

# Configuring the MDM Administration Cockpit

Applicable Releases:

SAP NetWeaver MDM 7.1

SAP Solution Manager 7.0 EHP1 / EHP2

SAP Solution Manager 7.1

IT Practice / Topic Area:  
Information Management

IT Scenario / Capability:  
SAP NetWeaver Master Data Management

Version 1.2

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## Document History

<b>Document Version</b>	<b>Description</b>
1.2	Guide updated for SAP Solution Manager 7.1
1.1	References to SAP Notes added
1.0	First official release of this guide

## Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Cross-references to other documentation
<b>Example text</b>	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
<b>Example text</b>	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

## Icons

Icon	Description
	Caution
	Note or Important
	Example
	Recommendation or Tip

## Table of Contents

<b>1.</b>	<b>Business Scenario .....</b>	<b>1</b>
<b>2.</b>	<b>Background Information .....</b>	<b>1</b>
<b>3.</b>	<b>Prerequisites.....</b>	<b>3</b>
<b>4.</b>	<b>Step-by-Step Procedure .....</b>	<b>5</b>
4.1	Service Activation .....	5
4.2	Authorization Assignment.....	5
4.3	Landscape Maintenance .....	6
4.3.1	SMSY Configuration for Solution Manager 7.0 EHP1 .....	6
4.3.2	SMSY Configuration for Solution Manager 7.0 EHP2 .....	10
4.3.3	Maintain the Technical MDM System in LMDB (for Solution Manager 7.1)...	13
4.4	User Management on MDM Servers .....	16
4.5	Trusted Connection Configuration on MDM Server.....	17
4.6	Trusted Connection Configuration on MDM Repositories.....	18
<b>5.</b>	<b>Appendix.....</b>	<b>19</b>

## 1. Business Scenario

You are a system administrator who is not familiar with the MDM Console; however MDM (Master Data Management) maintenance tasks are part of your daily business. You can perform these tasks with the Solution Manager which enables you to control many different systems from one program.

## 2. Background Information

The Solution Manager is considered as a central administration tool for a SAP system landscape because the following central tasks are combined in one central tool:

- System Landscape definition (SLD, SMSY)
- System Monitoring
- Root Cause Analysis
- System Administration via Work Centers
- Alert Management

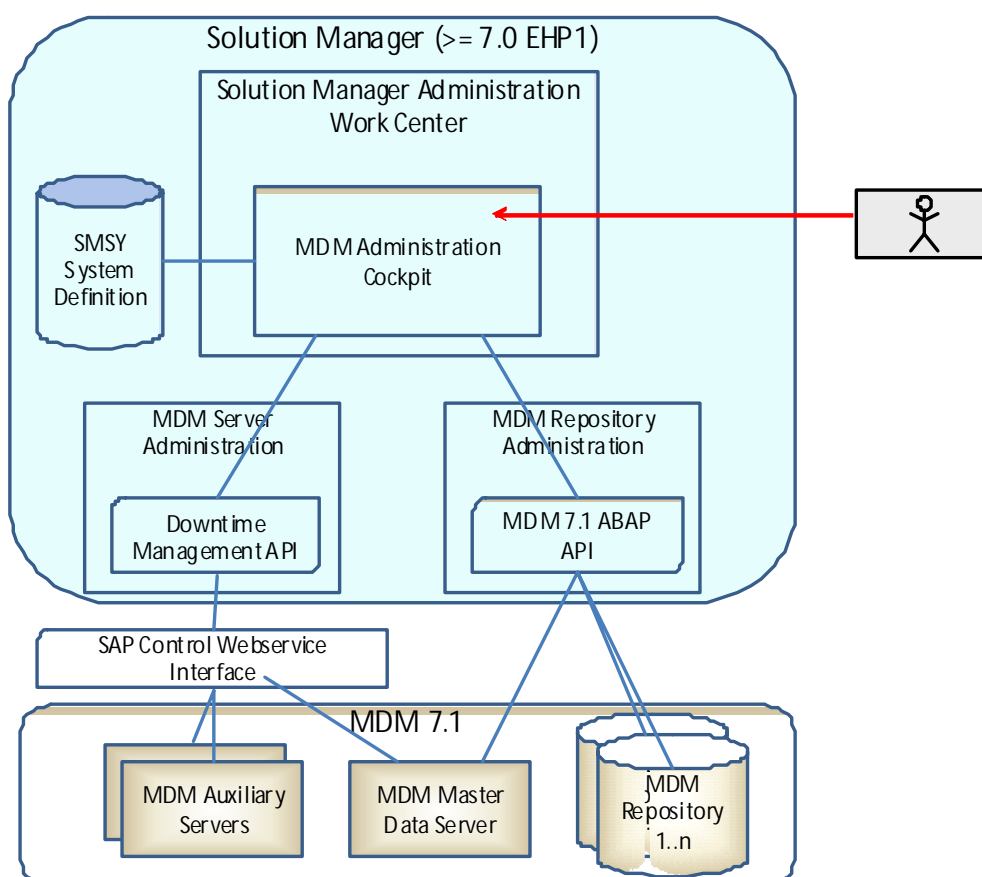
Work Centers in SAP Solution Manager make navigation through central role-based access points easier. They combine different administrative, support and operative tasks in one generic User Interface. The Work Centers are located in the ABAP Stack of the Solution Manager.

As of SAP NetWeaver Master Data Management (MDM) 7.1 and Solution Manager 7.0 EHP1, central administration of MDM servers and MDM repositories is possible. The *MDM Administration Cockpit* is embedded in the *Solution Manager System Administration Work Center*. The System Administration Work Center provides a list of all SAP systems which are defined in the Solution Manager System Landscape. For SAP Systems with MDM components, a link to the MDM Administration Cockpit is offered in the details view.

The MDM Administration Cockpit offers the most important functions for a central system administrator. These functions are only a subset of the functions that are available in the MDM Console. The MDM Console provides the complete set of functions for data modeling and specific MDM administration tasks (for example, master/slave maintenance).

The MDM Administration Cockpit allows mainly the following basic administration tasks for maintaining your MDM system landscape:

- Server maintenance
  - Display status of MDM servers
  - Start MDM server
  - Stop MDM server
- MDM repository maintenance
  - Display status of MDM repositories
  - Load / unload MDM repository
  - Archive repository
  - Verify repository
  - Repair repository



**Figure: MDM Administration Cockpit: Component Overview**

The MDM Administration Cockpit is an ABAP Web Dynpro Application that gives an overview of the selected MDM system. The Cockpit gets the MDM system definition from the system landscape definition in the Solution Manager (transaction `SMSY`) and displays the current status of its components.

The status of the servers and the activities on the servers are controlled with Web services of the SAP Startup Framework (new MDM 7.1 installation environment).

Retrieval of the status of the repositories and the current activities being performed on them are carried out with the MDM ABAP API that connects directly to the MDM server via a trusted connection.

All activities in the MDM Administration Cockpit are controlled by an ABAP authorization object. This authorization object does not substitute the MDM repository security concept but extends it to the ABAP environment. The MDM repository role assigned to the user should allow at least the same activities that are allowed by the ABAP authorization object. Otherwise a user cannot perform the activity with the MDM Administration Cockpit.

 **Note**

For more information about the security of an MDM repository, see the *MDM 7.1 – Console Reference Guide*.

