

# How to Integrate MDM with BI 7.0 Using Logical Connection Object, Part 1



## Applies to:

SAP NetWeaver 7.0, MDM 5.5 SP 06 and Business Intelligence 7.0. For more information, visit the [Master Data Management homepage](#).

## Summary

This article will demonstrate the step by step procedure for integrating the BI system with MDM using the Logical connection object.

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## Author Bio



He has been associated with Satyam for 19 months and has been a part of MDM practice since February 2007. He also has ABAP experience and completed his Bachelor's degree in Mechanical Engineering.

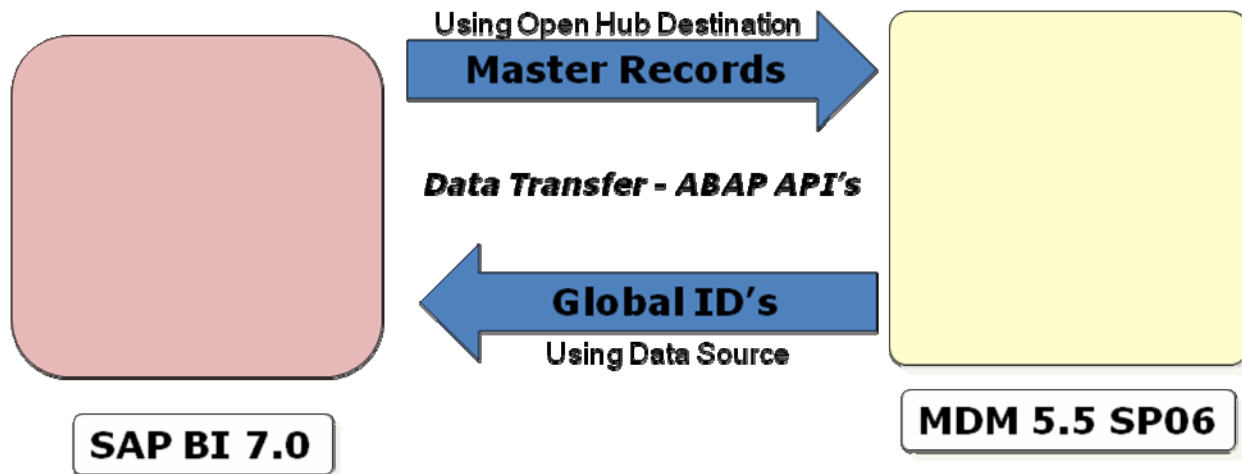
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## Introduction

MDM plays key role in analytics area to produce accurate reports. So BI-MDM integration is very handy in SAP landscape. Earlier integrations between BI and MDM were through FTP, where the BI system and MDM were exchanging the data through ready folder of FTP. But later SAP came with inbuilt feature for BI where it can directly send the data to MDM through ABAP APIs.

MDM in analytics is acting as plug-in to the data warehouse. BI will push the data to MDM. MDM is only responsible for cleansing data and again BI will pull the cleansed data from MDM.



## Prerequisites

1. The compatible MDM\_TECH should have been installed on the ABAP based system. It can be checked through SAINT transaction MDM\_TECH add-on on contains set of ABAP APIs which can be used to simulate almost all functions of console, import manager, data manager and syndicator.

### Add-On Installation Tool - Version 7.00/0027

The screenshot displays the 'Add-On Installation Tool - Version 7.00/0027' window. At the top, there is a title bar with standard icons. Below it, a dashed box contains the text 'Add-On Installation Tool : Installed Add-ons'. The main area features a table titled 'Add-ons and Preconfigured Systems installed in the system'.

Add-on/PCS	Release	Level	Description	Import cl...	Import date
BI_CONT	703	0009	Business Intelligence Content	000	01.06.2006
MDM_TECH	555_700	0005	MDM_TECH 555 : Add-On Installation	000	07.05.2008
PI_BASIS	2005_1_700	0015	PI_BASIS 2005_1_700	000	18.04.2005
SAP_BW	700	0017	SAP NetWeaver BI 7.0	000	18.04.2005

Below the table is a 'Status/Remarks' section with a yellow warning icon and the following text:

