Hypermedia SIM Server
HG9000

Product Manual

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HM SIM Server Product Manual

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Table of Contents

SMART SIM RACK INTRODUCTION 1

OVERVIEW 1

PREPARING YOUR HARDWARE FOR INSTALLATION 1

General Requirements 4

Unpacking the Smart SIM Rack 5

INSTALLING A SYSTEM 6

INSTALLING THE SMART SIM RACK HARDWARE 9

POWERING UP SMART SIM RACK 10

ADMINISTRATION INTERFACE 12

CONNECT TO THE SMART SIM RACK INTERFACE 12

ADMINISTRATION INTERFACE OVERVIEW 13

BROWSING SMART SIM RACK INTERFACE 13

SYSTEM PARAMETERS 15

System Settings 15

Administrator Settings 16

Smart SIM Rack License 16

SIM RACK 17

SIM Rack List 17

Add SIM Rack 18

Edit SIM Rack 19

GSM 21

GSM List 21

Add GSM: Declare a passive GSM device 22

Edit GSM: Modify or Authorize GSM device 23

GSM PORTS 25

GSM Port Filter 25

List of GSM Port 26

SIM CARD 27

SIM Card Filter 28

SIM Card List 29

SIM GROUP 32

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Smart SIM Rack Introduction

Overview

Introduction The Smart SIM Rack has 2 CPU Boards and a capacity of up to 160 SIM card.

Technical Specifications

Description	Specification
Dimensions	Smart SIM Server Rackable 19", 1RU Smart SIM Server rack Rackable 19", 2RU
Weight	Smart SIM Server – 8Kg Smart SIM Server rack - 8Kg
Input voltage range for AC power supply Current Frequency Power dissipation	- 240V 3-6 A - 63Hz 300W (maximum)
Operating temperature	-10°C to 50°C
Operating humidity	5% to 80% (non-condensing)
Noise level	dBA (minimum)
Regulatory compliance	For more compliance information, refer to the document accompanying your device
Safety compliance	UL 60950; VDE 60950

Preparing Your Hardware for Installation

General Safety For your protection, observe the following safety precautions when installing or working on your product or equipment:

- Read and understand thoroughly all instructions provided in the documentation that comes along with your equipment before you handle it.

- Pay extra attention to all warnings and cautions highlighted in the documentation or indicated on the equipment.
- Get well informed about hazards that can be caused by electrical circuitry and

1

appliances.
- Be familiar with standard practices to prevent accidents that could occur during electrical or mechanical work.
- Never install or use the equipment near wet area or with wet hands or tools.
- Never install or use the equipment in an unprotected location that could trip others up.
- Always keep your equipment in a clear, dry, and dust-free location.
- Avoid wearing loose clothing such as ties or scarves while working with the equipment.
- Wear safety glasses when working under hazardous conditions that could be hazardous to your eyes.

WARNING

Electrical Safety

Follow the guidelines below while handling your product or equipment with electricity:

- Locate the emergency power-off switch closest to your workplace such that you can turn off the power supply quickly if an accident occurs.
- Disconnect all power supplies before installing or removing your equipment.
- Always double check but never assume that the power supply is disconnected.
- Examine carefully for any potential electrical hazards in your workplace such as moist floor, ungrounded outlets, worn power cords or broken insulation before start working.
- Do not deal with electricity if any hazardous conditions exist.
- Proceed as follows should an electrical accident occur:
    i. Be careful! Do not turn yourself into the next victim.
    ii. Turn off the power supply of the equipment immediately.
    iii. Send someone else to obtain medical assistance if possible. You should otherwise call immediately for emergency help.
    iv. Provide proper first aid such as rendering artificial breath or external cardiac compression to the victim if necessary.

Prevention of Electrostatic Discharge

Electrostatic discharge (ESD) can damage your equipment and impair its electrical circuitry. An ESD event can occur if the electronic printed circuit boards are improperly handled. This can consequently cause complete or intermittent failures to your equipment.

Always observe the following procedures to prevent ESD when replacing or removing modules in your equipment:

- Make sure the chassis of your equipment is electrically connected to earth ground.

- Wear an anti-static wrist strap with a good skin contact. Connect the strip clip to an unpainted surface of the chassis in order to channel unwanted ESD voltages safely to ground.

For your equipment safety, verify periodically that the resistance value of the anti-static wrist strap always falls between 1 and 10 megohm (M□). **CAUTION**

General Requirements

Power Supply

Make sure the power supply at your selected site is noise-free without spikes. A power conditioner is recommended to maintain a smooth power supply if necessary. The Smart SIM Rack must absolutely be connected to grounded power outlets.

Site Environment

The Smart SIM Rack can be placed on a stable surface in your selected site such as a desktop, shelf or rack. The layout of your site makes a major contribution to proper system operation. Efficient room wiring, adequate ventilation, ample space between appliances and easy equipment access are among the key factors determining satisfactory system performance and maintenance.

The installation site should meet the minimum requirements listed hereafter to provide an acceptable operating environment for the Smart SIM Rack:

- Air Ventilation – The Smart SIM Rack dissipates heat just as any other electrical equipment does. The ambient temperature may not be enough to cool the server down to an acceptable operating temperature. Make sure your installation site sustain sufficient air ventilation for this purpose. In addition, your server chassis must always be well fastened to allow efficient air-cooling within the equipment. An open chassis permits air leaking that may interrupt the internal air-cooling.
- Prevention of Electrostatic Discharge – Always respect the procedure given in the Prevention of Electrostatic Discharge Section to avoid immediate or intermittent equipment failures due to electrostatic discharge.
- Site Capacity – The installation site should provide enough space to accommodate all necessary equipment and accessories. All equipment must be maintained at reasonable distance from each other for air ventilation and easy access.