### 3. Prerequisites

To use the MDM Administration Cockpit, you need the following components:

- SAP Notes for Solution Manager 7.0 EHP1:

<b>SAP Note Number</b>	<b>Title</b>	<b>Description</b>
<a href="#">1270045</a>	Disable Logical Port Modification	Disable modification of logical port parameters if logical port already exists, thus avoiding MDM Administration Cockpit role extension to delete RFC destination
<a href="#">1278029</a>	MDM SolMan Admin Cockpit cannot retrieve status of MDM Host	This note refers to naming conventions regarding the MDM hostname. If you use special characters for the MDM Host name, the MDM Administration Cockpit might not be able to handle it.
<a href="#">1278483</a>	CCMS connection – automatic system name retrieval during analysis	Describes how to automatically retrieve the MDM system name from the CCMS tree on start of the MDM Administration cockpit – valid only with MDM 7.1.01 or later.
<a href="#">1278740</a>	Error when starting MDM Administration Cockpit with MDM 5.5	Checking of MDM System version. Checking of SMSY convention and send the appropriate error message.
<a href="#">1279952</a>	Cockpit exception handling improvements	Describes how to display missing details of error message if exception occurs during retrieving status of auxiliary servers or during component retrieval.
<a href="#">1300798</a>	Cannot start the MDM Administration Cockpit with Solution Manager 7.0 SP18 (EHP1)	Describes how to add the missing customization to the delivery.
<a href="#">1302110</a>	MDM_TECH 700_710: SP00 – SP01: incorrect MDM Cockpit settings	Describes the issue of upgrading the version of MDM_TECH after having updated the MDM server.
<a href="#">1286796</a>	Miscellaneous SP19 corrections	Contains extended check and code inspector error corrections of low priority.
<a href="#">1319391</a>	Inconsistent status after exception in rep. selection	Corrects a minor inconsistency in displayed status in the work list and in the details views under certain circumstances



<a href="#">1334538</a>	SP20 miscellaneous corrections for MDM Admin Cockpit	Corrects minor errors concerning usability of the MDM Administration Cockpit.
<a href="#">1354745</a>	Capital hostnames are configured in small letters in SMSY	Allows you to configure your SMSY server names in capital or small letters without respecting the real physical hostname.
<a href="#">1364110</a>	MDM Admin Cockpit EHP2 Limitations	Describes some limitations in the usage of the MDM Administration Cockpit released with SolMan ST400 EHP2

- MDM 7.1 (installed on the maintained MDM host):

 **Note**

For more information refer to *MDM 7.1 – Installation Guide: <Platform>* and *MDM 7.1 – Upgrade Guide* on SAP Service Marketplace at [service.sap.com/installMDM71](http://service.sap.com/installMDM71).

 **CAUTION**

The host name on which the MDM System is installed will be part of each MDM instance name. To be able to administrate the MDM instances with the MDM Administration Cockpit, the following special characters are not allowed in the hostname: “-“ or “.” or “\_” (refer to SAP Note 1278029 *MDM SolMan Admin Cockpit cannot retrieve status of MDM Host*).

With Solution Manager EHP1 SP19, this limitation is corrected.

- Solution Manager 7.0 EHP1 or higher or SAP Solution Manager 7.1  
The MDM Administration Cockpit is delivered with the Solution Manager.

 **Note**

For more information about Solution Manager 7.0 EHP1 / EHP2 installation, refer to SAP Service Marketplace at [service.sap.com/instguides](http://service.sap.com/instguides) → *SAP Solution Manager*.

SAP Notes 1278483, 1278740, 1279952, 1300798, 1302110, and 1286796.

SAP Notes 1319391 and 334538 are delivered with Solution Manager 7.0 SP20.

SAP Note 1354745 is delivered with Solution Manager 7.0 SP 21.

All limitations referred to in SAP Note 1278029 are corrected with Solution Manager 7.0 SP19.

- MDM ABAP API Add-On: *MDM TECHNOLOGY 7.10 700* for MDM 7.1 and SAP NetWeaver 7.00.

The ABAP API Add-On needs to be deployed on the Solution Manager system. You do not need to configure the MDM ABAP API (transaction `MDMAPIC`) or configure the RFC connections (transaction `SM59`). This will be automatically performed by the MDM Administration Cockpit and by the ABAP API itself. For data consistency reasons, no entry of the `MDMAPIC` elements is automatically deleted by the MDM Administration Cockpit.

 **CAUTION**

Make sure that your MDM TECHNOLOGY version is correct for your current MDM system version (refer to SAP Note [1302110](#)).

 **Note**

For more information about MDM 7.1 ABAP API deployment, refer to the *MDM 7.1 - ABAP API Guide* on SAP Service Marketplace at [service.sap.com/installMDM71](http://service.sap.com/installMDM71).

## 4. Step-by-Step Procedure

Before you can work with the MDM Administration Cockpit, you need to perform the following setup and configuration steps on the Solution Manager system, on hosts of the MDM servers, on the Master Data server, and on the MDM repositories:

1. `mdm_admin_cockpit` service activation
2. Authorization management on the Solution Manager
3. SMSY configuration
4. User and authorization management for the MDM Server and the MDM Auxiliary Servers
5. Trusted connection configuration on the MDM Server
6. Trusted connection configuration on MDM repositories

The following sections explain the procedure for each step in more details.

### 4.1 Service Activation

You have performed the customizing activity *Activate Solution Manager Services* in the SAP Solution Manager customizing, under ► *Configuration* → *Basic Settings* → *Solution Manager* → *HTTP Services* → *Activate Solution Manager Services*.

### 4.2 Authorization Assignment

Several levels of authorization should be considered within the context of the MDM Administration Cockpit. This is due to the fact that the Solution Manager (SOLMAN) user is not the same as the MDM user and is also not the same as the operating system user (users on the hosts of each MDM server). In the Solution Manager system, the activities of the MDM Administration Cockpit are controlled by the ABAP authorization object *MDM\_ADMIN*.

The following delivered roles with predefined profiles and additional necessary authorizations can be assigned to the Solution Manager user:

1. *SAP\_SM\_ADMIN\_COMPONENT\_DIS*: Very restricted permissions. The user is not allowed to perform any operation on MDM components.
2. *SAP\_SM\_ADMIN\_COMPONENT\_EXE*: The user is allowed to perform basic repository activities: load, archive and verify-check.
3. *SAP\_SM\_ADMIN\_COMPONENT\_ALL*: The user is allowed to perform all offered repository and server operations.

Additional roles with other combinations of activities may also be defined.

#### Tip

Note that with the authorization object *MDM\_ADMIN*, it is only possible to allow starting and stopping of the MDM Auxiliary Servers.

The MDM Administration Cockpit offers links to other applications to analyze and manage MDM components, for example links to Root Cause Analysis, Alert Management, Downtime Management and the DBA Cockpit. Note that the SOLMAN user should have additional roles or authorizations that allow access and manipulation through these applications. For example, to get the link to the DBA Cockpit, the role of the MDM administration user should be extended with the activity *STOR* of the authorization object *S\_ADMI\_FCD*.

The roles with necessary authorizations have to be assigned to the MDM Administration Cockpit users.

 Note

For more details on role definition and assignment refer to the *Security Guide SAP Solution Manager on SAP Service Marketplace* at [service.sap.com/instguides](http://service.sap.com/instguides) → *SAP Components* → *SAP Solution Manager*. Also refer to the *AGS User Administration Guide on SAP Service Marketplace* at [service.sap.com/diagnostics](http://service.sap.com/diagnostics).

## 4.3 Landscape Maintenance

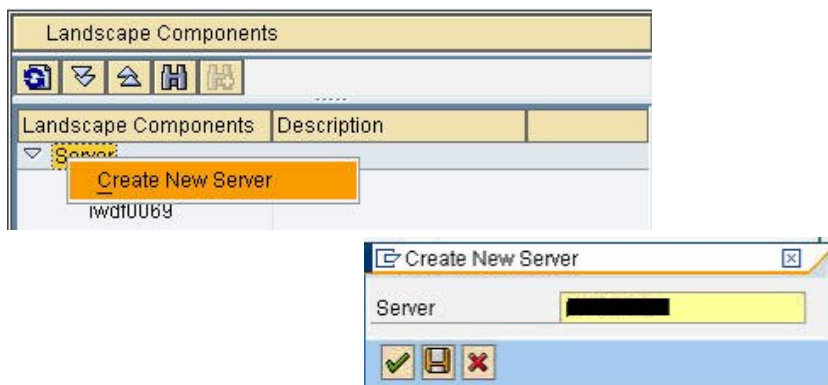
The landscape maintenance of an MDM Systems depends on the SAP Solution Manager version you use:

- **Solution Manager 7.0 EHP1 (for MDM 7.1):** SMSY configuration of an MDM system should take place as described below in option 1.
- **Solution Manager 7.0 EHP2 (for MDM 7.1):** SMSY configuration according to option 1 or option 2. Option 2 is recommended due to compatibility with SMD and possibility of usage of the technical system wizard for a part of the configuration.
- **Solution Manager 7.1 (for MDM 7.1):** The system needs to be maintained in the Technical System Editor. Please refer to section 4.3.3

