

# DOCUMENTATION

## **Normalize Service**

### **Standard Report Definitions**

October 3, 2011

---

## Copyright

This manual and the BDNA software described in it are copyrighted, with all rights reserved. This manual and the BDNA software may not be copied, except as otherwise provided in your software license or as expressly permitted in writing by BDNA Corporation. Information in this manual is subject to change without notice. Please check with your BDNA authorized representative to make sure that you have the most recent information. © 2006-2010, BDNA Corporation. BDNA is a trademark of BDNA Corporation. Other names appearing may be trademarks of their respective owners. All rights reserved. Microsoft Internet Explorer is a registered trademark of Microsoft Corporation. Use of the BDNA software and any other software accompanying your license (“the Software”) and its documentation are governed by the terms set forth in your license. Such use is at your sole risk.

The Software and its documentation (including this manual), and BDNA’s software maintenance and extended maintenance, if applicable, are provided “as is” and without warranty of any kind, and BDNA and its licensors (hereinafter collectively referred to as “BDNA”) expressly disclaim all warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose and against infringement.

BDNA does not warrant that the functions contained in the software will meet your requirements, or that the operation of the software will be uninterrupted or error-free, or that defects in the software will be corrected. Furthermore, BDNA does not warrant or make any representations regarding the use or the results of the use of the software or its documentation in terms of their correctness, accuracy, reliability, or otherwise. No oral or written information or advice given by BDNA or a BDNA authorized representative shall create a warranty or in any way increase the scope of this warranty. Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply.

Under no circumstances, including negligence, shall BDNA, its licensors or their directors, officers, employees, or agents be liable for any incidental, special or consequential damages (including damages for loss of business, loss of profits, business interruption, loss of business information and the like) arising out of the use or inability to use the software or its documentation, even if BDNA or a BDNA authorized representative has been advised of the possibility of such damages. Some jurisdictions do not allow the limitation or exclusion of liability for incidental or consequential damages, so the above limitation or exclusion may not apply.

This product is protected by U.S. Patent 6,988,134, Patent 7,089,306.

Copyright (c) 2001-2010 BDNA Corporation and its licensors – All rights reserved

Unauthorized reproduction or distribution of this program or any portion hereof may result in severe civil and criminal penalties and will be prosecuted to the maximum extent allowed by law.

BDNA and the BDNA logo are trademarks of BDNA Corporation.

*Note:* The information in this document and all BDNA technical support policies are subject to change without notice.

Printed in the USA, October 3, 2011.

BDNA Corporation  
339 North Bernardo Avenue, Suite 206  
Mountain View, CA 94043  
USA  
Phone +1 650 625 9530  
Fax +1 650 625 9533  
[www.bdna.com](http://www.bdna.com)

# Normalize Service — Standard Report Definitions (ITC)

---

## About this Document

This document provides descriptions of the default reports generated by Normalize.

## Reports

### NormalizeHardware

**Definition:** List of Normalize machines per operating system and model.

**Filename:** NormalizeHardware.csv

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
OS Manufacturer	Operating System Manufacturer (e.g: Microsoft)
OS Name	Operating System Manufacturer (e.g: Windows XP)
OS Minor Version	Operating System Minor Version (e.g: 5.1)
OS Major Version	Operating System Major Version (e.g: XP)
OS Service Pack	Operating System Service Pack (e.g: SP3)
OS Edition	Operating System Edition (e.g: Professional)
Is Virtual	Is it a Virtual Machine ? (Values: Yes / No )
Category 1	Hardware Category 1 (e.g: Computers)
Category 2	Hardware Category 2 (e.g: Notebooks)
Manufacturer	Hardware Manufacturer (e.g: Dell)
Product	Hardware Product (e.g: Latitude)
Model	Hardware Model (e.g: D630)
CPU Manufacturer	CPU Manufacturer (e.g: Intel)
CPU Model	CPU Model (e.g: Core Duo Processor T2500 2.00 GHz)
CPU Speed (MHz)	CPU Speed in MHz(e.g: 1995)
Num of CPUs	Number of CPUs (e.g: 1)
Num of COREs	Number of COREs (e.g: 2)
RAM (MB)	Memory in MB (e.g: 2550)
HDD Total Space (GB)	Total Disk Space in GB (e.g: 74.5)

