

# DOCUMENTATION

## **BDNA Data Platform**

### **Release Notes**

**May 28, 2015**

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# BDNA Data Platform Release Notes

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## New Features

### Functions / Server

#### Normalize

- Normalize 4.x
- Manage Normalize, Publish and Archive DB
- Manage Role Assignment
- Private Catalog
- Tagging
- Bi-directional API
  - Operate Normalize, Read / Write Data

#### UI

- Search Server
- Analyze Server
- Use bi-directional API for
  - View page
  - Tagging
  - Private data (bi-directional API)

## New Roles

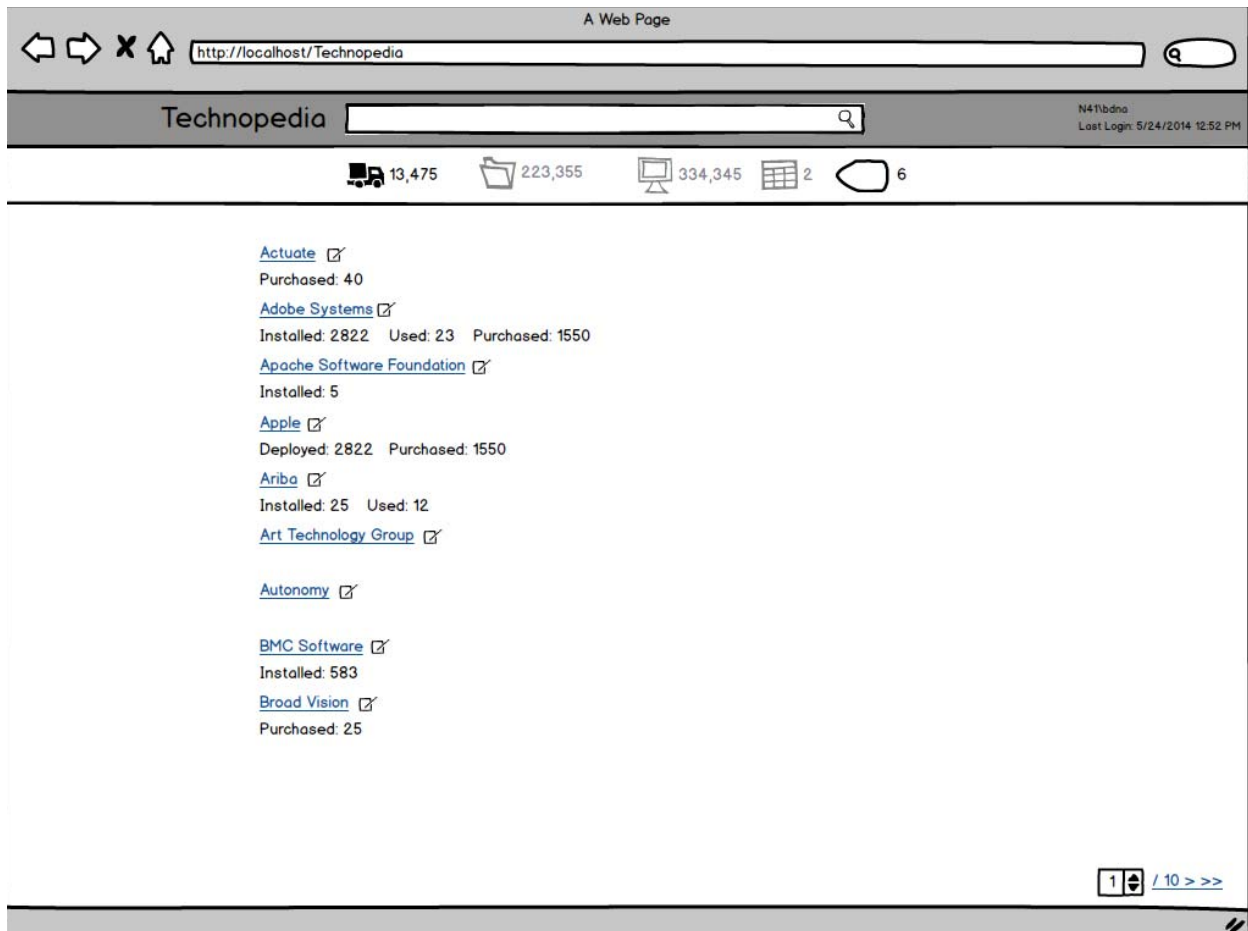
Figure 1:

Role	Description	Comments
Technopedia Viewer	User can search and browse Technopedia. And if a Tag is assigned to them by the Administrator, they can add/remove tags to specific objects.	This includes the Search and Analyze capabilities. The user can save Template/Reports, and share/un-share with other. If customer has a license for Normalize, this includes the Normalize data.  Note: Technopedia License Key is required for this Role.
Technopedia Editor	User can overwrite Technopedia attributes, and create new objects (Manufacturer, Software, Release, etc...) Note: Technopedia Viewer Role is automatically includes in this role.	This is the TPC function If customer has a license for Normalize, this includes the Normalize Private Mapping  Note: Technopedia License Key and Private Catalog License Key are required for this Role.
Technopedia Administrator	The administrator can manage share/un-share Templates/Reports, create/delete Tags, and assign Tags to Technopedia Viewer. The administrator can define new attributes and content packs.  Note: Technopedia Viewer and Editor Roles are automatically includes in this role.	          Note: Technopedia License Key is required for this Role.

**Note:** A new product “private catalog” will be created in the LMS server

## Home / Search Page

Figure 2:

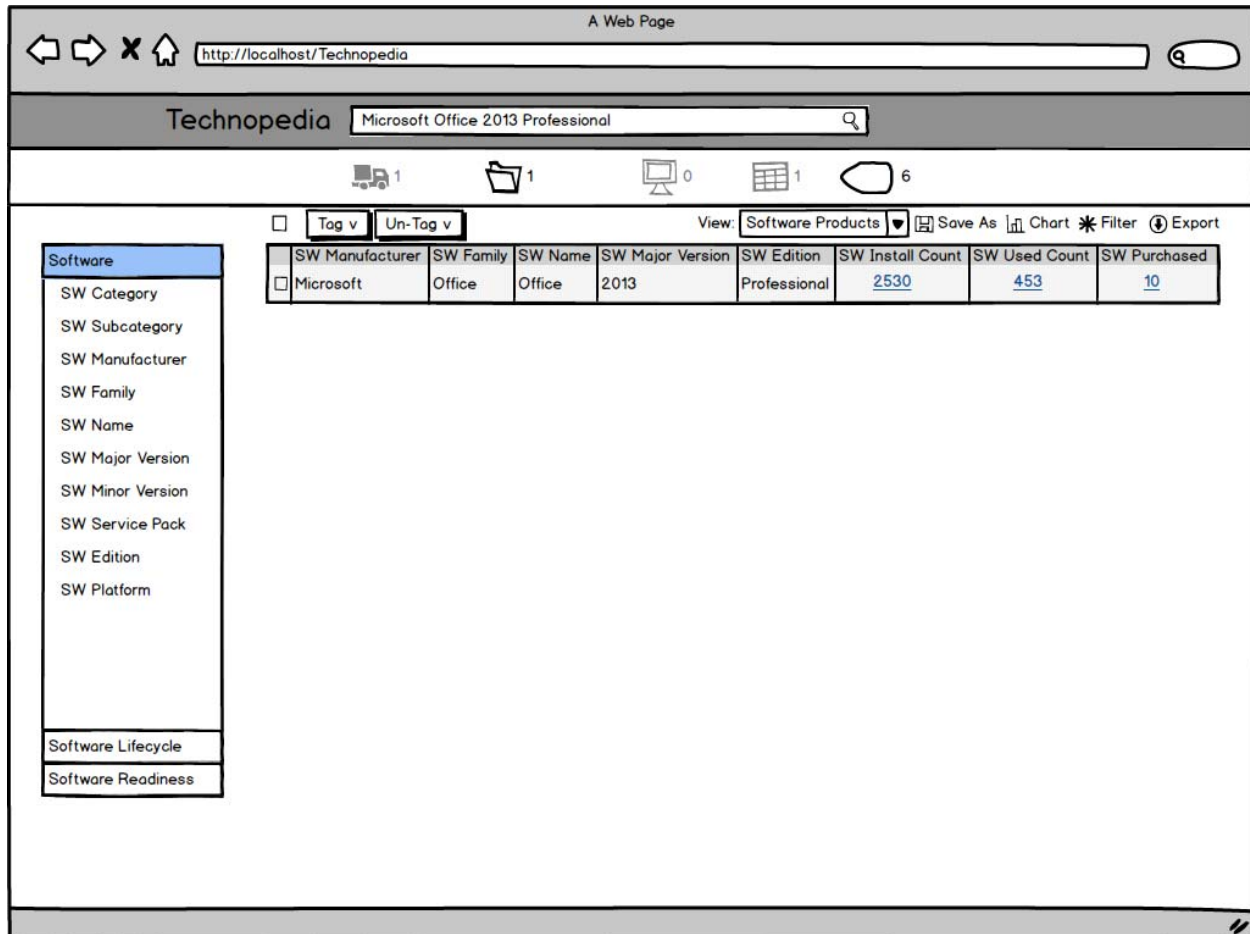


## Browse

- Manufacturer
- Software
- Hardware
- Reports
- Tags
- Additional data
  - Taxonomy
  - CPU
  - System (Normalize License Key)
  - User (Normalize License Key)

## Click on Results – Aggregate (Analyzer)

Figure 3:



Click on Results – Switch View

Click on Results – List (Interactive Report)

Right Click (to View Details)

View Detail – Stack (Cascade?)