Equipment Rack

The Smart SIM Rack is manufactured with a chassis height of 6 RU. It can therefore be installed in 19-inch equipment racks.

This section provides you useful information to plan the configuration of your equipment rack.

- Air Ventilation – All equipment racks must have sufficient ventilation because the server dissipates heat just as any other electrical equipment does. Enclosed equipment racks should have louvered sides and fans to provide enough aircooling. Make sure that your racks are never overcrowded. If your rack has only a ventilation fan on its top, provide additional air-cooling at the lower part of the rack to avoid the heat from rising up.
- Chassis Mounting – When mounting the server in an open rack, double check that the rack frame does not block any air ventilation openings. If the chassis is mounted on a slope, verify that the chassis is steadily positioned.
- Air Baffle – An air baffle can improve the airflow in your equipment rack by isolating the air exhaust from the air intake. Consider the airflow direction while positioning your air baffle so that the air-cooling of the chassis is optimized.

Waste Recycling

Delivery Package

Hypermedia products are delivered in a carton package with protective padding. Keep the delivery package temporarily in case you need to return the product for customer service. Once our product gives you the expected satisfaction, please recycle the delivery package properly.

Used Battery or Obsolete Device

For customers in the European Union, please respect the EU recycling regulation. Please dispose of any removed batteries or obsolete devices at the appropriate recycling center.

It is illegal to dispose of such articles in domestic refuse. For customers outside of EU, please observe your local statutory provisions for this subject matter

Unpacking the Smart SIM Rack

Introduction

The Smart SIM Rack is delivered in a large box packed with foam padding to protect it against shock during shipping. Do not remove the Smart SIM Rack from this protective padding until you are ready to install it.

Power Supply

When you are ready to install the Smart SIM Rack, remove all items from the box carefully (i.e. Smart SIM Rack and accessories). Visually inspect all items for any damage or omission before installation.

The hardware configuration of the Smart SIM Rack should feature:

- A fan
- A power connector
- A power switch
- A serial communication port RS-232 (standard DB-9 format)
- An Ethernet 10/100 base-T port
- A USB port
- A power cable corresponding to your geographic location

Please contact your retailer or shipping company should you find any damaged or missing items in your delivery package.

Installing a System

Install the SIM Server and SIM server Rack/s.

HG-9000 SIM Server – 256 SIMs Front

HG-9000 SIM Server – 256 SIMs Back

HG-9000-16 SIMs Blade Card

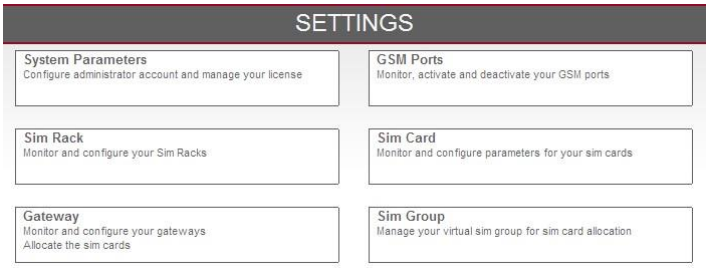
1. Mount the SIM Server and SIM server Rack/s in a 19” rack or set it in another well ventilated and protected location.
2. Attach the LAN cables to the SIM Server and SIM server Rack/s and the second side of the cable to the WAN socket.
3. Attach the power cable to the SIM Server and SIM server Rack/s and to the power outlet.
4. Turn on the SIM Server and SIM server Rack/s.

Install the Gateway.

1. Mount the Gateway in a 19” rack.
2. Attach the WAN cable to the Gateway and the second side of the cable to the WAN socket.
3. Attach the power cable to the Gateway and to the power outlet.
4. Turn on the Gateway.

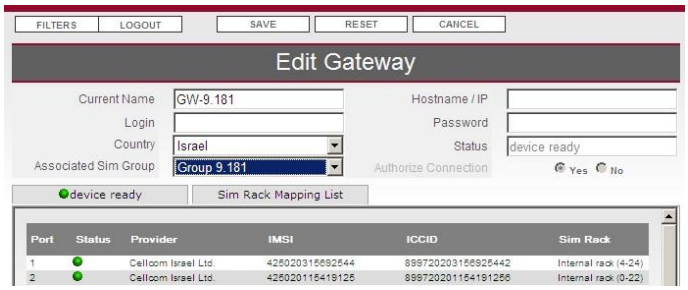
Configure the SIM Server.

1. Open a browser and enter the IP address of the SIM Server.
2. Enter the password and click **Enter**. The Settings screen is displayed.



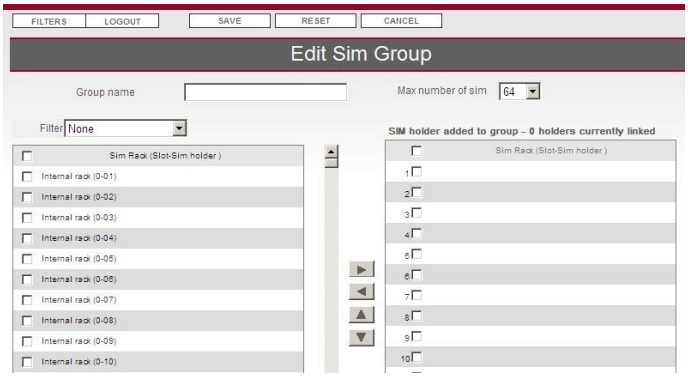
3. Click **Gateway**. The Gateway List is displayed and the Gateway appears in the list.