Label	Description
HDD Used Space (GB)	Used Disk Space in GB (e.g: 12.2)
HDD Available Space (GB)	Available Disk Space in GB (e.g: 62.3)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

### NormalizeHardwareLifeCycle

**Definition:** Lifecycle of the Normalize machines.

**Filename:** NormalizeHardwareLifeCycle.csv

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Is Virtual	Is it a Virtual Machine ? (Values: Yes / No )
Category 1	Hardware Category 1 (e.g: Computers)
Category 2	Hardware Category 2 (e.g: Servers)
Manufacturer	Hardware Manufacturer (e.g: IBM)
Product	Hardware Product (e.g: System X3650 M2)
Model	Hardware Model (e.g: 794752U)
General Availability	General Availability date (e.g: 4/30/2009)
Last Availability	Last Availability date (e.g: 12/31/2010)
Obsolete	Obsolete date (e.g: 12/31/2015)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

### NormalizeHardwareSpecifications

**Definition:** Hardware specifications of the Normalize machines (Model, PowerConsumption, EPAT, ...)

**Filename:** NormalizeHardwareSpecifications.csv

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Is Virtual	Is it a Virtual Machine ? (Values: Yes / No )
Category 1	Hardware Category 1 (e.g: Computers)
Category 2	Hardware Category 2 (e.g: Servers)

Label	Description
Manufacturer	Hardware Manufacturer (e.g: IBM)
Product	Hardware Product (e.g: System X3650 M2)
Model	Hardware Model (e.g: 794752U)
CPU Manufacturer	CPU Manufacturer (e.g: Intel)
CPU Model	CPU Model (e.g: Core Duo Processor T2500 2.00 GHz)
CPU Speed (MHz)	CPU Speed in MHz(e.g: 1995)
Num of CPUs	Number of CPUs (e.g: 1)
Num of COREs	Number of COREs (e.g: 2)
RAM (MB)	Memory in MB (e.g: 2550)
HDD Total Space (GB)	Total Disk Space in GB (e.g: 74.5)
HDD Used Space (GB)	Used Disk Space in GB (e.g: 12.2)
HDD Available Space (GB)	Available Disk Space in GB (e.g: 62.3)
Is Energy Star	Is it Energy Star ? (Values: Yes / No)
EPEAT Rating	EPEAT Rating (Values: Gold / Silver)
AC Power Avg/Typ	AC Power Avg/Typical (e.g: 400)
AC Avg Unit	AC Avg Unit (e.g: Watt)
AC Power Max	AC Power Max (e.g: 400)
AC Max Unit	AC Max Unit (e.g: watt)
DC Power Avg/Typ (Watt)	DC Power Avg/Typical (Watt) (e.g: 400)
DC Power Max (Watt)	DC Power Max (Watt) (e.g: 400)
AC Heat Diss. Avg/Typ (BTU/Hr)	AC Heat Diss. Avg/Typical (BTU/Hr) (e.g: 2730)
AC Heat Diss. Max (BTU/Hr)	AC Heat Diss. Max (BTU/Hr) (e.g: 5527)
DC Heat Diss. Avg/Typ (BTU/Hr)	DC Heat Diss. Avg/Typical (BTU/Hr) (e.g: 2730)
DC Heat Diss. Max (BTU/Hr)	DC Heat Diss. Max (BTU/Hr) (e.g: 5527)
Min Operating Temp (Deg.F)	Min Operating Temp (°F) (e.g: 41)
Max Operating Temp (Deg.F)	Max Operating Temp (°F) (e.g: 95)
Min Non-Operating Temp (Deg.F)	Min Non-Operating Temp (°F) (e.g: 41)

