

# Configuring SS7 System Components

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## OPERATING INSTRUCTION

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# 1 Overview

## 1.1 Description

The system components are the CP, ECM, MM and OAM stack modules, and Signaling Manager itself. They are all support components that manages the processes and modules in the HD stack architecture. The primary configuration settings that must be done for these components are to specify which processes hosts should run and which modules the processes should use. All these tasks are described in this document.

## 1.2 Prerequisites

The document is intended for SS7 CAF applications.

### 1.2.1 Documents

Not applicable.

### 1.2.2 Tools

Not applicable.

### 1.2.3 Conditions

To be able to edit the System Components configuration, **Signaling Manager** tool must be run and **Expert Mode** must be set in the Tools menu. It is recommended to use template configuration \*.cim files when configuring system components, unless a configuration file for the node has already been created.

There are several templates available:

example\_double.cim - contains configuration with SCTP FEs and SS7 BEs;

example\_double\_sctp.cim - contains configuration with SCTP FEs only.

To set template configuration from \*.cim file:

1. Set **Initial** in "Tools->Configuration mode".
2. Choose \*.cim template file in "File->New".

Location of template files is "/opt/sign/cnf\_template".





## 2 Default main object tree

Default main object tree presents in the **System Components** for both example\_double.cim and example\_double\_sctp.cim templates. The System Components instance has the following 5 instances on level below:

- CP
- ECM
- MM
- OAM
- Signaling Manager





## 3 Configuring CP

Default CP configurations are operable already. No changes are needed for both templates.

Description of CP configuration parameters may be found in **[1]**.





## 4 Configuring ECM

Default ECM configurations are operable already. No changes are needed for both templates.

Description of ECM configuration parameters may be found in **[2]**.





## 5 Configuring MM

Default MM configurations are operable already. No changes are needed for both templates.

Description of MM configuration parameters may be found in **[3]**.





## 6 Configuring OAM

Update of default OAM configuration is needed for example\_double.cim template. Remove all protocols which will not be used:

1. Find and select the protocol in "System Components->OAM->Process Types->BE/NMP->Modules".
2. Push "Delete" button on keyboard.
3. Check validation: "Edit->Validate".

Description of OAM configuration parameters may be found in **[4]**.





## 7 Stack restart

When system components reconfiguration is made then stack restart is needed:

1. Run **Process View** in Tools menu.
2. Do "Stack->Restart stack" to restart stack.





## 8 References

- [1] Common Parts Configuration File Description, 3/190 73-CAA 201 29 Uen
- [2] Execution Control Module Configuration File Description, 190 73-CAA 901 1672 Uen
- [3] Management interface R9 Configuration File Description, 190 73-CAA 201 30 Uen
- [4] OAM Configuration File Description, 5/190 73-CAA 901 791 Uen