JDisc Discovery 4.0

Feature Sheet

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Contents

1 Discovery Features....3
1.1 Hardware....3
1.2 Software....4
1.3 Databases....6
1.4 License Keys....6
1.5 Support Entitlement Information....6
1.6 Virtualization....7
1.7 User....7
1.8 Blade Server Discovery....8
1.9 Cluster Discovery....8
1.10 REST APIs....9
1.11 Printer Discovery....9
1.12 WLAN Discovery....9
1.13 Detailed Router/Switch Discovery....9
1.14 Dependencies....10
1.15 Device History....10
2 Reporting Capabilities....11
3 Document Management....12
4 Customization....13

1 Discovery Features

This document provides a detailed overview of JDisc Discovery's discovery capabilities.

1.1 Hardware

The table shows all hardware items that JDisc Discovery can collect for each platform.

	Windows	Linux	Free BSD	Solaris	HP-UX	AIX	MAC OS X	VMware ESX Server	Oracle VM Server	Other SNMP devices
Model	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manufacturer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serial number	✓	✓	✓	✓ [1]	✓	✓	✓	✓	✓	✓ [2]
Memory modules	✓	✓	✓	✓ [3]	✓	✓ [3]	✓	✓	✓	
Network interfaces IPv4, IPv6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [4]
Processors	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SIM Cards	✓									
Physical disks	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Disk partitions	✓	✓	✓					✓	✓	
Logical disks	✓	✓		✓	✓	✓	✓	✓	✓	
Video controller	✓	✓						✓	✓	
Attached monitors	✓ [5]									
Local printers	✓	✓								
Local scanners	✓	✓								
Local card readers	✓	✓								
Firmware info	✓	✓	✓	✓	✓		✓	✓	✓	✓ [2]

1 Sun does not expose the serial number. JDisc Discovery collects the hostid instead.
2 If available in the device's MIB
3 Only total memory available
4 IPv4 only
5 Windows stores monitor information in the registry only, if the monitor is switched on before the computer is turned on!

1.2 Software

JDisc Discovery identifies many operating system attributes and collects installed software on computers. Moreover JDisc Discovery also discovers database software and database instances for Oracle, Sybase, Postgres, and Microsoft SQL Server. JDisc Discovery detects Veritas and Microsoft Clusters, their members, and the implemented cluster services.

	Windows	Linux	Free BSD	Solaris	HP-UX	AIX	MAC OS X	VMware ESX Server	Oracle VM Server	Other SNMP devices
OS Version	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [6]
OS Family	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [1]
OS Patch level	✓	✓ [7]	✓							
OS Serial number	✓	✓		✓ [8]	✓	✓	✓	✓	✓	✓
OS System type	✓	✓	✓	✓	✓	✓	✓	✓	✓	
OS Install date	✓	✓			✓			✓	✓	
OS Uptime	✓	✓	✓		✓	✓			✓	✓
OS Owner	✓									
OS Locale	✓									
Installed software	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Installed services	✓		✓	✓						
Installed patches	✓			✓	✓	✓				
Installed drivers	✓	✓		✓				✓	✓	
Installed Windows Server Features	✓									

6 For many SNMP devices (e.g. Cisco router, HP network printer)
7 Kernel version is identified as patch level.
8 Solaris hostid is interpreted as serial number. Sun does not expose the system serial number electronically through any command line tool or API.
9 When the host mib is supported.