Label	Description
Max Non-Operating Temp (Deg.F)	Max Non-Operating Temp (°F) (e.g: 109)
Min Operating Humidity (%)	Min Operating Humidity (%) (e.g: 8)
Max Operating Humidity (%)	Max Operating Humidity (%) (e.g: 80)
Min Non-Operating Humidity (%)	Min Non-Operating Humidity (%) (e.g: 5)
Max Non-Operating Humidity (%)	Max Non-Operating Humidity (%) (e.g: 95)
Power Rating	Power Rating (e.g: 100-127/200-240 VAC, 50-60 Hz, ---)
AC In Single/Low Voltage Min	AC Input Single/Low Setting Voltage Min (Volt AC) (e.g: 100)
AC In Single/Low Voltage Max	AC Input Single/Low Setting Voltage Max (Volt AC) (e.g: 127)
AC In Single/Low Current Min	AC Input Single/Low Setting Current Min (Amp) (e.g: 2)
AC In Single/Low Current Max	AC Input Single/Low Setting Current Max (Amp) (e.g: 2)
AC In High Voltage Min	AC Input High Setting Voltage Min (Volt AC) (e.g: 200)
AC In High Voltage Max	AC Input High Setting Voltage Max (Volt AC) (e.g: 240)
AC In High Current Min	AC Input High Setting Current Min (Amp) (e.g: 3)
AC In High Current Max	AC Input High Setting Current Max (Amp) (e.g: 3)
AC Frequency Min (Hz)	AC Frequency Min (Hz) (e.g: 50)
AC Frequency Max (Hz)	AC Frequency Max (Hz) (e.g: 60)
DC Single/Low Voltage	DC Single/Low Setting Voltage (Volt DC) (e.g: 20)
DC Single/Low Current	DC Single/Low Setting Current (Amp) (e.g: 4)
DC High Voltage	DC High Setting Voltage (Volt DC) (e.g: 14)
DC High Current	DC High Setting Current (Amp) (e.g: 3)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

### NormalizeHardwareWin7Readiness

**Definition:** List of Normalize machines compatible or not compatible with Windows 7.

**Filename:** NormalizeHardwareWin7Readiness.csv

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
OS Manufacturer	Operating System Manufacturer (e.g: Microsoft)
OS Name	Operating System Manufacturer (e.g: Windows XP)
OS Minor Version	Operating System Minor Version (e.g: 5.1)
OS Major Version	Operating System Major Version (e.g: XP)
OS Service Pack	Operating System Service Pack (e.g: SP3)
OS Edition	Operating System Edition (e.g: Professional)
Win 7 - Readiness	Is the machine compatible to Windows 7 ? (Values: Compatible, Not Compatible, N/A)
Win7 - RAM Compatibility	Is the machine has the minimum requirements of memory for Windows 7 ? (Values: Yes, No, N/A)
Win7 - CPU Compatibility	Is the machine has the minimum requirements of CPU speed for Windows 7 ? (Values: Yes, No, N/A)
Win7 - HDD Compatibility	Is the machine has the minimum requirements of available disk space for Windows 7 ? (Values: Yes, No, N/A)
Is Virtual	Is it a Virtual Machine ? (Values: Yes / No )
Category 1	Hardware Category 1 (e.g: Computers)
Category 2	Hardware Category 2 (e.g: Notebooks)
Manufacturer	Hardware Manufacturer (e.g: Dell)
Product	Hardware Product (e.g: Latitude)
Model	Hardware Model (e.g: D630)
CPU Manufacturer	CPU Manufacturer (e.g: Intel)
CPU Model	CPU Model (e.g: Core Duo Processor T2500 2.00 GHz)
CPU Speed (MHz)	CPU Speed in MHz(e.g: 1995)
Num of CPUs	Number of CPUs (e.g: 1)
Num of COREs	Number of COREs (e.g: 2)
RAM (MB)	Memory in MB (e.g: 2550)
HDD Total Space (GB)	Total Disk Space in GB (e.g: 74.5)
HDD Used Space (GB)	Used Disk Space in GB (e.g: 12.2)
HDD Available Space (GB)	Available Disk Space in GB (e.g: 62.3)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