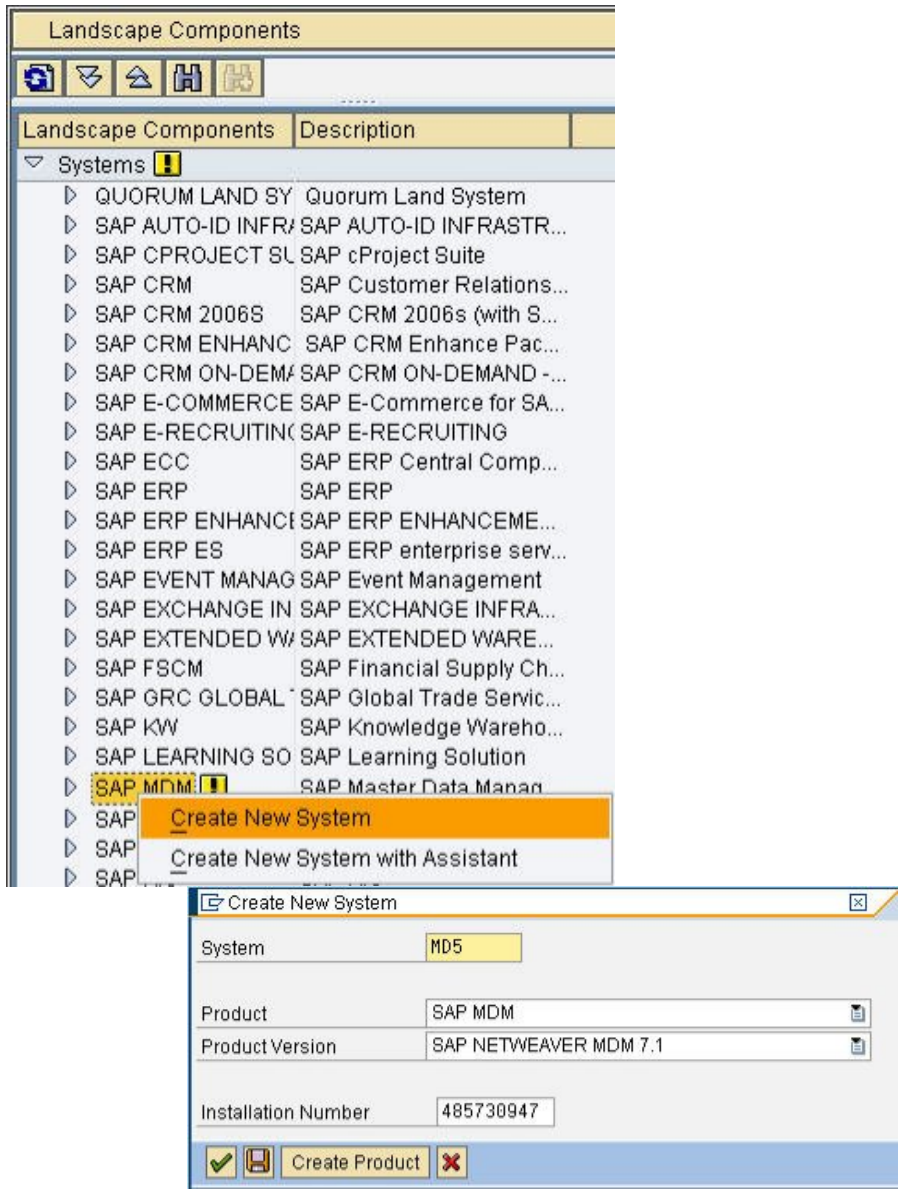
### 4.3.1 SMSY Configuration for Solution Manager 7.0 EHP1

You have to perform the SMSY configuration for MDM 7.1 **manually** in the Solution Manager system. The following steps are necessary to define an MDM 7.1 system or an SAP system with MDM 7.1 components.

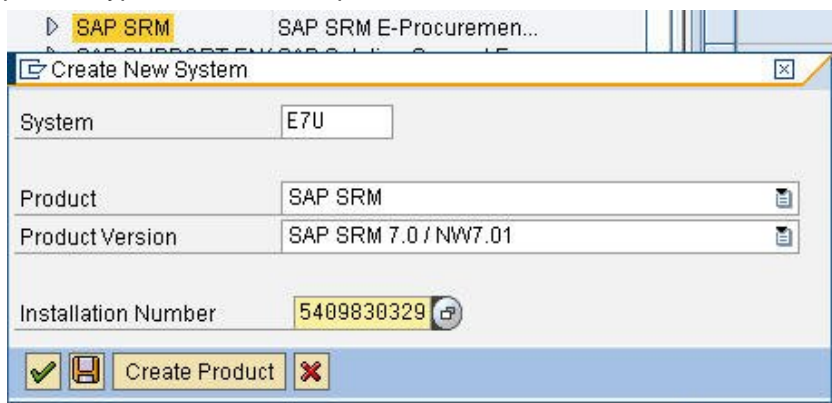
1. Call transaction *SMSY* in the ABAP stack of the Solution Manager system.
2. Define the physical host where the MDM system (MDM servers) is running.
3. In the *landscape components* area, click on *Server* and create a new (MDM) server. Server name is <MDMhostname>.



- Define the MDM system: In the area *Landscape Components*, open the tree in the *Systems* folder. Create a new system of product type *SAP MDM* with Product version: *SAP NETWEAVER MDM 7.1*. We recommend that you choose the system ID *<SID>* as system name.



If an SRM system contains MDM Catalog Management Systems, create a new system of product type *SAP SRM* and product version *SAP SRM 7.0/NW7.01*.



- In the *Selection of Main Instances* tab page, select the *Master Data Server* checkbox in the *Relevant* column.

Main Instance	DB Instan	ABAP Inst	Relevant	Also Instal	System C	System	Type	Extended Assignment of
ABAP API	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
ABAP API for NW 7.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Administration Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Business Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
COM API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Change Tracker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Configuration Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
DOTNET API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Data Management Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Enrichment Controller 7.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Import Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Import Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
JAVA API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Layout Server	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Adapter 7.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Adapter 7.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Master Data Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Portal Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Publication Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Syndication Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Syndication Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Web Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Web Services 7.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
XI Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Double click the *Master Data Server* main instance and define the instance of the master data server in the *List of Instances* column. Use the following naming convention: **<MDMhostname>\_<SID>\_<InstanceNumber>**.

**Important**

**<instanceNumber>** should have two characters even if it is less than 10.

Instance	Server

If your MDM system also contains auxiliary servers, perform the same steps as for the *Master Data Server*. Choose the main instances: *Import Server*, *Syndication Server* and *Layout Server*.



For an SRM system, select the main instance: *MDM Import Server* and *MDM Server* as *Relevant* and insert the *list of instances* by double clicking on the *Main Instance*.

System: E7U Saved  
Product Version: SAP SRM 7.0 / NW7.01

Header Data | Selection of Main Instances | System Data in SAP Support Portal | Other Attributes

Create System Component

Relevant Main Instances for this System Installation

Main Instance	DB Instan	ABAP Inst	Relevant	Also Instal	System C.	System	Type	Extended Assignment of
BI Content	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Catalog Content Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM ABAP API	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
SAP cProject Suite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
SRM Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Business Content Repository	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
CCM with SRM-MDM Catalog	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
LAC WPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Administration Client	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Change Tracker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Content handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Import Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Import UI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM JAVA API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM technical configuration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Portal Content MDM Catalog	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Portal Content SRM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Portal Content Supplier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
SRM Java	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
SRM Supplier Java	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
TREX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
XI Content	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Important

If the Catalog Content Management System is installed as a standalone MDM 7.1 system, use the <SID> of the corresponding MDM system to define the instances.

System: E7U Saved  
Product Version: SAP SRM 7.0 / NW7.01  
Main Instance: MDM Import Server

Header Data | Instances | Other Attributes

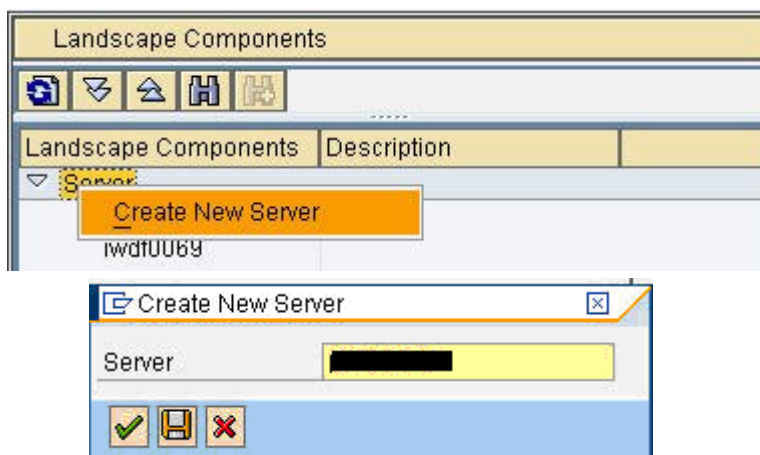
List of Instances

Instance	Server
..._MD2_02	...
..._MDM_04	...

