

flexera

Standardized Mashup

Data Platform 5.5.45



Legal Information

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Table of Contents

- Legal Information.....2**
- I. BACKGROUND.....4**
- II. STEPS TO CREATE A SIMPLE MASHUP USING A CSV FILE4**
 - 1. Add Data Source4
 - 2. Select Data Source Type5
 - 3. Define and Customize Mashup Data6
 - 4. Finish Data Mashup Creation.....8
- III. STEPS TO CREATE A SIMPLE MASHUP USING A DATABASE TABLE8**
 - 1. Add Data Source8
 - 2. Define Database Connection.8
 - 3. Select Database Table9
 - 4. Define and Customize Mashup Data10
 - 5. Finish Data Mashup Creation.....10
- IV. CREATING REPORTS ON USER CONSOLE USING THE MASHUP DATA10**
- APPENDIX A.....12**

I. BACKGROUND

Per- [Data Platform Administration Guide](#) (p. 80):

“A data mashup allows the import of an external data source to the Normalize database. Add a data mashup when you want to input data from any data sources that are accessible from your BDNA Normalize server. For example, you can input warranty data from an Accounting database or Human Resource data from a Human Resources database. A data mashup is added as a separate data source to an existing process.”

The document above further explains how a data mashup can be created using a database connection or a CSV file. To accomplish this, the user needs to either customize the configuration file, or define and build the CSV file following certain rules to map the objects and key fields. The complexity of this process has proven to deter some users from utilizing this capability. By introducing the standardized mashup process in Data Platform, we want to lower this barrier and deliver a much simpler way to create a data mashup for most commonly used attributes right within the product, without extensive knowledge of the configuration file or the attribute mapping rules.

II. STEPS TO CREATE A SIMPLE MASHUP USING A CSV FILE

1. Add Data Source

In Admin Console, with at least one existing IT Discovery Tool has been defined as the main normalization data source in the inventory, click “Add data Source” and select “Data Mashup – Simple” radio button.

Create Process

Process Type

- IT Discovery Tool**
ConfigMgr, Altiris, DDMI, etc...
- Purchase Order**
CDW, Insight, SHI, etc.
- Data Mashup – Simple**
Import any external data source (Excel, etc.) with Custom Key to Normalize database.
- Data Mashup – Advanced**
Import any external data source (Excel, etc.) to Normalize database.
- Normalize CM**
Populate ConfigMgr database with normalized data.
- Fingerprints**

NEXT

Note that the “Data Mashup – Advanced” is still available for users who prefer to use the old way of creating a mashup data or when the mashup data contains the types of data that is outside the scope of the standardized “Simple” mashup.

2. Select Data Source Type

In the next screen, choose “CSV or TXT file”, proceed to select and upload a file that is stored locally by clicking the “UPLOAD FILE” button. Any CSV or flat file source can be used as long as there is at least one field/column that can be used as a matching key to any of the standard columns/fields in normalized inventory data.

	A	B	C	D	E
1	Key-Domain\Username:UserID	Business Unit	Department	Region	Country
2	HPUDDOMAIN\HPUDUSR5	Corporate	Marketing	North America	USA
3	HPUDDOMAIN\HPUDUSR10	Corporate	Marketing	North America	USA
4	HPUDDOMAIN\HPUDUSR18	Corporate	Marketing	North America	USA
5	HPUDDOMAIN\HPUDUSR19	Corporate	Marketing	North America	USA
6	HPUDDOMAIN\HPUDUSR23			North America	USA
7	HPUDDOMAIN\HPUDUSR24			North America	USA
8	HPUDDOMAIN\HPUDUSR26	Corporate	Marketing	North America	USA
9	HPUDDOMAIN\HPUDUSR30	Corporate	Marketing	North America	USA
10	HPUDDOMAIN\HPUDUSR33	Corporate	Marketing	North America	USA
11	HPUDDOMAIN\HPUDUSR37	Corporate	Marketing	North America	USA
12	HPUDDOMAIN\HPUDUSR39	Corporate	Marketing	North America	USA
13	HPUDDOMAIN\HPUDUSR40	Corporate	Marketing	North America	USA
14	HPUDDOMAIN\HPUDUSR41	Corporate	Marketing	North America	USA
15	HPUDDOMAIN\HPUDUSR42	Corporate	Marketing	North America	USA
16	HPUDDOMAIN\HPUDUSR43	Corporate	Marketing	North America	USA
17	HPUDDOMAIN\HPUDUSR44	Corporate	Marketing	North America	USA
18	HPUDDOMAIN\HPUDUSR211	Corporate	Marketing	North America	USA
19	HPUDDOMAIN\HPUDUSR213	Corporate	Marketing	North America	USA
20	HPUDDOMAIN\HPUDUSR215	Corporate	Marketing	North America	USA
21	HPUDDOMAIN\HPUDUSR217	Corporate	Marketing	North America	USA
22	HPUDDOMAIN\HPUDUSR218	Corporate	Marketing	North America	USA
23	HPUDDOMAIN\HPUDUSR219	Corporate	Marketing	North America	USA

