RAYVENTORY®

The most comprehensive Solution for Discovery and Inventory of Software and Hardware

Release Notes
RayVentory Portal 11.1

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Release Notes RayVentory Portal

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www.raynet.de

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Introduction

RayVentory Portal provides a complete set of products for operating system (OS) inventory, as well as Oracle database, VMware vSphere / ESX, and SNMP inventory. The software includes components which perform:

- Discovery and import of devices and services,
- Agent based and agentless (remote execution, zero-touch) inventory,
- Interfaces for communication between clients and RayManageSoft / RayVentory Distribution and Administration Servers,
- PowerShell automation library to automate daily tasks,
- Task scheduler service to trigger inventories and other operations at specified intervals.

Simplified deployment, flexible configuration, and handful of different inventory methods wrapped in the user friendly interface of RayVentory Portal to provide flexibility for network administrators and IT managers with minimal impact on the existing infrastructure.

This new release 11.1 is a major upgrade to the previous release, which contains several major product improvements, new features, and resolved issues.

What's New?

Feature Highlights

New User Interface `RMS-3500`, `RMS-3569`, `RMS-3132`, `RMS-3691`, `RMS-3636`

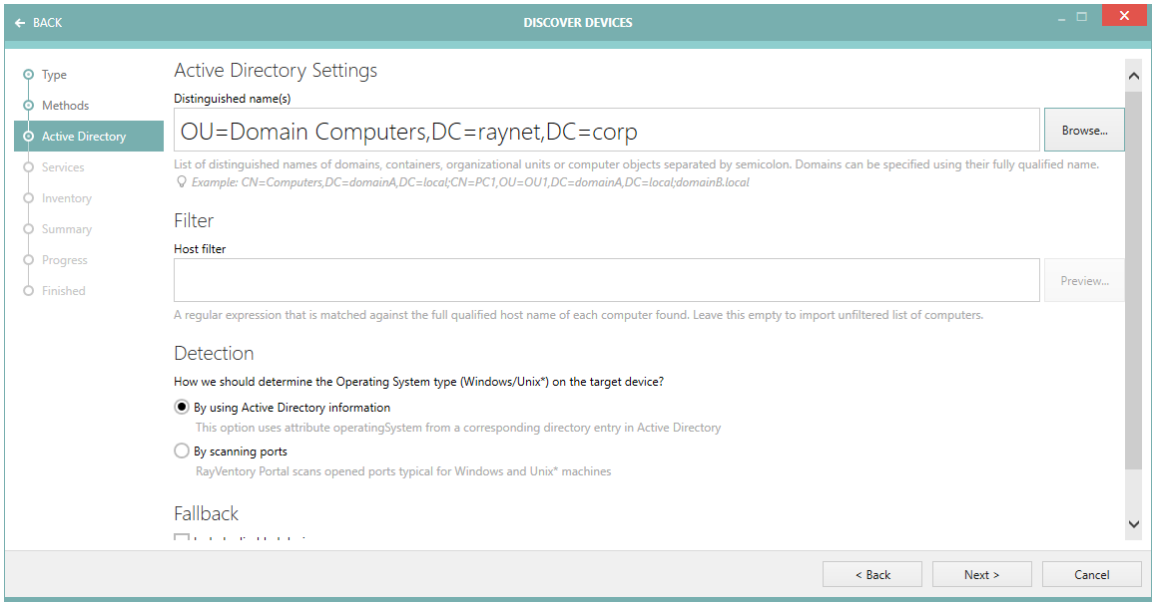
This update contains a major overhaul of the User Interface.

We reworked the basic concepts and added many new dialogs and wizards to guide the user through common tasks. These highlights and features include:

- New wizards for Inventory and Discovery.
- A new view for connections (named **Devices + Services** in this release) with a visual overview of the assets.
- A new dashboard with quick facts about the assets.
- A new inventory viewer for inventoried devices.
- A redesigned and reorganized **Settings** screen with the grouping of similar functionalities.
- A centralized place where notifications and quick actions are shown.

Configurable Detection of Device Types Discovered from the Active Directory RMS-3666, RMS-3617

It is now possible to define the type of the operating system scan that is performed during the Discovery.



