



Lan-Inspector® 11 System

User Manual – [Quick Start](#)



Track inventory, License and software management, IT inventory management, Usage analysis

Version: Lan-Inspector Build 11060 – April 2018.

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1. What's new in Lan-Inspector 11

The Lan-Inspector 11 improves your user experience with the latest GUI technique with transition effects, and semi-transparent windows in five esthetic graphic skins. Based on detailed reports of our customers, we have improved and therefore optimized various processes for complete satisfaction. During the optimization we have eliminated periodic problems, we also have rewritten time-critical functions especially for enterprise environments. Massive amounts of data are processed more quickly using native multi core programming. We also have signed all Lan-Inspector components with an Extended Value Certificate in order to provide a maximum in security and compatibility to all established anti-virus solutions. The Lan-Inspector 11 is one of the most valuable inventory solutions available, including highly effective functions that help manage your software licenses.

New features of the Lan-Inspector 11 in short terms:

- Brand new GUI engine with effects and five skins for the best user experience
- Lani 11 Server Core with new transaction queueing for optimal multi user access
- Native CPU multi core usage for time critical operations in enterprise environments
- Scan state analysis and report for quick active updating of wanted inventory data
- Ingenious ExE-spider gathers all executables of arbitrary software products
- Centralized software blacklisting or whitelisting in the network (uses ExE-spider)
- Hash list browser shows hash codes of arbitrary files on PCs of your network providing hash algorithms like MD5, SHA1, SHA2-256, -384, -512.
- All components are signed with an Extended Value Certificate

2. Editions and Trial Versions

Lan-Inspector 11 comes in the three different editions: Basic, Professional and Enterprise. If you require additional functions, an upgrade to a higher edition is possible without any difficulty. No third-party product licenses (such as SQL etc.) are required to use Lan-Inspector.

The following chapters describe all three editions. Additionally, you will find a comparison chart that shows functional differences of the three Editions:

2.1 Lan-Inspector 11 Basic Edition

This edition includes core functions required by any administrator for inventory of his network. Furthermore, you can add full licenses and provide a target/actual comparison. To scan the network, this edition uses the currently logged in windows user rights. Therefore, there is no need to provide a service account during installation. The Basic Edition is a single user tool that you can run on demand. It does not require the installation of permanent server services.

Benefits:

- Simple usage
- Fast installation without any knowledge about the network
- Soft and hardware inventory on the touch of a button
- Direct link to the spread sheet program
- Low costs for entry level

Limitation:

- Limited to 25 computer objects
- Limited functionality
- No archive function

2.2 Lan-Inspector 11 Professional

This edition provides a larger functionality and you can manage networks of up to 100 computer objects. The Professional Edition does not install any permanent server services and scans

computers using the rights of the currently logged in Windows user. It also is a single user tool edition for the administrator's workplace.

Benefits:

- Simple usage, still with advanced functions
- Fast installation without any network knowledge
- Full license management module
- Full reporting module for savable templates
- Advanced scanning mechanisms (e.g.: clients send inventory data via e-mail)
- Archiving function with all queries on data status for all days since installation
- Direct link to spread sheet program

Limitation:

- Limited to 100 computer objects
- No full automation due to missing server services
- Single user version only: multi user operation not available

2.3 Lan-Inspector 11 Enterprise

The Enterprise Edition provides full functionality. In addition to managing any number of computer objects, this edition includes comprehensive multi-user capabilities. The client-server architecture provides parallel access for various admins from their workplaces. Lan Inspector users can receive stepped rights within the frontend to limit their access to certain functions or data areas (e.g. only certain users may manage their locations). The Enterprise Edition also includes the popular software start prevention for clients. This effectively prevents centrally controlled launches of unwanted products such as portables. The software usage analysis also is part of this edition. It allows admins to analyze the usage of certain products over a specific period.

Benefits:

- Unlimited maximum number of clients
- All scan mechanisms. Scan via e-mail, at logon, via scheduler
- Full license management module
- Support of internal cost and service allocations

- Software start suppression
- Software usage analysis
- Internal access right system for users of the product
- Multi-user server for parallel admin access
- E-Mail sender and reminder at various events (optional: TLS)
- Full reporting features. Storage of report templates, auto sender
- Full access to the archive for days since installation

2.4 The Editions: Comparison Chart

	Basic	Professional	Enterprise
Maximum number of computer objects	25	100	-
Inventory Discovery of Software and Hardware One-click network scans that collect all inventory			
License Management Intuitive management of licenses using a license pool, expiring license agreements, upgrade and downgrade queues, license balance			
Advanced Inventory Custom inventory classes, e.g. mobiles, USV, etc., advanced location management with queries, software compliance, data entry on client	-		
License Management Plus E-mail reminder on license due date, SAM Essentials filter, Package licenses	-		
Software Management Plus Version control, deployment counter, E-mail reminder for revision. Supporting internal cost profit calculation	-	-	

<p>Multi-user Operations</p> <p>Enterprise server features, parallel access, Lani admin management with scaled functions and data rights</p>	-	-	
<p>Automation</p> <p>Time scheduling functions for all tasks, Scheduled sending of reports via e-mail</p>	-		
<p>Revision safe data archive</p> <p>Accurate data archive access for each day of the past. Current reports on data of the past</p>	-	-	
<p>Software start prevention on client</p> <p>Effective prevention of unwanted software, including portable versions in the network</p>	-		
<p>Network software usage analysis</p> <p>Frequency and duration of actual software usage needed? Is there cost savings potential?</p>	-	-	

3. Privacy Policies

3.1 Copyright and License Violation

Lan-Inspector gathers information used for network management. If you have a staff council, you are required to inform them about Lan-Inspector, and record in writing, that the purpose of the program is to protect the network and therefore the liable owner from illegal copies and unlicensed software. Due to possible consequences for the individuals in charge, they have permission to perform examinations. The Data Protection Act may not be used to cover-up copyright infringements.

3.2 Usage Analysis and Staff Council

The term “software usage analysis” may inspire thoughts of monitoring, spying and discrimination of employees in any committee member. Moreover, using Lan-Inspector you can indeed find any computers running unwanted program executables for 85% of the work time. Together with the personal committee, the administrator has to agree in writing about the data range the Lan-Inspector will create his data base on. In the end, the sole reason for usage analysis is to find unused software and wasted licenses within the network in order to save as much money as possible.

3.3 Disabling Functionality by the Manufacturer

Sometimes, an agreement with the staff council seems impossible. That does not change the fact, however, that you need to be on the save side concerning licenses. In such cases, we as the manufacturers provide the possibility to deactivate specific functions on demand, thus stopping their further use. Please contact the support if you are interested in this.

4. Installation

4.1 Requirements

You can install Lan-Inspector on Windows 7 or later, but not on Home Editions. You do not need a server operating system for the Lan-Inspector. However, the use of a server is ideal in order to use the “Scan at Logon” scanning method. If you need parallel access to the data base, we recommend the usage of a server operating system as well. This is also the case if you want to manage more than 5000 machines.

4.1.1 Lan-Inspector 11 Trial Requirements

You only need the proper admin access rights to install the trial versions. You don't need an online account, and there is no activation process, at all.

4.1.2 Full Version requires Activation Process

If you purchase a full version of the Lan-Inspector, you need to activate it via internet or phone in order to use it. The activation process requires that you register an online account on the website of the VisLogic GmbH. Die Aktivierung kann via Internet automatisch oder per telefonischer Übergabe von Aktivierungscodes erfolgen.

4.2 Installation Procedure

4.2.1 Register your VisLogic account online

In order to activate the purchased product, you require a VisLogic online user account. Please visit www.vislogic.com and click on “Register”. Choose a user name and enter your company's address and contact information. After completing the process, you will receive an e-mail with a link you can click on in order to confirm and finalize the registration.



4.2.2 Installation step by step

There is little to observe during installation, although there is a little difference between Basic and Professional compared to the Enterprise edition. Depending on the edition you chose, you will find some hints in the following sections.

Please unpack the downloaded zip-folder and start “Setup.exe” with sufficient admin access rights. If you install the Enterprise Edition, you should be able to access the Active Directory or directly use a domain-admin account for the installation.

4.2.2.1 Basic and Professional Edition

Both of these editions have a very simple installer. You

1. choose your language and press “OK”

Lan-Inspector 11 Enterprise

multilanguage (Build #11056)

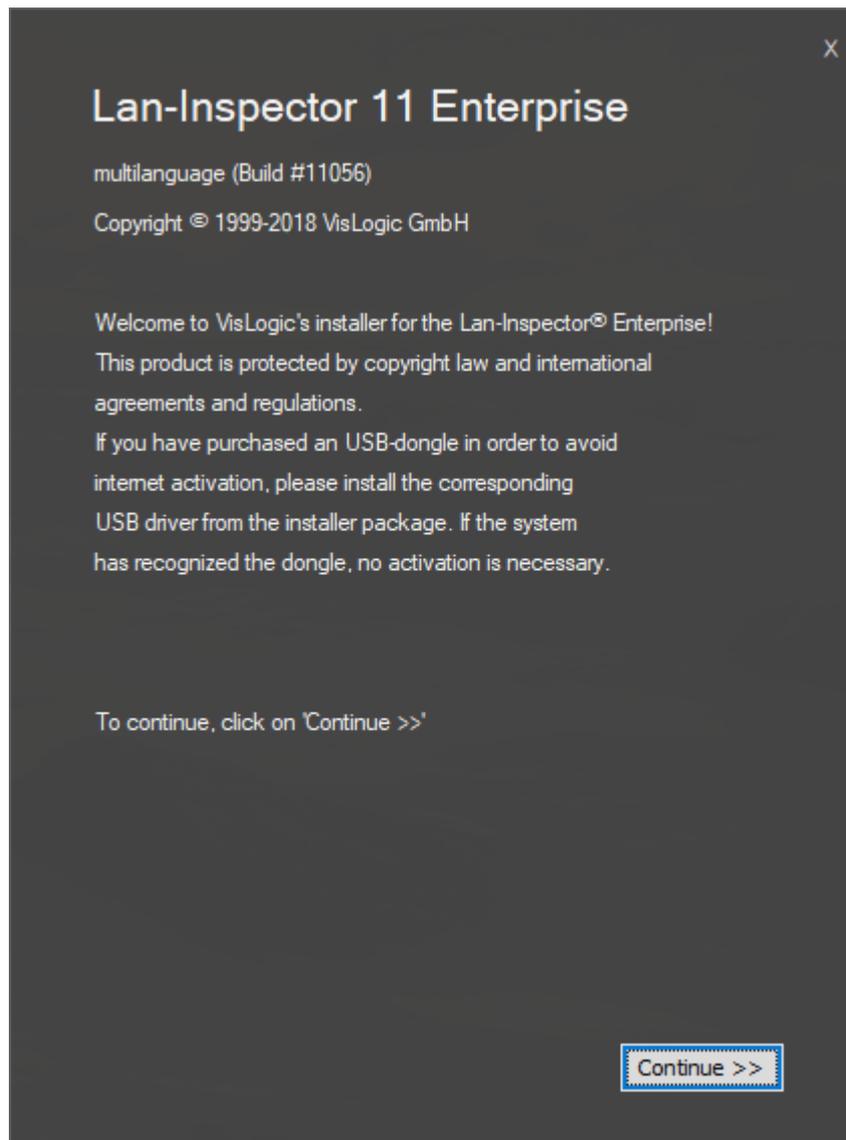
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Please select your language!

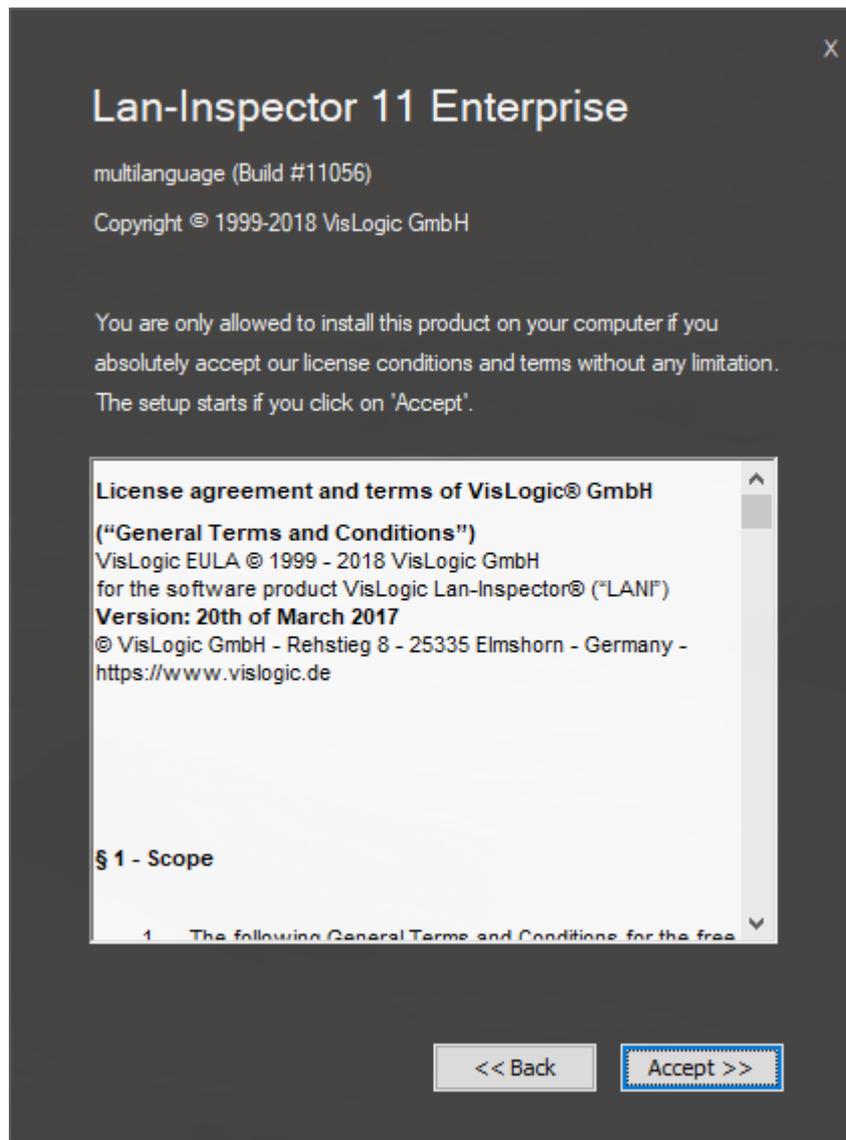
English ▾

OK

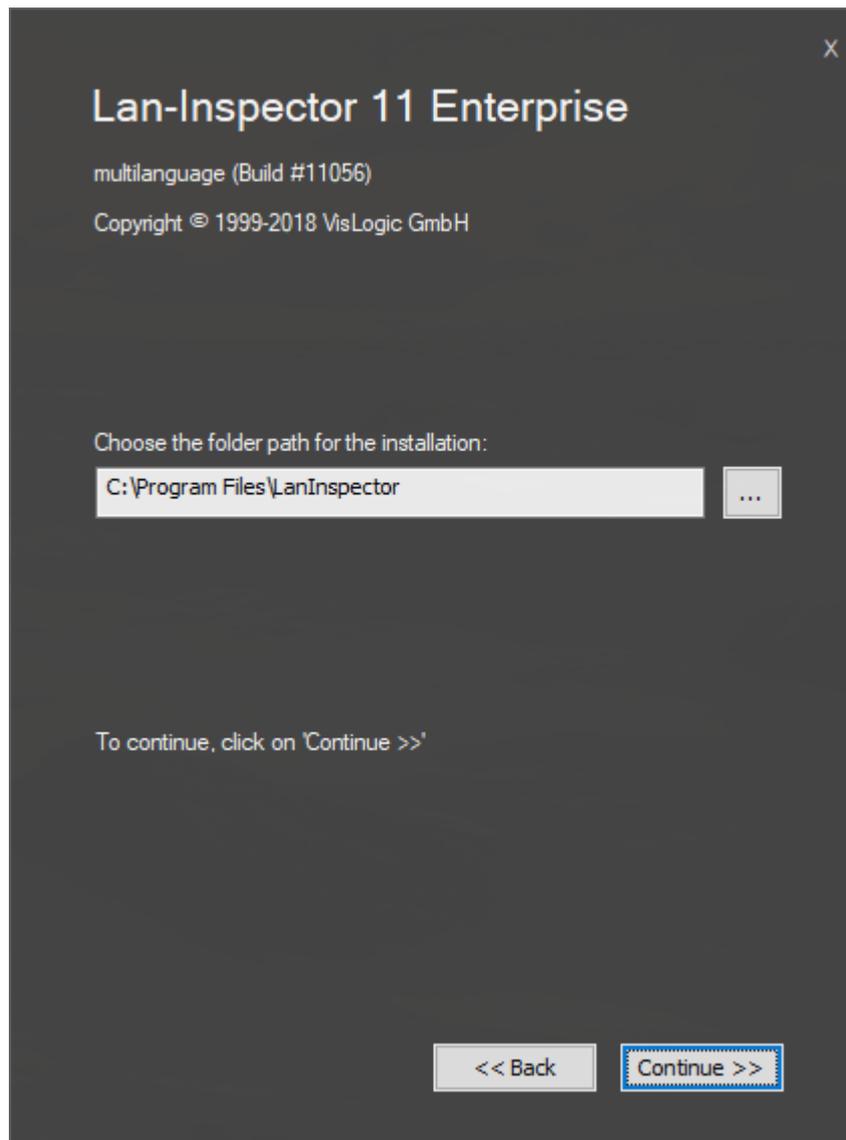
2. View the welcome screen (Continue >>)



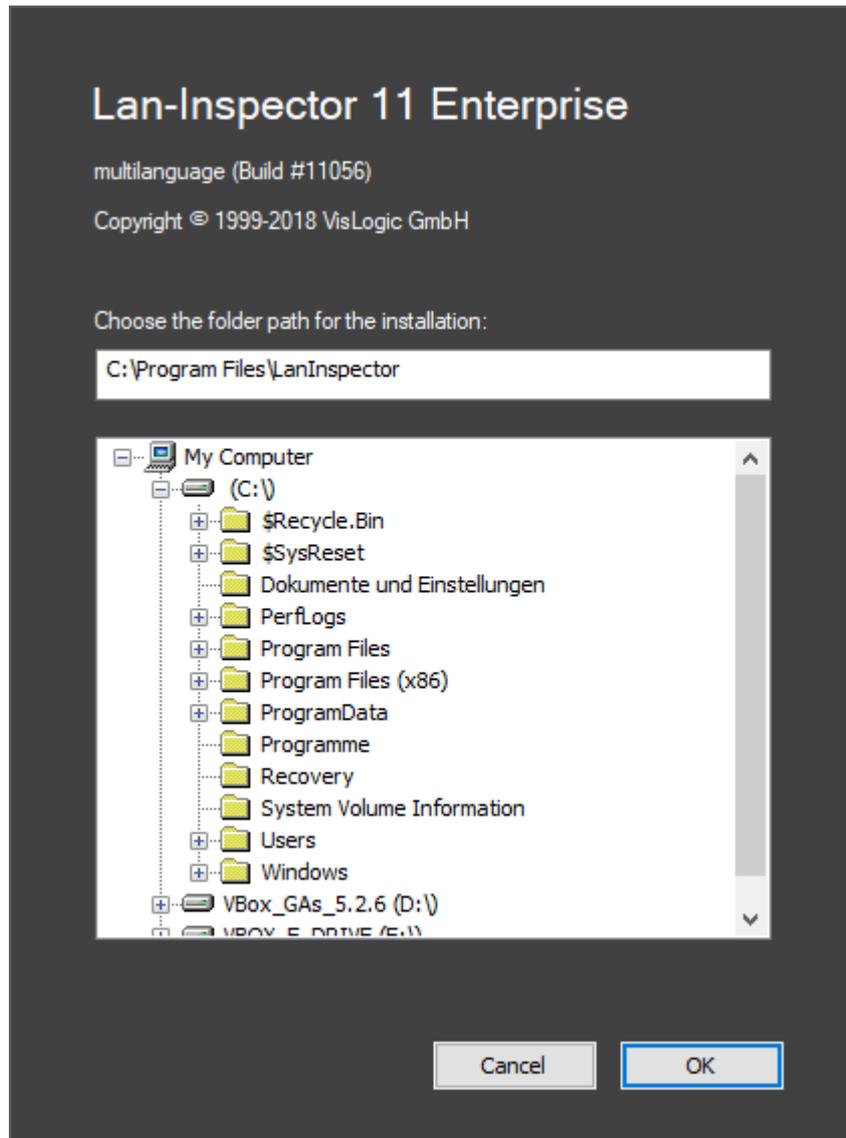
1. Accept the EULA / license agreement (Accept >>)



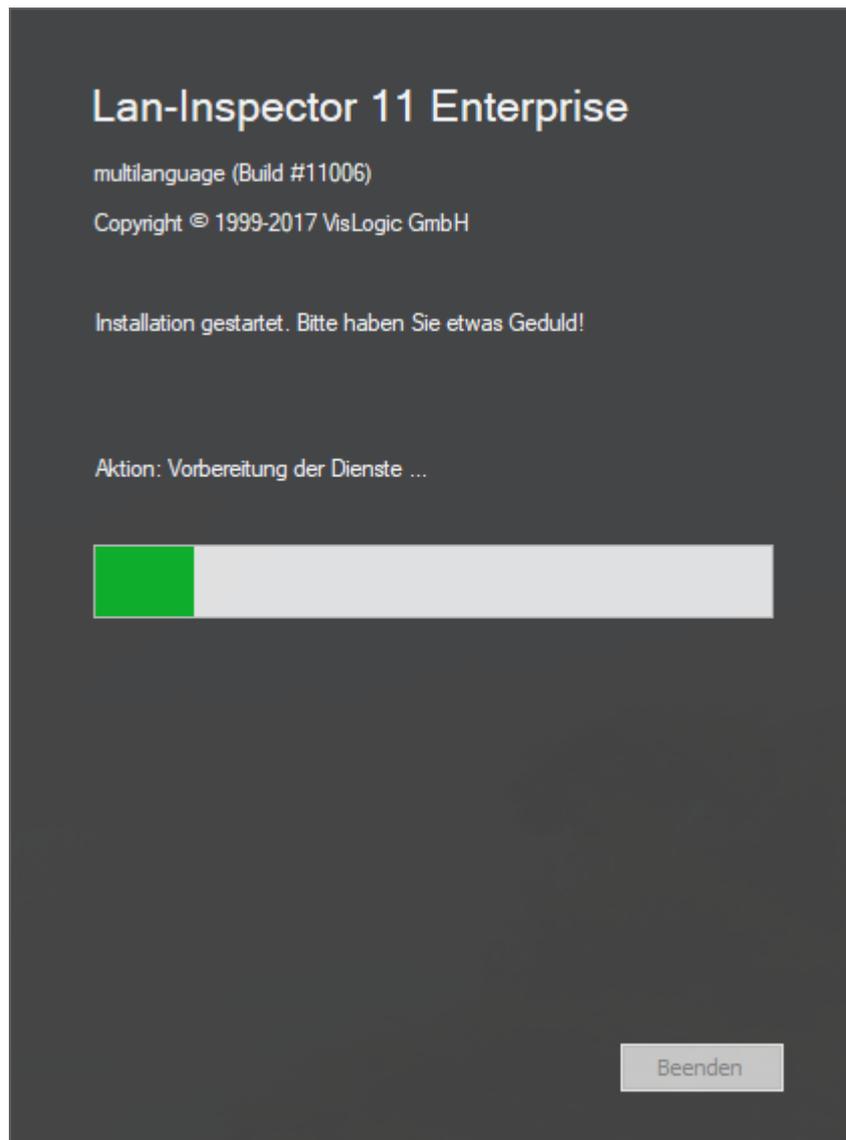
2. Choose the installation path, considering to leave it like that (Continue >>)



If you like to change the path, you can click on the browse-“...”-button. Please note that a “LanInspector” will be added to your path by default.



1. Back in the installation folder dialog click 'Continue >>' to install.



The installation is simple and in effect, all you need to do is click through the dialogs. If you evaluate one of the trial versions, this is it. There won't be any dialog for the process of internet activation. The activation dialogs will only appear if you install a full version.

4.2.2.2 Enterprise Edition

The installation of this edition differs from the Basic and Professional editions only in one point. As the Enterprise one uses a multi-user client/server architecture, you provide a master password for accessing the Lan-inspector framework. The setup function calls it simply "Administrator" which cannot be changed. Choose the password you enter when you want to access the Lan-Inspector Framework. You can also leave it blank.

Lan-Inspector 11 Enterprise

multilanguage (Build #11056)

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Please specify the password for the first LANI admin.
Use this user account to log on to the Lan-Inspector. Later,
you can create other user accounts.

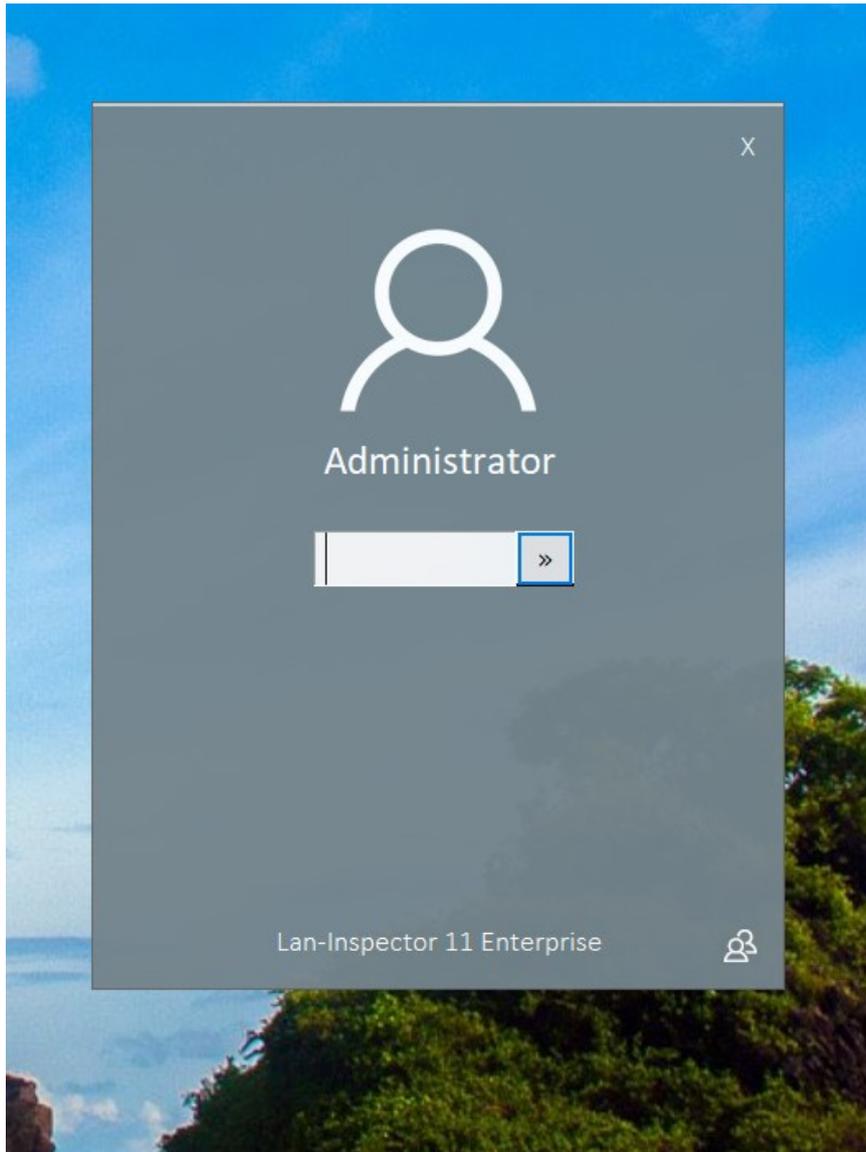
Lani admin name Administrator

Password *****

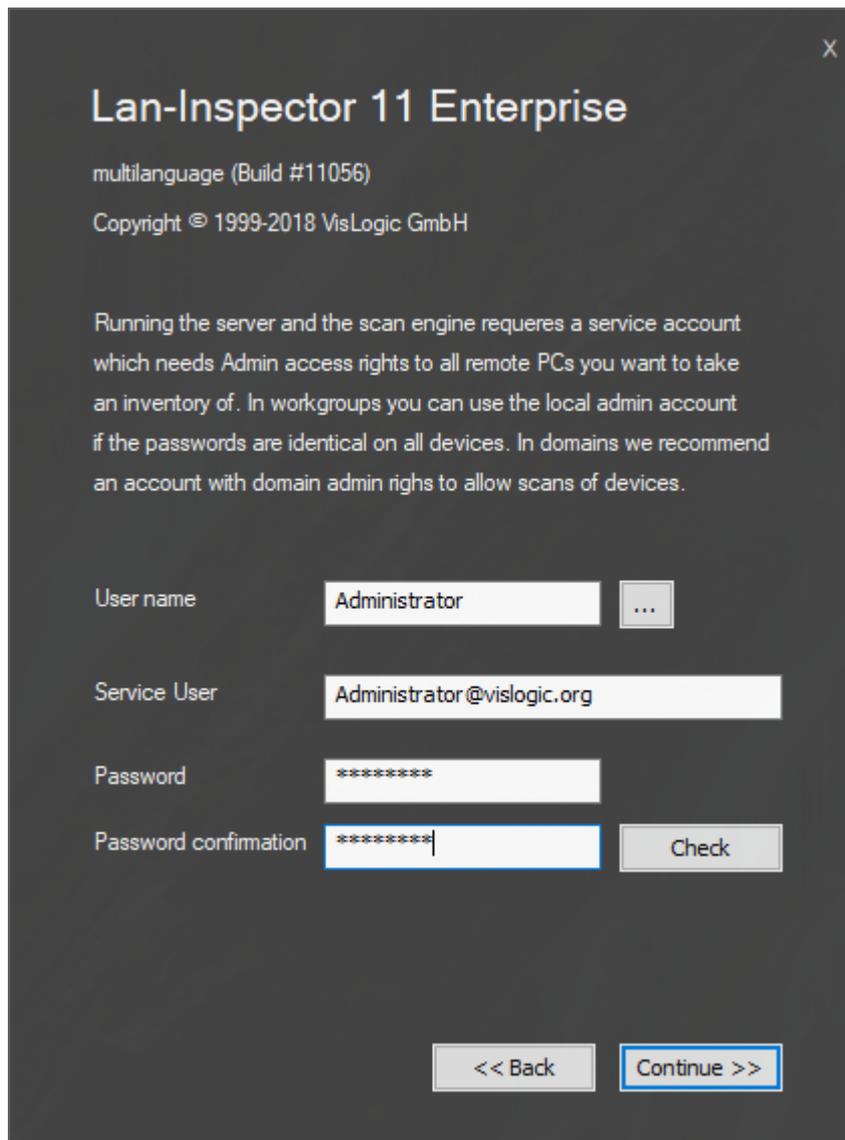
Password confirmation *****

<< Zurück Continue >>

If you start the Lan-Inspector later on, a logon screen will appear. The logon procedure as well as the underlying user and access management system is not included in the Basic Edition or the Professional Edition.



In order to scan the clients and servers of your network, the Enterprise Edition requires a Windows user account that is equipped with sufficient access rights to the domain (ideally domain-admin). This account will be used for the scan-engine service and the backup service. The enterprise setup pops up the following dialog where you can enter the account:



If you want to browse the Active Directory, you can click on the “...”-Button. This will call up a system query dialog. In order to do this, you need to have sufficient access to the Active Directory with the user you are currently logged on to the machine..

4.2.3 Full versions: Internet Activation Procedure

If you do not have a USB dongle, an activation wizard will pop up. The activation process consists of only a few steps:

1. Choose the activation procedure (Internet or e-mail / telephone)



Welcome to the Lan-Inspector activation Wizard.

You have to activate the software in order to confirm the agreed usage. Without activation, you will not be able to start the Lani server or open any frontends.

This Wizard appears, if this is a new installation, or if the hardware has been changed. It also appears if you rent the software and the usage period has ended.

Please choose an activation method:

Via internet automatically
 Manually via e-mail or via telephone

[Data privacy policy](#)

2. Provide your VisLogic account name and password (see 4.1.2 Full Version requires Activation Process). You can also click on the link “lost password or register online” and follow the instructions on the web site.



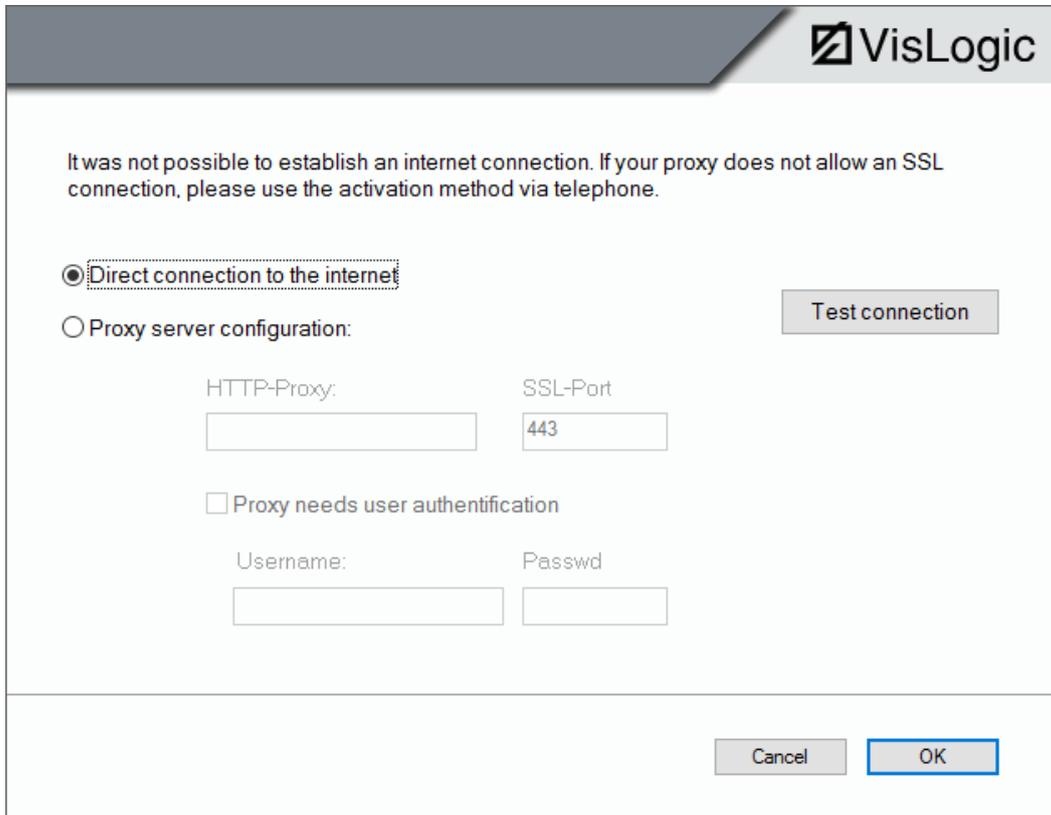
To activate the Lan-Inspector successfully, your installation will be linked to your VisLogic online account. Please note that you need to DEACTIVATE this software, before you can install it onto another computer system.

VisLogic Online

Password

[Lost password lost, or register online?](#)

3. If you continue the activation process will take place if an internet connection is available. If not, a dialog will pop up, asking for proxy parameters.



The image shows a dialog box from VisLogic. At the top right is the VisLogic logo. The main text reads: "It was not possible to establish an internet connection. If your proxy does not allow an SSL connection, please use the activation method via telephone." Below this, there are two radio button options: "Direct connection to the internet" (which is selected) and "Proxy server configuration:". To the right of the "Proxy server configuration:" option is a "Test connection" button. Under "Proxy server configuration:", there are two input fields: "HTTP-Proxy:" (empty) and "SSL-Port:" (containing "443"). Below these is a checkbox labeled "Proxy needs user authentication". Under this checkbox are two more input fields: "Username:" (empty) and "Passwd:" (empty). At the bottom right of the dialog are "Cancel" and "OK" buttons.

4. We highly recommend making a proxy connection possible. Otherwise you'd have to activate manually, having this nice one here:

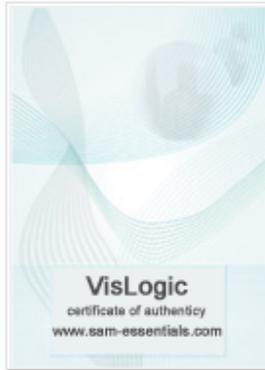
You have selected the manual method. Please send us a screenshot of this dialog to SUPPORT@VISLOGIC.COM including your company's address/signature. We will answer as soon as possible with the necessary activation codes. Or you can try to call us via the specified number.

+49(0)-4121-789381-0

Part A <input type="text" value="IC41Q0"/>	Part B <input type="text" value="47VC3D"/>	Part C <input type="text" value="QAKDRX"/>	Part D <input type="text" value="B8"/>	Part E <input type="text" value="510ZHYD"/>
Part F <input type="text" value="XTOHBJB"/>	Part G <input type="text" value="AS0BVTL"/>	Part H <input type="text" value="OYT60AS"/>	Part I <input type="text" value="UV4ZTWB"/>	Part J <input type="text" value="C"/>
Result A <input type="text"/>	Result B <input type="text"/>	Result C <input type="text"/>	Result D <input type="text"/>	Result E <input type="text"/>
Result F <input type="text"/>	Result G <input type="text"/>	Result H <input type="text"/>	Result I <input type="text"/>	Result J (opt.) <input type="text"/>

- After the codes have been accepted, you'll receive a confirmation dialog. If your hardware changes significantly, the product has to be activated again. If you want to install the product to another computer, please be sure to de-install and de-activate first. The deactivation process is almost the same as the activation one described before.

PLEASE NOTE: If you don't deactivate the installation by uninstalling and completing the deactivation process, you won't be able to reinstall it again and your purchased licenses cannot be used anymore.



Thank you!

Your installation was activated successfully. Please note that any significant changes of your hardware can eventually cause the need of a new activation.

If you are using a license for rent, the activation expires with the end of the rental period. If you continue your subscription, you can activate once again.

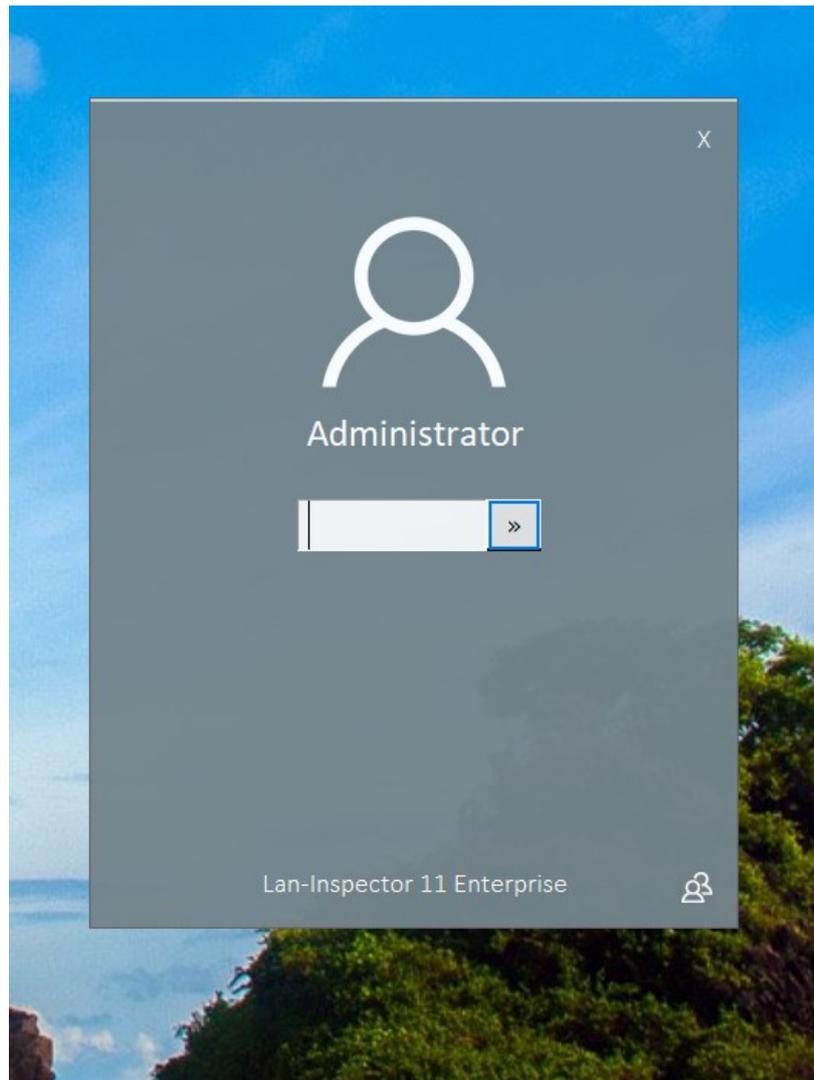
OK

5. Working with the Lan-Inspector

5.1 Enterprise Log-on

Using the Basic or the Professional Edition skips this logon procedure. The Enterprise Edition has a running service account in the background (LaniScanEngine Service). This service uses a Windows service account that provides the necessary domain admin rights which are necessary for inventory scans of remote PCs. The users that logon to the Lan-Inspector consequently don't need domain admin rights to perform network scans. Compared to that, scans of the Basic or Professional Edition require that the access rights of the logged-on Windows user are sufficient to scan remote PCs.

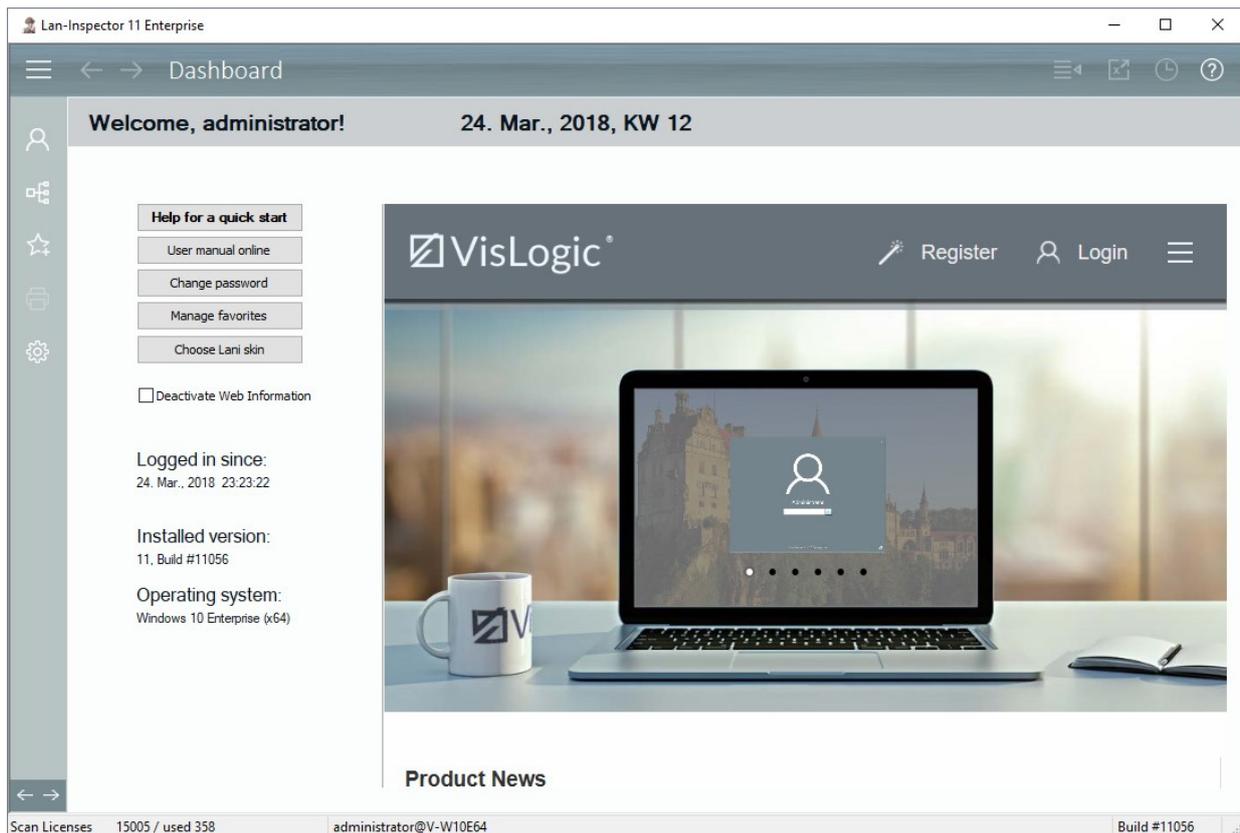
The Enterprise Edition includes an effective user rights management to give or take away functions and privileges to users of the Lan-Inspector (see 7.2.6 Lan-Inspector User Accounts).



In order to change the name of the account, please click on the user symbol in the bottom right corner of the dialog. Enter your password and click on the “>>”-button. This opens up the frontend with all functions your user account is privileged to use.

5.2 Lan-Inspector Navigation

A tree menu of functions presents all aspects and functionality in a sorted and topic related manner. Call it up by clicking on the menu icon in the upper left corner. All menu items have a tooltip info which appears if you sway over an item for some seconds. This way you know immediately what the function is about. To navigate more easily you can use the arrow icons in order to switch forward and backward in the history of visited views.



If you look at the top bar on the right side, you'll notice four buttons. The rightmost one leads you into the **Report Management**. All data queries in the different Lan-Inspector views can be saved as report templates with their individual parameters. If this icon appears as active, you can save the current query as a template.

Next to it you see an icon with an **X (for Excel) in a box**. If the current query allows it, you can click this icon to open your results directly in Excel or scalc. The Lan-Inspector creates a temporary csv file and hands it to excel. It is stored in the user profile's temporary folder as "templist.csv".

The **Clock symbol opens the time scheduling function** allowing you to automate actions. An active icon signals that time scheduling functions are running.

The round **symbol with a question mark** opens the context help related to the currently used function.

The **uppermost treelike icon in the left bar** leads you to the location management view (location tree and network search). This view has got an own quick icon because it is likely that you'll use it very often (search PCs, assign them, scan them and organize the structure).

Below you see a **user icon** you can click on to get to the dashboard.

Clicking the star icon will add the current view to your **favorites**. In the Enterprise Edition, each user has his own favorites list. Favorites grant quick access to your most used functions.

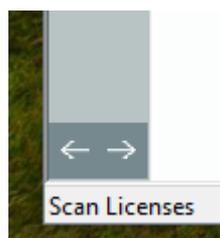
The **printer icon simply** displays the current view in a print preview screen from where you can easily have it printed.

The **Cog wheel summons** a context menu with **a few frontend settings**:



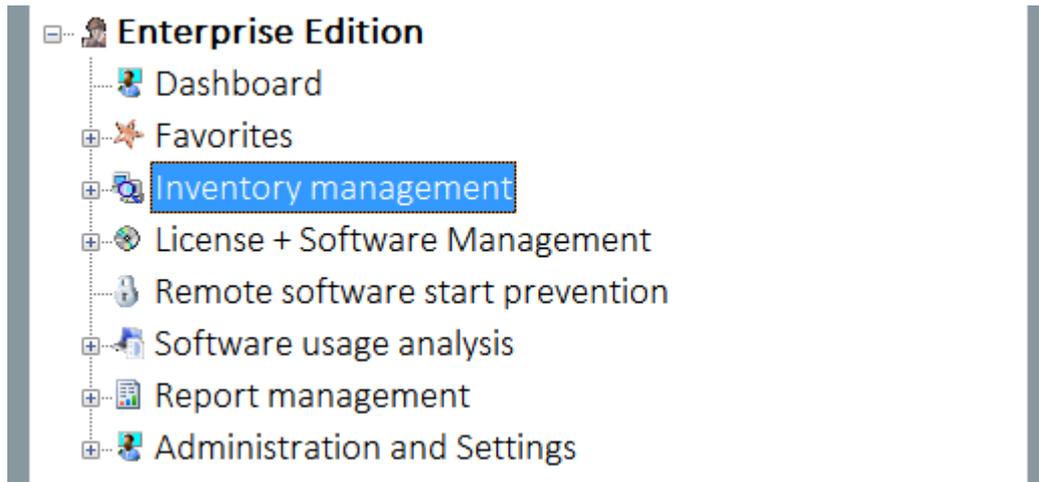
Here you can select the language of your GUI or change its appearance. Furthermore, you can change your password, setup your printer driver or look for an update of the Lan-Inspector. You can also display information about the product or close the GUI by choosing "exit" if you don't want to use the corner's X.

At the bottom you see two arrows. Clicking on these will change the view of data within the current menu level.



5.3 The Tree of Functions (Frontend)

Using the menu icon in the navigation bar you can slide in the function tree. Depending on the Edition or the permissions granted to of the logged in Lan-Inspector user in the Enterprise Edition, you will find all available functions here. On root level, you see the name of the Edition you are using. The following branches are grouped by topic: Favorites, Inventory management, Licenses and Software management, Report management and Settings. You can find a description below.



Please note that the menu items may differ depending on the used Edition. The Basic Edition e.g. has not all of the function branches described here.

5.4 Lan-Inspector and License Management

5.4.1 Find a strategy for your license management

Depending on the structure of your company and additionally the composition of your network, there can be different approaches to your strategy. There are so many different products, license models and countless software producers. The license models tend to be balanced in a way in order to provide a maximum flexibility to the customers. At the same time profit-oriented software houses are highly motivated to generate as much as profit as they can without losing their customers. Usually this creates acceptable compromises, because even monopolists cannot afford spoiling the masses in times of social media. However, certain entanglements with old license models, relicensing and additional license purchases create completely unclear conditions. Companies don't have a chance to optimize their license costs and simultaneously stay legal without professional license support through license experts. And even then, the experts usually only focus to a small number of products that are used in the companies.

It is not recommended to completely rely on external consultants in connection to such an important subject – especially then if the external consultant is the friendly hardware shop next door, who doesn't really know what he is selling you without the slightest idea of how license models of the vendors (Microsoft, Adobe, HP, McAfee and some others) work these days.

It is always the company itself who is liable for its actions, because external consultants use to exclude miscounseling in their service agreements. There are a few Lan-Inspector customers who made the unpleasant and expensive experience of being forced to completely re-license large areas of the network; just because the licenses they bought before are not allowed to be used in the planned way.

Especially striving for innovation and following new trends creates license problems within companies. Cloud service providers want to distribute their solutions usually caring much about existing software and hardware infrastructure in companies. They propagate new models and sell them without mercy ("Well, I'm sure it will fit in your license models").

If everything is done correctly, license management can spare costs and provide legal safety. You need a proper strategy for your license management that fits to the individual quirks of your productive IT landscape. But, if every network is so individual and heterogeneous ... how can it be possible to find the proper strategy for it?

5.4.2 License Management Basics

There is almost no company left that can do without IT equipment. Employees use PCs productively; a network is established necessarily and the responsible persons purchase licenses as they think best.

Reality shows that the process of license management usually begins when it is almost too late already to find efficient strategies. The upcoming problems are pushed aside or at least the responsible persons postpone their solution. In effect, what is usually the impulse to start it suddenly?

Maybe the responsible persons have been warned by external consultants of the legal problems. It also happens that software producers themselves start to tap on the nerves of IT heads by asking, calling, or sending letters for license self-disclosures. Of course, they all just want to support their customers with gaining legal safety or straighten their license models for the future. They offer a “helping hand”.

However, reality is like this: If companies make mistakes in licensing their software products, the software producers see a high “potential of harvesting” in them. From a legal point of view, customers/companies almost have no chance if they use software products without respecting the producers’ license models. If things get rough, in case of violation of agreements or – in other words – incorrect license situations, software producers judicially effect a complete shutdown of the IT landscape running the corresponding software. For most companies this is the same as a bankruptcy. In most cases, the company is ruined this way, so there won’t be many willing to risk that. They prefer paying what the producer is asking for.

Networks and situations might be individual and even special - there is a basic process in managing licenses. This process has been established as a base for an individual strategy. To respect the existing IT landscape, VisLogic recommends the following steps:

- A) Inventory discovery / determine the as-is state
- B) Reviewing purchased or rented licenses / studying agreements
- C) Reconciliation and identifying license deltas
- D) Optimization of agreements or purchase additional licenses

To this point, this strategy can at least secure the current situation. As the company continues working, it is necessary to accept that license management is an ongoing process. The IT landscape is subject of change, so you must discover your inventory continuously. Software producers/vendors come up with offerings and version upgrades. So, all new licenses have to be respected in your license reconciliations as well.

You need to check if new agreements and licenses harmonize with old ones before you purchase them. New hardware, virtualization or cloud solutions have to be checked if they are legally compatible with existing environments.

It is definitely not enough to rely on the statements of corresponding vendors.

5.4.3 License Management For You

It is highly recommended, depending on the size of the company, to include employees in the processes and therefore build up their knowledge. After having gained a certain level of legal safety (after D) you are on a good way to build up your license management.

- E) Defining roles and responsible persons (Knowledge-Owners)
- F) Defining explicit processes for buying software and hardware.

From A to F you will find many service providers and consultants in the market. Even for the creation of a complete strategy you will find consultants who are willing to work countless days on creating a single concept.

VisLogic is settled in the positions A to C. Using the Lan-Inspector you can safely discover your inventory up to the last PC. You also can enter your licenses and agreements to create regular license balances. It is important to see that there is not something like “can do it all”. Using the Lan-Inspector’s inventory and license modules alone will not be enough to provide complete legal safety. Probably you’ll need additional license consulting to clarify your individual license situation.

The Lan-Inspector offers a solid foundation for consultancy and furthermore many nice tools that make your network management easier.

5.5 Lan-Inspector Quick Start: Step by Step

The Lan-Inspector helps you discover your network inventory in many different ways. We tried to bundle the many functions thematically, so you can comfortably use it. If you have done your important task of discovering your inventory and reviewing your license records, you can sure explore all the additional functions.

This is the quick start guide:

In the following sections we describe how you can quickly build up your inventory data base by discovering your IT assets.

5.5.1 Ensuring Admin Access Rights

Please note that you will only be able to scan those computers you can access with the privileges you have provided. If you use the Basic Edition or the Professional Edition, the account you have logged-on needs these rights. If you are using the Enterprise Edition, the service user account you have provided during the setup needs to have these rights. The service user account is supplied to the services “LaniScanEngine service” and “LaniBackupServices”. With the Enterprise Edition, the LaniScanEngine service collects the data by connecting to the devices. You can change this user account, if you need to, by changing the log-on properties of the service in the computer management console.

You will find more information about the installation procedure here: 4.2 Installation Procedure.

Please note that scanning will work without any problems in domains if you have the proper access rights. In workgroups, using Windows 8/8.1/10, you need to activate admin access rights via a little registry hack. If you got the proper rights, the hack will be applied automatically. The first scan will probably fail, but after a reboot or on the next scan, it will work as well:

5.5.1.1 Workgroups: Activate Admin Shares (Win 8.x and Win 10)

If you still use workgroups to avoid the need of an active directory server, you need to activate the admin shares like (ADMIN\$). The first scan will try to set this key in the registry automatically. Next time, the scan engine can install its agent using the share. In workgroups you provide the identical local admin user account to the scan engine service. As this account exists with the same password on the other workgroup members as well, you can scan the computers then.

If you need to activate the admin shares manually, do the following:

1. Open regedit
2. HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System
3. Add a DWORD32 value named “**LocalAccountTokenFilterPolicy**“
4. Apply “1” to it.

5. It may be necessary to reboot the machine.

It might be cost saving to avoid a server operating system to host a domain. This only applies to small networks.

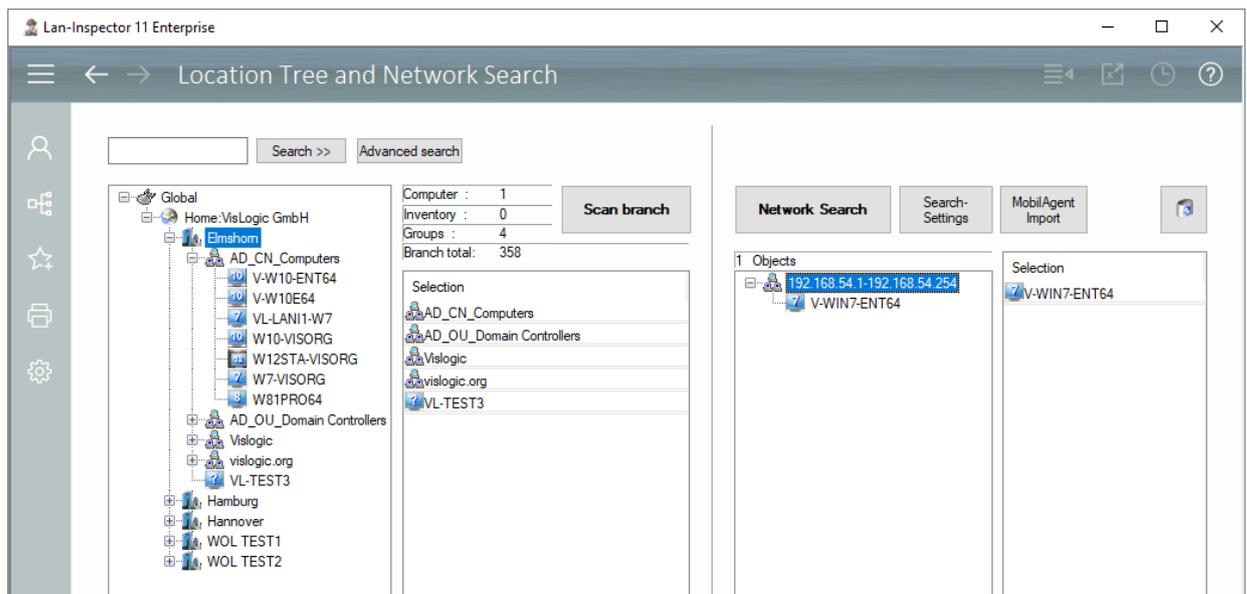
5.5.1.2 Some words about the Windows Firewall

If you use an active windows firewall within your domain, it may be necessary that you have to confirm a registration of the Lan-Inspector executables to the firewall. Usually the program registers itself. In certain cases, a reboot of your computer / server may also be needed to make the product run properly.

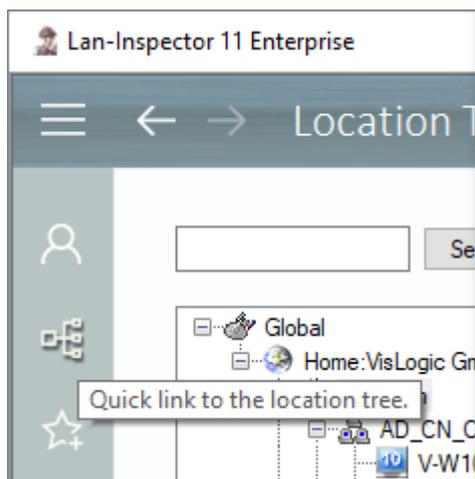
5.5.2 Search for Computers and assign them to the tree

The Lan-Inspector organizes all found network objects in a so called “company tree” which is a structure with cascaded levels corresponding to the company’s locations, groups or sub groups. You can create these groups without limitation.

Open the tree of functions and choose “Inventory Management/Location tree and Network Search” which is described here: 6.3.1 Location Tree and Network Search.



You can quickly reach this very location tree view by clicking the quick link on the left side:



On the left side you see the location tree. To the right you find the pool of found network devices. Click on “Network Search”. The Lan-Inspector will collect devices in your network respecting the current search parameters. If you need to adjust these settings, you can click on the button next to the search button, or you can enter the menu / tree of functions and switch to administration/search and Scan settings: (see 6.9.2 Such- und Scaneinstellungen).

After the search has completed you can now drag devices from the pool from the right side to the left side and drop the objects directly on groups of the location tree. If you have provided sufficient scan licenses to the system, all PCs will be assigned to the chosen group. **PLEASE NOTE: These objects haven’t been scanned, yet!** This means that no real inventory content has been collected, yet. With sufficient access rights the search usually displays the correct icons already. If you discover icons with “NT” you possibly run into other scan problems caused by insufficient access rights of the service account.

5.5.3 Collect the Inventory of PCs

The scan follows now. Please note that you can create a scheduler that does these tasks automatically, see 6.9.5 Automation/ Time scheduling.

Select a branch of the location tree and click on the button „Scan branch“. This causes the system to scan all PCs that you have assigned to this branch. The system will also scan all objects of sub-branches. The following dialog displays the state of each scan thread:

Scan process (SB:64) Stop it

Papierkorb Lan-Inspector 11 Enterprise

Current job: **VL-TEST3** 20 of 20 Duration: 00:00:16

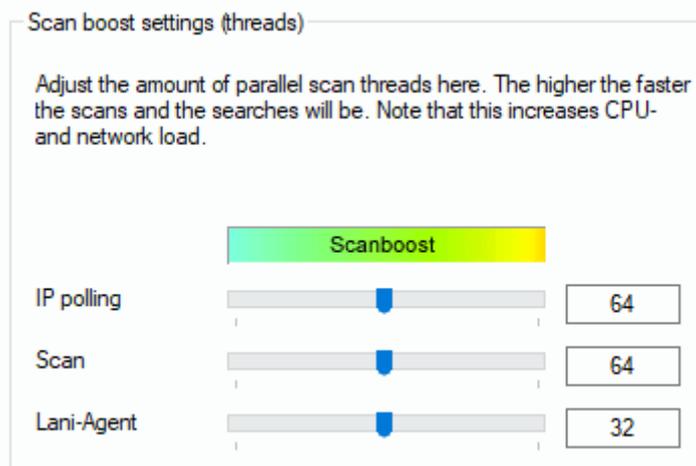
Overall progress: 80%

Lan-Inspector 11

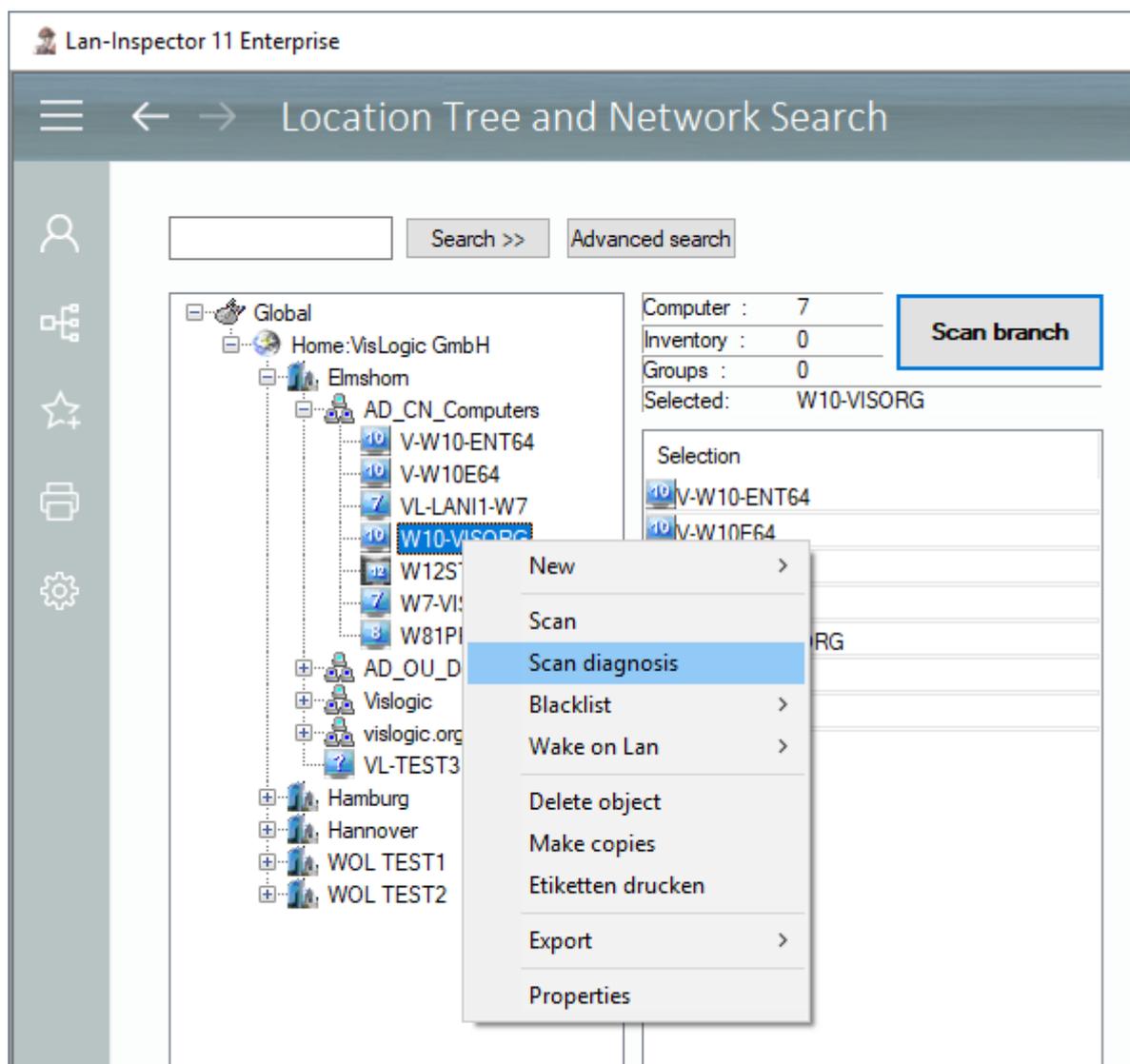
Nr.	Name	Pfad	Status	
10	1	V-W10-ENT64	Elmshom/AD_CN_Computers	Connecting
10	2	V-W10E64	Elmshom/AD_CN_Computers	Collecting data.
7	3	VL-LANI1-W7	Elmshom/AD_CN_Computers	Ping timeout.
10	4	W10-VISORG	Elmshom/AD_CN_Computers	Ping timeout.
12	5	W12STA-VISORG	Elmshom/AD_CN_Computers	Admin access ok.
7	6	W7-VISORG	Elmshom/AD_CN_Computers	Ping timeout.
8	7	W81PRO64	Elmshom/AD_CN_Computers	Connecting
12	8	W12DC-VISORG	Elmshom/AD_OU_Domain Controllers	Admin access ok.
7	9	VL-GATE	Elmshom/vislogic	Ping timeout.
10	10	VL-LANI1	Elmshom/vislogic	Admin access ok.
7	11	VL-LANI1-W7-VC6	Elmshom/vislogic	Ping timeout.
7	12	VL-MOBIL-W7-VC6	Elmshom/vislogic	Connecting
7	13	VL-TEST2	Elmshom/vislogic	Connecting
7	14	VL-Z-MOBIL	Elmshom/vislogic	Connecting
11	15	V-S2016STOSTA	Elmshom/vislogic.org	Connecting
09	16	V-W2K3R2-ENT-64	Elmshom/vislogic.org	Connecting
8	17	V-WIN-81-ENT64	Elmshom/vislogic.org	Connecting
7	18	V-WIN7-ULT	Elmshom/vislogic.org	Connecting
08	19	VL-S2008R2	Elmshom/vislogic.org	Ping timeout.
?	20	VL-TEST3	Elmshom/	Connecting

Scan Licenses: 15005 / used 357 administrator@V-W10E64

„SB: 64“ in this case means that the scan engine uses up to 64 parallel scan threads to accelerate the scan procedure in larger networks. You can scale the network load in the search&scan settings (see 6.9.2 Such- und Scaneinstellungen, “Scanboost”):



If there were problems during the scan (for example “check ScanDiag“), you can leave the window and call up the scan diagnosis via right-click menu for the corresponding PC, see 6.9.7.2 Lani Agent Scan Diagnostics.