### 4.3.2 SMSY Configuration for Solution Manager 7.0 EHP2

You have to perform the SMSY configuration for an MDM system **manually** in the Solution Manager system. The following steps are necessary to define an MDM system or an SAP system with MDM 7.1 or higher components.

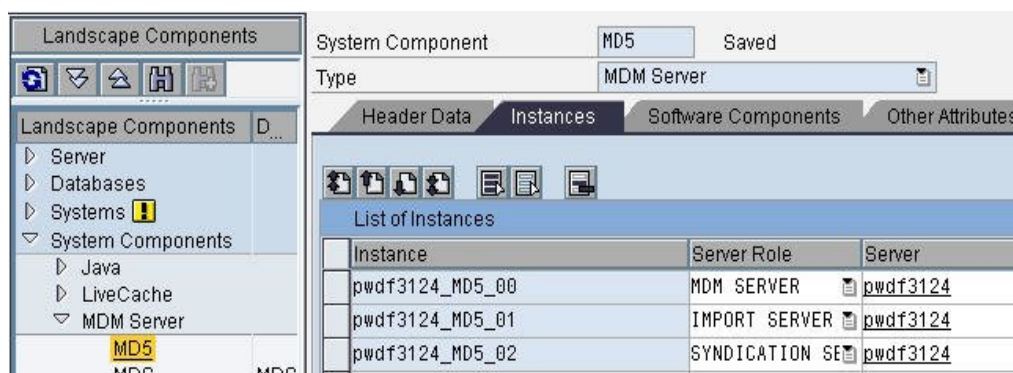
1. Call transaction `SMSY` in the ABAP stack of the Solution Manager system.
2. Define the physical host where the MDM system (MDM servers) is running.
3. In the *landscape components* area, click on *Server* and create a new (MDM) server. Server name is `<MDMhostname>`.



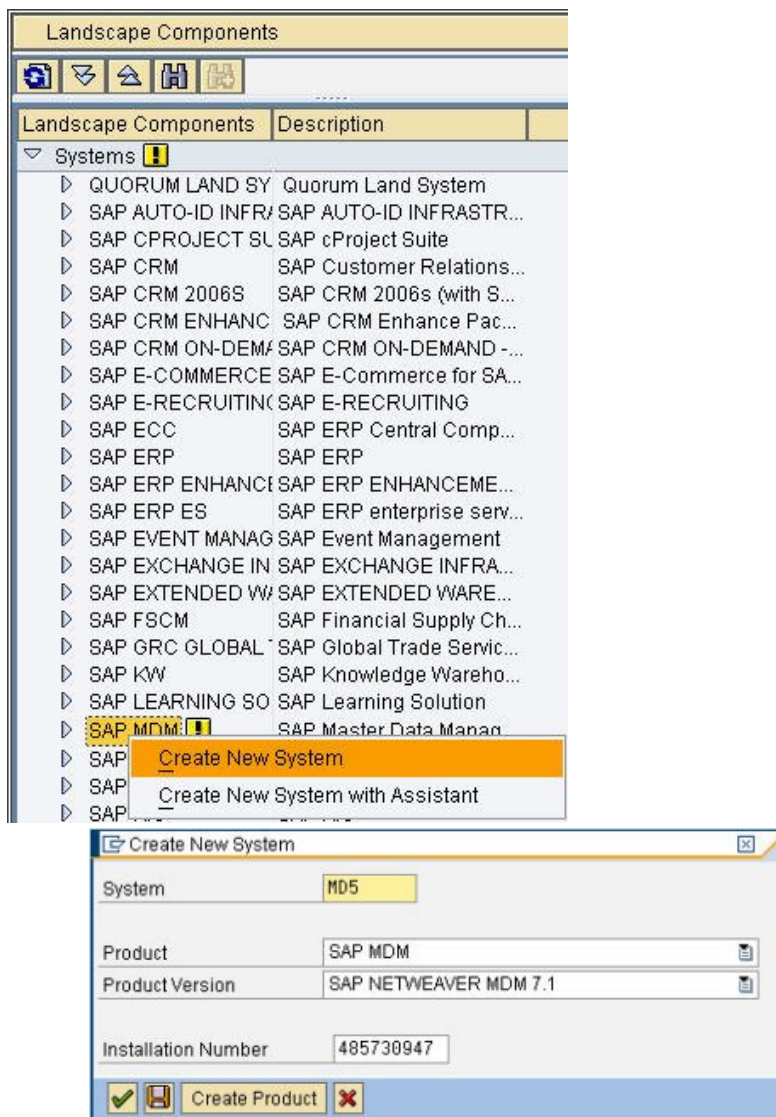
4. Define a System component: In the *landscape components* area, click on *System Components* and create a new *MDM Server*. It is recommended to take the SID of the MDM system as name for the system component.
5. Define the list of instances of the MDM system in the tab *Instances*. Use the following naming convention: `<MDMhostname>_<SID>_<InstanceNumber>` if you perform this step manually..

**Important**

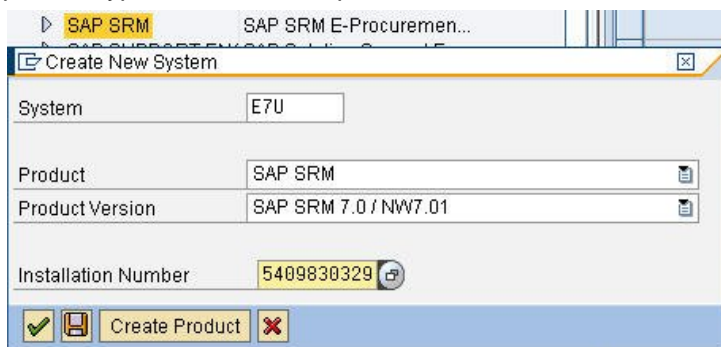
`<instanceNumber>` should have two characters even if it is less than 10.



- Define the MDM system: In the area *Landscape Components*, open the tree in the *Systems* folder. Create **manually** a new system of product type *SAP MDM* with Product version: *SAP NETWEAVER MDM 7.1*. We recommend that you choose the system ID *<SID>* as system name.



If an SRM system contains MDM Catalog Management Systems, create a new system of product type *SAP SRM* and product version *SAP SRM 7.0/NW7.01*.





- In the *Selection of Main Instances* tab page, select the *Master Data Server* checkbox in the *Relevant* column. Refer to the created system component by checking the box and assigning the corresponding system component.

**System: MD5 - Change - SAP Solution Manager**

System: MD5 Saved  
Product Version: SAP NETWEAVER MDM 7.1

Header Data | Selection of Main Instances | System Data in SAP Support Portal | Other Attributes

Create System Component

Relevant Main Instances for this System Installation

Main Instance	DB Instan	ABAP Inst	Relevant	Also Instal	System C...	System...	Type	Ext
ABAP API	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
ABAP API for NW 6.40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
ABAP API for NW 7.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Administration Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Business Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
COM API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Change Tracker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Configuration Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
DOTNET API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Data Management Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Enrichment Controller 7.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Import Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Import Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MD5	MDM Serv	
JAVA API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Layout Server	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Adapter 7.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Adapter 7.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Master Data Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MD5	MDM Serv	
Portal Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Publication Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Syndication Clients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Syndication Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MD5	MDM Serv	

For an SRM System with more than one catalog management, use the *Extended assignment* property to assign more than one system component.