View Detail – View Mode (Default)

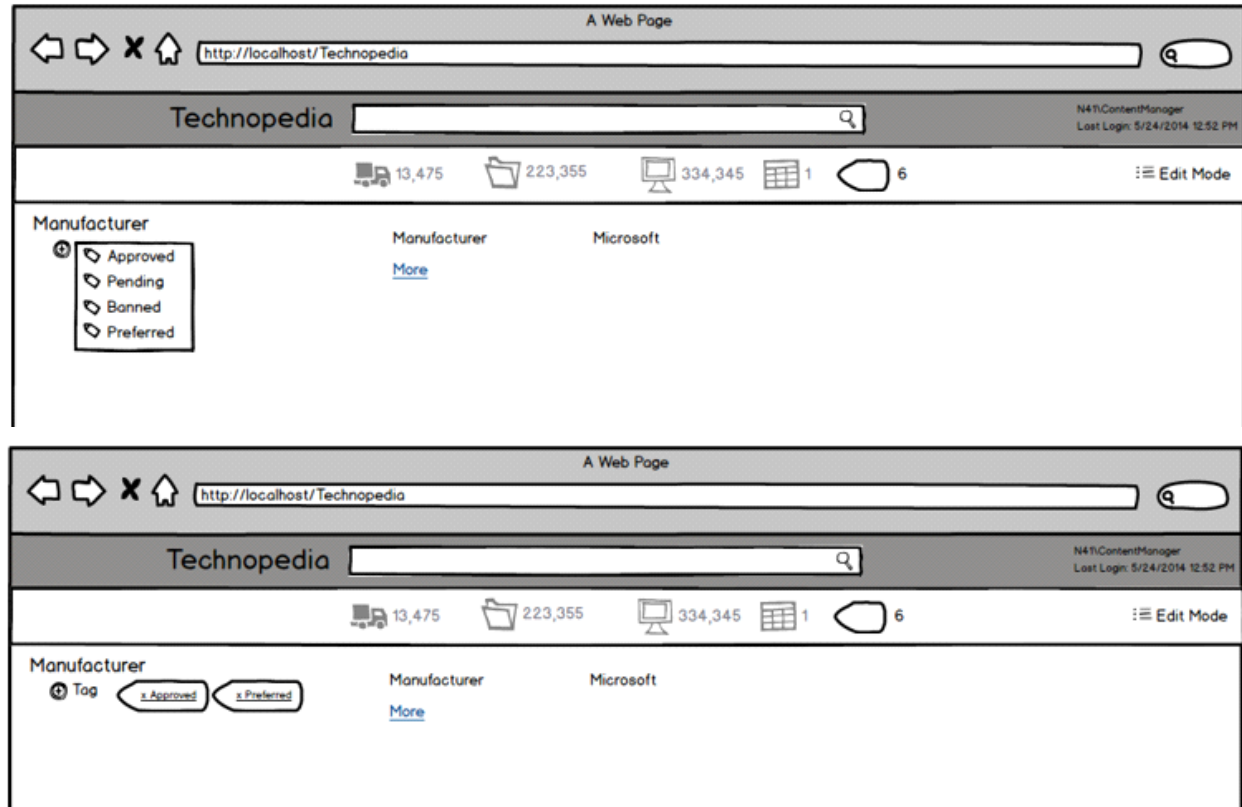
View Detail – View Mode (Extended)

View Detail – Edit Mode (TPC)

View Detail - Add Content Pack

## Tag/Untag

Figure 4:

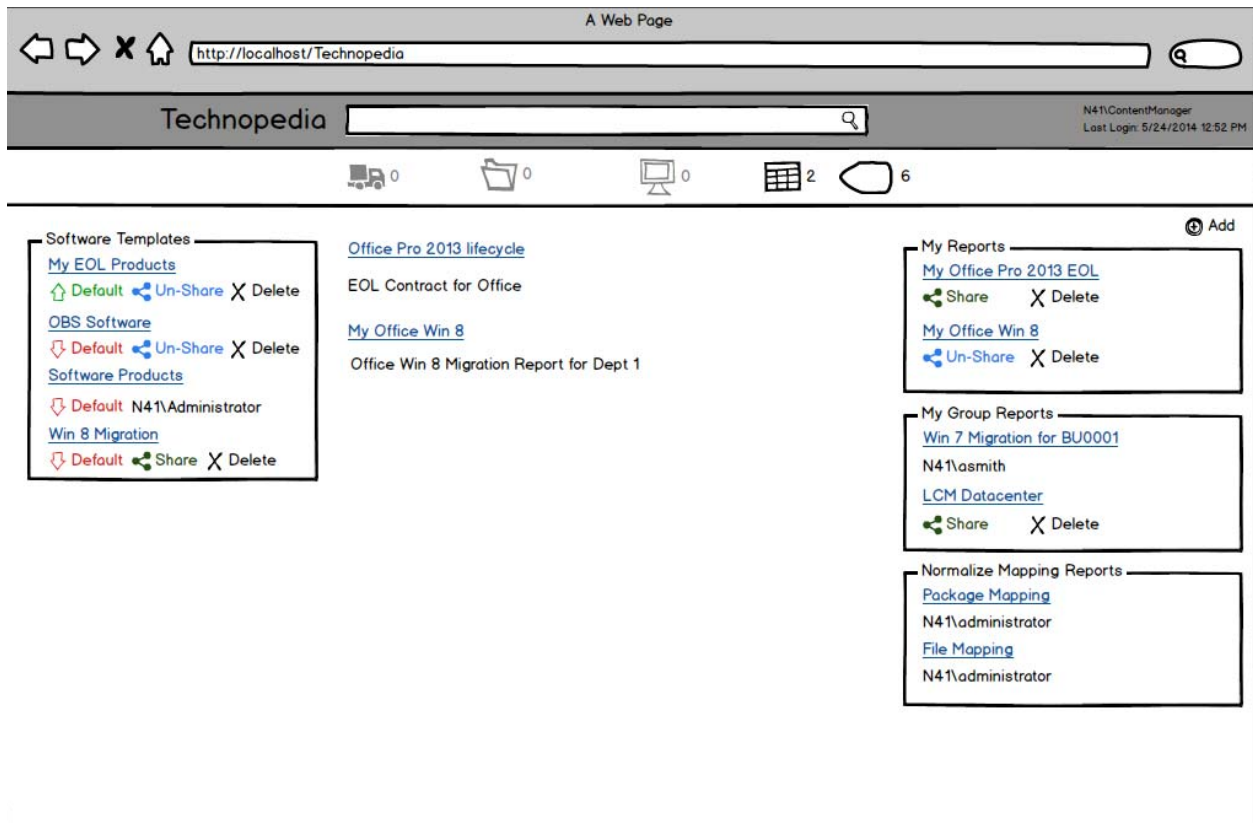


## Tag Administration



## Reports

Figure 5:



## Normalize Mapping

Figure 6:

The screenshot shows a web browser window titled "A Web Page" with the address bar displaying "http://localhost/Technopedia". The page header includes the "Technopedia" logo and a search bar. Below the header, there are statistics: 13,475 (truck icon), 223,355 (folder icon), 334,345 (monitor icon), 1 (table icon), and 1 (pie chart icon). The main content area features a sidebar on the left with a tree view containing "Software", "Status", "Package" (highlighted), "ProdID", "DisplayName", "Publisher", "Version", "File", and "Measures". The main area displays a table with columns: Category, Reasons, ProdID, DisplayName, Publisher, Version, and Number of Instance. The table contains four rows of data. A context menu is open over the third row, showing options: "Exclude MyApp", "Keep Only MyApp", and "Mark as Private" (highlighted). The table data is as follows:

Category	Reasons	ProdID	DisplayName	Publisher	Version	Number of Instance
<input type="checkbox"/> Irrelevant	Driver	wdeqdea	Dell Touchpad	ALPS ELECTRIC CO	7.1208.101.12	2
<input type="checkbox"/> Irrelevant	Miscellaneous	fsdfsdfs	VX2 Cleaner plug-in for Ad-Aw	Lavasoft	NULL	10
<input type="checkbox"/> Unknown		sfgsgd	MyApp		3.3.7	1
<input type="checkbox"/> Irrelevant	Hotfix	gsdgsdg	Software upd	rch In Motion Ltd	1.0.0.1	1
<input type="checkbox"/> Mapped		sdfsdfs	Adobe Flash	Systems Incorporat	10.2.153.1	1

## Normalize Mapping – Add Private

Figure 7:

The screenshot shows a web browser window titled "A Web Page" with the address bar displaying "http://localhost/Technopedia". The page header includes the "Technopedia" logo and a search bar. Below the header, there are statistics: 13,475 (with a truck icon), 223,355 (with a folder icon), 334,345 (with a monitor icon), and 1 (with a speech bubble icon). The main content area has a left sidebar with a tree view containing "Software", "Status", "Package" (selected), "ProdID", "DisplayName", "Publisher", "Version", "File", and "Measures". The main area displays a table with columns: Category, Reasons, ProdID, DisplayName, Publisher, Version, and Number of Instance. A "Private Catalog" dialog box is open, showing fields for Publisher (acme), DisplayName (MyApp), and Version (3.3.7). Below these are dropdown menus for Manufacturer, Software, Version, and Edition, each with an "Add" link. The dialog also has "Cancel" and "Save" buttons.