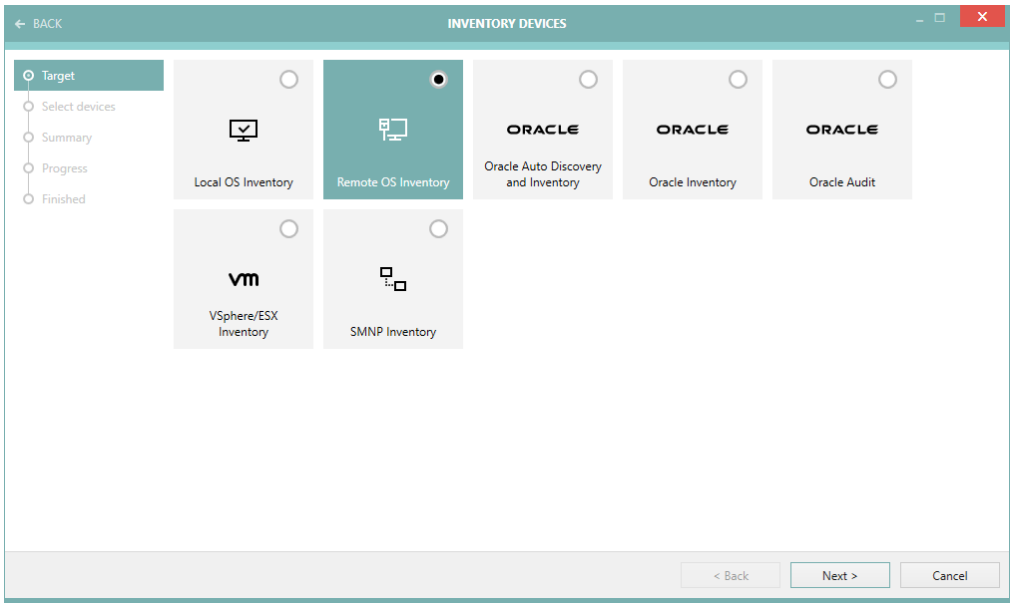
The following two options are available for selection:

- Port probing (legacy methodology) which scans for open ports to determine the type of the device.
- Active Directory attribute analysis, which parses the data from AD attributes and uses it to determine the type of the device.

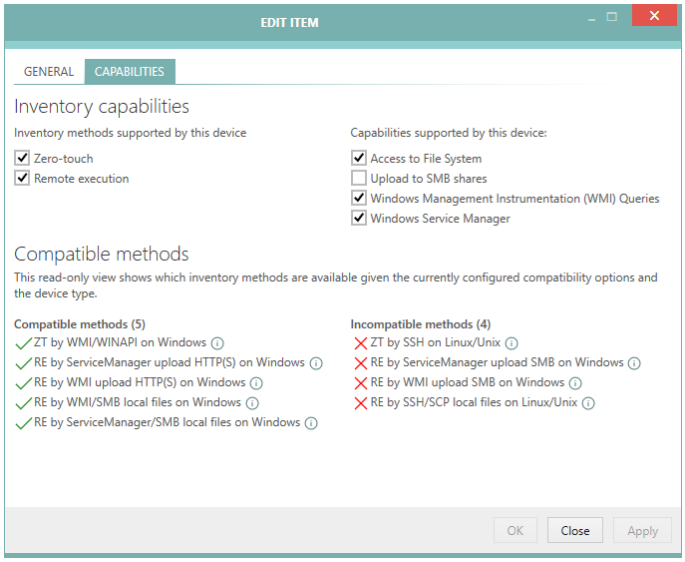
This new setting makes it possible to perform a fast and secure discovery of Active Directory devices without any kind of unnecessary network traffic.

Support for Agentless Remote Execution Inventory and Other Methods RMS-3665, RMS-3676

The previous version supported agentless zero-touch scanning of computers and services. In this release, we complement the agentless inventory methods by several additional agent based methods. The new intelligent inventory can adjust to certain environment restrictions as it learns which inventory methods work for a particular device and picks the adequate method.



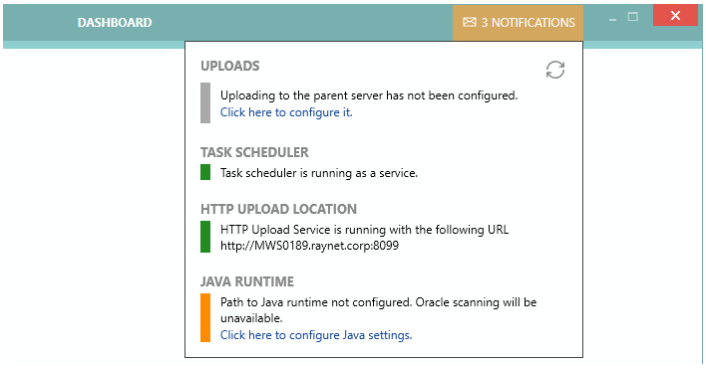
Capabilities and supported methods can be defined and limited on device-basis, which lets administrators configure granular capabilities of their devices which allows RayVentory Portal to always pick up the right execution method for particular devices.