	Windows	Linux	Free BSD	Solaris	HP-UX	AIX	MAC OS X	VMware ESX Server	Oracle VM Server	Other SNMP devices
Installed executables	✓	✓	✓							
Running processes	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Oracle database and its instances	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Sybase database and its instances	✓	✓	✓	✓	✓	✓	✓			
Postgres database and its instances	✓	✓	✓	✓	✓	✓	✓			
MS SQL Server database and its instances	✓									
IBM DB2 database and its instances	✓	✓	✓	✓	✓	✓	✓			
Scalable Performance Data Server (SAS)		✓		✓	✓	✓	✓			
MySQL Databases and its instances	✓	✓	✓	✓	✓	✓	✓			
IBM WebSphere and its deployed applications	✓	✓		✓	✓	✓				
Oracle WebLogic and its deployed applications	✓	✓		✓	✓	✓				
JBoss and its deployed applications	✓	✓		✓	✓	✓	✓			
MS Exchange and its mailboxes	✓									
IBM InfoSphere and its applications		✓		✓	✓	✓				

1.3 Databases

JDisc Discovery can collect device details such as databases, schemas, and tables for many databases.

	Databases incl. size	Schemas incl. size	Tables incl. size
IBM DB2	✓	✓	✓
MariaDB	✓	✓	✓
Microsoft SQL Server	✓	✓	✓
MySQL	✓	✓	✓
Oracle DB	✓	✓	✓
Postgres	✓	✓	✓
SAP MaxDB	✓	✓	✓
Sybase	✓	✓	✓
MongoDB	✓	✓	✓
Vertica	✓	✓	✓
Progress DB	✓	✓	✓

1.4 License Keys

JDisc Discovery collects license keys for these applications:

Software	**Versions**
Windows	Starting from Windows XP
Microsoft Office	Starting from Microsoft Office 2003
Microsoft SQL Server	Starting from Microsoft SQL Server 2003
Microsoft Visual Studio	Starting from Microsoft Visual Studio 2003
Adobe Software	Almost all software
Veritas Software (such as Cluster Manager, Volume Manager)	Veritas Software license keys on Unix and Windows
AutoDesk Software	Almost all versions.

1.5 Support Entitlement Information

JDisc Discovery can collect support entitlement information for devices by connecting to the manufacturer's support pages and extracting relevant warranty and support entitlement information.

We are collecting this information for the following manufacturers:

- Dell

1.6 Virtualization

JDisc Discovery supports a variety of virtualization technologies. Depending on the virtualization technology and login credentials, JDisc Discovery can detect a virtual machine's instance type (e.g. VMware instance, HyperV instance, ...) up to the relationship to its physical host.

	Detect instance type	Determine host to virtual instance relationship	Find relation to management server (e.g. vSphere for VMware)	Determine clustering	Find offline VMs
VMware ESX Server	✓	✓	✓	✓	✓
VMware ESXi Server	✓	✓	✓	✓	✓
VMware Server	✓ (on Windows and Linux)	✓			
Microsoft HyperV	✓	✓		✓	✓
Citrix XenServer	✓	✓		✓	✓
Solaris Zones	✓	✓			✓
Solaris LDoms	✓	✓			
HP Integrity VM	✓	✓			✓
HP Integrity vPars	✓				✓
Xen	✓	✓			
Kvm	✓	✓		✓	✓

Oracle VM Server	✓	✓			
Parallels	✓				
Virtual Iron	✓				
IBM AIX LPAR	✓	✓	✓		
Docker	✓	✓			✓
LXC	✓	✓			✓

1.7 User

JDisc Discovery discovers local and logged on users on computers. Logged on user information can be aggregated over a configurable interval.

Additionally, JDisc Discovery detects terminal services connections, such as Citrix or Microsoft Remote Desktop and displays logged on users including the client (or thin client) computer from they are connecting from.

JDisc reads user and user group information from Microsoft's Active Directory.

1.8 Blade Server Discovery

JDisc Discovery discovers blade server enclosures and built-in blades and maintains the blades to enclosure relationship.

	Detect blade enclosures	Blade server to blade enclosure relationship
IBM BladeCenter	✓	✓
IBM Flex Server	✓	✓
HP Blades	✓	✓
Dell Blades	✓	✓
Cisco UCS Blades	✓	✓

1.9 Cluster Discovery

JDisc Discovery identifies Veritas and Microsoft Clusters, detects the cluster members and the corresponding cluster services.