Category	Reasons	ProdID	DisplayName	Publisher	Version	Number of Instance
Irrel					1208.101.12	2
Irrel					ULL	10
Unkr					3.7	1
Irrel					0.0.1	1
Map					2.153.1	1

## System Requirements

### Software

Table 1: Software

OS/Apps	Supported Types/Versions
Operating Systems	<ul style="list-style-type: none"> <li>Windows Server 2008 R2™</li> <li>Windows Server 2012™</li> </ul>
Databases	<ul style="list-style-type: none"> <li>MS SQL Server 2008 R2 Express™</li> <li>MS SQL Server 2008 R2™</li> <li>MS SQL Server 2012™</li> <li>Oracle 11gR2 Enterprise™<sup>a</sup></li> </ul>
Browsers	<ul style="list-style-type: none"> <li>Windows Internet Explorer™ v8 or later</li> <li>Google Chrome™ v31 or later</li> <li>Mozilla FireFox™ v21 or later</li> </ul>

a. Oracle COMPATIBLE parameter must be set to 11.2.0.0.0 in initialization parameter file `init.ora`.

### Hardware

Table 2: Hardware

Environment	Normalize Server	Database Server
Small (up to 2,000 devices)	<ul style="list-style-type: none"> <li>CPU: Xeon E5620 or similar, 1 core</li> <li>RAM: 4 GB</li> <li>Storage capacity: 20 GB free space</li> </ul>	<ul style="list-style-type: none"> <li>CPU: Xeon E5620 or similar, 2 cores</li> <li>RAM: 8 GB</li> <li>Storage capacity: 50 GB free space</li> <li>Disk I/O: 80 MB/sec</li> </ul>
Medium (up to 50,000 devices)	<ul style="list-style-type: none"> <li>CPU: Xeon E5620 or similar, 2 cores</li> <li>RAM: 8 GB</li> <li>Storage capacity: 100 GB free space</li> </ul>	<ul style="list-style-type: none"> <li>CPU: Xeon E5620 or similar, 4 cores</li> <li>RAM: 16 GB</li> <li>Storage capacity: 350 GB free space</li> <li>Disk I/O: 110 MB/sec</li> </ul>
Large (up to 300,000 devices)	<ul style="list-style-type: none"> <li>CPU: Xeon E5620 or similar, 4 cores</li> <li>RAM: 16 GB</li> <li>Storage capacity: 200 GB free space</li> </ul>	<ul style="list-style-type: none"> <li>CPU: Xeon E5620 or similar, 8 cores</li> <li>RAM: 64 GB</li> <li>Storage capacity: 1.5 TB free space</li> <li>Disk I/O: 150 MB/sec</li> </ul>

## Network Ports and Protocols

Table 3: Network Ports and Protocols

Port	Server	Protocol	Use
80 (default), 443	Application Server	HTTP, HTTPS	IIS <sup>a</sup> (Normalize Console)
8088 (default)	Application Server	TCP	Internal Remoting Service
1433 (typical)	Database Server	TCP	Normalize DB (MSSQL)
1521 (typical)	Database Server	TCP	Normalize DB (Oracle)

a. If you use IIS Express, port 8080 is used by default.

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**Note:** The actual port number used for data extraction from your source database (MSSQL, Oracle, DB2, etc.) to the Normalize Server is dependent on the site-specific configuration of your source database.

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## Optional Software Packages

If requested, the following software package can be installed during the installation process:

- SQL Server Express (10 GB maximum tablespace; not supported for more than 2,000 devices)

## Normalize CM (an optional feature of BDNA Normalize)

Table 4: Normalize CM

OS/Apps	Supported Types/Versions
Operating Systems	<ul style="list-style-type: none"> <li>• Windows Server 2008 R2</li> <li>• Windows Server 2012</li> </ul>
Databases	<ul style="list-style-type: none"> <li>• MS SQL Server 2008 R2 Express</li> <li>• MS SQL Server 2008, 2008 R2</li> <li>• MS SQL Server 2012</li> </ul>
MS ConfigMgr	<ul style="list-style-type: none"> <li>• ConfigMgr 2007™</li> <li>• ConfigMgr 2012™ RTM, SP1</li> </ul>

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**Note:** If you are using ConfigMgr 2007 with Normalize CM, you must use the `Normalize410-xxxx_x86.exe` installer. If you are using ConfigMgr 2012 with Normalize CM, you must use the `Normalize410-xxxx_x64.exe` installer.