The remote execution uses an optional UNC share for helper files and the product settings were extended to include fine tuning of their options.

Lightweight HTTP Server for File Uploads and Remote Execution RMS-3547

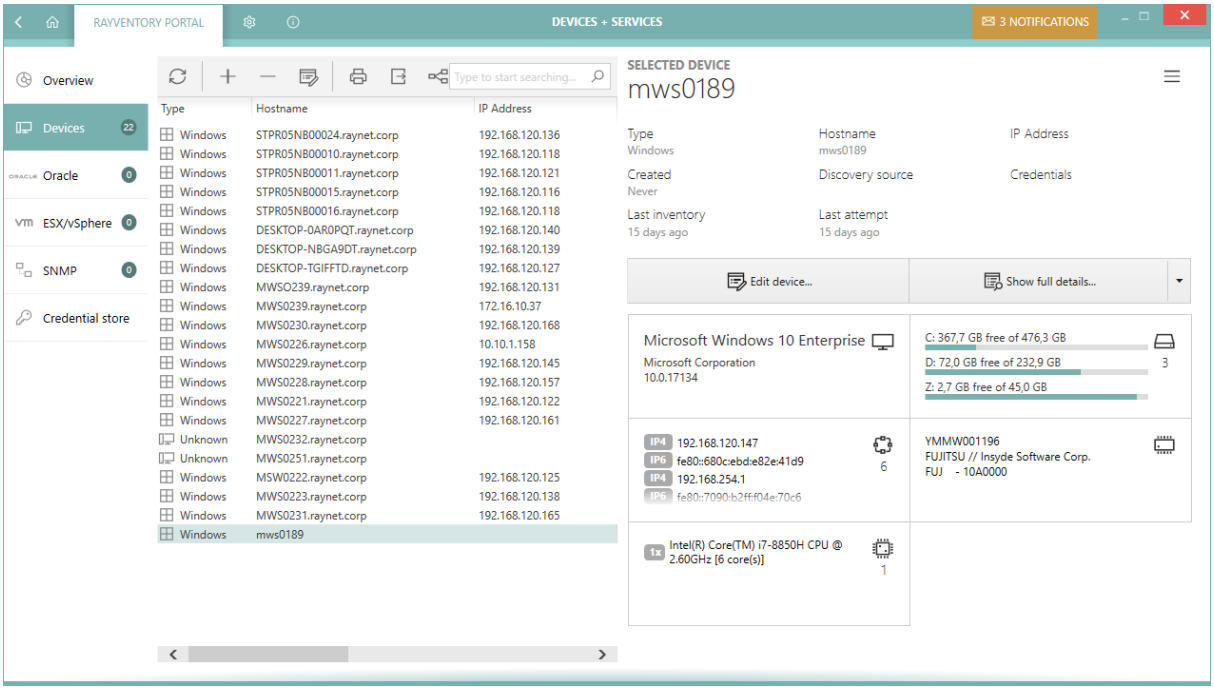
Depending on the configuration, a lightweight HTTP Upload Service is either started as a service or during product launch.



The service is used internally to collect inventory data coming from machines, that are scanned using Remote Execution Agent-based Inventory. Additionally, the HTTP Upload Service is fully compatible with the RayManageSoft / RayVentory 10.x and 11.x infrastructure, which means that RayVentory Portal 11.1 is able to function as a lightweight Distribution Server, removing most of the technical dependencies on the RayManageSoft / RayVentory infrastructure of Distribution Servers. To use the upload location for manual jobs started via the `ndtrack.exe`, the user can simply copy the URL address of the HTTP Upload Service which is displayed in the Notification Center Area.

Inventory Viewer and Improved Recent Items View RMS-3704

The inventoried content of devices and services saved in the database can be easily viewed by a new inventory viewer.



