections, PC = Packet Data Connections, SO = SMS MO Count, SW = SMS=MT Wakeup Count, SP = SMS=MT Payload Count, SN = SMS Delivery Success Ratio, AC = API Calls, AP = API Success Ratio, TS = SIM=State Duration, RC = Radius Password Failure Notification, SU = SMS=MT Transactional Count, SV = SMS=MT Transactional with Response Count, KP = KPI Code, IP = IP Address Pool, SS = Sim State Transition, RN = Radius Username Failure Notification, TU = Period since First Use in Active=Live state, TL = Period since First transition into Active.Live state, CO = Move SIM Out of CSP, CI = Move SIM Into CSP
Entity type	The entity type (set of devices) on which the trigger is applied. C = Service Profile, D = Device Group, A = APN, B = Business Service (API), S = System , U = customer
IMEI match rule	The type of match that is applied. N - No IMEI Checking, T - Match TAC, F - Match Full IMEI
IMEI device action	The action on the device that was triggered as a result of the event. N - No action, T - tear down device, L - tear down and IMEI lock device.

Protocol Category	The protocol category used to communicate to the device from the DMS. S=Simple (i.e UDP, UDP+COAP), M=Medium (No example yet),A=Advanced (OMA LW 1.0/1.1, TR069)
Status	[D] Delivered-DM, [U] Delivered-UE, [E] Expired, [A] Unsupported Action, [N] Not Reachable
Message source	Identifies the system sending the message to the messaging system: WLP= M2M-Portal, API=external API (API-HUB), DEV=Device, DMP=Device Management Portal. Only for internal purposes. Not recommended to be used in customer report templates.
Call Category	The Call Category used for the call. Values: On-net Off- net Partner Favourite Virtual Barring maxNumMO- day, maxNumMT-day, maxNumMO-month, maxNumMT- month, maxDurationMO-day, maxDurationMT-day, maxDurationMO- month, maxDurationMT-month



Appendix A – Glossary of Terms

Term	Definition
IMEI	The IMEI (14 decimal digits plus a check digit) or IMEISV (16 digits) includes information on the origin, model, and serial number of the device. The structure of the IMEI/SV is specified in 3GPPTS 23.003. The model and origin comprise the initial 8- digit portion of the IMEI/SV, known as the Type Allocation Code (TAC). The remainder of the IMEI is manufacturer-defined, with a Luhn check digit at the end (which is never transmitted).
IMSI	International Mobile Subscriber Identity
M2M	Machine-to-Machine
MSISDN	Mobile Station International Subscriber Directory Number
PS	Packet Switched – referring to TCP/IP packet data
SGSN	Serving GPRS Support Node
SIM	Subscriber Identity Module
SMS	Short Message Service
STCG	Standard Customer Group-abbreviation used in Report template names to indicate it is a standard customer group template
STCU	Standard Customer – abbreviation used in Report template names to indicate it is a standard customer / sub-customer template
STO	Standard Operator – abbreviation used in Report template names to indicate it is a standard operator template
STOG	Standard Operator Group – abbreviation used in Report template names to indicate it is a standard operator group template
TAC	Type Allocation Code. The model and origin comprise the initial 8-digit portion of the IMEI/SV. See IMEI above.





Together we can