4. Click (Edit). The Edit Gateway screen is displayed.



5. Edit the Gateway's name and password.
6. Select the **Authorize Connection > Yes** button.
7. Mouse-over the left tab and click **Enable**.

8. From the navigation panel, click **SIM Group**.
9. Click **Add Group**. The Edit SIM Group screen is displayed.



10. Create the SIM group. For instructions, see “SIM Group” on page 32.
11. From the navigation panel, click **Gateway**. The Gateway List screen is displayed.
12. Click (Edit). The Edit Gateway screen is displayed.
13. From the Associated SIM Group dropdown menu, select the new SIM Group.

Configure the Gateway.

1. Open the Gateway’s Hypermedia Management Console (HMC).
2. From the Configure branch of the HMC Navigation pane, expand the **SIM Server** sub-branch.
3. Click **Deck Settings** and enter the IP address of the SIM Server.
4. Click **Card Settings** and configure the SIM cards to Virtual Mode.
5. Optionally, customize the SIM associated with the channel.
6. Optionally, set the SIM Switching plan. This is done from the Scheduler. Documentation on the Scheduler is located in the Gateway Product Manual.

Installing the Smart SIM Rack Hardware

WARNING

Electrical Warning!

Internal components of Smart SIM Rack are pre-installed and pre-configured. Do not remove, replace or modify these components without consulting Hypermedia customer service or your retailer/distributor.

You must always respect the electrical safety to protect yourself against electrical accidents once your Smart SIM Rack is connected to power supplies.

Never remove the top chassis cover of your Smart SIM Rack once it is connected to power supplies.

Connecting

Follow the instructions below to connect your Smart SIM Rack to a power supply:

- Make sure that all power outlets are earth grounded with over-current protection.
- Double check that the power switch of your Smart SIM Rack is set to the OFF position before any power connection.
- Connect the AC adaptor to the power connector located at the back of your Hypermedia Rack

Connecting to LAN/WAN

Follow the instructions below to connect your Smart SIM Rack to a LAN/WAN network:

- Connect the RJ45 Ethernet cable to the Ethernet 10/100 Base-T port located at the rear panel of your Smart SIM Rack.
- Connect the other end of the RJ45 Ethernet cable to your LAN/WAN network hub.

Powering up Smart SIM Rack

Introduction

This chapter provides information about powering up your Smart SIM Rack including LED interpretation and booting preparation.

LEDs

Each SIM board from the Smart SIM Rack is equipped with two LEDs on its front.

The different indications of these LEDs signify different operating states of the Smart SIM Rack once the power is turned on. It is important to understand the different LED indications in order to spot quickly any faulty conditions that the array may encounter.

LED Indications for SIM board		Interpretation
Green LED	Yellow LED	
Off	Off	SIM board inserted properly
Off	On	Physical problem encountered, e.g. SIM board is not properly inserted

Power-up

Once the hardware is properly installed and the LED indications are well understood, you are ready to power up your Smart SIM Rack.

procedure

WARNING

Electrical Warning!

The plug-socket combination of the power supply for your Smart SIM Rack must absolutely be accessible at all times because it serves as the main disconnecting device.

CAUTION

Never operate your Smart SIM Rack without tightly fasten its chassis cover for the reason of having adequate internal air-cooling.

Procedure

Follow the procedures described hereafter to power up your Smart SIM Rack for its system initialization and self-tests:

Step 1

Turn on the power supply of the PC to which you have established the console connection for your Smart SIM Rack. The console connection allows you to view the booting sequence of your server on the PC terminal.

Step 2

Set the power switch of your Smart SIM Rack to its ON position. Observe the followings:

The “On” and “Activity” LEDs of the front panel will be turned on.

The internal fan of the server will start operating.

Your Smart SIM Rack is now powered up and ready for the software configuration. Refer to the next section to proceed to the software configuration.

Administration Interface

Connect to the Smart SIM Rack interface

Procedure

Smart SIM Rack provides a web based administration management interface to configure and manage SIM card usage with additional SIM Rack and GSM device.

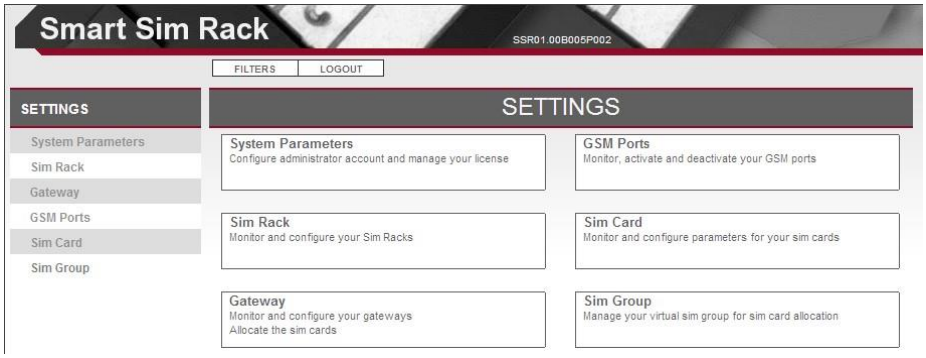
Follow the instructions described in the table below to access Smart SIM Rack web interface.

