

Software Inventory Management

DESCRIPTION

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1 Introduction

This document provides an overview of the management model and concepts associated with the Software Inventory Management managed area.

A managed area is represented by a group of Managed Object Classes (MOCs) within the Managed Object Model (MOM).





2 Functions and Concepts

Software Inventory Management provides a management interface to view the software installed on the Managed Element (ME).

Software is organized into software domains. A software domain is an entity possible to describe as an Ericsson product. It can actively control a subset of the services provided by an ME. An ME can consist of one or more software domains.

The ME software inventory consists of the following information:

- Software versions

A software version represents a version of a software domain. The active software version is the one that currently controls the behavior of an ME software domain. A non-active software version is present on the ME but does not influence its behavior. A software version consists of software items.

- Software items

A software item represents any kind of Ericsson software product that is present on the ME. A software item contains entities that can become pieces of executing software or a logical piece of information associated with the executing software. For example, a software item can be a Software Delivery Package (SDP). The SDP is an archive file (TAR file) with RedHat® Package Manager (RPM®) software packages and a file describing the Ericsson product data.

Both a software version and a software item have a product name, number, and revision.

The content of the software inventory is updated due to software changes resulting from backup restore, software upgrade, or software removal operations.

2.1 Types of Operation

Software Inventory Management supports the following operation:

- View software information

Lists which software versions are active or available and which software items are available on the ME. The procedure in *View Software Information* provides further details on how to perform this operation.



3 Managed Object Model

The Software Inventory Management managed area is represented in the *Managed Object Model (MOM)* as follows:

```
ManagedElement
+-SystemFunctions
+-SwInventory
+-SwItem
+-SwVersion
```

For general information about the MOM, MOCs, Managed Objects (MOs), cardinality, and related concepts, refer to *Managed Object Model User Guide*.

The Software Inventory Management MOCs are described in Table 1.

Table 1 Software Inventory Management Managed Object Class Descriptions

Managed Object Class	Description
<i>SwInventory</i>	The root of the Software Inventory Management model. Indicates which software versions are active on the ME.
<i>SwItem</i>	Describes the software items presented on the ME. Each <i>SwItem</i> MO is described by <i>administrativeData</i> , which identifies the corresponding product.
<i>SwVersion</i>	Describes the software versions presented on the ME. Each <i>SwVersion</i> MO is described by <i>administrativeData</i> , which identifies the corresponding product.





4 Configuration Management

Software Inventory Management is accessed using NETCONF or the Ericsson Command-Line Interface (ECLI) to manipulate the Management Information Base (MIB).

The following operation can be performed by the user and is described in an Operating Instruction using the ECLI:

- *View Software Information*