

Quest® IT Security Search 11.4

Release Notes

August 2018

These release notes provide information about the Quest® IT Security Search release.

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About this release

IT Security Search provides IT administrators, IT managers and security teams with a way to navigate the expanse of information about the enterprise network.

New features

New features in IT Security Search 11.4:

- **Hybrid AD objects in search results**
With advanced Enterprise Reporter integration it is now possible to get up-to-date data and fully support Hybrid AD Security scenarios by searching through hybrid static data (Azure AD, Azure PaaS and IaaS)

resources) and hybrid events data provided by Change Auditor Office 365 and Azure Active Directory Auditing. A filter is available for Azure objects in the **More** tab in the results grid, and you can pin it as a new tab for convenience.

- **Redesigned History tab**

On the History tab, where applicable, you can now work in two modes: Changes or Backups. The Changes mode lets you see the changes made to individual object attributes and roll back these changes in any combination. The Backups mode shows the latest backup states (three by default), and you can restore any of these states on a per-object basis.

See also:

- [Enhancements](#)
- [Resolved issues](#)

Enhancements

Table 1: General enhancements

Enhancement	Issue ID
Records about Enterprise Reporter objects of any type can now be stored in the IT Security Search Warehouse data store.	IS-729
IT Security Search can now use HTTPS for secure communication with its Warehouse data store.	IS-918
The IT Security Search Warehouse component now uses the native Windows message queue implementation for guaranteed record delivery.	IS-1149
IT Security Search now forms better InTrust repository queries, resulting in more efficient repository searches.	IS-1138

Resolved issues

The following is a list of issues addressed in this release.

Table 2: Resolved issues

Resolved Issue	Issue ID
In some cases, retrieval of Enterprise Reporter data can fail with an error like the following: "Cannot insert duplicate key row".	IS-1099
After a server reboot, IT Security Search services can fail to start automatically.	IS-1094
In data from Recovery Manager for Active Directory and Active Roles, the value of the Description field for users doesn't come from Active Directory.	IS-1093
The IT Security Search service stops at the end of every Enterprise Reporter data refresh due to arithmetic overflow errors.	IS-1110

Resolved Issue	Issue ID
If there haven't been any Active Roles events for a long time, the Data Attendant component still performs searches since the last known event, without checking if the search is necessary.	IS-1117
If you provide an invalid configuration for the Enterprise Reporter connector (for example, by leaving a mandatory field empty), clicking the Test Connection link doesn't give you a clue that you should correct the options.	IS-1114
When you export search results containing Unicode characters to CSV, the output is not a valid UTF-8 file, so viewer software such as Excel displays garbage instead of the Unicode characters.	IS-1236
IT Security Search fails to display the "Search expired" warning when it is needed.	IS-1204
Creation and modification dates are shown incorrectly or missing for found file objects if the date format on the client puts the day before the month.	IS-1261
The date format in the results grid is always the same regardless of the date format settings on the client.	IS-312

Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

Table 3: General known issues

Known Issue	Issue ID
IT Security Search Warehouse component may become inaccessible in case you re-install IT Security Search into the same organization where previously IT Security Search has been deployed.	IS-1256

Root-cause: Newly installed server will receive new identification and data collected by a server with another ID will not be available for it.

Workaround:

1. In InTrust Deployment Manager select **Storage** tab
2. On each Repository that have exclamation sign on the right panel on Security section, click **Edit** link
3. Specify valid InTrust server in **Managed by this server** combobox. Click **Apply**.

After the reconfiguration is finished, the following services should be started on IT Security Search server:

- **Quest IT Security Search Warehouse API**
- **Quest IT Security Search Active Roles Data Attendant**

It is recommended to either deploy a separate InTrust organization for IT Security Search every time you install the server or always perform the reconfiguration. InTrust system protects data collected by a specific server and prevents unauthorized access even for queries from the same computer.

Known Issue	Issue ID
Internet Explorer becomes unresponsive when IT Security Search shows a modal dialog box on top of the browser windows. You can work around this by minimizing all windows and clicking the close button in the modal window; Internet Explorer resumes working.	IS-360
After an IT Security Search upgrade, the layout of the controls in the web interface can appear broken (missing blocks of data, misplaced elements and so on). You can correct this by refreshing the page, preferably with a cache cleanup (Ctrl+F5).	—
During the IT Security Search Warehouse installation step of IT Security Search setup, an unused service connection point is created in Active Directory. This operation is skipped if the user account used for installation doesn't have the required privileges. Whether or not the service connection point is created, this has no effect on the installation or operation of IT Security Search.	IS-954
If you are upgrading IT Security Search from version 11.3 or later and you use data sending from Enterprise Reporter 3.0, you may need to go to Enterprise Reporter Configuration Manager and resend all data to IT Security Search. Otherwise, no pre-upgrade Enterprise Reporter data will be available to IT Security Search.	—

System requirements

Before installing IT Security Search 11.4, ensure that your system meets the following minimum hardware and software requirements.