Steps	Action
1	Launch your web browser.
2	Enter the URL of the Management Interface as follows: **http://Configuration**_web_server:8000 *Configuration_web_server* stands for the hostname or the IP address of the Smart SIM Rack. http://192.168.200.135:8000 NB: The port can be modified. The Management Interface login page will be displayed (see Figure 2-1)
3	Enter your user login and password then click Enter. Default user: administrator / Hypermedia.

Administration Interface Overview

Introduction

Once connected to the Smart SIM Rack interface, the six categories tables are displayed. These categories are described hereafter:



System Parameters	Defines the administrator account, logs and license parameters
SIM Racks	Defines SIM Rack devices that can be used from the Smart SIM Rack.
GSM	Defines GSM devices that can be used from the Smart SIM Rack.
SIM Card	Manage all the SIM card control from the Smart SIM Rack
SIM Group	Defines the SIM Group linked to each GSM device
GSM Ports	Monitor and manage every GSM ports from any GSM device

Browsing Smart SIM Rack interface

Definition When browsing through the Smart SIM Rack menu, a set of buttons are displayed in the various configuration pages to help users setup the different tables

Button name	Function
ADD GATEWAY	Add a new GSM device to the system
ADD GROUP	Add a new SIM Group to the system
ADD SIM RACK	Add a new SIM Rack to the system
CANCEL	Go back to previous section
CLEAR FILTER	Clear current filter to define a new filter.
DELETE	Delete the selected item
DISABLE	Disable the selected item
ENABLE	Enable the selected item

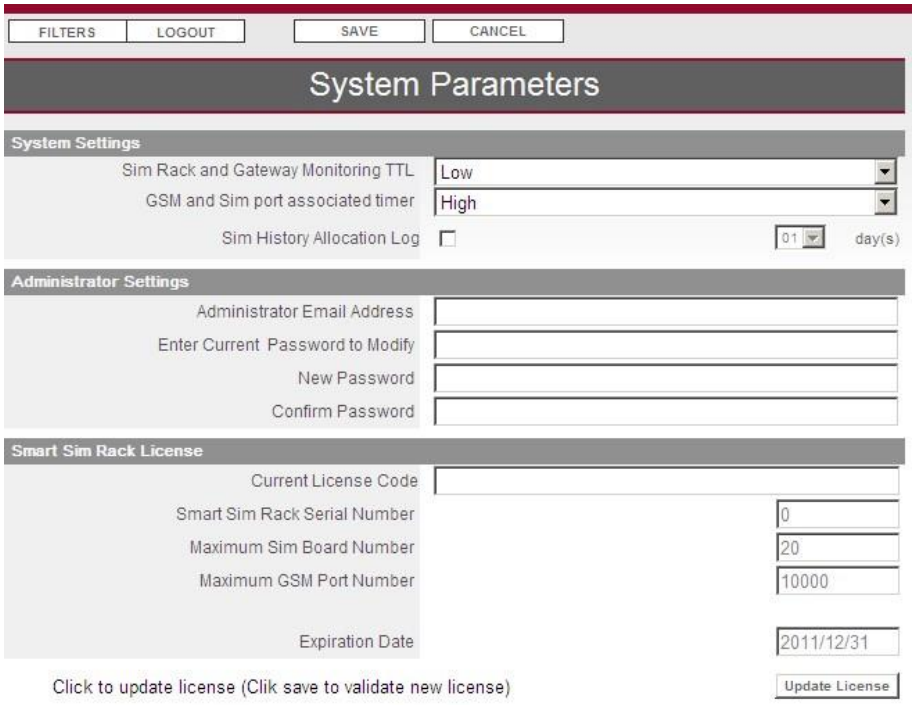
EXPORT	Export the current data from list
FILTER	Modify, Clear or list the defined filter from a given list displayed in main frame
LOGOUT	Exit from Smart SIM Rack Administration Interface
OK	Confirm/Accept the request on screen
RESET	Cancel the modifications made in the current screen.
SAVE	Save current record/modifications
SAVE FILTER	Save a new customized filter
UPDATE	Update selected item
Update License	Update the Smart SIM Rack license
	Edit the record
	Remove the record

System Parameters

Presentation

System Parameters allows to customize the Smart SIM rack.

It gives you access to the system settings, administrator account parameters and to the license being used from the Smart SIM Rack.

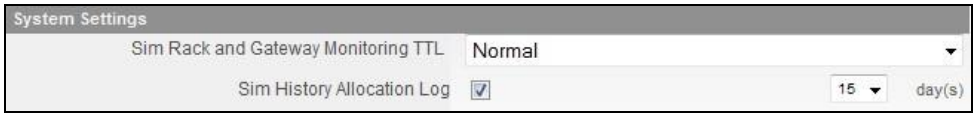


Action Name	Description
Update License	Click this button to modify your Smart SIM Rack license
Field Name	**Description**
SIM Rack and GSM Monitoring TTL	This value defines the interval used from the Smart SIM Rack to scan for new SIM Racks. The higher it is the faster you get information.
SIM History Allocation Lop	By enabling this parameters you are allow to keep the history of any SIM card allocation. The history log is saved for the number of days you have set then it loops.