Needless to say, it is essential to repeat the process of searching and scanning the network frequently in order to collect all devices and keep their data up to date. To make sure you gather all objects, you should consider to combine different methods of discovering the inventory (for example "Scan at logon", 6.9.3 Scan at Logon & Script Generator. In addition, the process of scanning may be most efficient if you enable automatization, see 6.9.5 Automation/ Time scheduling.

5.5.4 Browse the Current State of your Inventory

After having scanned the PCs you can access the inventory data in different ways. There are a few main useful processes that have been adapted in fixed data query views. The queries are connected so you can intuitively browse through the data. For example, if a view contains a list of PC-objects like in a branch of the location tree, you can quickly double-click a PC to change view to "Object Details" to see its inventory content.

If you need a **complete list of software products with their number of appearance in your network**, you visit the view "Installed Software in the Network", see 6.3.4 Installed Software in the Network.

In case you need to know **what software and hardware is installed in a PC object**, select the "Object Detail" view which is described in 6.3.5 Object Detail.

"Software and Device List", described in 6.3.3 Software and Device List, displays the unfiltered software list and allows you to double-click an entry. This action **dumps all PCs in the list/tree below where the wanted product is installed**. You can choose between a dump in the form of a tree or in the form of a list. The tree offers additional information about where the object is located, while the list enables the "view in Excel"-function.

5.6 Challenge License Management

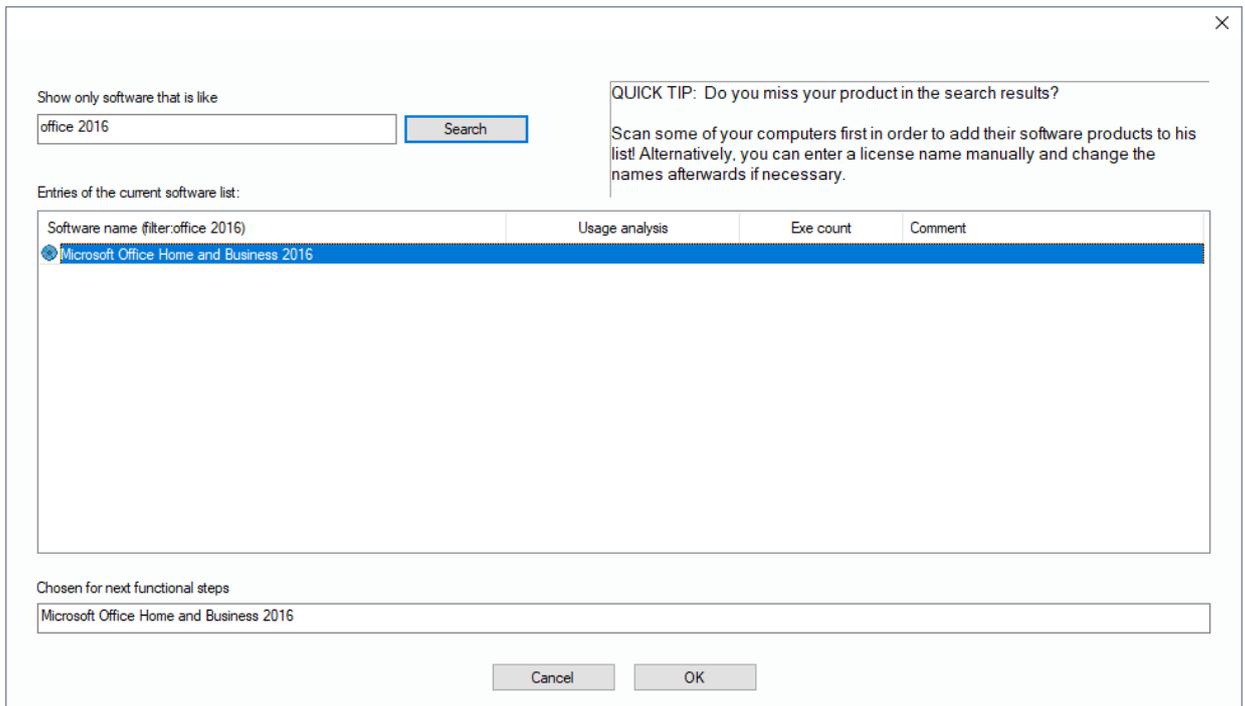
There is a **main problem in setting up your license management**. When you purchase a software from your vendor, the product's name on the bill may differ from the name the software will have when it is installed to a computer. The vendor may call his goods like "MS Off pro 2016", but if you scan a PC, it will have a name like "Microsoft Office 2016 Professional". If you would just import the purchased products from you buyer's database, a qualified reconciliation may be

impossible, because the names differ. You can only create a license balance if the names match (depending on the used license metrics).

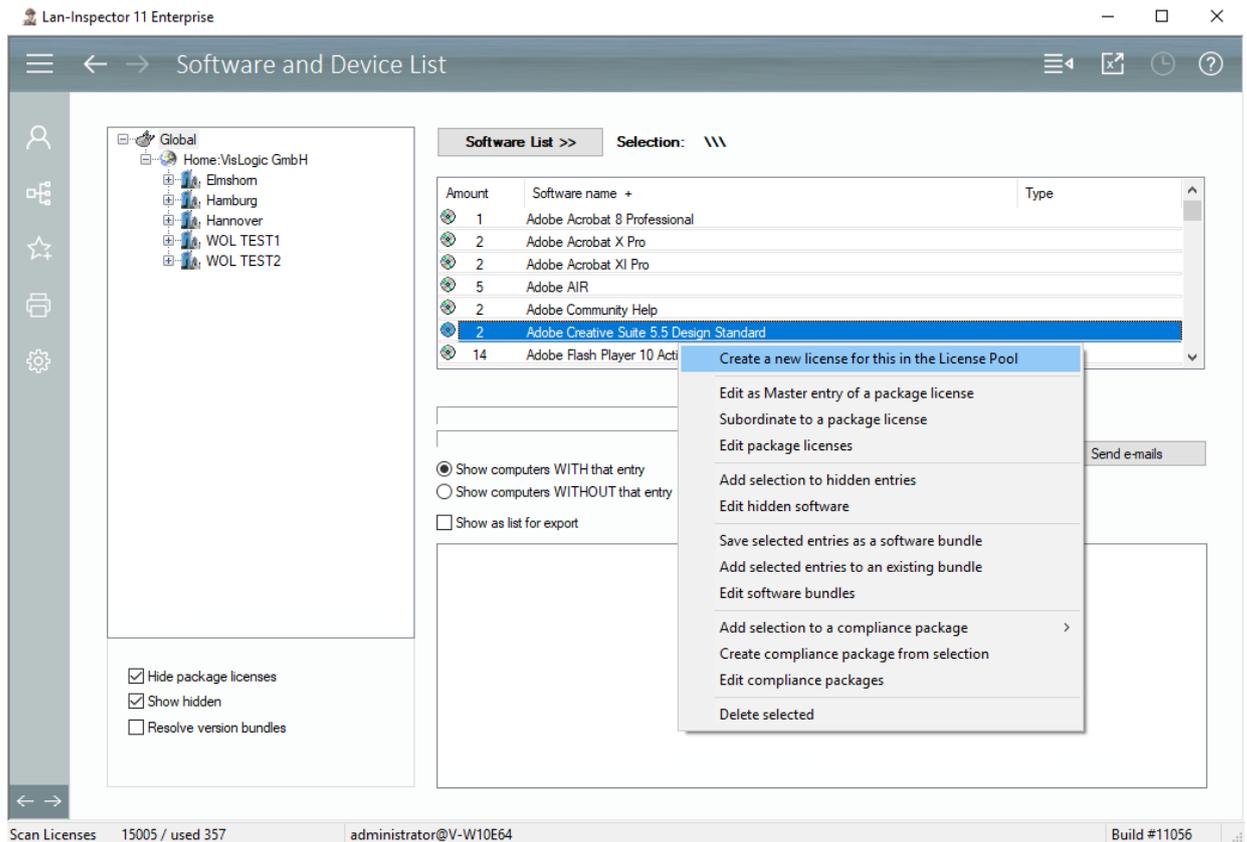
There are providers of license management solutions that would like to establish their own standards by creating unique IDs for software products and licenses. Good idea, but after all everyone will be dependent to their services and pay for it forever. The Lan-Inspector prioritizes the best effort in the name of the customer. By using the software name the installation has, you won't be dependent to third party service providers.

5.6.1 Create License entries with correct names

The easiest way is just to derive the license name directly from the pool of installations in the network and therefore from your inventory data base. If you want to create a license entry for „Office“, you choose the correct name from the catalogue of software names found in your network, see 6.5.1 License Pool / License Entry. It is highly probable that the purchased software will be installed on some PC in your network.



You can also derive a license entry directly from other views like in „Software and Device List“ using a context menu::



5.6.2 Upgrades und Downgrades

Upgrade licenses are a good way of saving costs, especially in networks with a history. You have 20 Office 2007 Professional licenses and save cash, because you don't purchase 20 full licenses for Office 2013, you purchase upgrade licenses. These licenses on their own are invalid. They need the proper base license (Office 2007) to cast them into full Office 2013 licenses. If you don't have the base licenses, the upgrade licenses are useless.

The Lan-Inspector offers a solution to picture the connection of base licenses and upgrade licenses. To have a fully upgraded license, it is essential that the base license has no installation in the network. If you have an installation, your base license is consumed for it and it therefore cannot be used for the upgrade mode. The section about the license pool (see 6.5.1 License Pool / License Entry) talks about upgrade rules you can deposit into license entries. You get the information how upgrade relations/rules can be applied. If you have deposited these rules, they will be obeyed in your license balances.

On the other hand, it is possible to deposit downgrade rules. Downgrade rules can be applied if you got the case that you cannot purchase licenses anymore for an older software you are using in the network. There are several reasons why one would want to

use the older software version rather than the new one. However, the downgrade rules can be edited in the downgrade editor, see 6.5.6 Downgrade Rules.

Please note that downgrades are nothing that can be applied as standards. Every software producer has his own rules and usually even every product has own rules for this. Some downgrade rights only apply if you have an additional Software Assurance (SA) from the producer. Please keep in mind that the Lan-Inspector is not a license consultant. If you are not sure how the license agreements need to be applied in your network, please ask a sophisticated license consultant.

5.6.3 License Metrics

License metrics dominate the jungle of licenses. Every software producer is free to modify agreements and licenses at his own will. The most common metric is "Client PC". The Lan-Inspector creates a license balance by confronting the number of installations with the number of allowed clients in the purchased license. There are various other models. Usually common software producers include methods that limit the usage of their products technically. However, the Lan-Inspector offers various possibilities to map license metrics into a license data entry, see 6.5.1 License Pool / License Entry:

New License Sort pool Search in queried records

Description	Upgrade rules	Source	History	Documents
License information	Agreement/Limitations	Data fields	ActiveDirectory/Citrix	

Displayed license name Pick

DeviceLock Save

License kind Full version

License type Purchased license

License metric Named User ?

Amount 300 Res 0

Language ?

Date of purchase 17.12.2008 Purchase price for 0.00 Express tag

Cost center

Master agreement

The button “?” shows how metrics will be used in a license balance. Please note that license metrics are subject of change and software producers like to change their pattern frequently. We recommend that you consult a license expert if questions arise.

5.6.4 Create Reports of License Balances

The license pool is supposed to map the purchased licenses from the view of your buyer, not from the view of appearances in your network. So, if you have purchased a set of 50 Office licenses in January then you will use the license pool to enter a license record with 50 Office licenses. If you then purchase a set of 50 further licenses, you will add another record with 50 using the same license name. The Lan-Inspector will calculate 100 Office licenses for your balances then, but you keep the information of your real purchases like purchase date of the first set of 50, etc. The Lan-Inspector will sum up your licenses correctly to be able to create your license balances. In order to do this, it uses a very complex algorithm that respects multi package licenses, upgrades, downgrades, time limitations and other aspects of license management.

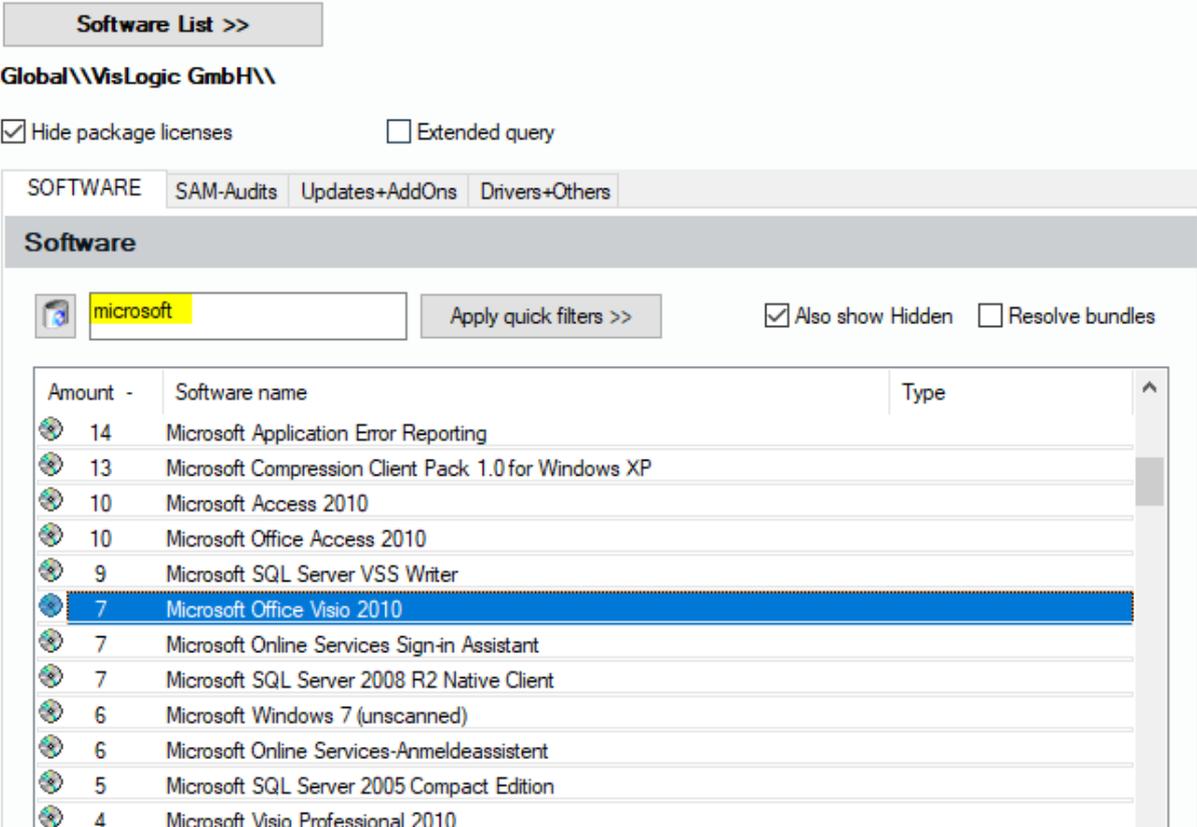
License balances and reports are described in the manual here, see 6.5.2 License Balance.

5.7 Special Approachs

To face the challenges in license management the Lan-Inspector contains several innovative functions. However, no innovation has enough magic to be ready for permanently changing conditions. There is almost nothing that can replace a competent consulting when it is based on a solid as-is analysis through inventory discovery. The latter is something the Lan-Inspector offers to you.

5.7.1 Hide Software or bundle it

If you have scanned your network, you will be surprised how many different products exist only in your own network. The Lan-Inspector offers quick filters to smoothen the lists like in the picture.:



Amount -	Software name	Type
14	Microsoft Application Error Reporting	
13	Microsoft Compression Client Pack 1.0 for Windows XP	
10	Microsoft Access 2010	
10	Microsoft Office Access 2010	
9	Microsoft SQL Server VSS Writer	
7	Microsoft Office Visio 2010	
7	Microsoft Online Services Sign-in Assistant	
7	Microsoft SQL Server 2008 R2 Native Client	
6	Microsoft Windows 7 (unscanned)	
6	Microsoft Online Services-Anmeldeassistent	
5	Microsoft SQL Server 2005 Compact Edition	
4	Microsoft Visio Professional 2010	

To filter more entries you're not interested in, you can mark software as **"hidden"** (see 6.4.2 Hidden Software Entries).

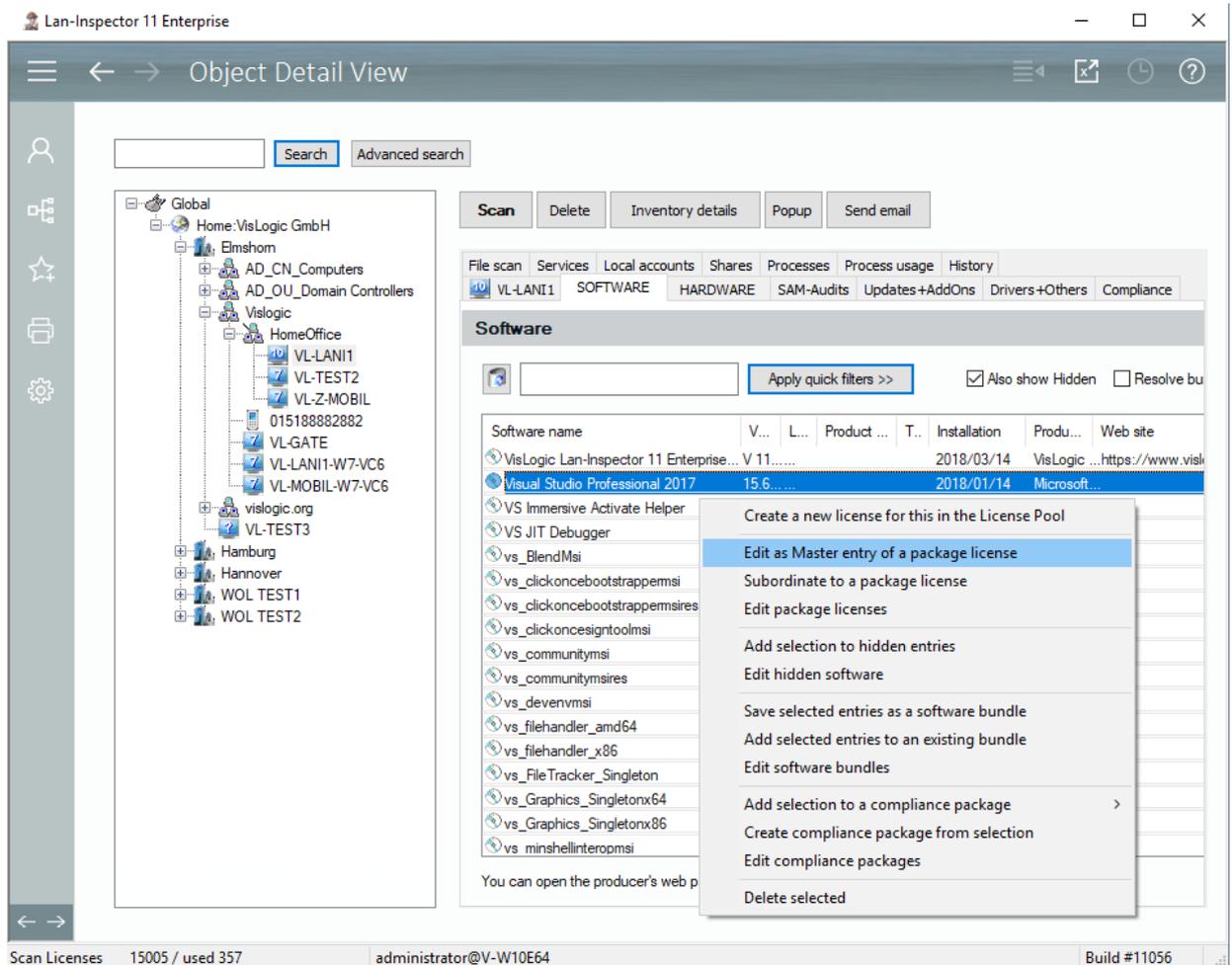
If you like to bundle products to a single entry, like in the example "Dot-Net", you can use bundle functions, see 6.4.1 Bundled Software Entries. "Bundles" and "Hidden entries" can be resolved or displayed again with a single click on the corresponding option field.

5.7.2 Package Licenses

Of course, it would be nice if each installation of a product resulted in only one installed entry in the PC's software list. Unfortunately, today's products install a whole bunch of additional products to be able to work properly. If you install a Visual Studio 2015, you can be sure to have about 20 other products in the software list of the PC afterwards. If looked upon themselves, these products need own licenses in most cases. But the license of Visual Studio contains them and makes their appearance legal if you got the main license "Visual Studio". How can you approach this?

Use package licenses. The Lan-Inspector introduces package licenses as those ones that deliver additional software entries as well during the installation. Visual Studio ist he main license which will be confronted with the number of purchased licenses. If Visual Studio is registered as a main license of a package license, all other products that belong to it will be ignored in license balance. The condition for that is that the main license is installed to the computer. This may be a hint of how complicated the algorithm needs to be. It's not enough to sum up the installations and confront them. Every PC has to be checked for the existence of main licenses to have the additional ones ignored.

You will find a description how you can edit package licenses here: 6.5.5 Manage Package Licenses. You can also create package licenses from the "Object Details"-view using a context menu:



5.7.3 Full Access to Archived Data

The Enterprise Edition has a very comfortable backup / archiving function (see 6.9.4 Grant Archive Access and 7.2.7 Backups and Archives). It enables you to recall the exact state of data from a specific Day in time, for example May, 2nd. last year. With the archiving function you can do any query you want with the state of data of the wanted day (write-protected).

You can exactly tell what was installed to a PC on that day, or recalculate the license balance of that day, using the archived state of data. The whole thing works from the day you activate the archive function.

5.7.4 Treasure Chest Lan-Inspector

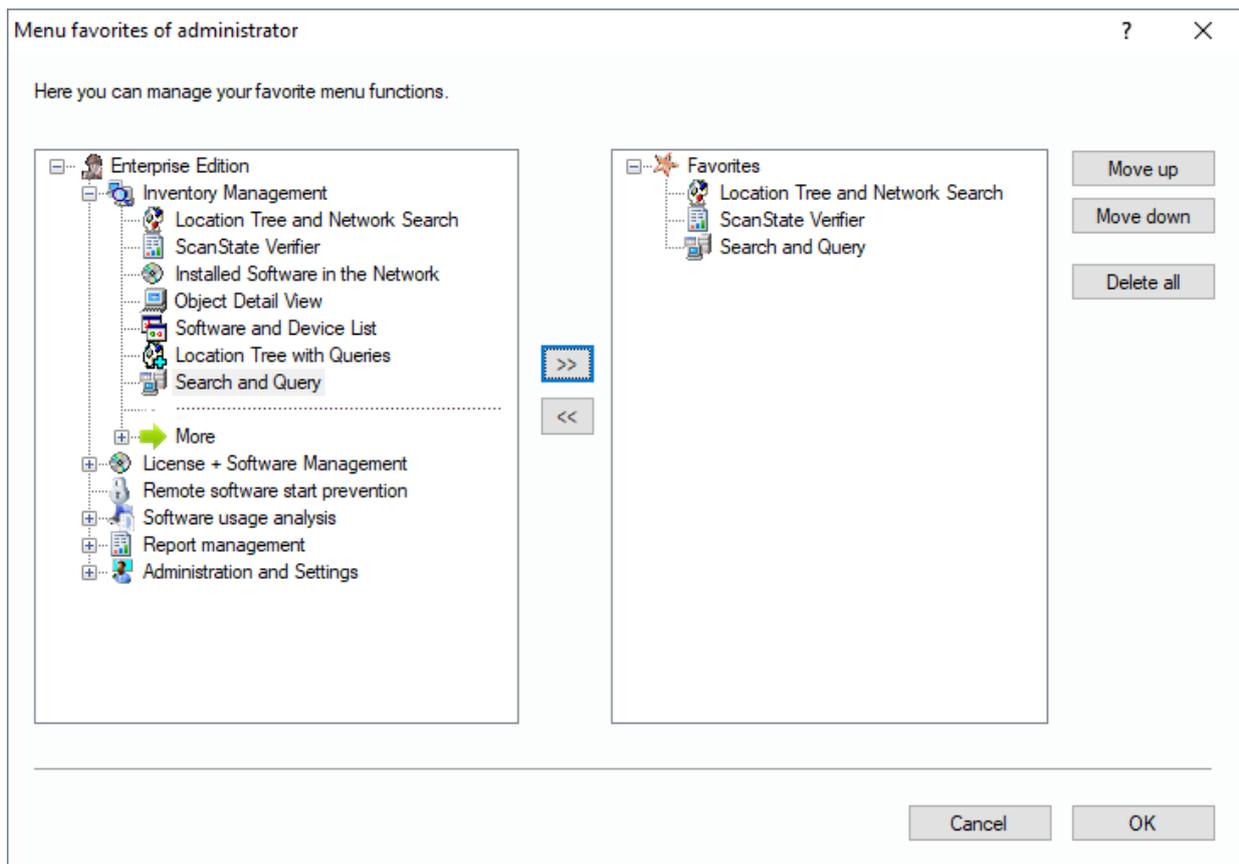
The first Lan-Inspector (version 1) was sold in the year 2000. Meanwhile many years have passed while the product has been further developed continuously. During the time we had an eye on backward compatibility concerning the client PCs. For long years, you could scan Windows 95 PCs. Finally, because no one really kept using Windows 95, in 2017, we stopped supporting the DOS based PCs. The Lan-Inspector is an extremely complex product with a broad range of functions for managing networks. In Version 11 we tried to sort and bundle the functions for comfortable usage. If you are convenient with the main components, you might want to try out the software usage monitoring or the software Blacklist/Whitelist functionality. Maybe you want that the network users enter information, so you can use the popup functionality.

6. Description of the Functions

6.1 Favorites

If you click on this menu item, you will find all views and functions that you added before by clicking the star (in the left bar). If you click “Manage favorites” in the menu, the following dialog appears, allowing you to edit your user specific favorites.

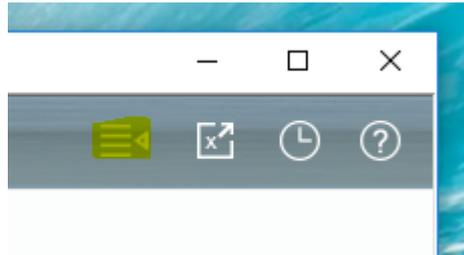
On the left side, you see the complete function tree containing all available functions. This can vary, depending on the user’s permissions.



6.2 Report Templates: Complex Queries Everywhere

The Lan-Inspector architecture allows you to store your queries as templates under “**Menu: Report management/Deposited reports**” (see 6.8.2 Deposited Reports).

Every view, every query, with any parameters, any column layout, almost every action of the data view within Lan-Inspector can be saved as template and applied to the current data at any time - and all you need are a few clicks.



Whenever you see the report list icon to the left activated, you can store the current query as a report by clicking the icon.

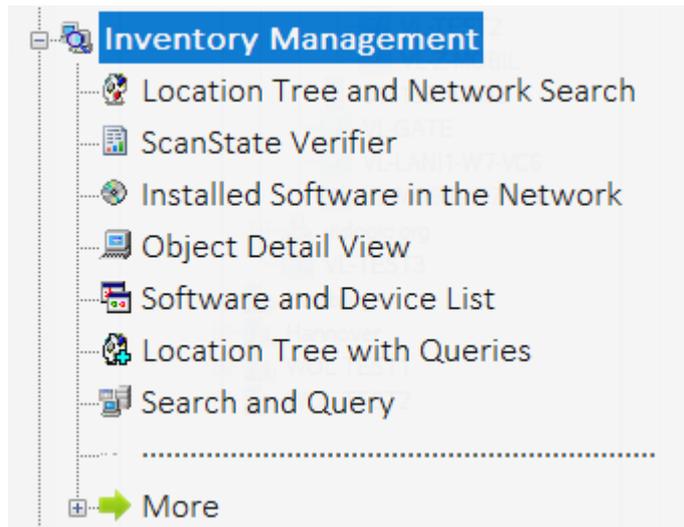
All deposited reports can be executed regularly in order to frequently send them via e-mail by using scheduled automation. That way, for instance, you will receive individually customized license reports via e-mail, weekly.

For more information on this topic, see the chapter on deposited reports.

“**Menu: Report Management/Deposited reports**”, see 6.8.2 Deposited Reports.

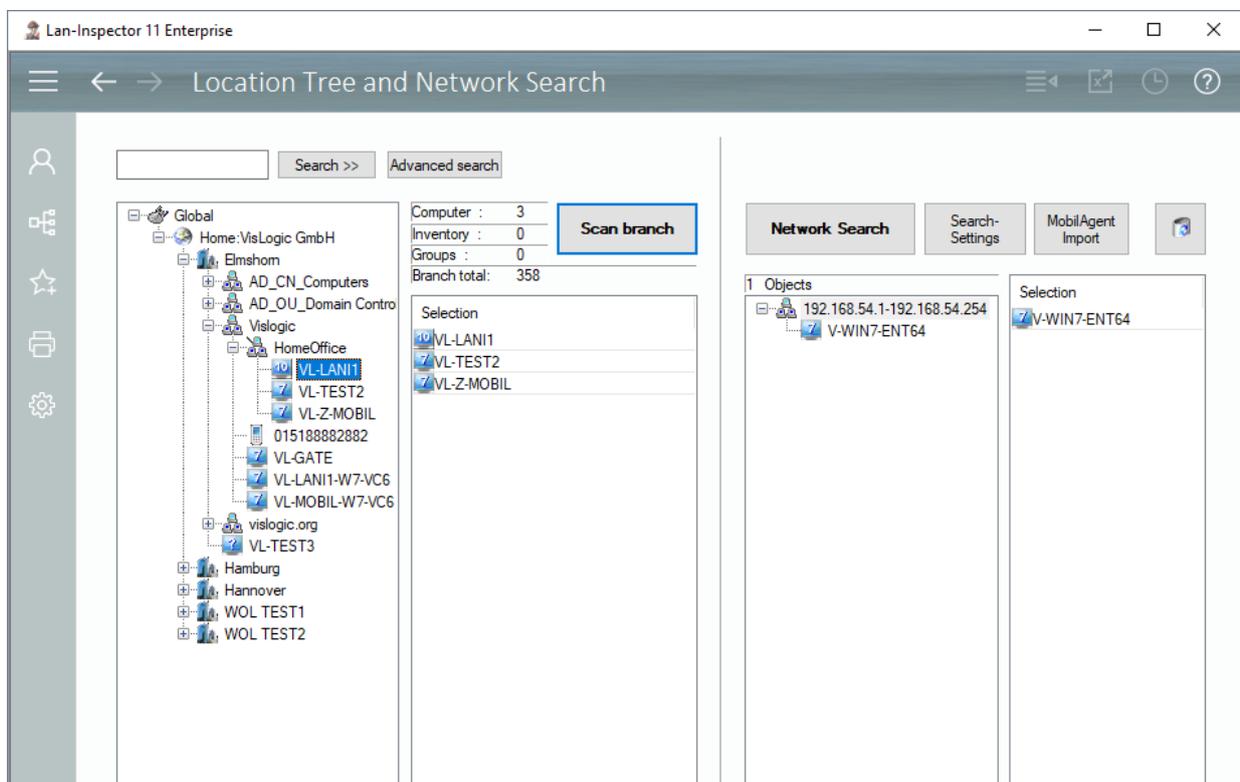
6.3 Inventory Management

This menu branch contains all functions that help manage the inventory of your network. Below, you will find various descriptions of available quick queries and data views that an embracing overview on the actual state of the network. Afterwards, the following sections describe the more advanced inventory functions, below the branch “More“:



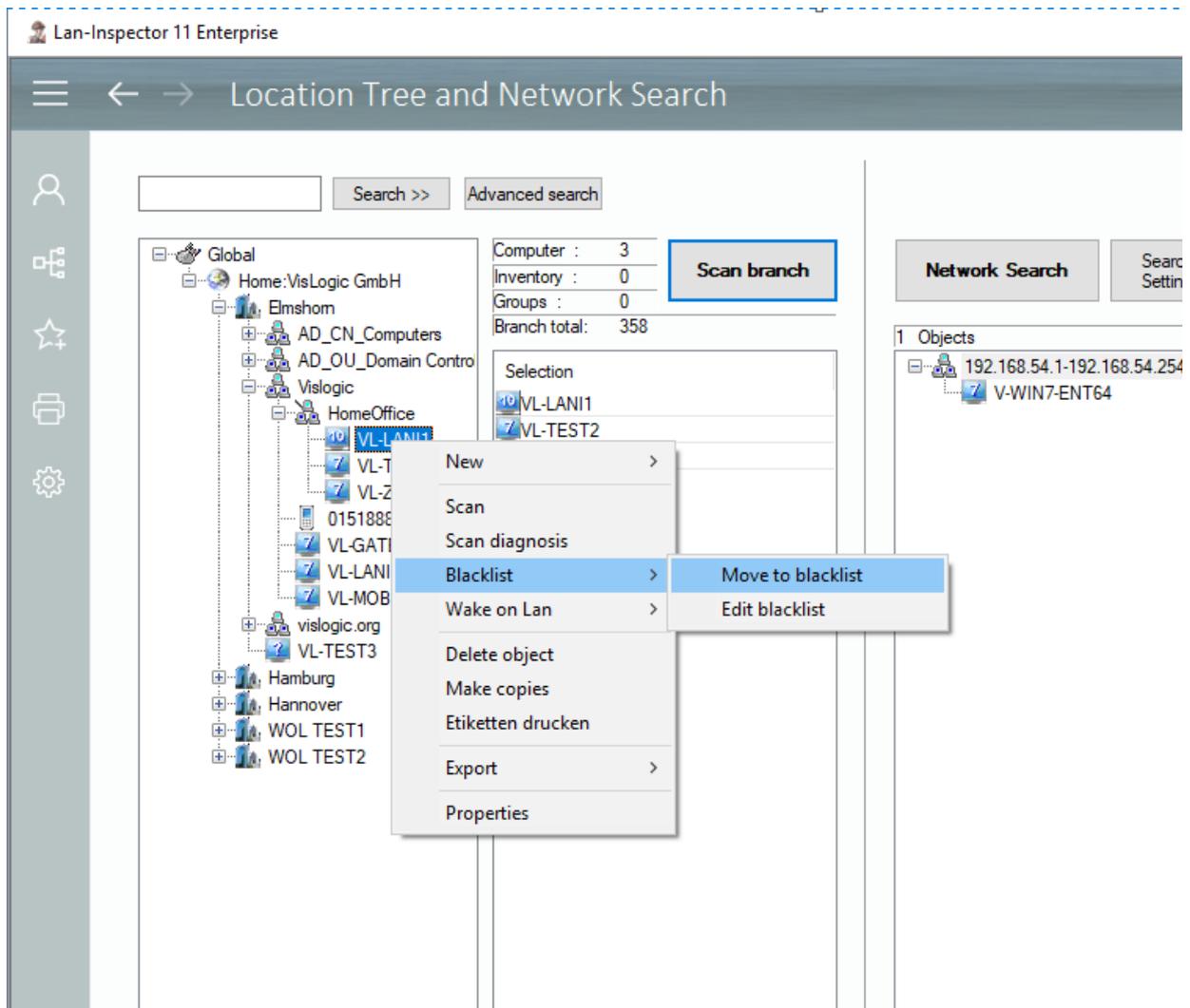
6.3.1 Location Tree and Network Search

The more precisely you work here the more meaningful your reports will be. To the left you see the location tree. You will find this tree structure in most of the inventory views. This panel has full drag and drop capabilities. You can move objects with your mouse. The location tree maps your company's structure in locations, groups and as many subgroups as required.



6.3.1.1 Context Menus of the Location Tree

Views in the Inventory menu item usually show the location tree. Using the right mouse button, you can call further functions within the location tree. Depending on the type of branch (Location, Group, or Computer etc.) the matching context menu will appear. That way, you can rename, delete and edit computers or move them to the blacklist of the computer search (see 6.4.6 Blacklist / Ignored Computers), and several actions more. The location tree context menu is the same in all inventory views.



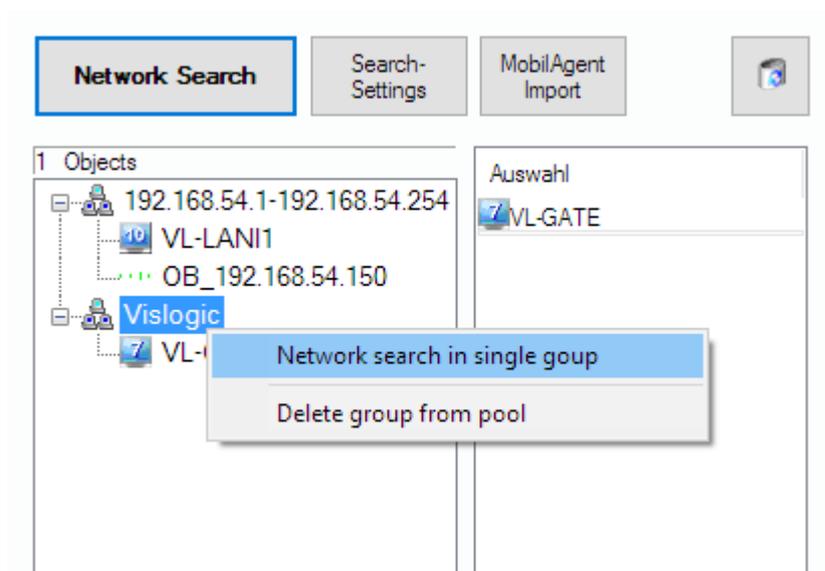
6.3.1.2 Pool of Objects and Network Search

On the right side, you see the computer pool. There all the newly found computers that were available in the network according to your search parameters appear. The computer pool builds up

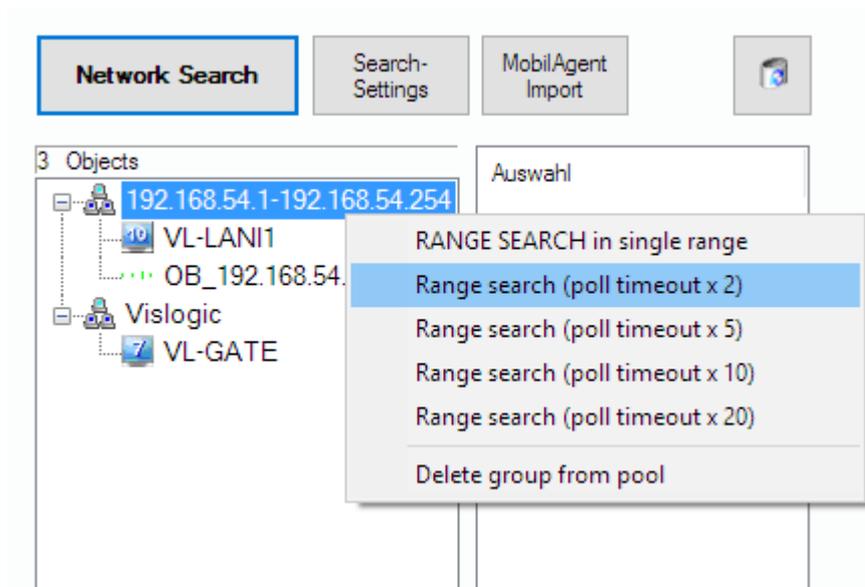
incrementally. If you leave computers there, they will stay in the pool until you assign them or you delete the pool. The “Search settings” button will open the search settings in the function menu. There you can change the search parameters, enter IP ranges or allow specific zones for the search only.

6.3.1.3 Context Menus of the Network Search

The default selection list has a context menu for computer or class objects offering additional functions. Furthermore, you can administrate the computer pool via its context menu.

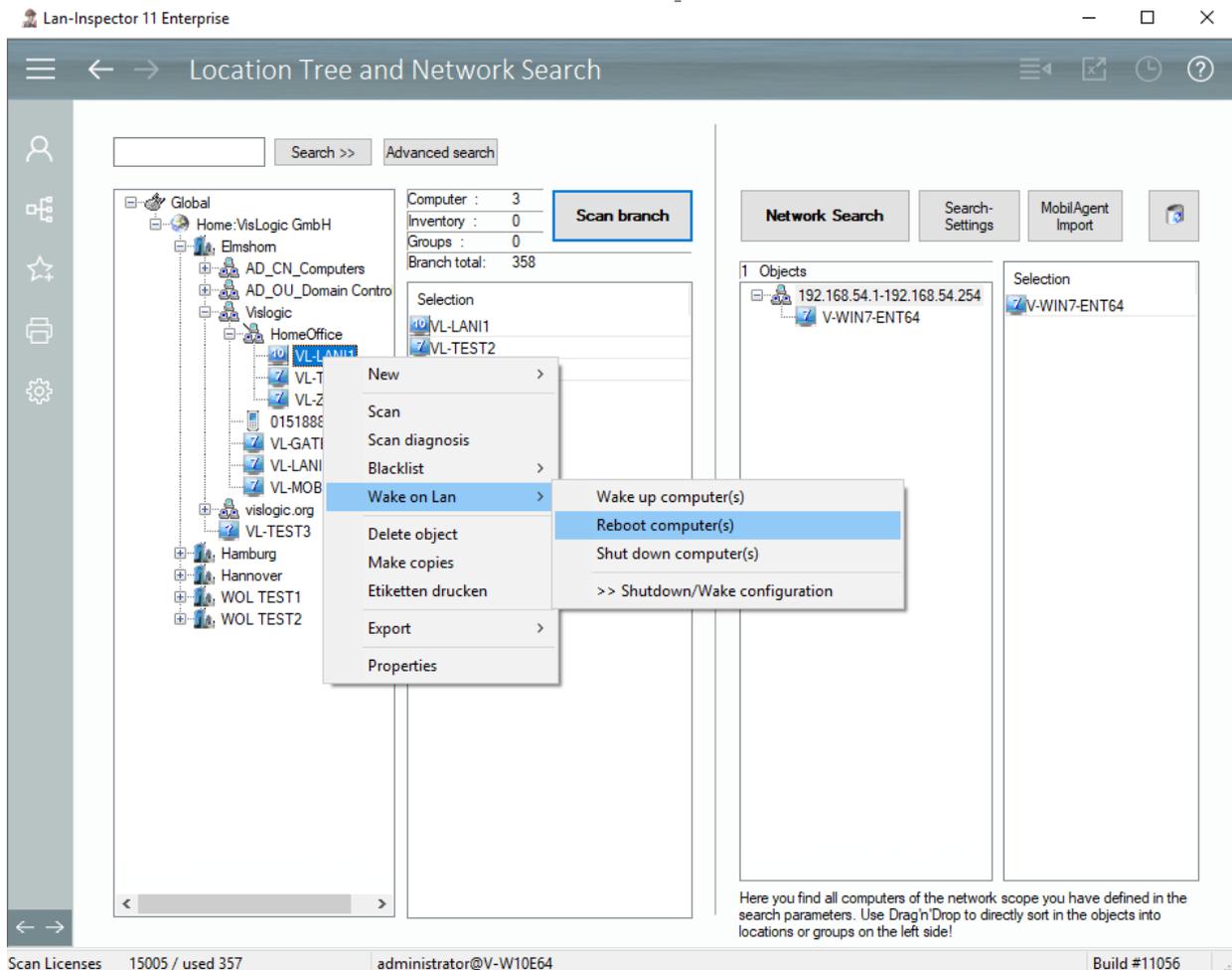


Depending on the search configuration (whether ADS search or IP polling) – individual groups or pools can be re-searched, deleted, or sorted. Using IP ranges, you can re-scan them or scan them with higher timeouts to increase the yield.



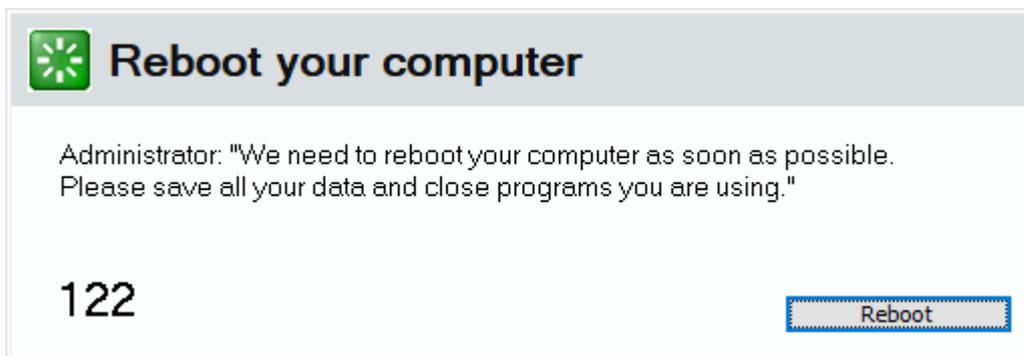
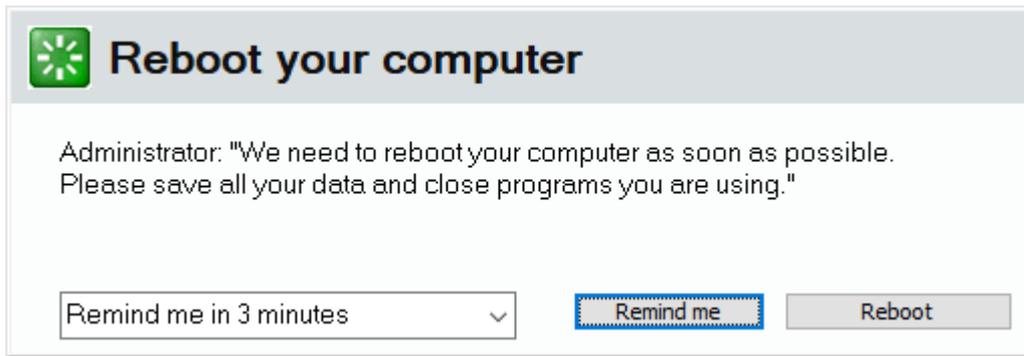
6.3.1.4 Context Menu of Wake-on-Lan Package

Lan-Inspector provides comprehensive functions for remote booting, shutting down, and restarting your machines. Use the context menu of the location tree by right clicking groups or single computers and selecting the corresponding function. The Wake-on-Lan configuration determines the way this context menu function works. You find it in the dropdown function menu under Settings, or just by calling it using the context menus.



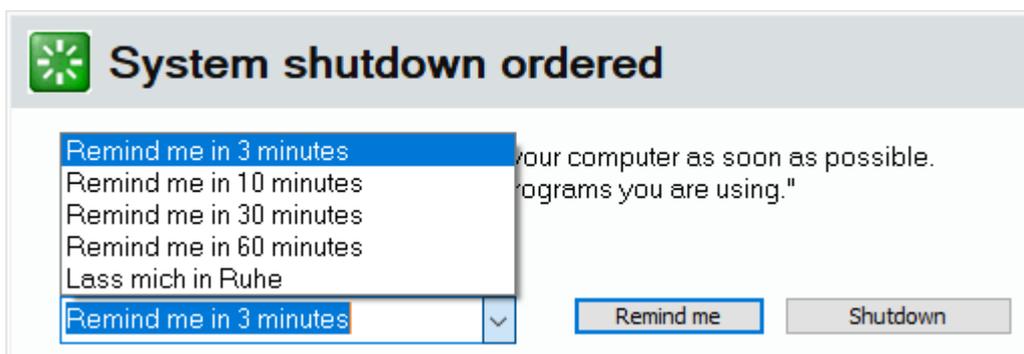
6.3.1.5 Restart/Reboot Computers

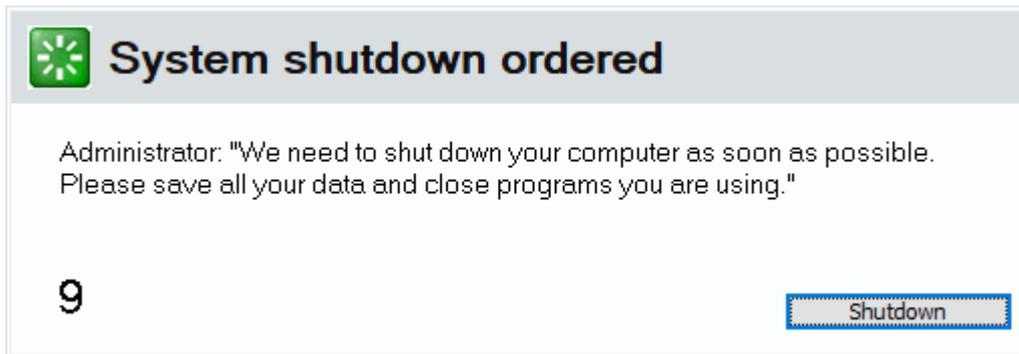
A simple restart of productively used computers usually provides problems. Therefore, Lan-Inspector offers two methods to restart computers remotely, as long as the current Lani agent is installed on the machine and it is running. The first way is sending a reminder window to the client. The currently logged in user will then be able to restart the computer himself, or agrees on a reminder after an extension, in say 10 minutes. The other way is showing a countdown window on the client. During the countdown, the user can save his data. After completion, the computer restarts automatically. You can customize the texts of these windows and the length of the countdown in the configuration.



6.3.1.6 Shutdown Computers

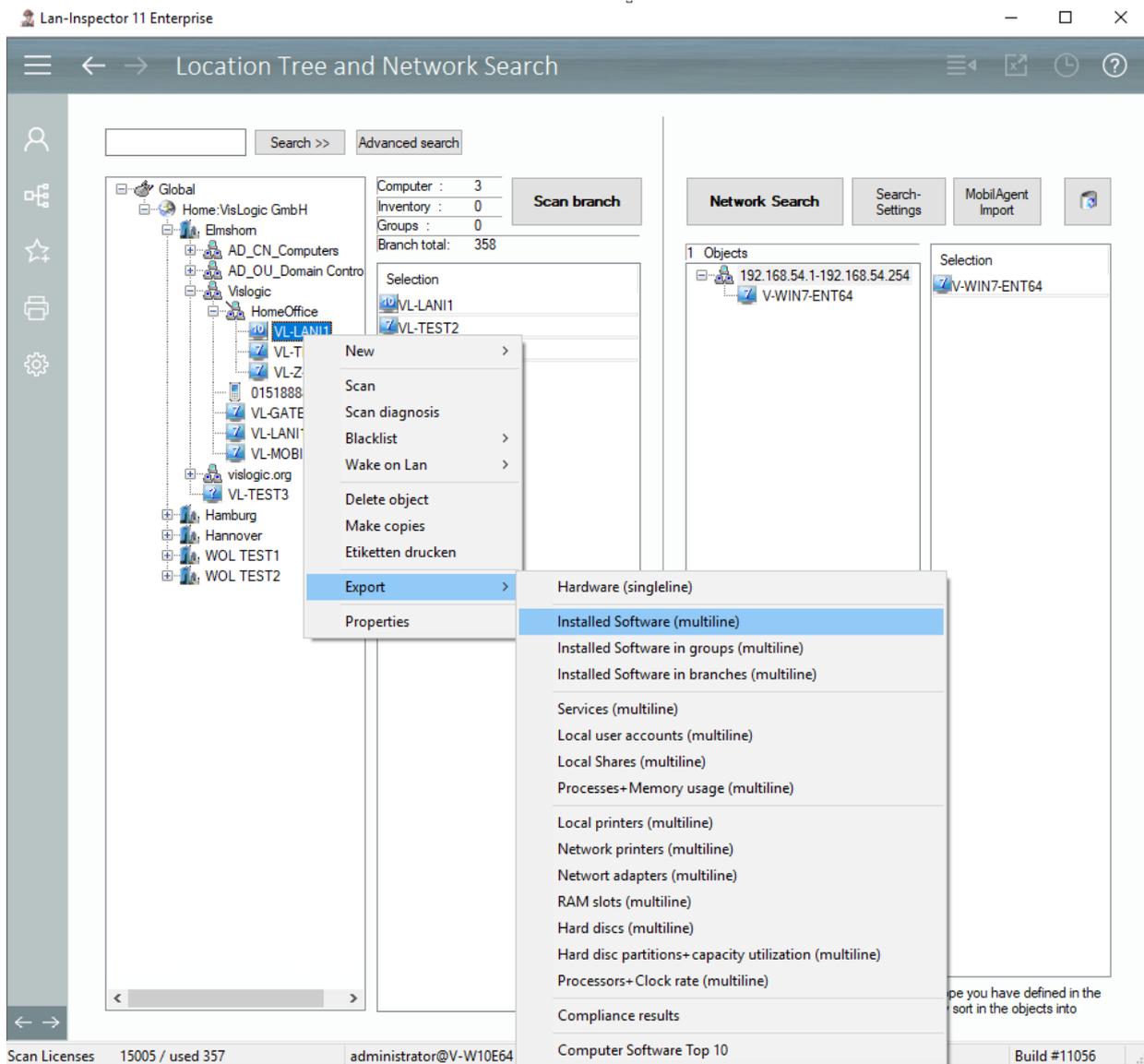
Shutting down computers is as delicate as a simple reboot. You also can signal the users to do it themselves and they can ask for a reminder. Alternatively, shut down can take place after counting down a specified time. Texts and countdown time are customizable as well.





6.3.2 CSV-Exports. Reports of Inventory Data

The Location Management allows you to export computer data from the perspective of the location tree's branches. If you need lists of data of specific departments in an Excel sheet, use the export interface via the context menu of the location tree. Select the desired branch, right click it, and select the desired export mode.



„**singleline**“ means that each machine has only one line in the table. The Lani processes multiple outputs like, for example, several monitors in separate, numbered columns (e.g. Monitor1, Monitor2, etc.). The Lani scans the data beforehand and determines how many numbered columns will be required for single data fields.

„**multiline**“ means that several lines will be required per computer data set due to specific multiple data links. In reality, the CSV-file will always start with the name of the computer. If there are several lines with this computer name, the following columns still refer to this one computer data set.

6.3.2.1 CSV: Hardware (singleline)

If you select this function, you will receive a detailed list of all the hardware components of the machines within the selected branch. Since this is a singleline export, there is one line in the table

reserved per computer. In case of multiple fields, such as several hard disks, numbered columns corresponding to the number of hard disks are added (Hard disk0, Hard disk1 etc.) This ensures writing of all the relevant Data in one line. The Lani scans the data base prior to export and selects the corresponding number of columns (current maximum is 20).

6.3.2.2 CSV: Installed Software in Groups (multiline)

This function gives you a detailed list of the total software installations per group und sub-group. This means that you receive a complete list of all the installation count per group for all existing software products within the desired branch. For example, this displays all the existing software products, if you start exporting the “default” location. In addition, it provides the number of existing installations for each subordinate hierarchy level. In contrast to “Software in branches”, this only provides the installation count on computers within the groups. The branch version provides the total number of installations of all subordinate hierarchy levels.

6.3.2.3 CSV: Installed Software in Branches (multiline)

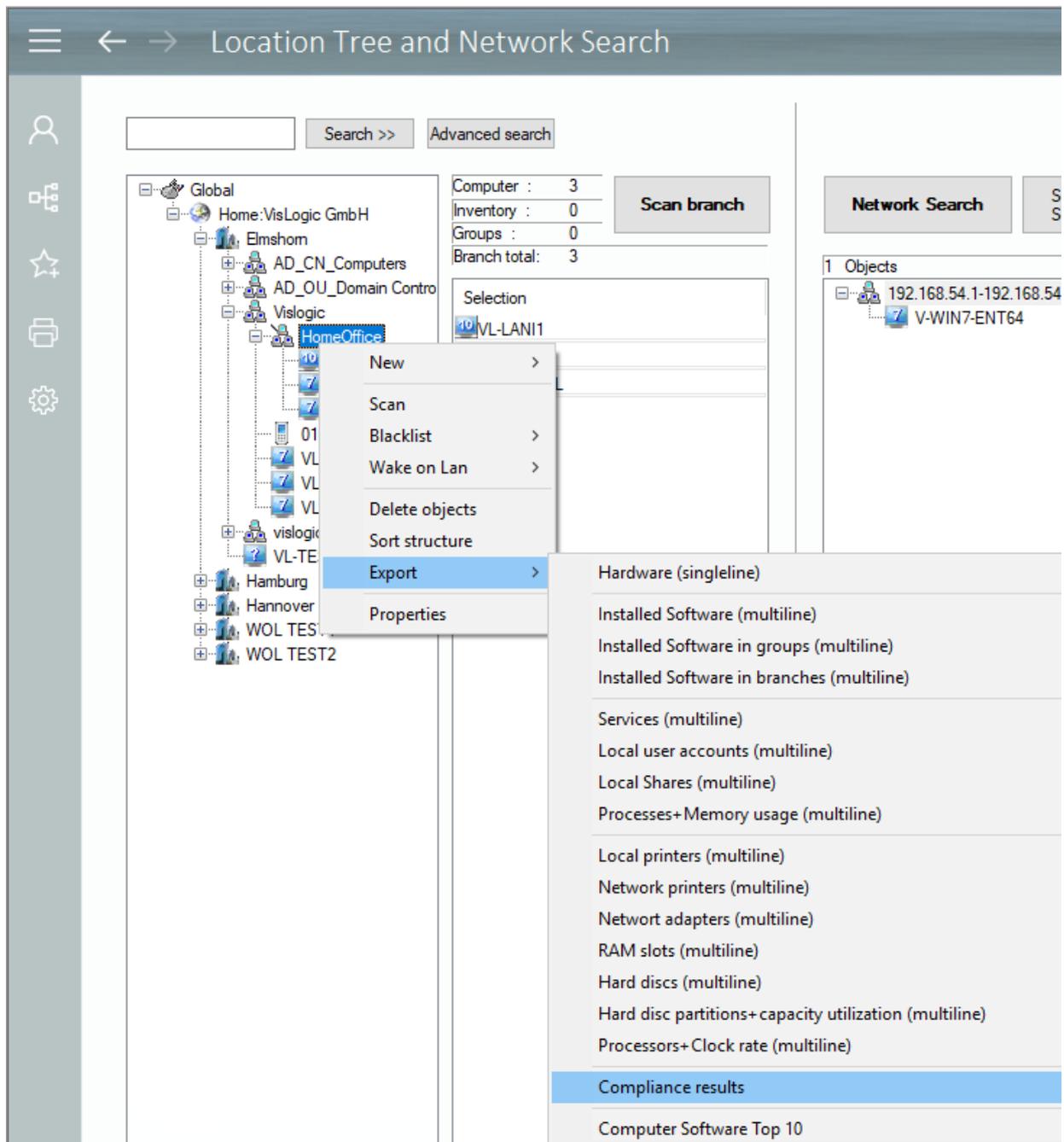
This report provides the installation count for each existing software for all the branches and subfolders. This differs from the software group export in that here you get a total of all installations on all computers within a selected group and its subfolders when you drill down into the tree. The report considers the software of all the computers of the selected branch and all subfolders.

6.3.2.4 CSV: Additional Export Capabilities (multiline)

The other functions save reports on local user accounts, local shares, processes, services, local printers, network printers etc.

6.3.2.5 CSV-Compliance Report (multiline)

The “Data Management” section provides a description of the Computer Compliance Editor you can use to define any compliance packages. A compliance package consists of a set of software products, required for the computer to achieve a certain compliance level. After full installation of the required software, the computer receives a label. You can also search for this label in the queries (or use “not” to conduct a negative search).



6.3.2.6 Parameters of the Compliance Report

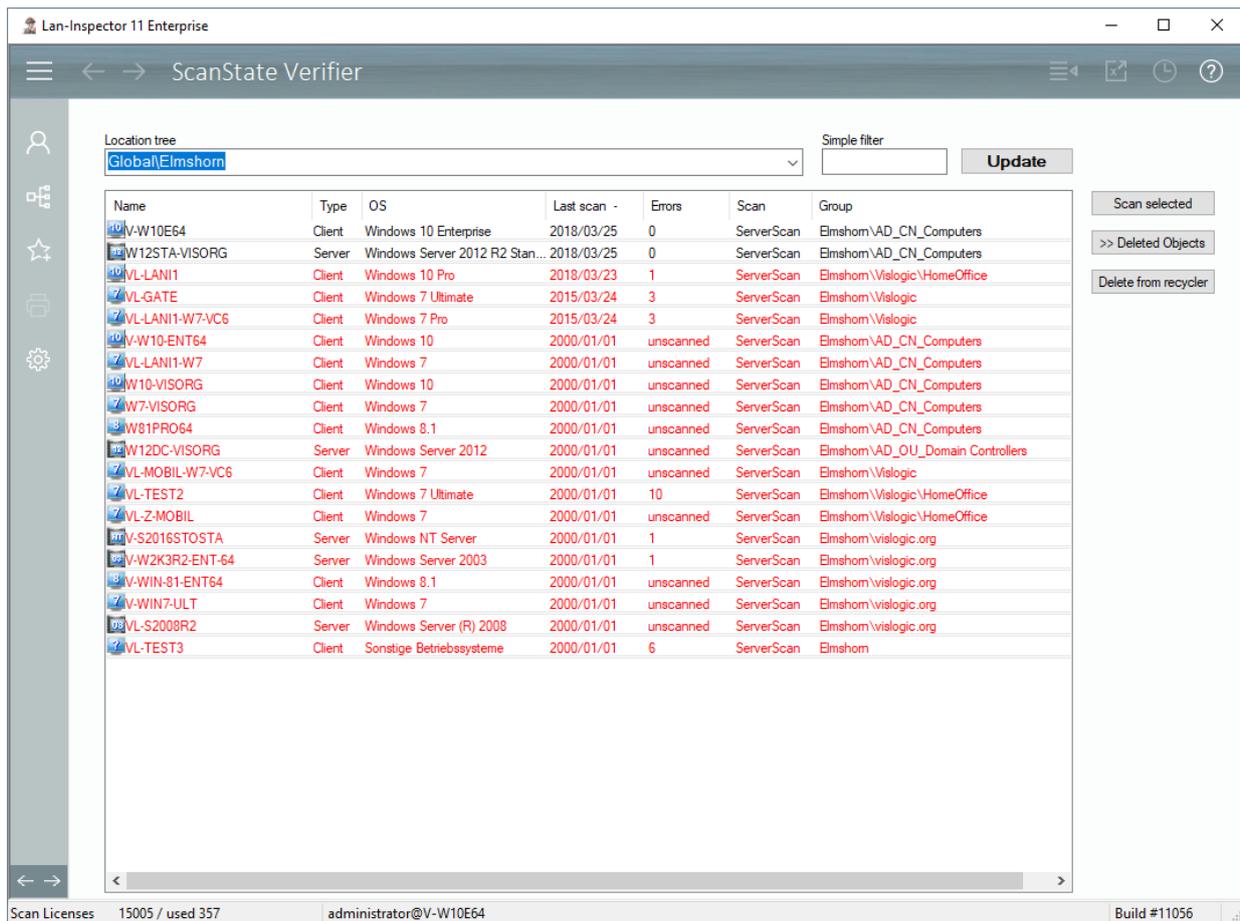
You can combine three different compliance packages you have defined before. The report will show you a detailed apportionment of achieved compliance packages and those that failed for the PCs. If you select the advanced report, the report also contains information about missing software products causing the compliance package to fail, and information about all software that is installed on the computer without being in any compliance package.

6.3.2.7 CSV: Installierte Software (multiline)

Bei dieser Exportfunktion können Sie alle Softwareeinträge aller Rechner des gewählten Zweiges exportieren. Da ein Rechner viele verschiedene Softwareprodukte installiert haben kann, ist dies ein multiline-Export. Das heißt, jeder Softwareeintrag wird in einer separaten Zeile exportiert, beginnend mit dem Rechnernamen dessen Inhalt gerade ausgegeben wird.

6.3.3 ScanState Verifier

The quality of your inventory data base depends on how up to date the records are. This is the reason why you should consider repeating inventory scans of your network often and continuously. The “ScanState Verifier” helps you check the date of the last scans and re-scan directly if the scan is too old.



Use the dropdown field below location tree and choose the level you want to have a look on. Additionally, you can set a simple name filter to focus on certain computers. Click “Update” to get the records like in the picture.

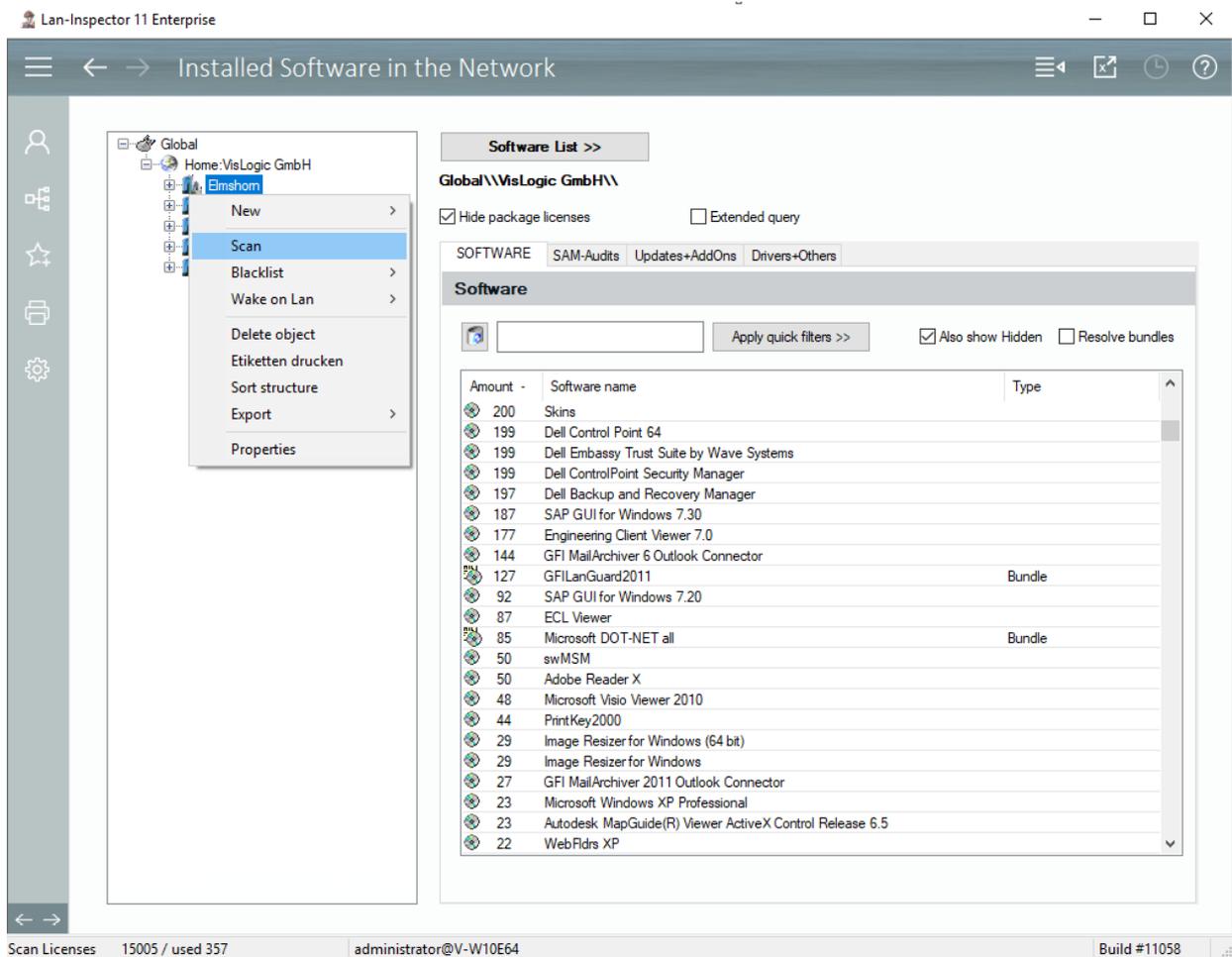
Now you can select entries or click on the column headers in order to sort them in a way that helps you. Select the computers that are not up to date and then click “Scan selected” to try to update them. You can also delete them back into the pool, or completely erase them from the data base.