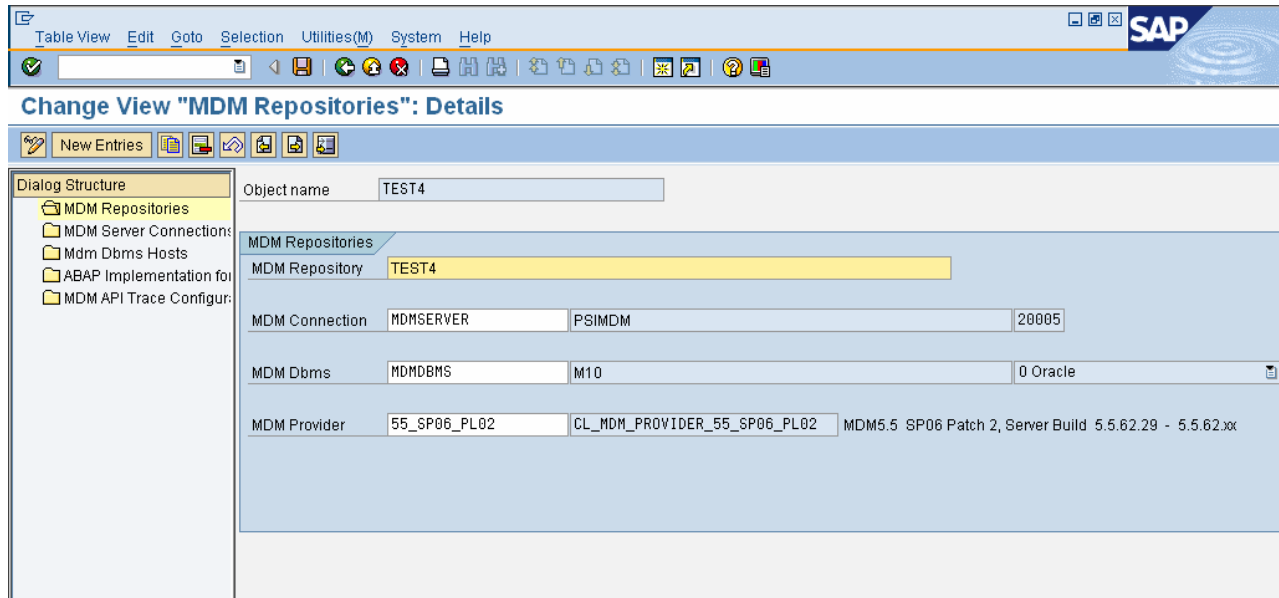
**!** You can only use the display mode  
Reason: OCS is locked by transaction SPAM  
Process all the steps of the transaction SPAM until they are completed

At the bottom of the window, there are three buttons: 'Back', 'Start', and 'Cancel'.

## 2. Creation of a Logical connection object using the transaction MDMAPIC.

For more information regarding the configuration of Logical object please go through the following link

<https://www.sdn.sap.com/irj/sdn/go/portal/prtroot/docs/library/uuid/601ddb01-e5c8-2910-d981-b190b51fca44>



## 3. Make sure that there is a trusted connection between the MDM server and the BI server before proceeding into the further steps of the scenario.

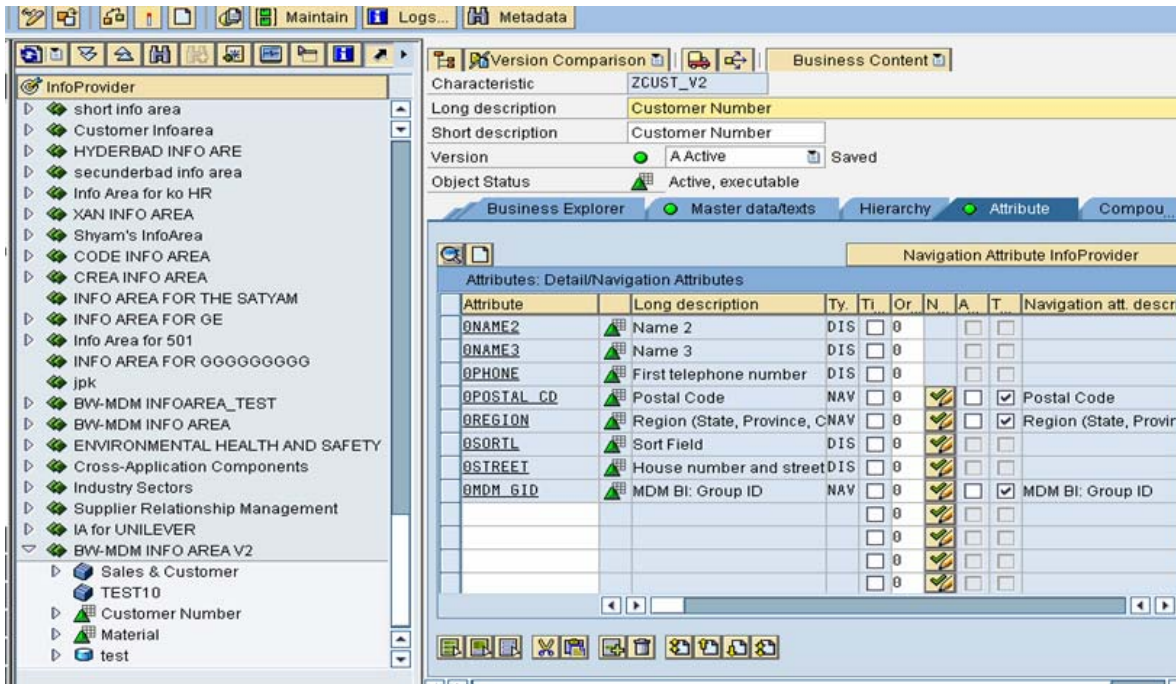
Trusted connection can be enabled by mentioning the BI server IP address in allow.ip file which is in the MDM server; so that MDM will understand that the connection pool with BI is trusted.