System Settings

Usage This section displays the Time To Live parameter being used from the Smart SIM Rack in order to scan for new SIM Rack unit or GSM ports status GSM. I

Action & Field description Snapshot



Administrator Settings

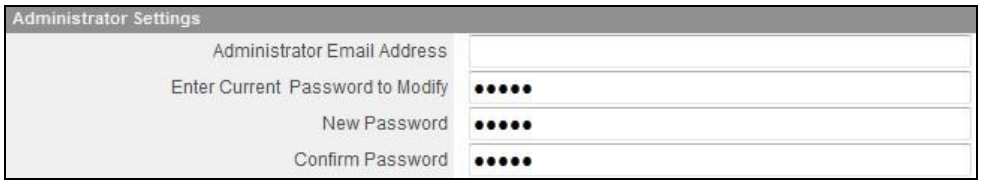
Usage This section allows managing Administrator account email address as well as password.

Field description

Field Name	Description
Administrator Email Address	Set the email address for receiving system events
Enter Current Password to Modify	
New Password	
Confirm Password	

Smart SIM Rack License

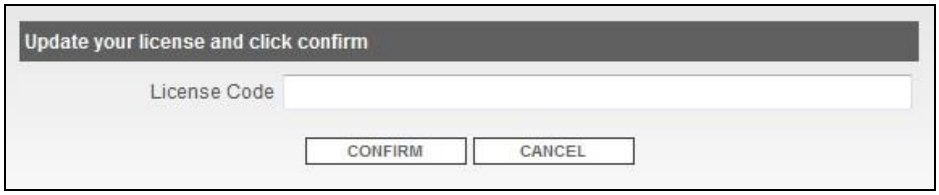
Snapshot



Usage If you select a partition from this table with no license or with license expired you will be able to associate a new license.

Field description

Field Name	Field Description
License Code	Enter the new license here then click OK
License File	You can import the license from a file by cliccking browse



SIM Rack

Presentation The SIM Rack menu defines and monitors Hypermedia SIM Racks linked to the Smart SIM Rack

SIM Rack List

Usage

The Hypermedia SIM Rack List gives you an overview of current status of your SIM Rack in use. You are able to add a new SIM Rack, edit or to delete any of the SIM Rack in used.

Action Name	Description
ADD SIM RACK	Click this icon to add a new SIM Rack
Field Name	**Description**
	Click this icon to edit the SIM Rack
Name	Shows the given name of the SIM Rack
Hostname or IP	Shows either the IP or the hostname used by the SIM Rack to be reachable from other devices
Status	Shows the current connection status of the SIM Rack **Working** means the SIM Rack is linked to a Smart SIM Rack **Unavailable** means there is no connection yet
SIM Board	Indicates the current number of SIM Boards inserted in SIM Rack
SIM	Indicates the current number of SIM card inserted in the SIM Rack
	Click this icon to delete the SIM Rack record

Field description

Snapshot

Add SIM Rack

Usage

To create a new SIM Rack you must first click on ADD SIM RACK button.

The Smart SIM Rack can be deployed in a complex network architecture wherein certain elements of the architecture are in private LAN behind a NAT and/or firewall. Therefore, it is possible to configure two virtual IP addresses for a given Hypermedia SIM Rack.

Example

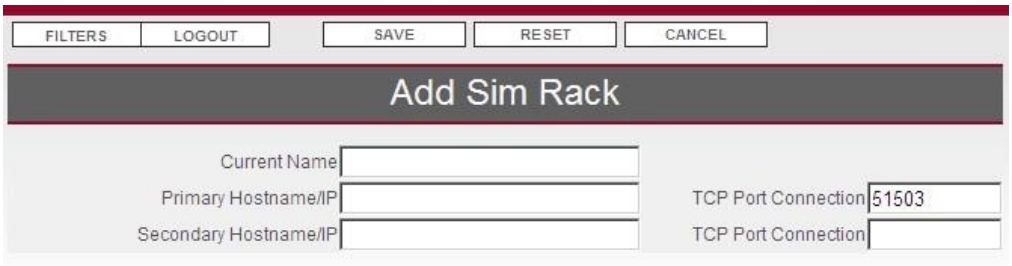
An Hypermedia SIM Rack can be located in the same private LAN as a Smart SIM Rack. To access the Hypermedia SIM Rack, the Smart SIM Rack will use the private IP address of the Hypermedia SIM Rack. For those GSM devices deployed in different locations, they will have to use the NAT public IP address of the Hypermedia SIM Rack to access to the Hypermedia SIM Rack. In such deployment scenario, the primary IP address of the Hypermedia SIM Rack will be set to its real private IP address while the secondary IP address of the Hypermedia SIM Rack will be set to the public IP address of the NAT router.

Field description

Action Name	Description
SAVE	Save the SIM Rack entry
RESET	Cancel the pending modification of SIM Rack parameters
CANCEL	Go back to previous section
Field Name	**Description**
Current Name	The given name for the SIM Rack associated to the partition
Primary Hostname / IP	Enter the primary IP address of the given Hypermedia SIM Rack. This IP address is used by the Smart SIM Rack to connect to the Hypermedia SIM Rack.
TCP Port Connection (primary)	The port is 51503 by default. This port value can be modified. Example: If two Hypermedia SIM Racks have the same public IP address, they will then need to be addressed using different ports. A configuration change will also be required at the Hypermedia SIM Racks setup.
Secondary Hostname / IP	Enter the secondary IP address of the given Hypermedia SIM Rack (optional). This IP address is required by a GSM device that needs to access the Hypermedia SIM Rack with an IP address different from the one used by the Smart SIM Rack.

