



DOCUMENTATION

BDNA Data Platform

Release Notes

May 28, 2015

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BDNA Data Platform Release Notes

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

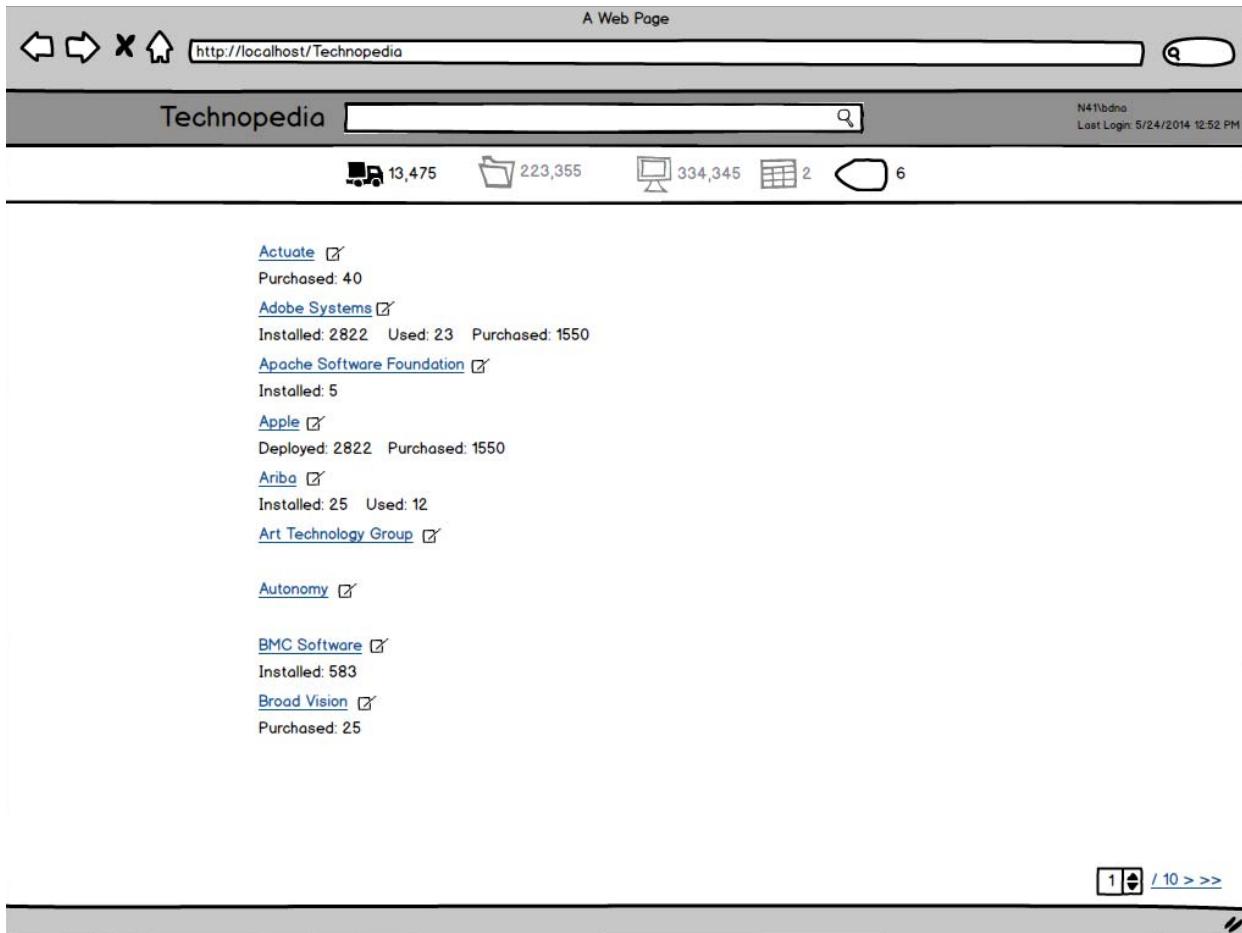
Figure 1:

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:

The screenshot shows a web browser window titled "A Web Page" with the URL "http://localhost/Technopedia". The page header includes the site name "Technopedia" and a search bar with the query "Microsoft Office 2013 Professional". Below the header, there are icons for various software categories: 1 document, 1 folder, 0 monitor, 1 grid, and 6 other items.