The ones in the picture that show a date of the year 2000 are new PCs that haven’t been scanned at all, yet.

If you cannot scan all the same PCs all again, you can clean up those old objects, because they may have been physically removed from the network

6.3.4 Installed Software in the Network

This data base view provides a quick look on the installations and the number of their appearance in the network. On the left side, you see the location tree again. Choose a branch and click on software list to generate the report. You can also use the right mouse button on the branches to display the context menu described before.



The software / installation list contains several tabs you might already have seen in the “Object Details”, see 6.3.6 Object Detail View for Computer Objects. The software is sorted into Software, SAM-Audits, Updates and Addons, drivers + others.

6.3.4.1 Option “Hide package licenses“

Activate this option if you want to hide installations from software packages and thus not count them. Certain types of software bring a whole set of additional installations with them (e.g. redistributables that are installed with the main product). If the Lan-Inspector finds such a main product on the computer, it ignores registered packaged products for the computer data set and does not count them among the total.

6.3.4.2 Software Tab

This is the complete list of software installations contained on computers of the chosen branch. You can set a quick filter to focus on certain products or vendors. Use the recycler symbol to remove the filter and to update the list.

Software List >>

Global\\WisLogic GmbH

Hide package licenses Extended query

SOFTWARE SAM-Audits Updates+AddOns Drivers+Others

Software

 Microsoft **Apply quick filters >>** Also show Hidden Resolve bundles

Amount	Software name	Type
 278	Microsoft Windows 7 Professional (x64)	
 1	Microsoft VM for Java	
 1	Microsoft Visual Studio 6.0 Enterprise Edition	
 1	Microsoft Web Publishing Wizard 1.53	
 6	Microsoft Windows 7 (unscanned)	
 3	Microsoft Windows 7 Ultimate (x64)	
 23	Microsoft Windows XP Professional	
 85	Microsoft DOT-NET all	Bundle
 287	Microsoft Rechner-Plus	
 18	Microsoft Office Standard Edition 2003	
 17	Microsoft Office Visio Viewer 2003	
 13	Microsoft Compression Client Pack 1.0 for Windows XP	
 277	Microsoft Office Home and Business 2010	
 277	Microsoft Office Single Image 2010	
 274	Microsoft Office Office 64-bit Components 2010	
 1	Microsoft Windows Server 2003 R2 Standard (x64)	
 1	Microsoft iSCSI Target	
 1	Microsoft Windows SharePoint Services 2.0	
 2	Microsoft Office Word Viewer 2003	
 2	Microsoft Office Excel Viewer	
 48	Microsoft Visio Viewer 2010	
 2	Microsoft PowerPoint Viewer	

6.3.4.3 SAM-Audits Tab

This list contains all products that need your attention concerning SAM audits. At the moment the filters are only available for Adobe and Microsoft products. Of course, we cannot guarantee that the filters map all products, but if you stumble across strange or wrong entries, please let us know.

Software List >>

Global\VisLogic GmbH

Hide package licenses Extended query

SOFTWARE **SAM-Audits** Updates+AddOns Drivers+Others

SAM-Audits

 Apply quick filters >> Also show Hidden Resolve bundles

Amount	Software name +	Version	Edition	Language	Architecture	Type
1	Adobe Acrobat Professional	8	Professional	...		
2	Adobe Acrobat X Pro	...		...
2	Adobe Acrobat XI Pro	...		...
2	Adobe Creative Suite Design Standard	5.5	Standard	...		
1	Adobe GoLive	6.0		...		
2	Adobe LiveCycle Designer ES3	...		...
2	Adobe Photoshop	5.5		...		
1	Adobe Refresh Manager	...		...
10	Microsoft Access	2010		...		
3	Microsoft Exchange Server	2010		...		
3	Microsoft Exchange Server	...		...
10	Microsoft Office Access	2010		...		
17	Microsoft Office Access	2003		...		
1	Microsoft Office Home and Business	2016	Business	...		
277	Microsoft Office Home and Business	2010	Business	...		
2	Microsoft Office Outlook	2010		...		
2	Microsoft Office Professional Plus	2010	Professional	...		
2	Microsoft Office SharePoint Designer	2010		...		
277	Microsoft Office Single Image	2010		...		
2	Microsoft Office Standard	2010	Standard	...		
18	Microsoft Office Standard Edition	2003	Standard	...		
2	Microsoft Office Standard Edition	97	Standard	...		

6.3.4.4 Updates+AddOns Tab

This list contains everything about updates, hotfixes or additional windows features.

Software List >>

Global\\WisLogic GmbH\\

Hide package licenses Extended query

SOFTWARE SAM-Audits Updates+AddOns Drivers+Others

Updates&AddOns

 Apply quick filters >> Also show Hidden Resolve bundles

Amount	Software name	Type
294	Windows Service Pack 1	
1	Vulkan Run Time Libraries 1.0.65.1	
1	VS Script Debugging Common	
1	Universal CRT Tools x64	
1	Content Manager	
1	Visual C++ Library CRT Appx Package	
1	HP Update	
1	Universal CRT Headers Libraries and Sources	
1	Universal CRT Tools x86	
1	Visual C++ Library CRT Desktop Appx Package	
1	Visual C++ Library CRT Appx Resource Package	
1	Universal CRT Extension SDK	
1	Common Setup Files (3790.0)	
20	Windows Service Pack 3	
21	Microsoft Internationalized Domain Names Mitigation APIs	
6	Hotfix für Windows XP (KB942288-v3)	
16	Hotfix for Windows XP (KB954550-v5)	
21	Microsoft National Language Support Downlevel APIs	
273	SAPSetup Automatic Workstation Update Service	
6	Windows Media Format Runtime	
13	XML Paper Specification Shared Components Pack 1.0	
10	XML Paper Specification Shared Components Language Pack 1.0	

6.3.4.5 Drivers and Others Tab

If you look at this list, you will find all drivers, setups and installers that save themselves into the registry. Please note that the list doesn't contain drivers right now, because they are hard filtered by the miscellaneous software filters (see 6.4.3 General Software Filters). These miscellaneous filters help increase the performance of the data base, because they vastly decrease size of data.

Software List >>

Global\\VisLogic GmbH\\

Hide package licenses Extended query

SOFTWARE SAM-Audits Updates+AddOns Drivers+Others

Drivers&Others

 Also show Hidden Resolve bundles

Amount -	Software name	Type
234	Catalyst Control Center - Branding	
229	Catalyst Control Center Graphics Full New	
229	Catalyst Control Center Graphics Full Existing	
229	Catalyst Control Center Graphics Light	
229	Catalyst Control Center Graphics Previews Vista	
229	Intel(R) Rapid Storage Technology	
213	Wave Infrastructure Installer	
208	Intel(R) Control Center	
201	Wave Support Software	
201	EMBASSY Security Setup	
200	ATI Catalyst Control Center	
198	Intel(R) Network Connections 14.8.43.0	
183	Adobe Flash Player 11 ActiveX	
92	Adobe Flash Player 12 ActiveX	
47	Adobe Shockwave Player 12.0	
46	Adobe Flash Player 11 Plugin	
45	Adobe Flash Player 12 Plugin	
30	ATI Catalyst Install Manager	
26	Intel(R) Processor Graphics	
18	WIDCOMM Bluetooth Software	
14	Adobe Flash Player 10 ActiveX	
14	DeviceLock	
14	Dell Touchpad	

6.3.4.6 Option “Resolve Bundles“

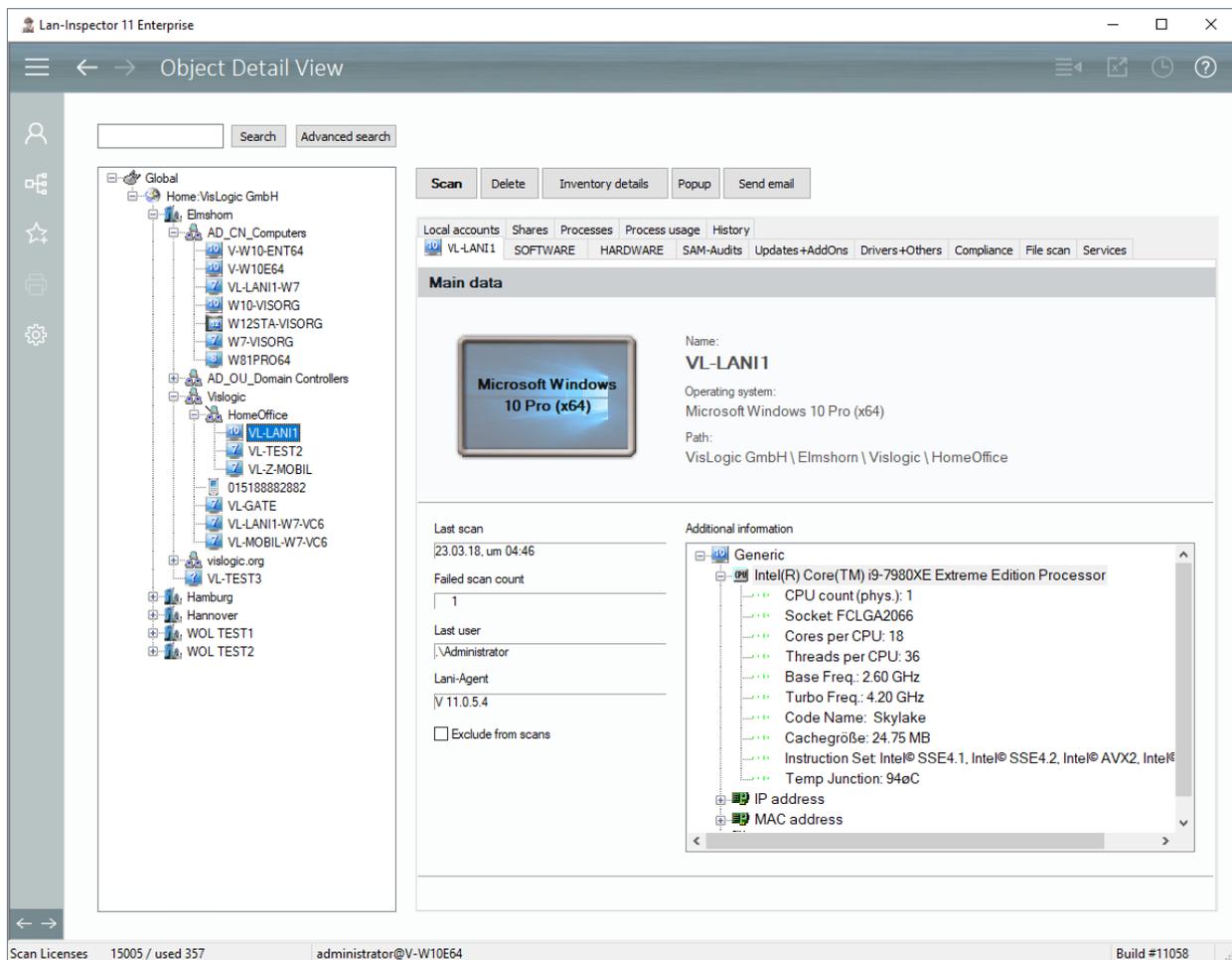
Activate this if you want to resolve software bundles while creating the software list. Software bundles allow you to map subversions to one superior product name.

6.3.4.7 Option “Also show Hidden“

If you have hidden entries before in order to clean up the lists, you can quickly unhide those entries by activation this option.

6.3.5 Object Detail View

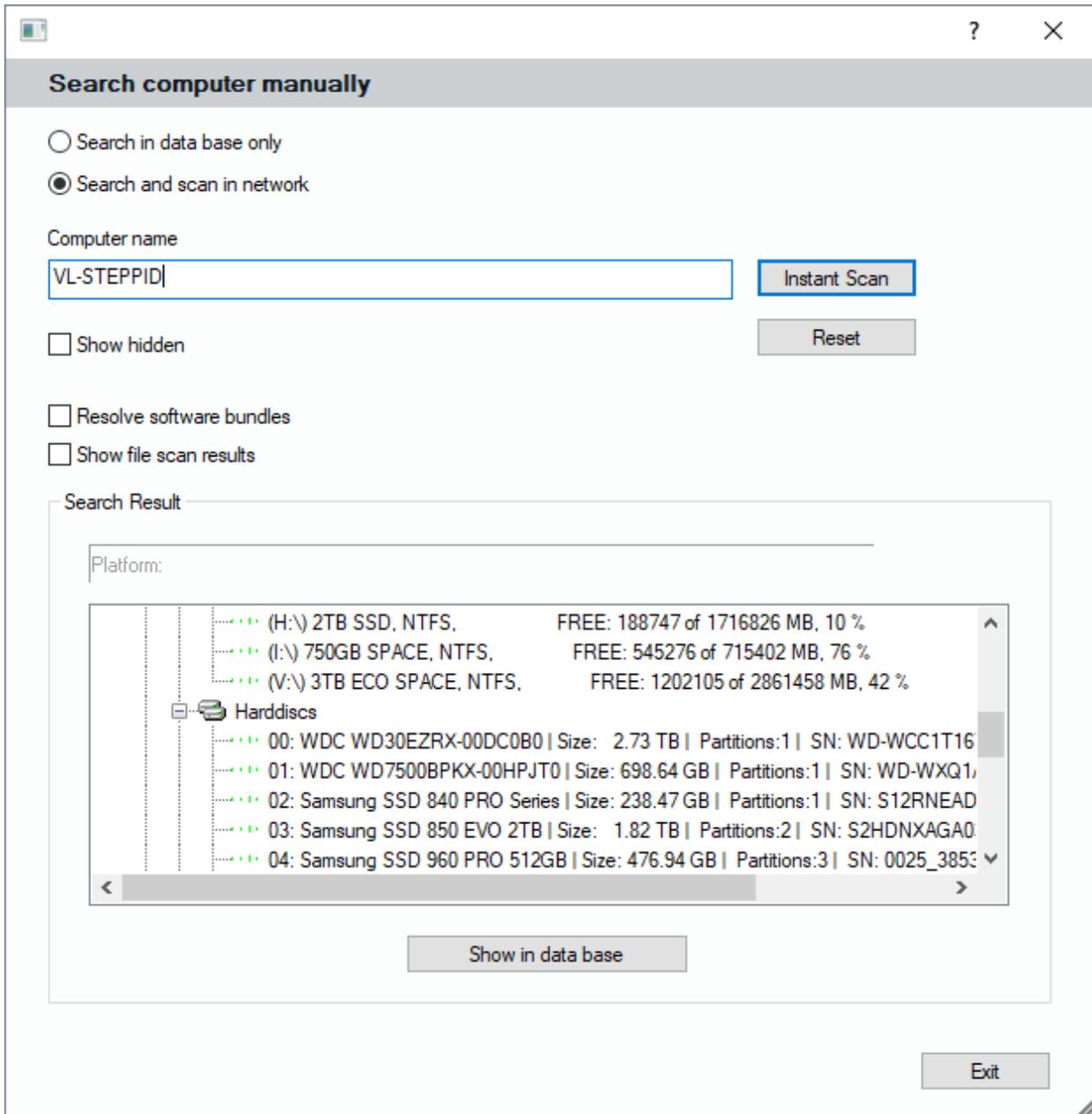
If you want a close look on specific objects, you can use the object detail view. Select an object from your location tree, and all available data will be displayed on the right side. As this view uses the location tree again, you can call up the context menu with the right mouse button as well if you want to scan PCs. The object detail view depends on whether you display the data of a computer object or if it is a user defined inventory object. Inventory objects are instances that derive from inventory classes you can define yourself (like handys or such), see 6.4.5 Define Inventory Classes.



6.3.5.1 Buttons Search and Advanced Search

The simple search button lets the focus jump to the object that matches the name fragment. If you use the advanced search, you get an own search mask that enables you to search in the data base or alternatively in the network if the object wasn't found in the records. If you find a computer in the

network, you can decide to add it to the data base then. If you have selected a branch in the location tree before, the object will be added there.



6.3.5.2 Buttons Scan and Delete

If you have selected a specific object, you can use the context menu to scan or delete it, or you can click on these buttons which maybe a bit quicker.

6.3.5.3 Button Inventory Details

When you have selected an object in the tree and you see the inventory data on the right side, you can also click on the inventory details button. This opens a window that helps add certain information that belongs to the object, such as Inventory Number, Main User, etc. You can also enter data into the 20 user defined data fields every object offers. In the picture the fields 1-20 have user defined names and some of them are hidden.

About this object / details

Name: VL-LAN1
Platform: Microsoft Windows 10 Pro (x64)
Group: \\\
Last scan: 23.03.18, um 04:46
Scan count: 2
Failed scans: 1

Additional information

Inventory number: 182389
Main user: GoMa
Room / building: RAUM NULL
State:

User defined data fields

Producer	DELL
Anschaffungsdatum	
Department	DEV
Salutation	
Name	Goseler
First name	Martin
Telephone	111
Comment	
Sonderausstattung	
Fixed IP address	
Grund für feste IP	
Cost center	
Dosen-Nr.	
Geräte-Nr.	

Apply Cancel OK

6.3.5.4 Button Send E-Mail

The scan of a PC system usually adds the last user account logged on to that computer to the records (Windows user account). If you are running an Active Directory Server in a domain and if you have sufficient rights, you can click on the button "Send E-Mail". The system can try to retrieve the corresponding e-mail address from the active directory in order to send a message to the user of the PC. The reason for sending an e-mail to that user may be that he has installed software which is not allowed or does not match compliance standards. The following dialog lets you access pre-defined e-mail blocks you can send to that user. You can also edit those templates if necessary by clicking on „Edit Email Templates”, see 6.3.3.2 Edit E-Mail Templates.

Send directive email

Computer name: VL-LANI1 Last user: vislogic.org\Szenessy Email ADS import >>

Send directive email

You can select several software products of this computer. The software names are available as variables in your email block (%SOFTWARE_1% - %SOFTWARE_N%), %SOFTWARE_ALL% contains an enumeration of all selected entries (separated by linefeed). Show hidden
 Resolve version bundles

Software name	Ver...	La...	Product key	T...	Installation	Producer	Web site
DiagnosticsHub_CollectionService	15.6...	English			2018/03/09	Microsoft C...	
DocProc	140.0...	English			2018/02/19	Hewlett-Pa...	http://www.hp.com
Dropbox	45.4.92 ...					Dropbox, I...	https://www.dropbox...
Effective File Search 6.8.1	6.8.1					SOW	http://www.sowsoft.c...
Elite Dangerous						Frontier De...	http://www.elitedange...
FileZilla Client 3.31.0	3.31.0					Tim Kosse	https://filezilla-project...
GlobalSign (SAC Version 9.0)	9.0.4...	English			2018/01/14	SafeNet, Inc.	http://www.globalsign..

Send e-mail to: m.szenessy@xxx.de Full Name from (%NAME%): M. Szenessy

Subject: Beispiel Edit Email Templates

Hello %NAME%!
We have scanned your PC and found unwanted software on it:
%SOFTWARE%
Please uninstall.

Sendmail configuration Cancel Send email >>

The templates can use certain variables to send individual e-mails. Of course, this only works if you have specified a working sendmail configuration, which can be done after clicking “SendMail Configuration”, see also 6.9.6 Sendmail Configuration.

6.3.5.5 Variables of the E-Mail Function

%NAME% = Full name from ADS

%SOFTWARE_ALL% = All selected software products from the list, in quotation marks, in subsequent lines

%SOFTWARE_1% - %SOFTWARE_N% = the selected software product respectively

%COMPUTER% = Computer name

6.3.5.6 Button Popup

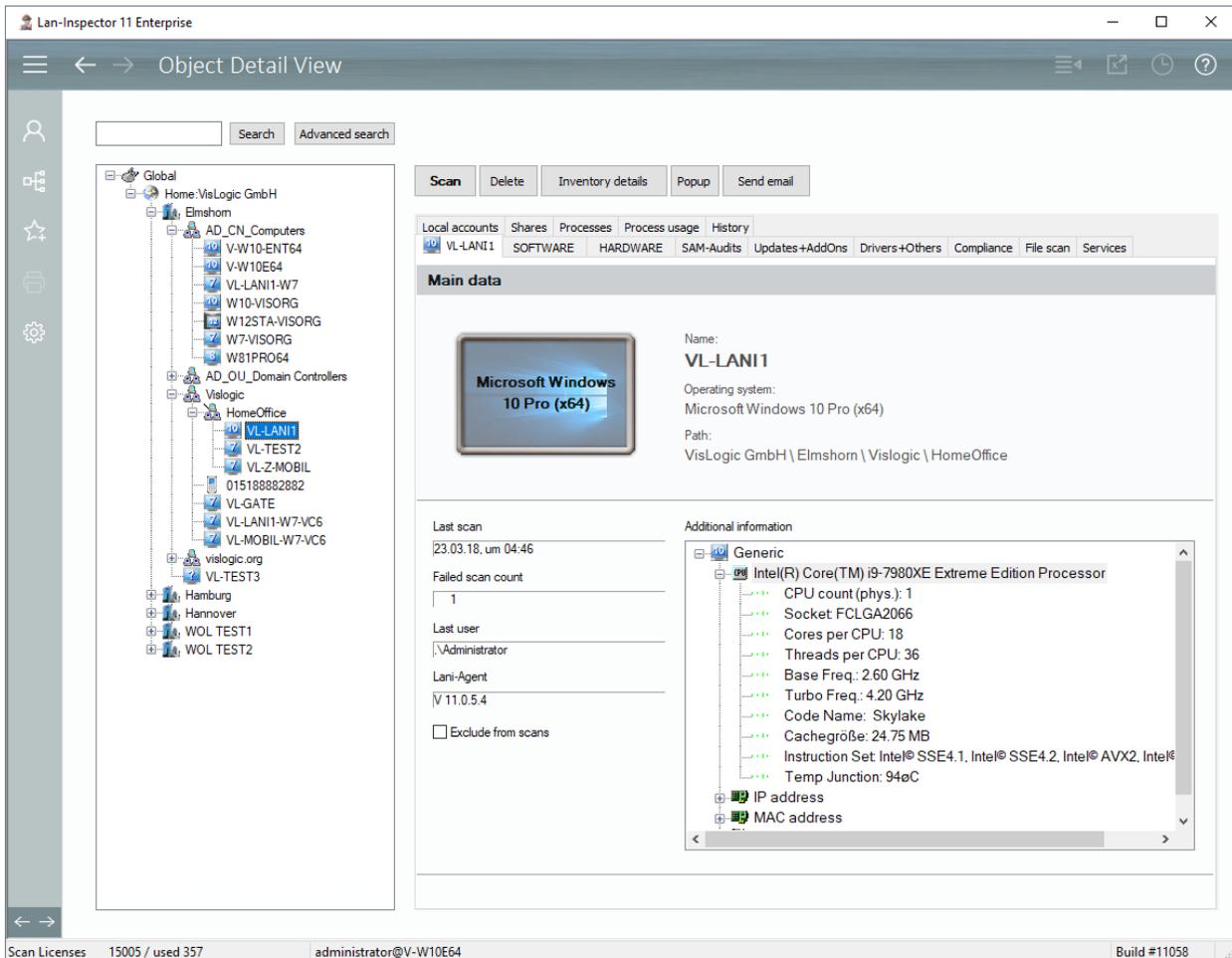
If you want to involve the user in front of his PC, you can send a popup window to his desktop. It is a dialog that ask for data entry. What data will be asked for is matter of your configuration. We recommend configuring data such as room number. This manual sending of a popup window also can be automated into a process that happens during regular scans. If you are interested, have a look at 6.4.9 Configure Popup Input (local popup window).

6.3.6 Object Detail View for Computer Objects

Selecting a computer object in the location tree on the left enables the following options:

- a) Scan the computer by clicking "Scan",
- b) delete the computer by clicking "Delete",
- c) send a popup dialog for data entry (see also 6.4.9),
- d) send an e-mail to the last user of the PC
- e) query the inventory details and open up the corresponding dialog.

On the right side, everything in the record will appear in a structured manner.



6.3.6.1 Computer Object: Overview Tab

You will find all the significant information regarding computer management on this overview page: OS, CPU-Specs, IP and MAC address and the Bios serial number as well as information about the last scan and the last user. This tab also offers an option to explicitly exclude this PC from further scans.

Local accounts | Shares | Processes | Process usage | History

VL-LANI1 | SOFTWARE | HARDWARE | SAM-Audits | Updates+AddOns | Drivers+Others | Compliance | File scan | Services

Main data

Microsoft Windows 10 Pro (x64)

Name: **VL-LANI1**

Operating system: Microsoft Windows 10 Pro (x64)

Path: VisLogic GmbH \ Elmshorn \ Vislogic \ HomeOffice

Last scan

23.03.18, um 04:46

Failed scan count

1

Last user

.\Administrator

Lani-Agent

11.0.5.4

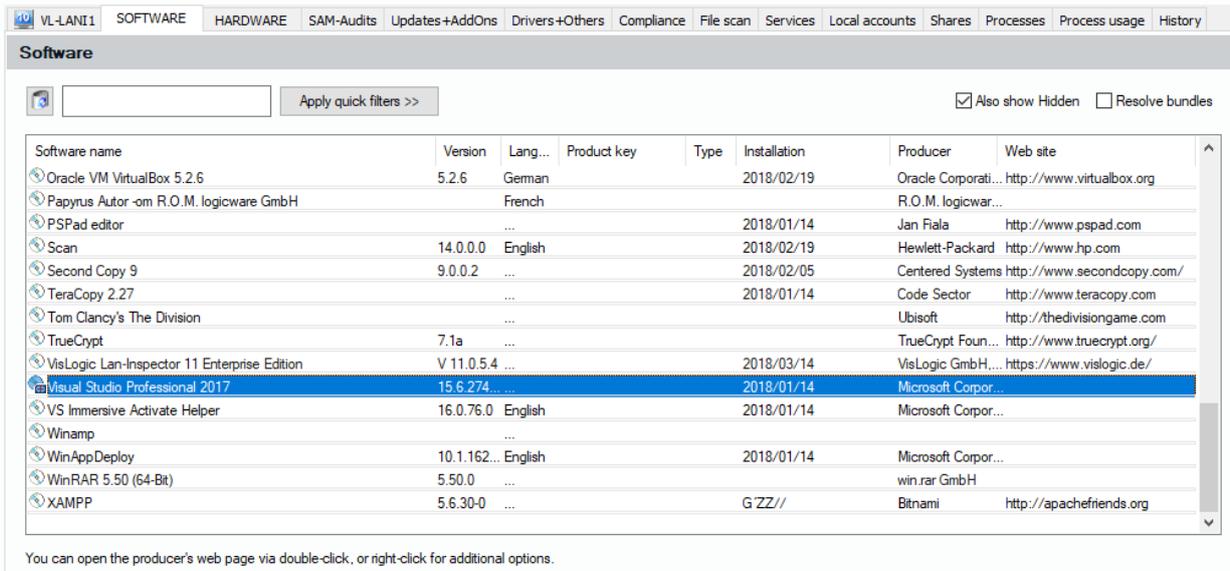
Exclude from scans

Additional information

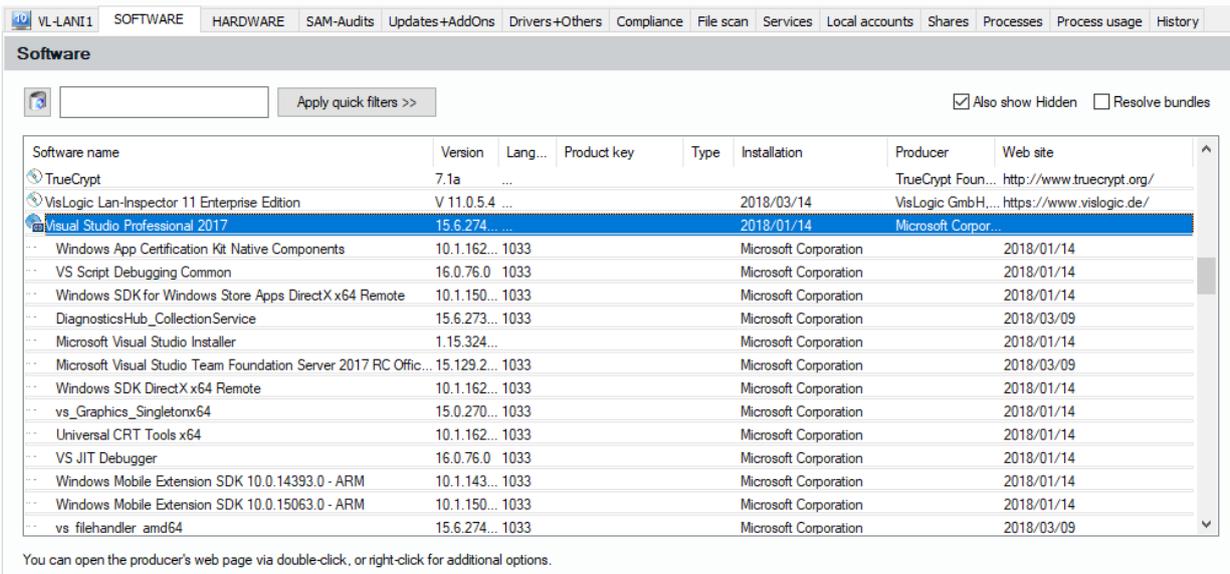
- Generic
 - Intel(R) Core(TM) i9-7980XE Extreme Edition Processor
 - CPU count (phys.): 1
 - Socket: FCLGA2066
 - Cores per CPU: 18
 - Threads per CPU: 36
 - Base Freq.: 2.60 GHz
 - Turbo Freq.: 4.20 GHz
 - Code Name: Skylake
 - Cachegröße: 24.75 MB
 - Instruction Set: Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2, Intel®
 - Temp Junction: 94.0C
 - IP address
 - MAC address

6.3.6.2 Computer Object: Software Tab

This dialog contains a list of all software installations on this computer. The products installed here are sorted to several sub tabs like in “6.3.4 Installed Software in the Network“: Software, SAM-Audits, Updates+AddOns and drivers+Others. The software tabs all have the option of a quick filter. Additionally you will find the options for “Show Hidden also“ and “Resolve Bundles“.

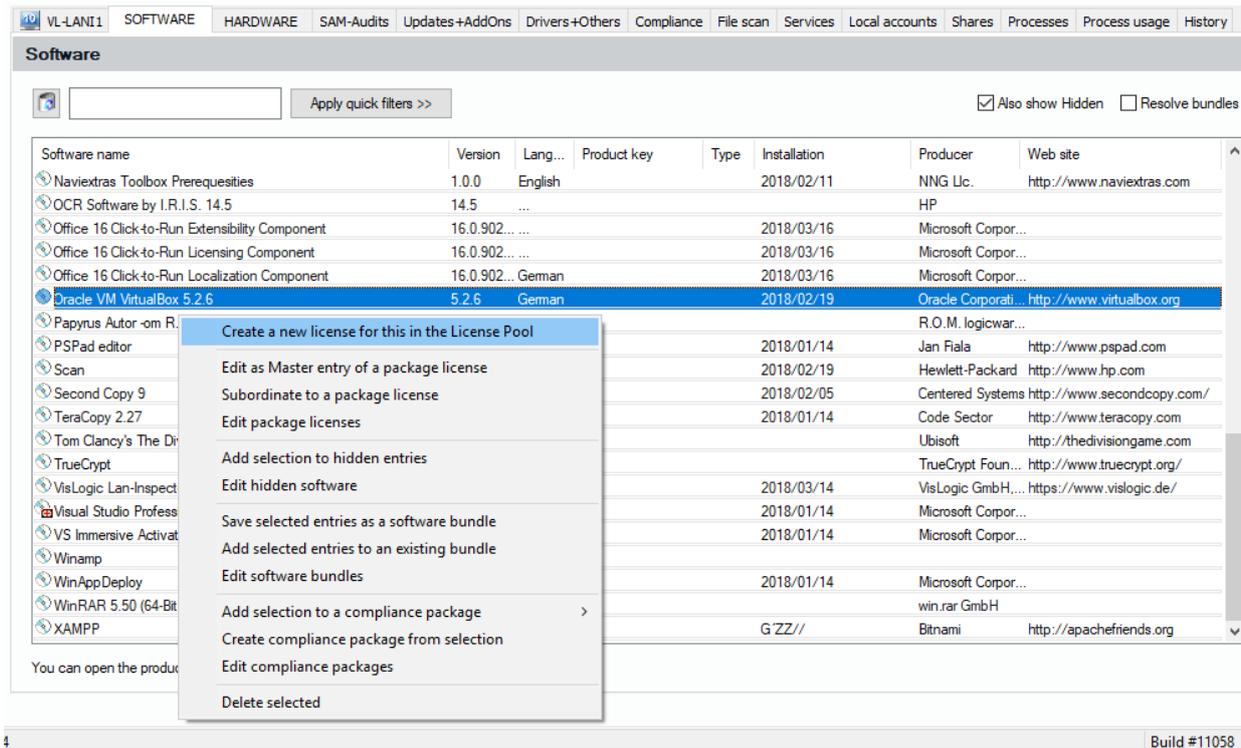


There is no option to for hiding package licenses. This tab hides them automatically and reveals them if you click on the plus-symbol at the beginning of the line:.



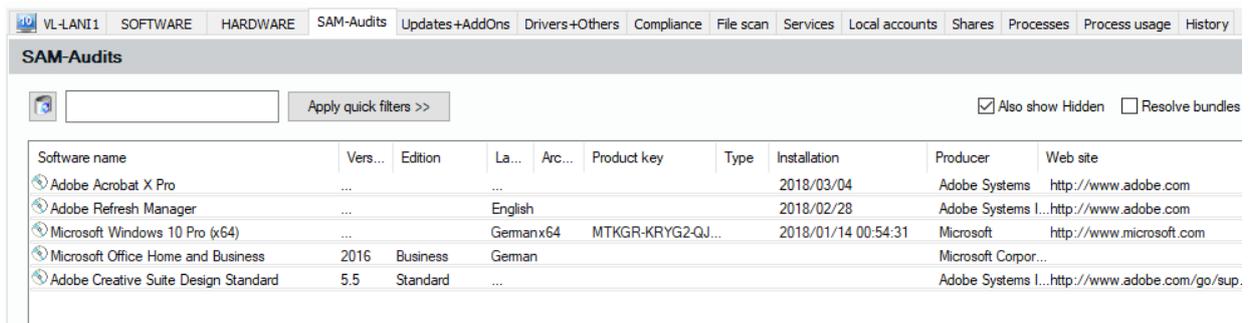
6.3.6.3 Context Menu Software (right click)

The software tab also includes an extensive context menu which you can display using the right mouse button. The menu items lead into editors described in the belonging sections of this manual.



6.3.6.4 Computer Object: SAM-Audit Tab

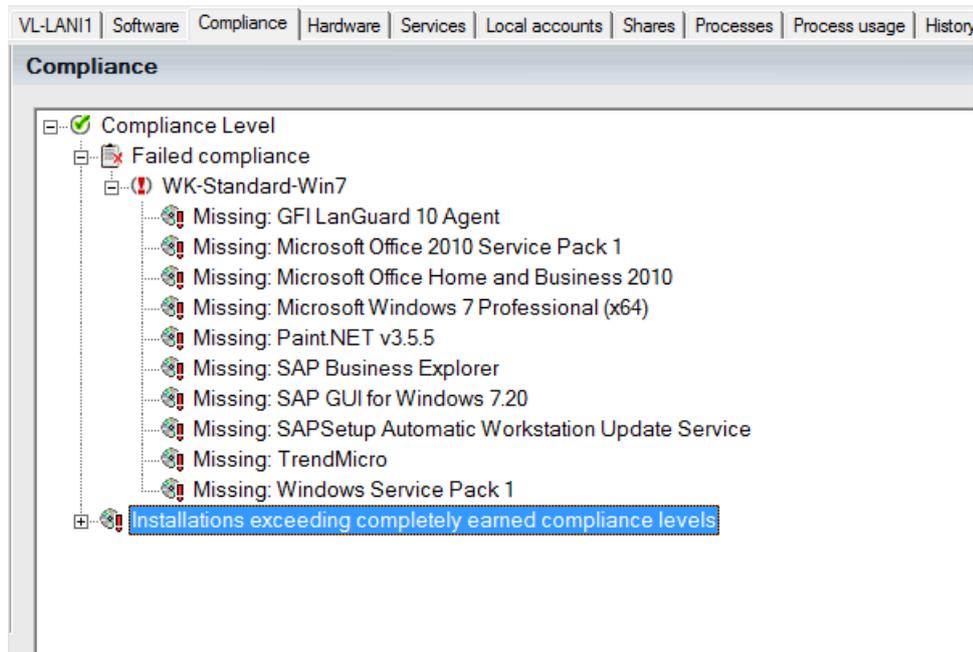
This dialog contains all products that most probably have a relevancy concerning licensing (see 6.3.4.3 SAM-Audits Tab).



6.3.6.5 Computer Object: Compliance Tab

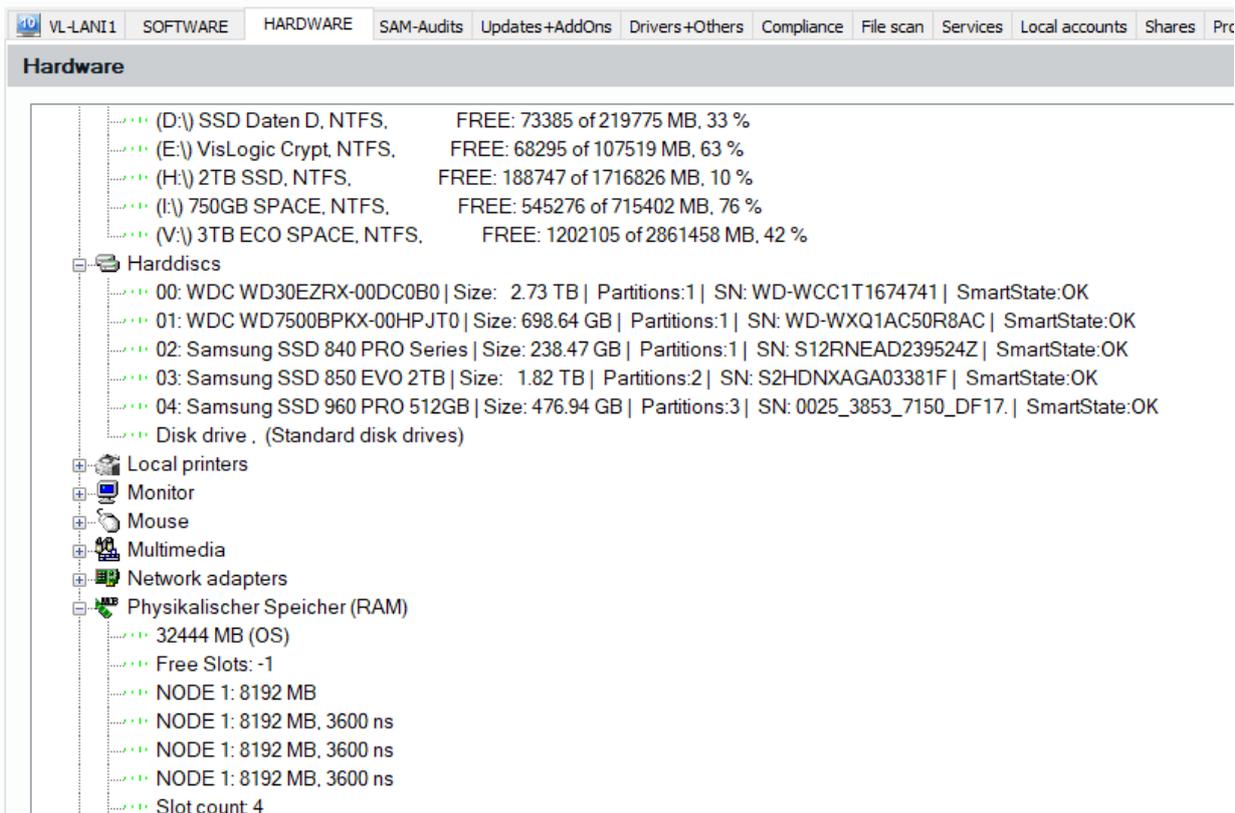
This tab displays the performance of the selected PC concerning user defined compliance levels or call it "standards", see also 6.4.10 Computer Compliance | „Menu: Inventory Management/More/Software-Compliance“. Compliance levels contain a specified set of products that need to be complete on a PC to make it pass the compliance. This tab only appears if

compliance standards are defined in your data base. You will also get information about products missing to achieve a standard and also those that exceed it.



6.3.6.6 Computer Object: Local Hardware

The dialog shows the hardware of the computer like in the computer management snap in of the Windows operating system. However certain missing aspects in the windows snap in are added like serial numbers of harddisks, partition sizes and states, free memory, memory slots, etc. The CPU is also included, but to get extended information about it, go to the overview tab.



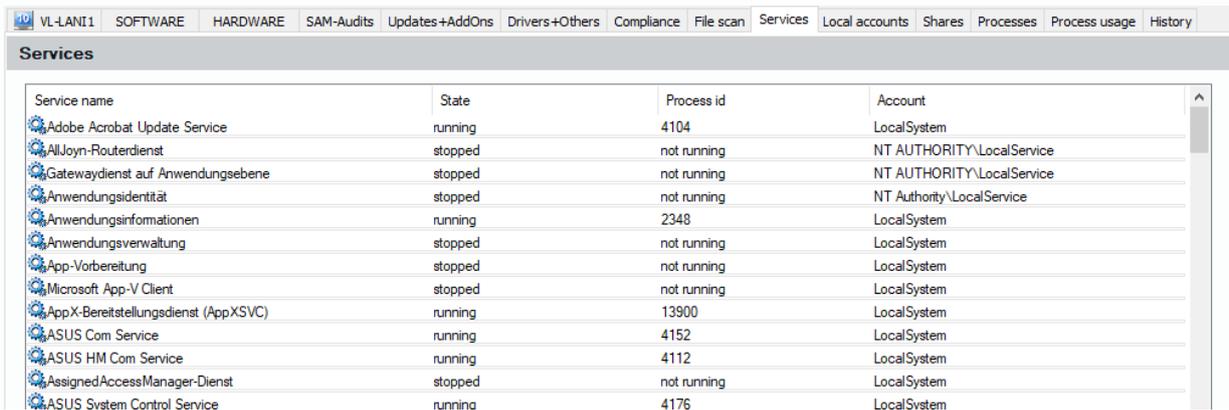
6.3.6.7 Computer Object: File scan Results

This tab appears only if the scan configuration includes an active hard disc file scan, see 6.9.1 Scan Configuration | "Menu: Administration and Settings/Scan Configuration". The tab contains a list of all files that have matched the configured file pattern.

File name	Version	Länge	Lokaler Pfad
adobe media encoder.exe	5.5.0.212	1900032 bytes	C:\program files\adobe\adobe media encoder c...
photoshop.exe	12.1.0.0	47161512 bytes	C:\program files\adobe\adobe photoshop cs5.1 ...
npswf32.dll	10.1.82.73	5969584 bytes	C:\program files\common files\adobe\ape\3.10...
acrobat.exe	10.1.16.13	376720 bytes	C:\program files (x86)\adobe\acrobat 10.0\acro...
acrodist.exe	10.1.16.13	407952 bytes	C:\program files (x86)\adobe\acrobat 10.0\acro...
acrord32.exe	10.1.16.13	1525648 bytes	C:\program files (x86)\adobe\acrobat 10.0\acro...
acrobat elements.exe	10.1.16.13	2575264 bytes	C:\program files (x86)\adobe\acrobat 10.0\acro...
formdesigner.exe	9002.4179.2.0	23023848 bytes	C:\program files (x86)\adobe\acrobat 10.0\desi...
bridge.exe	4.1.0.54	12008296 bytes	C:\program files (x86)\adobe\adobe bridge cs5...
devicecentral.exe	3.5.0.0	4652408 bytes	C:\program files (x86)\adobe\adobe device cent...
npswf32.dll	9.0.124.0	2889088 bytes	C:\program files (x86)\adobe\adobe extension m...
illustrator.exe	15.1.0.39	14980240 bytes	C:\program files (x86)\adobe\adobe illustrator cs...
indesign.exe	7.5.0.142	3775840 bytes	C:\program files (x86)\adobe\adobe indesign cs...
adobe media encoder.exe	5.5.0.212	1602560 bytes	C:\program files (x86)\adobe\adobe media enco...
photoshop.exe	12.1.0.0	35590824 bytes	C:\program files (x86)\adobe\adobe photoshop ...
npswf32.dll	10.1.82.73	5969584 bytes	C:\program files (x86)\common files\adobe\ape\...
npswf32.dll	10.1.51.87	5541344 bytes	C:\program files (x86)\common files\adobe\oob...

6.3.6.8 Computer Object: Local Services

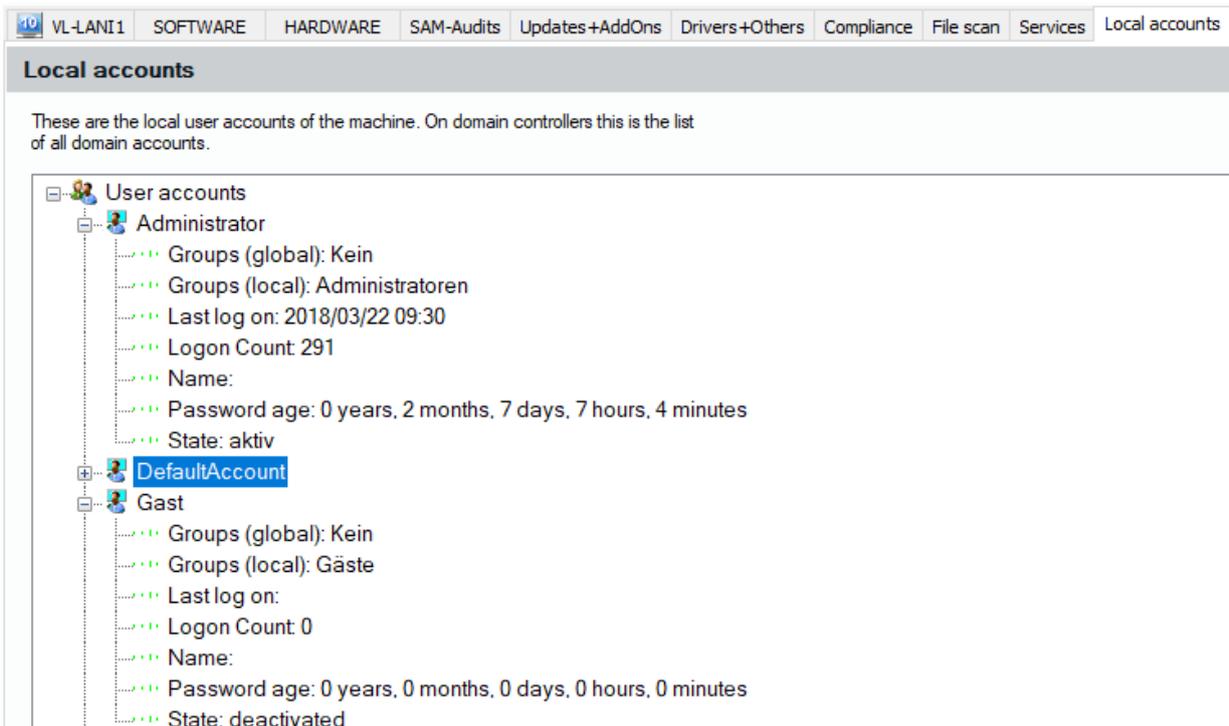
This dialog shows a snapshot of the local services of the selected PC. Please note that it is only a snap shot of the moment when the PC was scanned. Keep in mind that the language of the operating system dumps the service names. The screenshot was taken on a PC running a German Windows 10 Pro.



Service name	State	Process id	Account
Adobe Acrobat Update Service	running	4104	LocalSystem
AllJoyn-Routerdienst	stopped	not running	NT AUTHORITY\LocalService
Gatewaydienst auf Anwendungsebene	stopped	not running	NT AUTHORITY\LocalService
Anwendungsidentität	stopped	not running	NT Authority\LocalService
Anwendungsinformationen	running	2348	LocalSystem
Anwendungsverwaltung	stopped	not running	LocalSystem
App-Vorbereitung	stopped	not running	LocalSystem
Microsoft App-V Client	stopped	not running	LocalSystem
AppX-Bereitstellungsdienst (AppXSVC)	running	13900	LocalSystem
ASUS Com Service	running	4152	LocalSystem
ASUS HM Com Service	running	4112	LocalSystem
AssignedAccessManager-Dienst	stopped	not running	LocalSystem
ASUS System Control Service	running	4176	LocalSystem

6.3.6.9 Computer Object: Local Accounts

Even though a computer is a member of the domain, usually users can login as local admin. This dialog shows information about the local user accounts. Please note that the VL-LANI1 installation resides on a German operating system.

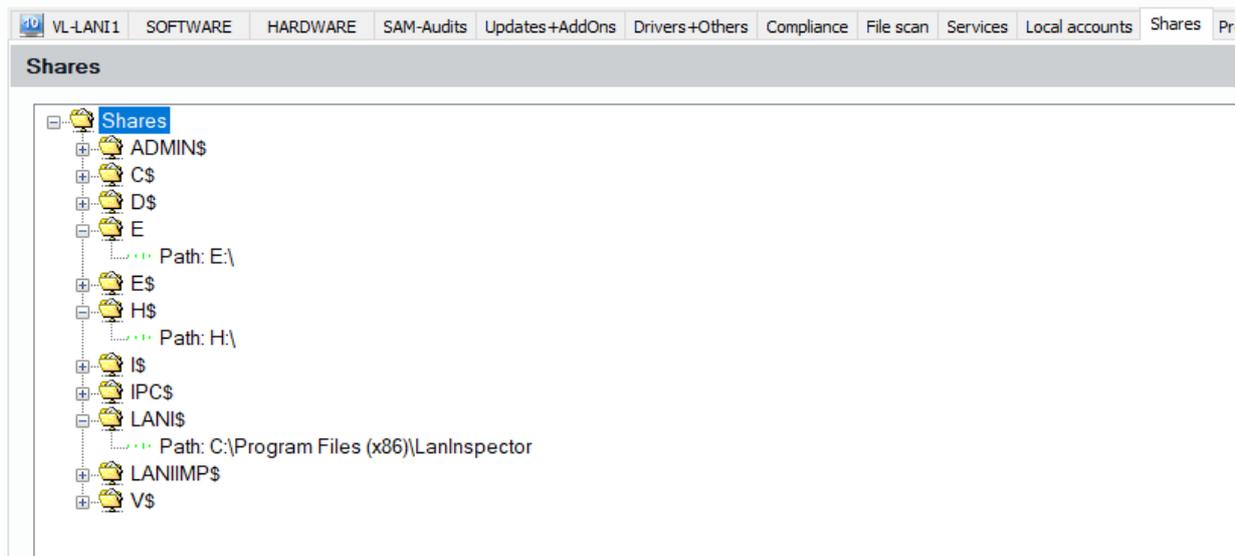


These are the local user accounts of the machine. On domain controllers this is the list of all domain accounts.

- User accounts**
 - Administrator**
 - Groups (global): Kein
 - Groups (local): Administratoren
 - Last log on: 2018/03/22 09:30
 - Logon Count 291
 - Name:
 - Password age: 0 years, 2 months, 7 days, 7 hours, 4 minutes
 - State: aktiv
 - DefaultAccount**
 - Gast**
 - Groups (global): Kein
 - Groups (local): Gäste
 - Last log on:
 - Logon Count 0
 - Name:
 - Password age: 0 years, 0 months, 0 days, 0 hours, 0 minutes
 - State: deactivated

6.3.6.10 Computer Object: Local Shares

Even though, users access shares on file servers in a domain, it happens that you need to learn about local shares of specified PCs. If you click on a computer object and select the tab “Local Shares“, you’ll see all about existing shares on that system.



6.3.6.11 Computer Object: Processes

This dialog displays a snapshot of the processes in the moment of the last scan.

Process name	User	Process id	Memory
lsass.exe	SYSTEM@NT-AUTORITÄT	1112	10360 K
svchost.exe	SYSTEM@NT-AUTORITÄT	1232	932 K
svchost.exe	SYSTEM@NT-AUTORITÄT	1256	12244 K
fontdrvhost.exe	UMFD-0@Font Driver Host	1264	10624 K
svchost.exe	Netzwerkdienst@NT-AUTORITÄT	1344	8576 K
svchost.exe	SYSTEM@NT-AUTORITÄT	1388	3508 K
svchost.exe	Netzwerkdienst@NT-AUTORITÄT	1696	4080 K
svchost.exe	Lokaler Dienst@NT-AUTORITÄT	1856	15116 K
svchost.exe	SYSTEM@NT-AUTORITÄT	1864	2144 K
svchost.exe	Lokaler Dienst@NT-AUTORITÄT	1872	1884 K
svchost.exe	SYSTEM@NT-AUTORITÄT	1880	6572 K
svchost.exe	SYSTEM@NT-AUTORITÄT	2004	1776 K
svchost.exe	Lokaler Dienst@NT-AUTORITÄT	2028	5944 K
svchost.exe	Lokaler Dienst@NT-AUTORITÄT	2036	2752 K
svchost.exe	SYSTEM@NT-AUTORITÄT	1464	2588 K
svchost.exe	Lokaler Dienst@NT-AUTORITÄT	2056	2776 K

6.3.6.12 Computer Object: Process Usage / Executables

If you have enabled the EXE-protocol in your scan configuration, see 6.4.12 EXE Client Logging | **Menu: Inventory Management/More/Exe Protocol**, this tab dialog lists all Executables a user has started on the local client PC or server. This is a feature not all Editions offer. If you like, you can comfortably generate an entry in the software suppression catalogue, using the context menu, see section below.

If the EXE-log is active, this tab provides information about process usage of EXE files. With a right click you can directly use EXE files to generate a software suppression record. Launched EXE files will be monitored. You can also add files like DLLs manually. Additionally, you can use a right click to pick an entry for the software start suppression.

Clear EXE logfile Settings

File name (automatic)	Version	First launch	Last launch	Calls	MD5
nvcontainer.exe	1.9.2305.6...	23. Mar., 20...	27. Mar., 2018...	41	83AB4F43219126138818DC273D596B7E
sihost.exe	6.2.16299...	23. Mar., 20...	27. Mar., 2018...	13	0C9644276843D331A61A0900C1C13280
svchost.exe	6.2.16299...	23. Mar., 20...	27. Mar., 2018...	30	440684C4F823AAE2CC587363F9C477A6
taskhostw.exe	6.2.16299...	23. Mar., 20...	27. Mar., 2018...	70	C30DB833AB9978883FD950B0636E2373
asrogauragpudllserver.exe	6.2.16299...	23. Mar., 20...	27. Mar., 2018...	12	C03A2B63BC6BB3B60D32AE5005A4DF7E
aisuite3.exe	1.0.0.0	23. Mar., 20...	27. Mar., 2018...	11	19A04B16F350644157A3EACDE025FB63
dipawaymode.exe	1.0.0.0	23. Mar., 20...	27. Mar., 2018...	11	4763570A4C7B173FE793F07F5DCF2EA4
ezupdt.exe	1.0.0.0	23. Mar., 20...	27. Mar., 2018...	13	3267AC5296DC0E9240ADCFFED79F4103
explorer.exe	6.2.16299...	23. Mar., 20...	28. Mar., 2018...	49	A77D56422C38C1F8A00D95D2D5B1675E

6.3.6.13 Generate an Exe-Entry in Software Suppression

Use the right mouse button on an entry in the list of Exe files in the Process Usage tab to call up a context menu. You can use the collected data about the chosen executable file to generate an entry in the software start suppression (Software Blacklist/Whitelist).

VL-LANI1 SOFTWARE HARDWARE SAM-Audits Updates+AddOns Drivers+Others Compliance File scan Ser

Processes Process usage History

Process usage

If the EXE-log is active, this tab provides information about process usage of EXE files. With a right click you can directly use EXE file suppression record. Launched EXE files will be monitored. You can also add files like DLLs manually. Additionally, you can use a right software start suppression.

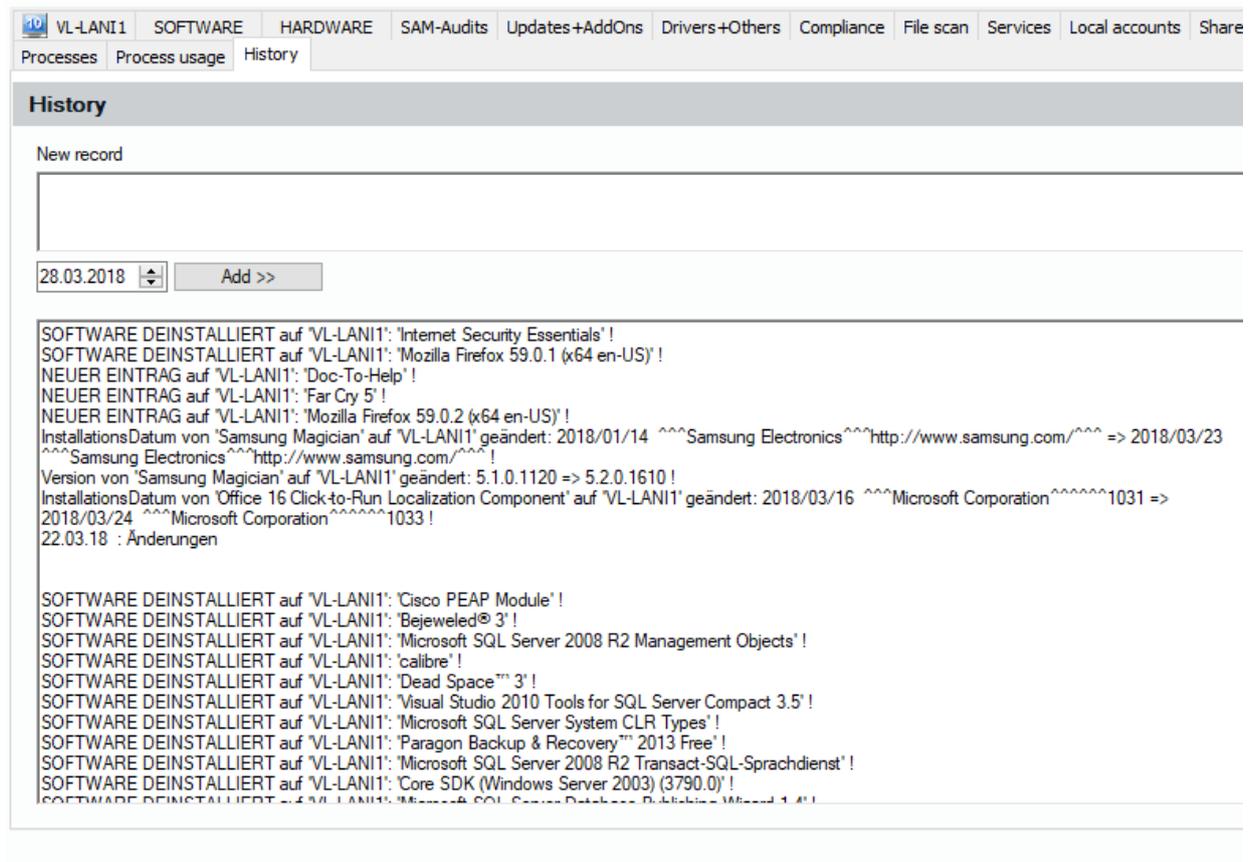
Clear EXE logfile Settings

File name (automatic)	Version	First launch	Last launch	Calls	MD5
taskhostw.exe	6.2.16299...	23. Mar., 20...	27. Mar., 2018...	70	C30DB833AB9978883FD950B0636E23
asrogauragpu.dllserver.exe	6.2.16299...	23. Mar., 20...	27. Mar., 2018...	12	C03A2B63BC6BB3B60D32AE5005A4D
aisuite3.exe	1.0.0.0	23. Mar., 20...	27. Mar., 2018...	11	19A04B16F350644157A3EACDE025FE
dipawaymode.exe	1.0.0.0	23. Mar., 20...	27. Mar., 2018...	11	4763570A4C7B173FE793F07F5DCF2E
ezupdt.exe	1.0.0.0	23. Mar., 20...	27. Mar., 2018...	13	3267AC5296DC0E9240ADCFED79F4
explorer.exe	6.2.16299...	23. Mar., 20...	28. Mar., 2018...	49	A77D56422C38C1F8A00D95D2D5B16
core temp64.exe	0.99.7.7	23. Mar., 20...	27. Mar., 2018...	10	FDC03067AF41D4960C43F35CEFF3D1
shellexperienc					51FB3A48E82ECF1603D2A555B7DAI
searchui.exe					6565DC4063360175DC69A0C0C6E0F

Copy EXE data to software start prevention dialog

6.3.6.14 Computer Object: History

The history of an object saves information about events. As you can see in the picture, the Lan-Inspector can log changes in the software or hardware configuration.



6.3.6.15 Computer Objects: Properties / Manual Software

If needed, you can add software products manually to a record set. These entries won't change during scans. Select the PC you want to edit, open up the context menu with the right mouse button und select **"Properties"**. In the bottom area of the window you can click on "Add" to create a new line in the list field. You can now click on this new line for a second - as if you wanted to rename a file in the windows explorer. This way you can change the text of the line.

If needed, you can use "Manual Software" to insert a product several times using the same product name. In a license balance, this method would consume the corresponding number of licenses from your license pool.

? X

Computer name (Netbios)

Computer name (DNS)

Active IP address

Operating system

 DO NOT scan this computer

Manual software

You can add software products manually with a specific count. This installation count will be subtracted completely. The products in the upper list are subtracted always only once. Manual software is resident to scan tasks.

Manual software entries	Amount for reconciliation
Test Entry for Manual Software	1

Click on a line to change it

6.3.1 Object Detail View for Inventory Objects

The previous sections described all data sheets that belong to computer objects, i.e. devices that run a Windows operating system and that can be scanned to collect their inventory data.

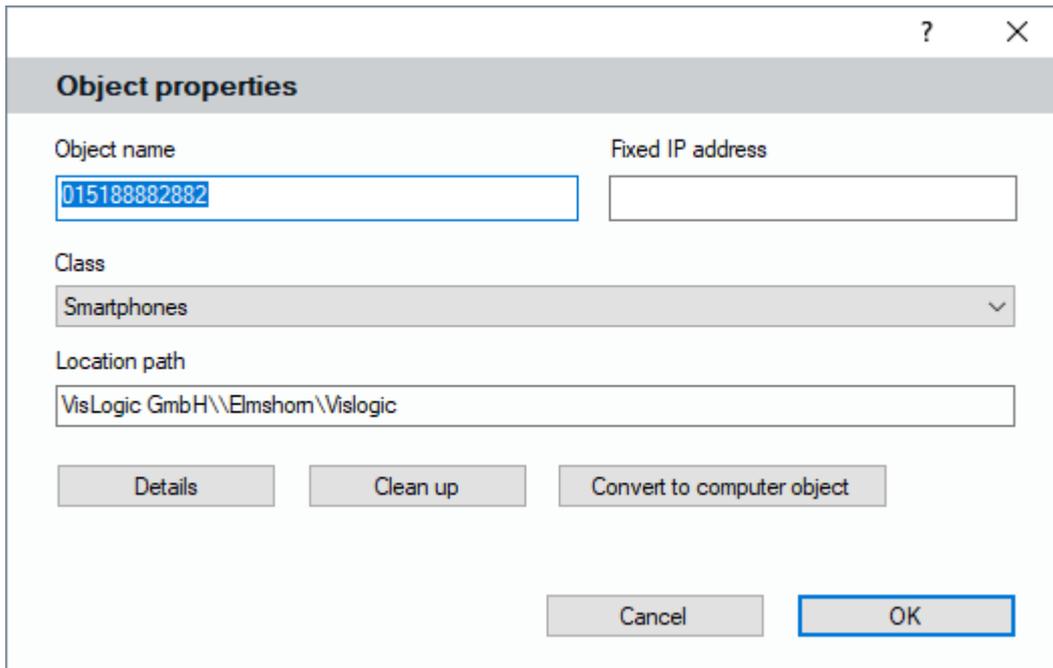
If you select an object that has been derived from a user defined inventory class (such as smartphones, racks, air condition etc.), the system uses other data dialogs that are limited to the smaller sets of information. Inventory objects also have a record with 20 info fields and additional data, but they cannot be scanned and they therefore don't contain information about software or hardware.

The screenshot displays the 'Object Detail View' in Lan-Inspector 11 Enterprise. The interface is divided into several sections:

- Navigation and Search:** At the top, there are navigation arrows and the title 'Object Detail View'. Below this, there is a search bar with 'Search' and 'Advanced search' buttons.
- Network Tree:** On the left, a tree view shows the network structure. The selected object is '015188882882', which is a smartphone object located under the path: Global > Home:VisLogic GmbH > Elmshorn > AD_CN_Computers > VL-LANI1-W7 > VL-Z-MOBIL > 015188882882.
- Action Buttons:** Above the right-hand pane, there are buttons for 'Scan', 'Delete', 'Inventory details', 'Popup', and 'Send email'.
- Object Properties:** The right-hand pane shows the 'Main data' for the selected object:
 - Name: **015188882882**
 - Inventory class: **Smartphones**
 - Path: **VisLogic GmbH \ Elmshorn \ Vislogic**
- Description:** Below the main data, there is a section titled 'Beschreibung der Inventarklasse' (Description of the inventory class), which is currently empty.