	Example: When a SIM Rack and an Smart SIM Rack are deployed behind a NAT firewall, GSM device will access the Hypermedia SIM Rack using a public IP address (secondary) while the Smart SIM Rack will use local IP address of the Hypermedia SIM Rack (primary).
TCP Port Connection (secondary)	The port is 51503 by default. This port value can be modified. Example: If two Hypermedia SIM Racks have the same public IP address, they will then need to be addressed using different ports. A configuration change will also be required at the Hypermedia SIM Racks setup.

Snapshot



Edit SIM Rack

Usage

If you wish to edit the SIM Rack properties, just click the icon

If you edit the SIM Rack while it is in status unavailable, you will have access to the same web form as when you click ADD SIM RACK.

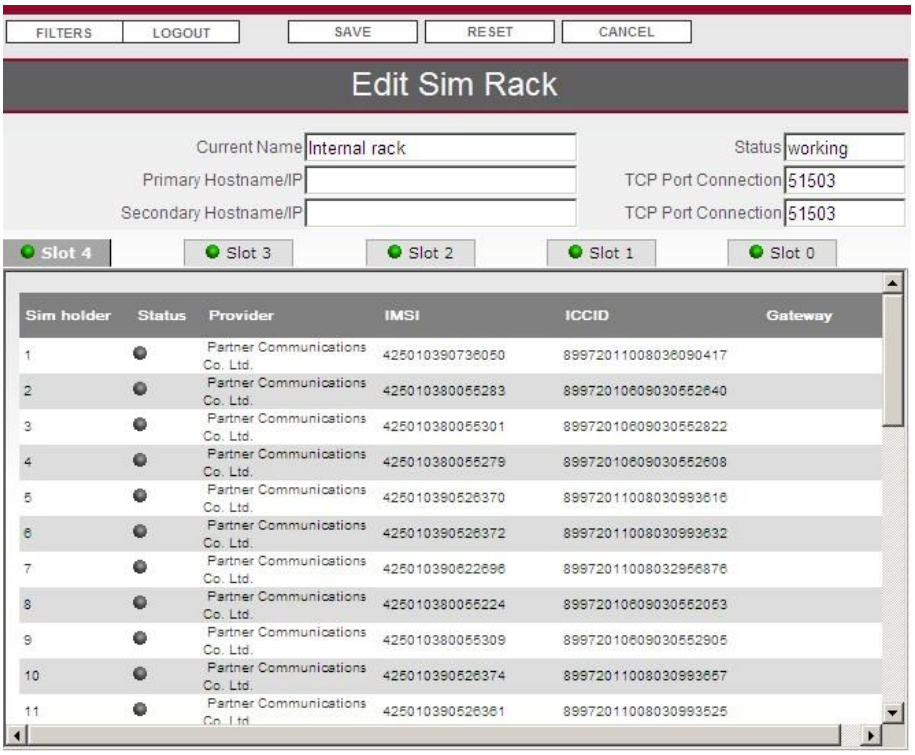
Action Name	Description
SAVE	Save the SIM Rack entry
RESET	Cancel the pending modification of SIM Rack parameters
CANCEL	Go back to previous section
Field Name	**Description**
Current Name	Modify the name of the Hypermedia SIM Rack.
Status	Indicates the current status of the SIM Rack (read only)

Field description

Primary Hostname / IP	Modify the Primary Hostname or IP
TCP Port Connection (primary)	Modify the Primary TCP Port Connection
Secondary Hostname / IP	Modify the Secondary Hostname or IP
TCP Port Connection (secondary)	Modify the Secondary TCP Port Connection
Slot Status Icon	Indicate the real-time availability status for each SIM board slot in the Hypermedia SIM Rack: Disabled or in maintenance Slot ready Disabling process Hypermedia SIM Rack unreachable
Slot Field Name	**Description**
SIM Holder	Shows the ID of the SIM Board number as it is inserted in the SIM Rack

Status SIM Card	Indicate the real-time availability status for a given SIM card in the Hypermedia SIM Rack: SIM deactivated SIM not assigned to a port SIM is assigned to a port SIM is assigned to a GSM device but cannot be reached by the Smart SIM Rack SIM is in a SIM Rack but cannot be reached by the Smart SIM Rack SIM is not currently inserted into an Hypermedia SIM Rack
Provider	Indicates the mobile provider name from reading SIM information
IMSI	Indicates the IMSI read from the SIM card
ICCID	Indicates the unique ICCID read from the SIM card
GSM	Indicates the GSM device name and the GSM port number If the SIM card is allocated to a GSM port

Snapshot



GSM

Presentation The GSM menu defines and monitors the GSM devices linked to the Smart SIM Rack

GSM List

Usage The GSM list section defines and lists the GSM devices that are used in the IRON Cluster architecture.

Field description

Action Name	Description
ADD GATEWAY	Click this icon to edit current GSM record
Column Name	**Description**
	Click this icon to edit current GSM record
Name	Name of the GSM device
Hostname or IP address	Hostname or IP address of the GSM device
Status	Link status between the Smart SIM Rack and the GSM device. Possible statuses are: Waiting for validation: New GSM GSM unreachable GSM ready for use GSM disabled or not authorized for connection
GSM port nb	Number of physical GSM ports of the GSM device.
SIM Group	Indicates the Virtual SIM Group linked to the GSM
	Click this icon to delete current GSM device

Snapshot

Add GSM: Declare a passive GSM device

Usage

Click ADD GSM to create a new passive GSM device entry
This section is being use only for GSM not registering itself to the Smart SIM Rack

Field description

Field Name	Description
Current Name	Enter the name of the GSM device.
Hostname or IP address	Enter the hostname or the IP address of the GSM device.
Login	Enter the login name for the connection.
Password	Enter the password for the connection.
Country	Select the country for the GSM device from the pull-down list. This information is extremely important as the system will apply the country information for the SIM allocation.
Status	Current read only GSM status
Associated SIM Group	Select the Virtual SIM Group that will be used from the GSM device

Authorize connection	GSM device must be authorized from system in order to get access to the Virtual SIM Group. Yes: The GSM device is automatically authorized at first connection No: The GSM device must be authorized after first connection

Snapshot

Edit GSM: Modify or Authorize GSM device

Usage

Click the edit icon to get GSM device information or to authorize a new GSM device

SIM Rack Mapping List allows selecting the IP address of each SIM Rack through which the given GSM device can be connected.