The main content area displays a table titled "Software Products" with the following data:

	SW Manufacturer	SW Family	SW Name	SW Major Version	SW Edition	SW Install Count	SW Used Count	SW Purchased
<input type="checkbox"/> Microsoft	Office	Office	2013	Professional	2530	453	10	

To the left of the table is a sidebar with a tree view under the heading "Software". The tree structure includes:

- SW Category
- SW Subcategory
- SW Manufacturer
- SW Family
- SW Name
- SW Major Version
- SW Minor Version
- SW Service Pack
- SW Edition
- SW Platform

Below the tree view are two additional sections:

- Software Lifecycle
- Software Readiness

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)

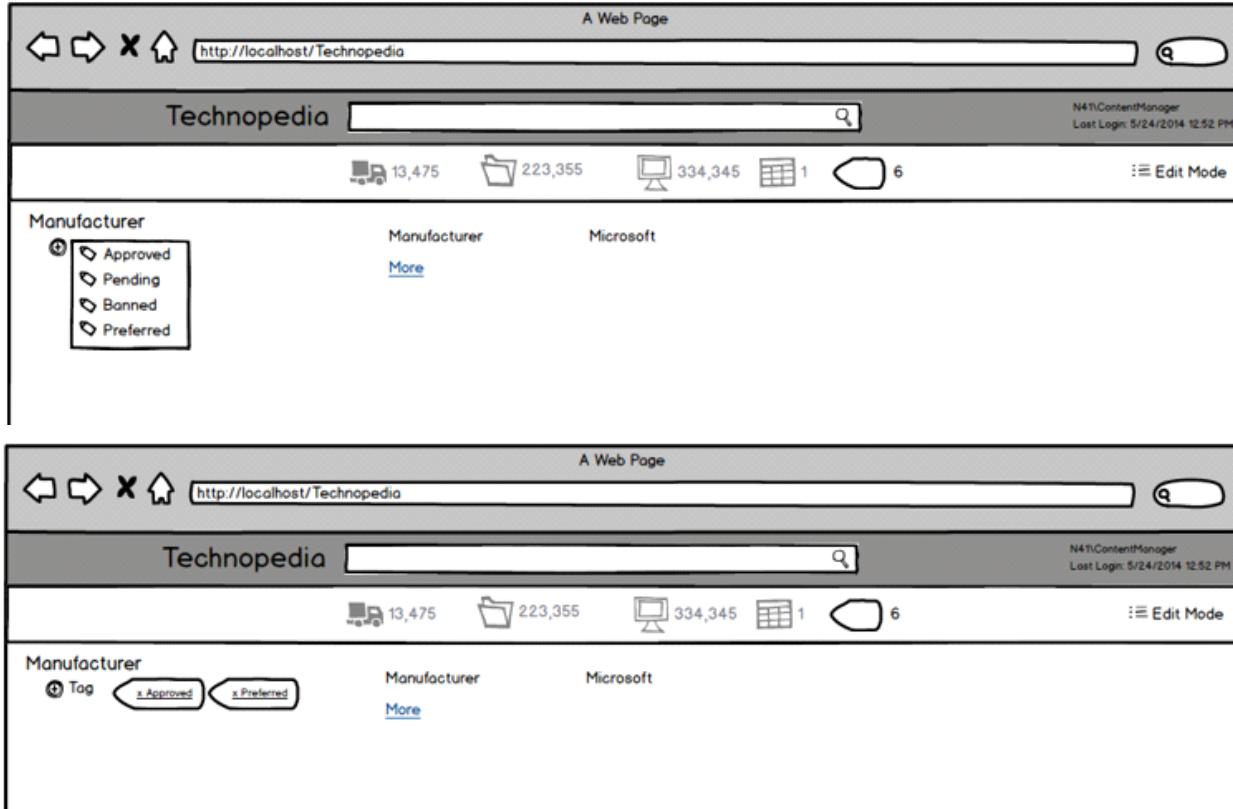
View Detail – View Mode (Extended)