6.3.1.1 Inventory Objects: Properties

Inventory objects don't have many properties. You can edit the name of the object, an optional IP-Address which doesn't have any effect, actually. Furthermore, an inventory objects is defined by its inventory class (for example the class "Handys"). The dialog also offers an option to upgrade the object to a real scannable computer object. Please note that if you convert it, you consume one scan license for it in your Lan-Inspector data base.



The “Details“ button shows the dialog with the additional data fields that every object has. “Clean up” deletes any software or hardware information the object still may contain. If you have a fully scanned computer object with software and hardware information, you have the option to degrade it into an inventory object. This way, it may still contain software information.

6.3.2 Concert Objects: Computer Objects / Inventory Objects

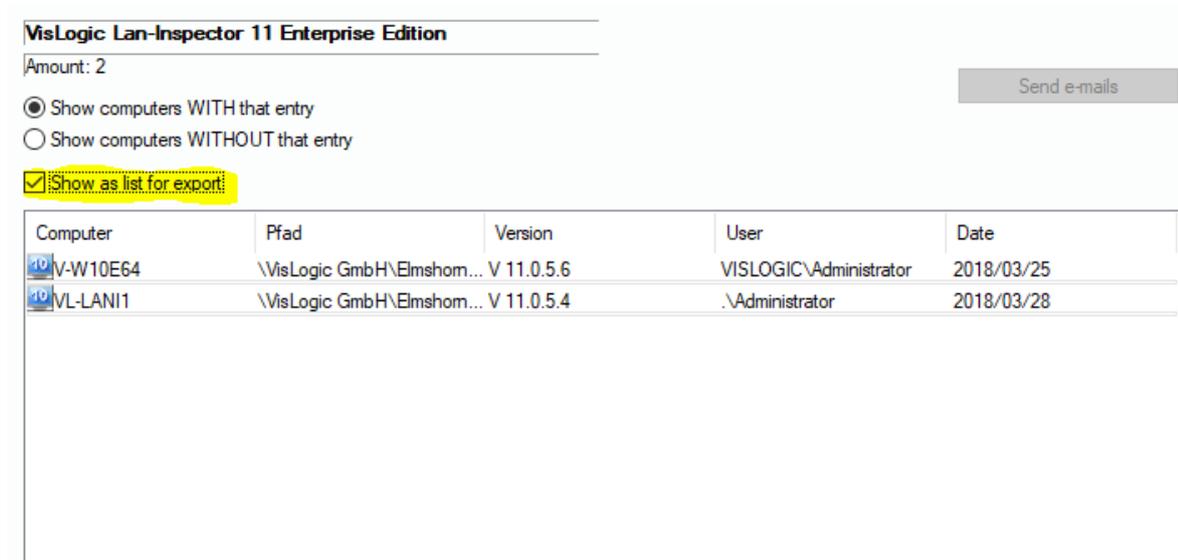
You can at any time change the type of object. If you have a fully scannable computer object, you can convert it to an inventory object. You only need to visit the properties dialog (via context menu). In both dialogs, of computer objects and of inventory objects, you’ll find a “convert“-button.

Please note that computer objects consume a scan license, because they can potentially be scanned while inventory objects cannot be scanned and therefore don’t consume a license.

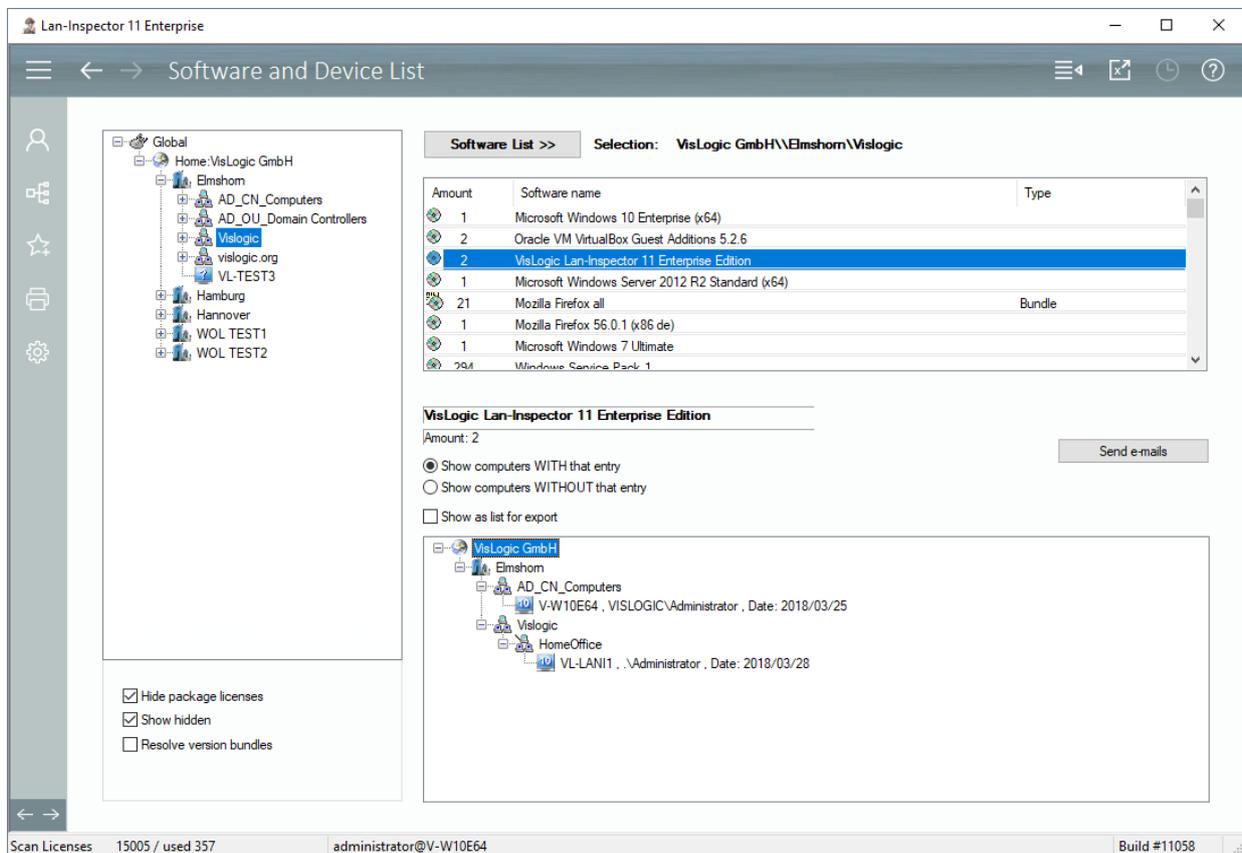
6.3.3 Software and Device List

This view enables you to quickly get a list of PCs that contain a specified software product. Select a branch in the location tree and click on „Software List >>“ in order to create the corresponding list of software. After the system has calculated the list, you can double-click a software entry you are

interested in. Before you double-click, you can choose between a list of computers that contain the software or those that do not contain it. If you need a quick list in excel, you can activate the “Show as list” option and click on the excel icon in the top bar.



If you have selected the tree view, you also have the possibility to send batch e-Mails to the users of the PCs, see also ADS-Batch-E-Mailer (6.3.3.1).

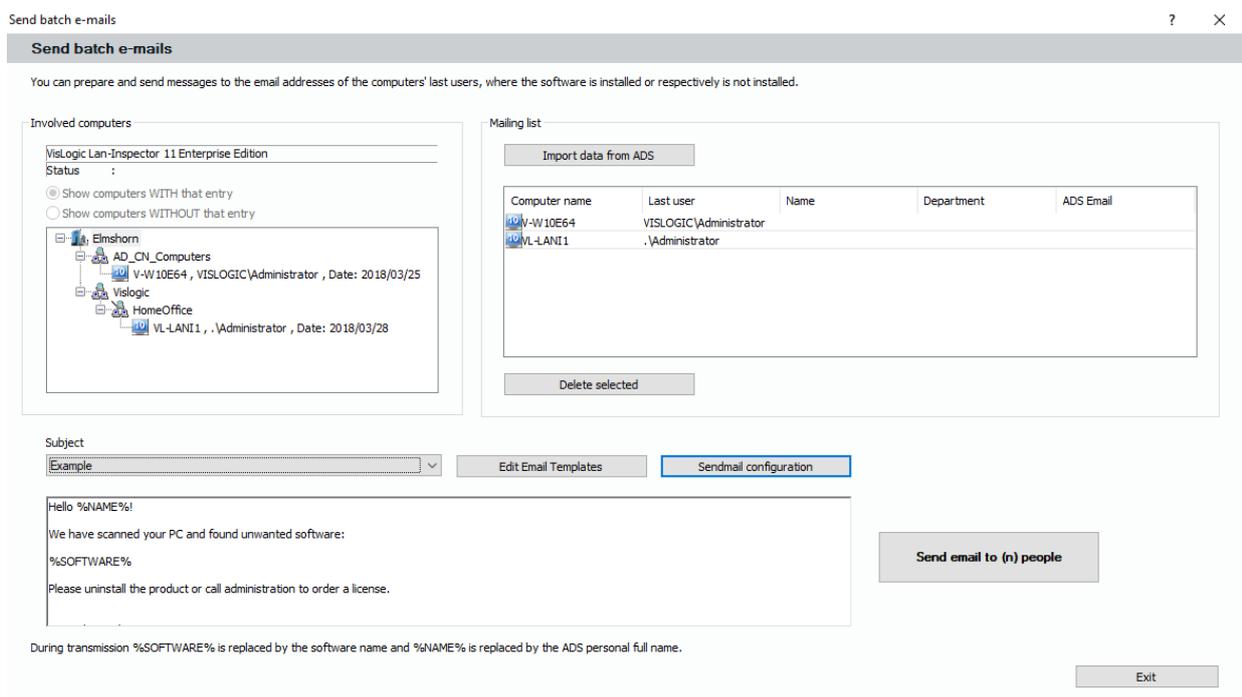


6.3.3.1 ADS-Batch E-Mailer

If you want to send e-mails to the last users of PCs in your list, you can use this function. After you created a list of PCs in “Software and Device List” and chose the tree result, you can select a branch in the result and click on “Send E-Mails”.

The following dialog is a variation to the one in “Object Detail View”, see 6.3.5.4 Button Send E-Mail. On the left side you see the result tree from “Software and Device List”. The list to the right contains the entries of “last user” from each PC of the result. If you have ADS Access, you can now retrieve the E-Mail information from these accounts by clicking on the button to the right.

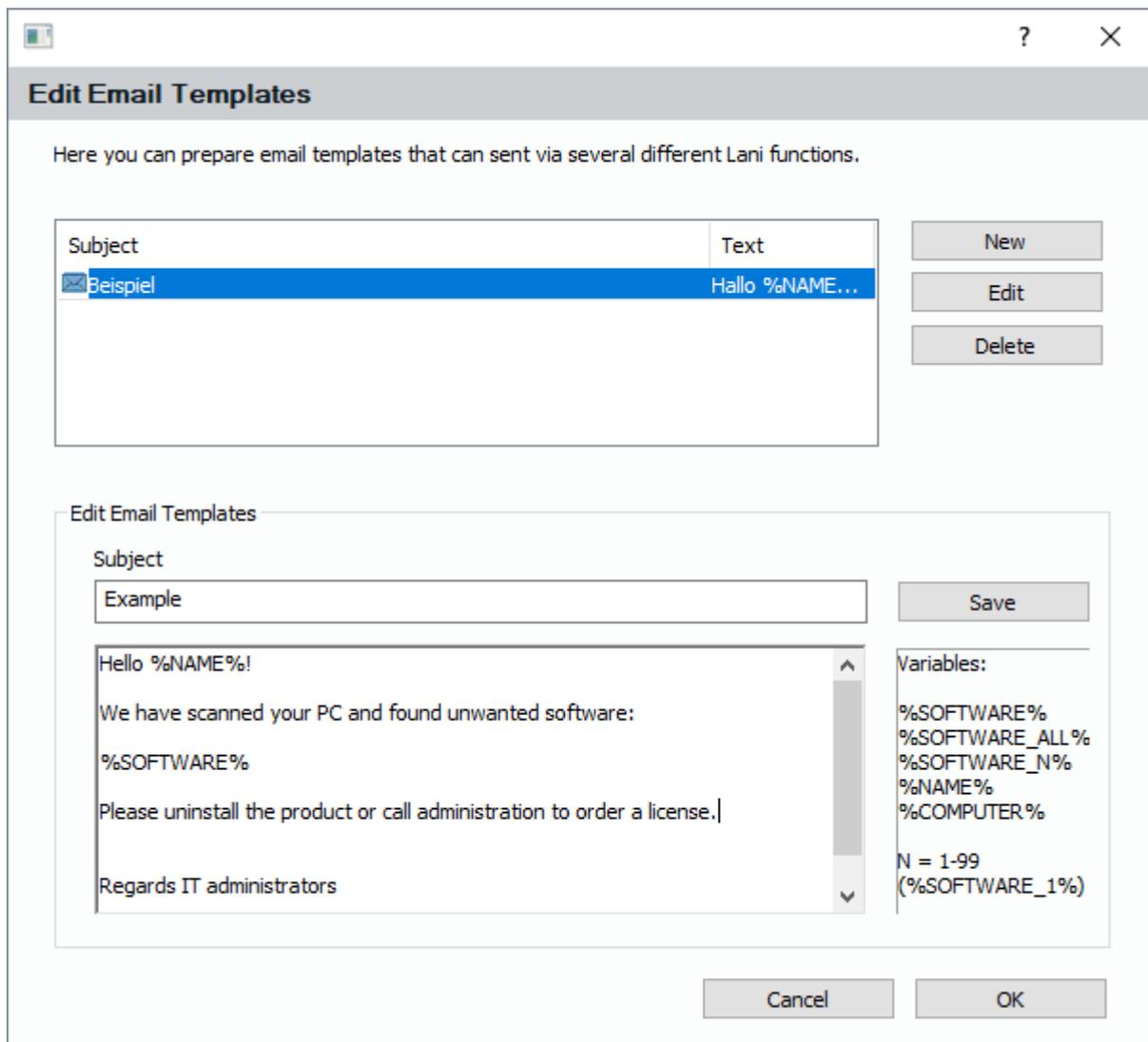
In the text field at the bottom, you can again choose mail templates you want to send to each user of the list. You can also use the variables described in 6.3.5.5 Variables of the E-Mail Function in the template text.



6.3.3.2 Edit E-Mail Templates

You can deposit as many templates as you like using this dialog. You can either reach the dialog from within the e-mail function of “Object Details” or by clicking “Send E-Mails” in the “Software and Device List” – view.

If you use the batch e-mail function from within the “Software and Device List” – view, the resulting PCs have all one specified software product in common. That is the reason why in the templates of this batch emailer, there is only one variable %SOFTWARE% that contains the specified software product. If you use the templates to send an E-Mail from within “Object Details”, the variables %SOFTWARE_1% , ”%SOFTWARE_2% and so on, are filled with the products you have selected. In the E-Mail function of “Object Details”, you can select multiple software entries, while in “Software and Device List” only one software product is used.

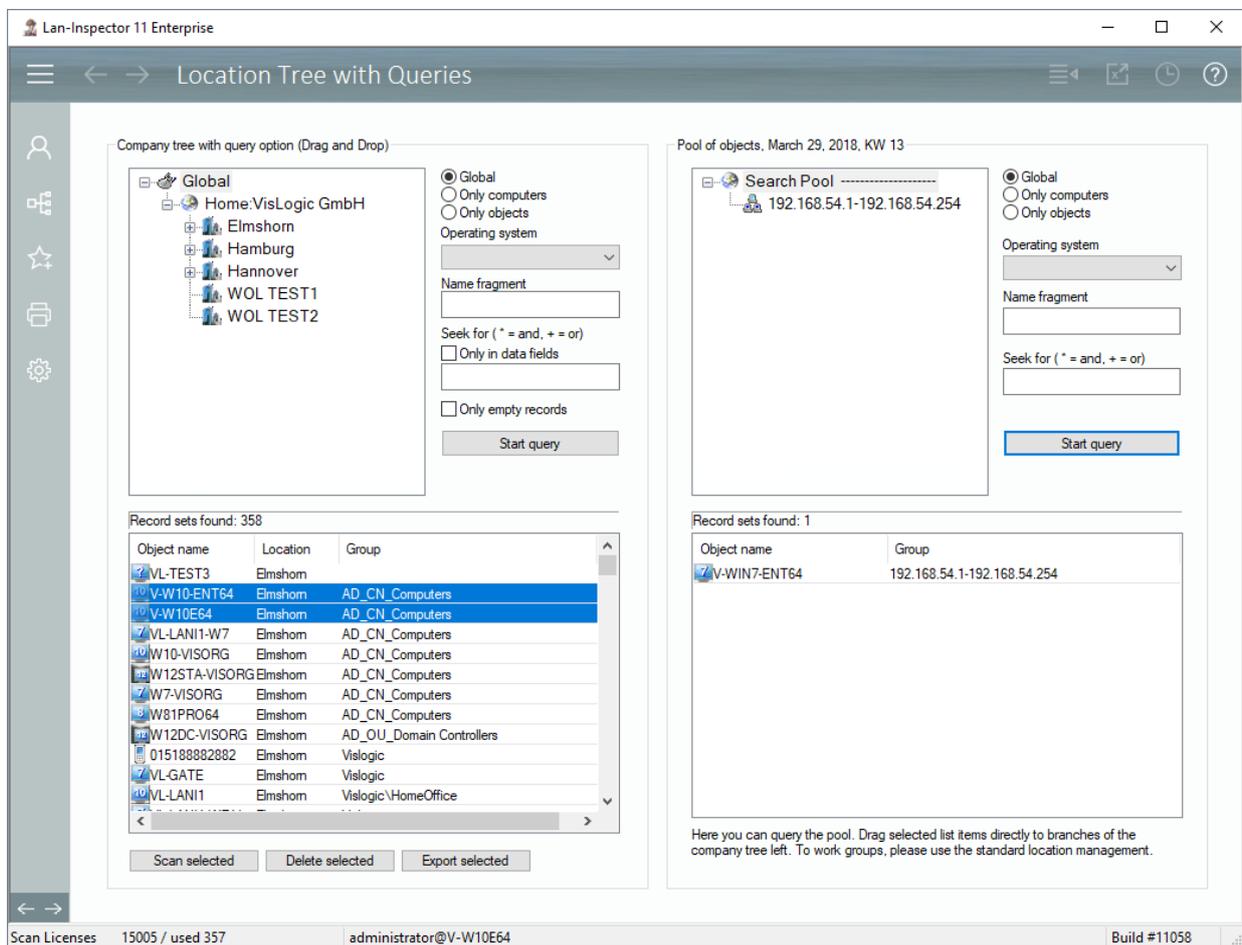


6.3.4 Location Tree with Queries (only Enterprise)

(Enterprise Edition only) This dialog is about large, heterogeneous networks. To assign the machines to the location tree in a meaningful manner, you need the support of queries. For instance, you can search for IPs or name fragments or perform a full text search for content within

the computer data sets. If you import computers from third party systems for example, where departments have already been associated with data fields, you can perform queries on the existing departments here and will get a selection list of all corresponding machines. You can then move those easily to the target group. Query capabilities are also available in the computer pool. Within large networks with many IP ranges, where computers are associated sporadically; this can be very helpful for moving all the computers to the location tree.

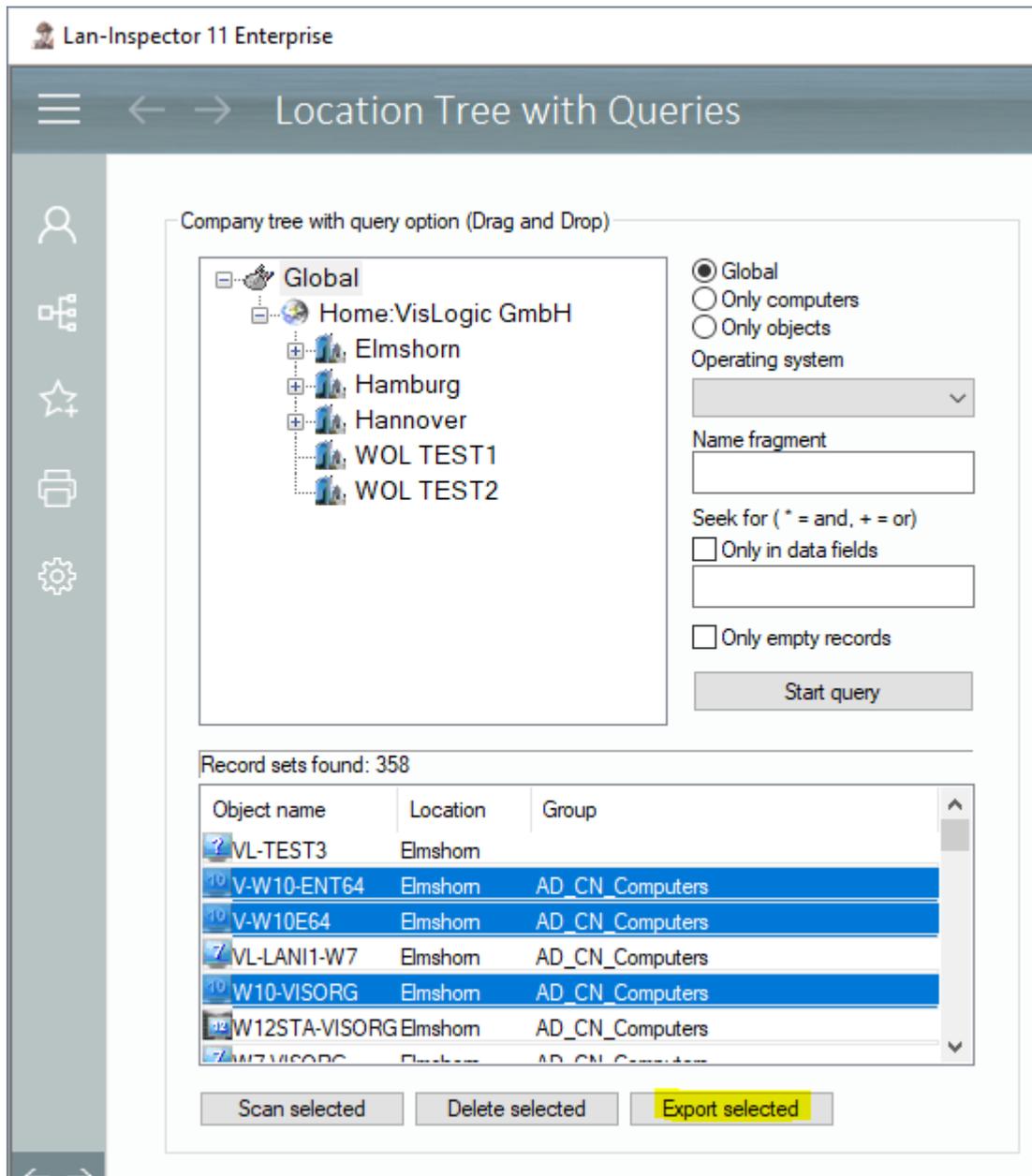
You can also use Drag'n'Drop operations to move arbitrarily selected computers from lists to branches of the location tree.



The full text search of the query allows you to use “ * ” as and-operation and “ + ” as or-operation. In queries of other views, the logical “AND” operation will always be “/and/” and “OR” will be “/or/”. “Only in data fields” allows searching the data fields of the computer data set. If you have queried a list of computers, the functions scan, delete, and csv-export of the list will be available. You can also double click a computer to switch to object detail view.

6.3.4.1 CSV-Export: Location Tree with Queries

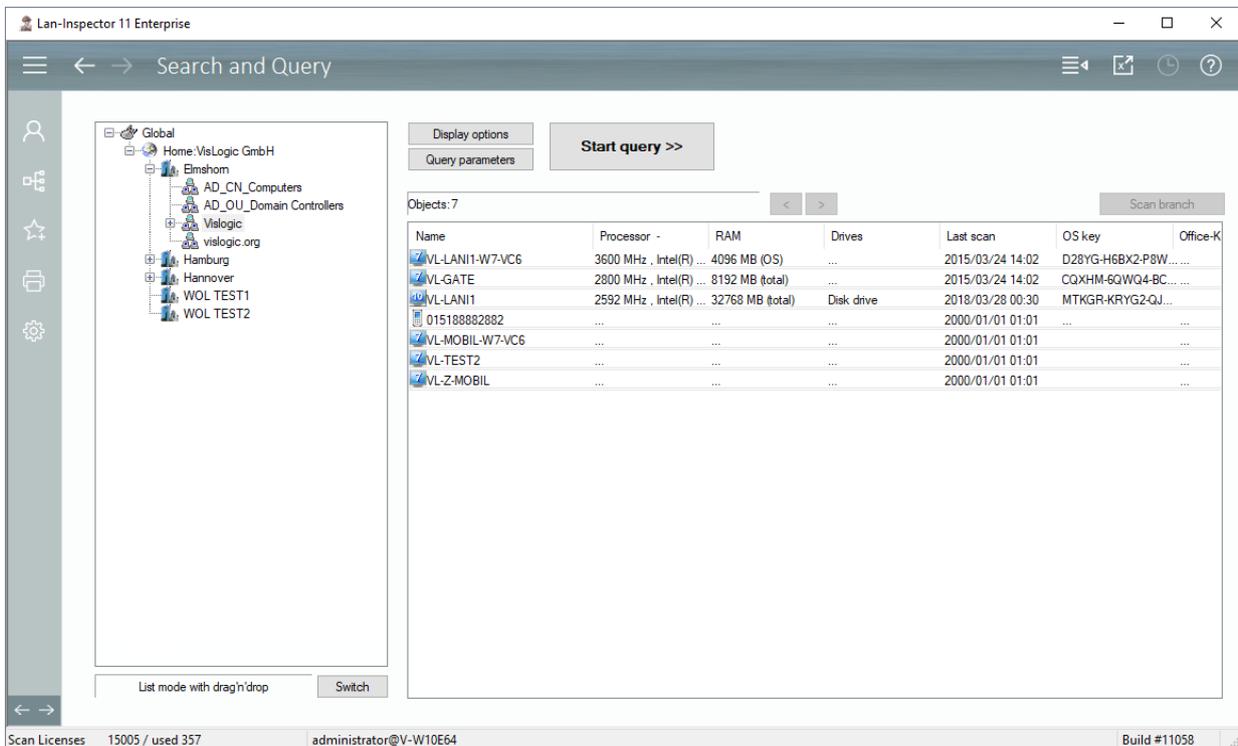
If you have queried a list of computers, you can use the buttons at the bottom to scan, delete or export them. Of course, you can also drag them to branches of the location tree if you want.



6.3.5 Search And Query

In this data view you can execute multiple queries on the inventory data base. Use the location tree on the left side to set the scope of your query. All objects of the chosen branch will be included in

the query. Below the tree there is a button “Switch“ that enables you to choose between a sheer list with your result or a tree containing additional information. If you choose tree, you have the additional information, but if you choose list, you can use the Excel-view button in the top bar or create a report template.



After you have queried a list of objects, you can either click on “Scan” to scan all selected PCs again, or you also can drag your selection to another branch of the location tree.

To specify the columns or the content of the resulting tree, you can click on “Display Options”. In order to set the parameters of the query, click on “Query parameters”.

6.3.5.1 Query Parameters, Full Text Search, Content Search

The dialog you see in the picture shows controls that enable you to specify the search parameters. You can choose in between a comfortable full text search, combinable standard queries and create simple dump lists of inventory objects.

? X

Set query parameters

Scope

VisLogic GmbH\Elmshorn\Vislogic

Please select the group scope in the main query window.

Full text search for

test/and//not/C++

Search EVERYWHERE ---

The full text search offers logical operators: /and/ /or/ /not/
 f.e.: Photoshop/and/Illustrator/or/Paintshop/and//not/Corel
 dumps all devices with Photoshop and Illustrator OR Paintshop but NOT Coreldraw

You can leave the full text search field empty and combine standard queries. You can also combine them both.

no query	^		
no query	^		
no query	^		

Object lists

Dump all objects in this search context

Close
Start query >>

6.3.5.2 Full Text Search

Using the full text search, you can search all data areas within the inventory data base. You can search for software, hardware, services, exe-files, users, shares – well, everything, even compliance levels (see 6.4.10 Computer Compliance). After the results have been displayed in a list, you can multi-select objects and drag them into other groups. You also can scan selected PCs of the result.

There are logical operators available in the text search:

/and/ /or/ /not/

You can combine those in the search field. If you search for computers for instance that have failed a compliance level but have Photoshop installed, it would look like this:

Photoshop/**and//not**/Compliance-Name

This results in a PC list with computers that have an installation of Photoshop AND NOT achieved the “compliance name” level.

6.3.5.3 Combined Standard Queries

If you choose the standard queries you can combine three predefined search patterns. For example you can select „Server 2012“ from the drop-down list in the first row. If you need to add „2048 MB RAM and more“, you select RAM from the drop-down list, select “>” in the middle field and enter 2048 in the right field. Depending on your choice in the drop-down list, the operators are set automatically.

Set query parameters

Scope

Home:\VisLogic GmbH\Elmshom\Vislogic

Please select the group scope in the main query window.

Full text search for

test/and//not/C++

Search EVERYWHERE ---

The full text search offers logical operators: /and/ /or/ /not/

f.e.: Photoshop/and/Illustrator/or/Paintshop/and//not/Corel
 dumps all devices with Photoshop and Illustrator OR Paintshop but NOT Coreldraw

You can leave the full text search field empty and combine standard queries. You can also combine them both.

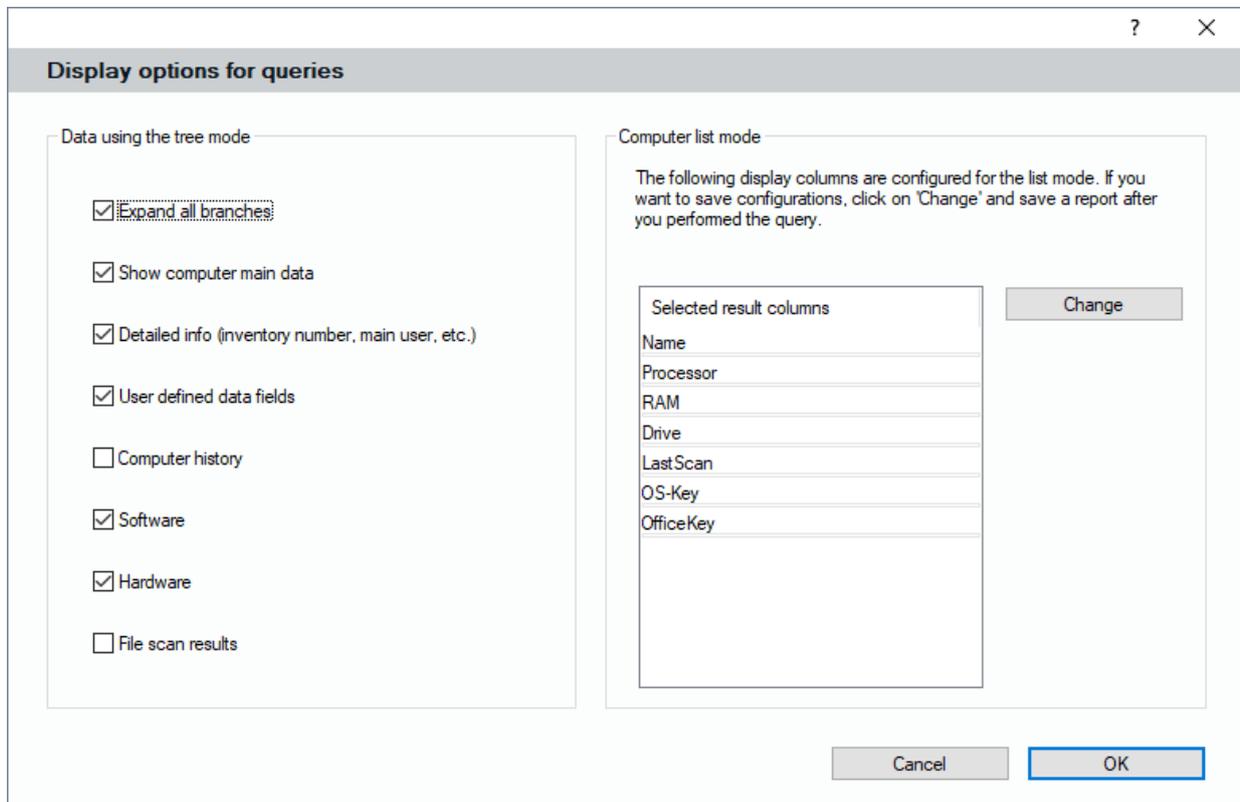
no query	▼	▼	
no query		▼	
Empty record		▼	
Failed scan count		▼	
Last scan (date)		▼	
System: Windows95			
System: WindowsNT			
System: Windows98			
System: Windows2000			
System: WindowsME			
System: WindowsXP			
System: Server 2003			
System: Windows Vista			
System: Server 2008			
System: Windows 7			
System: Windows 8			
System: Windows 8.1			
System: Server 2011			
System: Server 2012			
Intel(R) CPU			
AMD(R) CPU			
CPU speed			
Dual CPU			
Quad CPU			
Available Memory (MB) OS-RAM			
Physical Memory (MB)			

Close

Start query >>

6.3.5.4 Button Display Options

The results of your query can either be displayed as a tree or as a list. If you need to specify the content of the tree, or define what columns you need, you can click on “Display Options”.

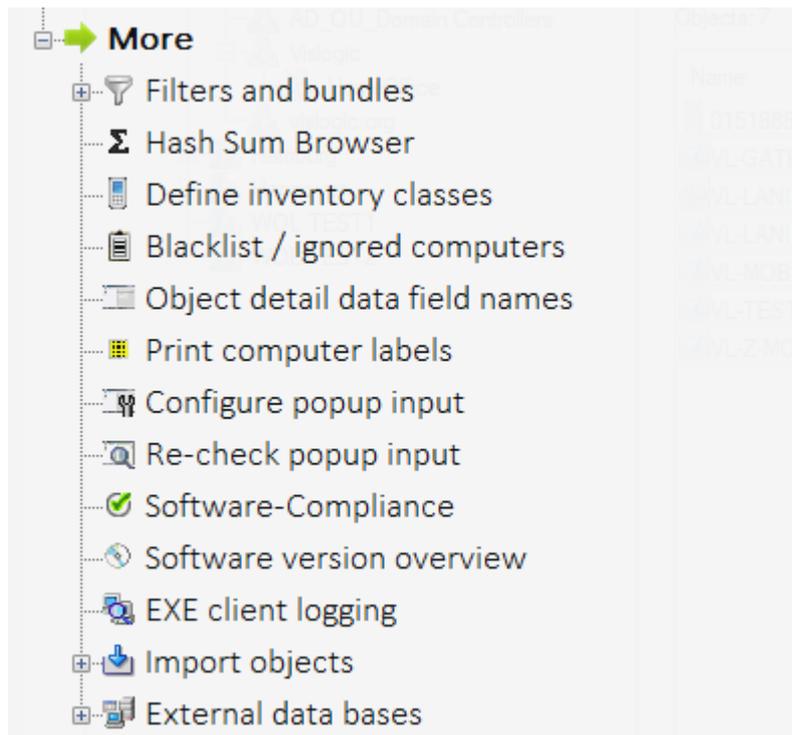


6.3.5.5 Save a Query as a Report Template

When you have performed a query successfully, you can save the used parameters as a template for a report. This means that you can repeat the calculation of the query with exactly the same parameters by only calling up the report template. If you save a report, it will be deposited in the „Report Management“, see 6.8 Report Management. The system automatically switches to that view and you can add additional parameters for the report such as e-mail sending or csv storage.

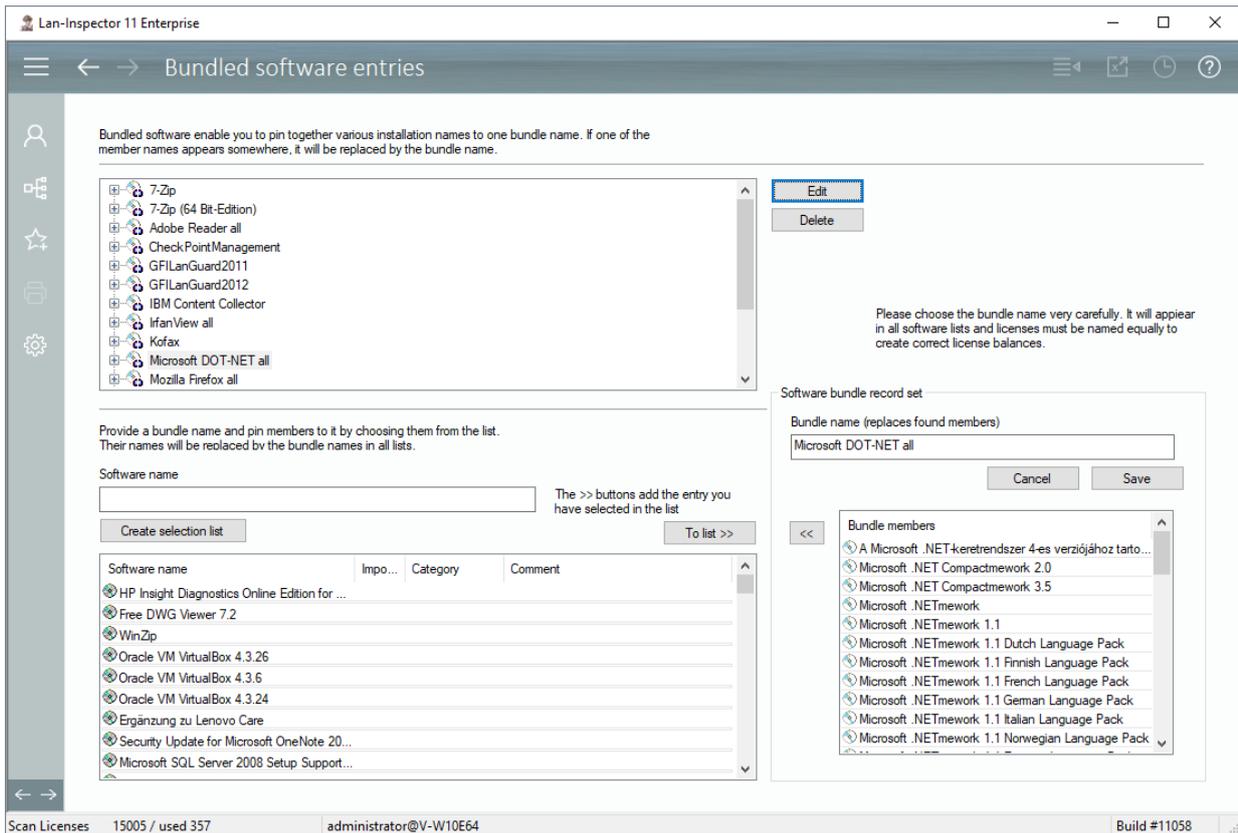
6.4 More (Inventory Tools)

Um Ordnung in die vielen Möglichkeiten des Lan-Inspectors zu bringen, wurden einige leistungsfähige Funktionen ausgelagert, da sie nicht so häufig genutzt werden. Unterhalb von „Inventarisierung/Mehr“ finden Sie umfangreiche Möglichkeiten:



6.4.1 Bundled Software Entries

If you have several different software names in your network specifying one and the same product, you can easily bundle them. An example for this is „Microsoft Dot Net“ which bundles all existing dot-net versions in the network to one master entry. The bundles are reversible. At any time you can click on the option “Resolve Bundles“ in different views in order to display all bundled entries instead of only the master entry.



The tree structure at the top contains all existing bundles whose children are the corresponding software members. You can select a bundle and click on “Edit” or on „Delete”. If you edit it, the configuration appears at the bottom right. Then, you can delete or add members from the catalogue on the left. Don’t forget to save your changes.

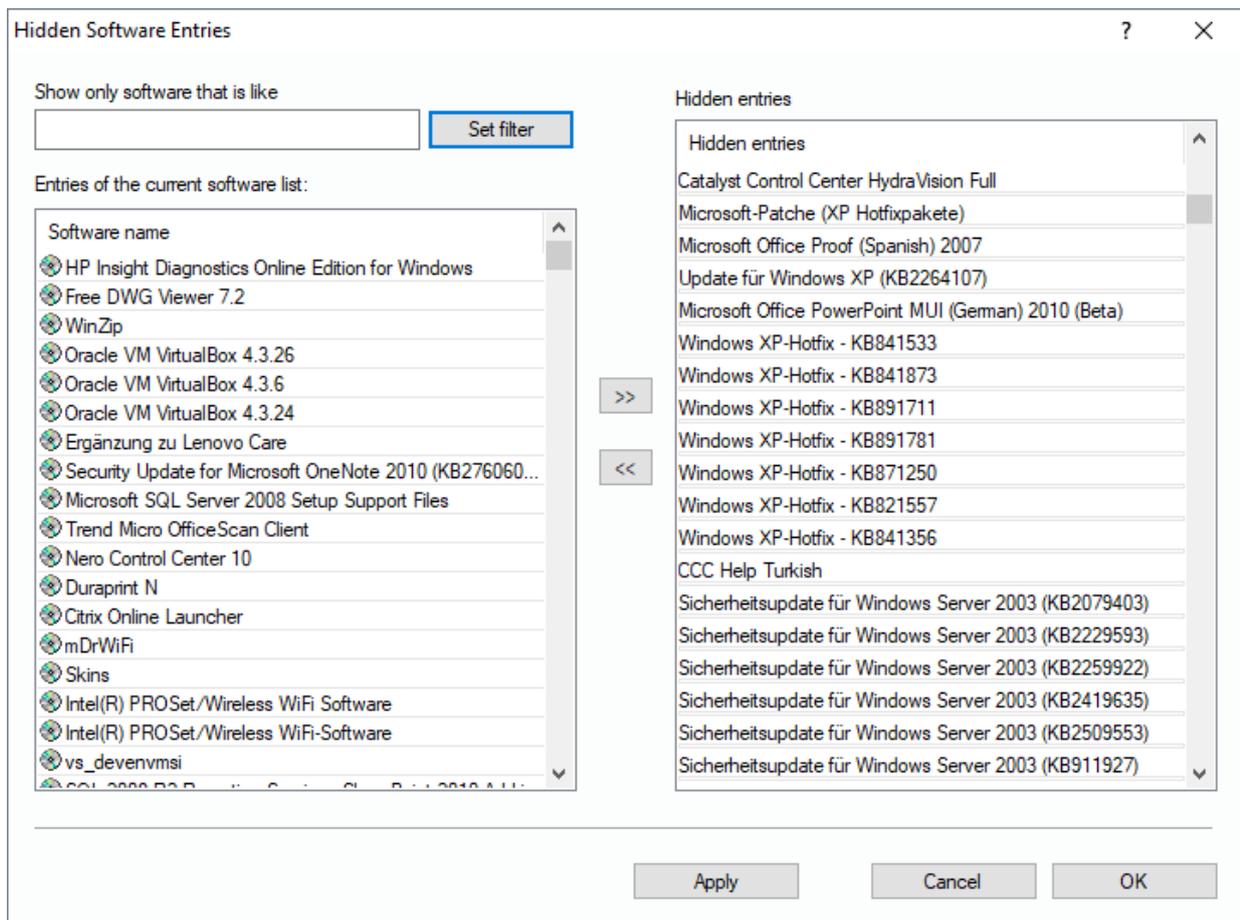
If you want to create a new bundle, enter the new master name in the field “Bundle name” and add members that are supposed to be linked to it. Click on “Save” then. The new bundle will appear in the upper tree structure.

6.4.2 Hidden Software Entries

To hide entries means that you permanently cancel them out of lists and out of calculations. The Lan-Inspector software catalogue contains loads of different product entries in your data base. It contains many things that are really unnecessary to your work. Using this function, you can hide those entries which means that they are not deleted. You can show them again by activating the option “Show Hidden Entries” in the different views. How to permanently wipe entries is described in the next section.

The dialog for hiding software is of very easy use. On the left, you have the catalogue of known software. If you like, you can set a filter to this list.

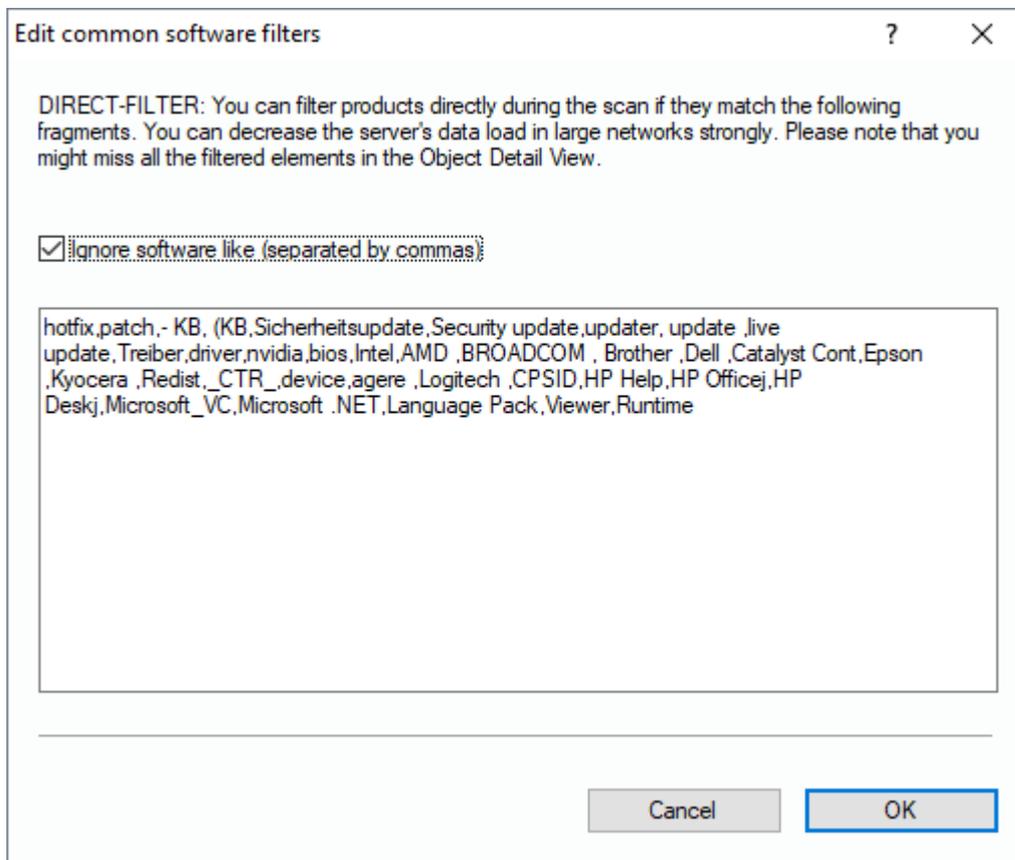
To add or delete entries, just select your changes and push them to the list of hidden entries via the “>>”-button. You can also select multiple entries in the list of hidden ones and push them out of the list by clicking on “<<”.



6.4.3 General Software Filters

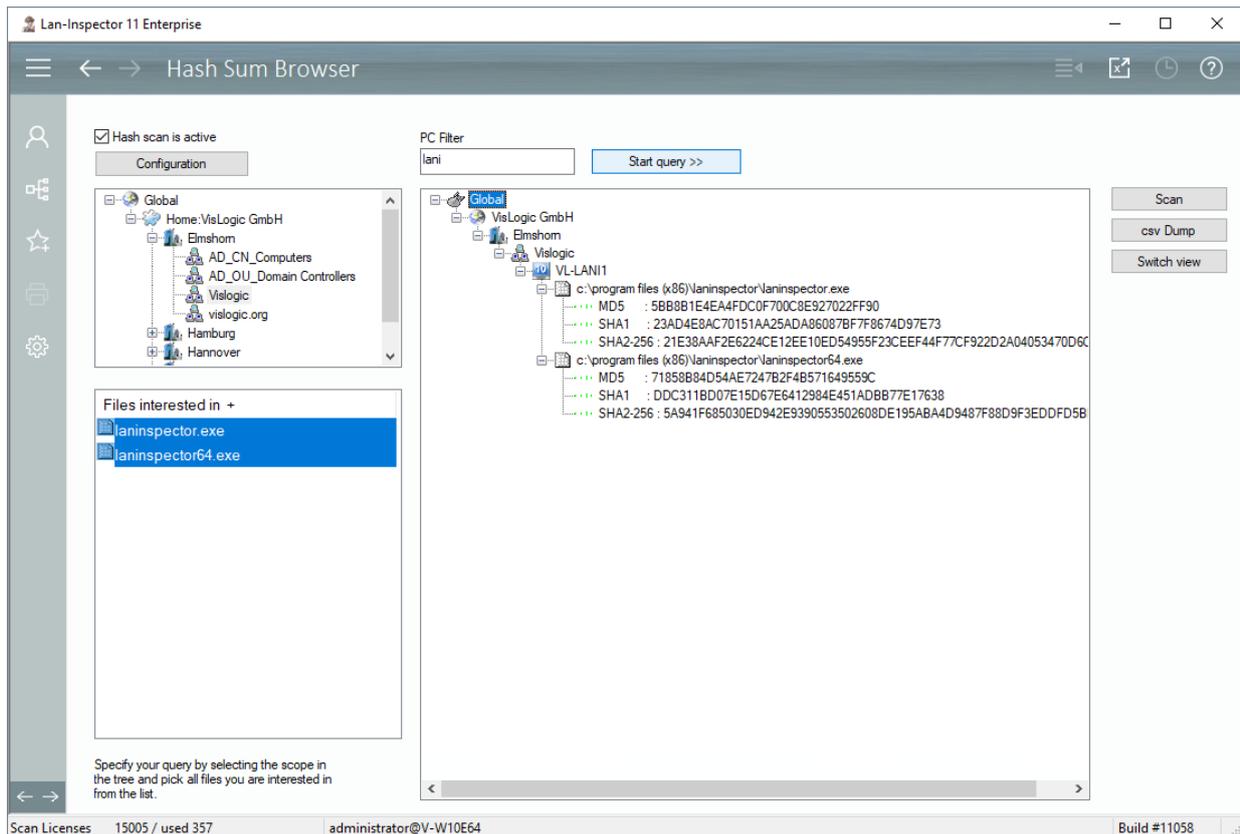
If you set general software filters, you provide patterns every software entry is matched with directly after a scan. If a product matches with any of the patterns, the scanner immediately deletes it from the records. This filter doesn't allow revealing entries that have been deleted like this. The general software filters help keep the data base smaller, because the countless entries will be skipped directly and not stored at all.

If you need information that has been deleted due to a match of one of the patterns, you need to change the filter patterns and re-scan the computers.



6.4.4 Hash-Sum Browser

Using this function, you can let the Lan-Inspector calculate hash sums of files with known file paths. This function has no special meaning for your license management. For the hash sums can only be calculated of files with specified paths, the function has only a small range of applications. If needed, it can be extended. Please ask us if necessary.

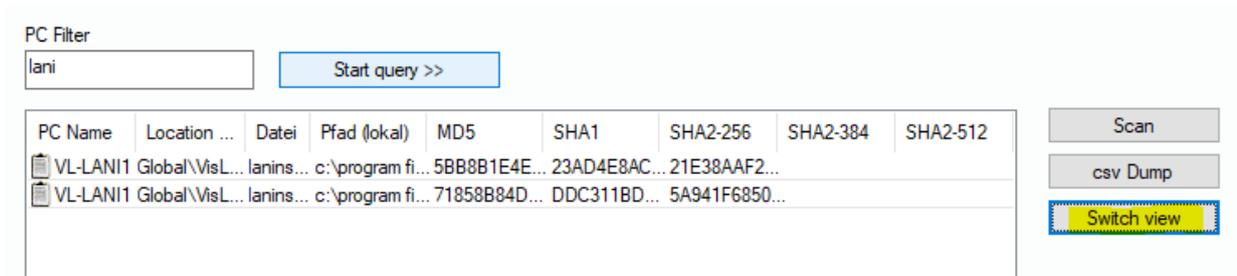


To specify executable files (which will appear in the list at the bottom left), click on “Configuration”. Only if you have specified exe files and if the hash sum scan is set to “active”, the next scan will calculate the hash sums for the files on the local hard discs. Of course, this can only happen if the files exist there.

Select the scope of your query by choosing a branch in the location tree. Afterwards you select the exe files of interest in the list below. If needed, you can also set a simple name filter for the names of the computers. Click on “Start query >>” to perform the task.

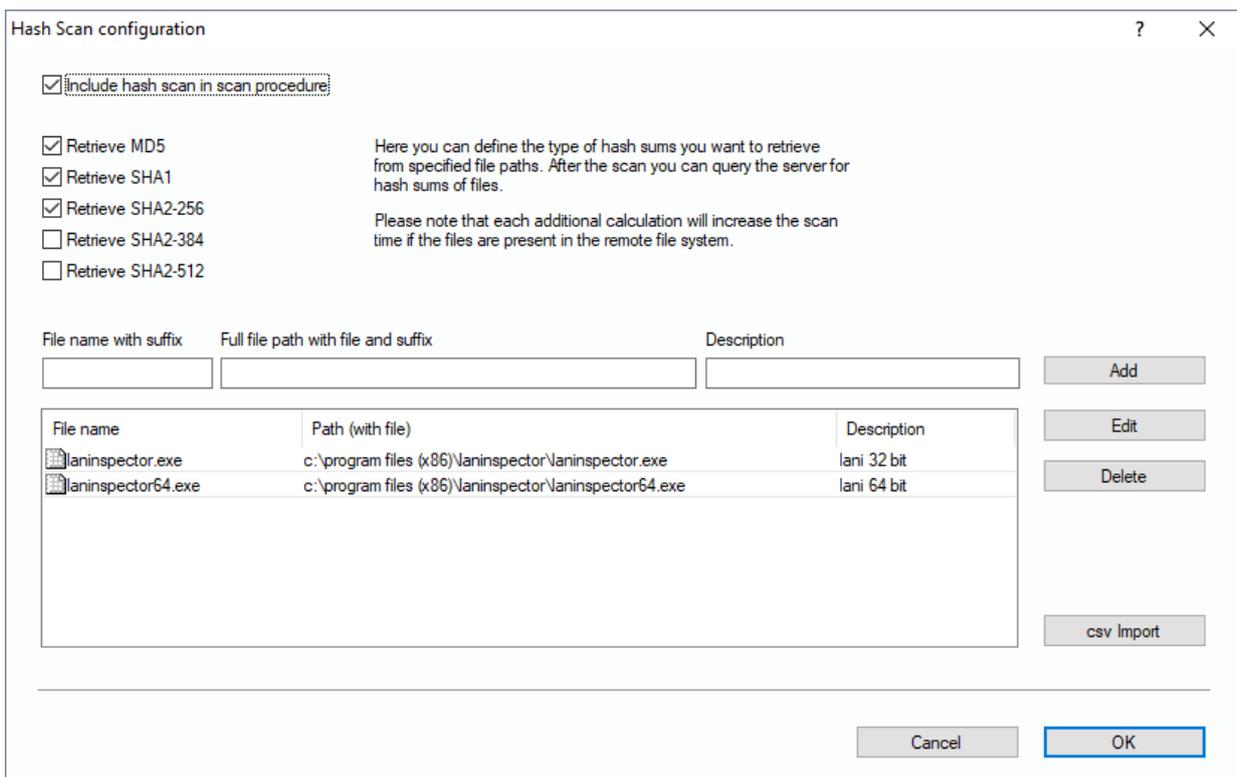
The result shows a tree that contains the location and all computers on which the files have been found. One level deeper in the resulting tree you will find the exe files with the corresponding hash sums.

You can also switch the result to display a list of PCs. Click on “Switch View” in order to do that.



6.4.4.1 Hash Scan Configuration

This is where you enter the files and their file paths. Choose what kind of hash sums you like to have retrieved. As seen in the picture, there are the following algorithms available: MD5, SHA1, SHA2-256, SHA2-384 and SHA2-512. This configuration dialog also offers the possibility to import files and file paths from a csv file. It needs to have the same three columns as the list has.

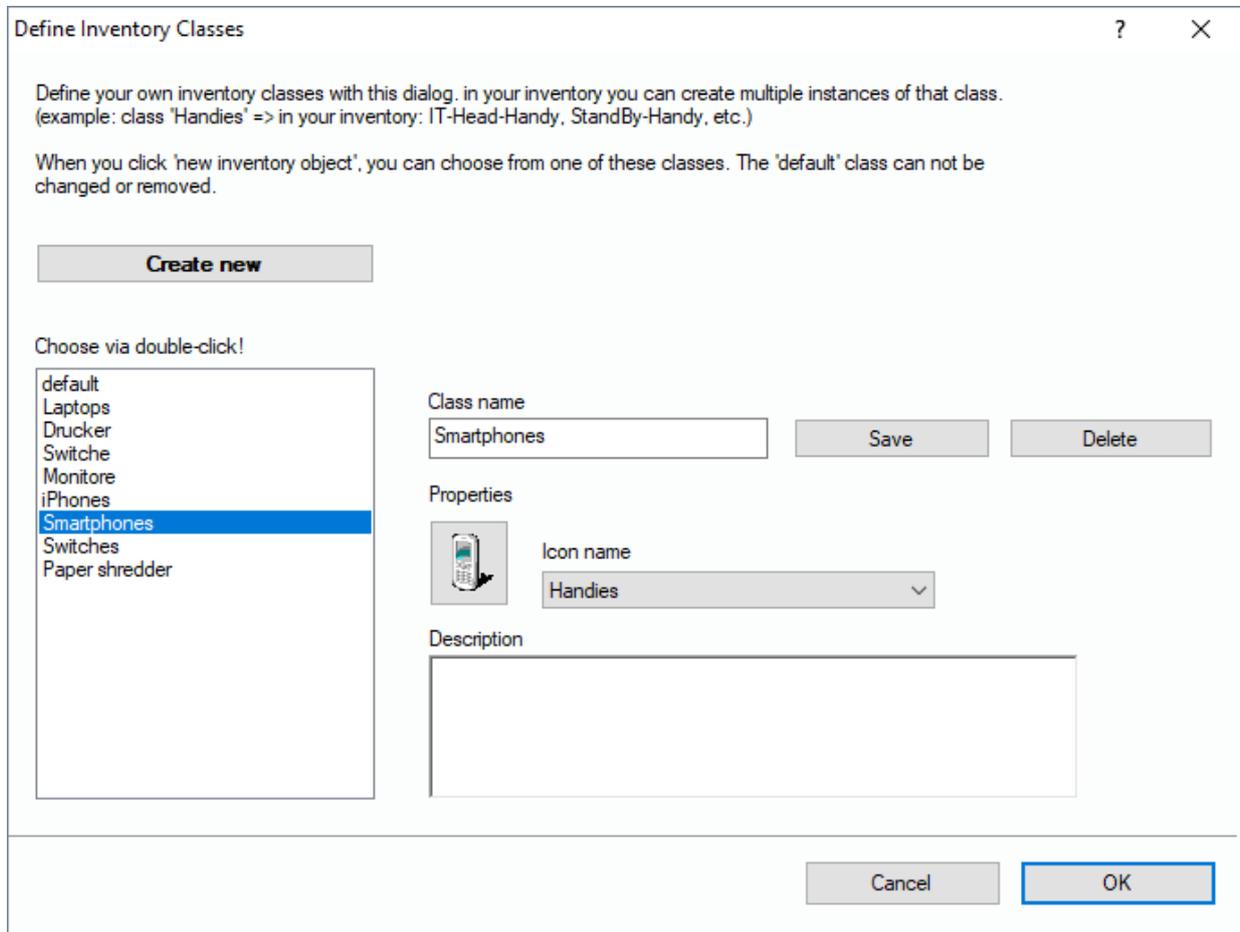


6.4.5 Define Inventory Classes

In this dialog, you can add and edit classes (categories) of inventory that can be seen as a shape of object you want to add to your data base. You can edit “Smartphones” as a class and add multiple instances to your data base. On the left side you see the list of existing classes. To edit

one, double-click on it. The properties will be displayed to the right. When you have finished your changes, click on the “Save” button.

If you like to create a new inventory class, just click on “Create new”, but don’t forget to save the changes afterwards. It will then be listed on the left.



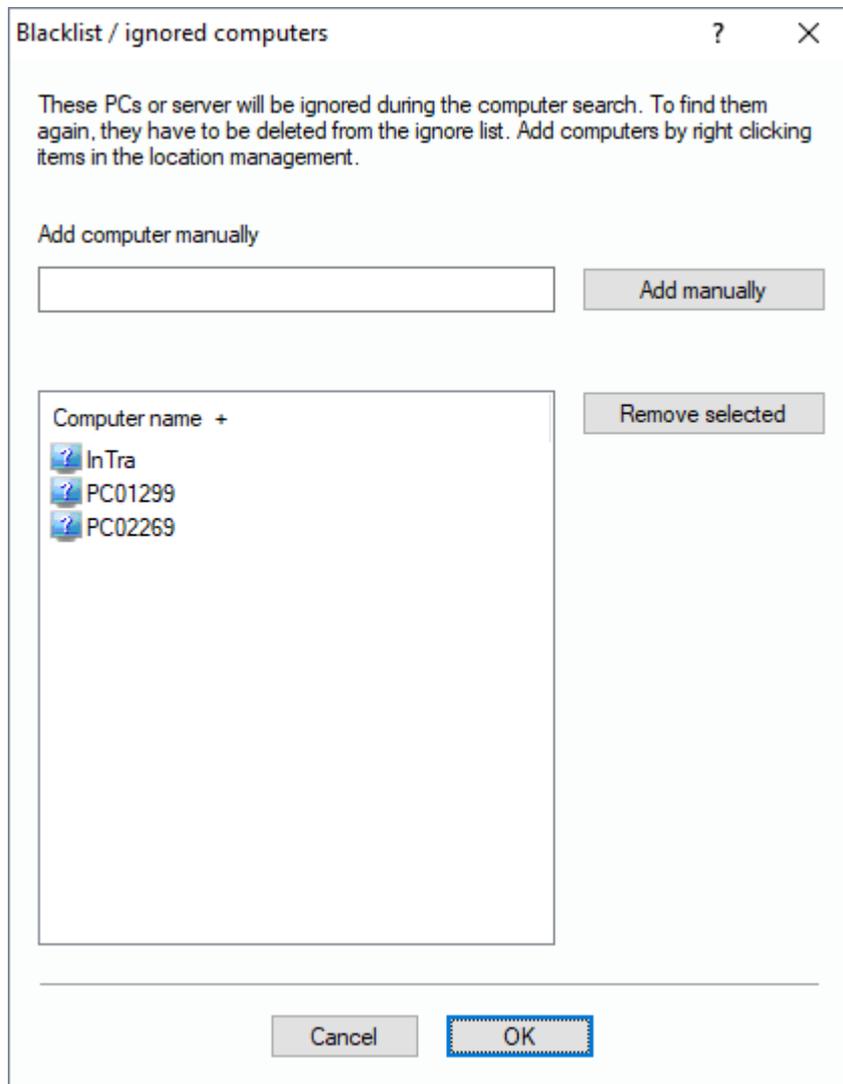
6.4.5.1 Add Inventory Objects to the data base

After you have defined a class, you can add multiple instances of it to the location tree in the different views by right-clicking on a branch and using the context menu. Inventory objects can be moved around the location tree as computer objects. They have “inventory details” and “properties”, but they don’t consume a Lan-Inspector scan license.

6.4.6 Blacklist / Ignored Computers

If you want to remove specified PCs or servers completely from views, scans, searches or queries, you can put them into the list of ignored computers. You can add the devices here in the dialog by manually typing in the name and click on “Add manually”.

In the location tree of different views, you can also use the context menu for computers to add them into this list. YOU can reach this dialog from the menu of functions here: „**Inventory Management/More/Blacklist-ignored computers**“.



6.4.7 Object detail data field names

All objects in the Lan-Inspector data base have 20 fixed data fields that you can name arbitrarily. When you select an object in the “Object Detail” view, a button “Inventory Details” becomes active. The content of the objects will be displayed if you click on that button.

Here, you edit the global names of these 20 data fields. The dialog is very simple. You can enter the wanted name for each field and decide whether the field is hidden or active in the views.

If you configure popup windows where the user has to type in local data on local client PCs, these 20 data field names become quite important, because the names will be displayed in the popup window at the client.

Object detail data field names

Field name 1 Hersteller	Active <input checked="" type="checkbox"/>	Field name 11 Grund für feste IP	Active <input checked="" type="checkbox"/>
Field name 2 Anschaffungsdatum	<input checked="" type="checkbox"/>	Field name 12 Kostenstelle	<input checked="" type="checkbox"/>
Field name 3 Abteilung	<input checked="" type="checkbox"/>	Field name 13 frei	<input type="checkbox"/>
Field name 4 Anrede	<input checked="" type="checkbox"/>	Field name 14 frei	<input type="checkbox"/>
Field name 5 Name	<input checked="" type="checkbox"/>	Field name 15 frei	<input type="checkbox"/>
Field name 6 Vorname	<input checked="" type="checkbox"/>	Field name 16 frei	<input type="checkbox"/>
Field name 7 Telefon	<input checked="" type="checkbox"/>	Field name 17 frei	<input type="checkbox"/>
Field name 8 Bemerkung	<input checked="" type="checkbox"/>	Field name 18 frei	<input type="checkbox"/>
Field name 9 Sonderausstattung	<input checked="" type="checkbox"/>	Field name 19 Dosen-Nr.	<input checked="" type="checkbox"/>
Field name 10 Feste IP-Adresse	<input checked="" type="checkbox"/>	Field name 20 Geräte-Nr.	<input checked="" type="checkbox"/>

Cancel OK

6.4.8 Print Computer Labels

This function helps you print individual labels for computers based on their inventory record set. Depending on the sheet size you want to use, you can customize the format adequately. The sheet sizes you are using can be arbitrarily defined.

You can also choose the font sizes. It is important to test your labels in the print preview to make sure the selected information at the bottom fits the label correctly and does not overlap.

Print computer labels

To be printed: Amount: Start label on the first page:

Paper format

Horizontal count per page:
 Vertical count per page:

Print paper fine adjustment

Enter floating point numbers with a point: f.e. 2.1

Besides your label print paper, you will find a layout paper. Please fill in the fine adjustment values on the right side. Without the layout paper, you will have to use try and error to fit the pages!

Script size: With this script size and that label heights, you can choose the following amount of print options:

What will be printed?

