

# Spider Software Recognition Center

Explanation to upload

Module version 6.2

# spider

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## Imprint

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## CHAPTER 1

# Software Recognition Center

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## 1.1 Introduction

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The recognition module recognizes license-relevant software products on inventorized computer systems. Data from the scans of hardware, files and programs are used. The recognition is based on a comparison of known file and program signatures with a signature catalog and additional recognition rules.

In order to ensure that the recognition rules used in your company and the signature catalog can reliably explain the inventorized data, a continuous maintenance and further development is necessary. Therefore, the inventorized data, except for the personal data, are required.

The recognition center is the central database used to store the inventory data provided by our customers in a consolidated manner. Only these data are used as basis for the signature catalog and the recognition rules. Regular software updates will ensure that you as a recognition customer will always have the most current version.

For the inventorized systems, only few system data are transferred in order to ensure that no conclusions can be drawn regarding certain computer system based on identifiers or IP addresses, etc. A detailed overview of the transferred data is described below in this document.

## 1.2 Data transfer

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The inventory data of the recognition are made anonymous and summarized in a single file with our proprietary file format (software recognition data, .swrd). This is a file format which is ZIP-compatible and can be opened with a ZIP program.

This file will then be transferred once a day from Monday to Friday (depending on the configuration) via the also proprietary OTB protocol (Object Transfer Bus) to the software recognition center. To reduce the daily data amounts, complete as well as incremental transfers are supported.

The software recognition center servers are located in Germany.

Since in most companies the uploads are restricted by firewalls and other security measures, it has to be ensured, that a TCP upload is possible:

***edcsrv1.brainwaregroup.com, Port: 1337 or 80.***

## CHAPTER 2

# Data upload

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Information about the used systems (hardware scan), the encountered exe files (file scan) as well as a list of the installed software (software scan) is transferred. Due to the anonymization of the data, it is not possible to draw conclusions from the data in the software recognition center regarding sensitive data such as host and domain name, serial numbers, IP addresses, MAC addresses, user names and user behavior, etc.

Each customer sends his data with an individual UploadID. This ID is used to mark the data. Therefore, it is possible to allocate the data to a company.

Drawing conclusions regarding a certain device based on host and domain name, serial numbers, IP addresses, MAC addresses are impossible since these data are not transferred. Drawing conclusions regarding people (user) are also impossible since no personalized data will be transferred.

## 2.1 Hardware

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Only selected hardware data of the inventorized systems will be transferred which are used for the checking and further development of recognition rules and license metrics.

In this case, no data able to identify a user are transferred. Also, no data will be transferred which allow to draw conclusions about the identifier of a system. This includes the fields Host name, Domain name, Netbios as well as IP addresses, serial numbers or MAC addresses.

The complete list below shows the fields from the hardware scan which are transferred to the recognition center:

Table	Field	Description	Example
dbo.Device	ChassisType	Identifier of the chassis type (e.g. 2 = Server)	2
dbo.Device	CorePerCPU	Number of cores per CPU	2
dbo.Device	CPUCoreCount	Total number of CPU cores	8
dbo.Device	CPUCount	Number of existing CPUs	4
dbo.Device	ID	Unique identification number of the asset within a mandator	24
dbo.Device	Manufacturer	Device manufacturer	VMWARE, Inc.
dbo.Device	MandatorID	System field – local mandator ID	6

Table	Field	Description	Example
dbo.Device	Model	Device model	VMWARE Virtual Platform
dbo.Device	OSClass	Operating system type	Server
dbo.Device	ProcessorManufacturer	CPU manufacturer	intel
dbo.Device	ProcessorSpeed	CPU clock speed	2393
dbo.Device	ProcessorType	Type or identification of the CPU	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz
dbo.Device	ScanDate	Date of the last inventorization	2015-02-12 09:06:09,000
dbo.Device	Type	Device type	Virtual Server
dbo.Device	UpdateDate	System field – Date of the last update	2015-02-12 09:08:59,027
dbo.Device	UpdateHash	System field	

## 2.2 FileIndex

The FileIndex includes all unique signatures of exe-files which result from the imported inventory data. For every inventorized file, a unique signature is calculated and entered into the FileIndex. Identical files on different systems require only one entry in the FileIndex.