For more information on allow.ip, please refer the following link

[http://help.sap.com/saphelp\\_mdm550/helpdata/en/44/93aa6e31381053e1000000a422035/frameset.htm](http://help.sap.com/saphelp_mdm550/helpdata/en/44/93aa6e31381053e1000000a422035/frameset.htm)

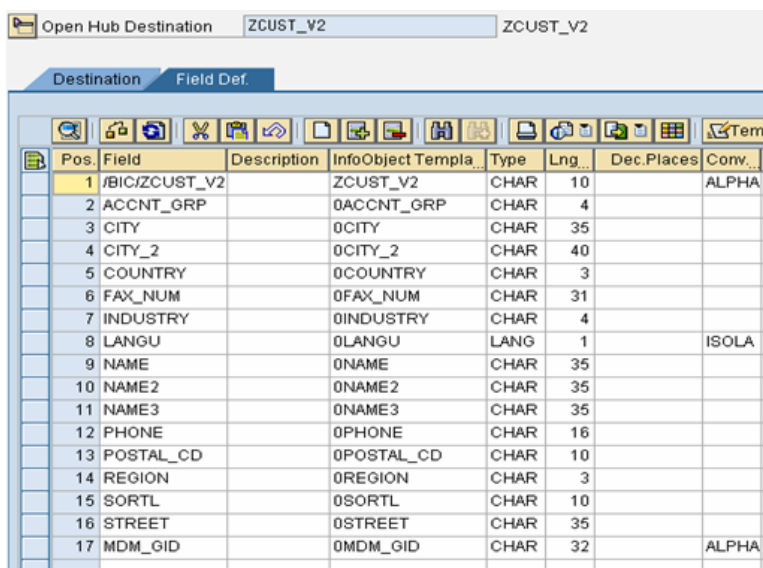
## Adding OMDM\_GID

OMDM\_GID has to be added as navigational attribute to the Info Object .This attribute is going to store the Global ID generated later.