Main data	Scan data	Info data fields
<input checked="" type="checkbox"/> Computer name	<input checked="" type="checkbox"/> Operating system	<input type="checkbox"/> Producer
<input type="checkbox"/> Inventory number	<input checked="" type="checkbox"/> CPU	<input type="checkbox"/> Anschaffungsdatum
<input type="checkbox"/> Location/Group	<input type="checkbox"/> RAM size	<input type="checkbox"/> Department
<input type="checkbox"/> IP address	<input type="checkbox"/> Harddisc/size	<input type="checkbox"/> Salutation
<input type="checkbox"/> MAC address	<input type="checkbox"/> Graphics driver	<input type="checkbox"/> Name
<input type="checkbox"/> Serial number	<input type="checkbox"/> Sound driver	<input type="checkbox"/> First name
<input type="checkbox"/> Main user	<input type="checkbox"/> Network driver	<input type="checkbox"/> Telephone
<input type="checkbox"/> Room/building	<input type="checkbox"/> Last user	<input type="checkbox"/> Comment
<input type="checkbox"/> State	<input checked="" type="checkbox"/> User <input type="text" value="Graphic cards"/>	<input type="checkbox"/> Sonderausstattung
	<input type="checkbox"/> User <input type="text"/>	<input type="checkbox"/> Fixed IP address
	<input type="checkbox"/> User <input type="text"/>	<input type="checkbox"/> Grund für feste IP
		<input type="checkbox"/> Cost center
		<input type="checkbox"/> frei
		<input type="checkbox"/> Dosen-Nr.
		<input type="checkbox"/> Geräte-Nr.

Apply Cancel Close

6.4.9 Configure Popup Input (local popup window)

If your users in their local offices are supposed to help fill in the information about inventory, you can use the local popup window. The user of the computer will be prompted to fill in the wanted data. The local window looks like this:

Hello,
please fill in the following data.
Regards, your IT Administrator

Room / building: test

Main user: test

Inventory number: test

Abteilung: test

Name: test

Vorname: test

Telefon: test

OK

The popup window will contain those data fields you have activated in the configuration of the popup. You can also define any text you like as a welcome or directives to the user. The data fields have the same name as in the data base.

Configure popup input

Activate client pop up window when user logs on

If the actual lani agent is running on the clients, users can be prompted with a window to enter requested data.

If the user has entered data, it is collected with the next scan into the user defined data fields of the computers.

Options (changes will take effect with the next scan)

If no popup window has been displayed, yet - popup directly during scan and after reboot

If data was entered, re-popup after Scans. Start

Intelligent entry tracking (entry date is compared for each field, the last entry is taken over)

User entries have to be re-checked by the admin, before they are flushed into the database.

Here you can define the text, the user popup window will contain:

Hello,
please fill in the following data.
Regards, your IT Administrator

Test pop-up window

Active data fields

Specify the fields you want to include in the user popupwindow at the client. The names are the same as the user defined data fields of the premium server.
(Change at 'LaniPremium=>Change...')

CAUTION: Show the users only those fields than are not secret and that may be edited by them!

Room / building Main user Inventory number

Producer Anschaffungsdatum Department Salutation

Name First name Telephone Comment

Sonderausstattung Fixed IP address Grund für feste IP Cost center

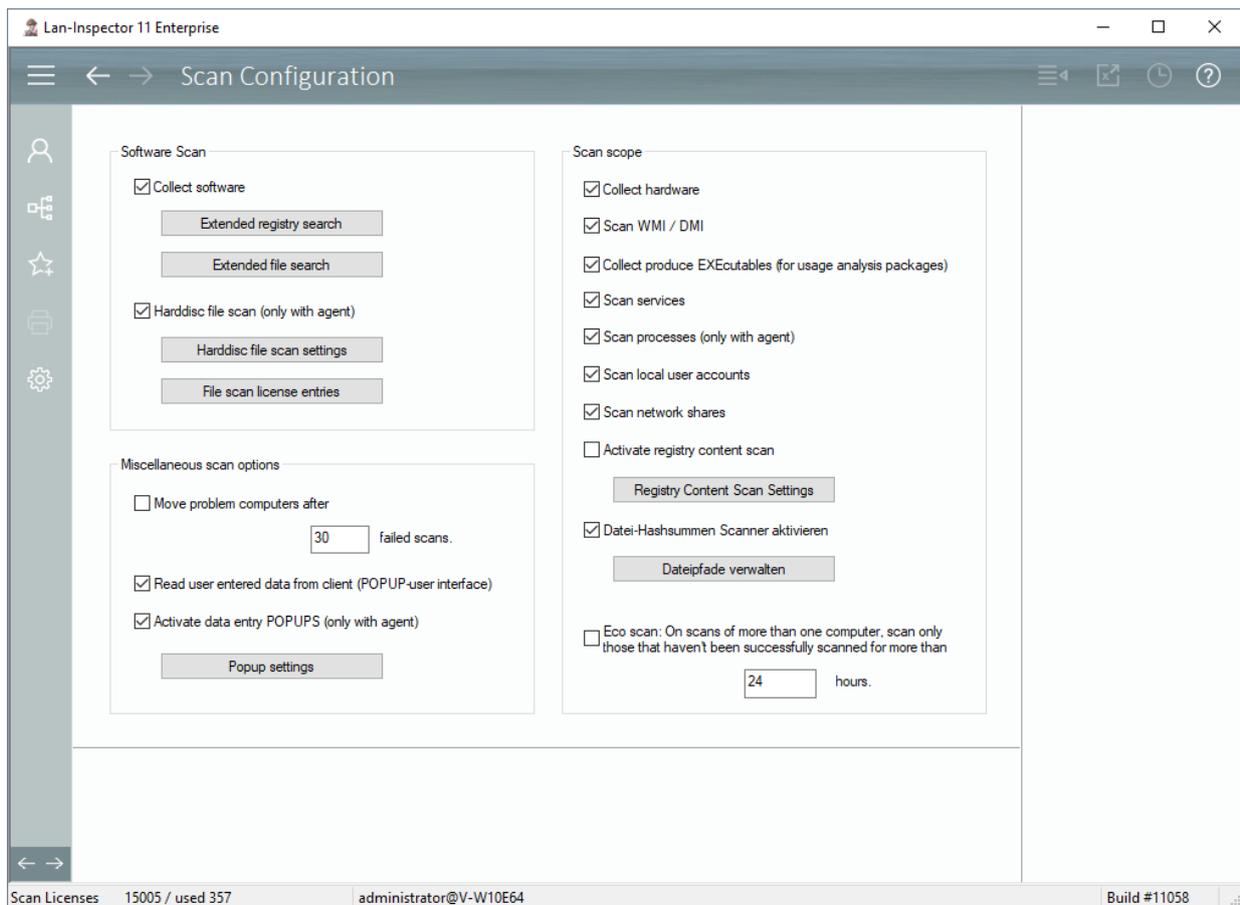
frei frei frei frei

frei frei Dosen-Nr. Geräte-Nr.

Apply Cancel OK

If you have activated the option “User entries have to be re-checked...”, the entries won’t be written to the data base immediately. They will be stored temporarily. Only if the administrator re-checks and approves the entries for each computer, they will be written to the inventory data base.

IMPORTANT: The popup functions only work if the registry content scan is not active, see 6.9.1.12 Registry Content Scan Configuration | **Menü: Administration and Settings/Scan Configuration:**



If a user has entered the wanted data in the popup window, the scan-engine collects it during the next scan of the computer. It collects the data asynchronously, because no user will be fast enough to enter the data in the small amount of time the scan takes. On the first scan, the scanner sends the popup configuration to the client, the user has time to enter the data, and during the next scan, the data will be collected. There are various possibilities you can configure in order to make sure the users will enter the data. If the users didn’t fill in all fields, the popup window will re-appear next time the user logs on to the computer.

A special merge logic will make sure that only the latest data will be collected and be written to the data base. If an administrator enters data manually into the data fields of an object and this entry

therefore is newer than the corresponding user's entry at the client, the system will prefer the newest entry. The logic also makes sure that direct manual entries to the data base will have a higher priority than the client popup entries.

6.4.9.1 Re-Check local Popup Input (Admin's Frontend)

If you have configured "User entries have to be re-checked by the admin ..." in the popup configuration, the system doesn't write the data directly into the data base. It stores the entered data in a cache where the administrator can check the entries if they are plausible / correct. In the function tree, choose "Inventory Management/More/Re-check Popup Input". The following dialog appears:

Re-check popup input

If you checked the corresponding option, the user's entries will be stored here temporarily. Select one computer to decide about it. Exit

These computers were modified by the users

Computer name	Location	Group
VL-LANI1	Elmshorn	Vislogic

Double-click on an entry to change the value

Field name	Recent content	Entered content
Room / building	RAUM NULL	Room NULL
Main user	GoMa	Masz
Inventory number	182389	182389
Hersteller	DELL	DELL
Anschaffungsdatum		
Abteilung	DEV	DEV
Anrede		
Name	Goseler	Szenessy
Vorname	Martin	Maxim

Field name: Recent content:

New content: Change

Delete user's modification
Store into database like this

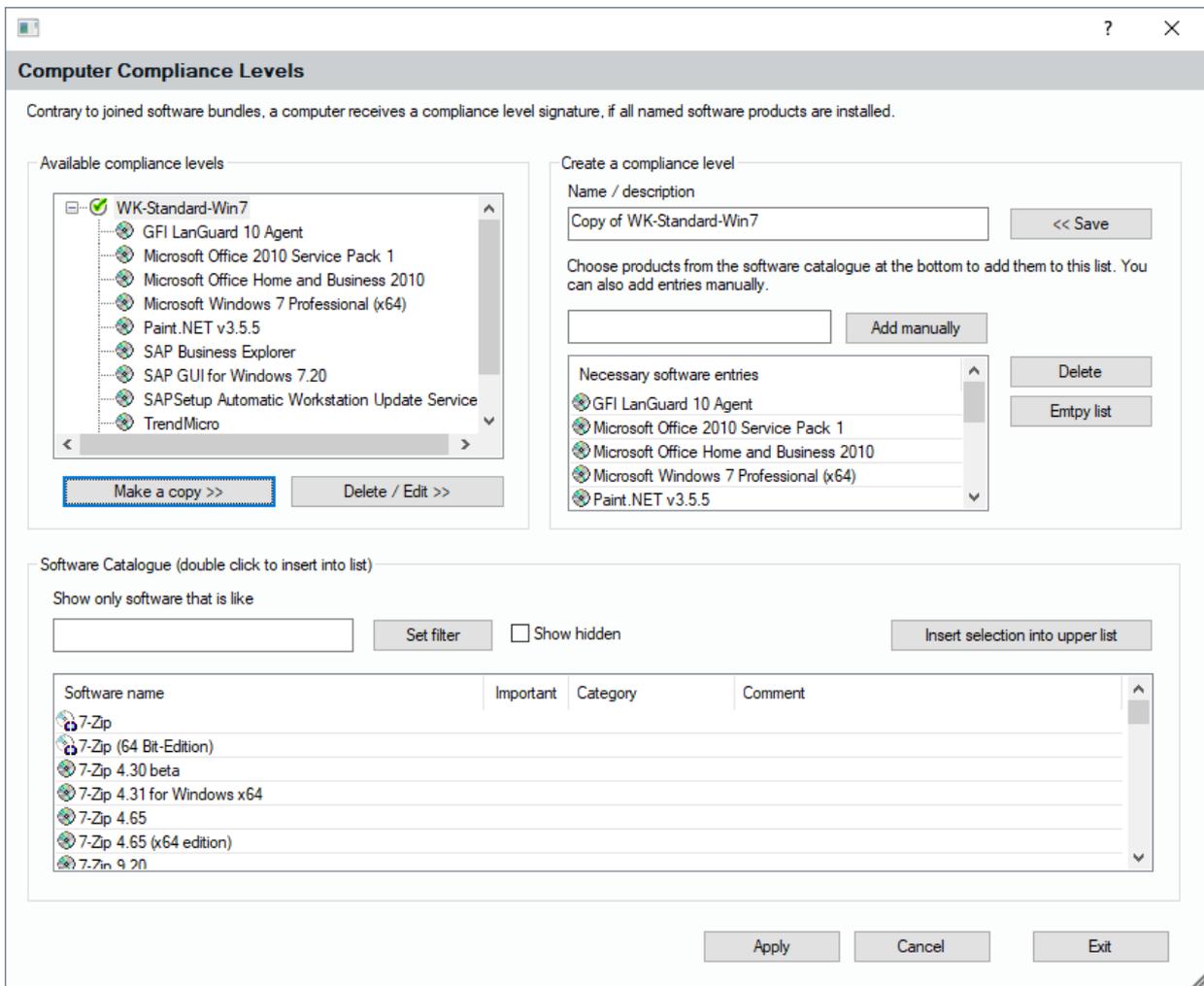
On the left side, you see the location tree which lists all computers with cached user entries. Click on one computer object. On the right side, you will see the object's content of the data base and next to it, you see the entries the users have made.

To edit a user entry, just double-click on the corresponding line. The content will appear in the fields below where you can edit them. Click on "Change" to save your changes.

At the end of the process, you have the choice between discarding the cached entries or writing them to the data base. Just click on the associated button.

6.4.10 Computer Compliance Levels

You can use compliance levels (sets) to set a standard of installed software products for your computers. A computer passes the compliance check of a compliance level if all products of that set are installed on it. You can define as many compliance levels as you like.



The editor for compliance levels uses a tree view on the left side to show existing compliance sets. The parent branch shows the name of the compliance level. Its child items show the members of software products the computer needs to achieve that compliance level.

To create a new compliance level, just enter a name for it in the name field on the right. The list below contains all members. Use the software catalogue at the bottom to add members to the list. Just (multi-) select the software you want and add them by clicking on “Insert selection to upper list”. You can also double-click single entries of the catalogue to move them directly to the list of members. You can delete or clear the list of members by clicking the corresponding buttons on the right.

It is also possible to enter a name of software in the field next to the button “Add manually”. This can help if the product is not listed in the catalogue.

When you have finished your work on the compliance level, click “<< Save” to store it and move it back to the tree on the left.

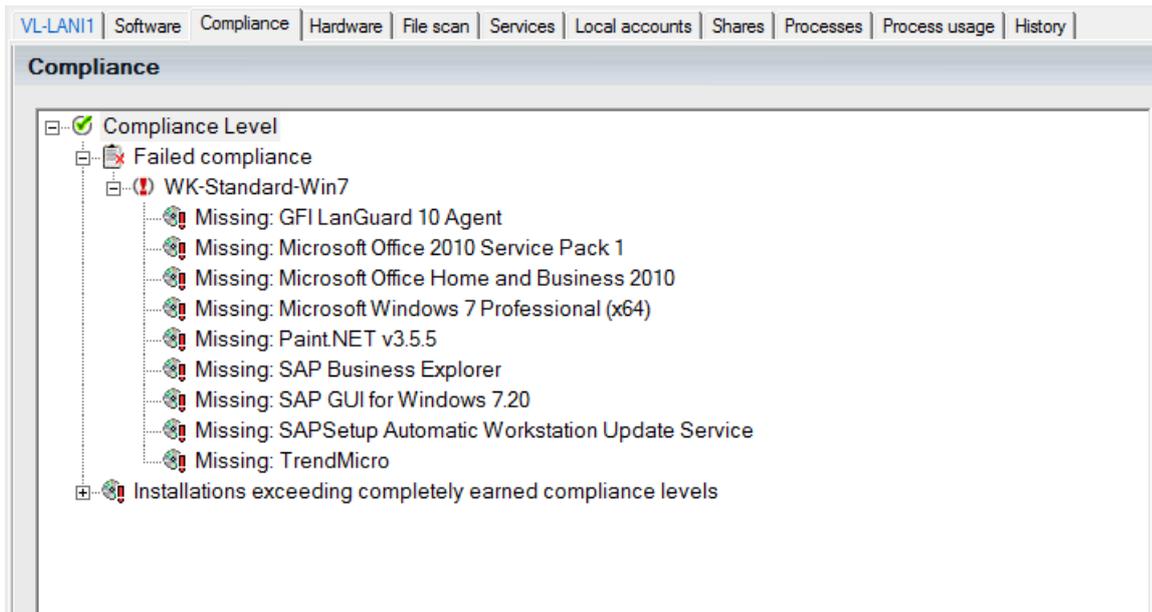
It is also possible to create cascading levels by cloning one entry. Just select one in the tree and click on “Make a Copy >>”.

In any case, don’t forget to save your changes by clicking “<< Save”.

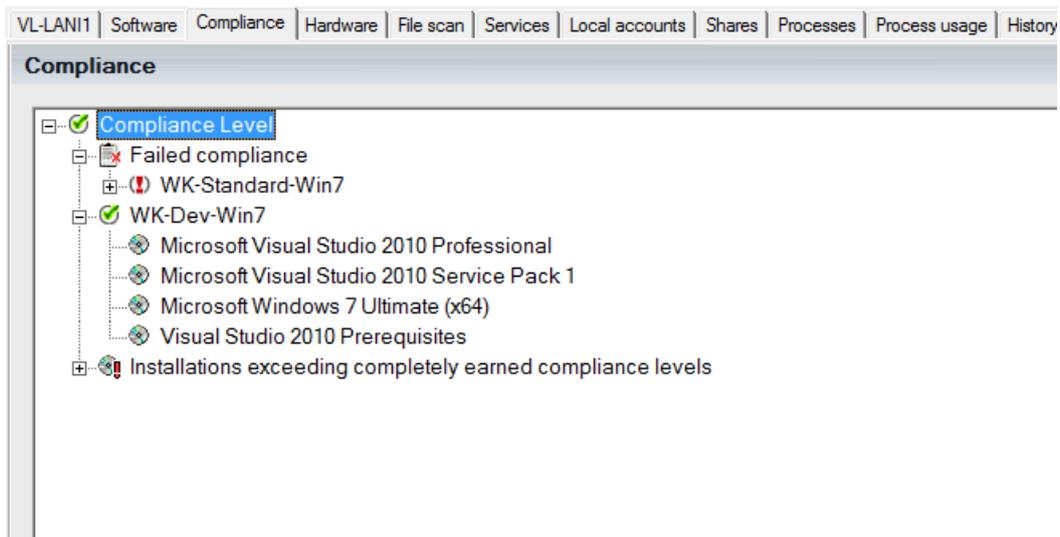
You will find the compliance results for each computer in the “Object Details”, and if you create a csv-report via the context menu of the “Location Tree and Network Search”.

6.4.10.1 Compliance Level View in Object Details

In object detail view, you can see at once if a computer meets the compliance levels you have defined. Once the computer has passed the compliance test, a green check mark appears. Otherwise, a red exclamation mark indicates missing or exceeding installations. The example shows a compliance level named “VisC++6.0” as not meeting the criteria because the required former MSDN package is missing.



If a computer meets all requirements, it looks like this:

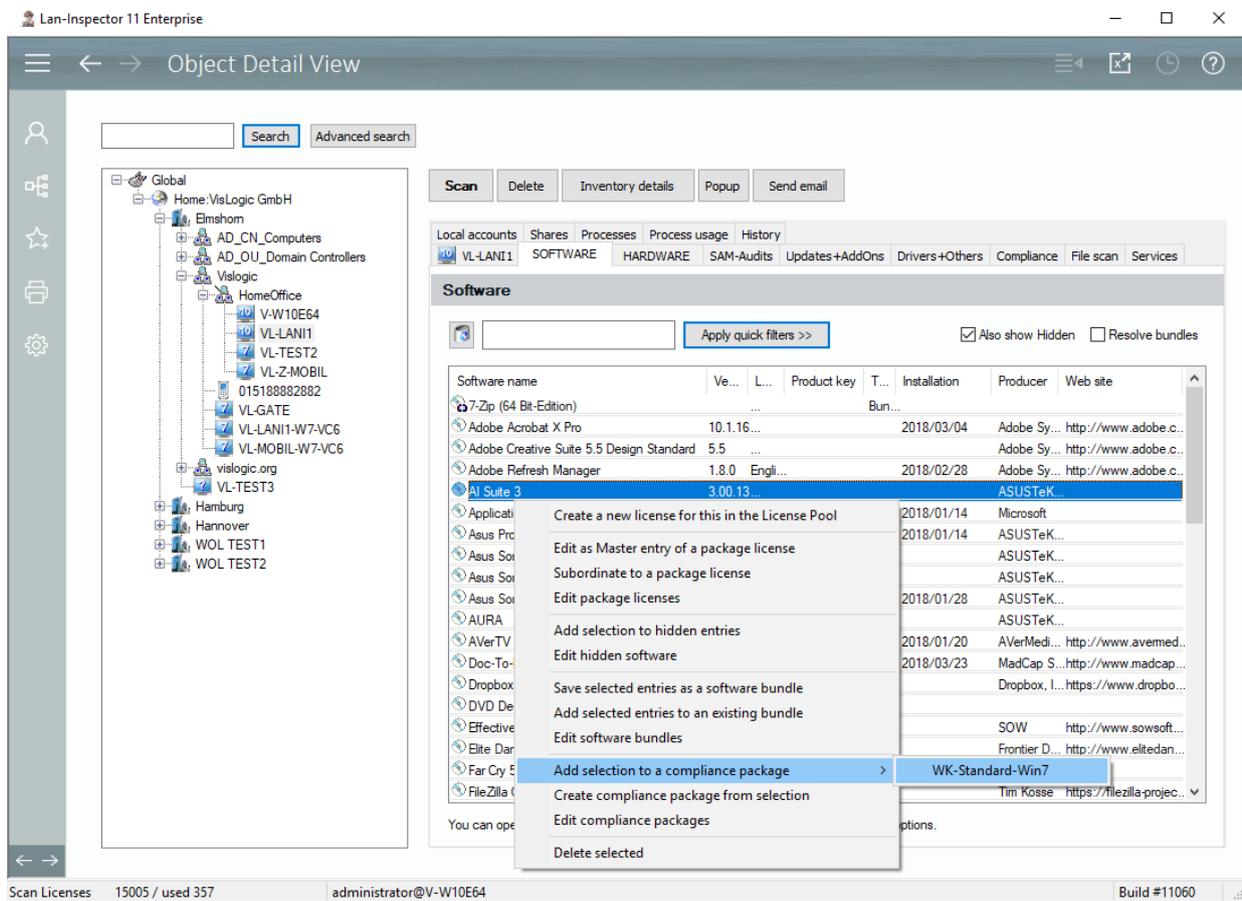


To receive a green check mark in the main branch, the computer needs to pass all compliance tests and no software is allowed to be installed exceeding the wanted list of products. The compliance tab will not be displayed if you haven't defined any compliance levels.

6.4.10.2 Edit Computer Compliance in Object Details

If you have selected a computer object in the „Object Details“, you can switch to the software tab and use the context menu in order to edit compliance levels. Using the right-click context menu

here, you can start a new compliance level starting with the selected entry, you can the selected entries to an existing compliance level or you can automatically switch to the compliance editor.



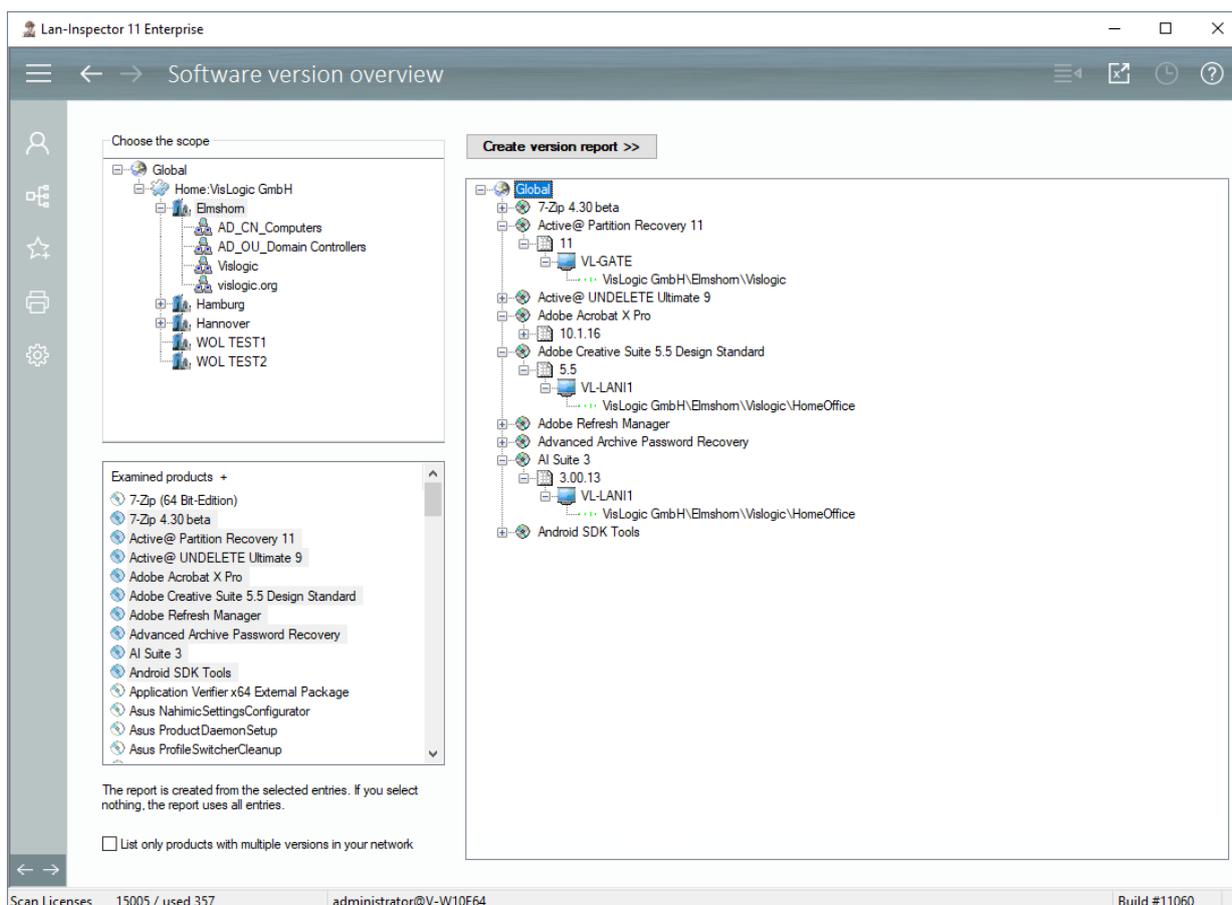
6.4.11 Software Version Overview

This function helps you resolve installations with perspective on their version. Just select the scope of your query within the tree of locations. Afterwards (multi-)select the products of interest in the list below. Now click on “Create version report >>”.

The resulting tree contains the products you have chosen if they have been found in the data base. Their child branches contain all existing versions of the product. The versions have child items that are corresponding to the computers that have this version installed.

If you are only interested in products that have more than one version in your network, you can activate the option below the list.

Note that you can also click on the “Excel-Button” in the top bar, to have the result as an excel list.

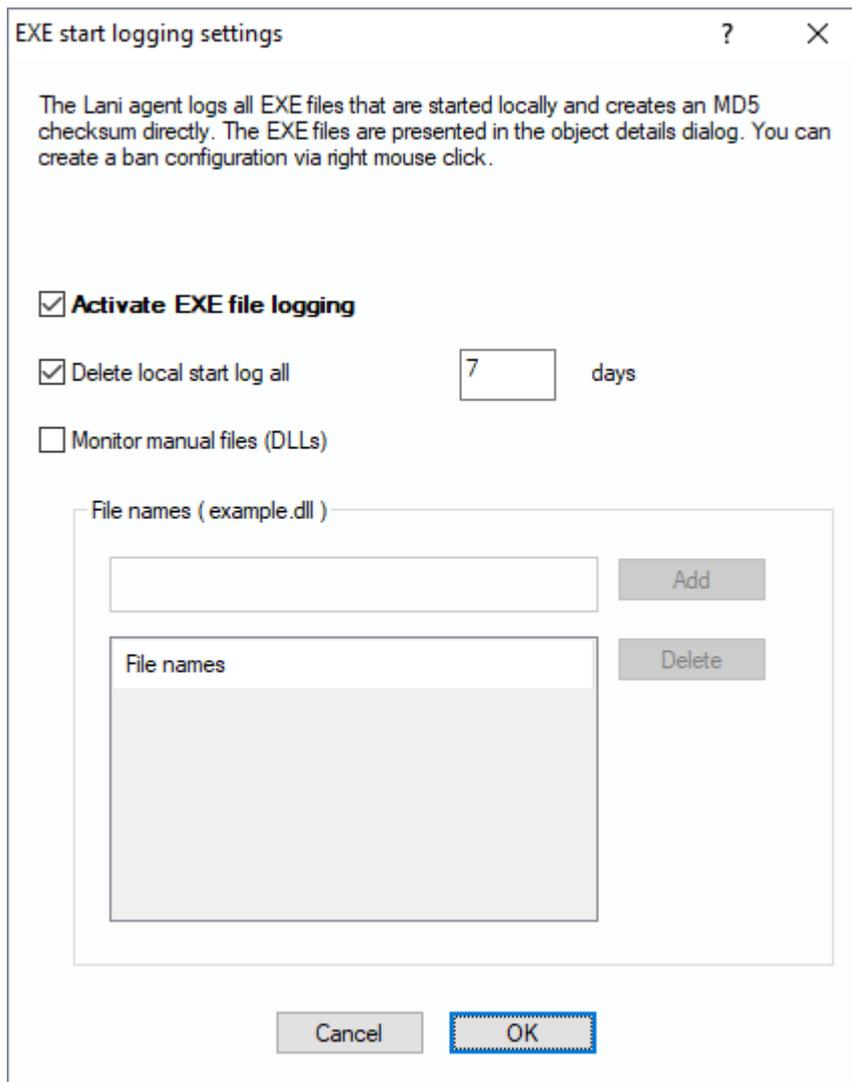


6.4.12 EXE Client Logging

Please note that the Basic Edition doesn't contain this feature. If you have activated this option, the local agent on the computers creates a log file of all executables the user starts in his access context. The exe files will be collected including their version and their MD5 hash sum).

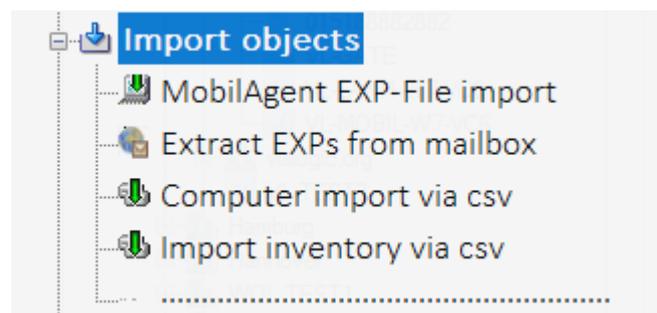
You can look at the results of the protocol by switching to "**Object Detail**" view and select the tab "**Process usage**" where all information will be displayed. Note that the local results have to be collected during a scan.

If needed (not recommended due to performance) you can also monitor if specified DLLs are used, such as Outlook add-ins, etc. Just add them to the list and scan the computers to submit the configuration.



6.4.13 Import Objects

The Lan-Inspector offers various methods to import objects of all kinds. The import functions can be accessed via the tree of functions “**Inventory Management/More/Import Objects**”. The following sections describe how they work.



6.4.13.1 MobilAgent EXP-File Import

There are several components of the Lan-Inspector system that create EXP files for storing inventory data. They contain all inventory data for one computer that has been scanned at a point of time. EXP files can be imported into the Lan-Inspector data base. In the function tree, you can choose the branch “**Inventory Management/More/MobilAgent EXP-File Import**” in order to open up the dialog for manual EXP import .

If you start an import process by clicking “**DIRECT IMPORT**”, every EXP file in the following folder will be imported to the data base:

C:\Program Files\Lan-Inspector\Import

This folder is also shared in the network as

\\Lan-Inspector-PC\LANIIMP\$

If you haven't installed to the standard folder, the path is correspondingly different. The Laniimp\$ share is created during the setup process automatically. The share grants write-Access to “everyone” on the network. EXP files use a secure cryptography algorithm to make sure no one can read or spy on them. These credentials are needed if you configure “Scan on Logon”, see also 6.9.3 Scan at Logon & Script Generator | „**Menü: Administration and Settings/Scan on Logon**“.

MobilAgent EXP-File import

If you click on DIRECT IMPORT, the Lan-Inspector imports EVERY inventory file (EXP) contained in the import directory of the installation. (\\laniserver\laniimp\$). To import additional EXP files from other directory sources you can provide a folder path here.

Path to folder with inventory data files (.EXP)

\\WL-LANI1\laniimp\$\ Browse

Count up failed scans if pc was not imported. Only in this named location: HH Servers

Pool group name for imports Import DIRECT IMPORT

Advanced Cancel OK

The import process reads all stored EXP files, checks them for actuality. All files stored in this folder will be read, checked for currentness of data and afterwards sorted into the data base. If you have stored EXP files somewhere else in the network, you can provide a path to that folder, here. The import process begins with copying all EXP files to the import folder and continues importing them. Furthermore, you can define a group in the pool of found computers where new PCs will appear. If imported EXP files belong to computers that are already member of the data base, the system decides which data is the latest and merges data correspondingly.

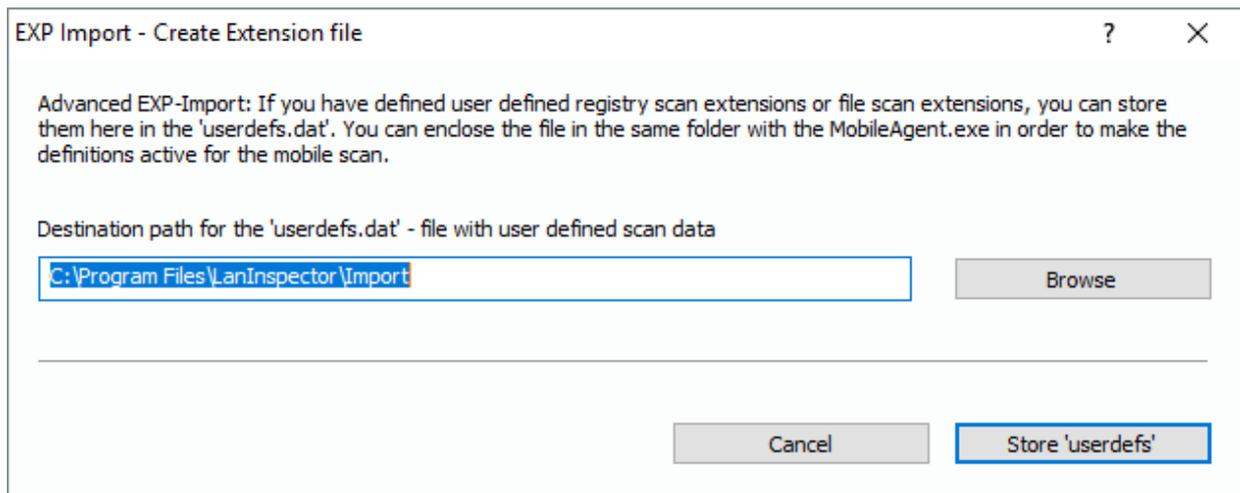
After EXP files have been imported, the system deletes them from the import folder automatically.

6.4.13.2 Count up failed scans during EXP Import

Usually, you don't need this function if you use automated scans for all PCs and servers. However, sometimes you don't want the scan-engine to access the servers directly during scans. It maybe the case that you only want to execute the "mobile Agent" to collect their data, creating EXP-files for the servers. If you have a location (example in the picture: "HH Servers") with only 120 server objects, and you import 100 EXP files, because 20 servers are gone, the 100 objects get their update, while the 20 servers without EXP file will count up their failed scan counter. Using this method, you can easily identify dead objects, even if you only use EXP-Import for updates of data.

6.4.13.3 MobilAgent Import - Button "Advanced"

If you have configured the scan-engine with user-defined scans such as user-defined registry scan or user-defined file scan, see 6.9.1.2 Extended Registry Search or 6.9.1.3 Extended File Software Search, you can submit these extensions for the use with the MobileAgent via the "Userdefs"-file. Choose a path and store the "userdefs.dat" there. The dat file contains the extensions. **If this file is located in the same directory as the MobileAgent.exe which is executed on the client, the extensions will be respected.** So, it is best to save it into the Laniimp\$-share of the Lan-Inspector Server.



6.4.13.4 Extract EXPs from Mailbox / E-Mail Data Collection

Assuming, you have field notebooks or similar island systems running the e-mail Lan-Inspector Agent (see 8.1.1 Inventory via E-Mail Configuration), the EXP files, including the inventory data, will drop into the specified mailbox. The Lan-Inspector can directly access the destination mailbox in order to extract the EXP files from attachments of the e-Mails. In the next step you can import the EXP files into the data base of inventory.

Extract EXPs from Mailbox ? X

If you're using the additional e-mail inventory function via the Lani Agents, they send EXP-inventory files to a specified mailbox. This dialog helps you with extracting those EXP-files from the mailbox. Afterwards you can order a direct import of these files.

E-mail address (serves as an information only: its configuration happens at the agent)

Hostname des Mailservers Port Use SSL on port 995

User name

Password

Delete e-mails on successful extractions from the mail server

Directly start MobilAgent import (EXP) after mailbox extraction

Destination directory for computer inventory files (,.EXP)

Using the function tree, choose **“Menu: Inventory Management/More/Extract MailboxEXPs“**, and open the corresponding dialog. It is not necessary to provide an E-Mail address at this place, because the address of the destination mailbox is configured in the agent’s scripts (see 8.1.1 Inventory via E-Mail Configuration). However, it is recommended for documentation purposes.

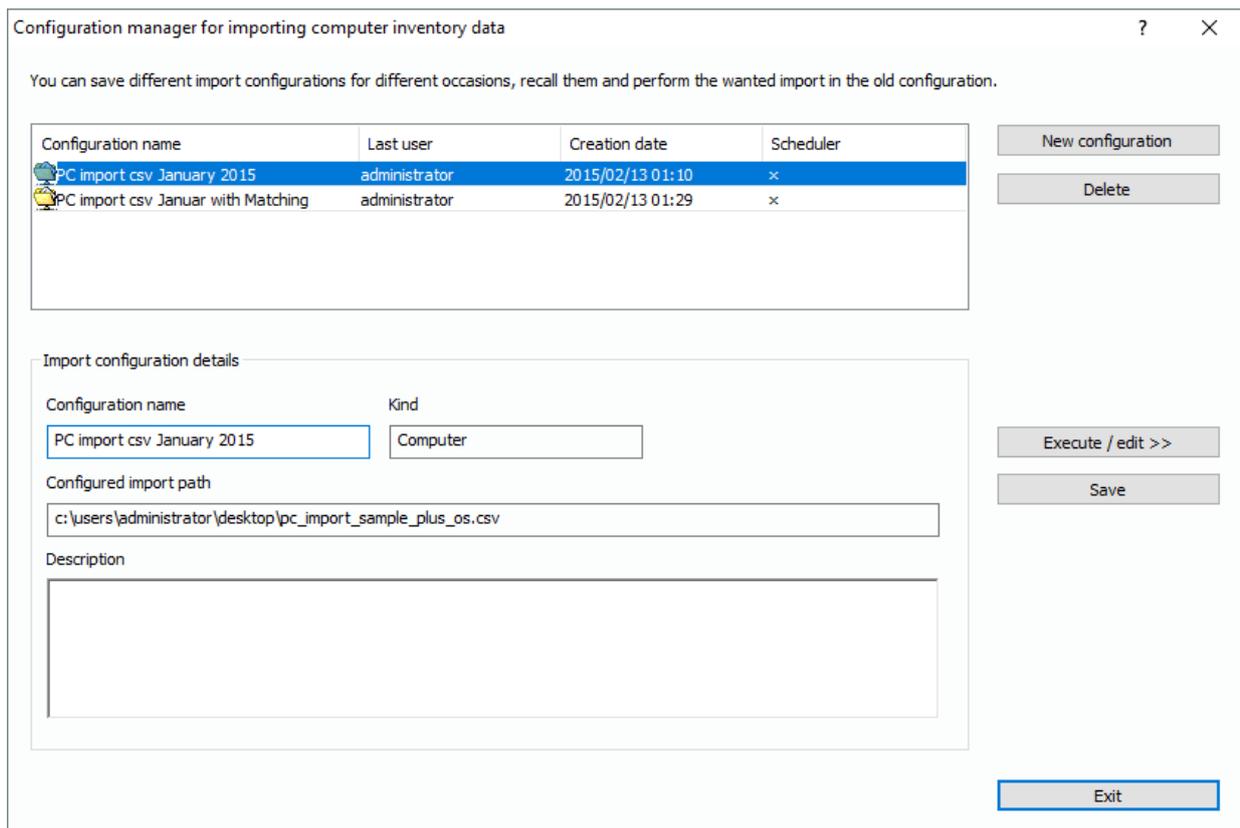
Please specify the host name of the mail server with user account and password, additionally the pop3 port which is usually 110. If you want to use SSL/TLS and if you activate the corresponding option, the port will be set to 995 automatically. Using pop3 access, it is necessary to specify user and password. Furthermore, you can activate the option to delete mails after a successful extraction. The folder specified below “Destination directory” will be used to store all extracted EXP files. It makes sense to leave the path with its default value, because this is the folder, EXP files are imported from into the data base. Start the process of extraction by clicking on the button “Start extraction”.

6.4.14 Import Configuration Manager

In the moment you call one of the import functions, the Lan-Inspector opens the import manager window. It helps you define and maintain various import configurations for different purposes. You can configure and save the settings for each import and re-call them at any time later.

Depending on the kind of import you are doing, which means what functions you called initially, the window describes the kind of import in the field “Kind”. You can select a configuration record from the list and delete or edit it by clicking the “Delete”-button or the “Execute / edit >>” button. The latter button calls up the configuration in detail, where you also have the possibility to execute the import process.

Click on “New configuration” to start an empty record you will configure in the next step.



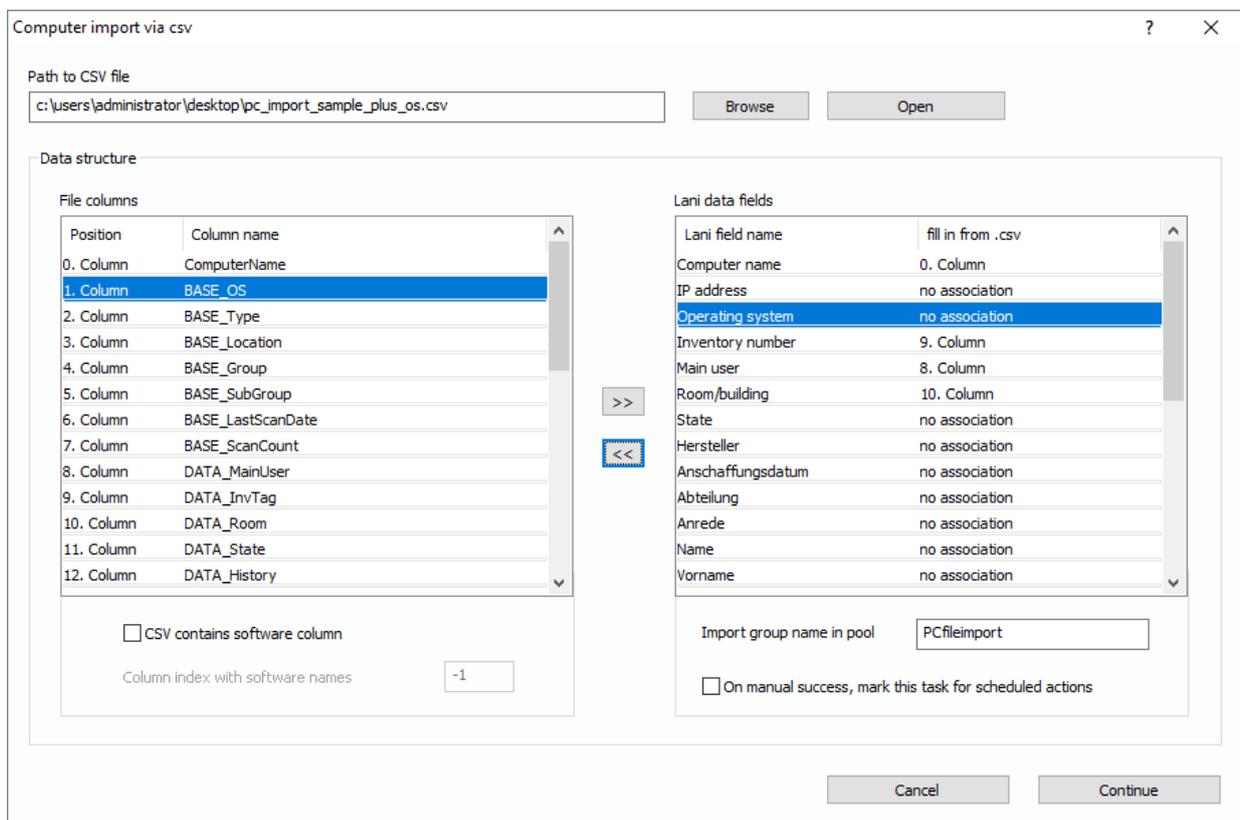
6.4.14.1 Computer import via csv

If your csv file contains only computer related data without software information, you don't need word matching functions. You will learn more about them in the next sections. The picture shows the import interface for regular imports of computer records without software.

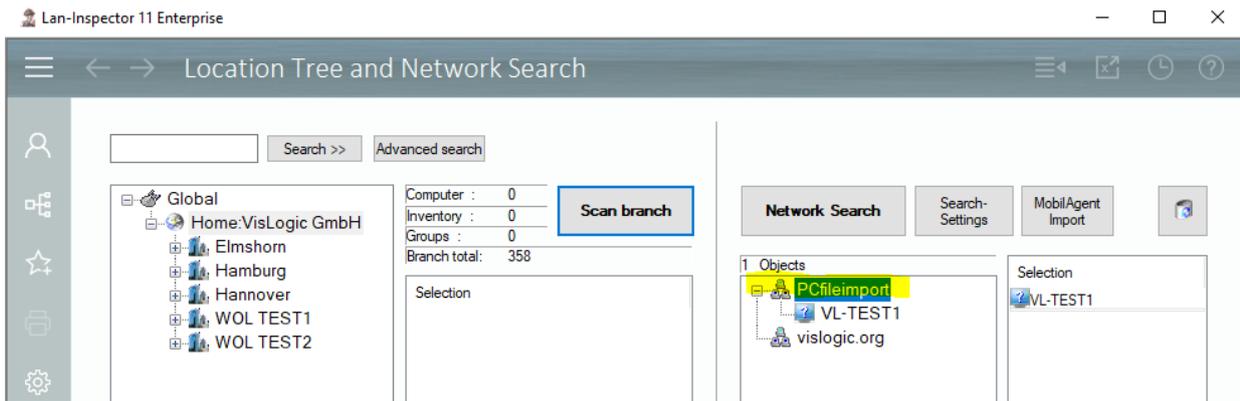
The available fields from the csv file have to be associated to the fields in the Lan-Inspector data base. You achieve this by selecting the fields you want to associate and click on “>>”. If you want to delete an association, select the field on the right and click on “<<”.

In this case the csv doesn't contain any software, so you don't activate the option “contains software”. If you scan imported computers later on, the software information will likely be overwritten anyway by real-time data.

As you can see, the field “Operating system” has no association. Because no information about it will be imported, the computers will appear in the pool with an “Unknown Operating System” and an icon showing a question mark.

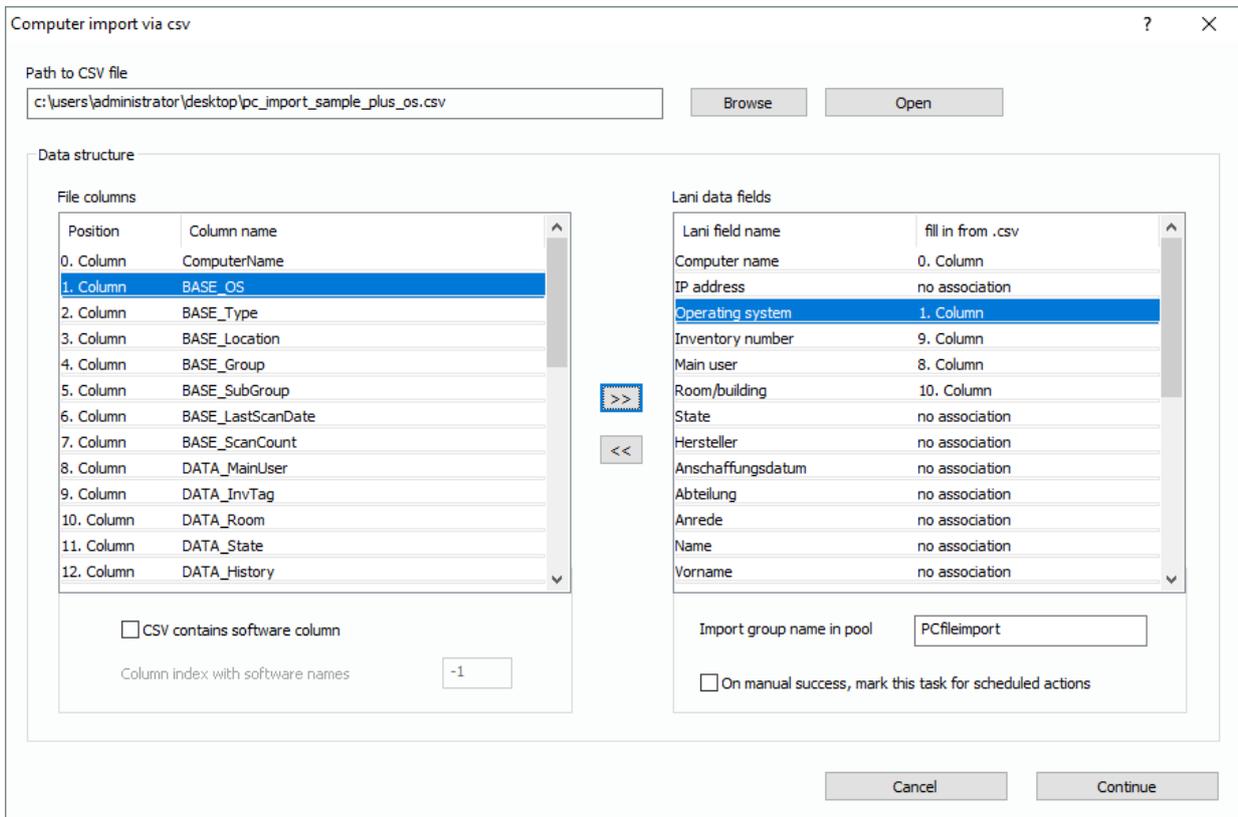


You will find the result in the view „**Location Tree and Network Search**“:



6.4.14.2 Computer import via csv (without software, with OS)

The names for operating systems underlie a standard in the Lan-Inspector, so it maybe that the names of operating systems in the csv won't match the standards and will therefore not be recognized. Instead of "Microsoft Windows 8.1 Professional", you might have "MS Windows 8.1 pro" in your file. In the picture you see that the field "Operating System" has an association now.



If you click on "Continue", the import process starts, trying to recognize the operating systems from the csv. On success, the field in the computer record will contain the proper OS and the object receives the correct icon for that OS.

If you have names of operating systems in your csv file that differ from the standard, the process creates a computer object with an “Unknown Operating System”. The import example from the installer package “pc_import_sample_plus_OS.csv” is supposed to demonstrate this procedure. It contains names of operating systems that differ from the standard. If you scan the PCs later on, the operating system will be corrected automatically.

6.4.14.3 Computer Import via csv (with Software and OS)

You can also import computer records that contain software information. In that case, the csv file has a column “Software” (in a multi-line manner). If you scan the pcs later, these entries will be overwritten with the current configuration of software installations. If you want to use this import method, you need a csv file in a multi-line style. Multi-line csv files use multiple lines for one computer record. As long as the key (device name) is identical in the first column, additional information will be taken from the following columns. In this case, it is the software column that contains one product per line. A computer with two installed products therefore has two lines in the csv file, both starting with the identical computer name.

In this case, you need to activate the option “**CSV-file contains software column**” and specify, which column it is.

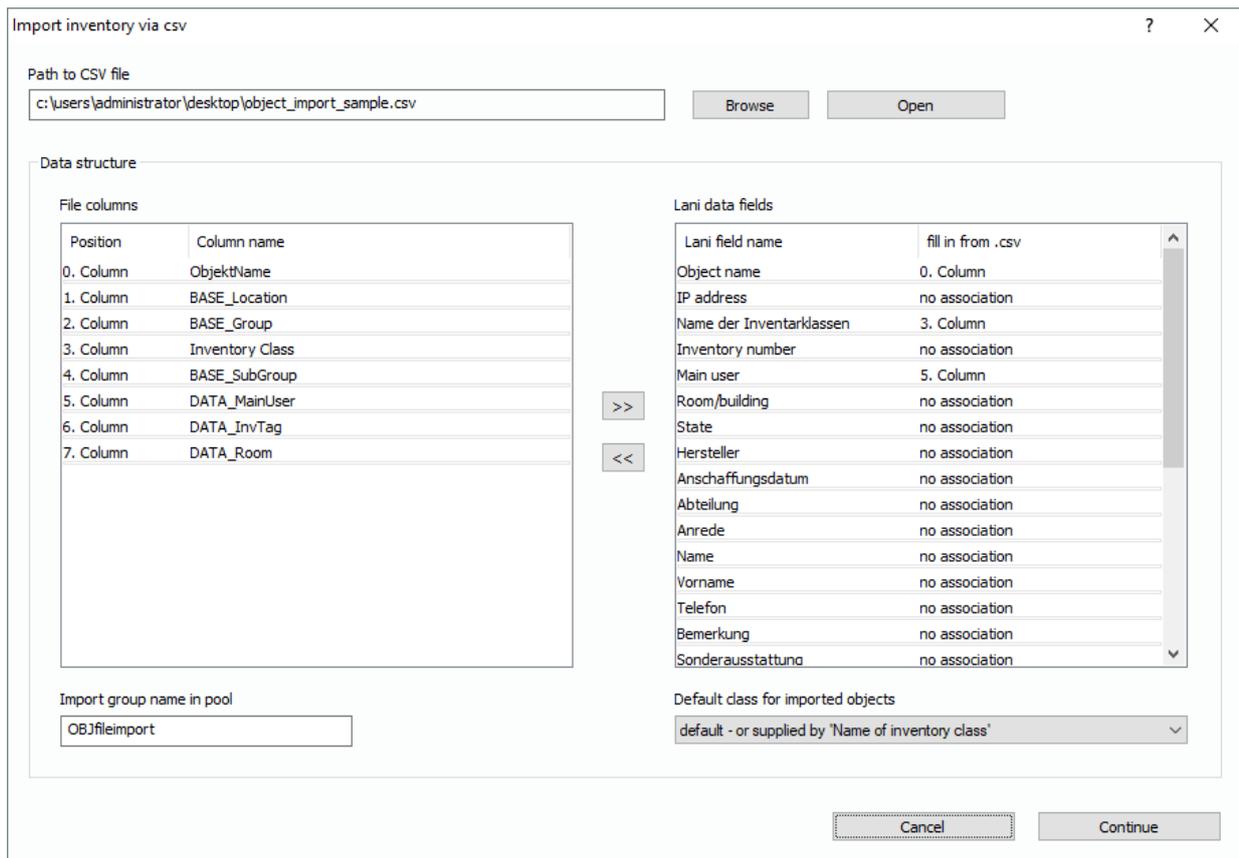
Note: imported software will likely be overwritten through scanned software information.

6.4.14.4 Inventory Import via csv

The function “**Inventory Management/More/Define Inventory Classes**”, see 6.4.5, helps define own classes of inventory. They are like blueprints for multiple instances of the type of object you can add to the data base then. This way, you can add phones, switches, routers, and more to the data base.

This import function can import complete lists of inventory objects. If you call this import process via the tree of functions, the Lan-Inspector shows up with the Import Configuration Manager as described before. You create a new record and click on “Execute / Edit >>”.

Afterwards you will be prompted to provide the path to the csv file. The function parses the file and shows all columns it has found. Now, you can define the association of columns like described before.



You also specify the name of the group in the pool, where the imported objects will show up. Additionally and uniquely for this import, you have to specify the class of inventory. Select the correct entry from the drop-down list at the bottom right.

The list contains all inventory classes you have defined before. If you leave the settings on **“default – or supplied by ‘Name of inventory Class’”**, your csv file needs to have a column containing the name of the inventory class. When an object is imported from the line of your csv file, the name of its inventory class is taken from that column. If the class has not been defined in the data base, a corresponding class entry will be added automatically.

6.4.15 External Databases and Export

This section describes the ways of connecting external data bases like Access, MSSQL, and MySQL via ODBC. Next to these methods, there are various hooks for exporting lists to csv files, and of course, you can mostly use the Excel-button.

6.4.15.1 Connecting External Databases via ODBC

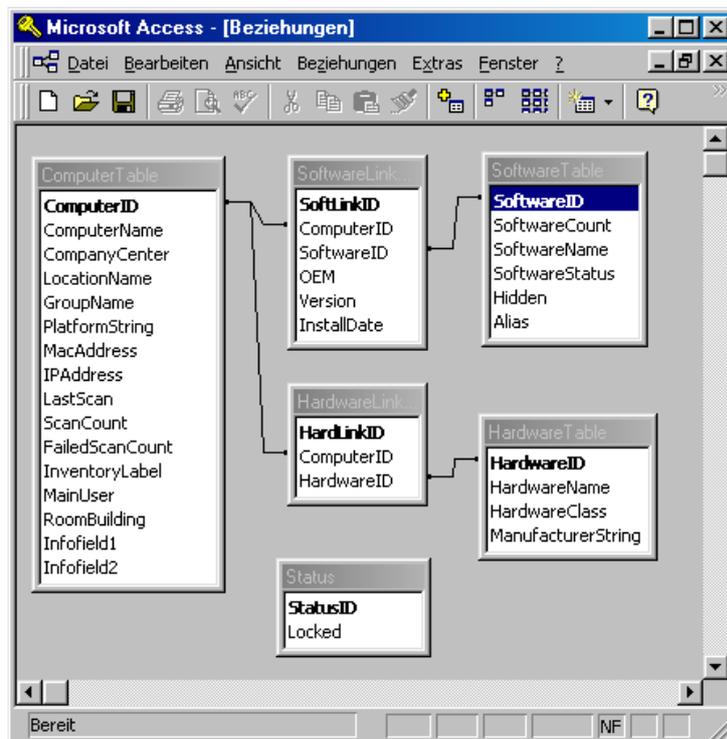
Due to performance reasons and license saving reasons, the Lan-Inspector uses an own internal object-oriented database model. If necessary, you can use ODBC to connect the database with

external databases for third party or own applications. A synchronization process, you need to start from time to time, will keep the external data up-to-date with computer records that contain software and hardware information.

6.4.15.2 Synchronizing Parallel Databases

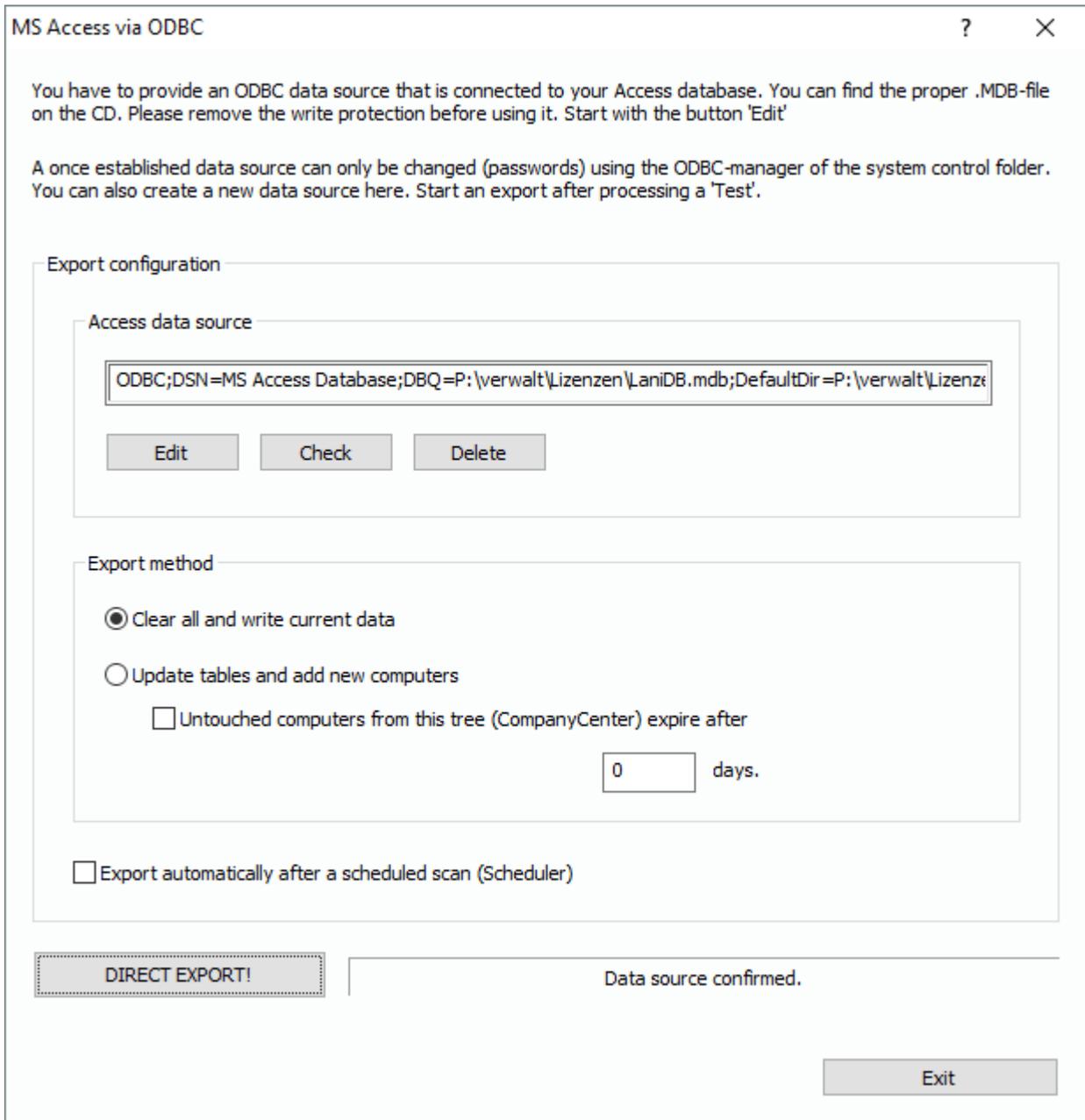
During the process of synchronizing the Lan-Inspector analyzes the existing data in order to make sure that IDs for computers, hardware and software will be persistent. You can use this external database as a permanent foundation for other applications. You only need to synchronize the databases via a scheduled plan or manually.

The following picture shows the relations. They are the same as in the other database formats.



6.4.15.3 MS Access Anbindung

You reach this function via the tree of functions by choosing **“Inventory Management/More/External Data Bases/MS Access connection”**.



On the installation CD or in the downloaded installer package, you will find a prepared ACCESS-database in the folder "MSAccessExport". To establish a connection to an Access database, you need a finished database structure.

Copy the example database (.mdb) and remove any write-protection, before you start an export. You can always edit and extend the access structure if needed, as long as you leave the existing tables as they are.

You need to establish an ODBC connection to the .mdb-database. Click on "Edit" to call up the system dialog for ODBC connections. Name the connection, choose the MS Access ODBC driver and provide the path to the **lani.mdb** file.

Once, the system has confirmed the new data source, you click on "Test". If everything works fine, you can start your export and synchronize the data. To include the synchronization process in a scheduled plan, you need to perform the process at least once manually with success.

You can choose between two methods:

1. Empty all and re-write everything.
2. Analyze existing data, keep IDs. Drop computers with older scan date than 'n' days

The second method allows you to keep unique IDs for the computers. You can also specify an expiry date for computer records.

6.4.15.4 MSSQL Connection

MS SQL export works just like MS Access export. However, here you only have to select the server and no standard database when crating an ODBC connection. After that, you can rename the database in Lan-Inspector, create a new one or delete it. The rest is similar to the Access export. If fields are greyed out, press 'Test'. You will need the relevant permissions on the SQL server.

If you use MS Access frontends as input masks to access an SQL server, problems may arise when also exporting the 20 data fields. (Access cannot do that). Therefore, you have the option to omit these fields when using this kind of connection.

6.4.15.5 MySQL Connection

This export works the same way as the ones previously described. You will need at least the **MyODBC 3.51.0x driver**. To create the ODBC connection, you have to create the **LaniDB** database in MySQL manually. Only then, the ODBC connection will be created. Otherwise, the same rules apply as with MSSQL.

6.4.15.6 General note on scheduled exports

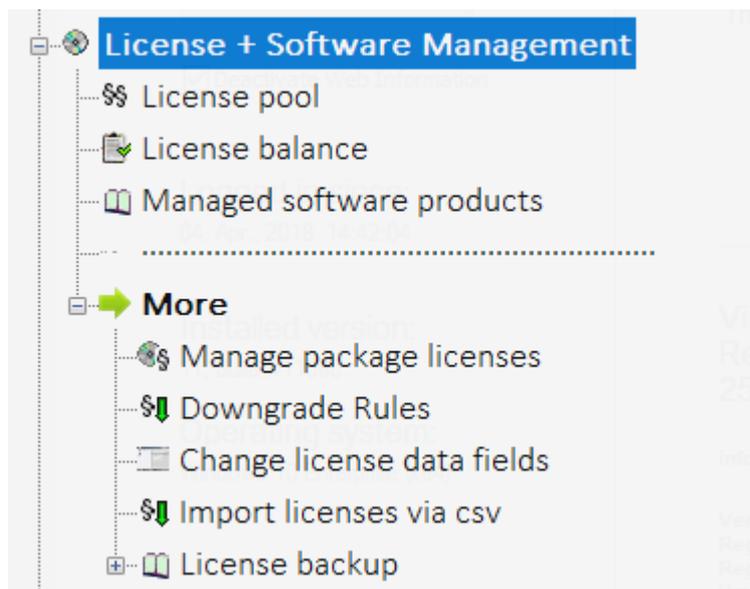
The Lan-Inspector will create ODBC shortcuts in the frontend. The scheduler, however, runs on the computer running the LaniMasterServer service. Therefore, if the scheduler is to export data, the ODBC shortcut must exist on the master servers' system. To avoid this problem, start a frontend on the server and configure the links there.

Problems with access using Access: Due to the scheduler running as independent session in SYSTEM context, problems may arise when accessing Access MDB-files residing on network drives. To export via a scheduler, the MDB file must reside on the local Lan-Inspector computer.

Problems with MSSQL permissions: Since the scheduler runs in SYSTEM context, problems may arise when accessing the SQL server, in case of ODBC shortcut configuration via “Windows Authentication”. To export using scheduler, you need a SQL server account (e.g. sa, if available.)