**System: E7U - Change - SAP Solution Manager**

System: E7U  
Product Version: SAP SRM 7.0 / NW7.01  
Main Instance: MDM Import Server  
System Component: MD2  
Type: MDM Server

Change Assigned System Components

Assigned System Components

System Component	Type
MD5	MDM Server

Relevant Main Instances

Main Instance	DB Instan	ABAP Inst	Relevant	Also Instal	System C...	System...	Type	Ext
BI Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM ABAP API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
SAP cProject Suite	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
SRM Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Business Content Reposit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
CCM with SRM-MDM Catal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
ESR content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
LAC WPS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Administration Client	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Change Tracker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Content handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Import Server	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MD2	MDM Serv	Count: 1
MDM Import UI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM JAVA API	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
MDM Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MD2	MDM Serv	Count: 1

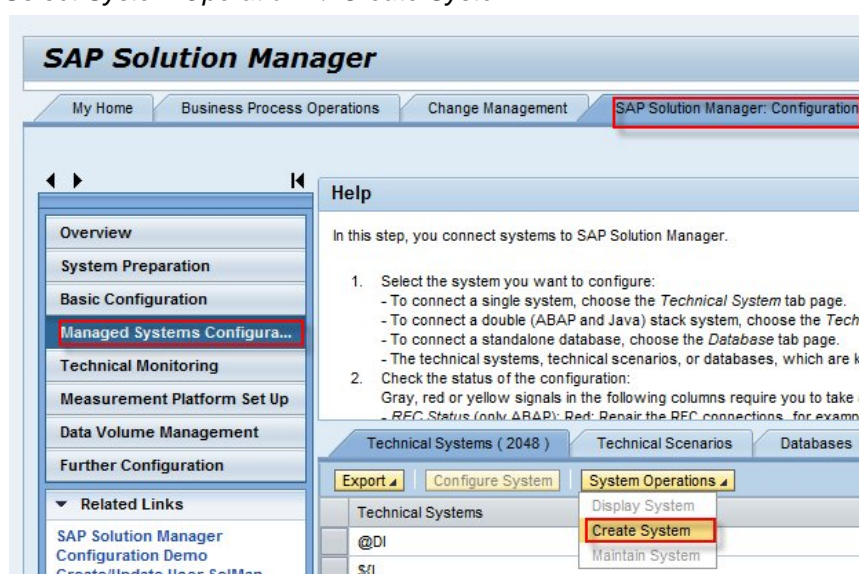
 Note

For more information about the SMSY configuration, refer to the Solution Manager configuration guide on SAP Service Marketplace at [service.sap.com/instguides](http://service.sap.com/instguides) → *SAP Components* → *SAP Solution Manager* → *Release 7.0 EHP 2*.

### 4.3.3 Maintain the Technical MDM System in LMDB (for Solution Manager 7.1)

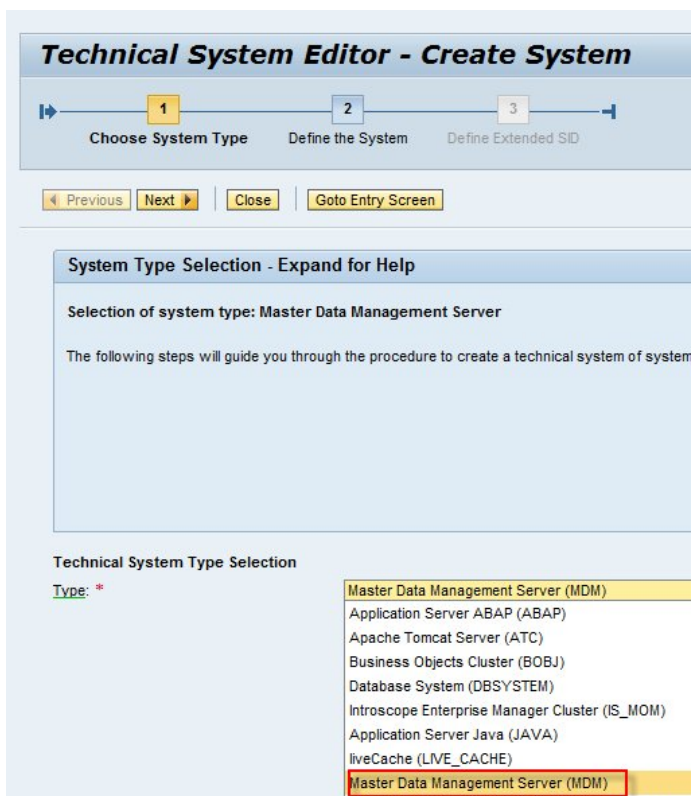
If you work with SAP Solution Manager 7.1, you must maintain the technical system of type MDM in LMDB. Refer to the following steps:

1. Open *SAP Solution Manager Configuration Work Center*.
2. Select *Managed System Configuration*.
3. Select *System Operation* → *Create System*.

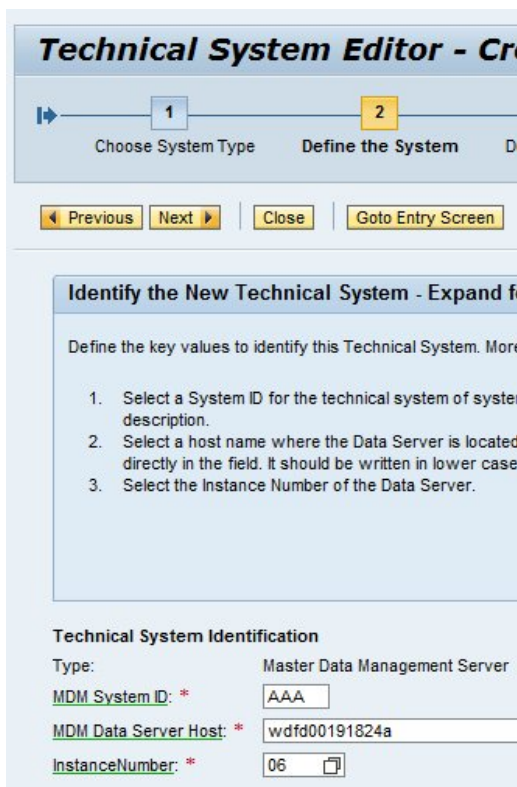


4. Select *Technical System Type Master Data Management Server (MDM)*.

5. Select Next.



6. Enter the System ID of your MDM Server into field *MDM System ID*.
7. Enter the MDM server host name and the instance number of the Master Data Server.
8. Select *Next*.
9. Select *Save*.



10. Enter a description
11. Enter 7.1 as the version.

**Technical System Information**

System ID: **AAA**

Name: AAA on wdfd00191824a (06)

Extended System ID: \*

Description:

Version:

12. Select *Next*.
13. Select *Add*.
14. Add the product instance SAP NETWEAVER MDM 7.1: Master Data Server.
15. Depending on which MDM server types are installed in your system, add some or all of the following product instances:
  - SAP NETWEAVER MDM 7.1: Import Server
  - SAP NETWEAVER MDM 7.1: Syndication Server
  - SAP NETWEAVER MDM 7.1: Layout Server

Product Instances		Software Component Versions	
<b>Assigned Product Instances</b>			
<input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Set Flags"/> <input type="button" value="Repository Information"/> <input type="button" value="Details"/>			
Product Instance	Installed	Diagnostics Relevant	
SAP NETWEAVER MDM 7.1: Import Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SAP NETWEAVER MDM 7.1: Master Data Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SAP NETWEAVER MDM 7.1: Syndication Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

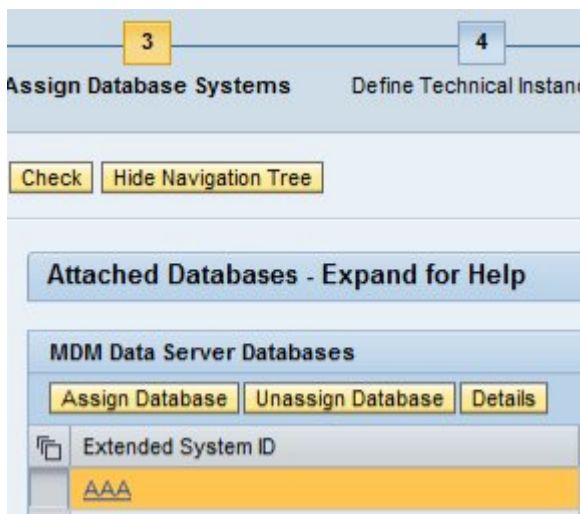
16. For each product instance, select the Installed attribute for the relevant software component version:
  - MDM SERVER 7.1
  - MDM IMPORT SERVER 7.1
  - MDM LAYOUT SERVER 7.1
  - MDM SYNDICATION SERVER 7.1