	Windows	Linux	Free BSD	Solaris	HP-UX	AIX	MAC OS X	VMware ESX	Oracle VM Server	Other SNMP

								Server		devices
Veritas Cluster	✓	✓		✓	✓	✓				
Microsoft Cluster	✓									
HP Service Guard					✓					
Red Hat Cluster		✓								
VMware ESX Cluster								✓		
MS HyperV Cluster	✓									
CitrixXen Server Cluster		✓								
KVM		✓								
Solaris Cluster				✓						
IBM AIX						✓				
VRRP										✓
HSRP										✓

1.10 REST APIs

There are many devices which expose a REST API in order to gather device information. The REST APIs usually require authentication. Since the REST API is based on an HTTP(s) server, the account information is configured in our HTTP(s) default account section.

We can scan the following devices using the REST API:

- Barco ClickShare
- Dell Unity Disk Arrays

1.11 Printer Discovery

JDisc Discovery discovers the ink and toner level for all major network printers. Discovering the toner level for local USB printers is not supported.

1.12 WLAN Discovery

When the Networking Add-On is installed and licensed, JDisc Discovery discovers WLANs and access points that are within the range of Windows computers. Moreover JDisc Discovery also determines the WLAN connection speed for connected WLANs.

1.13 Detailed Router/Switch Discovery

With the optional Networking Add-On, JDisc Discovery detects the layer 2 and layer 3 topology for your network using CDP (Cisco Discovery Protocol), LLDP (Link Layer Discovery Protocol), or by using the MAC port forwarding entries within the bridge mib. Graphical network maps visualize the network topology.

Furthermore, we collect configuration files from Cisco and HP ProCurve switches.

JDisc Discovery detects VLANs for many switches.

	Cisco	HP ProCurve	Others
Layer 2 Topology using CDP	✓	✓	✓ (when CDP MIB supported)
Layer 2 Topology using LLDP	✓	✓	✓ (when LLDP MIB supported)
Layer 2 Topology using MAC forwarding entries (from Bridge MIB)	✓	✓	✓
Configuration File Collection	✓	✓	
VLAN Discovery	✓	✓	✓ (with VLANs in Bridge MIB supported)
Interface Annotation	✓		

1.14 Dependencies

With the optional Dependency Mapping Add-On, JDisc Discovery detects the list of open ports and the TCP/IP connections for devices on your network. Graphical maps visualize the dependencies.

1.15 Device History

Keep track of the changes of your network with the optional Device History Add-On. Create device snapshots at any time to review them later. Compare snapshots for individual devices and highlight changes.

2 Reporting Capabilities

JDisc Discovery provides a flexible reporting system including a variety of standard reports.

Export reports to CSV format	✓
Export reports to Excel	✓
Scheduled reports to the file system	✓
Sort columns	✓
Change column order	✓
Display the SQL query associated to a report[10]	✓
Custom reports	✓
Custom report conditions	✓
Save custom reports for future use	✓
More than 30 standard reports	✓
Interlinked reports allowing to drill down to more detailed information	✓

10 A useful feature for integrating JDisc Discovery data into other systems such as Configuration Management Databases (CMDBs).

3 Document Management

JDisc Discovery can manage your IT related documents such as User Manuals, Support Contracts, operations instructions.

Import any kind of document into JDisc Discovery's database	☑
Open documents from JDisc Discovery's user interface	☑
Export documents to your local file system	☑
Assign documents to custom attributes for individual devices	☑
Use documents in your custom reports	☑

4 Customization

JDisc Discovery can be customized in many ways.

Defined custom attributes.	✓
Populate custom attributes by reading Windows registry values.	✓
Populate custom attributes by executing scripts and binaries on Unix and Windows computers.	✓
Add custom attributes to custom reports.	✓
Create custom discovery scripts to identify non-standard (“homegrown”) applications on Windows and Unix.	✓
Easy to configure file collection and command execution.	✓