View Detail – Edit Mode (TPC)

View Detail - Add Content Pack

Tag/Untag

Figure 4:



Tag Administration

Reports

Figure 5:

The screenshot shows a web page titled "Technopedia" at the URL <http://localhost/Technopedia>. The page has a header with navigation icons and a search bar. On the right, it shows a user login status: "N41\ContentManager" last logged in "5/24/2014 12:52 PM". Below the header, there are four main sections: "Software Templates", "My Reports", "My Group Reports", and "Normalize Mapping Reports".

- Software Templates:**
 - My EOL Products
 - [Default](#) [Un-Share](#) [Delete](#)
 - [OBS Software](#)
 - [Default](#) [Un-Share](#) [Delete](#)
 - [Software Products](#)
 - [Default](#) [N41\Administrator](#)
 - [Win 8 Migration](#)
 - [Default](#) [Share](#) [Delete](#)
 - Office Pro 2013 lifecycle**
 - [EOL Contract for Office](#)
 - My Reports**
 - My Office Pro 2013 EOL
 - [Share](#) [Delete](#)
 - My Office Win 8
 - [Un-Share](#) [Delete](#)
 - My Group Reports**
 - Win 7 Migration for BU0001
 - N41\asmith
 - LCM Datacenter
 - [Share](#) [Delete](#)
 - Normalize Mapping Reports**
 - Package Mapping
 - N41\administrator
 - File Mapping
 - N41\administrator

Normalize Mapping

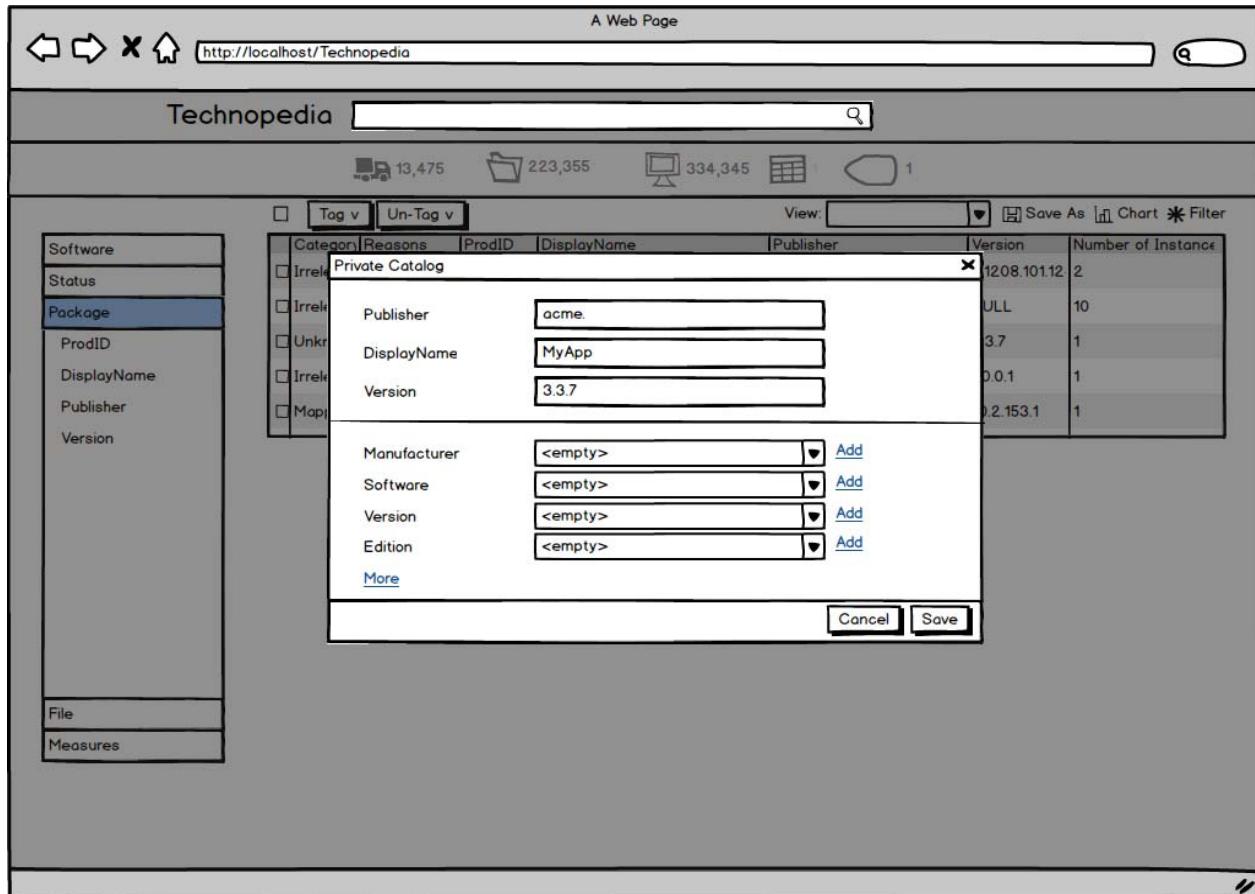
Figure 6:

The screenshot shows a web page titled "Technopedia" at the URL <http://localhost/Technopedia>. The page displays a list of software packages in a table format. On the left, there is a sidebar with various categories: Software, Status, Package (which is selected and highlighted in blue), ProdID, DisplayName, Publisher, and Version. Below these are File and Measures. At the top of the main content area, there are navigation icons (back, forward, search) and a toolbar with counters for 13,475, 223,355, 334,345, and 1. To the right of the toolbar are buttons for "View", "Save As", "Chart", and "Filter". The main table has columns: Category, Reasons, ProdID, DisplayName, Publisher, Version, and Number of Instance. One row for "MyApp" is selected and has a context menu open with three options: "Exclude MyApp", "Keep Only MyApp", and "Mark as Private". The "Mark as Private" option is highlighted in blue.

Category	Reasons	ProdID	DisplayName	Publisher	Version	Number of Instance
Irrelevant	Driver	wdeqdeal	Dell Touchpad	ALPS ELECTRIC CO	7.1208.101.12	2
Irrelevant	Miscellaneous	fsdfsdaf	VX2 Cleaner plug-in for Ad-Aw	Lavasoft	NULL	10
Unknown		sfgsgd	MyApp		3.3.7	1
Irrelevant	Hotfix	gsdgsgd	Software upd	Arch In Motion Ltd	10.0.1	1
Mapped		sdfadfsd	Adobe Flash	Systems Incorporat	10.2.153.1	1

Normalize Mapping – Add Private

Figure 7:



System Requirements

Software

Table 1: Software

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

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

Network Ports and Protocols

Table 3: Network Ports and Protocols

Port	Server	Protocol	Use
80 (default), 443	Application Server	HTTP, HTTPS	IIS ^a (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.

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.

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"> • Windows Server 2008 R2 • Windows Server 2012
Databases	<ul style="list-style-type: none"> • MS SQL Server 2008 R2 Express • MS SQL Server 2008, 2008 R2 • MS SQL Server 2012
MS ConfigMgr	<ul style="list-style-type: none"> • ConfigMgr 2007™ • ConfigMgr 2012™ RTM, SP1

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.