## NormalizeSoftware

**Definition:** List of Normalize Software per machine.

**Filename:** NormalizeSoftware.csv

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Publisher	Publisher name (e.g: Microsoft)
Family	Family name (e.g: Office)
Software Name	Software name (e.g: PowerPoint Viewer)
Component	Component name (e.g: Client)
Minor Version	Minor Version (e.g: 12)
Major Version	Major Version (e.g: 2007)
Edition	Edition (e.g: Standard)
Service Pack	Service Pack (e.g: SP1)
Category 1	Software Category 1 (e.g: Applications)
Category 2	Software Category 2 (e.g: Productivity)
Is Suite	Is it a Suite ? (Values: Yes / No)
Is Licensable	Is it a Licensable software ? (Values: Yes / No)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

## NormalizeSoftwareSuite

**Definition:** List of Normalize Suite and Components per machine.

**Filename:** NormalizeSoftwareSuite.csv:

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Suite - Publisher	Suite - Publisher name of the Suite (e.g: Microsoft)
Suite - Family	Suite - Family name of the Suite (e.g: Office)
Suite - Software Name	Suite - Suite name (e.g: Office)
Suite - Component	Suite - Component name of the Suite (e.g: Server)



Label	Description
Suite - Minor Version	Suite - Minor version of the Suite (e.g: 12)
Suite - Major Version	Suite - Major version of the Suite (e.g: 2007)
Suite - Edition	Suite - Edition of the Suite (e.g: Professional)
Product - Publisher	Product installed under the Suite - Publisher name (e.g: Manufacturer)
Product - Family	Product installed under the Suite - Family name (e.g: Office)
Product - Software Name	Product installed under the Suite - Software name (e.g: Word)
Product - Component	Product installed under the Suite - Component name (e.g: Client)
Product - Minor Version	Product installed under the Suite - Minor version (e.g: 12)
Product - Major Version	Product installed under the Suite - Major version (e.g: 2007)
Product - Edition	Product installed under the Suite - Edition (e.g: Professional)
Product - Category 1	Product installed under the Suite - Software category 1 (e.g: Applications)
Product - Category 2	Product installed under the Suite - Software category 2 (e.g: Word Processing)
Product - Is Licensable	Product installed under the Suite - Is it a licensable component? (Values: Yes / No)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

### NormalizeSoftwareLifeCycle

**Definition:** Lifecycle of the Normalize Software.

**Filename:** NormalizeSoftwareLifeCycle.csv

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Publisher	Publisher name (e.g: Microsoft)
Family	Family name (e.g: Office)
Software Name	Software name (e.g: PowerPoint Viewver)
Component	Component (e.g: Client)
Minor Version	Minor Version (e.g: 12)
Major Version	Major Version (e.g: 2007)
Edition	Edition (e.g: Standard)
Service Pack	Service Pack (e.g: SP1)
Is Licensable	Is it a Licensable software ? (Values: Yes / No)
General Availability	General Availability date (e.g: 12/3/2007)

Label	Description
End Of Life - Support Level	End Of Life (EOL) - Support Level (e.g: Mainstream Support (2-Level Policy))
End Of Life	End Of Life (EOL) date (e.g: 4/10/2012)
Obsolete - Support Level	Obsolete - Support Level (e.g: Extended Support)
Obsolete	Obsolete date (e.g: 7/10/2018)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

## NormalizeSoftwareMapping

**Definition:** Mapping used during the Software normalization.

**Filename:** NormalizeSoftwareMapping.csv:

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Discovered - Source	Discovered - Source used for the Software identification (Values: Add/Remove, Exe)
Discovered - Publisher	Discovered - Publisher name used for the Software identification (e.g: Microsoft Corporation)
Discovered - Name	Discovered - Display name / File name used for the Software identification (e.g: Microsoft Office Visio Viewer 2007)
Discovered - Version	Discovered - Version used for the Software identification (e.g: 12.0.6425.1000)
Publisher	Publisher name (e.g: Microsoft)
Family	Family name (e.g: Office)
Software Name	Software name (e.g: Visio Viewer)
Component	Component (e.g: Client)
Minor Version	Minor Version (e.g: 12)
Major Version	Major Version (e.g: 2007)
Edition	Edition (e.g: Standard)
Service Pack	Service Pack (e.g: SP1)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