Product Instances		Software Component Versions	
<b>Assigned Product Instances</b>			
<input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Set Flags"/> <input type="button" value="Repository Information"/> <input type="button" value="Details"/>			
Product Instance	Installed	Diagnostics R	
SAP NETWEAVER MDM 7.1: Import Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SAP NETWEAVER MDM 7.1: Layout Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SAP NETWEAVER MDM 7.1: Master Data Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SAP NETWEAVER MDM 7.1: Syndication Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Software Component Versions of Selected Product Instances</b>			
View: [Standard View] <input type="button" value="Set Flags"/> <input type="button" value="Repository Information"/> <input type="button" value="Details"/>			
Software Component Version	Installed	Installation Type	
MDM INSTALLATION MASTER 7.1	<input type="checkbox"/>	Installed on Instance	
MDM SERVER 7.1	<input checked="" type="checkbox"/>	Installed on Instance	
MDM SHARED INSTALL CONTENT 7.1	<input type="checkbox"/>	Installed on Instance	

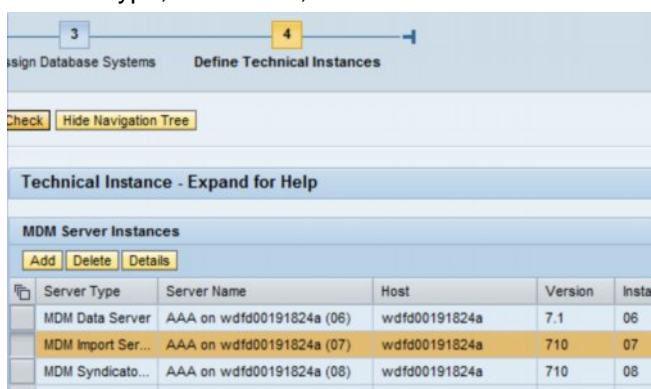
17. Select *Next*.



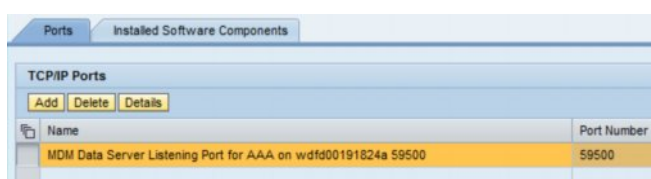
18. Add the database(s) used by the MDM system.
19. Select *Next*.



20. Add the technical instances of your MDM system. For each instance type you need to enter the instance type, host name, and instance number.



21. Add the TCP/IP port of the Master Data Server/
22. Select *Save*.



## 4.4 User Management on MDM Servers

You have created an operating system (OS) user with a password on each host, where the MDM servers are running. This OS user has been added to a user group that has sufficient authorizations to start or stop MDM servers.

### Note

For more information, refer to the *MDM 7.1 Installation Guide: <Platform>* on SAP Service Marketplace at [service.sap.com/installMDM71](http://service.sap.com/installMDM71).

## 4.5 Trusted Connection Configuration on MDM Server

The MDM Server is configured so that a trusted connection can run between the ABAP API installed besides the MDM Administration Cockpit and the MDM server. This configuration is done in the MDM configuration file `mds.ini`.

With the introduction of asynchronous function execution with Solution Manager 7.0 EHP2, the load balancing property of the ABAP application server group is used. The extension of the `SAP RFC Gateways` entries in the `mds.ini` file may have to be extended to embed all gateways of all Application Servers within a group.

1. Define SAP Gateways: For the Solution Manager SAP Gateway, enter a value in parameter: "SAP RFC Gateways=", separated by a comma ", ".

### Important

Use the following format:

```
SAP RFC Gateways=<GW Host>:<GW Service>
```

or alternatively

```
GWHOST=<GW Host> GWSERV=<GW Service>[, ...]
```

### Example

```
SAP RFC Gateways= host1.wdf.sap.corp:sapgw21, host2:33350
GWHOST=host3.wdf.sap.corp GWSERV=3345
```

2. Define Trusted Systems: For the Solution Manager system to be trusted by the MDM server, enter a value in parameter "Trusted SAP Systems=".

### Important

Use the following format:

```
Trusted SAP Systems=
[<sysId>[:<partnerHostname>]][, <sysId>[:<partnerHostname>]]
```

### Example

```
Trusted SAP Systems= SID:host4, XYZ, X01, Y02, AAA
```

3. You have to stop and restart the Master Data Server to activate the trusted connection access of the MDM ABAP API from the Solution Manager system with the trusted connection.

### Note

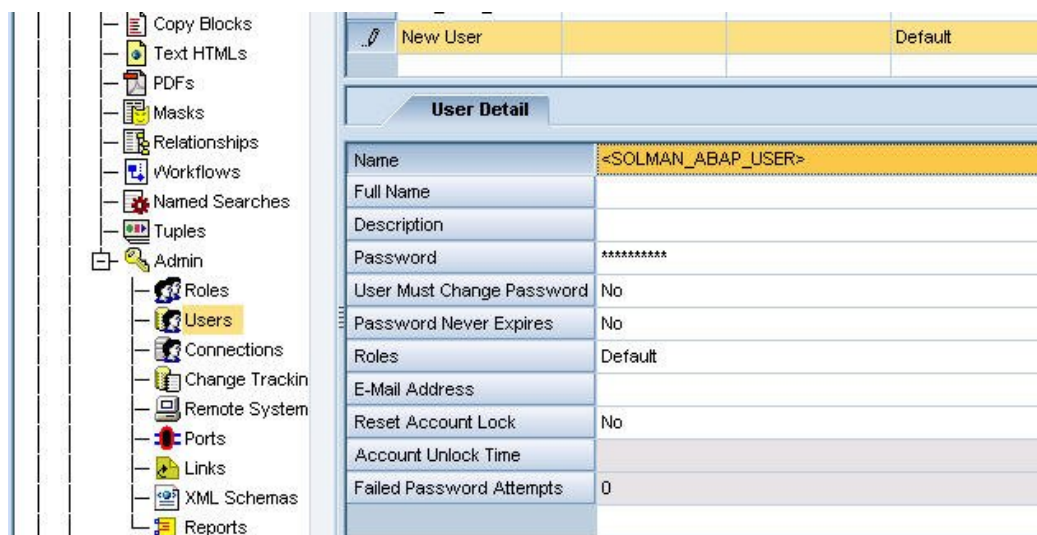
As of MDM 7.1 SP03, a restart of the server is not required.

### Note

For more information on trusted connection configuration, refer to the MDM 7.1 - *ABAP API Guide* on SAP Service Marketplace at [service.sap.com/installMDM71](http://service.sap.com/installMDM71).

## 4.6 Trusted Connection Configuration on MDM Repositories

The connection from the MDM Administration Cockpit to the MDM repository is based on the “trusted connection” principle. This means that the Solution Manager user, managing an MDM repository, has to be added to the user table of the managed repository and be assigned corresponding repository authorizations.



User Detail	
Name	<SOLMAN_ABAP_USER>
Full Name	
Description	
Password	*****
User Must Change Password	No
Password Never Expires	No
Roles	Default
E-Mail Address	
Reset Account Lock	No
Account Unlock Time	
Failed Password Attempts	0

### Tip

Alternatively you can use the options provided by the connected LDAP. In this case the `mds.ini` parameters of the MDM server have to be set accordingly.

### Example

Example of LDAP configuration entries in `mds.ini`:

```
[MDM LDAP]
LDAP In Use=True
Server=<LDAP_server_IP>
Admin DN=cn=Administrator,dc=kom,dc=com
Admin Password+=4D333RUNIE9J0Q35S8EE5RG6M5
User Identifier=uid
Base DN=dc=kom,dc=com
MDM Email Attribute=mail
MDM Roles Algorithm=groupMapping
MDM Roles Attribute=employeeType
```

### Note

For more information about LDAP, refer to *MDM 7.1 - Console Reference Guide* on SAP Service Marketplace at [service.sap.com/installMDM71](http://service.sap.com/installMDM71).

## 5. Appendix

### Appendix A - Starting the MDM Administration Cockpit from the Administration Work Center

Start the MDM Administration Cockpit after you have completed the configuration.

1. Log on to the Solution Manager system.
2. Call transaction SOLMAN\_WORKCENTER.
3. Choose tab page *System Administration*.
4. Choose the *Administration Tools* button (on the left).
5. In the system selection, search for an MDM system or a system containing MDM components (for example SRM with the MDM catalog). Use the *Filter* function.
6. Select the MDM system for which you want to start the MDM Administration Cockpit.
7. Choose *Main Instances* tab page.
8. To start the MDM Administration Cockpit for the selected MDM system, choose *MDM Administration Cockpit*.