This setting is useful for an SIM Rack deployed behind a NAT or a firewall that can be accessed either via its private or public IP address.

Field description

Field Name	Description
Current Name	Enter the name of the GSM device.
Hostname / IP	Enter the hostname or the IP address of the GSM device.
Login	Enter the login name for the connection.
Password	Enter the password for the connection.
Country	Select the country for the GSM device from the pull-down list. This information is extremely important as the system will apply the country information for the SIM allocation.

Status	Read-only information about the running status of the given

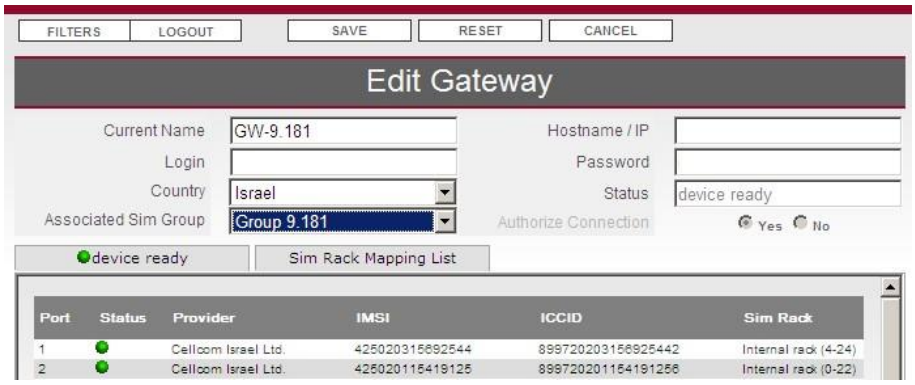
	GSM device

Associated SIM Group	Select the Virtual SIM Group that will be used from the

	GSM device

Authorize connection	GSM device must be authorized from system in order to get access to the Virtual SIM Group. This is defined at first connection. Read only information
GSM port NB	Read-only information about the number of GSM ports of the given GSM device.
Device Tab Field Name	**Description**
Device status	Indicate the real-time availability status for a given device: Device disabled Device ready and connected to Smart SIM Rack Disabling process Device unreachable, IP connection lost from Smart SIM Rack
Port	
Status	Indicate the real-time availability status for a given SIM card in the Hypermedia SIM Rack: SIM deactivated SIM not assigned to a port SIM is assigned to a port SIM is assigned to a GSM not reachable SIM is in a SIM Rack which is not declared anymore SIM is not currently inserted into any SIM Rack
Provider	Indicates the mobile provider name from SIM card
IMSI	Indicates the IMSI read from the SIM card
ICCID	Indicates the unique ICCID read from the SIM card
SIM Rack	Indicates the SIM Rack, the SIM Board and the SIM Holder number
SIM Rack Mapping List Tab Field Name	**Description**
Available SIM Rack	Name of SIM Rack available from Smart SIM Rack
Primary Access	Select the primary access only
Secondary Access	Select the secondary access only

Snapshot



GSM Ports

Presentation This table allows you to control and monitor single GSM ports.

GSM Port Filter

Usage Once you click on GSM port menu selection, you will have to filter the GSM port you need to display. To display all GSM ports you can click directly on button

Field description

Field Name	Field Description
GSM ports Filter	
View all records	Select this radio button to list the enitre GSM ports list
Apply a recorded filter	Select this radio button and choose the customized filter you have previously saved
Apply a customized filter	Select this radio to set your own filter

Filter	
IMSI	Select the IMSI or range of IMSI being in use from GSM port
ICCID	Select the IMSI or range of ICCID being in use from GSM port
Status	Select the status type you want to filter Port is disabled Empty GSM port GSM port with registered SIM card GSM port registering GSM port in error GSM port is in local mode not managed from Smart SIM Rack
GSM device	You can select a specific GSM device
SIM Group	You can select GSM ports associated to a given Virtual SIM Group

Snapshot

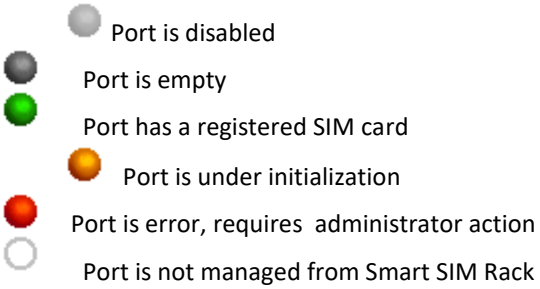
List of GSM Port

Usage

The GSM Port Table provides the running status summary of all GSM ports from GSM devices declared in the Smart SIM Rack architecture.
Indication of number of ports listed is present on top right of the window

Possible actions on GSM ports are: Enable, Disable and Export Port information.