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)

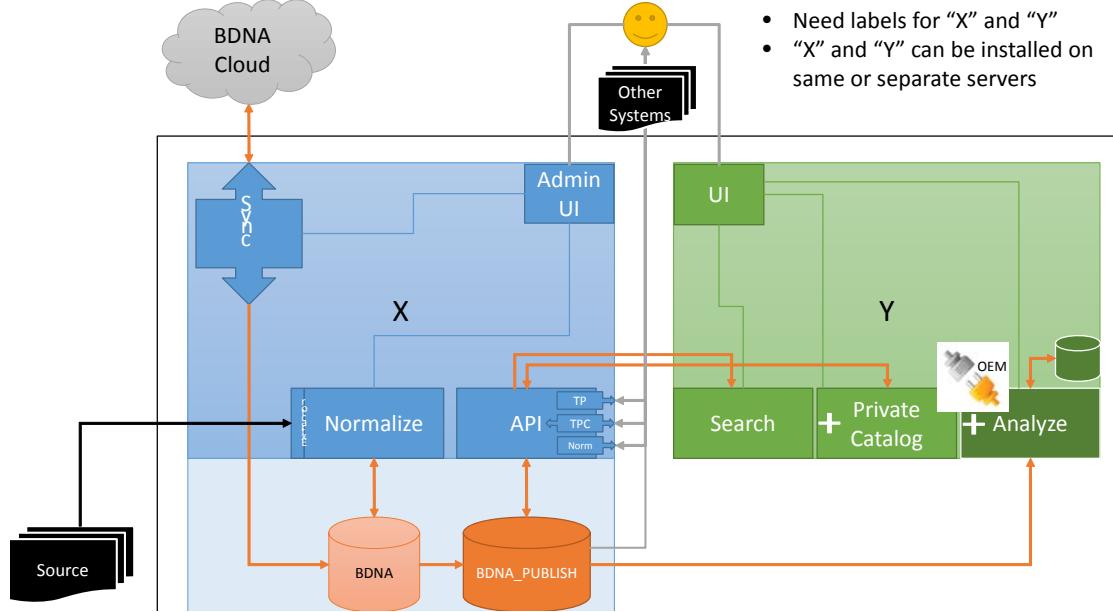


Figure 9:

User Interface

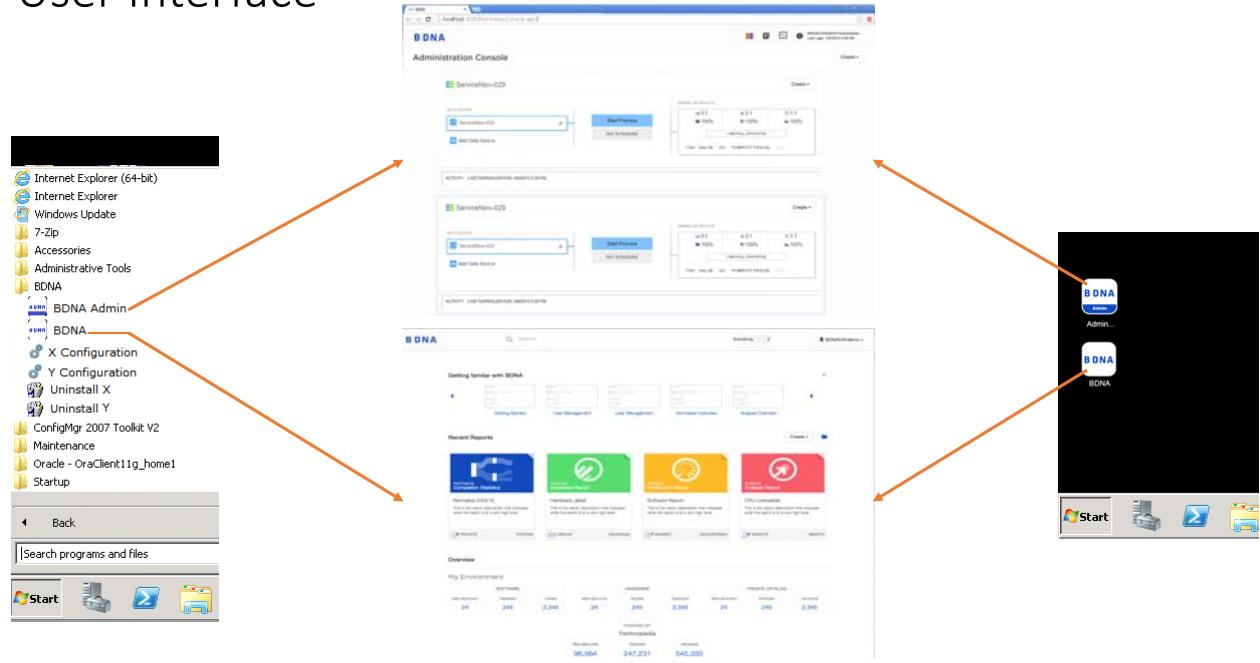


Figure 10:

End User Interface – Search Result

The screenshot shows a web browser window for BDNA at the URL 10.10.11.164:8080/BDNA/ui.aspx. The search bar contains "Microsoft Office". The main interface displays a grid of software products. A red box labeled "Technopedia data" points to the left sidebar. Another red box labeled "Analyze reports" points to a yellow icon in the top right. A third red box labeled "Normalize data" points to a green icon in the top right. In the top right corner, there are three status icons: "Installed" (grey dot), "Used" (blue dot), and "Purchased" (green dot).

Software	Category	Status
Microsoft Office 2000 Premium	Office	Installed, Used, Purchased
Microsoft Office 2007 Academic	Office	Installed, Used
Microsoft Office 2006 Lite	Office	Used
Microsoft Office XP Macintosh	Office	Purchased
Microsoft Office 2000 Developer	Office	Used
Microsoft Office 2 Starter	Office	Used

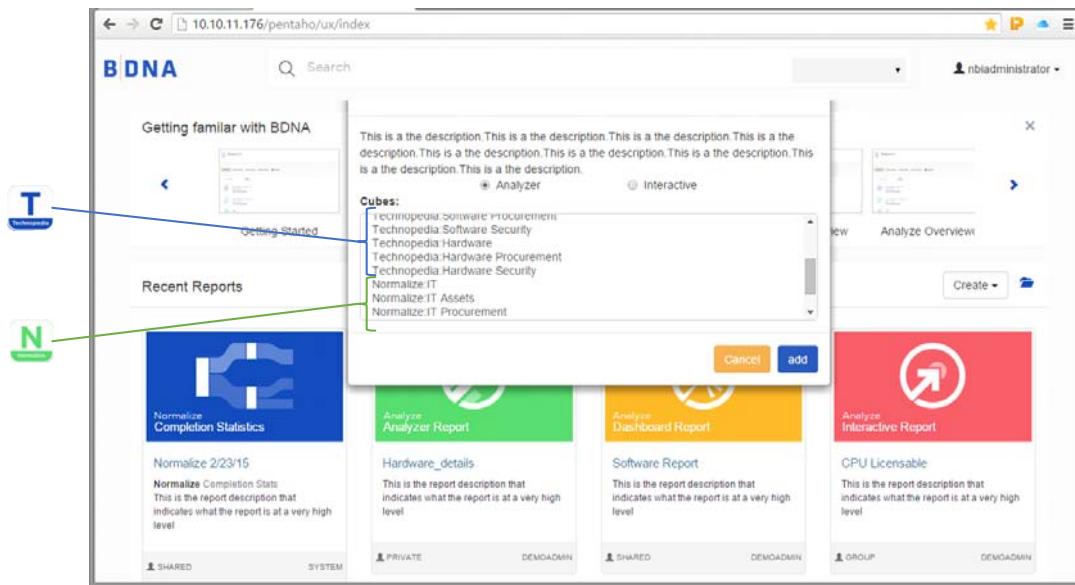
Figure 11:

End User Interface – Software Release

The screenshot shows a web browser window for BDNA at the URL 10.10.11.164:8080/pentaho/ux/index#/tpc/4. The title bar says "Microsoft Office 2003 v11 Professional". The left sidebar has a "T" icon and lists product details: Manufacturer (ACME), Category (Systems), Sub-Category (Productivity), Software Name (Office), Version Group (2003), Version (11), and Edition (Professional). The right sidebar has a "BONACndemo" dropdown and a menu with items: Manufacturer, Taxonomy, Software, Release, Market Data - Lifecycle, Market Data - Software Pricing, Private Mapping, and Back to top.

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;
```