3. Define and Customize Mashup Data

As the “Next” button is clicked, the next screen will show the interface that can be used to define and customize the mashup data.

Create Process

Process Type > Mashup Source > Data Source > Process

Mashup Name:
 ← File name

Mashup Type:

Column name	<input type="checkbox"/> Include in Mashup	Use as Key	Column mapping (optional)	Reset
Key- Domain\Username:UserID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Domain\Username	
Business Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	please select... please select... Domain Domain\Username Username Business Unit Location Cost Center	
Department	<input type="checkbox"/>	<input type="checkbox"/>		
Region	<input type="checkbox"/>	<input type="checkbox"/>		

FINISH

From the screenshot above:

- The original file name (in this example, “HR”) will be the “Mashup Name” by default. User can change this by typing in the desired new Mashup Name.
- All columns available in the mashup file will be populated under the “Column name” using the original column headers
- “Mashup Type” will determine standardized mashup columns/fields that are available for each data type. Refer to [Appendix A](#) to see the list of all mashup types and columns that are available as part of the Simple Mashup.
- Check the “Included in Mashup” box to include the column in the mashup data
- Check the “Use as Key” box to use the column as a matching key with any of the existing columns in the inventory data source. Multiple keys can be selected depending on how the mashup data source is intended to match the inventory data source.
- “Column mapping (optional)” gives user the ability to map any of the standardized mashup columns/fields to the column that comes in the mashup file. When a standard column/field has been selected, it will be greyed out (i.e., it can no longer be used to map other columns in the mashup file)

4. Finish Data Mashup Creation

When all the desired customization is done, click “Finish” to complete the creation of the mashup data.

III. STEPS TO CREATE A SIMPLE MASHUP USING A DATABASE TABLE

1. Add Data Source

Follow the same step as the creation of a simple mashup using a CSV file above

2. Define Database Connection.

In the next screen, choose “Database Connection” which brings up the dialog to define the database connection.

The screenshot shows a 'Create Process' dialog box with a breadcrumb trail: 'Process Type > Mashup Source > Data Source'. Below the breadcrumb, it says 'Specify data source and location of mashup source.' There are radio buttons for database types: MSSQL (selected), Oracle, DB2, MySQL, PostgreSQL, and Sybase. Below these are input fields for 'Server Name:', 'Database:', 'User Name:', and 'Password:'. There is a checkbox for 'Use Windows Authentication' which is unchecked. A blue 'TEST CONNECTION' button is located to the right of the password field. At the bottom right, there are 'PREV' and 'NEXT' buttons.

Specify the database type, populate all the parameters that are needed to connect to the database.

3. Select Database Table

Click “Test Connection”, and upon a successful connection, a drop-down menu which lists all the tables that are available in the database will show up.

The screenshot shows a 'Create Process' dialog box with the following fields and options:

- Process Type:** Purchase Order Source > Mashup Source > Data Source
- Database Type:** MSSQL (selected), Oracle, DB2, MySQL, PostgreSQL, Sybase
- Server Name:** ad.fv5.com
- Database:** mashup
- Use Windows Authentication:**
- User Name:** sa
- Password:** [masked]
- Table Name:** select a table (dropdown menu open showing: CPU_golden, HR-DEMO, HW-golden-fixed, MACHINE-golden2, MANU-golden, OS-golden, Other-golden, SW-golden)
- Table Filter:** [input field]
- TEST CONNECTION:** [button]
- PREV:** [button]
- NEXT:** [button]
- MORE D:** [button]

Use “Filter” to assist in finding the right table quickly (especially when the database contains a large number of tables). When the desired table has been selected, click on the “Next” button.