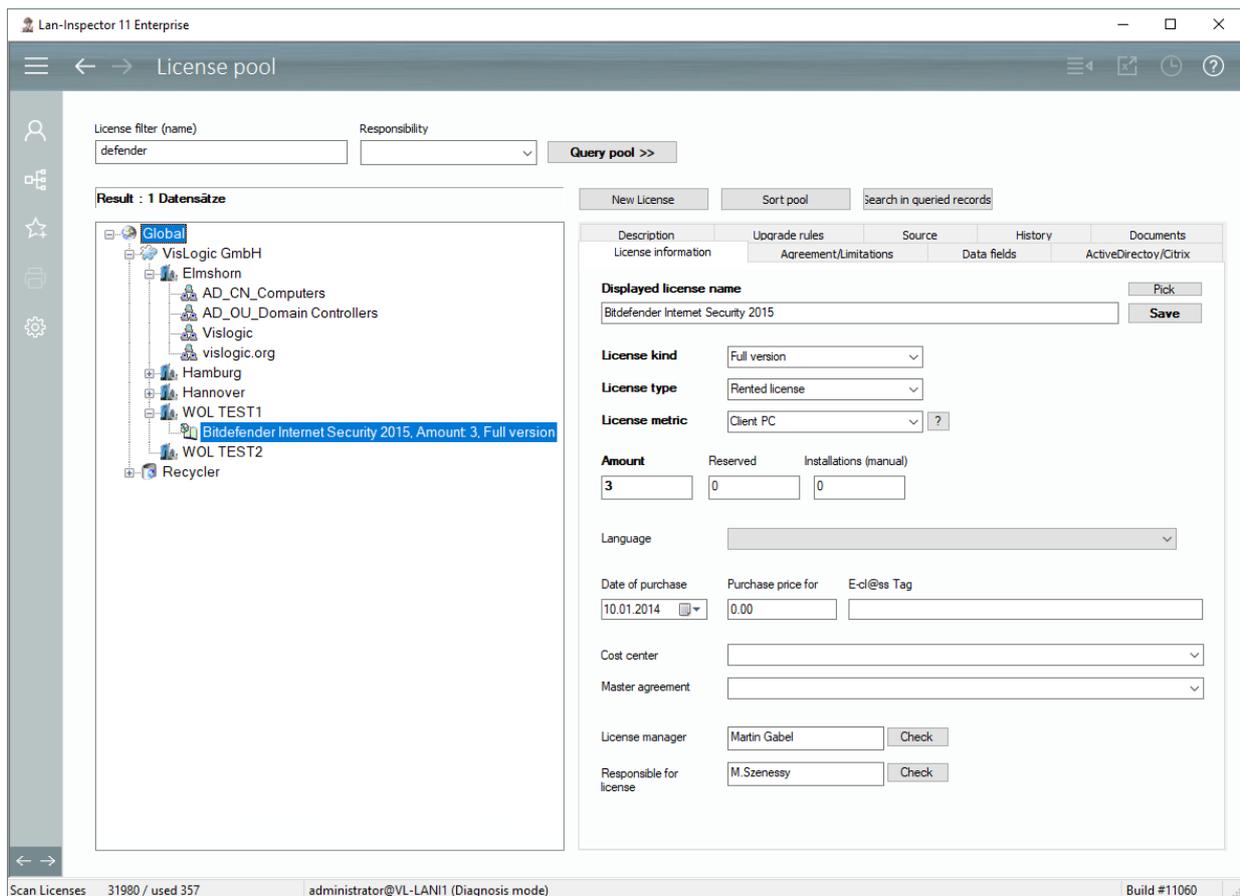
6.5 License and Software Management

This main branch of the menu tree contains all functions regarding the management of licenses and software installations, as well as additional tools to analyze and report your current license situation.



6.5.1 License Pool / License Entry

After you have already scanned your network, and after there is software data in your data base, you can advance into the license pool by selecting “**License + Software Management/License Pool**”. You enter all licenses you have in your company into the license pool. Whatever exists on paper or from your accounting, you can keep a record in the pool for it.



To display available licenses, you have to query the pool first. You can directly click on “Get Pool >>” or use the filter field for this query before.

The following sections describe the process of creating and editing a license record. The pool displays the tree of locations, where the licenses can be associated with available groups or sub-groups.

If you select a license in the tree, you will see the complete license record on the right side spread over several tab dialogs. If you select a group that has licenses as child items, the list of associated licenses will appear on the right side. You can multi-select items and drag them to other branches of the location tree if necessary.

The license pool is supposed to map your real purchases of licenses. If you have a complete sum of 100 Office licenses, consisting of two purchases of licenses, one with 20 and one with 80 licenses, you should enter two license records correspondingly. This method helps getting most of your real license situation by using upgrades, downgrades mixed with normal license usage and other possible clues. In license balances, you have a very transparent view on how the numbers are explained.

6.5.1.1 License Pool Queries

The pool offers the possibility to query available licenses. If you have entered license records already, but no license is displayed, you need to perform a query. In order to focus on special licenses from the pool, you can use the simple text filters "**License filter**", or display only those licenses that have a responsible person. You can choose that person from the drop-down list. Click on "**Get Pool >>**" to query the licenses. They will be displayed in the tree of locations.

Additionally, you can perform special license queries. In order to do that, click on "**Search queried records**".

6.5.1.2 Search In Queried Records

This function offers a flexible full text search, including and / or operations. You can either search in the stock of available licenses and/or reduce the resulting records by querying their optional time limitation. The result will be displayed in the list of licenses already known by clicking on a group. You can multi-select from the list and drag the items to other branches if necessary.

Search in queried records

Query the selected branch

Global Browse

Search (/and/ = and, /or/ = or)

Bitdefender

Case sensitive search

Search in license name / license description

Get all license records from server for this query

Search in data fields

Do not search in data fields

Search in all data fields

Search in some data fields (separated by comma)

Validation

Search in all licenses

Search in time limited, running licenses

Search in time limited, expired licenses

Change column layout Cancel Start query >>

Important: The query will have an effect only on the records that have been queried before. If you want to do your query with these parameters on the whole license stock, activate “**Get all license records from server for this query**”.

If you want, you can specify the output columns of the result list. Click on “**Change column layout**”.

6.5.1.3 Changing the Column Layout

The results of your queries, which is a list of license records, will be displayed on the right side of the license pool. As almost every list in the Lan-Inspector, this list can be pushed to Excel by clicking the **Excel button in the top bar**. You might want to add additional information from the records to that list by adding columns. Select the columns you want and click them to the right by using “>>”. To remove a column, select it and click on “<<”.

Change column layout

You can define a column configuration for the current output. Please choose the wanted columns and their order:

ID	Column name
3	License kind
4	License type
5	License metric
6	Amount
7	Reserved
8	Installationen manuell
9	Language
10	Date of purchase
11	Purchase price
12	E-cl@ss Tag
13	Cost center
14	Master agreement

>> <<

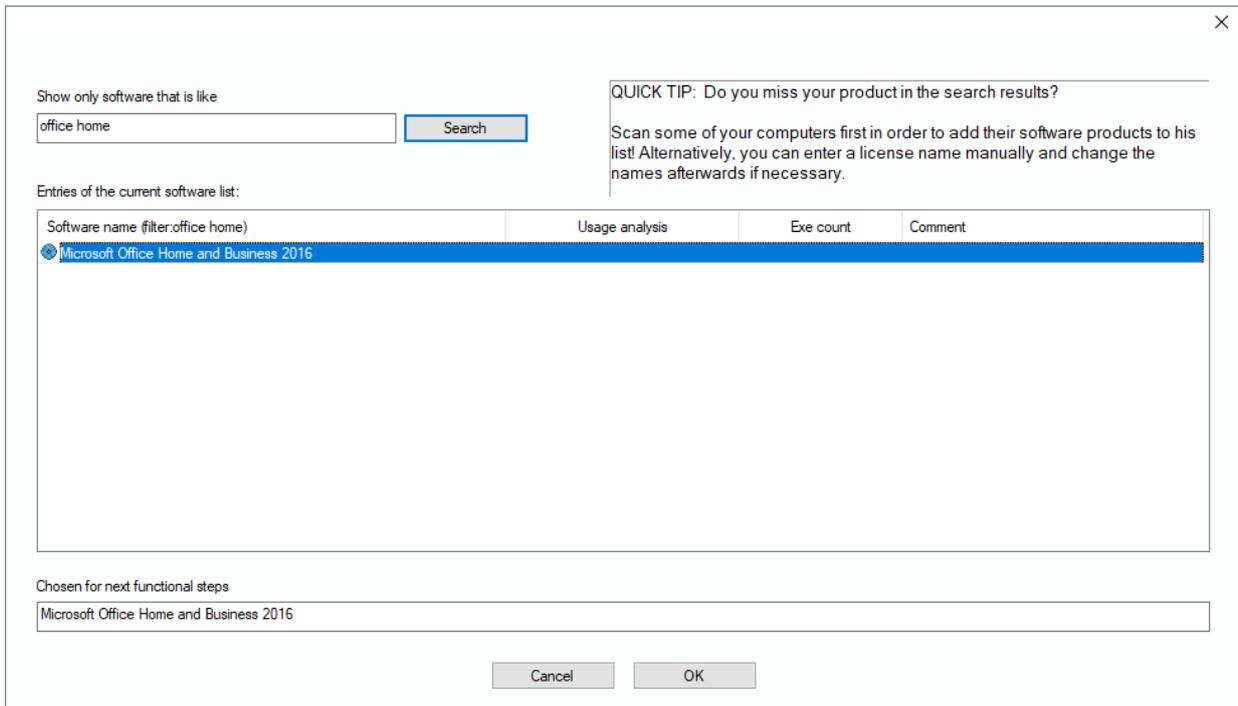
ID	Column name
0	ID
1	License name
2	Path

Up
Down

Exit

6.5.1.4 Create a new License

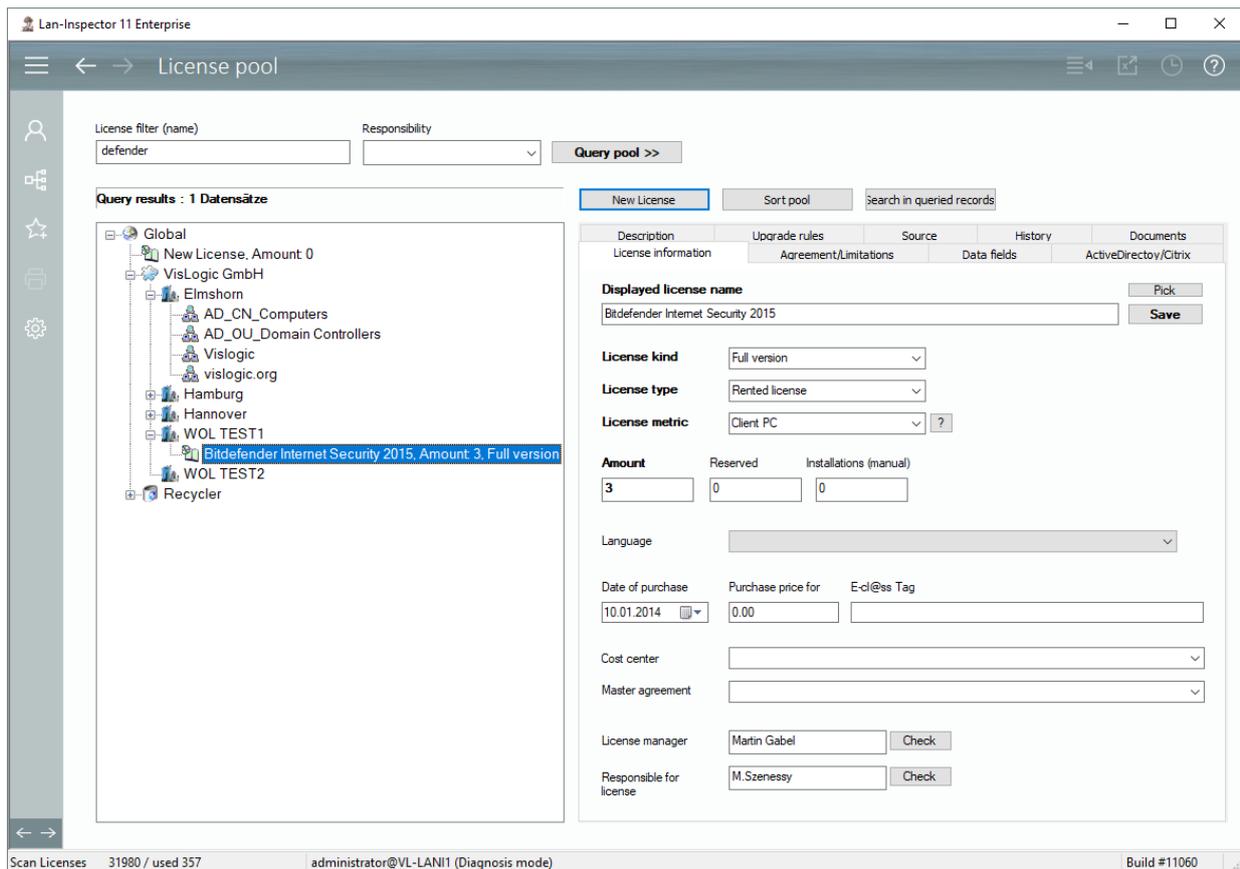
Switch to the license pool, select a location for the new license in the tree and click on “New License”. The new license is added and ready for additional information, starting with its name. To make it easier, the software catalogue of known software appears. Use the filters to find the correct product, select it and click on “OK”.



Please note that you can have more than one license record for the same license, for example you can have 120 Office licenses, split into two license records, one with 20 and one with 100. Just as a reminder, the license pool reflects the financial perspective and contains the purchased license packages. In license balances the number of equal licenses will be summed up, depending on the used license metric.

6.5.1.5 License Properties

As soon as you have selected a license, its properties will appear on the right side of the window, sorted into several tab dialogs.



This is the main page for entering the name and the basic properties, such as count, reserved and manual installations. Count refers to the number of licensed devices (metric “Client PC”). However, you can also use “Count” in other metrics. “Reserved” means that the Lan-Inspector will subtract a manually entered reserve from the existing licenses before comparing count with stock. This field applies for Citrix Terminal server Support described below. “Manual installations” allows you to provide an installation count that is not available via network scans. Additional properties you can maintain here are, for example cost center, master agreement, product responsibility, etc.

6.5.1.6 License metrics

Metrics describe the mechanism for licensing a software product. Different licensing models such as “Named User” usually use their own license servers in the background technically making sure that the licensing is correct. Next, you will find a description of metrics with functions available in the Lan-Inspector. For Citrix models, a different dialog is available (see below).

Description	Upgrade rules	Source	History	Documents
License information	Agreement/Limitations	Data fields	ActiveDirectory/Citrix	
Displayed license name				Pick
Bitdefender Internet Security 2015				Save
License kind	Full version			
License type	Rented license			
License metric	Client PC			
Amount	Res	<ul style="list-style-type: none"> Client PC Named User Concurrent User Concurrent (Auto) Enterprise (Auto) ADS-Group/Citrix CPU Count Cluster Freeware Shareware Other 		
3	0			
Language				
Date of purchase	Purchase price for	Express tag		
10.01.2014	0.00			

6.5.1.7 „Client-PC“

The most popular license metric is “Client-PC”. That means the installation of software on a computer requires one license. This “Client PC” metric is the easiest to report. It adds the number of available licenses from the license record to other license records with the same license name. Then it compares the sum with the installation count.

6.5.1.8 „Named User“

It’s a license that requires an association of named (windows-) users to the installations. This metric is listed in the Lan-Inspector but cannot be reported, yet. Usually software producers using this metric provide an own technical solution that manages the license usage. If you deposit a “license count” number, this metric will be handled like “Client-PC”.

6.5.1.9 „Concurrent User“

This license metric is used if only a specified number of users is allowed to use the product simultaneously. This metric is listed in the Lan-Inspector but cannot be reported, yet. Usually software producers using this metric provide an own technical solution that manages the license usage. If you deposit a “count” number, this metric will be handled like “Client-PC”.

6.5.1.10 „Concurrent (Auto)“

This license metric is used if only a specified number of users is allowed to use the product simultaneously. “Auto” means that the number of found installations will be automatically entered in the license record as the available number. This metric avoids being under-licensed. Usually software producers using this metric provide an own technical solution that manages the license usage.

6.5.1.11 „Enterprise (Auto)“

This license allows an unlimited number of installations. Deposited functionality: Comparison number of installations <-> number of licenses. The number of found installations will be used automatically as the available license count, because an enterprise agreement exists.

6.5.1.12 „CPU Count“

The field „Count“ refers to the count of licenses physical processors. Deposited functionality: none yet. If you deposit a “count” number, this metric will be handled like “Client-PC”.

6.5.1.13 „Cluster“

The field „Count“ refers to the number of licensed member servers. Deposited functionality: none yet. If you deposit a “count” number, this metric will be handled like “Client-PC”.

6.5.1.14 „Freeware“

License for an unlimited number of installations. Deposited functionality: Comparison number of installations <-> number of licenses. The number of found installations will be used automatically as the available license count, because Freeware doesn't require a purchased license.

6.5.1.15 „Shareware“

License for installations on client PCs. Deposited functionality: Comparison number of installations <-> number of licenses. Needed for this metric is the field “Count”. It will be handled like “Client PC”, because after a time limit has expired, registration fees are pending.

6.5.1.16 „Other“

License for installations on client PCs. Deposited functionality: Comparison number of installations <-> number of licenses.

6.5.1.17 Agreement / Limitation / Cancellation

Here, you can specify facts about the agreement associated with this license record. You can deposit start date and optionally an expiry date. If further license fees need to be payed, you can set a date for this point of time as well. If an agreement renews itself, you can tell it here, also if, a cancellation is necessary. If this is the case, you can also set an e-mail reminder that tells you in time when you should consider cancelling. Please note, that e-mail functions only work if you have entered a working sendmail configuration.

Description	Upgrade rules	Source	History	Documents
License information	Agreement/Limitations	Data fields	ActiveDirectory/Citrix	

Displayed license name

Bitdefender Internet Security 2015

License agreement no.(int) Bit-2014

License agreement ?

Cost per anno 20

Start date Expiry date Payment due on

04.04.2018 19.02.2016 04.04.2018

Agreement renews automatically

Cancellation necessary

Cancelation 3 weeks before runtime end

Special notes (cancelation) No cancelation needed
Allways / no limitation
5 days before runtime end
1 week before runtime end
3 weeks before runtime end
1 month before runtime end
3 months before runtime end
Other - review description

E-mail on expiry pon@vislogic.net

Reminder for cancelation pon@vislogic.net

Days before 14 Sendmail configuration

6.5.1.18 License Data Fields

Every license record has six fixed data fields and unlimited dynamic data fields where you can store additional information. You can create and name new fields which will be available to all license records afterwards.

Click on the line you want to edit and press the button “Edit”. A window appears that allows you to make the changes. You can also globally change the name of the field here directly by clicking the button. That will activate the possibility to edit the name of the field (see also 6.5.7 Change License Data Fields | „Lizenz+Softwaremanagement/Mehr/Lizenzfeldnamen bearbeiten“).

Description	Upgrade rules	Source	History	Documents
License information	Agreement/Limitations	Data fields		ActiveDirectory/Citrix

Displayed license name

Bitdefender Internet Security 2015

Field name	Entry
ID no	218292
Buyer	MaSzen
Field3	...
Field4	...
Commission	88291
Field6	...

New Change Edit Delete

6.5.1.19 Link Active Directory for Citrix / Terminal Support

If the Lan-Inspector has sufficient access rights (scan engine user account, see 4.2.2.2 Enterprise Edition), it can import information from the Active Directory Services. There are many Citrix solutions that license users who are members of a specific ADS group. The Lan-Inspector can

count the members of a specific group and use this number in the license record in “reserved” if the license record is activated for the ADS link. If this link is active, the Lan-Inspector will count the number of the ADS group before every license balance is calculated.

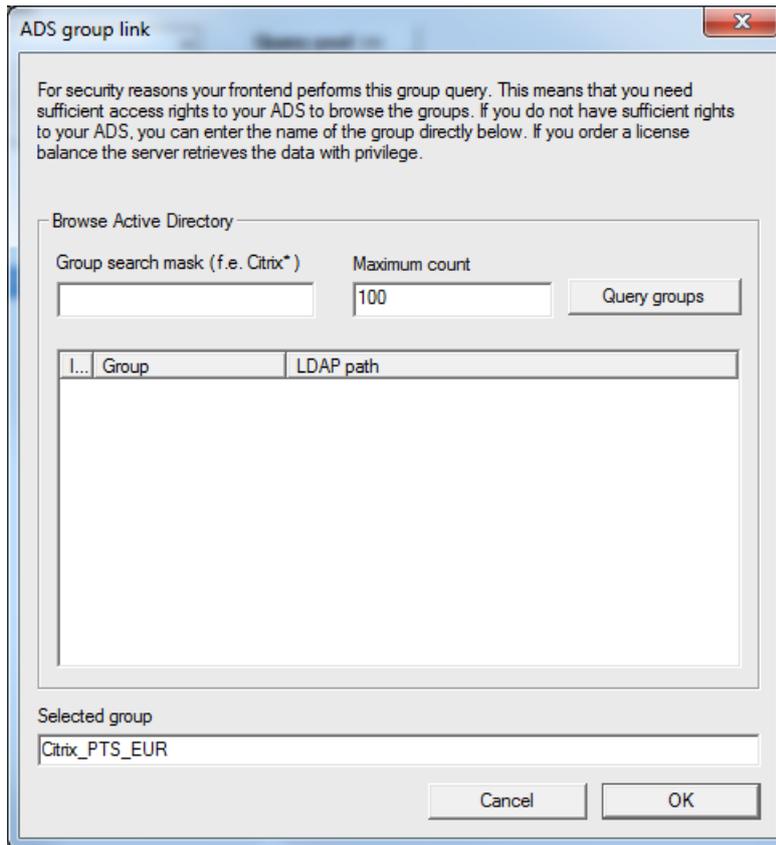
The screenshot shows a software interface with several tabs and controls. At the top, there are three buttons: "New License", "Sort pool", and "Search in queried records". Below these are five tabs: "Description", "Upgrade rules", "Source", "History", and "Documents". Underneath the tabs are three sub-sections: "License information", "Agreement/Limitations", and "Data fields". The "Documents" tab is highlighted in yellow and contains the text "ActiveDirectory/Citrix".

Below the tabs, there is a section titled "Displayed license name" with a text box containing a colorful, noisy pattern. Underneath this is a checked checkbox labeled "Activate realtime link to ADS". Below the checkbox is a paragraph of text: "License balances retrieve the amount of users of the chosen ADS group. This amount is reconciliated with the available license count."

There are two buttons: "Search ADS group" and "Delete". Below these is a text input field containing the text "Citrix_PTS_EUR".

At the bottom, there is a label "Amount of goup members" (note the typo) next to a text input field containing the number "8", and a button labeled "retrieve now".

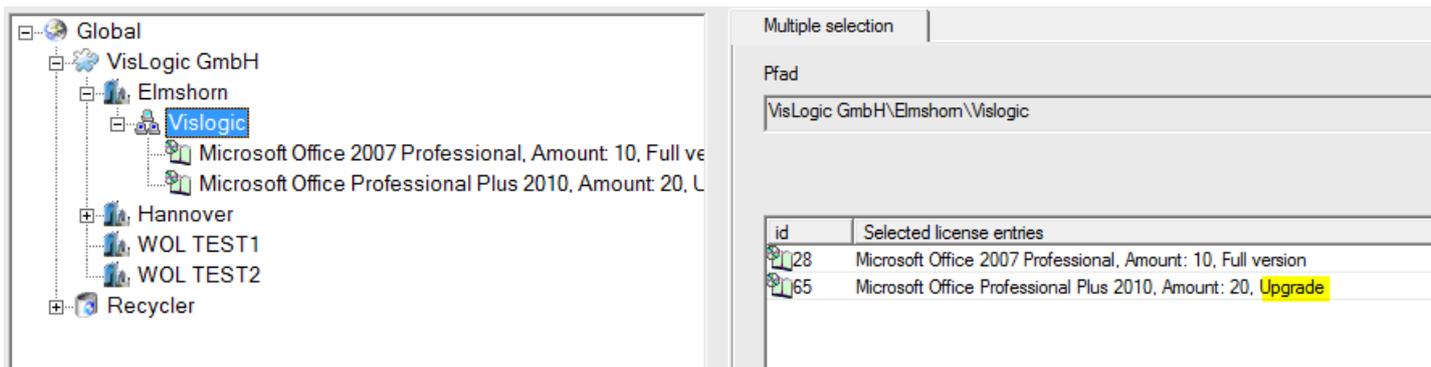
When creating license balances, the Lan-Inspector retrieves the number of members of the specified group. You can search the ADS for the proper group by clicking on “Search ADS group”. Please note that your windows account needs sufficient access rights to connect to the ADS.



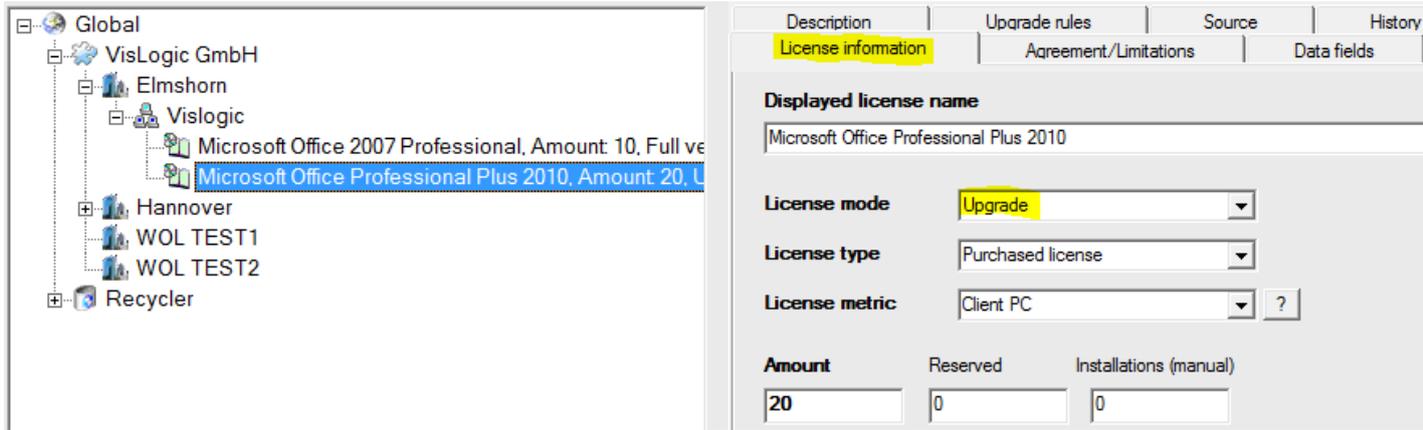
6.5.1.20 License-specific Upgrade Rules

The different software producers follow most various upgrade policies. There is a main principle though. Usually an upgrade license is worth nothing without the proper base license. Only the set of a base license and the proper upgrade license build a full license of the newer product version. This is also the case with cross upgrade licenses. You need a base license (from one producer) and an upgrade license from the upgrade provider. What you need to do is a way of mapping this principle in a license record. To demonstrate this, please have a look at the following picture:

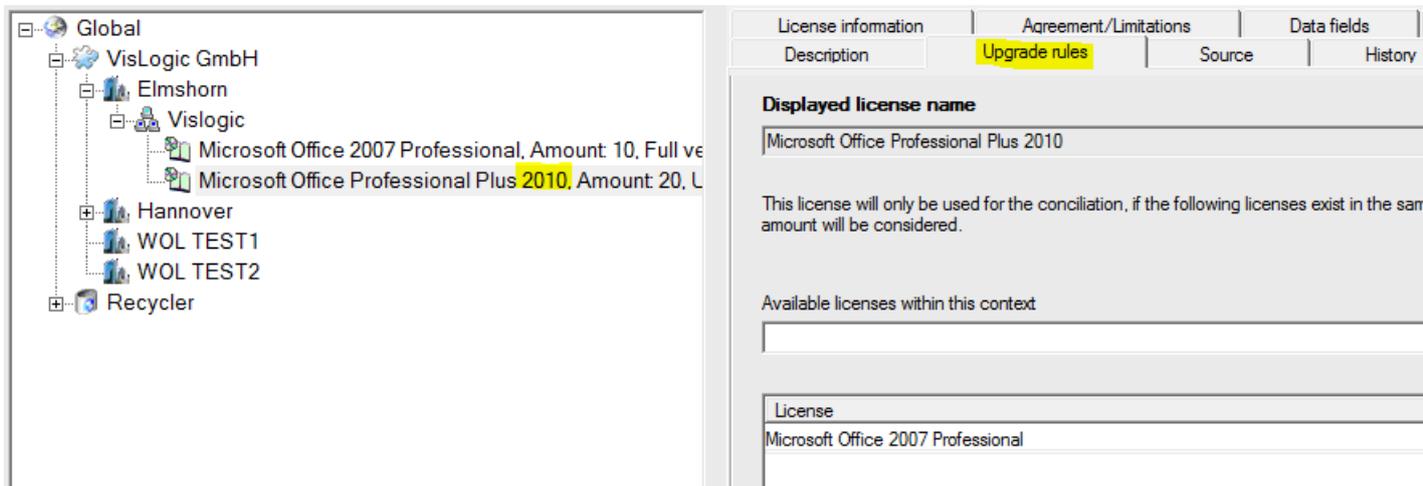
The group „VisLogic“ contains two license records:



The first package is a set of ten Office 2007 Professional licenses and the second one is an Office Professional Plus 2010 including 20 licenses. Unfortunately, Office 2010 is merely an upgrade requiring the 2007 Professional Edition as base license. As a result, the license balance will show only 10 full version licenses for 2010 Professional Plus available, because only 10 base licenses are present.



You can mark the Office Professional Plus 2010 license as being an upgrade license in the main information tab of the record. Then you switch to the “Upgrade rules” tab and add “Microsoft Office 2007 Professional” as being the needed base license. You can also add other products of possibly other producers here to build cross upgrades. Note that these two records need to be in the same branch / group.



6.5.1.21 License Proofs

Below „Documents“ you can add up to two file paths to documents that can act as a proof of license (scanned invoice or certificates). If you link the files with network (UNC) paths, they can be accessed in the network from any remote frontend.

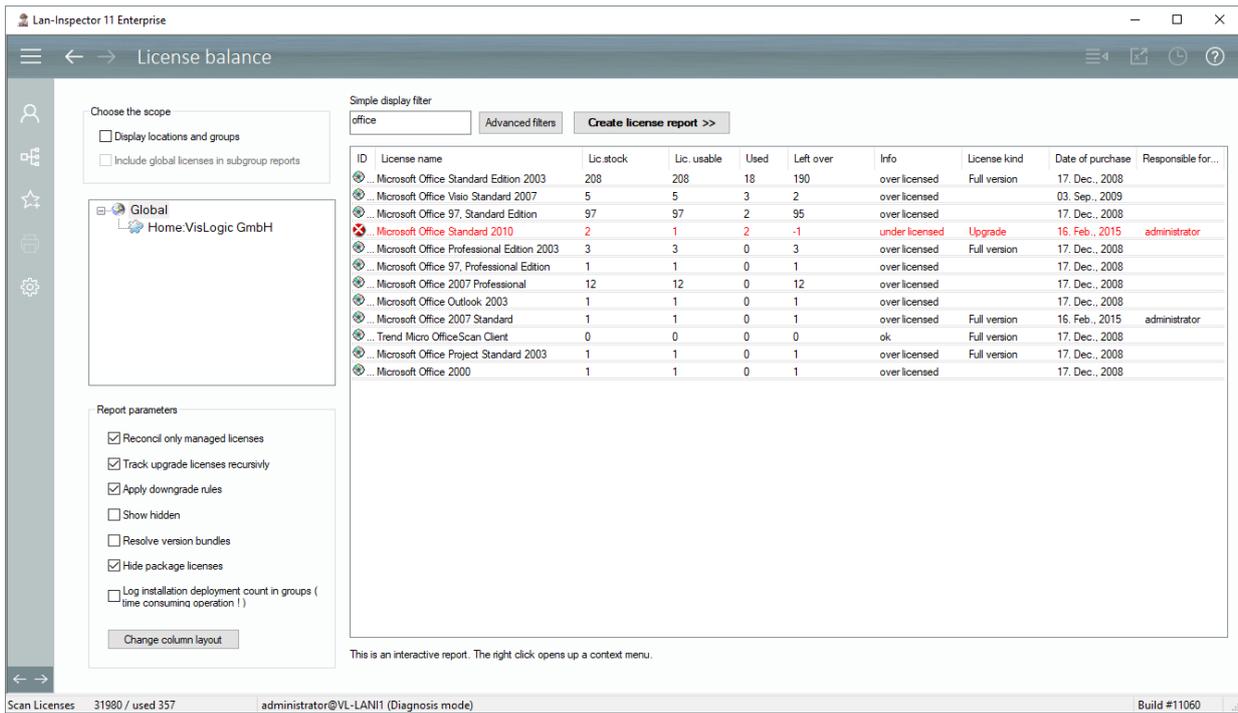
The screenshot shows a software interface with a tabbed menu at the top. The tabs are: License information, Agreement/Limitations, Data fields, ActiveDirectory/Citrix, Description, Upgrade rules, Source, History, and Documents (which is highlighted in yellow). Below the tabs, the 'Displayed license name' is 'Microsoft Office Professional Plus 2010'. A text box contains instructions: 'Here you can specify file paths to PDF- or scan documents, such as certificates and/or copies of invoices. Please note, that you have to specify network (UNC) paths, if other Lani admins are supposed to open the documents. Opening the document is only successful, if the file extension is linked to a corresponding viewer software installed on your PC.' Below this are two input fields for 'First path' and 'Second path', each with 'Browse' and 'Open' buttons.

6.5.1.22 Source / History / Description

Using these tab dialogs, you can accordingly deposit further information in the license record.

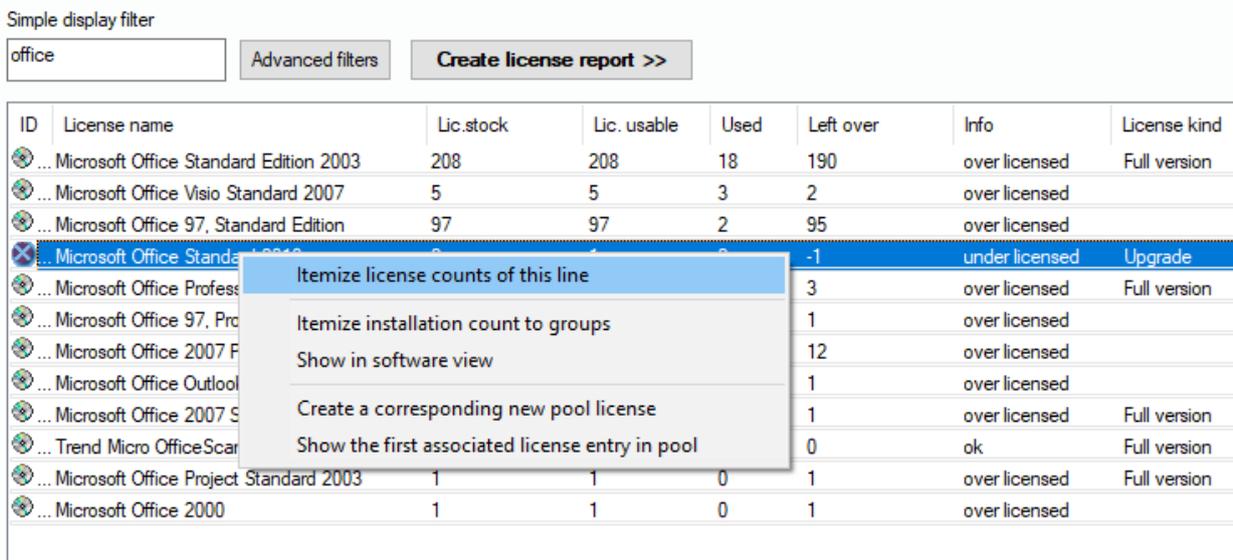
6.5.2 License Balance

After you have scanned your network and found out about the as-is-state, and after you have entered licenses, you can create license balances. Follow the menu to **“License + Software Management/License Balance”**.



In the left corner you will recognize the tree of locations. Choose the scope and click on **“Create license report >>”**. If you like, you can use a filter to focus on special licenses like “office”.

The list below will show the results of the calculation. The report you are seeing is interactive. You can use the right mouse button to open further options.:



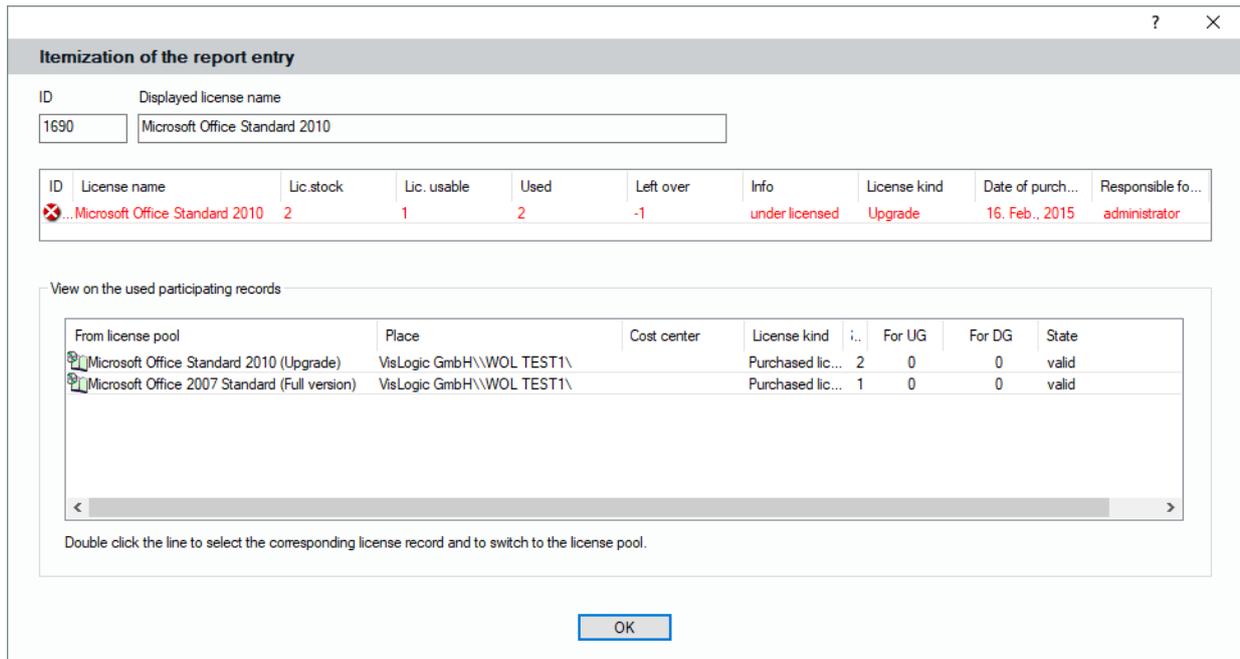
6.5.2.1 Itemize license counts of this line

As told before, the license pool contains license records from the perspective of the purchaser. In the license balance, all licenses will be calculated adequately for the comparison. This can lead to

different counts of licenses than you know from the pool. Using the itemization function, you can display what license records the numbers derive of.

„Microsoft Office Standard 2010“

Right-click on this entry and select the itemization function. The upcoming window shows quickly how the numbers can be derived:



The picture shows clearly how the reported license state can be explained. The Office Standard 2010 license has 2 licenses, but it is an upgrade license. To be a valid and legal full license, it needs the same number of base licenses. However, only 1 base license is available. Therefore, the final license balance shows only 1 full license that faces 2 installations. The example shows under-licensing. You can double-click on one of the license records to jump directly to the corresponding entry in the license pool.

6.5.2.2 Itemize Installation Count to Groups

The second context function helps show how many installations of a product / of a license are used in the different groups of the location tree. The example of „Office Standard“, which is installed only twice on PCs, shows the following picture:

Simple display filter
office Advanced filters **Create license report >>**

ID	License name	Lic.stock	Lic. usable	Used	Left over	Info	License kind	Date of purchase
...	Microsoft Office Standard Edition ...	208	208	18	190	over licensed	Full version	17. Dec., 2008
...	Microsoft Office Visio Standard 2...	5	5	3	2	over licensed		03. Sep., 2009
...	Microsoft Office 97, Standard Edi...	97	97	2	95	over licensed		17. Dec., 2008
...	Microsoft Office Standard 2010	2	1	2	-1	under licensed	Upgrade	16. Feb., 2015
...	Microsoft Office Professional Editi...							17. Dec., 2008
...	Microsoft Office 97, Professional							17. Dec., 2008
...	Microsoft Office 2007 Professiona...							17. Dec., 2008
...	Microsoft Office Outlook 2003							17. Dec., 2008
...	Microsoft Office 2007 Standard							16. Feb., 2015
...	Trend Micro OfficeScan Client							17. Dec., 2008
...	Microsoft Office Project Standard							17. Dec., 2008
...	Microsoft Office 2000							17. Dec., 2008

Deployment in locationtree: 2 -> ' Microsoft Office Standard 2010 '

Location path of the current report
Global\

Respected hidden entries
 Respected version bundles
 Respected package licenses

Global

- VisLogic GmbH
 - WOL TEST1: 1
 - WOL TEST2: 1

6.5.2.3 Report Parameters for Individual Output

The Lan-Inspector offers various parameters to customize your license balances. Next to choosing the scope in the tree of locations, there are other options described in the next sections.

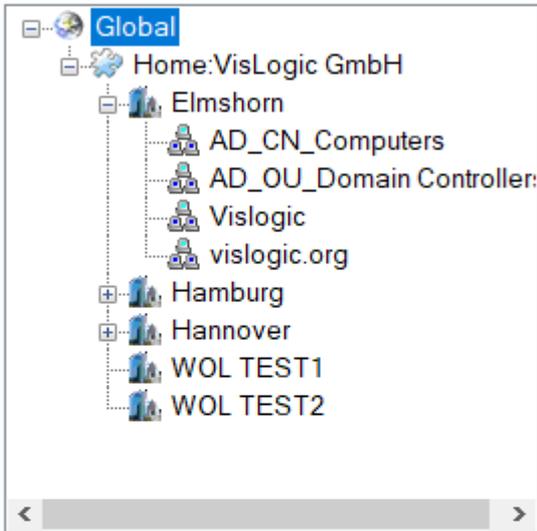
6.5.2.4 Display locations and groups

Although you can display the complete tree of locations by activating this option field, it is recommended to calculate your license balances for the whole company (global). You can reconcile installation numbers from single groups, but in this case the licenses have to be associated to these groups then. Usually the license records are entered at "Gobal" or "Home".

If you reconcile group reports and want to include global license records, you can activate the second option **"include global licenses in subgroup reports"**.

Choose the scope

- Display locations and groups
- Include global licenses in subgroup reports



Report parameters

- Reconcil only managed licenses
- Track upgrade licenses recursively
- Apply downgrade rules
- Show hidden
- Resolve version bundles
- Hide package licenses
- Log installation deployment count in groups (time consuming operation !)

Change column layout

6.5.2.5 Reconcil only managed licenses

If you activate this option and create a license balance, the report only lists those products a license records exists correspondingly in the license pool. Usually the licenses, you have created license records in the pool for, are those ones that you focus on. If you de-activate this option and create a balance, a huge comparison of all found installations will be created.

6.5.2.6 Track upgrade licenses recursively

Activate this option if you want to use upgrade algorithms that spider the upgrade rules of all license records. The recursive tracking allows the usage of complex upgrade structures with multiple upgrade and base constructions.

6.5.2.7 Apply downgrade rules

In addition to the upgrade functionality, the Lan-Inspector can also calculate your downgrade rules within the license balance. Activate this option if you want the algorithm to include downgrades. The rules for downgrades are handled in an own editor dialog (see 6.5.6 Downgrade Rules | „Menu: License + Software Management/More/Downgrade rules “).

6.5.2.8 Show hidden / Resolve version bundles

As in other dialogs as well, you can activate an option that shows all software in the balance that is hidden by configuration. The same applies for bundles. Activate the option for resolving bundles to do exactly this within the calculation. All members of the bundles will be looked upon as single products then, see also 6.4.2 and 6.4.1 | „Menu: Inventory Management/More/Filters and Bundles/Hidden entries“ and „Menu: Inventory Management/More/Filters and Bundles/Bundled Software entries”.

6.5.2.9 Hide package licenses

Package licenses do a lot to clean up your lists and reports by removing all entries that belong to a main license. There are so many installation entries on computers that are installed and belong to a single product. Hiding package licenses hides those additional products from being reported in your license balances, see 6.5.5 Manage Package Licenses | „Menu: License + Software Management/More/Manage package licenses“.

6.5.2.10 Log installation deployment count in groups

If you have some time, you can add a calculation of installation deployment for all positions in the license balance. When the calculation is finished, you can switch each line by clicking the “ + “ at the left side. The line will unfold and display the deployment in groups.

Important: If you have many computers and many software products, be prepared for a time-consuming task!

Simple display filter

office Advanced filters **Create license report >>**

ID	License name	Lic.stock	Lic.usable	Used	Left over	Info
1...	Microsoft Office Standard Edition 2003	208	208	18	190	over licenser
9...	Microsoft Office Visio Standard 2007	5	5	3	2	over licenser
1...	Microsoft Office 97, Standard Edition					?
1...	Microsoft Office Standard 2010					
1...	Microsoft Office Professional Edition 2003					
1...	Microsoft Office 97, Professional Edition					
1...	Microsoft Office 2007 Professional					
1...	Microsoft Office Outlook 2003					
1...	Microsoft Office 2007 Standard					
1...	Trend Micro OfficeScan Client					
1...	Microsoft Office Project Standard 2003					
1...	Microsoft Office 2000					

Deployment in locationtree: 3 -> ' Microsoft Office Visio Standard 2007 '

Location path of the current report

Global\

Respected hidden entries
 Respected version bundles
 Respected package licenses

```

graph TD
    Global --> VisLogic[VisLogic GmbH]
    VisLogic --> Hannover[Hannover]
    Hannover --> Clients[Clients: 2]
    Clients --> Server[Server: 1]
  
```

6.5.2.11 Change Column Layout

As known from other views, you can also change the column the license balance report will have after its calculation. Click on the corresponding button before you create the license balance. The dialog appears where you can add or remove columns as well as change their order appearance by pushing them up or down. For your final layout, you can select any field of the license records you like.

Change column layout

You can define a column configuration for the current output. Please choose the wanted columns and their order:

ID	Column name
3	For UG
4	For DG
9	Language
11	License type
13	Kumulierte Kosten
14	Cost center
15	Master agreement
16	E-cl@ss Tag
17	Category
18	Relevancy
19	Package name
20	Benutzerdef.

>> <<

ID	Column name
0	ID
1	License name
2	Lic.stock
5	Lic. usable
6	Used
7	Left over
8	Info
10	License kind
12	Date of purchase
34	Responsible for license

Up
Down

Exit

6.5.2.12 Producer Specific License Balances

You can use the simple display filter in order to focus on the products of a special producer like Microsoft. The result may look like the one in the picture. If you need individual reports like balances of products with a special responsible person, use the button „Advanced filters“.

Simple display filter

Microsoft Office Advanced filters **Create license report >>**

ID	License name	Lic.stock	Lic. usable	Used
1...	Microsoft Office Standard Edition 2003	208	208	18
9...	Microsoft Office Visio Standard 2007	5	5	3
1...	Microsoft Office 97, Standard Edition	97	97	2
1...	Microsoft Office Standard 2010	2	1	2
1...	Microsoft Office Professional Edition 2003	3	3	0
1...	Microsoft Office 97, Professional Edition	1	1	0
1...	Microsoft Office 2007 Professional	12	12	0
1...	Microsoft Office Outlook 2003	1	1	0
1...	Microsoft Office 2007 Standard	1	1	0
1...	Microsoft Office Project Standard 2003	1	1	0
1...	Microsoft Office 2000	1	1	0

6.5.2.13 Advanced filters for License Balances

The advanced filters help to create very individual license balances that may focus on licenses of special responsible persons or any other kind. You can use any filter text you like and specify in what columns the search will take place, search only in software name, in all columns or in specified columns you can set in the list at the bottom.

Filter options

Here you can set search criteria that need matching to display a report entry.

Filtertext | /and/ /or/ /not/
Martin/and/Gabel

Search only in the software name column
 Search in all columns
 Search in specified columns (depending on the column configuration)

Specify search columns

Available columns	Search columns
I.. Available columns	I.. Search columns
<input checked="" type="checkbox"/> Lic. usable	<input checked="" type="checkbox"/> Responsible for license
<input checked="" type="checkbox"/> Used	
<input checked="" type="checkbox"/> Left over	
<input checked="" type="checkbox"/> Info	
<input checked="" type="checkbox"/> License kind	
<input checked="" type="checkbox"/> Date of purchase	

Cancel OK

6.5.2.14 Deposit individual Parameters as a Report Template

After you have set all individual parameters, you can create the license balance. When it is ready you can save this report as a template by clicking on the report button in the top bar. If you do this, all your parameters, including options, search filters, column layout will be saved as a report template. This way you can execute exactly the same report later on by only a few clicks (see 6.8.2 Deposited Reports | „Menu: Report Management/Deposited Reports“).

6.5.3 Managed Software Products

This extensive complex of functions is only available in the Professional and in the Enterprise Editions.

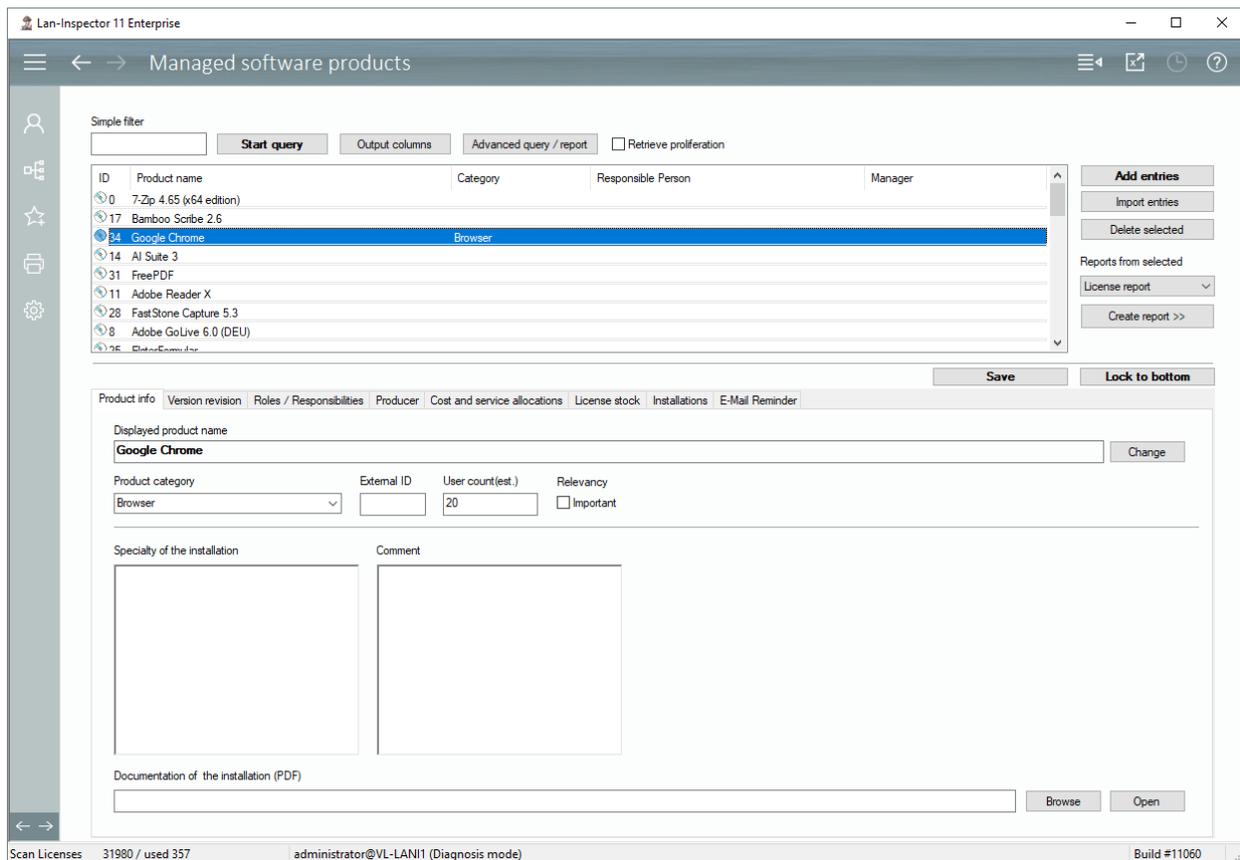
The Lan-Inspector hosts a catalogue of software products which gets larger and larger the more computers you scan and the more products are discovered. You cannot add information to entries of this catalogue though. If you need to enter additional information to certain products, you can add them to the list of “managed software products”. Here, you can store a large set of information along with the managed products which enables several new functionalities.

You can define the content of this extended catalogue arbitrarily. If you have special products that have to be kept in view from the license perspective or from version politics, you can add them here. You can also associate “cost-service points” to establish internal cost-service calculation for software products in your company.

The record of a managed product contains information about the product itself, the wanted versioning, product categories, information about revision, responsibilities, information about the producer and other data.

To manage the products, you have a comfortable query-based GUI that allows to get record sets from the server by query and make changes to single records.

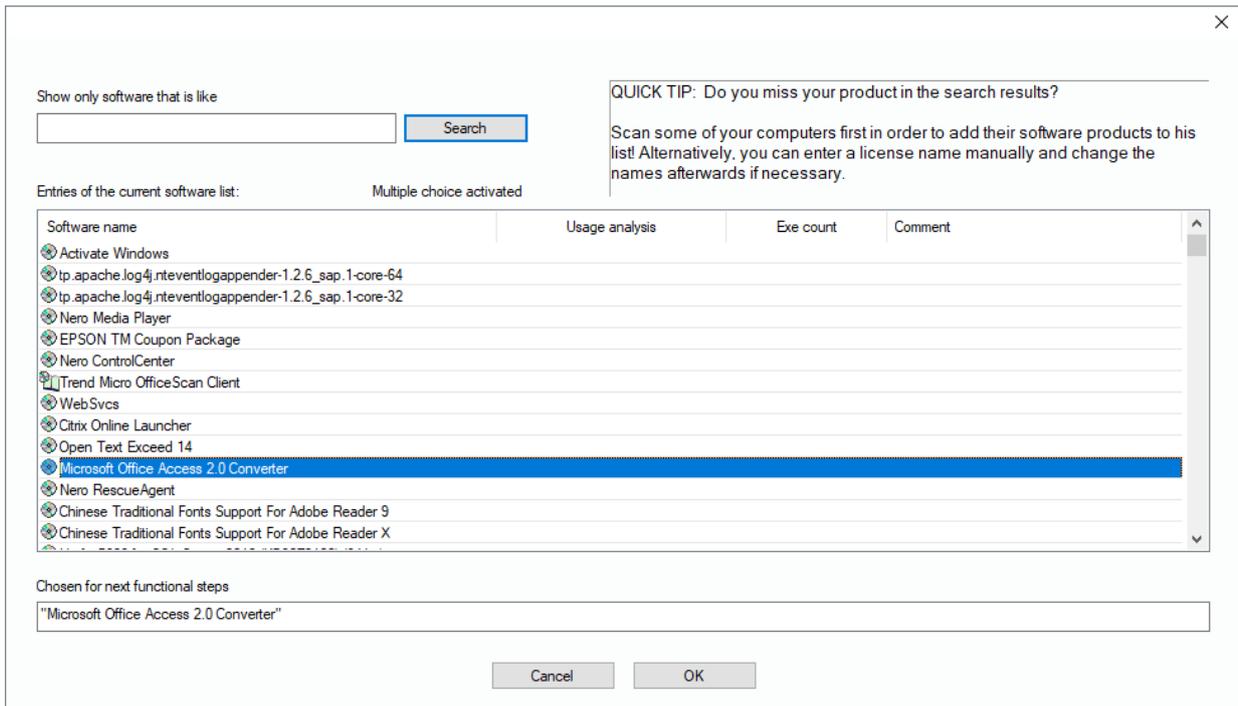
If you select one entry from the list of queried software records, at the bottom of the window tab dialogs appear that contain the corresponding data that can be edited there.



6.5.3.1 Add a Managed Software Product

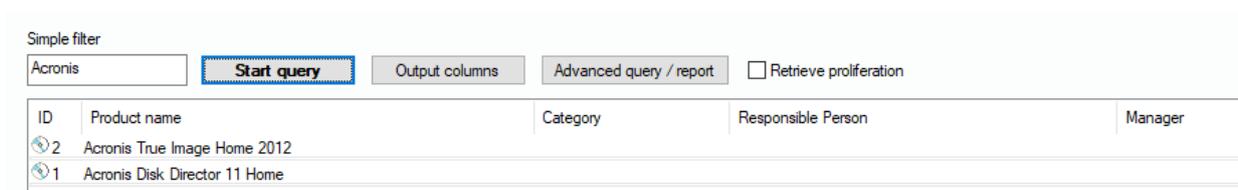
Click on “Add entries” if you want to browse the internal catalogue for entries that will get an upgrade to be managed products. You can also enter a product name manually if it is not part of the internal catalogue, yet.

The catalog selector allows multiple choice if you need to add more than one entry at the same time.



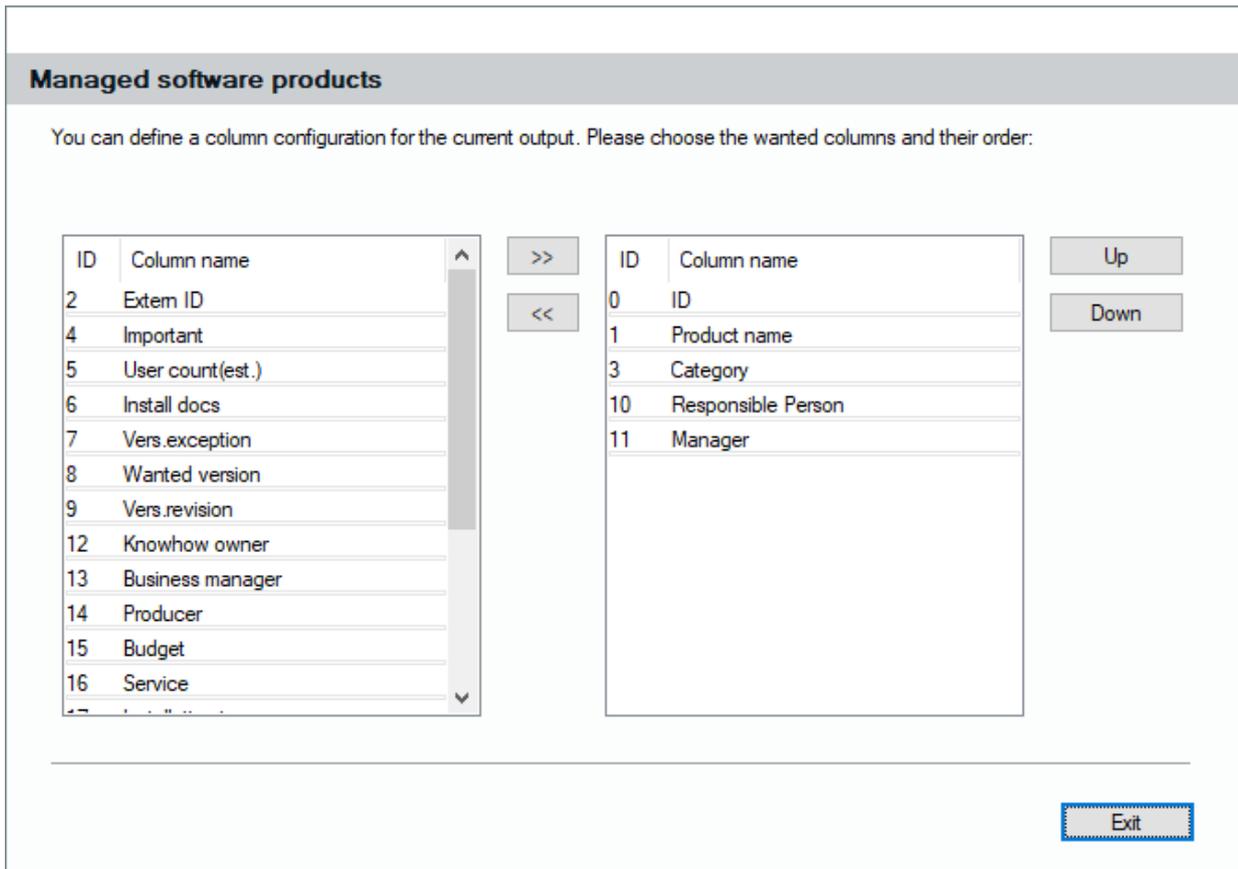
6.5.3.2 Query Managed Products

Enter a name fragment into the field below “simple filter” and click on “start query”. All managed products that match the pattern will be queried and displayed in your list. You can also use the logical operators known from other queries like /and/ /or/ and /not/. This can help show products of one or more producers. If you don’t use the filter and just click on “Start query”, all existing records on the server will be displayed in your list.



6.5.3.3 Output Columns (Column Layout)

Clicking on this button invokes the already known dialog for changing the column appearance and order. Choose your wanted columns from the list and click them “>>” into the list you want to use for the query. Change the order of single columns by pushing them “Up” or “Down”.



6.5.3.4 Retrieve proliferation

If you activate this option before you start the query, the Lan-Inspector will calculate how many installations exist in your network for each queried record.

6.5.3.5 Advanced Product Query

The following picture shows the dialog that helps you create an advanced query on the managed software products. You can enter a search string at the top which accepts the logical operators /and/ , /or/ and /not/ . You find a description of the possible options in the following sections.

Advanced product query/report

Search string (/and/ /or/ /not/)

Microsoft/or/Adobe

Update statistics on query (will be slower)

Search in

- Software name
- Field 'Responsible for license'
- Field 'Licensemanager'
- Producer info
- User defined data
- Field 'Wanted version'
- Field 'Most common version'

Conditions

- Search only in 'Important' record
- Search in all records
- Search only in revision exceptions
- Exclude revision exceptions from searching

Wanted version failed on n % of the installations (n%)

Last revision is older than n weeks

Save report Start query

6.5.3.6 Update statistics on query

If you activate this option, all statistics concerning the versions of the queried products will be updated automatically. The process collects all versions of the currently processed software product on all computer records of the data base. These version specifications will be available in the drop-down list in the Product info tab dialog, see 6.5.4.1 Product Info Tab.

6.5.3.7 Search In

The search using the string pattern will take place in the fields you activate here. If you only want to search in the name of the software, just activate the first option. If you additionally want to search in other fields like responsible persons, activate this option as well. In this case, you should enter the name of the person in the search field. This way, you'll get a list of all products a specified person is responsible for.

6.5.3.8 Conditions

You can furtherly narrow down the queried record sets by entering conditions. If you activate the option "Search only in important", only records will be dumped that have been tagged as "important". The triple choice field is for attributes of the record set that belongs to aspects of revision, see also 6.5.4.2 Version Revision Tab.

6.5.3.9 Conditions of Statistics (Version n-1)

"Wanted version failed on n% of the installations" is a heavy function. In the product info tab, you can use the drop-down field for "Wanted version" to specify what version you want to see on your computers. It is that version of the product everyone is supposed to use. If you set the value next to this option to "20", only managed products will be listed if at least 20% of the installations on the computers have a lower version of this product. This function helps show those products you need to deploy in newer versions.

"Last revision is older than n weeks" lets you narrow the query to those records that haven't been checked for more than 'n' weeks, see 6.5.4.2 Version Revision Tab, ergo if the last revision time stamp is older than 'n' weeks.

6.5.3.10 Save Report - Button

Your parameters for the advanced query can be saved as a template for a report. The button saves the parameters and creates a template in the “Deposited Reports” view, see 6.8.2 Deposited Reports | „Menu: Report Management/Deposited Reports“.

6.5.3.11 Delete Selected Product Records

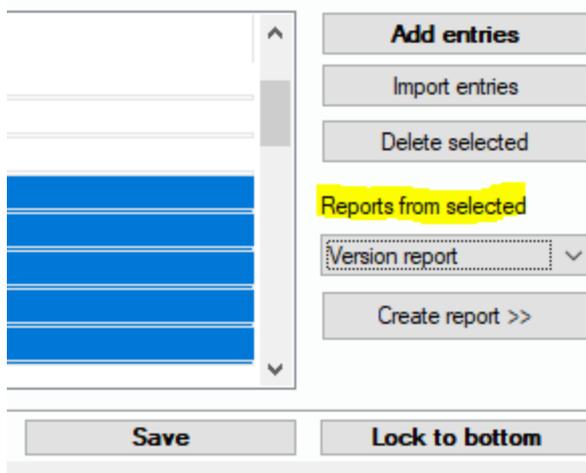
Select the records you want to delete in the list and press the “Delete selected” button..

6.5.3.12 Import via Button “Import entries“

If you have a csv file with information about software products, you can import them into the list of managed software products. Please make sure that the used software names match those ones used in the Lan-Inspector. Otherwise it may become difficult to create license balances and reports. The first thing you meet is the import configuration manager where you create an import configuration. “**Execute / Edit >>**“, enter the interface dialog and provide the path to the csv file. Associate the columns in the next step. You can use all data fields that are available in the record set of a software product.

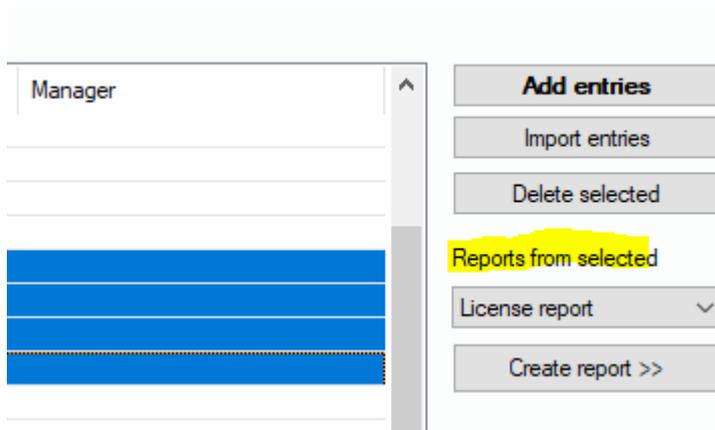
6.5.3.13 Report Versions from selected

If you want to learn about the distribution of different versions of your managed software products, select the products of interest in your list. Next, you select “**Version report**” from the drop-down list and press “**Create report >>**”. The system creates the report and switchest to the version report view, see 6.4.11 Software Version Overview | “**Inventory Manatement/More/Software Version Overview**“. In that view, your selected entries will appear in the list of “Examined products“.



6.5.3.14 Report Licenses from selected

If you need a report of the license balance which is narrowed to specified products from your list, select the records of interest, choose “**License report**” from the drop-down list and press “**Create report >>**”. This switches to the license balance view and starts to calculate your report, see also 6.5.2 License Balance | „**License+Software Management/License balance**“.



6.5.4 Edit Software Records

After your query you can select one of the records, which will open several tab dialogs at the bottom where you can make changes to the record’s content. Your changes will be saved in the moment you change to another tab, leave this view or if you select another record set.

