

Getting Started with

**RES ONE**®

**Workspace**

File Hash Monitor

Version 10.1.0.0

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## Chapter 1: Introduction

RES ONE Workspace File Hash Monitor is a companion tool to RES ONE Workspace. It simplifies security whitelisting if you deploy new applications via a third-party tool such as Microsoft System Center or IBM BigFix, or if you deploy them manually by storing them on a file share.

RES ONE Workspace File Hash Monitor eliminates the need to manually configure Authorized Files and file hashes in the RES ONE Workspace Console for any distributed applications, as it allows you to automatically import and update these in your RES ONE Workspace environment.

This document guides you through the installation of the RES ONE Workspace File Hash Monitor and explains how to configure it.

## Chapter 2: Installation

### 2.1 Prerequisites

Prerequisites	
Software (RES)	<ul style="list-style-type: none"><li>• RES ONE Workspace 2015 or higher Management Console</li><li>• RES ONE Workspace File Hash Monitor<ul style="list-style-type: none"><li>• The installation file RES ONE Workspace File Hash Monitor 10.1.0.0.msi is available for download at <a href="http://success.res.com">http://success.res.com</a></li></ul></li></ul>
Software (general)	<ul style="list-style-type: none"><li>• Microsoft .NET Framework 4 or higher</li><li>• <i>Optional</i> - only necessary when using archive files:<ul style="list-style-type: none"><li>• Program that can handle the extracting of archive files. It is recommended to use a program that can handle different file extensions, for instance, 7-Zip.</li></ul></li></ul>
Account	Administrator rights to install software on the target computer
Service Account	Access to Management Console Go to the RES ONE Workspace File Hash Monitor service, select <b>This account</b> and specify the credentials of the Service Account.

## 2.2 Installing RES ONE Workspace File Hash Monitor

To start using the RES ONE Workspace File Hash Monitor, install the MSI file `RES ONE Workspace File Hash Monitor 10.1.0.0.msi` on the machine on which the RES ONE Workspace Console is installed.

When installing the RES ONE Workspace File Hash Monitor, the **Setup Wizard** will guide you through the installation process. During the installation, you also configure the RES ONE Workspace File Hash Monitor in the **Configuration** window.

## 2.3 Configuration

In the **Configuration** window, four tabs are available:

- Configuration
- Directories
- Extraction
- Hashing

### Configuration

On the **Configuration** tab, specify the **Import interval**. At this interval (in minutes) the **Directories to scan** that are specified on the **Directories** tab are scanned for new files for which file hashes need to be calculated.

Archive files that are found when scanning directories and their subdirectories (Directories to scan are specified on the **Directories** tab), are extracted at the location specified for **Working temp directory**. In the working temp directory, SHA-256 file hashes are calculated for the files with the extensions that are specified on the **Hashing** tab. These calculated file hashes are then put in the CSV output file.

Please note that the full path to the **CSV output file** must be specified. The CSV output file with the new SHA-256 file hashes is imported into the RES ONE Workspace Console whenever it contains new file hashes (after a scan of the directories for new files).

### Directories

Specify the credentials (**Username** and **Password**) of the account that has access to the location where the **Directories to scan** are located (network share). If no credentials are specified here, the credentials of the Service Account that was specified for the RES ONE Workspace File Hash Monitor service will be used.

The full path to the **Directories to scan** must be specified. Any subdirectories in the specified **Directories to scan** will also be scanned.

### Extraction

Select **Enable extracting of archive files** if files are stored in archive files. If this option is selected, make sure a program is available that can handle the extracting of archive files. It is recommended to use a program that can handle different file extensions, for instance, 7-Zip.

Add any additional or remove existing **Archive file extensions to extract**. By default, the file extensions `.cab`, `.exe`, `.msi`, `.msp`, `.rar`, `.zip` are filled in. Please note that not all extracting programs can handle all these file extensions.

At **Path to executable**, specify the extraction program you want to use. When using 7-Zip, the entry for **Parameters** (below **Path to executable**), is filled in automatically.

At **Parameters**, the markers `<file-path>` and `<folder-path>` must be used along with the parameters of the extraction program specified at **Path to executable** (for 7-Zip this line is filled in automatically). The marker `<file-path>` will automatically be replaced by the archive file path that was identified when scanning the directories and their subdirectories (the **Directories to scan** are specified on the **Directories** tab). For the marker `<folder-path>`, the location that is specified for **Working temp directory** on the **Configuration** tab will be used and the File Hash Monitor will add some additional information that is needed.