## NormalizeSoftwareWin7Readiness

**Definition:** List of Compatible and/or Not Compatible Normalize Software to Windows 7.

**Filename:** NormalizeSoftwareWin7Readiness.csv:

Label	Description
MachineID	ID of the machine in the discovery source (e.g: ResourceID for SCCM)
Hostname	Machine name
Serial Number	Serial Number
Publisher	Publisher name (e.g: Microsoft)
Family	Family name (e.g: Office)
Software Name	Software name (e.g: Visio Viewer)
Component	Component (e.g: Client)
Minor Version	Minor Version (e.g: 12)
Major Version	Major Version (e.g: 2007)
Edition	Edition (e.g: Standard)
Service Pack	Service Pack (e.g: SP1)
General Availability	General Availability date (e.g: 11/9/2006)
Is Free	Is it a free software ? (Values: Yes / No)
End Of Life	End Of Life (EOL) date (e.g: 7/9/2013)
Win 7 - Readiness	Windows 7 Compatible Status (values: Compatible, Not Compatible/EOL, Required Compatibility Check)
Win 7 - Compatible Version	Windows 7 Compatible Version (e.g: Visio Viewer 14.0)
Win 7 - Recommended Upgrade	Is an upgrade recommended ? (Values: Yes, No, N/A)
Active Machine	Is it an Active Machine? (Values: Yes / No) (e.g: Field Active0 in SCCM)

### PerAddRemove

**Definition:** List of Add/Remove entries loaded in Normalize by categories (Mapped, Irrelevant, and Unknown).

**Filename:** PerAddRemove.csv:

Label	Description
Task ID	Internal Normalize ID
Data Source	Discovery Tool (e.g: SCCM)
Category	Normalize Category (Values: Mapped, Irrelevant, Unknown)
Reasons	If "Category=Irrelevant", this column is populated with the justification (e.g: Hotfix)
Product ID	Add/Remove - ProdID (e.g: KB979306)

Label	Description
Displayed Name	Add/Remove - Display Name (e.g: Hotfix for Windows XP (KB979306))
Publisher	Add/Remove - Publisher (e.g: Microsoft Corporation)
Version	Add/Remove - Version (e.g: 1)

## PerCatExe

**Definition:** List of Executable entries loaded in Normalize by categories (Mapped, Irrelevant, and Unknown).

**Filename:** PerExecutable.csv:

Label	Description
Task ID	Internal Normalize ID
Data Source	Discovery Tool (e.g: SCCM)
Category	Normalize Category (Values: Mapped, Irrelevant, Unknown)
Reasons	If "Category=Irrelevant", this column is populated with the justification (e.g: setup)
FileID	Executable - FileID (e.g: 5842559)
File Name	Executable - File Name (e.g: DriverRemove.exe)
File Description	Executable - File Description (e.g: Windows Setup API)
File Version	Executable - File Version (e.g: 5.00.2195.1620)
File Size	Executable - File Size (e.g: 25667)
Company Name	Executable - Company Name (e.g: Windows (R) 2000 DDK provider)
Product Name	Executable - Product Name (e.g: Windows (R) 2000 DDK driver)
Product Version	Executable - Product Version (e.g: 5.00.2195.1620)
Product Language	Executable - Product Language (e.g: 1033)

## RsStatistics

**Definition:** Statistics of the normalization process by Executable and Add/Remove entries.

**Filename:** OverallStatistics.csv:

Label	Description
Type	Type of the discovered data (Values: Add/Remove, EXE)
Inventory ID	Internal Normalize ID
Task ID	Internal Normalize ID
Total	Total number of raw data - Known + Unknown - (e.g: 4080080)
Known	Number of data known by Normalize - Mapped + Irrelevant - (e.g: 3934011)
Mapped	Number of data mapped by Normalize (e.g: 755954)
Irrelevant	Number of data flagged as Irrelevant by Normalize (e.g: 3178057)

<b>Label</b>	<b>Description</b>
Unknown	Number of data unknown by Normalize (e.g: 146064)
Known Perc(%)	Percentage of data known by Normalize (e.g: 96.42)
Unknown Perc(%)	Percentage of data unknown by Normalize (e.g: 3.58)