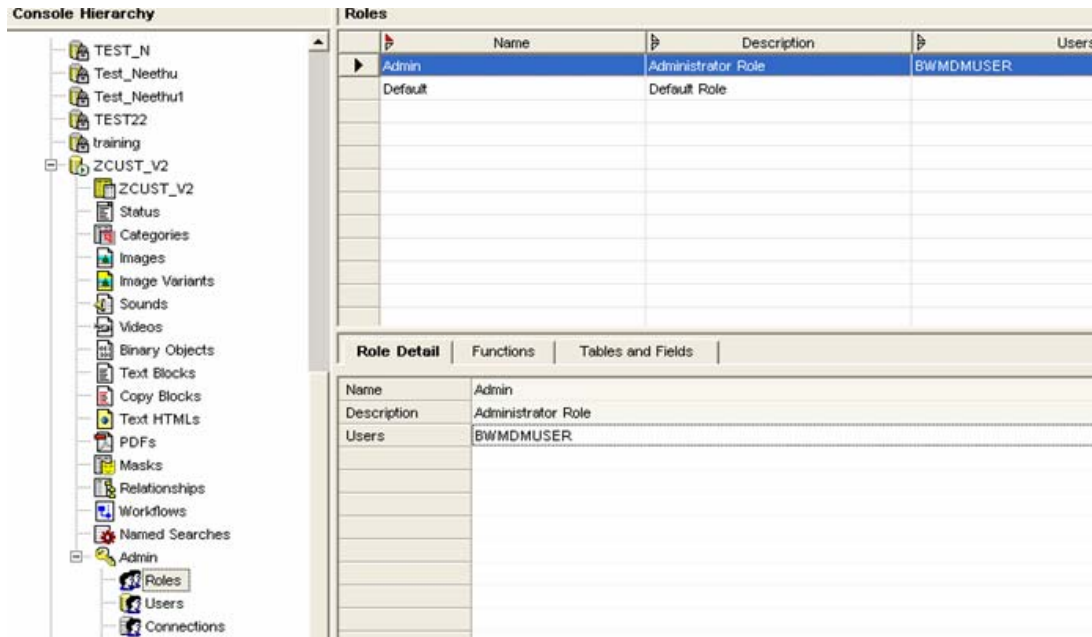
## Passing Logical Object to OHD

Create the Open Hub destination to the Info object on which data cleansing has to be done. And pass the logical object connection object in the target system. Make sure that the Logical connection object was configured correctly with MDM application server and DBMS server details. Open Hub Destination allows user to select only certain fields from info object for consolidation. Open Hub Destination also needs the user ID and password of the DBMS server on which MDM server is installed.



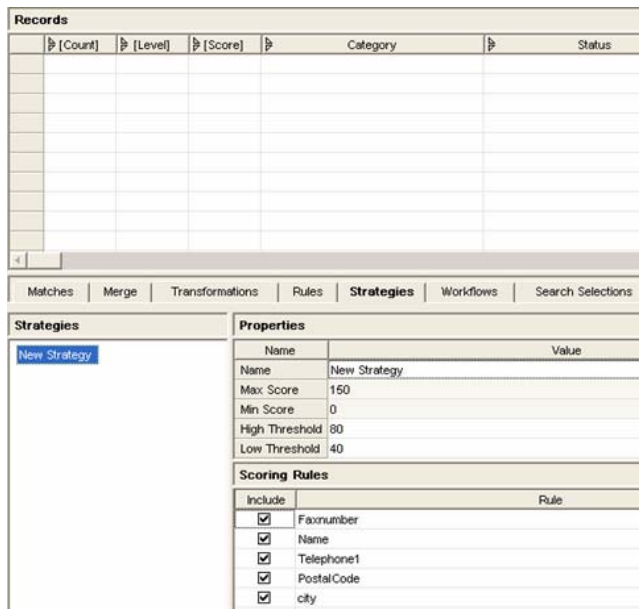
## Activating the OHD

Activation of OHD leads to the creation of the repository in the MDM .It uses the details mentioned in the logical connection object to establish the connection. It will automatically trigger a series of the functions to create repository and fields.



## Defining the Strategies

Before pushing any data into the MDM server, strategies have to be set in the MDM. Here strategies place a very important role, because global id will be generated solely depending on the strategies defined.



## Creating Transformations

Create Transformations from the info object to the Open hub destination. And map the only required fields which are required for consolidation.