6.5.4.1 Product Info Tab

This sheet is supposed to contain miscellaneous information about the product. You can set the “important“-tag here, which will make queries more easy later. “Product category“ is a drop-down list where you can select an existing category, or you just enter a new one which will be also available for other product records then. Furthermore, you can describe any problems or exceptions that have to be cared about during the installation or just comment the product.

Finally, you can deposit a file path to a document (pdf) that is supposed to be associated with the record of this software product. This can contain installation manuals or whatever you like.

Product info | Version revision | Roles / Responsibilities | Producer | Cost and service allocations | License stock | Installations | E-Mail Reminder

Displayed product name

Product category: External ID: User count(est.): Relevancy: Important

Specialty of the installation:
 Comment:

Documentation of the installation (PDF):

6.5.4.2 Version Revision Tab

This tab dialog shows you what versions of a product are used on PCs of your network. If you click on "Update", the statistics for this product will be re-calculated. The drop-down list „Wanted version“ contains all available versions. You can choose the one, you prefer or you want to set as the destination version for the moment. After you have chosen the wanted version, you can update the statistics again and see how large the part of PCs is that run that version. Quite many companies follow "n-1 politics", which means that for security and other reasons, always the latest or at least the latest -1 version is to be used in the network.

Additionally, you can tag the product to be an exception and that it is not part of the version policy. Again, you have a drop-down list where you can specify the "type of exception". If the type is not listed, you can enter a new one by clicking on "Admin". Any changes you make to the lists are available afterwards in all record sets.

Product info **Version revision** Roles / Responsibilities Producer Cost and service allocations License stock Installations E-Mail Reminder

Displayed product name
Google Chrome

Update

Most common version: 31.0.1650.63
Distribution most common: 3 von 6

Latest version of licensor (manual research - e.g. 14.0.1)

Wanted version: keine Angabe
Distribution of the wanted: 0 of 6

Last revisional check: 15.02.2015 Now

Concerning its version, this product is an exception

Type of exception: Admin

Description of the exception

Comment on the version revision

6.5.4.3 Roles / Responsibilities Tab

Use this sheet to define the responsibilities for the current software product. You can use the drop-down fields where existing responsible persons are listed. You can also enter the full name manually. It is also possible to enter a windows account and click on "Check" in order to retrieve the full name.

Product info Version revision **Roles / Responsibilities** Producer Cost and service allocations License stock Installations E-Mail Reminder

Displayed product name
Bitdefender Internet Security 2015

Responsible person for this product/license: Maxim Szenessy Check

Responsible person for this product/license: Check

Product/License manager: Check

Product/License manager (deputy): Check

Knowhow owner: Martin Garbe Check

Business manager: Check

6.5.4.4 Producer Tab

If you want to save information about the producer, you can enter it in this tab. If the installer package of that producer is complete, the name, website and country is available here. Otherwise you can manually enter them here. If you like, you can add a comment in the field below. If no data

is listed here, you can try to retrieve the producer's information from one of the installations in the network.

Product info | Version revision | Roles / Responsibilities | **Producer** | Cost and service allocations | License stock | Installations | E-Mail Reminder

Displayed product name

Producer's name Country

Web site

Comment on producer

6.5.4.5 Cost and Service Allocations Tab

If you are performing a cost and service allocation, you can let the Lan-Inspector help you. In this tab you can specify points of value, budget names, connected services, installation types, deploy package names and a time stamp of your last revision. If you want to edit budget lists or service names, you can click on the “Admin” button. Afterwards you can use the cost and service allocations report of the wizard in report management.

Product info | Version revision | Roles / Responsibilities | Producer | **Cost and service allocations** | License stock | Installations | E-Mail Reminder

Displayed product name

Budget Service Installation type

Package name of the software Day of installation

Calculation type Point value Point value calculated on

Last revisional check

6.5.4.6 License Stock Tab

When you have added a software to the management entries, you can use the management GUI to have a look at the associated license entries. Select the license stock tab and the list will contain all license entries of the license pool that use the software's name. If you like, you can click on "New license in pool". This will use the software's name and create a new entry in the license pool where you can then modify the license information, (see also 6.5.1 License Pool / License Entry | „Menu: License+Software Management/License Pool“).

You can also double-click on a license entry of the list in order to switch to the license pool and jump to the correct license record.

ID	Kind	Metric	Amo...	Costs	Place	Date of purchase	Valid to
108	Full version	Client PC	3	0.00	Global/WOL TEST1/	10. Jan., 2014	19. Feb., 2016

6.5.4.7 Installations Tab

The sheet with the header "Installations" will show you all PCs that have an installation of this software. For performance reasons the list will not be calculated automatically, because it can take some time, especially if you have many computers. Click on "Show installations" in order to retrieve the list.

You can then double-click a computer of the list, which will take you to the "Object Detail" view, showing the details of the computer's record set.

Computer	BusinessUnit	Location	Group	Sub group	Version	User	Date
VL-LANI1	VisLogic GmbH	Elmshom	Vislogic	HomeOffice	3.00.13	.Administrator	2018/04/03

6.5.4.8 E-Mail Reminder for Managed Software

Each record set for managed software products can enable own e-mail reminder functions. They remind you to do a pending version revision as well as to do your cost service calculation. You can set the interval for sending e-mails arbitrarily. Additionally, you can upgrade the reminder to become a nerving reminder that sends mails every day until you have done the work you were reminded of.

Product info	Version revision	Roles / Responsibilities	Producer	Cost and service allocations	License stock	Installations	E-Mail Reminder
--------------	------------------	--------------------------	----------	------------------------------	---------------	---------------	-----------------

Displayed product name
AI Suite 3

Activate e-mail reminder for version revision

E-mail address(es)

Days after the last check

Send only once
 Send every day, until the check has taken place

Activate e-mail reminder for cost and service calculation

E-mail address(es)

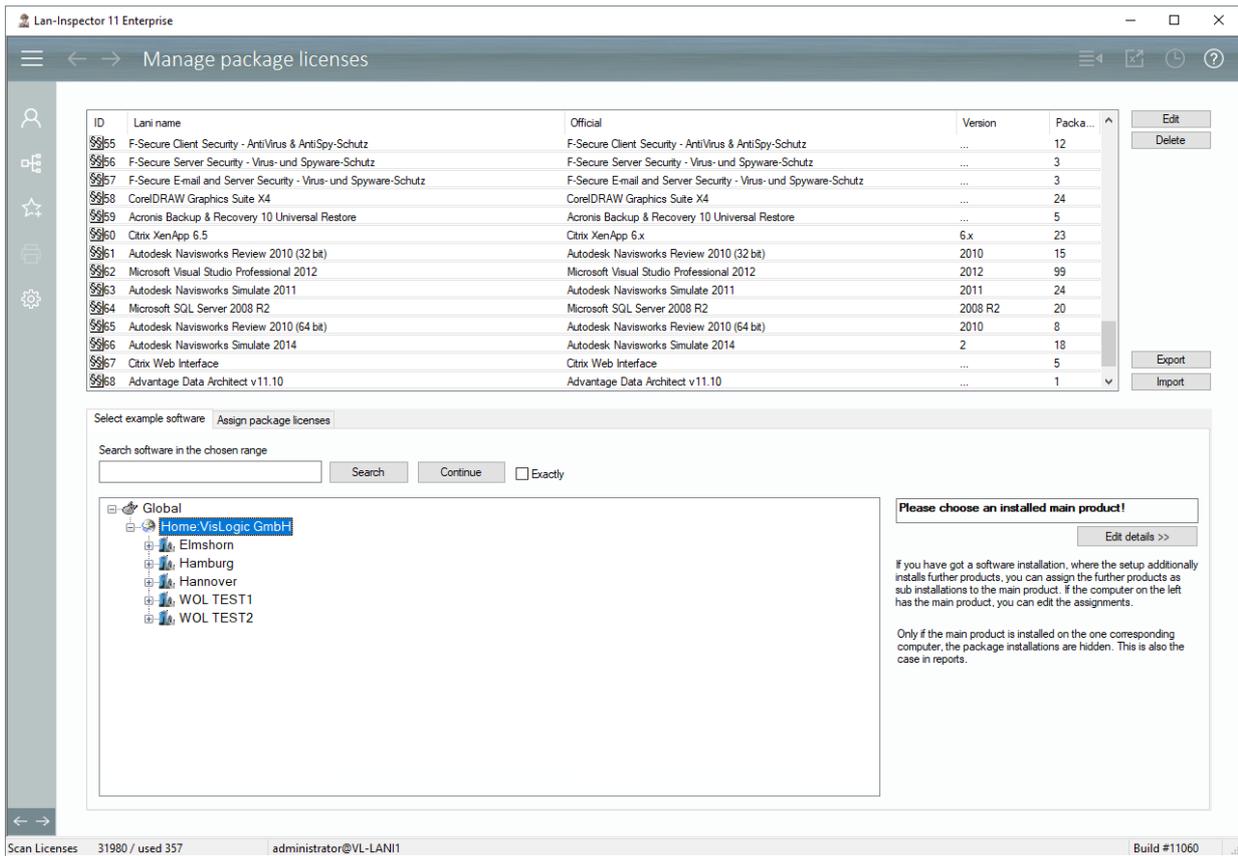
Days after the last check

Send only once
 Send every day, until the check has taken place

6.5.5 Manage Package Licenses

The Lan-Inspector defines package licenses for all those products that will be installed together with one main product. For example, if you install “Visual Studio 2017 Professional“, you have a wild bunch of products that have been installed together with visual studio (SQL Express and various other things). Looking on the view “Installed Software in the Network“, nobody will have an answer, where those products come from, and even less if there are enough licenses for them available. If products come together with a main license, they are of course licensed as a part of the purchased product. These additional products are not supposed to consume licenses in the views. The condition for that is clear: on the computer with such additional products must be an installation of the main product that consumes the “main” license.

The view “Manage Package Licenses” contains a list of existing collections at the top. You can use the buttons on the right side or double-click to view or edit one entry.



Looking at the different views, package licenses will usually be hidden if the mentioned condition is true. In most cases, you have an option field that allows you to unhide package licenses.

CCleaner	b.03	...	Piriform
CrystalDiskMark 3.0.3b	3.0.3b	...	Crystal ... http://cryst... 2015/02/03
OCR Software by I.R.I.S. 14.5	14.5	...	HP
Microsoft Office Standard 2010	14.0.....	82503-561-...	Microso...
Adobe Premiere Elements 10	10.0	...	Adobe ... http://www....
TeraCopy 2.27	...	...	Code S... http://www....2013/08/20

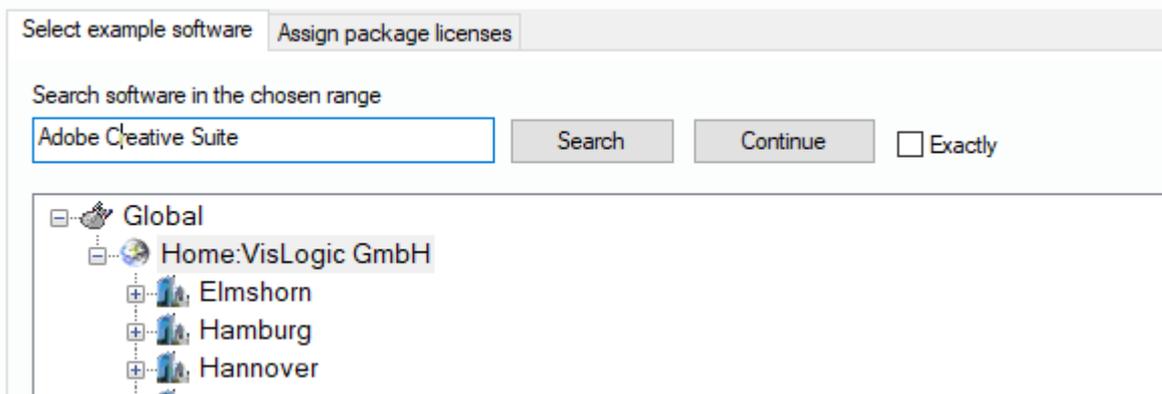
Some views offer that you can unfold the package licenses, like the "Object details". You can click on the + sign to do that.

CrystalDiskMark 3.0.3b	3.0.3b ...	Crystal ...	http://cryst...	2015/02/03
OCR Software by I.R.I.S. 14.5	14.5 ...	HP		
Microsoft Office Standard 2010	14.0.....	82503-561-...	Microso...	
Microsoft Office Excel MUI 2010	14.0....1031		Microso...	2015/02/03
Microsoft Office PowerPoint MUI 2010	14.0....1031		Microso...	2015/03/11
Microsoft Office Publisher MUI 2010	14.0....1031		Microso...	2013/08/15
Microsoft Office Outlook MUI 2010	14.0....1031		Microso...	2015/03/11
Microsoft Office Word MUI 2010	14.0....1031		Microso...	2015/02/03
Microsoft Office Proof 2010	14.0....1031		Microso...	2015/02/03
Microsoft Office Proofing 2010	14.0....1031		Microso...	2013/08/15
Microsoft Office Office 32-bit Compon...	14.0....0		Microso...	2015/03/11
Microsoft Office Shared 32-bit MUI 20...	14.0....1031		Microso...	2013/08/15
Microsoft Office Shared MUI 2010	14.0....1031		Microso...	2015/03/11
Microsoft Office OneNote MUI 2010	14.0....1031		Microso...	2015/02/11

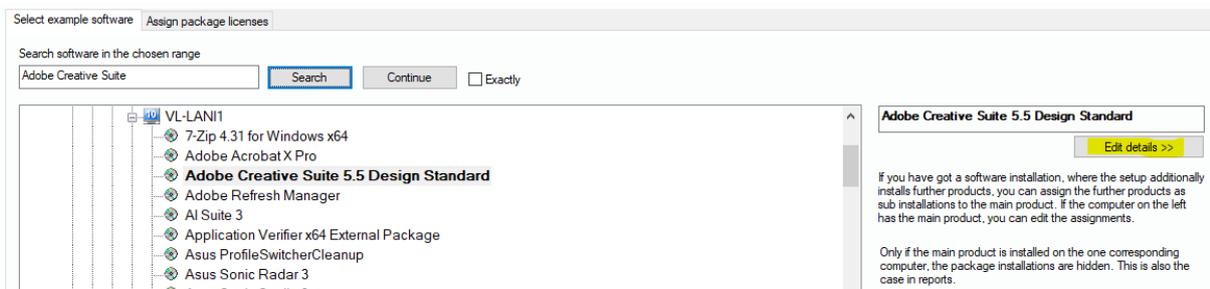
6.5.5.1 Create a new package license

To create a new package license, please follow these steps:

1. Search for the main installation / the main product. If you know the exact name string, you can activate “Exactly”, otherwise the search function will match on statistics:



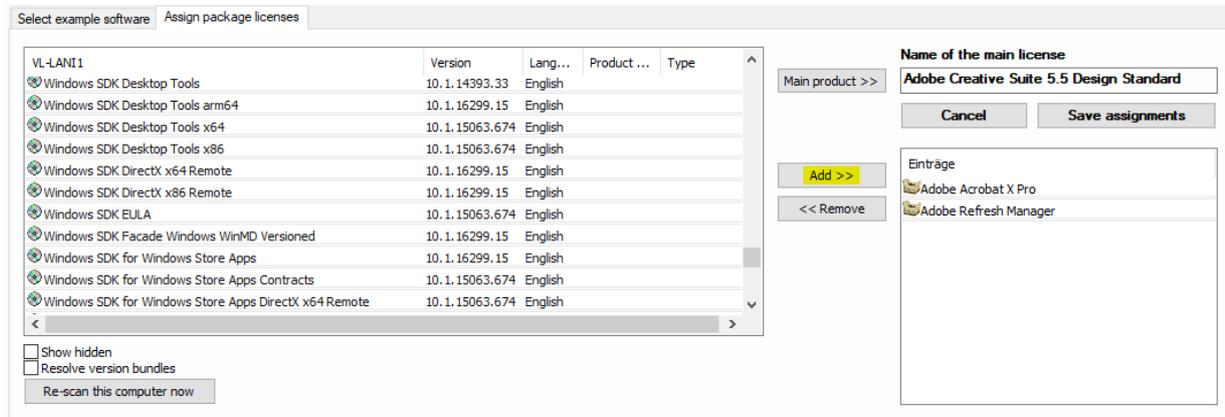
2. If the search hits an entry that matches the pattern, it will display the computer and the product:



If the result is not the one you expected, you can click on “Continue” to go on with the search.

3. If you have found your product, you click on “Edit details >>”.

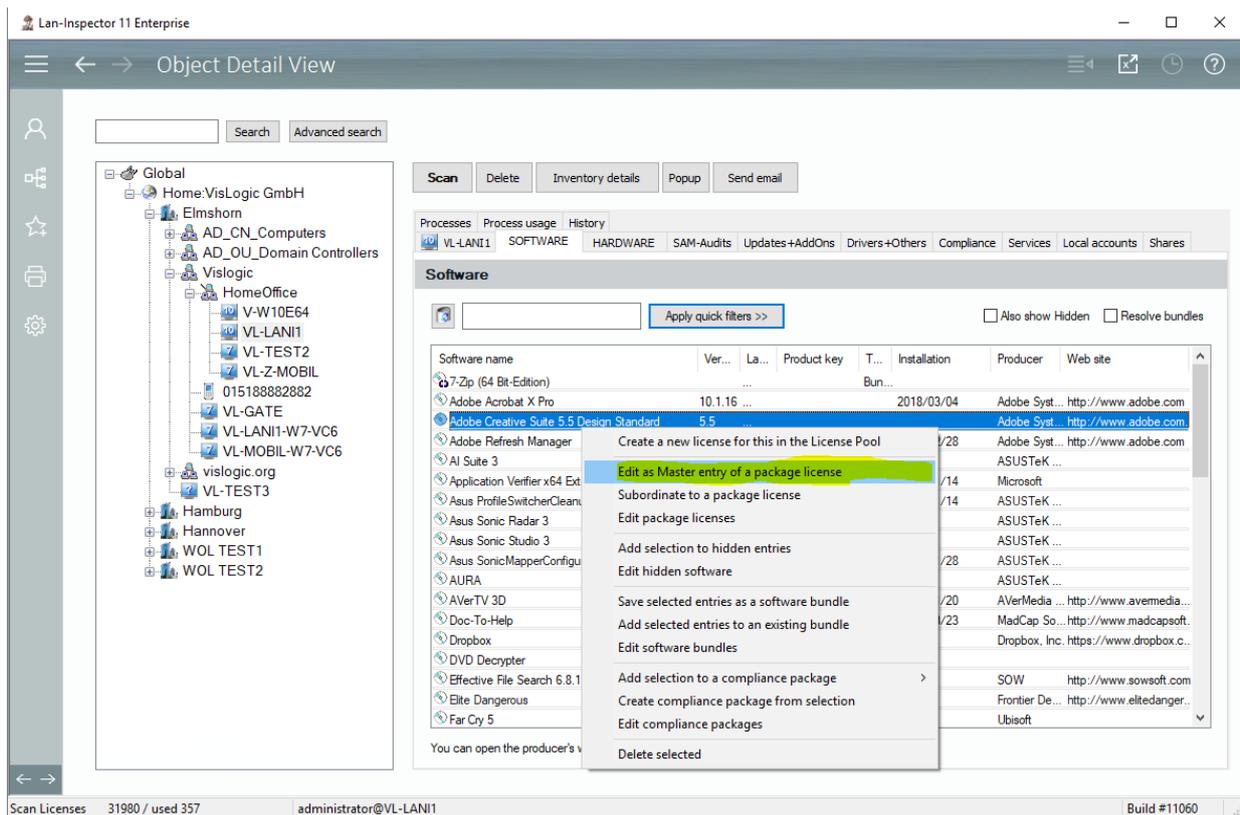
- The system switches over to the association window. Here you see the list of installed products on the computer that also has the main installation. The main product has already been set.



- Click on "**Add >>**" or "**<< Remove**" to manage the associations. You can also select another main product if you think the choice was wrong.
- Make sure to click on "**Save assignments**" when you have finished the work on the package.

6.5.5.2 Generate Package Licenses from other Views

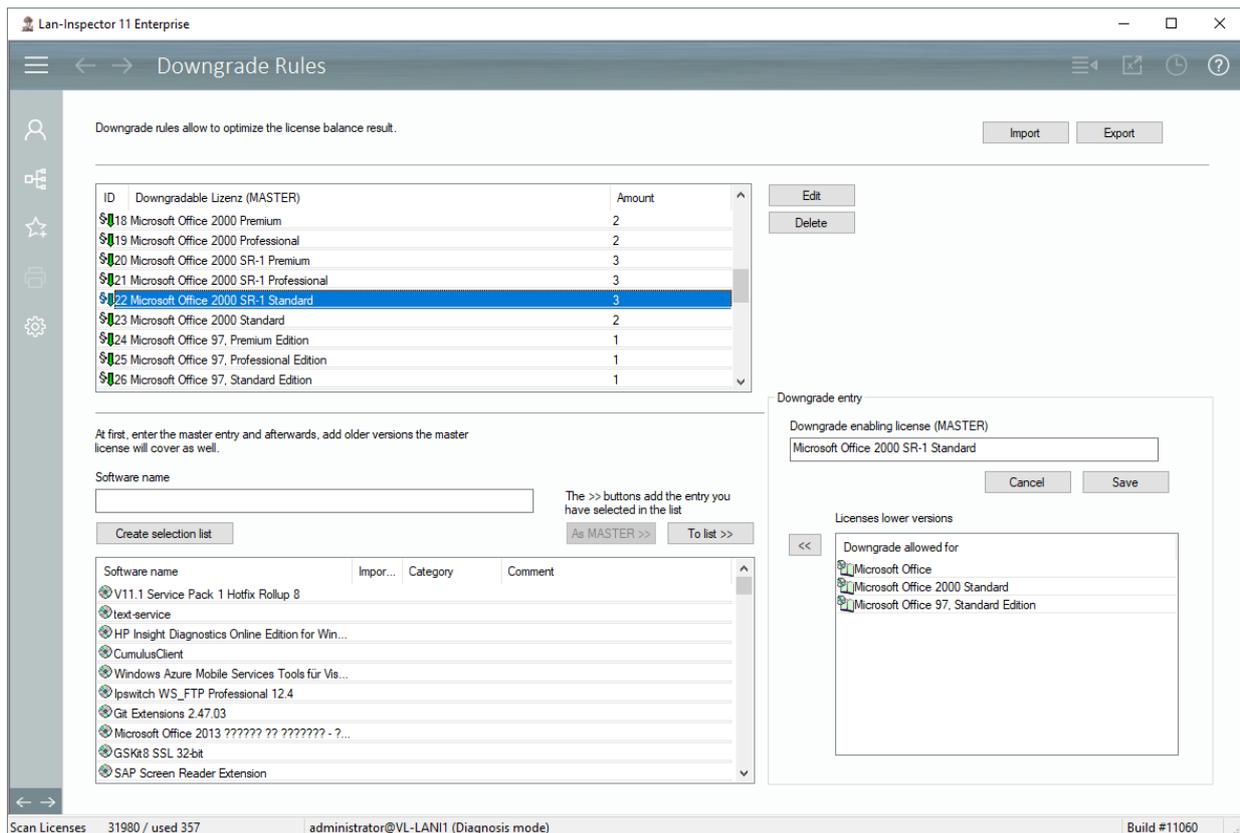
Use the context menus via the right mouse click to generate package licenses directly from the view. Especially the "Object Details" are recommended for this, because you already have the wild bunch of software in front of you.



6.5.6 Downgrade Rules

The license right of a “downgrade“ was once very common, nowadays not anymore. Actually, they still are valid to some older products and their license politics. If the software producer grants downgrade rights, it means that you can purchase a higher version of a product but install a lower and older one. Many producers and therefore the resellers only sell the latest versions to make their support an easier task. Of course, they don't want to force their customers to update each pc of the network immediately. To achieve this, they offer downgrade rights for the latest products in some cases.

The Lan-Inspector can map those downgrade rules. They can be managed in the editor for downgrade rules.



6.5.6.1 Create a Downgrade Rule

Into the field “Software name”, type in the name of the software you want to create a downgrade rule for. Click on “**Create selection list**”. You will see all products that could match the pattern in the list below. As in any other views, it is of importance that you use the exact name strings which the Lan-Inspector finds on the computers. If you know the exact name, you can skip the choice from the list and click on the button “**As MASTER >>**” directly.

The entry you chose appears in the area “Downgrade entry” to the right as a MASTER-entry. Afterwards, you can choose the product search and the list in order to add products with lower versions. Be sure that these lower versions are allowed to use the downgrade option of the MASTER license (if needed, ask the seller).

IMPORTANT NOTE: It is important to keep in mind you are only allowed to use the license once. An installation with the latest version will consume the license. With this downgrade rule, the license of the latest version will be consumed by the lower version. You are not allowed to install both with one license.

Click on “Save” to store your changes to the data base.

6.5.7 Change License Data Fields

You might remember the 20 data fields every computer and inventory object in the data base can use to store record set specific data. Every license record set has 6 fixed field and as many dynamic fields as you want. Once you set these fields, they are valid in all license record sets. You can store whatever you like in these fields. They will be accessible in reports as columns later on.

By using the tree of functions and selecting “**License+Software Management\More\Change license data fields**”, you will reach the following dialog:

Change license data field names

Field name	Active
SO-ID	<input checked="" type="checkbox"/>
Field2	<input checked="" type="checkbox"/>
Field3	<input checked="" type="checkbox"/>
Resp	<input checked="" type="checkbox"/>
Field5	<input checked="" type="checkbox"/>
Field6	<input checked="" type="checkbox"/>

Dynamic further fields 7 - n

Field name
Test1

New

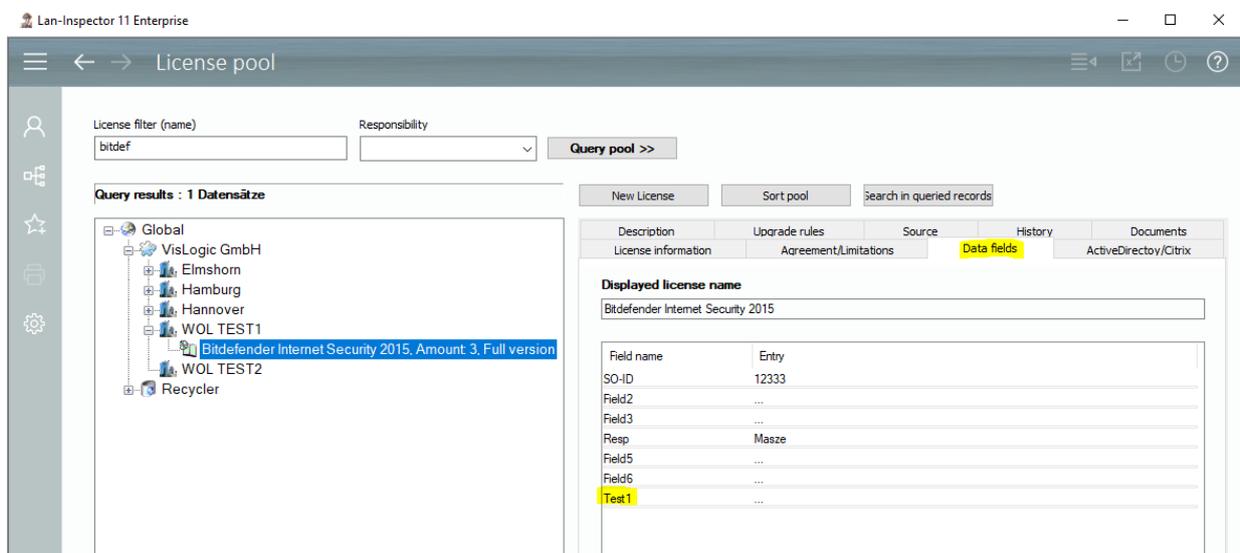
Delete

Select entries and click them once again to change the names!

Cancel OK

You see the 6 static fields and on the right side, there are the dynamic ones. You can name them globally, which will effect all license record sets. The dynamic fields can be created by clicking on “New”. You can delete them by selecting one and click on “Delete”. If you want to rename them, just click on one line for one second. Same procedure as if you wanted to rename a file in windows explorer. If you delete fields here, please keep in mind that this effects all license record sets. Anything stored in the deleted fields will be erased. Only restoring a data base backup can get them back.

You will find these license data fields in the license pool after having selected the record set of a license.



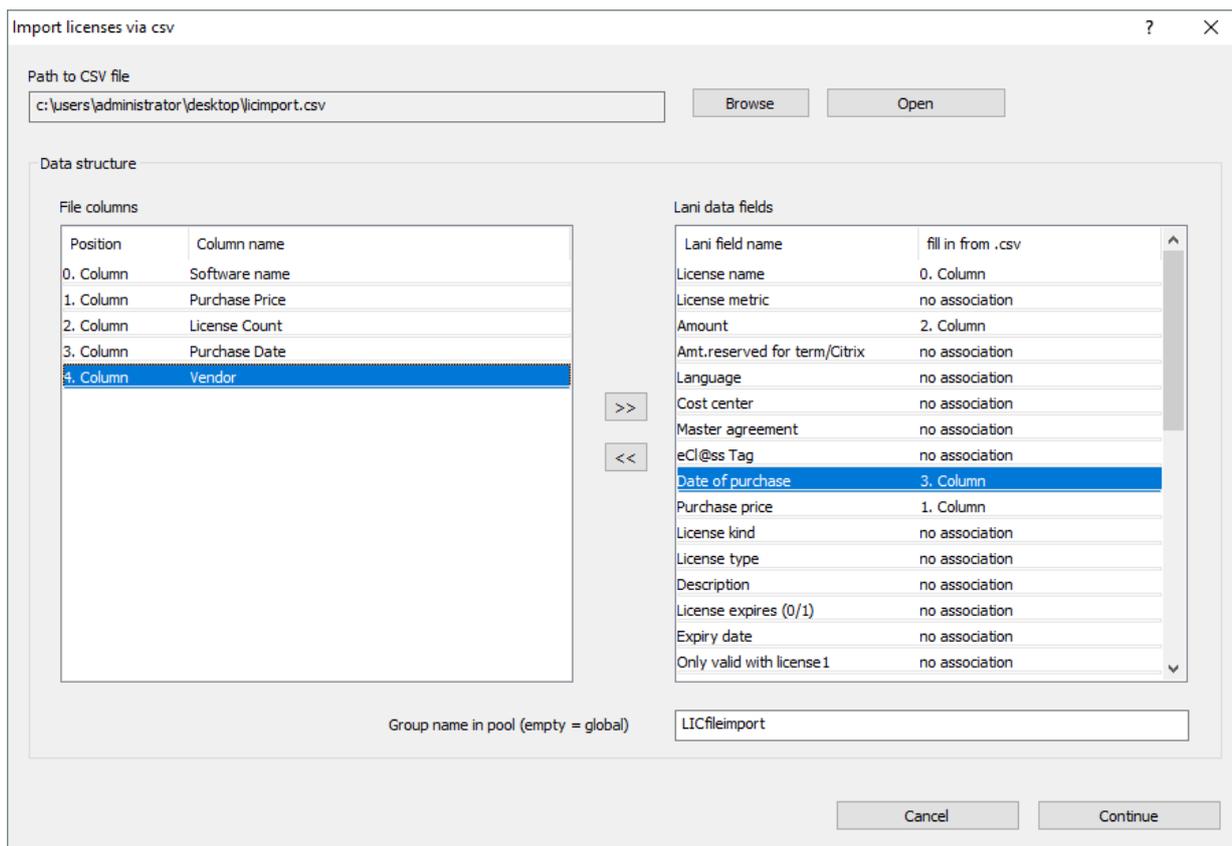
6.5.8 Import Licenses via CSV

You can import license records from a csv file (**Menu: License+Software Management/More/Import Licenses via Csv**). Please keep in mind that software names may have to be adjusted to Lan-Inspector naming conventions. If you want to create license balances, the names of your license records have to match the software names in the network.

After you start the import function, the import manager for import processes appears. Here, as well as in other import processes, you can create and maintain import configurations. You can re-use them later on if you have to repeat an import process.

Click on **“Edit / Execute >>”** to open the interface where you can specify the path to the CSV file and set the associated columns. You can set associations for all fields available in a record set of a license.

Successfully imported license records will appear in the license pool in the group which name you can specify at the bottom of the interface window. If you leave this field empty, all imported licenses will be set to the “Global” branch.



6.5.9 Special Backups of License Records

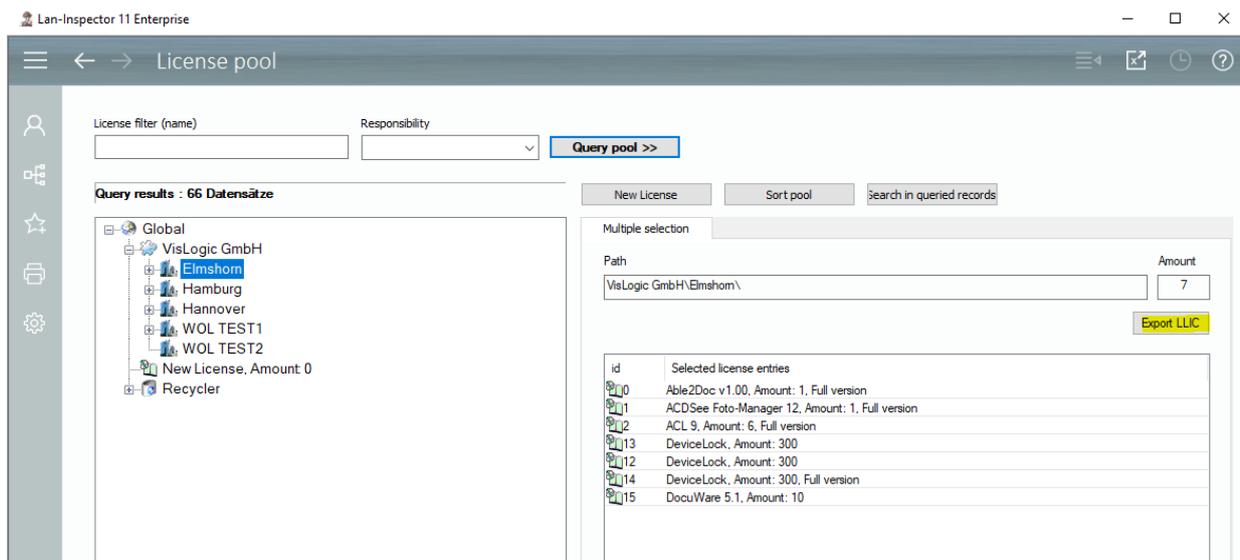
The Lan-Inspector includes extensive functions for creating backups or for accessing archives, see 7.2.7 Backups and Archives. If you just quickly want to backup license records, you have some functions here “**License+ Software Management/More/License Backup**“:

6.5.9.1 Save Pool / Load Pool (.LLP file)

You can quickly store the complete license pool into a file with the ending “.LLP”. Please note, if you load a complete pool, any precedingly available information will be deleted. If you call one of these functions, the system asks for the path of the file, before starting the process itself.

6.5.9.2 Export Licenses to .LLIC Files

Visit the license pool and query your license record sets, see 6.5.1 License Pool / License Entry | “**License+Software Management/License Pool**“). Click on a group to receive the list of its license children on the right.



You may notice a button “**Export LLIC**“. Select the licenses you want to export, click the button, and the system asks for the path of the destination file. Confirm the path and the .LLIC files will be saved in the next step.

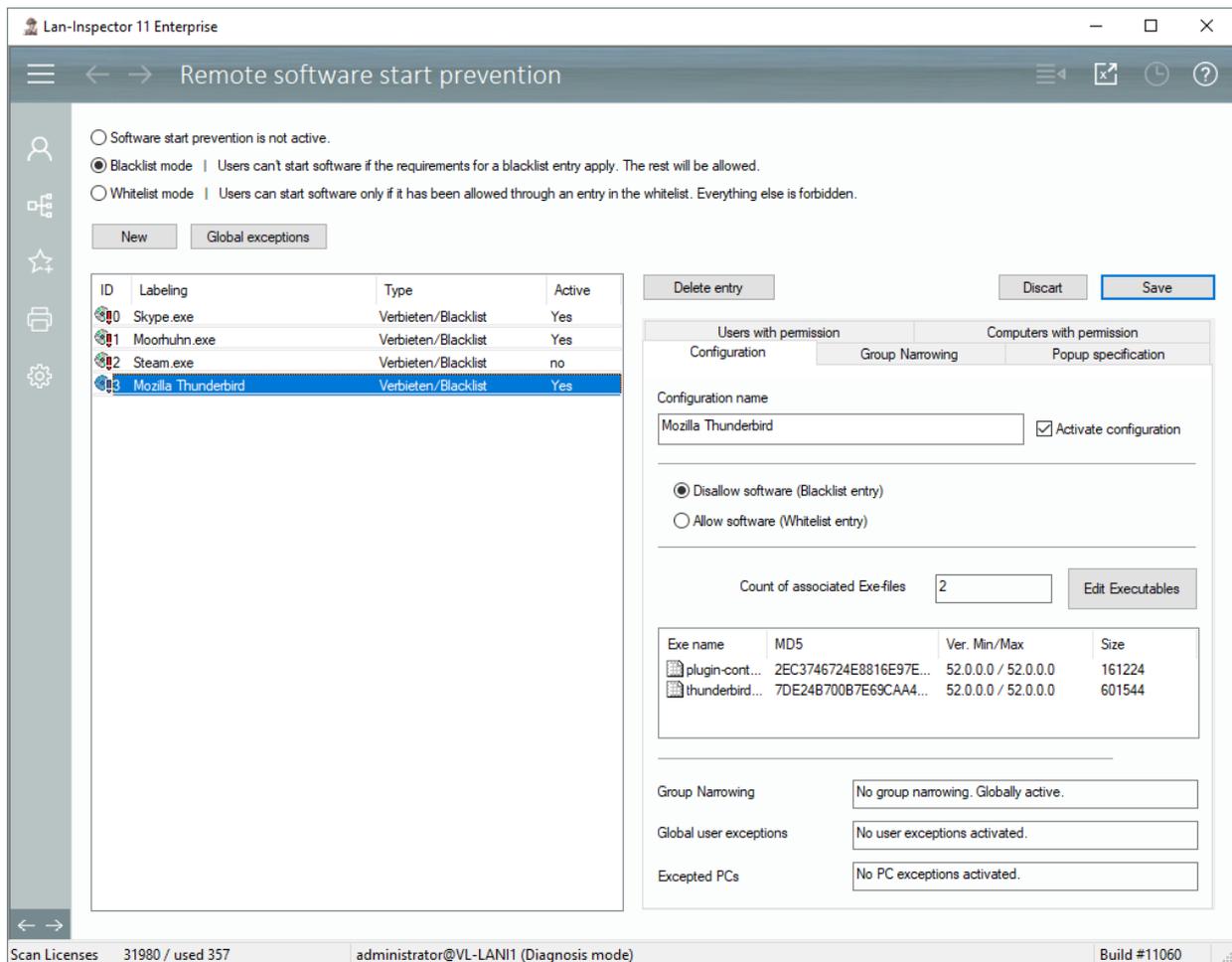
6.5.9.3 Load Licenses from .LLIC Files

Using this function of the tree of functions, you can load single licenses you have stored into a .LLIC file before. Please note that no files will be overwritten by this function. If you load one and the same file for more than one time, you will have clones of the license record in your pool.

6.6 Blacklist and Whitelist / Remote Software Start Prevention

Blacklists and whitelists for full products are effective instruments of controlling the use of software in your network. These extensive functions are only available in the Professional Edition and the Enterprise Edition. The Lan-Inspector can stop the start of products on the client PCs effectively. This, for example, makes sense if people use portable versions of software they bring in with USB sticks.

Instead of the started program, a friendly window appears on the desktop, displaying a user-defined text that tells about the forbidden usage. It doesn't help the user if he tries to rename the Exe files. The Lan-Inspector recognizes them via the MD5 sum or file length, depending on your configuration.



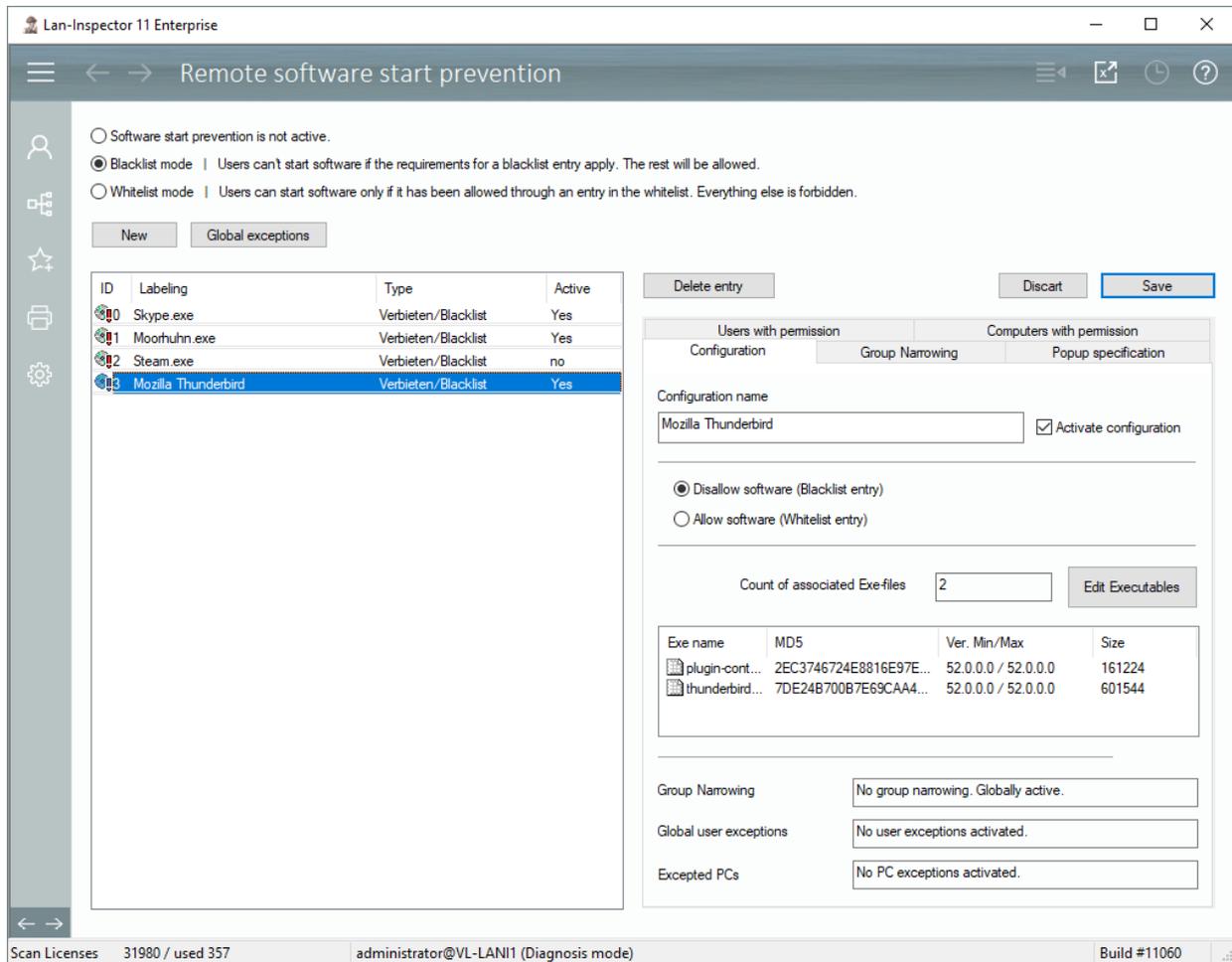
It is, though, a matter of consequence if you decide to use a “Blacklist” or a “Whitelist”. The Lan-Inspector start prevention secures windows components, so you are safe here. Please be careful anyway, because you might block important software of third party producers unwantedly.

6.6.1 Difference between Blacklist and Whitelist

The blacklist blocks registered products and exe files, while everything unknown is allowed by default. You can use the blacklist to block software that you want to get rid of in the long term. To enter a product in the blacklist, you have to know it, already. This method is safer because you can de-activate a blacklist configuration at any time.

The whitelist is much more effective. All products that do not belong to the operating system will be blocked right away. Nobody can install software or use software anymore that haven't been explicitly allowed by entering them in the whitelist.

If you activate a whitelist configuration in your network, you increase the security dramatically. If the configuration is not well planned, it can increase the risk that something doesn't work anymore you didn't think of before. You have to do an extensive phase of planning before.

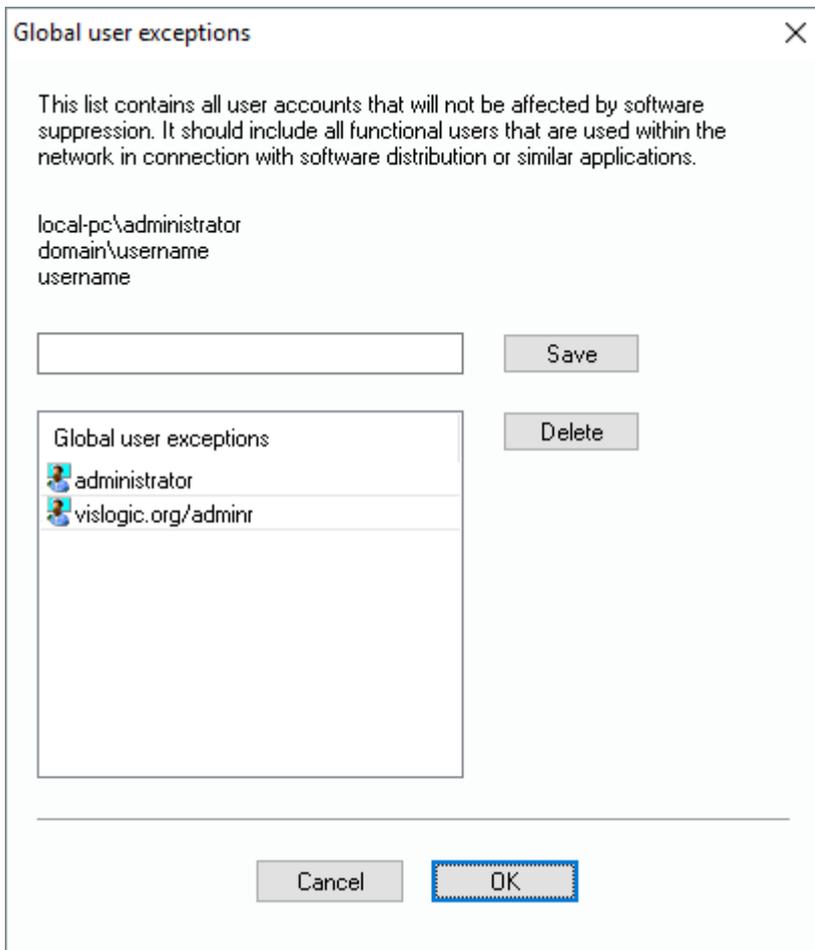


The left list shows all entries of your configuration. Click on one entry to show and modify its parameters on the right side.

6.6.2 Global Exceptions

Global Exceptions are all users that need to be excluded from any software suppression, no matter if you configure a blacklist or a whitelist. If you configure a whitelist, it is essential that you register all accounts of service users in this list. A service user account, for example, is used by software deployment or other management services. If the whitelist stops service processes of you management systems, you cannot use them properly.

Using a whitelist allows all components of the operating systems and all products that have been registered with a whitelist record. Everything else will be blocked, including all your management software. So – please make sure that all your service user accounts are in this list to make sure that they can start the services.



6.6.3 Tab-Dialog: Configuration

This tab dialog shows the name of the configuration and displays if the record is active in the network. Furthermore, you can decide whether it is a blacklist or a whitelist entry. If you globally have set the configuration to blacklist, and you create a whilelist entry here (and vice versa), it can be saved, but you cannot activate it.

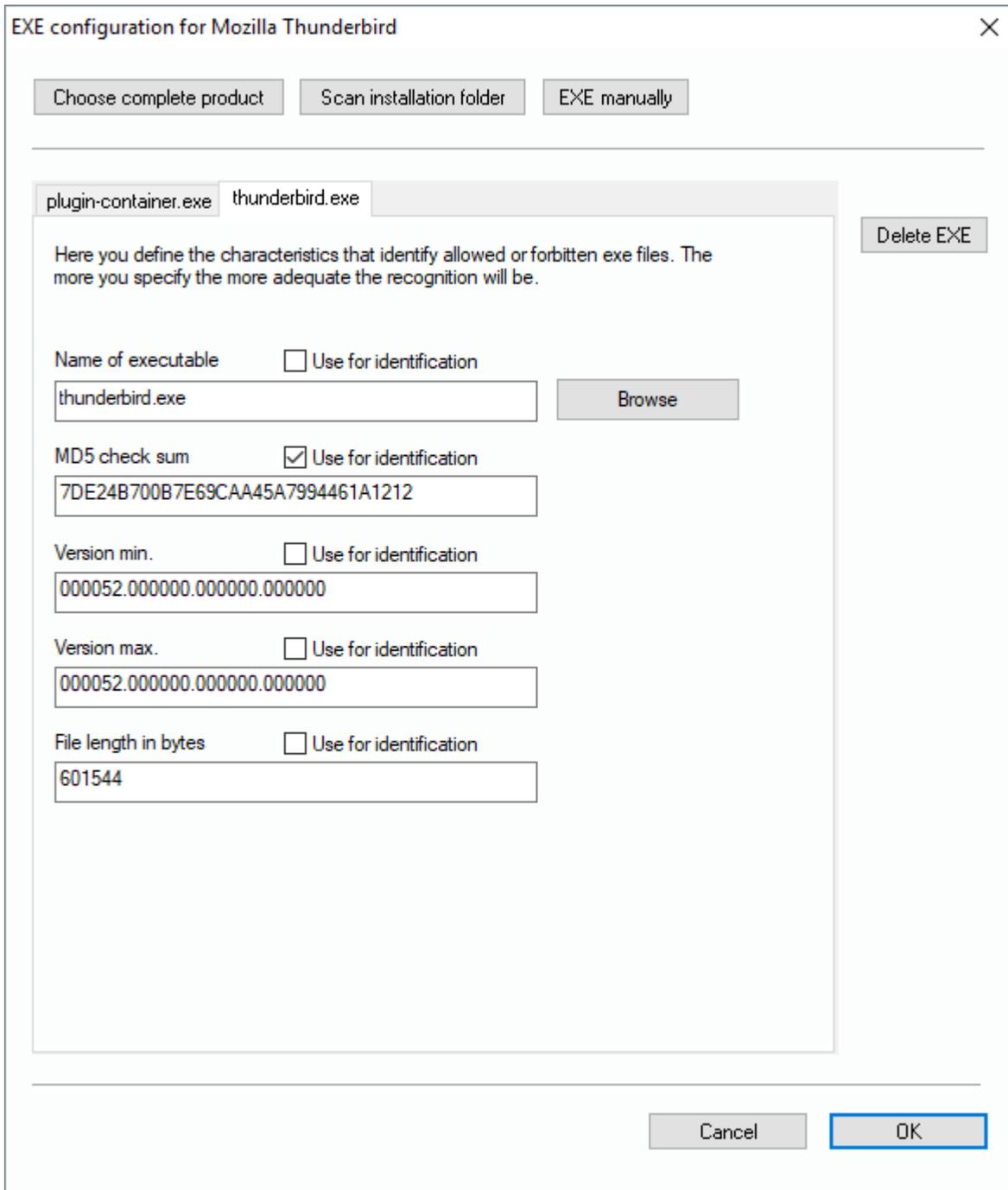
Users with permission		Computers with permission	
Configuration	Group Narrowing	Popup specification	
Configuration name			
<input type="text" value="Mozilla Thunderbird"/>		<input checked="" type="checkbox"/> Activate configuration	
<input checked="" type="radio"/> Disallow software (Blacklist entry) <input type="radio"/> Allow software (Whitelist entry)			
Count of associated Exe-files	<input type="text" value="2"/>	<input type="button" value="Edit Executables"/>	
Exe name	MD5	Ver. Min/Max	Size
plugin-c...	2EC3746724E8816...	52.0.0.0 / 52.0.0.0	161224
thunder...	7DE24B700B7E69...	52.0.0.0 / 52.0.0.0	601544
Group Narrowing	<input type="text" value="No group narrowing. Globally active."/>		
Global user exceptions	<input type="text" value="administrator, garvs"/>		
Excepted PCs	<input type="text" value="pdc-sources, vl-lani1, vl-pxo"/>		

In the middle you see a list field that contains all product components, including known facts about them. Each record set of the blacklist or the whitelist is corresponding to a complete software product. It can, of course, consist of more than one exe files.

To modify the parameters that help identify the product and its exe files, you can click on the button **“Edit Executables”**.

6.6.4 Edit Executables

If you click this button, the dialog for executable configuration appears. Every product may consist of more than one exe file, you have the possibility to define as many exe files as needed, here. You can either choose a complete product from the catalogue, scan an installation directory for exe files, or specify a single exe file manually.



6.6.4.1 “EXE manually“

In order to demonstrate which parameters describe an exe file identification, we begin with the button “EXE manually“. After you have clicked the button, a new tab appears with the following fields:

New
Delete EXE

Here you define the characteristics that identify allowed or forbidden exe files. The more you specify the more adequate the recognition will be.

Name of executable Use for identification

MD5 check sum Use for identification

Version min. Use for identification

Version max. Use for identification

File length in bytes Use for identification

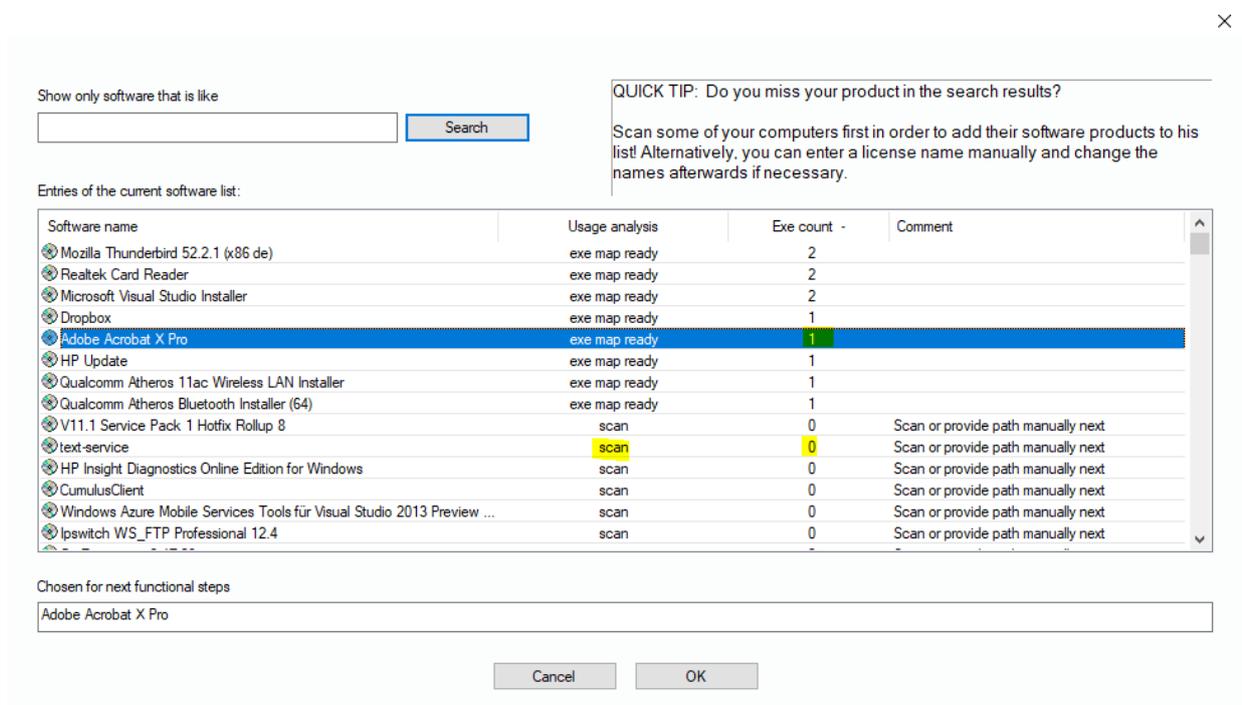
Of course, you can enter the exe characteristics manually, but this is quite tricky and can cause errors. If you click **“Browse”**, you can directly browse for the exe file you want, using folders of your PC or you can browse Network PCs. If you need to access C\$, you can just enter [\\pcname\c\\$](#) + ENTER in the field below the tree. If you found your exe, the scanner retrieves the contents for the fields automatically. You can also decide in what ways the exe file will be identified. By default “MD5” is activated, because this prevents any name change experiments of the users.

To identify by MD5 has the only disadvantage that the record will only block exactly this exe file. If the producer sends out an update and changes the file, the whole record set will become useless, because the new file will have another MD5 sum.

6.6.4.2 “Choose complete product“

In the moment the Lan-Inspector scans the PCs to collect their software installations, it also takes a snapshot of all exe components belonging to these products. To achieve this, the option for this spider scan has to be activated, see 6.9.1 Scan Configuration, option **„Collect product EXEcutables“**.

If the Lan-Inspector has information about product components, they will be tagged with “**exe map ready**” in the product catalogue. If there are no files, it maybe possible that the corresponding PCs have to be scanned first. Exotic installers may install in a way that will prevent the scan for exe files. In that case you have the option to scan an installation folder (see “Scan installation folder”).



If you selected a product with an existing exe map, click on "OK". The exe configuration window will create a tab dialog for each component.

Please note that every registered exe file has to be processed. It is recommended to have an eye on the choice of exe files. Only register the main exe files of a product. If you're not sure about the importance of an exe file, just delete it. Select the corresponding tab dialog associated with the exe file and click on "**Delete EXE**".

If you choose a product that has no exe map, the Lan-Inspector will seek for PCs that are currently online and have the product installed. You can then ask for a scan of that PC in order to get the exe map this time.

6.6.4.3 "Scan installation folder"

If the exe map is not available, you can also browse for a folder which belongs to the installation of a product. The scanner will collect all directories and sub-directories for exe files then and list them in form of corresponding tab dialogs. By the way, you can also enter UNC paths at the bottom of

the file browser like [\\pc-Name\c\\$](#). The system recognizes the full partition, so you will be prompted if you want to scan the full drive. Say – “no” and the full share will be ready to be browsed.

6.6.4.4 Get Exe Information from Object Details (Process Usage)

To register a manual Exe via the function of the Exe protocol, visit the view “**Object Details**” and select the tab dialog “**Process Usage**”, see 6.3.6 | “**Inventory Management/Object Details**“. In case your exe protocol is active, you will see a list of exe files the user has started on the client. You can use the right mouse button to call up a context menu which allows you to take information about an exe to the software start prevention config. To enable the exe protocol (see 6.4.12), visit “**Inventory Management/More/EXE protocol**“. You can also click on “**Settings**“ in the process usage tab dialog, see 6.3.6.12.

Process usage

If the EXE-log is active, this tab provides information about process usage of EXE files. With a right click you can directly use EXE files to generate a software suppression record. Launched EXE files will be monitored. You can also add files like DLLs manually. Additionally, you can use a right click to pick an entry for the software start suppression.

Clear EXE logfile Settings

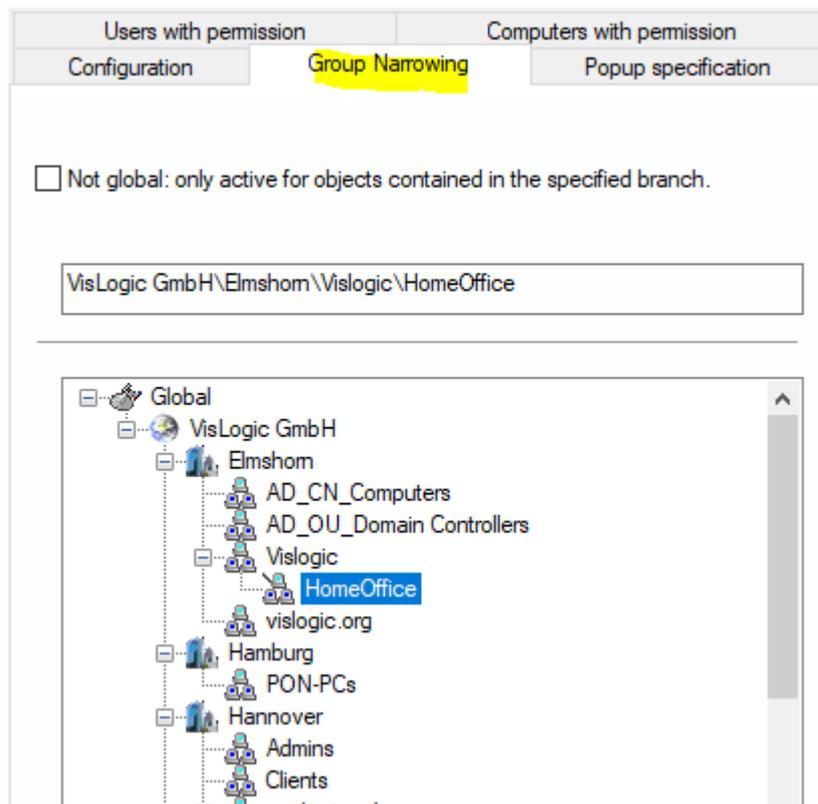
File name (automatic)	Version	First la...	Last lau...	Calls	MD5
invcontainer.exe	1.9.230...	23. Mar.....	08. Apr., 2...	74	83AB4F43219126138818DC273D596B7E
sihost.exe	6.2.162...	23. Mar.....	08. Apr., 2...	23	0C9644276843D331A61A0900C1C13280
svchost.exe	6.2.162...	23. Mar.....	08. Apr., 2...	61	440684C4F823AAE2CC587363F9C477A6
taskhostw.exe	6.2.162...	23. Mar.....	08. Apr., 2...	160	C30DB833AB9978883FD950B0636E2373
asrogauragpuDllserv...	6.2.162...	23. Mar.....	07. Apr., 2...	21	C03A2B63BC6BB3B60D32AE5005A4DF7E
aisuite3.exe	1.0.0.0	23. Mar.....	08. Apr., 2...	19	19A04B16F350644157A3EACDE025FB63
dipawa					173FE793F07F5DCF2EA4
ezupdt.exe	1.0.0.0	23. Mar.....	05. Apr., 2...	20	3267AC5296DC0E9240ADCFFED79F4103
explorer.exe	6.2.162...	23. Mar.....	08. Apr., 2...	104	A77D56422C38C1F8A00D95D2D5B1675E
core temp64.exe	0.99.7.7	23. Mar.....	07. Apr., 2...	20	FDC03067AF41D4960C43F35CEFF3DB5A

6.6.5 Tab-Dialog: Group Narrowing

You can bind the software suppression to a special group of the location tree. The suppression of a software start will only take place if the corresponding computer is member of the associated group.

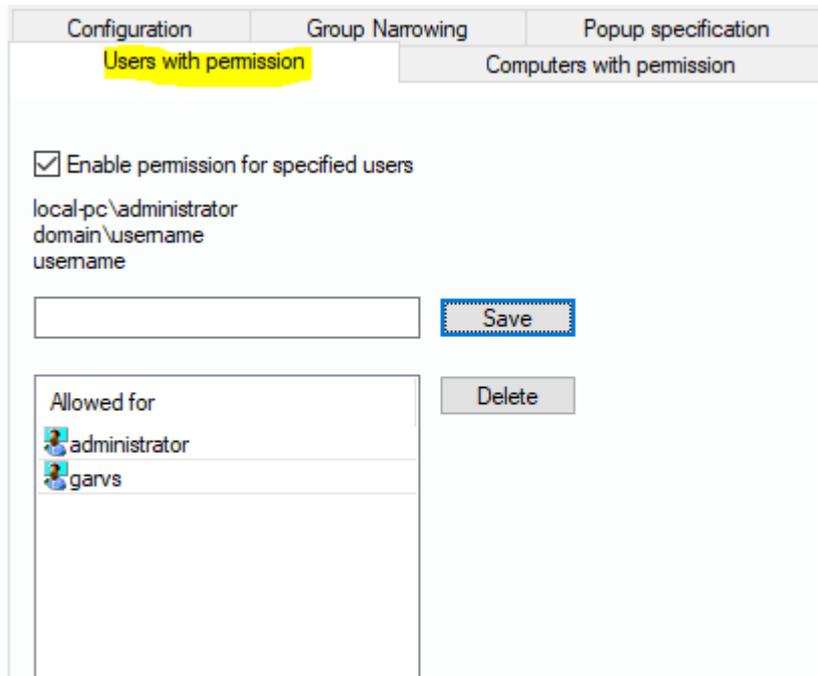
To activate this feature for the configuration record set, visit the tab dialog “**Group Narrowing**”. Activate “Not global” and select the proper group. Don’t forget to save the record.

Please keep in mind that the computer has to be scanned to receive the changes in configuration. If you move the computer to another group to disable the configuration for it, it needs to be scanned as well.



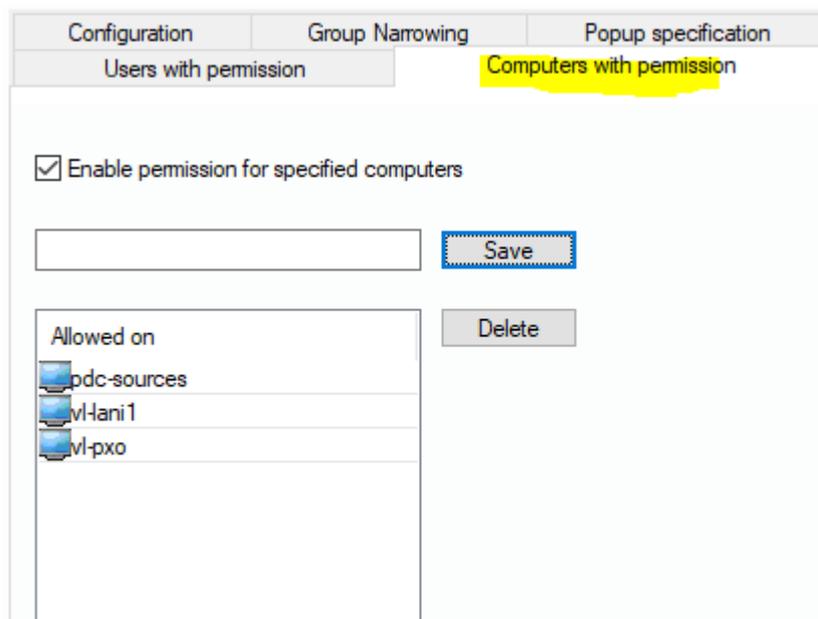
6.6.6 Tab-Dialog: Users with permission

This tab dialog helps you set a list of (domain-) accounts that are not affected by this record set. Enter the account name and click on “**Save**”. You can also select an entry and remove it by clicking “**Delete**”.



