

# Software Inventory Management

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## 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*