The screenshot shows the SAP Solution Manager Administration Work Center interface. The 'System Administration' tab is active. The left sidebar shows the 'Administration Tools' menu. The main area displays a table of systems. The 'Main Instances' tab is selected for the system 'MD5'. The 'MDM Administration Cockpit' tool is highlighted in the 'Product specific tools' list.

Annotations on the screenshot indicate the following steps:

- 1. Choose workcenter (points to the 'System Administration' tab)
- 2. Choose Administration Tools (points to the 'Administration Tools' menu item)
- 3. Select MDM system (points to the 'MD5' system row in the table)
- 4. Choose Main instances (points to the 'Main Instances' tab)
- 5. Start MDM ADMIN COCKPIT (points to the 'MDM Administration Cockpit' tool in the list)

System	Status	Syst. Component Type	Installation no.	System Type	Product Version	Solution
M99		ABAP, MDM Server	0020270982	Development System	SAP NETWEAVER MDM 7.1	
MAN		ABAP, MDM Server	1234567891	Development System	SAP NETWEAVER MDM 7.1	
MD5		ABAP, MDM Server	0020270982	Development System	SAP NETWEAVER MDM 7.1	
MEM		ABAP, MDM Server	5353544444	Development System	SAP NETWEAVER MDM 7.1	

Name	Technical Name	App
MDM Administration Cockpit	MDM_ADMIN_COCKPIT	MDM Administration
SOA Manager	SOLMANADMIN	Process Integration Administration ABAP
PI Integration Engine Administration	SIWMB_ADM	Process Integration Administration ABAP

#### Note

The documentation for the MDM Administration Cockpit is available in the application help (choose *Help*).

#### Note

If you cannot start the MDM Administration Cockpit, refer to instructions in SAP Note [1300798](https://support.sap.com/en/notes/1300798.html).



## Appendix B – CCMS Connectivity in SAP Solution Manager 7.0 EHP1

The MDM Administration Cockpit offers a link to Alert Management. It is also possible to go from the Alert Inbox to the MDM Administration Cockpit.

### Prerequisites

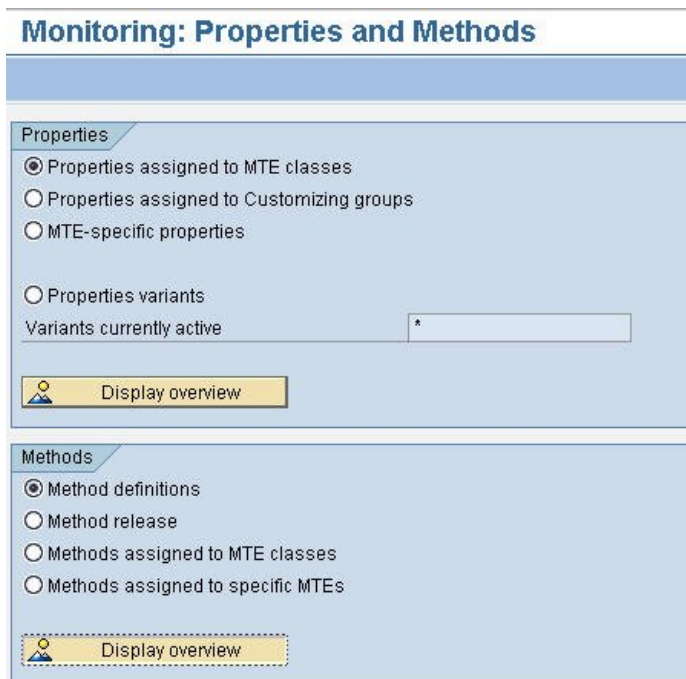
The MDM servers are connected to the CCMS (Computer Center Management System) by means of a CCMS Agent which sends a heartbeat signal to the CEN. Ideally the central CCMS system and the Solution Manager system are identical.

### Configuration

There are *Analysis Methods* provided to call the Solution Manager MDM Administration Cockpit from a CCMS monitoring element. These methods are allocated to performance attributes of the MDM hosts.

Perform the following steps to manually add parameters to the analysis methods:

1. Call transaction RZ21 on the ABAP stack of the Solution Manager system. Select *Method definitions* and *Display overview*.



2. The following analysis methods are provided to call the Solution Manager MDM Administration Cockpit from a CCMS monitoring element: MDM\_ANALYSE\_MDS, MDM\_ANALYSE\_MDIS, MDM\_ANALYSE\_MDSS, and MDM\_ANALYSE\_MDLS. For each server, type a separate method.

The screenshot shows the 'Method definition overview' table in SAP RZ21. The table has five columns: Method name, Description, Execution name, Type, and Exec. location. Several methods are listed, including MDM\_ANALYSE\_MDIS, MDM\_ANALYSE\_MDLS, MDM\_ANALYSE\_MDSS, and MDM\_ANALYSIS\_REPOSITORY. The description for MDM\_ANALYSE\_MDLS is 'MDS analyse method for [redacted]\_MD5\_00'.

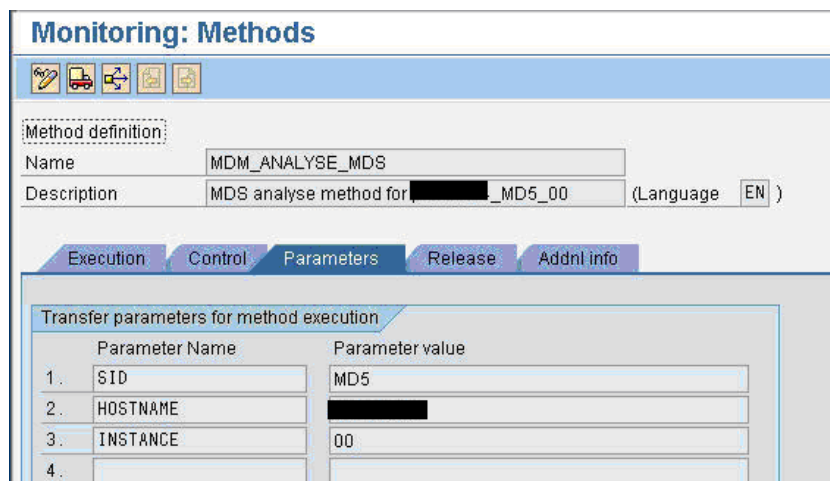
Method name	Description	Execution name	Type	Exec. location
<input type="checkbox"/> MDM_ANALYSE_MDIS		MDM_ADMIN_ANALYSE_MDIS	Function m	Any
<input type="checkbox"/> MDM_ANALYSE_MDLS		MDM_ADMIN_ANALYSE_MDLS	Function m	Any
<input type="checkbox"/> MDM_ANALYSE_MDSS		MDM_ADMIN_ANALYSE_MDSS	Function m	Any
<input type="checkbox"/> MDM_ANALYSIS_REPOSITORY		MDM_ADMIN_ANALYSE_REPOSITORY	Function m	Any
<input type="checkbox"/> MDM_[redacted]_ANALYSE_MDIS		MDM_ADMIN_ANALYSE_MDIS	Function m	Any
<input type="checkbox"/> MDM_ANALYSE_MDLS	MDS analyse method for [redacted]_MD5_00			

3. With Solution Manager 7.0 EHP1, parameters for the analysis methods have to be set manually to be able to start the MDM Administration Cockpit with the correct system.

 **Recommendation**

Copy the analysis method to specify parameters for different hosts of the same type.

Double click the analysis method and enter the following parameters in the following order: SID, HOSTNAME and INSTANCE.



**Monitoring: Methods**

Method definition:

Name: MDM\_ANALYSE\_MDS

Description: MDS analyse method for [redacted]\_MD5\_00 (Language: EN)

Execution Control **Parameters** Release Addnl info

Transfer parameters for method execution

	Parameter Name	Parameter value
1.	SID	MD5
2.	HOSTNAME	[redacted]
3.	INSTANCE	00
4.		

Do the same for MDM\_ANALYSE\_MDIS, MDM\_ANALYSE\_MDLS, and MDM\_ANALYSE\_MDSS.

 **CAUTION**

If you skip the parameter setting, the MDM Administration Cockpit will be started without specification of the application parameter *SYSTEM\_NAME*. You will get an error message from the Cockpit. No system components are displayed. Check the long text of the error message for instructions on how to proceed.