The complete list below shows the fields from the FileIndex which are transferred to the recognition center:

Table	Field	Description	Example
dbo.FileIndex	BasicProductID	Unique identification number of a product (e.g. 1000762 = ADOBE Reader 9) by applying the installed recognition catalog	1000762
dbo.FileIndex	Calculated	System field for calculated signatures	0
dbo.FileIndex	Classification	Classification of the file signature from the application of the installed recognition catalog	R
dbo.FileIndex	FileDescription	The description of the file as specified by the manufacturer which can be read from the file properties.	Adobe Reader 9.5
dbo.FileIndex	FileName	File name without path data	acrord32.exe
dbo.FileIndex	InsertDate	Date of the first recognition of this file	2014-11-04
dbo.FileIndex	MandatorID	System field – local client ID	6

dbo.FileIndex	Manufacturer	Manufacturer name of the file as specified by the manufacturer which can be read from the file properties..	Adobe Systems Incorporated
dbo.FileIndex	ParentSHA1	System field – deviating signature which is used in the recognition process	0x5526E8734B4420A61053DFD0D43074A150F0C088
dbo.FileIndex	ProductName	Software name of the file as specified by the manufacturer which can be read from the file properties..	Adobe Reader
dbo.FileIndex	Product version	Product version of the file as specified by the manufacturer which can be read from the file properties.	9.5.0.270
dbo.FileIndex	SHA1	System field – Unique file signature	0x1CBBF22E3DEEEA4793C4557D5C2E4F2F37B5CF71

## 2.3 FileScan

All scanned exe-files will be transferred because they are required for the checking and further development of recognition rules and license metrics.

The following complete list below shows the fields from the FileScan which are transferred to the recognition center:

Table	Field	Description	Example
dbo.FileScan	DeviceID	Unique internal identification number of the system	294797
dbo.FileScan	FilePath	The path which the file was found in.	c:\program files (x86)\adobe\reader 9.0\reader\
dbo.FileScan	FilePathSHA1	Unique hash value of the path which the file was found in.	0x1FB0B3B8084B2B611F5D3BF455C5A2D0C753D921
dbo.FileScan	FileSize	Scanned file size in KB	279952
dbo.FileScan	ItemNo	Sequential number per file and system	69
dbo.FileScan	MandatorID	System field – local mandator ID	6
dbo.FileScan	PathFilter	Specifies whether the path is to be ignored (excluded). For example, the file "C:\Windows\System32\" is generally excluded from the inventorization.	0

dbo.FileScan	SHA1	System field – Unique file signature and connection to the FileIndex	0x3429C12E17CCAE3887D672190A816ACF778ADDCC
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## 2.4 SoftwareIndex

The SoftwareIndex includes all unique software signatures which result from the imported inventory data. Software is understood as all installed programs which are saved in the control panel as well as all entries which result from addition recognition routines. For every inventorized software, a unique signature is calculated and entered into the SoftwareIndex. Identical software files on different systems require only one entry in the SoftwareIndex.

The complete list below shows the fields from the SoftwareIndex which are transferred to the recognition center:

Table	Field	Description	Example
dbo.SoftwareIndex	BasicProductID	Unique identification number of a product (e.g. 1000762 = ADOBE Reader 9) by applying the installed recognition catalog	1000762
dbo.SoftwareIndex	Calculated	System field	0
dbo.SoftwareIndex	Classification	Classification of the file signature from the application of the installed recognition catalog	R
dbo.SoftwareIndex	InsertDate	Date of the first recognition of this software.	2014-06-26
dbo.SoftwareIndex	MandatorID	System field – local mandator ID	6
dbo.SoftwareIndex	Manufacturer	Manufacturer name of the software as specified by the manufacturer which can be read from the control panel.	Adobe Systems Incorporated
dbo.SoftwareIndex	ParentSHA1	System field – deviating signature which is used in the recognition process	0x3BB99D93D653AC46DC08EDDD39DA2668E84CB518
dbo.SoftwareIndex	SHA1	System field – Unique signature of the software entry	0x3B7D111EFFBA235009474FA88EB21D33C81906F7
dbo.SoftwareIndex	SoftwareName	Name of the software as specified by the manufacturer which can be read from the control panel.	Adobe Reader 9.5.1 - German
dbo.SoftwareIndex	SoftwareVersion	Version of the software as specified by the manufacturer which can be read from the control panel.	9.5.1



## 2.5 SoftwareScan

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All inventorized systems will be transferred which are used for the checking and further development of recognition rules and license metrics.

The complete list below shows the fields from the SoftwareScan which are transferred to the recognition center:

Table	Field	Description	Example
dbo.SoftwareScan	DeviceID	Unique internal identification number of the system	24
dbo.SoftwareScan	InsertDate	Date of the first recognition of this software.	2013-11-15 13:48:36,287
dbo.SoftwareScan	InstallDate	Date which has been entered as installation date in the control panel.	2013-11-14
dbo.SoftwareScan	ItemNo	Sequential number per software and system	1
dbo.SoftwareScan	MandatorID	System field – local mandator ID	6
dbo.SoftwareScan	SHA1	System field – Unique software signature and connection to the SoftwareIndex	0x4EAAD58263FE06F91225F897CDF4156B411C3DB5