Field description

Action Name	Action Description
FILTER	Modify or clear current filter criteria
SAVE FILTER	Save the current customized filter
ENABLE	Enable all GSM ports selected with the checkbox
DISABLE	Disable all GSM ports selected with the checkbox
EXPORT	Export the list of GSM port present on screen
Field Name	**Field Description**
Status	Set the current status of GSM port  Port is disabled Port is empty Port has a registered SIM card Port is under initialization Port is error, requires administrator action Port is not managed from Smart SIM Rack
Gateway GSM Port	Identify a given GSM port with its associated GSM device name and port information with the following syntax: **GSM_device_Name Port_number** Example: LabGW 01 means GSM port 1 of the GSM device named LabGW.
Associated SIM Group	Display the SIM Group name being used from the GSM port
IMSI	The International Mobile Subscriber Identifier (IMSI) of the given GSM port. This field is empty if no SIM card is allocated to the given GSM port.
ICCID	The Integrated Circuit Card ID (ICCID) of the SIM card currently allocated to the given GSM port. This field is empty if no SIM card is allocated to the given GSM port.

SIM Card

Presentation This section gives you access to the control of your SIM, you can define price plan and SIM card behavior, groups, allocation settings and SIM group sharing credit.

SIM Card Filter

Usage Select the criteria you need in order to get the list to restricted number of SIM cards.

Field Name	Field Description
View all records	Select this option to list all the SIM defined in the system WARNING: By selecting this action, listing can take a while for huge system with hundreds of thousands of SIMs
Apply a recorded filter	Select this option to select a customized filter previously recorded
Apply a customized filter	Select this option to use the next filtering form
Customized Filter Criteria	
Status	Select the SIM status you are searching SIM card is disabled SIM card is available SIM card is registered to network SIM card is not present in any SIM Rack SIM card Smart SIM Rack
SIM Group	Select SIM Group for SIM card
SIM Rack	Select SIM Rack for SIM card
SIM Board Rank	Select SIM Board number for SIM card
Gateway	Search for the SIM card actually allocated to the device selected
Country & Provider	Select the country then provider for SIM card selection
IMSI	Set a range of IMSI to search
ICCID	Set a range of ICCID to search

Field description

Phone number	Select phone number range from SIM card

Snapshot

SIM Card List

Usage The SIM Card List provides information about filtered SIM card.

Field Name	Field Description
Action Button	
DELETE	Delete all SIM selected from check box
UPDATE	Open update form for all SIM card selected from check box
FILTER	Modify, clear or select another filter
SAVE FILTER	Save current filter for future use
EXPORT	Export the full SIM List filtered
SIM Card List	
CheckBox	Select the check box to perform action described above
	Edition of the SIM card parameters
Status	Show the current status of the SIM SIM card is disabled

Field description

	SIM card is available SIM card is registered to network SIM card is not present in any SIM Rack SIM card Smart SIM Rack
SIM Rack Position	Shows the current place of the SIM card in the SIM Rack
Gateway Position	Shows current device and GSM port used for the SIM card
SIM Group	Shows the current SIM Group as well as the position in list
Provider	Shows current provider
IMSI	Shows SIM IMSI number
ICCID	Shows SIM ICCID number

Snapshot

DELETE a SIM card

Usage

The SIM Pool table offers the possibility to delete a SIM record.

For example, the administrator can delete a SIM card which is not anymore in the Hypermedia SIM Rack

To delete SIM records, you must select SIM List list

Process description

Step	Action
1	Select concerning SIM cards by clicking on the checkbox located on the left side of the SIM Pool table
2	Click DELETE and confirm WARNING as undo is not possible after confirmation

Update a SIM card

Usage

This button allows setting up various criteria of a particular SIM card or a set of SIM cards.

SET SIM has same behavior for any list

To set SIM information, follow the procedure :

1/ Select the SIM card to update

2/ Click on UPDATE button

3/ Modify the values

4/ Click SAVE to confirm new values

Action Name	Action Description
SAVE	Check this box to reset all statistic counters of selected SIM cards.
CANCEL	Check this box to reset all statistic counters of selected SIM cards.
Field Name	**Field Description**
Set value for disabling SIM card	Check this box to reset all statistic counters of selected SIM cards.
Set value for PIN code	Check this box and enter the PIN code for selected SIM cards.
Set value for SMS Centre	Check this box and enter the service number of the SMS Center for selected SIM cards.
Set value for SIM Group	To add the SIM card selection into the group, check this box and select a SIM group.

Field description

Snapshot

Export SIM Card List

Usage

You can export from your Smart SIM Rack system any SIM data.

Export the list of SIM cards (or list of filtered SIM card) with their associated information into a .CSV file with the format below: exported[x].csv

SIM Group

Overview

The SIM Group Table provides a list of SIM groups sorted according to specific criteria and provides the capability to group SIM cards.

Create a new SIM

The procedure to create a new SIM group is described below:

Steps	Action
0	Click ADD GROUP menu button above the SIM Group Table. A new interface for group criteria specification is displayed (Figure 2-28).
1	Enter the name for the new group of SIM cards to be defined.
2	Select the maximum number of SIM card for the SIM Group (16 to 128)

3	Select SIM to add in the new group: **a.** The left panel list the SIM cards available, that is, those not yet selected. To list only a subset of all SIM card, select a filter (provider or GSM devices or Hypermedia SIM Rack or Group) **b.** Select the SIM locations that you want to group under the new SIM group by checking the little boxes on the right of the SIM card list. **c.** Click on the right arrow button to enter the selected SIM cards into the SIM group.
4	Click SAVE.

Group