



# 5620 SAM SERVICE AWARE MANAGER

## **SMM GNE Driver Version 1.0.30 Guide**

3HE-11173-AAAB-TQZZA

Issue 1

September 2016

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## About this document

### Purpose

The 5620 SAM SMM Driver version 1.0.30 document provides information about the SMM driver version 1.0.30, including driver capabilities, known issues, and discovery and management instructions.

The SMM (Site Monitoring Module) is a monitoring module for wireless sites that provides energy consumption and temperature monitoring in the absence of a centralized BBU.

The driver documents are available on [OLCS](#).

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# SMM GNE Driver Version 1.0.30 Guide

## 1 SMM driver version 1.0.30

### 1.1 Driver capabilities

The following table lists SMM driver version 1.0.30 capabilities. The driver extends the management capabilities of the 5620 SAM for SMM devices in the following applicable areas.

<b>Configuration management</b>
<b>GNE profile automation:</b> The GNE profile for the SMM is automatically created when the driver is installed.
<b>Statistics management</b>
Collection and plotting of sensor stats.
<b>Fault management</b>
Support for GNE alarms on SMM equipment.

### 1.2 Closed issues

There are no closed issues to report.

### 1.3 Outstanding issues

There are no outstanding issues to report.

### 1.4 Documentation references

See the following documents for more information about the SMM:

- *LTE Site Monitoring Module (SMM) Operations, Administration and Maintenance*
- *LTE Site Monitoring Module (SMM) Installation Manual*

## 2 Discovery and management

### 2.1 SMM post-installation configuration instructions

The following instructions provide information specific to SMM device configuration and discovery. The 5620 SAM User Guide chapter "Device commissioning and management" should be consulted for full procedural details.

**Configure an SMM MIB policy (optional)**

Configure an SMM-specific MIB policy if you want to specify the polling interval for the SMM. You can use the default MIB policy in the discovery rule if a customized polling interval is not required.

1. Choose Tools→Statistics→MIB Policies from the 5620 SAM main menu. The MIB Statistics Policies form opens.
2. Click Create. The NE MIB Statistics Policy form opens.
3. Enter a Displayed Name for the policy and click Apply to save the changes.
4. Click on the MIB Entry Policies tab.
5. Select the ENTITY-SENSOR-MIB entry and click Properties. The MIB Entry Policy form opens.
6. In the Configuration panel, specify the Polling Interval and set the Administrative State to “Up”.
7. Save the changes and close the forms.

**Configure the SMM SNMP user**

The SNMP user is required for SNMP communication with the 5620 SAM and is associated with the mediation security policy. See the *SMM Commissioning Guide* for information about the password requirements.

1. Choose Administration→Security→NE User Configuration from the 5620 SAM main menu. The NE User Configuration form opens.
2. Click Create. The NE User form opens.
3. Specify the User Name and Additional ID. In the Access panel, enable SNMP.
4. Click on the SNMPv3 tab.
5. Set the Authentication Protocol to “SHA”, the Privacy Protocol to “DES”, and specify the required passwords for privacy and authentication.
6. Save the changes and close the form.

**Configure an SNMPv3 mediation security policy**

The SNMPv3 mediation security policy is used for Read, Write, and Security Access when configuring the discovery rule for SMM management. You must associate the SNMP user with this policy.

1. Choose Administration→Mediation from the 5620 SAM main menu. The Mediation form opens.
2. Click on the Mediation Security tab.
3. Click Create. The Mediation Policy form opens.
4. Specify a Displayed Name to identify the policy and set the Security Model to “SNMP v3 (USM)”.

5. In the SNMPv3 panel, click Select and choose the SMM SNMP user.
6. Save the changes and close the form.

#### **Configure an SNMPv2 mediation security policy.**

The SNMPv2 mediation security policy is used for Trap Access when configuring the discovery rule for SMM management.

1. Choose Administration→Mediation from the 5620 SAM main menu. The Mediation form opens.
2. Click on the Mediation Security tab.
3. Click Create. The Mediation Policy form opens.
4. Specify a Displayed Name to identify the policy and set the Security Model to “SNMP v2c”.
5. In the SNMP v1/v2c panel, set the Community String to “public”.
6. Save the changes and close the form.

#### **Configure a discovery rule for SMM management**

The discovery rule contains the MIB policy (if applicable), the mediation security policies, and one or more rule elements that specify SMM board IP address(es).

1. Choose Administration→Discovery Manager from the 5620 SAM main menu. The Discovery Manager form opens.
2. In Step 1 — Specify General Attributes, specify a Description and select a Group for the SMM.
3. In Step 2 — Add the Rule Elements, click Create and specify the IP Address of an SMM board. Repeat as necessary for additional SMMs.
4. In Step 4 — Configure Mediation Security, select the SNMPv3 mediation security policy for Read, Write, and Security Access. Select the SNMPv2 mediation security policy for Trap Access.
5. In Step 6 — Configure MIB Statistics Policy, select the SMM MIB policy if required.
6. Click Finish to save the discovery rule.
7. Apply the changes in the Discovery Manager form to finalize the discovery rule changes and initiate scanning of the specified IP address(es).

## **3 Viewing SMM properties and plotting sensor values**

### **3.1 Viewing SMM board and component properties**

You can view SMM board and component properties using the following:

- SMM board—Network Element form
- SMM physical entities—Network Element form, Physical Entities tab

- SMM physical sensors—Network Element form, Physical Sensors tab

### 3.2 Plotting sensor values

See the *5620 SAM Statistics Management Guide* for more information about viewing and graphing statistics in the 5620 SAM.

You can plot the collected sensor statistics by performing the following steps:

1. Open the Network Element form for the SMM.
2. Click on the Physical Sensors tab.
3. Select a sensor type and click Properties. The Physical Sensor form opens.
4. Click on the Statistics tab.
5. Click on Plotter→New Plot. The Statistics Plotter form opens.
6. Click on the Historical Plot icon to plot statistics for the selected sensor type.

## 4 Fault management

### 4.1 SMM alarm support

The 5620 SAM automatically maps SMM alarms to the standard GNE alarms. For example, SMM alarms can be raised as “GneEquipmentAlarm” or “GneEnvironmentAlarm”. The 5620 SAM includes probable cause information from the SMM traps in the alarm record. All SMM alarms are ADAC (Automatically Detected Automatically Cleared).

### 4.2 Setting SMM sensor value thresholds

You can specify a temperature sensor value threshold for alarm raising using the statistics policy for the stat type.

1. Choose Tools→Statistics→Statistics Manager from the 5620 SAM main menu. The Statistics Manager form opens.
2. Using the Select Object Type drop-down, select Physical Sensor Stats (Physical Entity Management)→Physical Sensor Celsius Stats (Physical Entity Management).
3. Using the Statistics Type drop-down, select Statistics Policy.
4. Click Search to display the policy, select it, and click Properties. The Statistics Policy form opens.
5. Click on the Thresholds tab.
6. Specify a value for Stats Sensor Periodic Threshold (celsius).
7. Save the changes and close the forms.

## **5 SMM Management Interface cross-launch**

### **5.1 Cross-launching the SMM Management Interface from the 5620 SAM**

You can cross-launch the SMM Management Interface from the following locations in the 5620 SAM product:

- from the client GUI, by right-clicking on the SMM node and choosing Open URL
- from the 5620 SAM Wireless Supervision application Sites view, by right-clicking and choosing Launch SMM Management Interface