4. Define and Customize Mashup Data

The next dialog will be identical to the one for creating mashup using a CSV file in the previous section where the interface can be used to define and customize the mashup data.

Create Process

Process Type > Purchase Order Source > Mashup Source > Data Source > Process

Mashup Name: HR-DEMO ← Database table name

Mashup Type: User

Column name	<input type="checkbox"/> Include in Mashup	Use as Key	Column mapping (optional)	Reset
KEY-DOMAIN USERNAME USERID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Domain\Username	
BUSINESS UNIT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	please select...	
DEPARTMENT	<input type="checkbox"/>	<input type="checkbox"/>		
REGION	<input type="checkbox"/>	<input type="checkbox"/>		

Column names

please select...
Domain
Domain\Username
Username
Business Unit
Location
Cost Center

FINISH

5. Finish Data Mashup Creation

Follow the same steps as the creation of mashup data using a CSV file in the previous section. When all the desired customization is done, click “Finish” to complete the creation of the mashup data.

IV. CREATING REPORTS ON USER CONSOLE USING THE MASHUP DATA

After normalization process is done, all the mashup columns/fields that have been defined in the above steps should be available in User Console when a user wants to create a report that contains the mashup data.

For example, from the mashup using the CSV file above, the mashup fields are available on the left pane to drag and drop into the report:

The screenshot shows a reporting tool interface. On the left, under 'Available fields (325) for: IT Assets', there is a list of fields. The 'HR' field is highlighted with a red box. Below it, 'Business Unit', 'Department', 'Region', and 'Country' are also listed. On the right, a report is displayed with columns: 'SYS Hostname', 'SYS User Domain', 'Business Unit', 'Department', 'Region', and 'Country'. The 'Business Unit', 'Department', 'Region', and 'Country' columns are highlighted with a red box. Red arrows point from the 'HR' field in the left pane to the 'Business Unit' column in the report, and from the 'Business Unit', 'Department', 'Region', and 'Country' columns in the report to the 'Business Unit', 'Department', 'Region', and 'Country' fields in the left pane. Labels 'Mashup name' and 'Mashup fields' are placed near these arrows.

SYS Hostname	SYS User Domain	Business Unit	Department	Region	Country
ACME167772...	-	Not Available	Not Available	Not Availa...	Not Availa...
ACME167772...	-	Not Available	Not Available	Not Availa...	Not Availa...
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	ACMEDOMAIN	Sales	Channel	Asia	China
ACME167772...	-	Not Available	Not Available	Not Availa...	Not Availa...
ACME167772...	-	Not Available	Not Available	Not Availa...	Not Availa...
ACME167772...	-	Not Available	Not Available	Not Availa...	Not Availa...

This is essentially no different from the behavior of mashup fields that are created using the old “Mashup – Advance” methodology.

APPENDIX A

List of Standardized Mashup Types and Columns

1. **Mashup Type:** Machine

Mashup columns:

- Hostname
- Domain
- Domain/Hostname
- IPAddress
- MachineID
- SerialNumber
- Business Unit
- Location
- Cost Center

2. **Mashup Type:** User

Mashup columns:

- Domain
- Domain/Username
- Username
- Business Unit
- Location
- Cost Center

3. **Mashup Type:** Software

Mashup columns:

- ReleaseID
- ProductID
- VersionID
- VersionGroupID
- EditionID
- Business Unit
- Location
- Cost Center

4. **Mashup Type:** Hardware

Mashup columns:

- ProductID
- ModelID

- Business Unit
- Location
- Cost Center

5. **Mashup Type: OS**

Mashup columns:

- ReleaseID
- ProductID
- VersionID
- VersionGroupID
- EditionID
- Business Unit
- Location
- Cost Center

6. **Mashup Type: CPU**

Mashup columns:

- ModelID
- Business Unit
- Location
- Cost Center

7. **Mashup Type: Manufacturer**

Mashup columns:

- ManufacturerID
- Business Unit
- Location
- Cost Center

8. **Mashup Type: Other**

Mashup columns:

- Business Unit
- Location
- Cost Center