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## Integrating BDNA Data Platform with ServiceNow

If you want to integrate BDNA Data Platform with your ServiceNow instance, make sure you have installed the following update sets:

- Technopedia Normalize 4.2.8 or later
- Technopedia Catalog 3.2.6 or later

## Getting Started

Figure 8:

### 5.0 BDNA Data Platform (On-Premise Deployment)

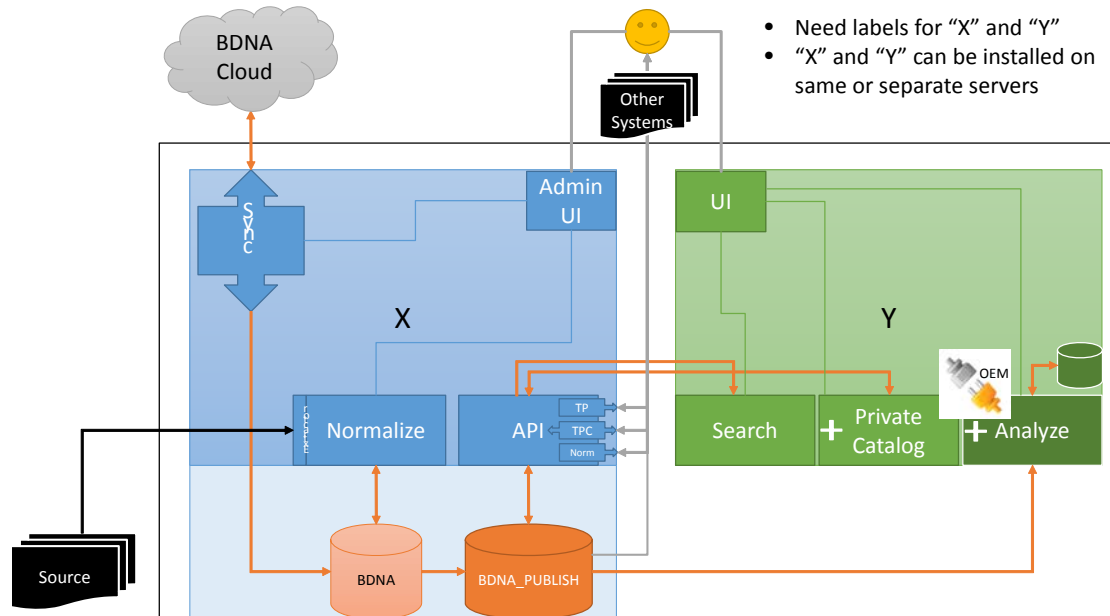


Figure 9:

### User Interface

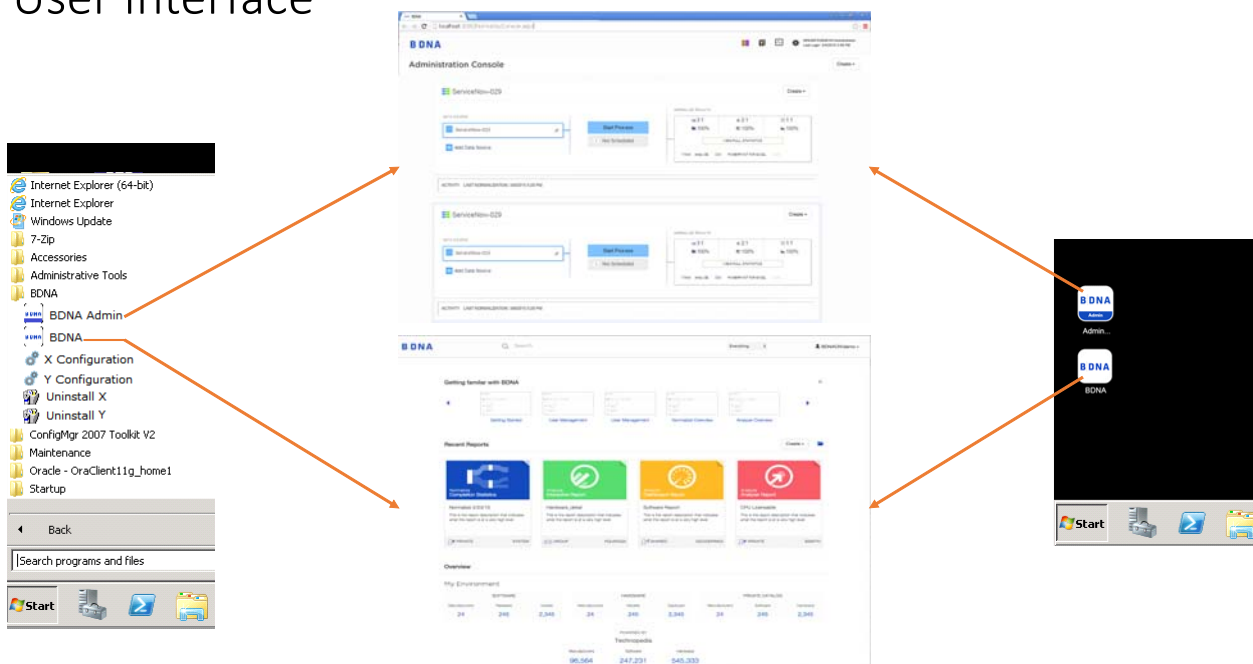


Figure 10:

## End User Interface – Search Result

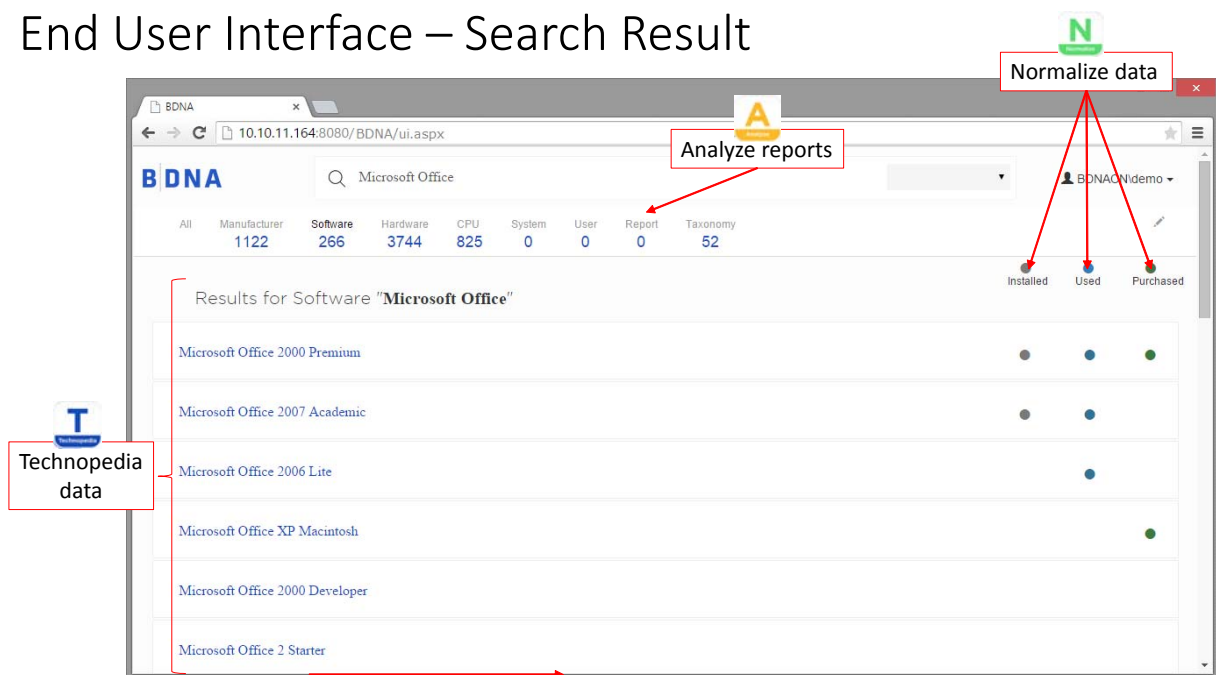


Figure 11:

## End User Interface – Software Release

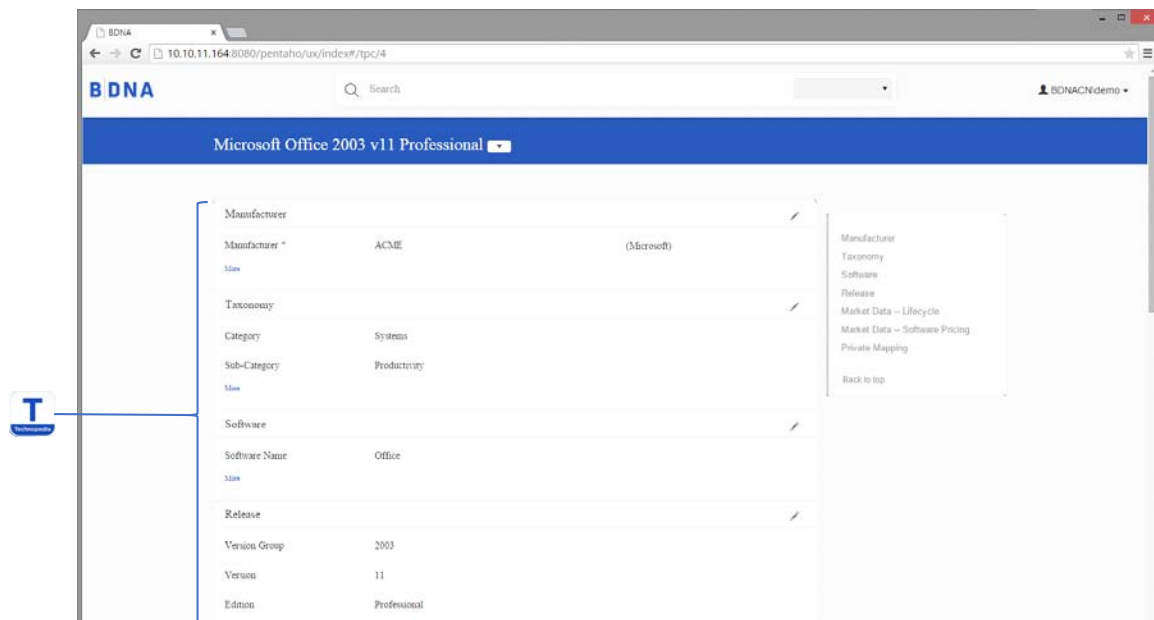
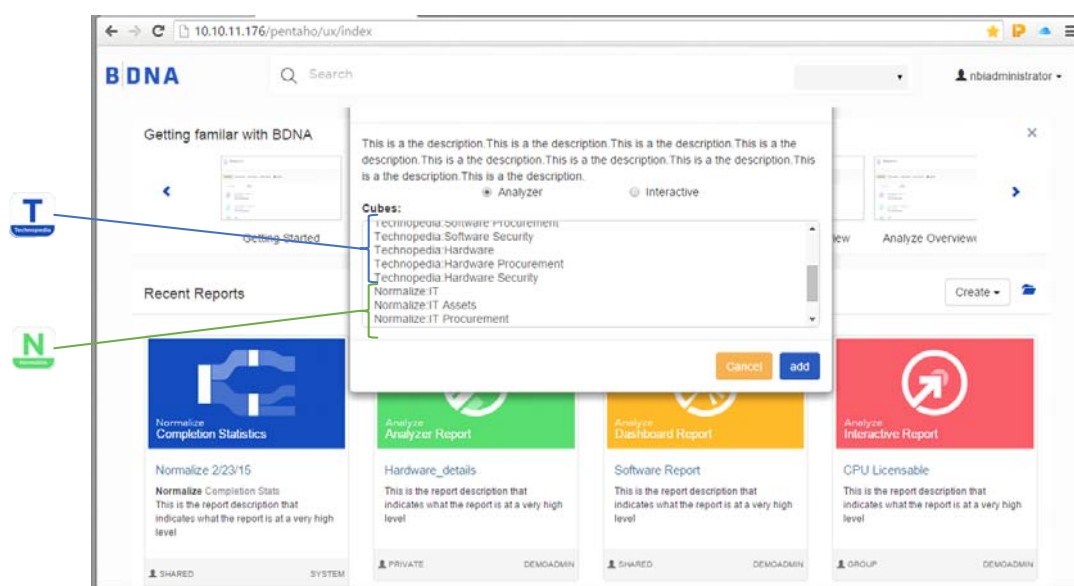


Figure 12:

## End User Interface – Analyze Cubes



## Known Issues

### Excessive Memory Usage Running Normalize Console on Microsoft IE™

Machines running the Normalize Console on an Internet Explorer browser, may run into an excessive memory state after creating and running multiple normalization processes. Users do not experience the same issue when using a Chrome™ browser.

### System Exception Error: ORA-01031: Insufficient Privileges

During the Normalize upgrade from version 4.0 to 5.0 you may encounter the following error:

```
ERROR System.Exception: ORA-01031: insufficient privileges.
```

This error occurs when the NORMALIZE user does not have CREATE ANY TABLE privileges. To correct this issue, the user must manually grant the CREATE ANY TABLE privilege to NORMALIZE after the upgrade finishes.

Command to grant CREATE ANY TABLE privileges:

```
GRANT CREATE ANY TABLE TO NORMALIZE;
```