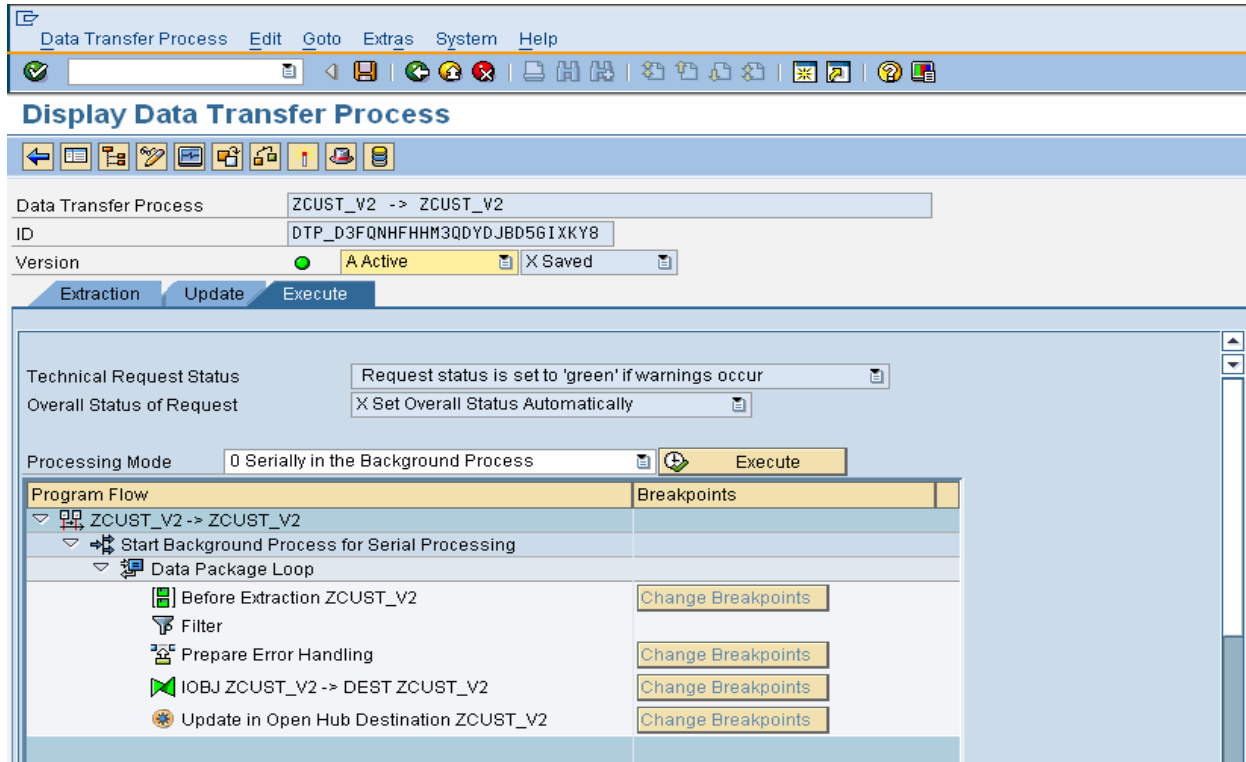
The screenshot shows the SAP Transformation Change interface. The transformation is named 'IOBJ ZCUST\_V2 -> DEST ZCUST\_V2'. The source is 'Customer Number (ZCUST\_V2)' and the target is 'ZCUST\_V2 (ZCUST\_V2)'. The version is 'A Active' and it is 'Executable'. The interface displays a mapping table between the source and target fields.

Customer Number (ZCUST_V2)				Rule Group: Standard Group				
Pos	Ke	InfoObject	Descr	Ru	Rule Name	Pos	Ke	Field
1		ZCUST_V2		=	/BIC/ZCUST_V2	1		/BIC/ZCUST_V2
2		OACCNT_GRP		=	ACCNT_GRP	2		ACCNT_GRP
3		OCITY		=	CITY	3		CITY
4		OCITY_2		=	CITY_2	4		CITY_2
5		OCOUNTRY		=	COUNTRY	5		COUNTRY
6		OFAX_NUM		=	FAX_NUM	6		FAX_NUM
7		OINDUSTRY		=	INDUSTRY	7		INDUSTRY
8		OLANGU		=	LANGU	8		LANGU
9		ONAME		=	NAME	9		NAME
10		ONAME2		=	NAME2	10		NAME2
11		ONAME3		=	NAME3	11		NAME3
12		OPHONE		=	PHONE	12		PHONE
13		OPOSTAL_CD		=	POSTAL_CD	13		POSTAL_CD
14		OREGION		=	REGION	14		REGION
15		OSORTL		=	SORTL	15		SORTL
16		OSTREET		=	STREET	16		STREET



## Creating and Execution of DTP

Create a DTP for the OHD, and execute it. After it got executed data in the info object will be syndicated to the MDM according the transformations defined. At the same time Global IDs are generated in the MDM depending on the strategies defined in the MDM.



## Summary

For implementing this scenario one should have a thorough understanding of info cubes, info objects, transformations, OHDs and DTPs. MDM only acts as just plug-in in this scenario. Identification of duplicates solely depends on the strategies defined in the MDM which means there should be a lot of functional involvement in the scenario.

My next article will demonstrate how to pull the cleansed data from the MDM and How to generate consolidate report from the cleansed data.

## Related Content

<https://www.sdn.sap.com/irj/sdn/go/portal/prtroot/docs/library/uuid/601ddb01-e5c8-2910-d981-b190b51fca44>

[http://help.sap.com/saphelp\\_mdm550/helpdata/en/44/93aa6e31381053e10000000a422035/frameset.htm](http://help.sap.com/saphelp_mdm550/helpdata/en/44/93aa6e31381053e10000000a422035/frameset.htm)

<http://help.sap.com/>

For more information, visit the [Master Data Management homepage](#).

[Integrating MDM with BI 7.0 Using Logical Connection Object Part 2](#)

[Integrating MDM with BI 7.0 Using Logical Connection Object Part 3](#)

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