

RBS Equipment

DESCRIPTION

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1 Introduction

This document describes the management model and concepts for the *RBS Equipment* part of the Managed Object Model (MOM). The document provides an understanding of how the area is modeled, including the functions related to the area and how they are managed. A Managed Area (MA) represents a group of functions and Managed Objects (MO) within the node, where each area is relatively independent of other areas.

2 Functions and Concepts

This section describes the functions and concepts that apply to operation and maintenance.

The document focuses on the handling and configuration of equipment from a MOM perspective

3 Managed Object Model

This section describes the management model defined for the *Equipment* managed area.

Note: Setting an unsupported value may affect traffic. A few MOs, parameters, counters, and value ranges may be visible in the MOM even though they are not yet supported. This is because system design considers future aspects.

For information about the managed object model concept, refer to *Managed Object Model (MOM) User Guide*.



3.1 Managed Object Overview

The RBS Equipment area represents a subset of the MOM. The MOs contained in the area are shown in Figure 1. All MOs are created by the system and are set up during autointegration.

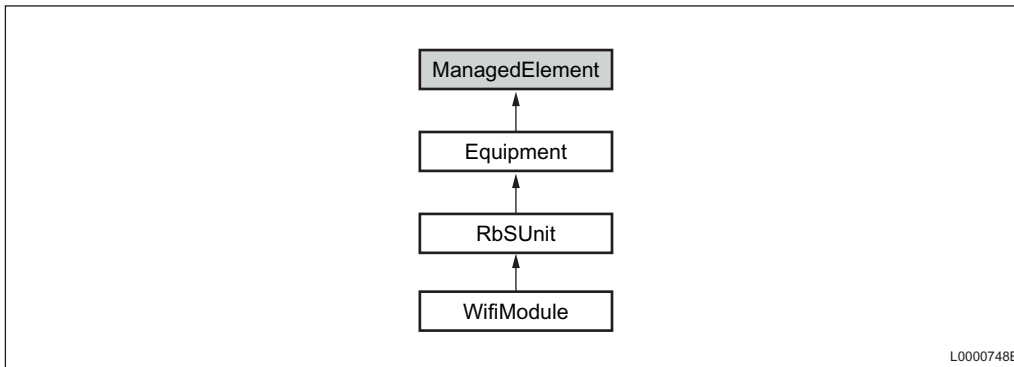


Figure 1 MO Overview for Equipment

For information about all MO classes, refer to the *Managed Object Model (MOM) RBS*.

Table 1 provides additional information that is relevant for the MO classes.

Table 1 Equipment MO Classes

MO Class	Description
<i>Equipment</i>	Equipment
<i>RbSUnit</i>	This MO models an RBS unit
<i>WifiModule</i>	This MO represents the Wi-Fi module in the RBS

4 Configuration Management

This section describes the changes and additions that can be made to the basic configuration that is set up during autointegration.

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4.1 Restarting

Use the action *restart* in the *RbsUnit* MO to restart the RBS. Refer to *Restart Node*.

This command also makes a Wi-Fi SW reset.

4.2 Resetting to Factory Settings

Use the *resetToFactory* action in the *RbsUnit* MO to reset the RBS settings.

This command also makes a Wi-Fi SW reset.

Depending on integration method, the RBS resets to the following settings:

- Integration initiated on site - Resets to factory settings.
- Zero touch integration with off-site preconfiguration - Resets to manually downloaded configuration file using the On-Site RBS Integrator (ORI).

The action resets the RBS settings and initiates a new autointegration, for example, for one of the following scenarios:

- Communication is lost between RBS and OSS-RC and must be re-established
- Recovering from incorrect or corrupted settings or software
- RBS has been moved from one site to another
- Changing radio technology for the RBS, for example, from WCDMA to LTE

Use the *resetToFactory* action in the *WifiModule* MO to reset the Wi-Fi module settings.

For more information regarding zero touch integration with off-site preconfiguration, see *Add RBS*.

For more information regarding ORI, see *Integrating RBSs On-Site Using ORI*.

4.3 Setting Administrative State of Wi-Fi Module

Traffic on the WiFi module can be stopped without interrupting other traffic on the RBS.

Set the *administrativeState* parameter in the *WifiModule* MO to `LOCKED` to stop the WiFi module.



Set the *administrativeState* parameter to UNLOCKED to start traffic on the WiFi module.

Power control of the Wi-Fi module is also done via the *administrativeState* parameter.

4.4 Wi-Fi Configuration Parameters

Wi-Fi AP power is controlled via *administrativeState*.

Wi-Fi AP cold restart is invoked using *restart*.

Wi-Fi AP factory reset is invoked using *resetToFactory*.

The Wi-Fi's VLAN ID is defined by *vlanId*. The attribute *encapsulation* will refer to this MO in case Wi-Fi is VLAN tagged. RDN is 3 for the *vlanPort* MO that defines *vlanId* for Wi-Fi.

5 Fault Management

For information about alarms, see *Alarm and Event List*.

6 Performance Management

For information about PM counters, see *Counter List*.

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