 **Note**

With MDM 7.1.01.xxx there is no need to enter the parameters of the analysis method manually. The system name is read directly by the analysis method from the CCMS tree.

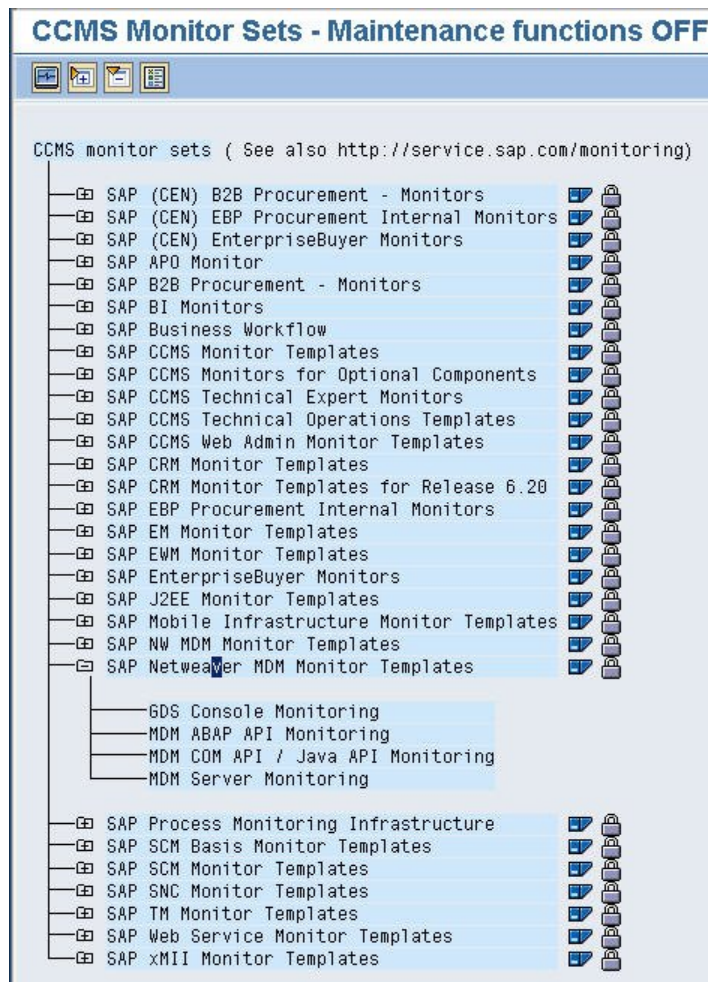
 **Note**

To avoid manual configuration of the analysis method in Solution Manager 7.0 EHP1, follow the instructions in SAP Note [1278483](https://www.sap.com/support/notes/1278483). With Solution Manager 7.0 SP19 and higher, together with MDM 7.1 SP01 and higher, manual configuration is no longer necessary.

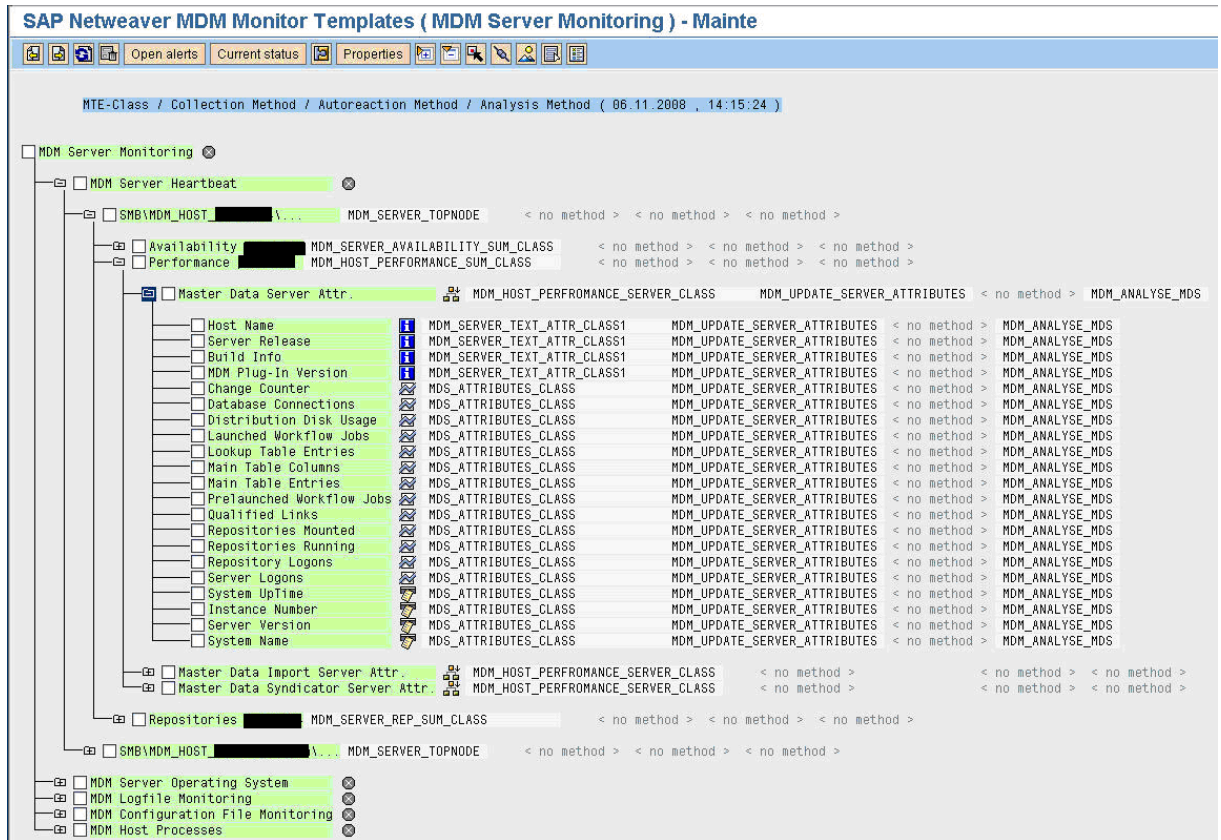
## Starting the MDM Administration Cockpit from the Alert Inbox

This procedure is carried out after configuration.

1. Call transaction RZ20 on the Solution Manager System. Under *CCMS monitor sets*, expand *SAP NetWeaver MDM Monitor Templates* and then *MDM Server Monitoring*.



- Expand *MDM Server Heartbeat* → *SMB\MDM\_HOST\_<MDM Host ID>\* → *Performance <MDM Host ID>* → *Master Data Server Attributes*. In this example, *SMB* refers to the *<SOLMAN\_SYS>* and *<MDM Host ID>* refers to the Master Data Server host. The analysis method allocation is displayed on the screen.



- Change the current View to display the *Current Status*.



- Double-click an attribute whose allocated method is the analysis method you defined in the previous steps. The MDM Administration Cockpit starts in a new browser displaying the list of components of the corresponding MDM system.

## Appendix C - The MDM Administration Cockpit at a Glance

**Component attributes**

**Application parameter: SYSTEM\_NAME**

**Application help**

**Action buttons**

**system input field with F4 help**

**MDM Central Administration**

System: MDS

**List of MDM Components**

Name	Status	Type/ODMG Type	Host/ODMG Host	Version/ODMG Version
MDS_00	Stopped	Master Data Server		SAP NETWEAVER MDM 7.1
MDS_01	Running	Import Server		SAP NETWEAVER MDM 7.1
MDS_02	Running	Syndication Server		SAP NETWEAVER MDM 7.1

**MDM Component - MDS\_00**

**Master Data Server Overview**

Status: Stopped  
 Type: Master Data Server  
 Host Name: [redacted]  
 Version: SAP NETWEAVER MDM 7.1  
 System Version: SAP NETWEAVER MDM 7.1  
 Last Action:  
 Last Action Started:

**MDM Tools**

Tool Name	Technical Name	Description
<a href="#">Alert Management</a>	MDM_VBA_FOM_ALERT_INDEX	
<a href="#">Root Cause Analysis</a>	AGS_WORKCENTER	
<a href="#">Downtime Management</a>	DSMP_DTM_MAIN	
<a href="#">DBA Cockpit</a>	DBA_COCKPIT	

**Detailed view of selected component with further attributes**

**Related links**

[www.sdn.sap.com/irj/sdn/howtoguides](http://www.sdn.sap.com/irj/sdn/howtoguides)