The following command-line options are specified by default to optimize performance when using 7-Zip:

- `-y` (assume **Yes** on all queries): prevents, for example, overwrite messages during extraction.
- `-p` (assume a blank password): prevents a 15 second timeout when encountering a password-protected file for which the password is not provided. Because the file cannot be extracted, its hash will not be calculated.

Please refer to the documentation of your extracting program of choice for similar or additional command-line options.

### Hashing

Add any additional or remove existing **Extensions to be hashed**. By default, the file extension `.exe` is filled in.

When you click **OK**, you return to the **Setup Wizard**, which you can then close by clicking **Finish**.

## Chapter 3: RES ONE Workspace Console

At the configured **Import interval**, the new file hashes will be imported into the RES ONE Workspace Console. At **Security > Data > Authorized Files**, you can view the Authorized Files and their related file hashes.

The following applies when importing file hashes for Authorized files into the Management Console:

- For each imported rule, the system checks if there are existing Authorized Files (global and application-level) that match the imported combination of authorized executable and additional process.
- If one or more matches are found, then:
  - If the imported file hash is not yet listed in the matching Authorized Files, it is added to them. The file hash will be imported with the Mode “Allow”.
- Rules in the import file are processed top-down, so if the import file contains multiple rules that update the same Authorized File or file hash, the end result depends on the order in which the rules appear in the file.

## Chapter 4: RES Support

At RES, our core business is to help heighten productivity in your organization. RES Support helps us to achieve this goal, and has been embedded in the core principles of our company since it was founded. RES is dedicated to supporting everyone who uses or wants to use its proven products with RES Support, which elevates our enterprise solutions above and beyond technology.

**Support** - If you are experiencing difficulties with any of our products, you may find the solution in our Knowledge Base (**Success Center > Support**) or you can contact RES Support directly (**Success Center > Click Contact Us**).

**Product Upgrades and Service Releases** - To upgrade your version of RES ONE Workspace to the latest standard, you can install Product Upgrade Packs from <http://www.res.com> and Service Releases from the **Success Center > Downloads**. The supporting documentation consist of Online Help (available via F1 in the Console), Release Notes and Administration Guide (**Success Center > Downloads**).

**Solution Assurance** - To protect your investment, it is mandatory that you purchase one initial year of Solution Assurance with each license purchase. Solution Assurance unlocks access to Technical Support, Product Updates and Upgrades and the Knowledge Base. Solution Assurance is extended automatically, unless you specify otherwise.

**Early Adopter Program** - Participants of the Early Adopter Program are actively involved in taking RES solutions to the next level. The Early Adopter Program unlocks access to interim releases of our products. These releases are production-ready and allow you to test drive and explore new functionality.

**RES Community** - RES invites you to become part of our community to share best practices and tips with fellow IT professionals, find solutions and more (**Success Center > Q&A**).

Please visit the **RES Success Center** (<http://success.res.com>) for more information on **Support**.

## Chapter 5: RES Training

RES has developed a mix of learning materials to help our customers and channel partners get the most out of our products. Our goal is to give you a choice in how you learn; whether that is in the classroom, online tutorials and virtual workshops, or downloading our self-study kits. Please visit the Academy at RES Success Center (<http://success.res.com>) or go to <http://res.com/support/training> to find more information on Training.

**RES Academy** - RES Academy provides an engaging way to learn about RES products and technologies. It consists of short video tutorials, including practice questions, informative links and more. These tutorials cover a broad range of subjects: from planning, installing and configuring an environment to using the functionality of the RES product.

**Workshops** - For customers and partners RES organizes free interactive online workshops. These one-hour events are intended for experienced users of our software and deal with specific use cases and troubleshooting. Due to the interactive nature of these workshops, the number of seats per session is limited.

**Training Classes** - For partners and customers, RES has developed several technical courses that deal with the installation and configuration of RES ONE Workspace, RES ONE Automation and RES ONE Identity Director. These technical courses are offered by RES Authorized Learning Centers (RALCs).

**RES Certification** - RES offers a certification program designed to validate IT professionals with the technical capabilities and expertise needed to effectively use the RES product portfolio, giving companies the confidence that their IT employees have the skills and experience needed to be successful.