It shows basic facts in the sidebar and more details when expanded to a full view, either as overlay for a quick

overview or as a custom pop-up window which can be moved and arranged, providing an easy way to compare machines and their inventories. The Inventory viewer is contextually sensitive and shows different data for supported connection types - for example, a list of running Virtual Machines for VMware ESX / ESXi inventory, a list of network adapters for computers, a list of server features for Windows Server machines, etc.

Discovery and Inventory of SMNP RMS-3496

This release adds SNMP scanning capabilities to the list of supported connection types (including the operating system, VMware ESX / ESXi, and Oracle databases from the previous release).

PowerShell Automation Library RMS-3519

Most common operations, like Inventory, Discovery, Upload, and more are now scriptable via the new PowerShell Module bundled with the product. The PowerShell automation API allows to perform all operations which can be configured via the Scheduling UI plus extra capabilities to work with the list of connections (querying, selecting, filtering, exporting).

Inventory Data Contains Service Tags for Managed Objects from VMware ESX / ESXi Inventory RMS-3529

The improved VMware scanner is able to detect Service Tags assigned to managed objects and reports them back in NDI files.

Importing Filtered List of Devices from Active Directory RMS-3730

The extended configuration of Active Directory Discovery has been upgraded to allow users to define custom patterns (using Regular Expressions) which are used to filter out the devices that should be imported. This saves time on custom script-based solutions and is a native functionality of the Discovery Wizard from version 11.1.

Other New Features and Improvements

- RMS-3480 It is now possible to perform the license activation directly from the **Installation Wizard**.
- RMS-3520 It is now possible to operate on IP ranges (for example `192.168.170.20-192.168.170.40`) in the Discovery by network scan.
- RMS-3565 The view of the Scheduled Task screen has been redesigned and improved.
- RMS-3626 When running RayVentory Portal for the first time, an automatic migration of 10.6 data will be performed if applicable.
- RMS-3499 The inventory files are not removed anymore after a successful upload. This offers the possibility to view them later on in the **Devices + Services** view.
- RMS-3500 the look and feel of the **Import Devices** dialog has been improved, including a live preview of the imported CSV layout.

- RMS-3529 The default installation uses the <ProgramData> folder as the default place where configuration, logs, and files are stored. In version 11.0 <AppData> was used for that purpose.
- RMS-3916 There have been many under-the-hood improvements to Zero-Touch Scanning on UNIX machines (for example the improved network configuration scan, better version recognition, and more).
- RMS-3880 Oratrack for Java 1.4 has been added.
- RMS-3916 The hard drive capacity is now reported in the .ndi files.
- RMS-3920 The scanning of inventories on Solaris systems has been improved.
- RMS-3933 ORATRACK is now logging its output (for diagnostic purposes).
- RMS-3935 In **RIU**, we fallback to /usr/sbin/dmidecode in case dmidecode fails.

Resolved Issues

The following is the list of issues that have been resolved in RayVentory Portal in 11.1.

- RMS-3333 The executing inventory action on Windows devices was not working when the timeout for Windows Remote Inventory was set to 0.
- RMS-3338 A scheduled task could not be started for the second time if a job was created to be executed twice.
- RMS-3423 ORATRACK was not working with Java 10.
- RMS-3476 It was not possible to edit a scheduled task while it was running.
- RMS-3480 Some headers were duplicated for the *OS connection import* operation.
- RMS-3514 After creating an user without elevated rights the password field was not visible.
- RMS-3502 The keyboard handling for date time fields was inconsistent.
- RMS-3513 In some places in the UI credentials were shown in clear text.
- RMS-3518 When editing the vSphere connection details the credential type was wrongly pointing to UNIX credentials.
- RMS-3530 ORATRACK was reporting superfluous entries about the certificate check.
- RMS-3541 In the **Scheduler** it was not possible to configure Active Directory scans with distinguished names having non alpha-numeric characters (for example underscore).
- RMS-3578 Even though some devices were hidden by using grid filtering, executing an inventory on all visible connections actually included hidden ones too.
- RMS-3584 When the inventory of a device failed due to authentication issues, its credentials were detached from the connection.
- RMS-3605 When using CIDR notation for Discovery by network scan (ping sweep), some devices were not found.
- RMS-3622 When creating a scheduled OS inventory scan via the **Targets defined by list** option, no host names were displayed once the list was created.
- RMS-3650 Insufficient entropy of the file name generator could cause collisions in NDI files names from incoming inventory data.
- RMS-3653 After performing Active Directory Discovery, IP addresses of devices which could be resolved were not written back into the connection list.
- RMS-3655 The `ndtrack.exe` did not properly trace debug information.
- RMS-3694 When adding a new job to the scheduled tasks, the initial value was incorrect which immediately triggered validation error notifications.
- RMS-3727 The remote inventory of Fedora and RedHat devices was reporting incorrect values for the CPU count, cores count, and related properties.