Compatibility

The following versions of data-providing systems are supported in this version of IT Security Search:

- InTrust 11.3.2, 11.3.1, 11.3, 11.2
- Change Auditor 7.0, 6.9.5, 6.9.4, 6.9.3, 6.9.2, 6.9.1, 6.9, 6.8
- Enterprise Reporter 3.1, 3.0, 2.6, 2.5.1
- Recovery Manager for Active Directory 9.0.1, 9.0, 8.8.1, 8.8, 8.7.1, 8.7
- Active Roles 7.2.1, 7.2, 7.1, 7.0

Software Requirements

- Operating system:
 - Microsoft Windows Server 2016
 - Microsoft Windows Server 2012 R2
 - Microsoft Windows Server 2012
 - Microsoft Windows Server 2008 R2

- Additional software:
 - Microsoft .NET Framework 4.6.2 or later
 - Microsoft Windows PowerShell 3.0 or later
 - Microsoft SQL Server 2012 or later (all editions)
This is a requirement of the IT Security Search Warehouse component, which needs it for internal configuration management.
- Additional requirements for the Recovery Manager for Active Directory connector:
 - Enable remote commands in Windows PowerShell. For details, see <https://technet.microsoft.com/en-us/magazine/ff700227.aspx>.
 - The PowerShell script execution policy must be set to **RemoteSigned**. Run the following cmdlet:
`Set-ExecutionPolicy RemoteSigned`
- Additional requirements for the Active Roles connector:
 - Active Roles Management Tools
 - The PowerShell script execution policy must be set to **RemoteSigned**.

Browser Compatibility

The IT Security Search Web interface works correctly with the following browsers:

- Microsoft Edge
- Microsoft Internet Explorer 11
- Google Chrome 40.0 or later
- Mozilla Firefox 35.0 or later

The minimum supported monitor resolution is 1024x768.

Hardware Requirements

- CPU: 6 cores minimum; 16 cores recommended
- RAM: 8GB minimum; 16GB or more recommended
- Disk: 200GB (SSD recommended); disk space requirements are very dependent on the volume of Enterprise Reporter and Active Roles data being processed, because the index size varies proportionally; the indexes for Change Auditor, Recovery Manager for AD and InTrust data do not consume any disk space on the IT Security Search computer, because they are located in the data stores used by these systems
- If you deploy on a virtual machine, make sure the CPU and memory requirements above are met, and do not overload the virtual machine host

To find out the disk requirements for IT Security Search installation, consider the sections below. They describe how much disk space is used for indexing data provided by specific connectors.

Disk Space for Legacy Enterprise Reporter Data

These numbers are for a sample environment with 10000 of each type of Enterprise Reporter object. Scale the values according to your own circumstances.

Object type	Size of an index entry	Number of objects	Size of the index
Computers	1KB	10000	10MB
Files	0.2KB	10000	2MB
Groups	2.5KB	10000	25MB
Shares	1KB	10000	10MB
Users	2KB	10000	20MB
Total		50000	67MB

Disk Space for Enterprise Reporter Data in Warehouse

These are the average index entry sizes for each type of Enterprise Reporter object. Use them in calculating the required disk space for your particular on-premises or hybrid environment.

Note that there are generally multiple index entries per object, depending on how often objects are changed.

Object type	Average size of an index entry, in kilobytes
AD Permissions	2.1
AD Contacts	3.3
Computers	1.6
Groups	1.5
Files	1.5
OUs	2.3
Shares	2.1
Users	1.6
Azure Applications	1.6
Azure Contacts	1.6
Azure Devices	5
Azure Groups	1.4
Azure Network Security Groups	2.2
Azure Resource Groups	1.5

Object type	Average size of an index entry, in kilobytes
Azure Resource Subscriptions	5
Azure Resources	1.6
Azure Roles	1.4
Azure Service Principals	1.5
Azure Tenants	2.8
Azure Users	3.4
Azure Virtual Machines	2.5

Disk Space for Active Roles Event Data

An index entry for a single Active Roles event in IT Security Search Warehouse takes 0.5KB on average. Estimate the event rate in your environment to calculate the required disk space.

Disk Space for InTrust and Change Auditor Data

To display InTrust and Change Auditor events, IT Security Search uses the built-in indexes in InTrust and Change Auditor data stores, so no additional disk space is required.

Where to Install

It is recommended that you install IT Security Search in the same domain as the servers of your data-providing systems: InTrust, Enterprise Reporter, Change Auditor, Recovery Manager for Active Directory and Active Roles. Do not install IT Security Search on any of those systems' servers.

Product licensing

This product does not require licensing.

Upgrade and installation instructions

Installation instructions

To set up IT Security Search, run the **ITSearchSuite.exe**. You can customize the installation path and the port that will be used for getting data.

! **CAUTION:** When you specify the organization and configuration database for the Warehouse component during installation of a new instance of IT Security Search, do not select an existing InTrust or Warehouse organization or configuration database. If you do, that database can become corrupted. Always create a new organization and configuration database for each instance.

Upgrade instructions

Upgrade is supported for IT Security Search 11.3.2, 11.3.1, 11.3, 11.2.1, 11.2 and 11.1.

To upgrade IT Security Search, simply install the new version on top of the previous one. Let setup reuse the existing configuration settings.

More resources

Additional information is available from [online product documentation](#).

Globalization

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

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This product contains the following third-party components. For third-party license information, go to <http://www.quest.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (*) is available at <https://opensource.quest.com>.

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Component	License and/or Acknowledgement
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Microsoft.Owin.Host.HttpListener 3.1.0	Microsoft.Owin 1
Microsoft.Owin.Hosting 3.1.0	Microsoft .NET Library 1.0
Moment.js 2.22.2	MIT

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