- RMS-3736 In some cases, the next execution time for a scheduled task was calculated incorrectly.
- RMS-3727 The reading of the CPU core / thread count delivered incorrect results.
- RMS-3913 Connecting to some Oracle instances returned the error "**did you check login as SYSDBA?**".
- RMS-3916 The reading of the OS Version using Zero-Touch UNIX Methods delivered wrong results on some distributions.
- RMS-3982 ESX scanning for VM always returned no more than 100 virtual machines trimming the rest.

Known Issues

For a list known issues in RayVentory Portal refer to the Raynet Knowledge Base. If there are any known issues, the respective information can be found here and will be kept up-to-date.

System Requirements

Hardware Requirements

This section lists the minimal hardware requirements for devices running RayVentory Portal.

Minimal

- Screen resolution: 1024 x 768 pixels
- Color settings: 16 bit
- RAM: 2GB
- Disk space: 100MB

Recommended

- Screen resolution: 1280 x 1024 pixels
- Color settings: 32 bit
- RAM: 4GB or higher
- Disk space: 1GB or more

Note:
The installation of the RayVentory Portal framework itself requires about 400MB of disk space. The amount of additional space needed depends on the size and number of incoming inventory results.

Prerequisite Software

General Prerequisites

The following operating systems are supported for the installation and running of RayVentory Portal at the time of release.

- Windows Vista
- Windows 7
- Windows 8
- Windows 8.1

- Windows 10
- Windows Server 2008 SP1-SP2
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016

Required Software

- .NET Framework 4.5.2

Operating System Inventory

The following systems are supported:

- Windows 2016 Server
- Windows 2012 R2 Server
- Windows 2012 Server
- Windows 2008 R2 Server Core
- Windows 2008 R2 Server
- Windows 2008 Server Core
- Windows 2008 Server
- Windows 2008 Server Core x64
- Windows 2008 Server x64
- Windows 10
- Windows 10 x64
- Windows 8.1
- Windows 8.1 x64
- Windows 8
- Windows 8 x64
- Windows 7
- Windows 7 x64
- Windows Vista
- Windows Vista x64
- RedHat Linux 8 and 9
- RedHat Enterprise Linux 3, 4, 5, 6, 6.1

- SuSE Professional/OpenSuSE 9, 10, 11
- SuSE Enterprise Server (SLES) 9, 10, 11
- Mac OS X 10.8, 10.9, 10.10
- Windows XP
- Windows XP x64
- Windows 2003 R2 Server
- Windows 2003 R2 Server x64
- Windows 2003 Server
- Windows 2003 Server x64
- Solaris 9, 10, 11 (Intel)
- Solaris 8, 9, 10, 11 (SPARC)
- CentOS 6.x, 7.x
- Fedora 21
- AIX 5.2, 5.3, 6.1, 7.1
- HP-UX 11.00, 11i, 11i v2, 11iv3

Required Software

- Java SE Runtime Environment (build 1.6.0) (Mac OS X agent inventories only)

VMware ESX/ESXi Inventory

The following platforms are supported:

- VMware ESX Server 3.0 and higher
- VMware ESXi Server
- VMware vCenter Server

Oracle Inventory

The following database components are supported:

- Oracle Database 9i
- Oracle Database 10g
- Oracle Database 11g
- Oracle Database 12c

Required Software

- Java Runtime 1.4.2 - Java 10
- Any operating system supporting Oracle JRE

Additional Information

Visit *www.raynet.de* for further information on RayVentory Portal, and take a look at the additional resources available at the Knowledge Base: *http://knowledgebase.raymanagesoft.com*.

Raynet is looking forward to receiving your feedback from your RayVentory Portal experience. Please contact your Raynet service partner or use our Support Panel to add your ideas or requirements to the RayVentory Portal development roadmap!

More information on RayVentory can be found in the *Release Notes with Technical Specifications* for RayVentory.

RayVentory Portal is part of the RaySuite

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