6.6.7 Tab-Dialog: Computers with permission

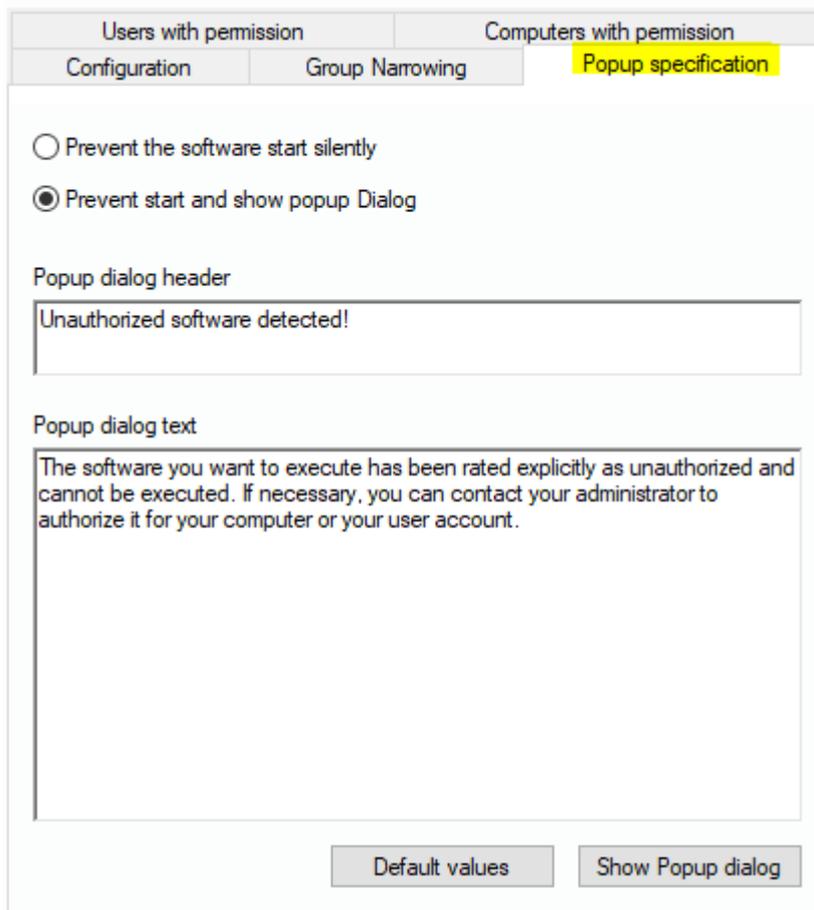
You can also activate exceptions for workstations. The suppression record set never affects workstations registered in this list.



6.6.8 Tab-Dialog: Popup specification

The tab dialog “Popup specification” lets you specify how software starts matching the corresponding record set will be prevented on the client. You can define an own header and a self-written text that will be displayed in a friendly box if the user starts the corresponding software product.

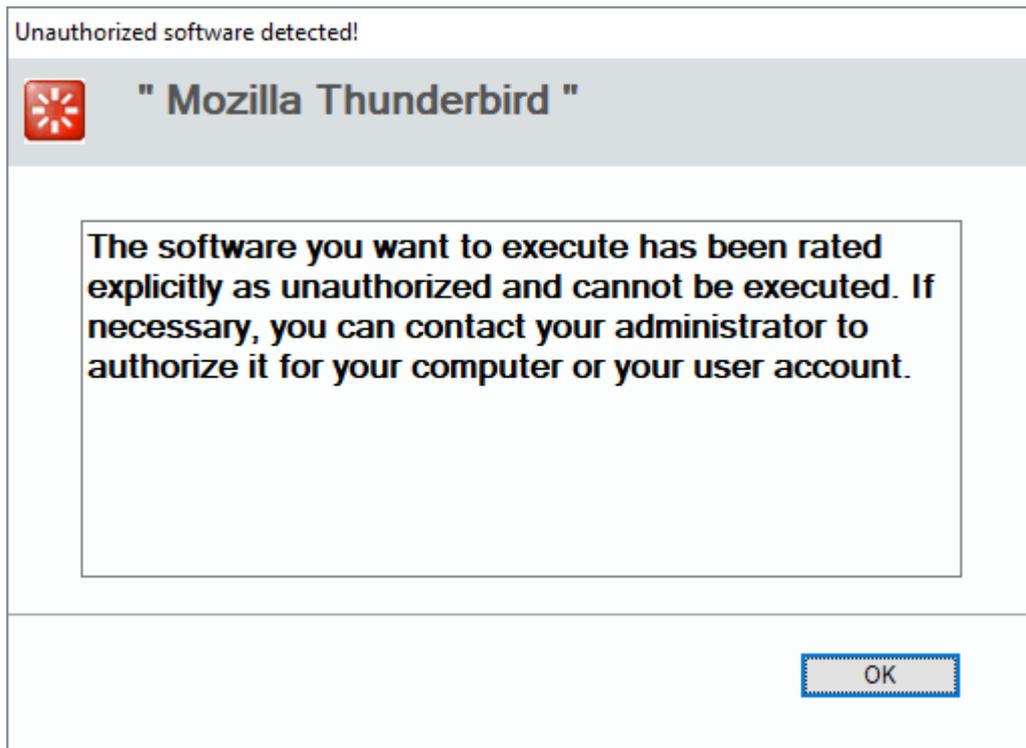
You can also decide that software starts will be suppressed without any comment or signal. If you do so, please write it down somewhere. Such records that may get forgotten could lead to inexplicable and mystic problems on the clients (because software just doesn't want to start).



The image shows a configuration dialog window with a tabbed interface. The tabs are 'Users with permission', 'Computers with permission', 'Configuration', 'Group Narrowing', and 'Popup specification'. The 'Popup specification' tab is active and highlighted in yellow. It contains two radio buttons: 'Prevent the software start silently' (unselected) and 'Prevent start and show popup Dialog' (selected). Below the radio buttons are two text input fields. The first is labeled 'Popup dialog header' and contains the text 'Unauthorized software detected!'. The second is labeled 'Popup dialog text' and contains the text 'The software you want to execute has been rated explicitly as unauthorized and cannot be executed. If necessary, you can contact your administrator to authorize it for your computer or your user account.' At the bottom of the dialog are two buttons: 'Default values' and 'Show Popup dialog'.

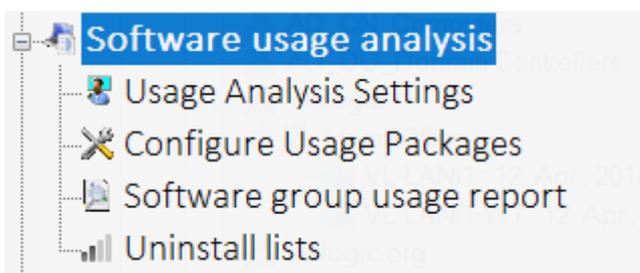
6.6.8.1 Button „Show Popup dialog“

If you want a preview of the dialog including the text you have written, please click on “Show Popup dialog”. What you see is exactly the same window the user will see when he starts the product.



6.7 Software Usage Analysis

The goal of the usage analysis is that you receive information about how much the users in your network use specific products. This is not about spying on your employees. The goal is to identify unused license potential, to save license costs. It doesn't make sense to have Microsoft Office on all computers of the network if nobody ever uses it on certain PCs. If the users only need outlook, they don't need a complete office. The usage analysis helps you find possible savings and display them.



After you have collected data during a specified period of time, you can access interesting reports that can be the base for your license optimization. For example, you get to know that 30% of all

office installations are useless, because no one uses them. You can save those licenses and possibly scale down your license agreements next time. This way license management starts to help you save costs effectively. This helps especially in larger companies where volume agreements are signed just because of rough guessing.

6.7.1 How it works

The core of the usage analysis consists of the monitoring packages. You pick those products of interest that you find in your network. Usually the Lan-Inspector knows the product and its components (exe-files), and offers this for you can create a monitoring package from the exe files. After you have activated and saved the package, you can scan the computers in order to submit the configuration. In the same moment, the monitoring of your exe files, i.e. of the product starts. The collected data consists of the time per day, the computer is switched on and the time each exe of the package runs as a process.

The work is done by the Lan-Inspector Agent running on the client PC. Each minute the collected data is stored locally. When you scan the PC again, the information will be collected and written to the Lan-Inspector data base.

We recommend that you create the packages, scan to submit the configuration and let it run for at least 7 days.

Lan-Inspector 11 Enterprise

Software group usage report

Reporting period start to end: 13.03.2018 to 12.04.2018

Execute query! Re-scan relevant pcs

Selection: Counted day sets: 1 on Number of Computers: 1

Ø day runtime: (OS-Uptime): 03:23:00

A standard day has n' hours: 8.5 Change

Resolve packets to Exe-files

Paketname	Ø Package time/day (abs)	Ø Fraction of OS uptime	Ø Fraction/norm. day time
... escalatedprivilegefileoperationdaemon.exe	00:00:00	0.00 %	0.00 %
... indesign.exe	00:01:40	0.82 %	0.33 %
Microsoft Office Home and Business 2016	03:22:30	99.75 %	39.71 %
... excel.exe	00:00:00	0.00 %	0.00 %
... winword.exe	00:52:50	26.03 %	10.36 %
... excelcnv.exe	00:00:00	0.00 %	0.00 %
... clview.exe	00:00:00	0.00 %	0.00 %
... graph.exe	00:00:00	0.00 %	0.00 %
... onenote.exe	00:00:00	0.00 %	0.00 %
... outlook.exe	03:22:30	99.75 %	39.71 %
... powerpnt.exe	00:00:00	0.00 %	0.00 %
Visual Studio Professional 2017	03:23:00	100.00 %	39.80 %
... blend.exe	00:00:00	0.00 %	0.00 %
... ddconfigca.exe	00:00:00	0.00 %	0.00 %
... devenv.exe	03:23:00	100.00 %	39.80 %
... mspdbsrv.exe	00:43:30	21.43 %	8.53 %
... scriptedsandbox32.exe	00:00:00	0.00 %	0.00 %
... scriptedsandbox64.exe	00:00:00	0.00 %	0.00 %
... tailoreddeploy.exe	00:00:00	0.00 %	0.00 %

Scan Licenses: 31980 / used 357 administrator@VL-LANI1 (Diagnosis mode) Build #11060

The data processing of the raw monitoring data sets is secured against days lost. The values you get are always average values, depending on the number of days you look at. If you report a complete group of computers, it doesn't matter if one of them was switched off for some days. It is not necessary to define a period of time for the monitoring. Once, the configured packages have been submitted, the data will be collected continuously on the clients, even if they are not connected to the network. This flexibility is unique. (after all weaknesses have been removed from the algorithms :-)

Important note: Please keep in mind that the usage analysis only works as a whole configuration. If you change one of the packages, the complete configuration of all packages will be submitted, which resets previously collected data. So, it's best to think about the needed reports, define the packages correspondingly, and let it run.

6.7.2 Configure Usage Packages

This GUI includes all miscellaneous settings like general activation of the function. It displays how much memory is consumed by the day sets of the computers. You can delete record sets by date, delete them all, or define their maximum age they will expire at. If you “Defrag” the record sets, the records will be recalculated to remove old information that may have been valid in prior configurations.

The screenshot shows the 'Usage Analysis Settings' window in Lan-Inspector 11 Enterprise. The window title is 'Lan-Inspector 11 Enterprise' and the subtitle is 'Usage Analysis Settings'. The interface is divided into several sections:

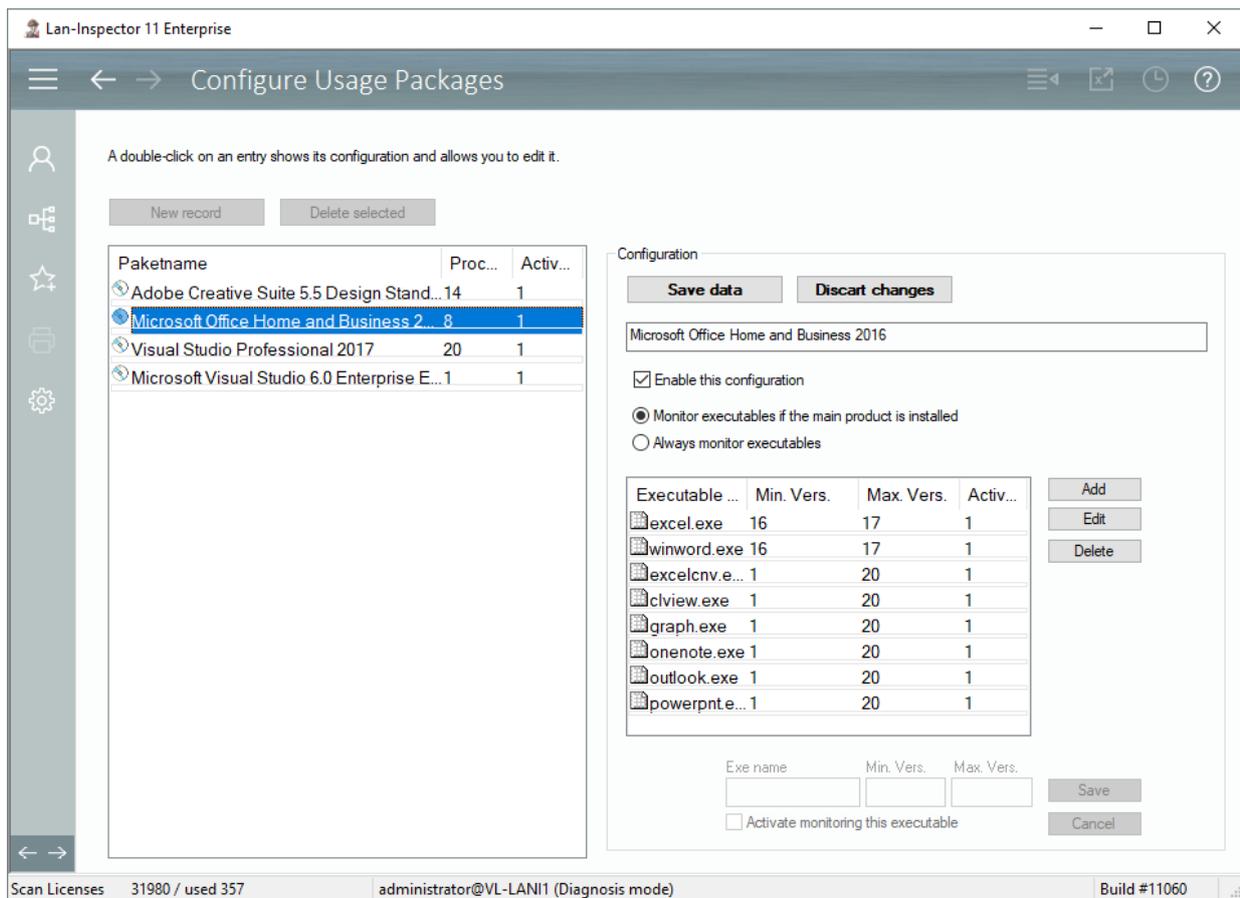
- Activate software usage analysis:** A checkbox is checked. To the right, there is a field for 'Memory Usage in KB' with the value '4'.
- Record sets configuration:** Two rows of settings. The first row has 'Latest count of pc usage record sets on the server' (value: 2) and 'Max. day record sets' (value: 100000). The second row has 'Monitoring records of this configuration start on' (value: 2018/04/12) and 'Max. day record age' (value: 365).
- Core work time period:** A text box with the value '8.5' and the label 'Core time period in hours'.
- Memory state:** A section with three columns of actions:
 - Left column: 'Deletes all package records that are not configurated (anymore)' with a 'Defragmentation' button.
 - Middle column: 'Delete records that are older than' with a date selector set to '13.03.2018' and a 'Limited deletion' button.
 - Right column: 'Deletes all records of all packages associated to all PCs.' with an 'Empty all usage records' button.

The bottom status bar shows 'Scan Licenses 31980 / used 357', 'administrator@VL-LAN11 (Diagnosis mode)', and 'Build #11060'.

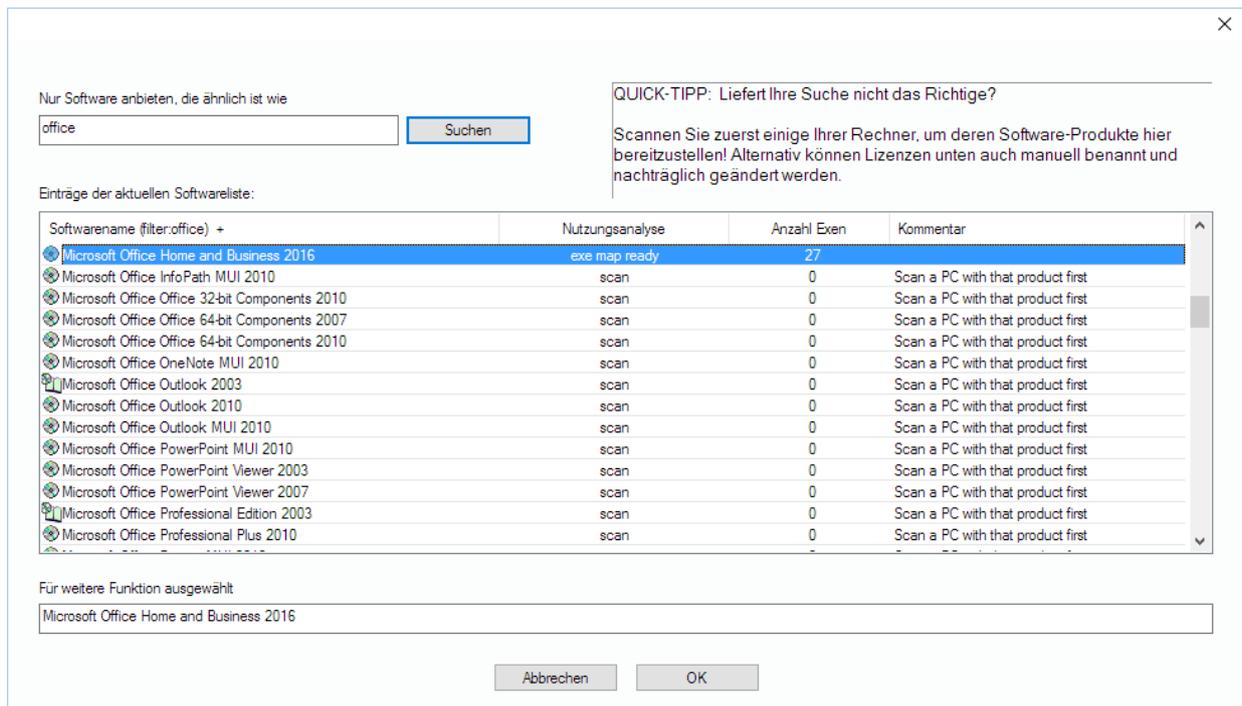
6.7.3 Configure Usage Packages

Every package starts with its name. Although you can choose any name you want, it is best to use those product names the Lan-Inspector finds in the network and offers in the catalogue. You can modify every package afterwards, but keep in mind that any submitted configuration will expire if you change something in one of them.

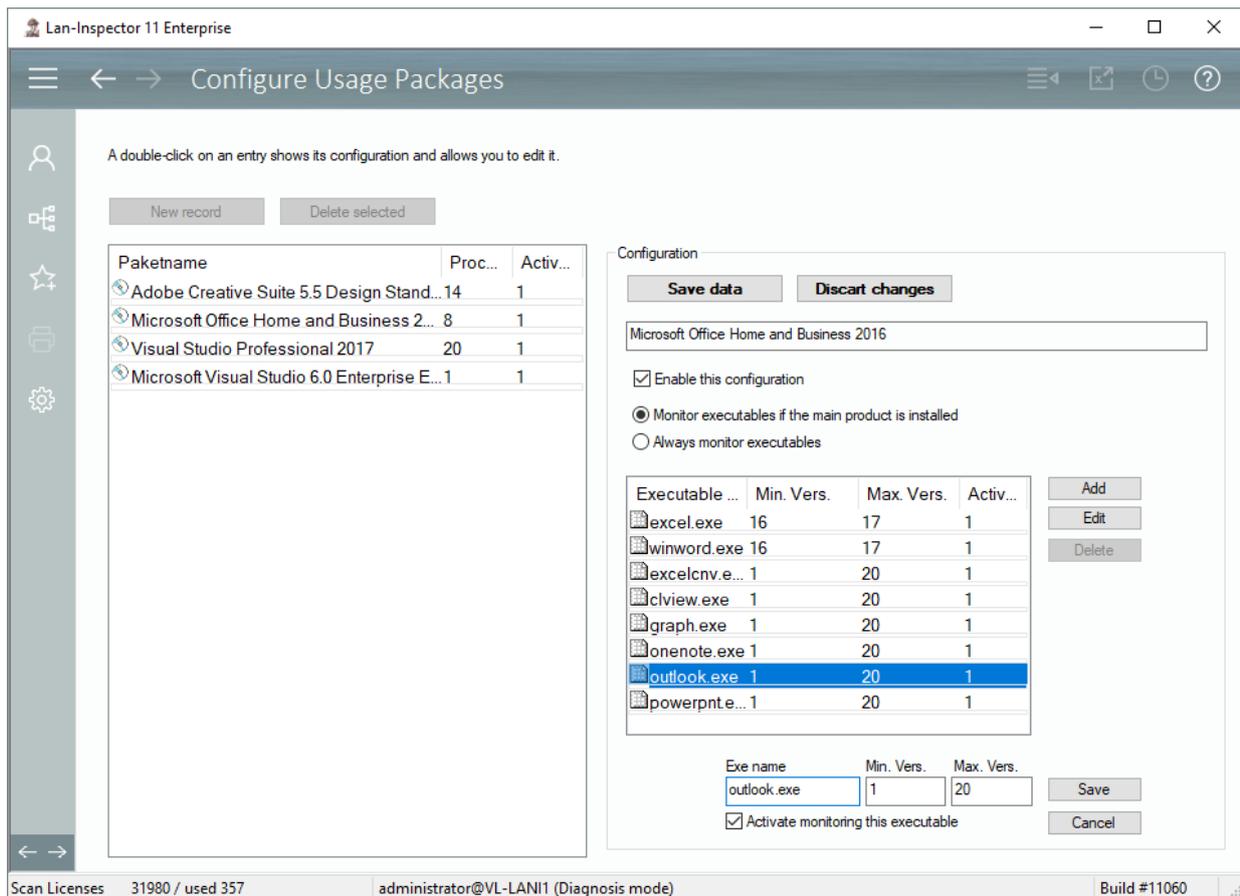
You can double-click on an entry to modify it, delete an entry you have selected before or you click on “New record” to create a new package.



1. Click on “**New record**” in order to add a new one to the list.
2. The Lan-Inspector product catalogue appears with a slight change. If you have scanned the pcs with software, it is likely that the scanner has collected all exe files that belong to the corresponding products. The products with known exe-files are marked with “exe map ready” followed by the number of exes found.



3. Choose a product and click on "OK".
4. If the product has no exe files yet, the Lan-Inspector searches for the list of PCs that have the software installed. It pings them and tries to rescan for the exe files.
5. If no exe files can be found or if all PCs are not online, you can continue and enter exe files manually.
6. Please have a look at the exes before you save the configuration: Each exe takes a quantum of monitoring resources on the clients. Focus on the important exe files that are significant for the product. You should delete all other.



7. You can decide for each exe if it is supposed to be monitored.
8. **“Monitor executables if the main product is installed”** means that the exe files will only be monitored if the product is really installed on the computer. If you choose to **“Always monitor executables”** each exe file will be monitored even if the main product is not installed. The second option is for products without a real installation (portable apps, or game-exes).
9. Activate the package and **“Save Data”**.

6.7.4 Software Group Usage Report

The view “Software Group Usage” delivers a report of the daily usage of a monitored software product. It is definitely not enough just to sum up runtimes of products. The data query is only interesting if the exe runtimes are related to the uptime of that day of the computer. They should also be related to the average number of workhours per day. That is exactly what this view does. How this works is described in the following sections.

You can query the usage record sets for a specified period of time from the server. Provide start time and end time and press “**Execute Query**”. If there are record sets the corresponding computers will appear in the tree of locations. You can click on groups to get average results of all computers in that group. You can also click on single computers. It makes sense to have a look at a single computer in order to demonstrate the functionality:

The report displays how much time the monitored exe files ran as processes. The relation between exe runtime and daily uptime of the computer is expressed in percent as well. If the computer was switched on for 3 hours and 23 minutes (like in the picture), “Indesign.exe” ran only for a very short time... maybe it was started and closed directly afterwards.

Winword.exe ran 52 minutes. The value for the package “Office” was 3 hours, 22 minutes 30 secs, because outlook.exe ran for that period. The product “Office” ran almost the whole uptime of the computer, 99.75% of it.

Pakename	Ø Package time/day (abs)	Ø Fraction of OS uptime	Ø Fraction/norm.day time
... adobe extension manager cs5.5.exe	00:00:00	0.00 %	0.00 %
... escalatedprivilegeoperationdaemon.exe	00:00:00	0.00 %	0.00 %
... indesign.exe	00:01:40	0.82 %	0.33 %
Microsoft Office Home and Business 2016	03:22:30	99.75 %	39.71 %
... excel.exe	00:00:00	0.00 %	0.00 %
... winword.exe	00:52:50	26.03 %	10.36 %
... excelcnv.exe	00:00:00	0.00 %	0.00 %
... clview.exe	00:00:00	0.00 %	0.00 %
... graph.exe	00:00:00	0.00 %	0.00 %
... onenote.exe	00:00:00	0.00 %	0.00 %
... outlook.exe	03:22:30	99.75 %	39.71 %
... powerpnt.exe	00:00:00	0.00 %	0.00 %
Visual Studio Professional 2017	03:23:00	100.00 %	39.80 %
... blend.exe	00:00:00	0.00 %	0.00 %
... ddsurface.exe	00:00:00	0.00 %	0.00 %

You can also define a norm daytime your employees are supposed to work. “Fraction/norm day time” shows, how long an exe file existed as a process in relation to a 8,5 hour day.

This was the description of **one day and one computer**. You can now report this for the whole network by clicking on the groups. Like this you build average usage values. You can also widen the period of time if you like.

Lan-Inspector 11 Enterprise

Software group usage report

Reporting period start to end: 13.03.2018 to 12.04.2018

Execute query! Re-scan relevant pcs

Selection: Counted day sets: 1 on Number of Computers: 1

Ø day runtime: (OS-Uptime): 03:23:00

A standard day has n' hours: 8.5 Change

Resolve packets to Exe-files!

Paketname	Ø Package time/day (abs)	Ø Fraction of OS uptime	Ø Fraction/norm. day time
... escalatedprivilegefileoperationdaemon.exe	00:00:00	0.00 %	0.00 %
... indesign.exe	00:01:40	0.82 %	0.33 %
Microsoft Office Home and Business 2016	03:22:30	99.75 %	39.71 %
... excel.exe	00:00:00	0.00 %	0.00 %
... winword.exe	00:52:50	26.03 %	10.36 %
... excelcnv.exe	00:00:00	0.00 %	0.00 %
... clview.exe	00:00:00	0.00 %	0.00 %
... graph.exe	00:00:00	0.00 %	0.00 %
... onenote.exe	00:00:00	0.00 %	0.00 %
... outlook.exe	03:22:30	99.75 %	39.71 %
... powerpnt.exe	00:00:00	0.00 %	0.00 %
Visual Studio Professional 2017	03:23:00	100.00 %	39.80 %
... blend.exe	00:00:00	0.00 %	0.00 %
... ddconfigca.exe	00:00:00	0.00 %	0.00 %
... devenv.exe	03:23:00	100.00 %	39.80 %
... mspdbsrv.exe	00:43:30	21.43 %	8.53 %
... scriptedsandbox32.exe	00:00:00	0.00 %	0.00 %
... scriptedsandbox64.exe	00:00:00	0.00 %	0.00 %
... tailoreddeploy.exe	00:00:00	0.00 %	0.00 %

Scan Licenses: 31980 / used 357 administrator@VL-LANI1 (Diagnosis mode) Build #11060

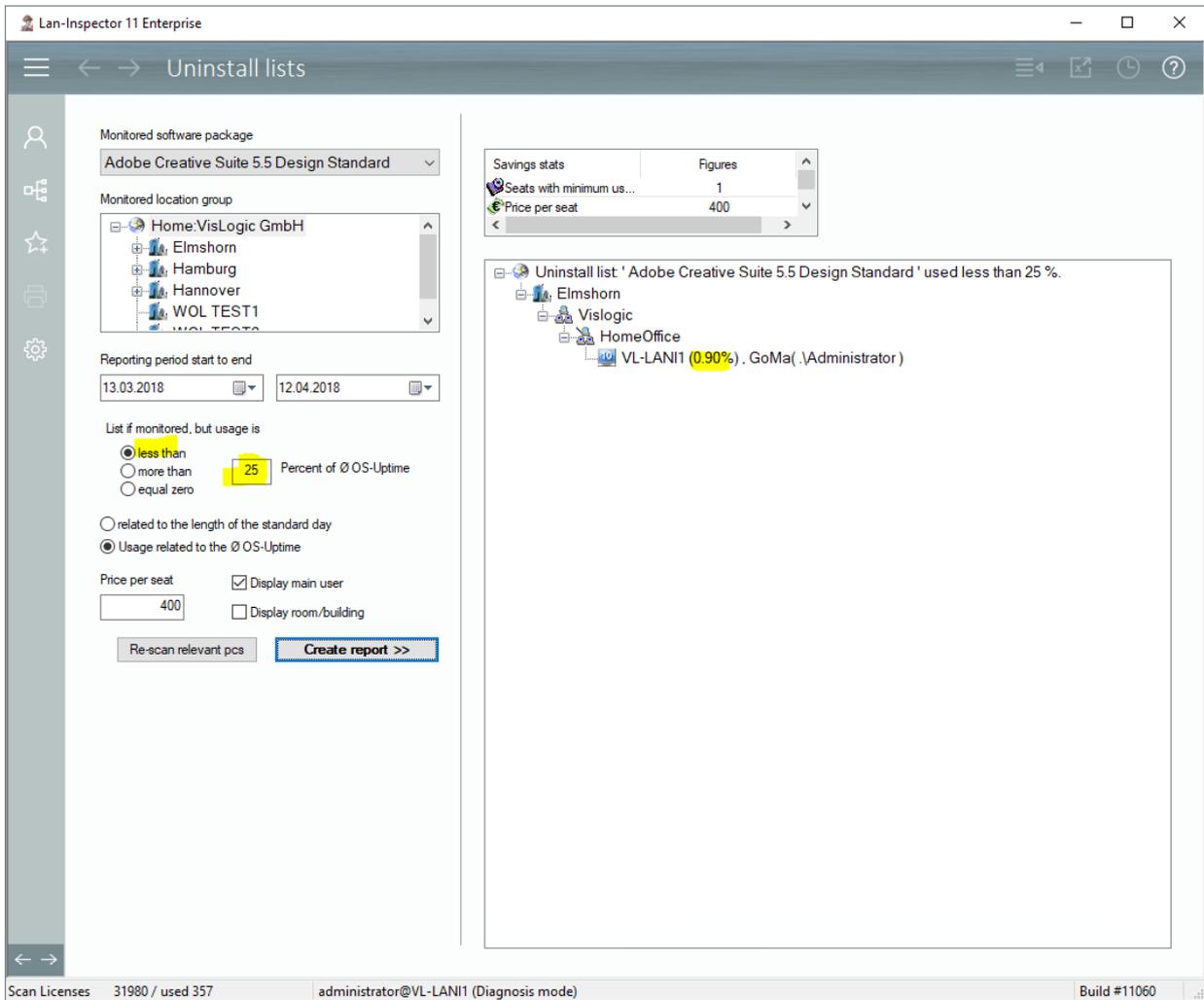
6.7.5 Possible Savings / Uninstall Lists

Diese

This combined query offers research if the monitored Software packages are frequently started or used seldomly. This makes it easy to find products in the network that are installed but almost never used.

Select the usage package of interest in the drop-down list. How you define usage packages you can read in the section 6.7.3 Configure Usage Packages. Furthermore, you can select the scope of the calculation by choosing a branch of the tree of locations. And finally, you can specify the period of time the query will take place in.

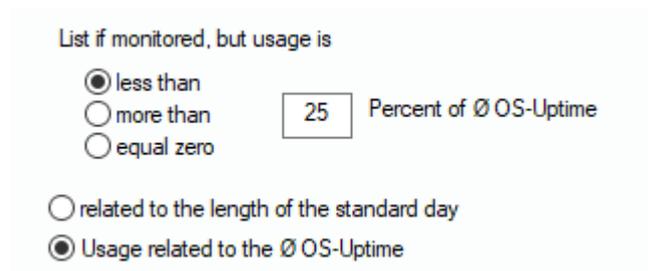
You have three options for the calculation of the result: a) products used very seldomly, b) products used very often and c) products never used (equal zero). In a) and b) you can enter a percentage value. List all computers where Adobe Creative Suite is used less than 25% of the daily runtime.



6.7.5.1 Find devices - standard day / uptime

Usage "related to the length of the standard day" means that the average percentage is derived from the length of the standard day which is 8.5 hours per default.

"Usage related to the OS-Uptime" means that the percentage is calculated in relation to the average daily up-time of the computers.



The result will contain all PCs one could consider uninstalling the software in order to save licenses.

6.8 Report Management

Der

The Lan-Inspector offers various tools to collect the inventory of software installations and hardware efficiently. Additionally, it helps the administrators do their daily work. A very effective part of it is the integrated report management.

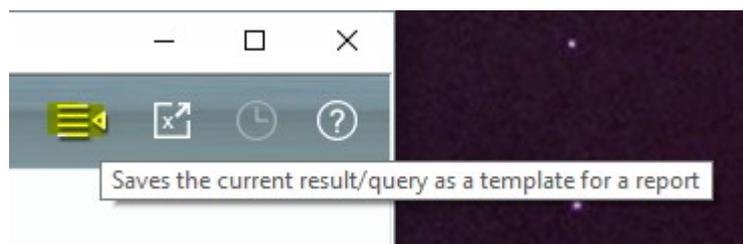


All queries or views of data sheets you do in the Lan-Inspector can be saved as templates for reports including all parameters you used.

You can repeat the same queries with only a few clicks without the need of setting all parameters again. You can configure schedulers that execute the report pattern and send the results regularly via e-mail to any e-mailbox(es) you want. Why not configure the Lan-Inspector in a way that he sends license balances every first day of the month via e-mail to all the persons responsible?

6.8.1 Generate Report Templates from the Views

To generate a report template from a view, just do the query you want. For example, you to "Inventory Management/Search & Query" (6.3.5 Search And Query). Here, you set all the needed parameters for the query. Change or modify the column layout if necessary. Execute the query and verify if the results match your needs. If everything looks good, you can save exactly this pattern as a report template. Click on the "report icon" in the top menu bar:



The query including all parameters and column layout will be saved as a template which can be accessed in **“Report Management/Deposited Reports”**. Here you can benefit by further options.

6.8.2 Deposited Reports

This is the main part of the report management. You see a list of all report templates and their primary configuration options. If you click on one entry, all its parameters will show up in the bottom part of the window. You can edit the additional options there and **“Save”** the configuration afterwards.

The screenshot shows the 'Deposited Reports' window in Lan-Inspector 11 Enterprise. The window title is 'Lan-Inspector 11 Enterprise' and the subtitle is 'Deposited Reports'. There are navigation buttons (back, forward) and a search icon. Below the title bar, there are tabs: 'Wizard', 'Report import', 'Own company logo', and 'Email setup'. The main area contains a table of reports:

ID	Report name	Report type	Ac...	How	last used on	Created on	Creator	Mode
1	ComplianceReport	ComplianceLevelReport	no	csv,email	...	...	administrator	public
2	Ohne-SP1	PcListWithoutSingleSo...	no	csv,email	...	...	administrator	public
3	Summe-neu	SoftwareSumsInTree	no	html,em,...	...	...	administrator	public
4	OhneSilverlight	PcListWithoutSingleSo...	no	csv	...	...	administrator	public
5	ohne-silverlight	PcListWithoutSingleSo...	no	csv	...	...	administrator	public
6	Neu	PcListWithoutSingleSo...	no	...	...	...	administrator	public
7	SAM-MS	SAM-Essentials PC Re...	yes	csv html	18. Mar. 2015	...	administrator	public
8	Mit-SP2-für-Office	PcListWithSingleSoftw...	no	...	...	...	administrator	public
9	Access2010	PcListWithSingleSoftw...	no	email	...	...	administrator	public
10	Adobe_Selbstauskunft_Einze...	AdobeSelfRequest+Fil...	no	...	...	...	administrator	public

On the right side of the table, there are buttons: 'Execute / edit', 'HTML dump', 'Csv in Excel', 'Send email', 'Report export', and 'Delete'. Below the table is the 'Report details' section:

Report details

Report name: Report type:

Private report. Not visible to other users.

Description:

Archive files in:

HTML/CSS report
 csv table export
 Email to (Semicolon separates multiple addresses)

Individual automation

Activate report time scheduler
Time of:

Every week
 On Mondays
 On Tuesdays
 On Wednesdays
 On Thursdays
 On Fridays
 On Saturdays
 On Sundays

Once in a month day

At the bottom of the window, there is a status bar with the following information: Scan Licenses 31980 / used 357, administrator@VL-LANI1 (Diagnosis mode), Build #11060.

6.8.2.1 Execute or Edit Deposited Reports

If you want to execute one of the deposited reports, just select the corresponding entry and click on **“Execute / edit”**. The Lan-Inspector will jump into the associated view, changes all parameters in accordance to the template and executes the query. This **manual triggering won't send e-mails** even if the report template is configured to send them. When the process is finished, usually a button appears, **“Save Changed Report”**. If you adjust the parameters and query again, you might

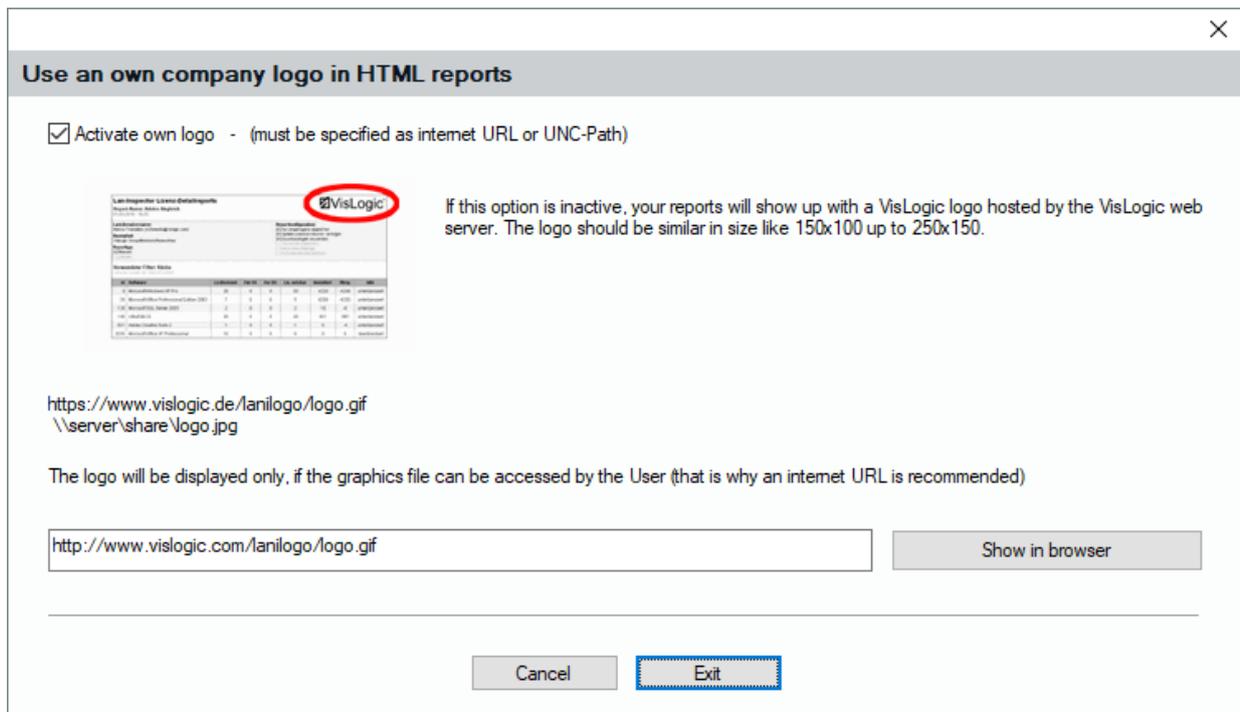
want to change the deposited template. By clicking on **“Save Changed Report”** in the view, you change the template accordingly.

6.8.2.2 HTML Report, CSV Dump, XLS Dump and E-Mail Sender

If you need a nice and neat report you can print later on, click on **“HTML dump”**. If you need the dump directly in Excel, click on **“Csv in Excel”**. The button **“Send email”** requires that you have configured a working server configuration. To check this visit **“Administration and Settings/ Sendmail Configuration”**. You can click on **“E-Mail setup”** at the top of the view as well, see 6.9.6 Sendmail Configuration.

6.8.2.3 Own Company Logo in HTML Dumps

If you click **“Own Company Logo”** at the top of the window, you can set your own company logo at the upper right corner of the HTML reports. Just activate the function by enabling the option box. Additionally, you need to provide the path to the logo. If you create reports only from your PC, you can use a normal path in the local file system. For reports that are functional in the network, you should prefer an UNC path. If you like to view the Reports from outside the network, in the internet, you can provide a http path.



6.8.2.4 Report Details, Scheduled Reports and Delivery Options

After you have created a report template, you can execute it by clicking only one button. You can send it to Excel or display it in the HTML version. You can activate a scheduler that automates the execution of the report and may send the results via e-mail to one or more user mailboxes.

Important: It is not enough that you activate the option “**Activate report time scheduler**”. You also have to activate the automation functions. If they are switched off, the Lan-Inspector prompts you with a note to this. Afterwards it asks if you want to activate the automation functionality as well. If you use the professional Edition, the program needs to run for the time the scheduler is supposed to work. In the Enterprise Edition everything is done by some background tasks.

Report details

Report name: Report type:

Private report. Not visible to other users.

Description:

Archive files in:

HTML/CSS report
 csv table export
 Email to (Semicolon separates multiple addresses)

Individual automation

Activate report time scheduler
Time of:

Every week

- On mondays
- On tuesdays
- On wednesdays
- On thursdays
- On fridays
- On saturdays
- On sundays

Once in a month day

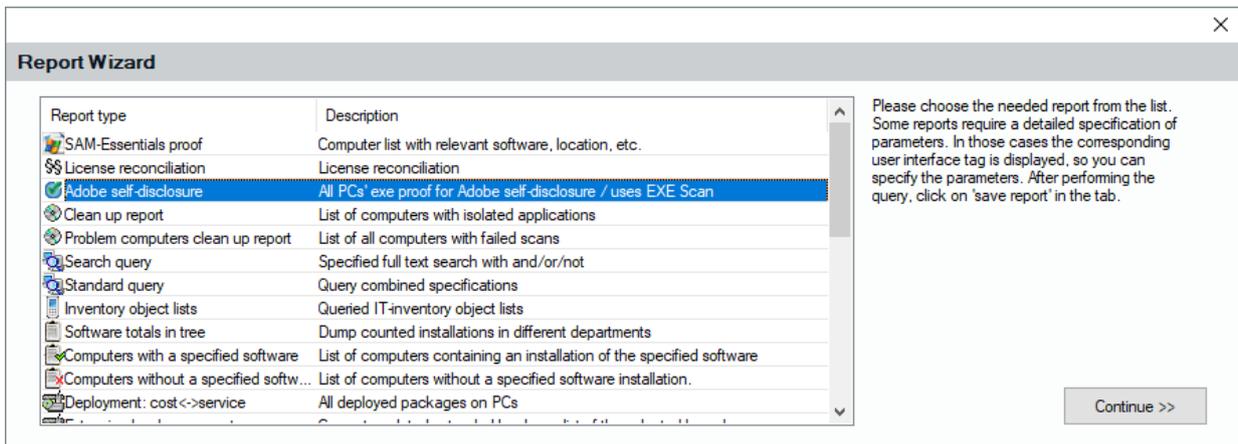
6.8.2.5 Private Reports

Enabling the option “**Private Report**” makes the current template invisible to other users. Next to you, only the Lan-Inspector user account “Administrator” can see, modify or execute the report template.

6.8.3 Report Wizard

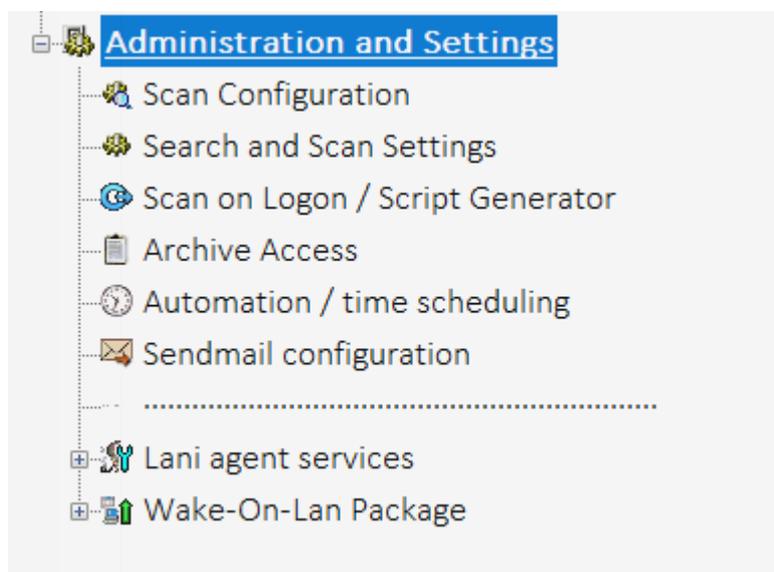
Creating a report template from the various Lan-Inspector views via the report icon is one way of doing it. You can also start the template from the original report view “Deposited Reports”. You can start the report wizard by clicking on the button “**Wizard**”. The wizard has a list of possible raw templates. If you choose one, several windows will ask you for additional information needed by the individual templates.

The wizard leads you to the point where you need to execute the query in the corresponding view. When the result is finished, you can click on **"Save changed Report"**. It is possible that you are still in editor mode if you had opened another entry before. In that case, the Lan-Inspector asks if you want to overwrite the old entry or If you want to create a now one.



6.9 Administration and Settings

Next to the plain discovery of inventory (hardware and software) the Lan-Inspector also offers a variety of effective tools for the administrator. These are software start prevention in blacklist / whitelist, see 6.6 Blacklist and Whitelist / Remote Software Start Prevention, Wake on Lan functions, or one ideally implemented function for data base archives. It allows, for example, that you can recall every day of the past and execute your queries on the data or that point of time.



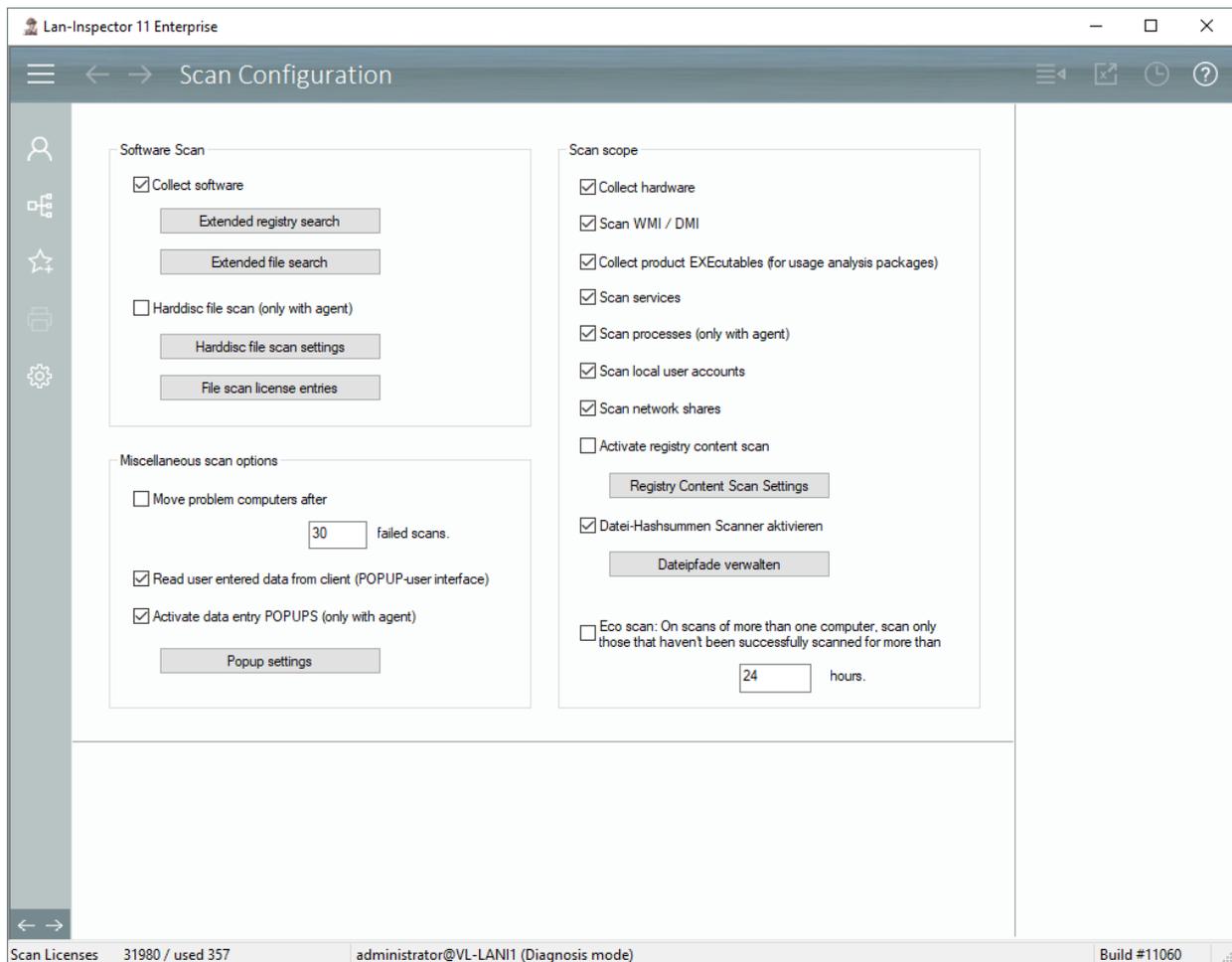
6.9.1 Scan Configuration

You can specify all actions that will take place during a manual scan here. You can provide further details to the different functions like setting path descriptions, registry keys or specifications for popup windows, etc. These are settings that are valid globally. If you set the functions to “active” here, they will take place during manual scans.

If you use the automation features / the time scheduler, the further specifications are valid as well. To activate the functions themselves for time scheduling, you need to configure it at different position, see 6.9.5 Automation/ Time scheduling | **”Administration and Settings/Automation Time Scheduling“**.

Most points are self-explanatory. The GUI contains several buttons that call dialogs where you can do further specifications for the different functions.

Important: The functions “Read user entered data from client/POPUP“ and “Registry content scan“ cannot be used together. Both functions write into the 20 object data fields.



6.9.1.1 Find computers with problems and separate them

You can use this function to identify “dead” computers that couldn’t be reached for a long time. The Lan-Inspector cannot know if a computer is still active or if it just exists in the data base while in reality it has long been taken away. But the system knows how often a computer failed a scan.

If the counter of failed scans for an individual computer reaches a specified value, the computer either has problems or it is probably “dead”. In both cases you can become active: fix the problems locally on the client or remove the object from the data base. If the critical value is reached, the objected computers will be sorted into another group in the tree of locations: “**Problem computers**”. If this group doesn’t exist, the system will create it automatically. You can then have a look at the computers of this group to work on the problems. Either delete the object or fix the problem.

In case you have fixed the problem and if the computer doesn’t fail the scan anymore, the system automatically pushes it back into its original group.

6.9.1.2 Extended Registry Search

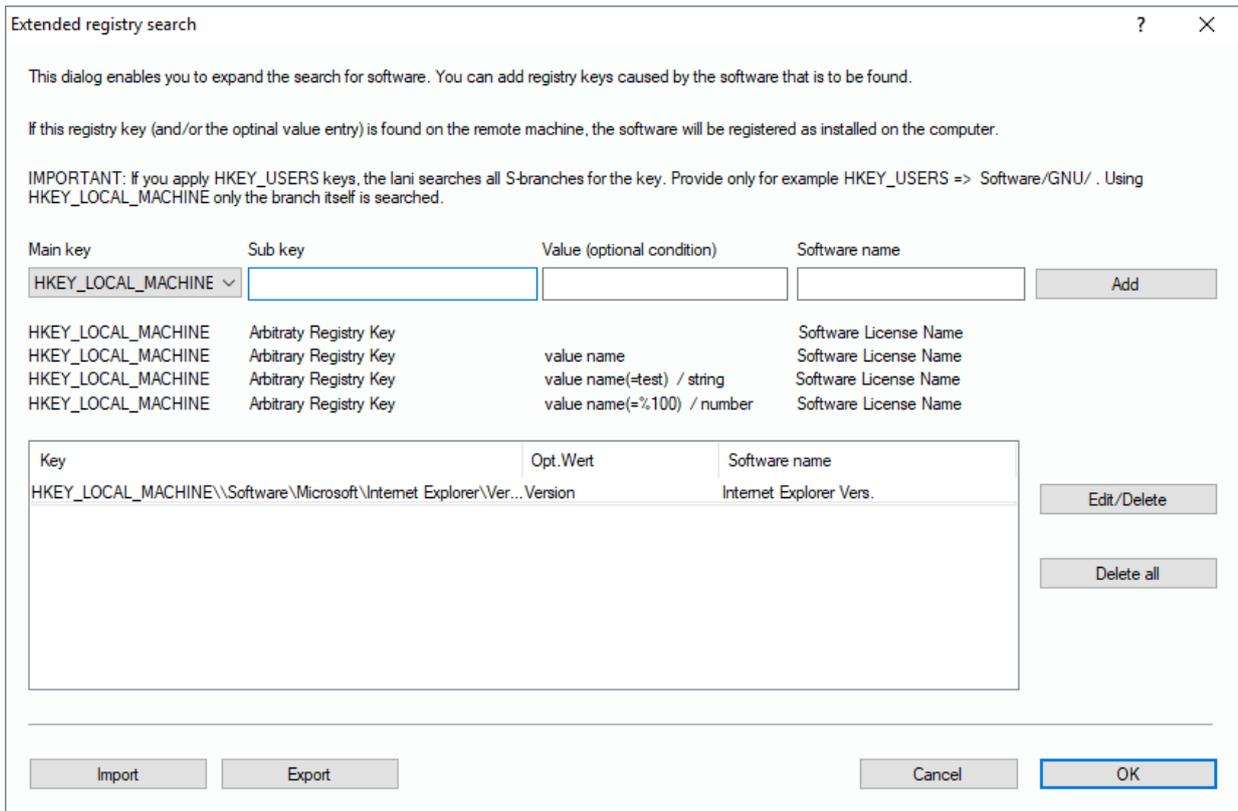
Over the years, it has become a standard that installers register their software in the registry data base of the computer. However, there are products that use exotic methods that don't use this standard. If the exe files are not known to the system, you can manually add a significant registry key to the scan-engine here, in order to refine the software scan.

Example:

```
HKEY_LOCAL_MACHINE\SOFTWARE\VisLogic\LANInspector
```

During a scan the Lan-Inspector searches the remote computer for this registry key. If it is found, a user-defined name of a software product will be added to the scan record set. Compared to the extended file registry search (see below), this is the faster method. You can decide if you just search for a key, or for a specified value which can be a string or a number.

If you search for a value "NAME" that you expect to be "Martin". You set the optional value condition to "name=Martin". Name is the name of the entry and "Martin" is its value. In accordance to that you can also provide numbers. They are tagged with "%". If you search for the content of the entry "counter", you would enter "counter=%50". If the condition is fulfilled, the software entry will be added to the record set of the scan.



6.9.1.3 Extended File Software Search

In analogy to the extended registry search, you can specify files as a marker for a software on the remote computers. If the file exists on the hard disc the named software product will be added to the scan record of that computer.

Please note that this function looks for one file to identify an installed software product. This is not a file collector like the function hard disc file scan, see 6.9.1.6 Partition File Scan Settings.

Extended file search

The entries you have made can be disabled and re-enabled for scans by changing the option 'Activated'.
 Every software is recognized by some unique filenames (i.e. laninspector.exe). Here you can search the remote hard drives for unwanted files. Please adjust the timeouts, this may take very long per computer.

Software name for lani database (Lani-entry)

Search in remote: Path description: Check file name Check file length (in bytes)

Search all sub directories recursively Activated

Software name	Path	Additional	State	Recursive

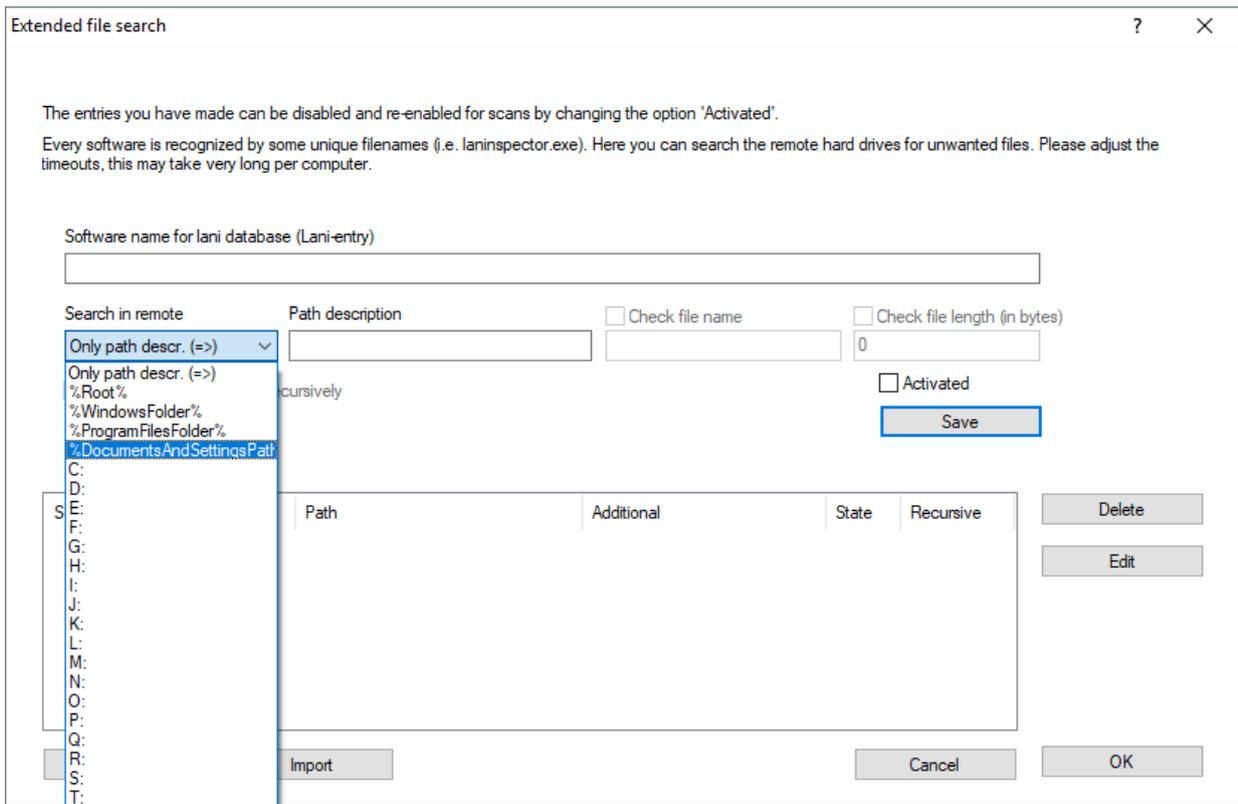
There are two modes you can configure for extended file searches: “Only path description” and “Search in Partitions”.

6.9.1.4 Only path descr. (=>)

If you select this method, you need to enter a complete file path in path description including the full name of the file with extension. This can be an exe file, a .lnk file, a DLL or everything else. The scanner looks for this path on the remote computer. If the file exists, the specified name of the software product will be added to the record. You provide the path as if it were on the local hard disc. The scan engine changes the path to an UNC-version that uses the \$-shares to look for the file remotely.

6.9.1.5 Search in Partitions

You can also switch to partition mode where you can scan for files and file lengths. Select the partition of interest from the drop-down list. You specify the initial directory where the search starts. There is also an option “Search in sub directories recursively”, if you don’t know the exact place of the file. This way you can search complete partitions if needed, but be careful, each entry will do the search which can consume a lot of scan time.



The more adequate you provide the initial directory the faster will be the scan.

6.9.1.6 Partition File Scan Settings

A very impacting function to refine the inventory data base of your network is the partition file scanner. You specify a search pattern and all files on the remote hard discs that match this pattern will be scanned, information about them will be collected and saved to the data base. Afterwards the information can also be accessed via the full text search of "Search & Scan". You can use this functions to collect information about mp3 files or lost doc files in your network.

Harddisc file scan settings

File scan activated This file scan is ONLY AN ADDITIONAL FUNCTION! 97% of all software can be retrieved via combined registry and file scan method.

Data protection policies

Client users have to agree. Each new client user must agree. The agreement is stored permanently. Following file scans will be executed without any problems.

All agreements are deleted after a file scan and have to be renewed next time. This is optimal protection for the occupants. Actually only every second file scan will be successful, because the user can not agree in the moment of the scan. He agrees for next time.

Pop up message when user is prompted to agree:

Der Administrator wants to take an inventory snapshot of your computer. Click on "No" if you want to clean-up first.

Show

You can specify fragments or full strings, separated by comma, which will be searched for on the remote harddiscs. If the search pattern matches, the corresponding file information will be added to the computer record set. You will see results in Object Detail View / in Tab File Scan.

Search mask (Full text search in file names)

.mp3,.exe,.avi,.mkv|

Min. file length in KB

10

Max. file length in KB

100000

Max. sub directory depth

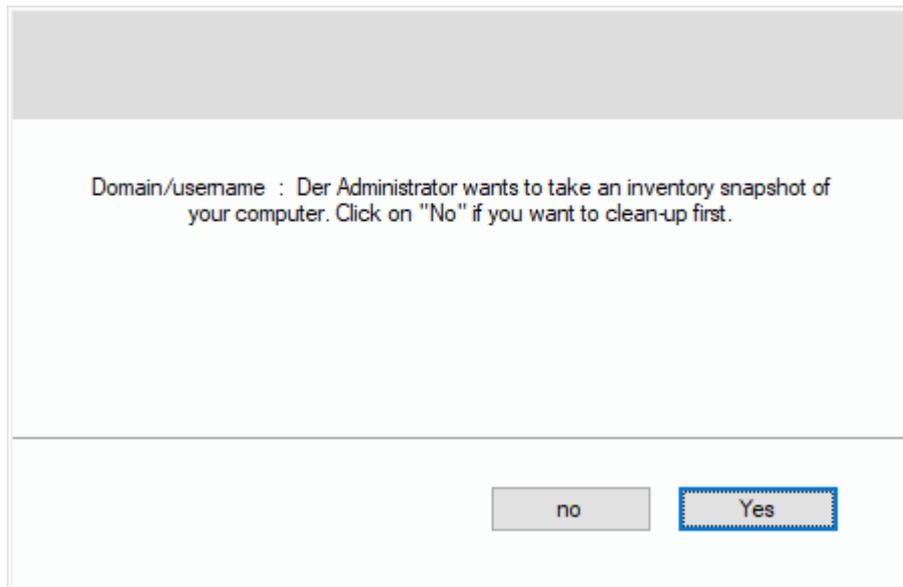
64

Search only full strings (no fragments)

Cancel OK

6.9.1.7 Users have to agree to Partition File Scan

This function should only be used if the users of the local PCs agree to it. You can configure a popup window that will ask for their approval, before the search starts. This popup window will ask for the approval asynchronously. It may be necessary to re-scan the computer to get the file scan results if the user didn't click "yes" in time. As long as you have activated the function, the question for approval will reappear until the users agree. If they decline, the scan won't happen. This way, you can achieve that the users will clean-up their private stuff that doesn't belong on the company's computers.



6.9.1.8 Search only full strings (no fragments)

If you set this option, the file scanner will only search for full file names. By default, it uses a pattern search where you can provide fragments of words. The search mask “word” would find “winword.exe” in a pattern search. The search mask “.exe” will dump all exe files of the search scope.

6.9.1.9 File Scan License Entries

The file scanner can deliver far more than the mere dumping of exe files. You can find all AVIs, MP3s, METs, m4a. files if you need. You are free to define the search mask. Please don't use wildcards here, just use the fragments of what you search separated by commas. Of course, you can also specify whole file names like “SAPLogon.exe”. The result will be that you get all existing SAPLogon.exes in your network. In Object Detail view, you can browse the file scan results, including the version number of the files.

If you want to mark certain files to be significant for a software product not found elsewhere, you can use the “**file scan license entries**”.

File scan license entries

Files will be listed in the object detail tree. If you want to upgrade a file to a license entry, just double click the object detail tree branch to open this dialog directly.

Sign up files to be license entries

File name	File length in bytes (0=ignore)	License name
<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>

Save

File name	Length bytes	License name
START.HTM	0	PowerPoint Lemstation 2003

Edit

Delete

Import Apply to database now Cancel OK

You can specify name and length of a file which will cause that a record for license name will be added to the computers record set. If the file is among the file scan results of a remote computer, the specified software name (License name) will be added to the computers' records.

IMPORTANT: If the hard disc file scanner is active, the "LAST USER" will be empty.

If a user has not approved the hard disc file scan, the function will fail on the corresponding computer.

6.9.1.10 File Scan Results in "Search & Query" view

You can use the **full text search** of "Search & Query" to access the file scan results of the computer record sets. Of course, these queries take some more time. In effect, if you configure it this way, you can setup a full text search on all files on the network.

6.9.1.11 User Popup Settings

The button "**Popup Settings**" opens the dialog for the popup configuration which is described here: 6.4.9 Configure Popup Input (local popup window).

6.9.1.12 Registry Content Scan Configuration

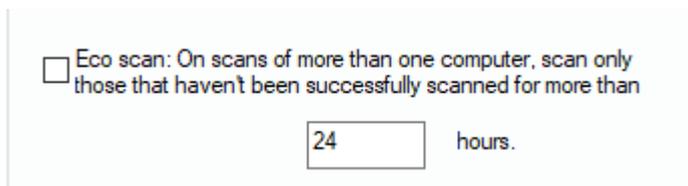
Using the registry content scan allows to read arbitrary values from the remote computers and write them directly into the 20 object data fields of the computers' record set. This function helps set up a variety of work-arounds for the administrator.

6.9.1.13 Activate File Hash Sum Scanner

You will find specific information about hash sum retrieval and the configuration here: 6.4.4 Hash-Sum Browser“. The button below the option field will lead you to the configuration dialog of the function which is described here: 6.4.4.1 Hash Scan Configuration“.

6.9.1.14 Eco-Scan Option

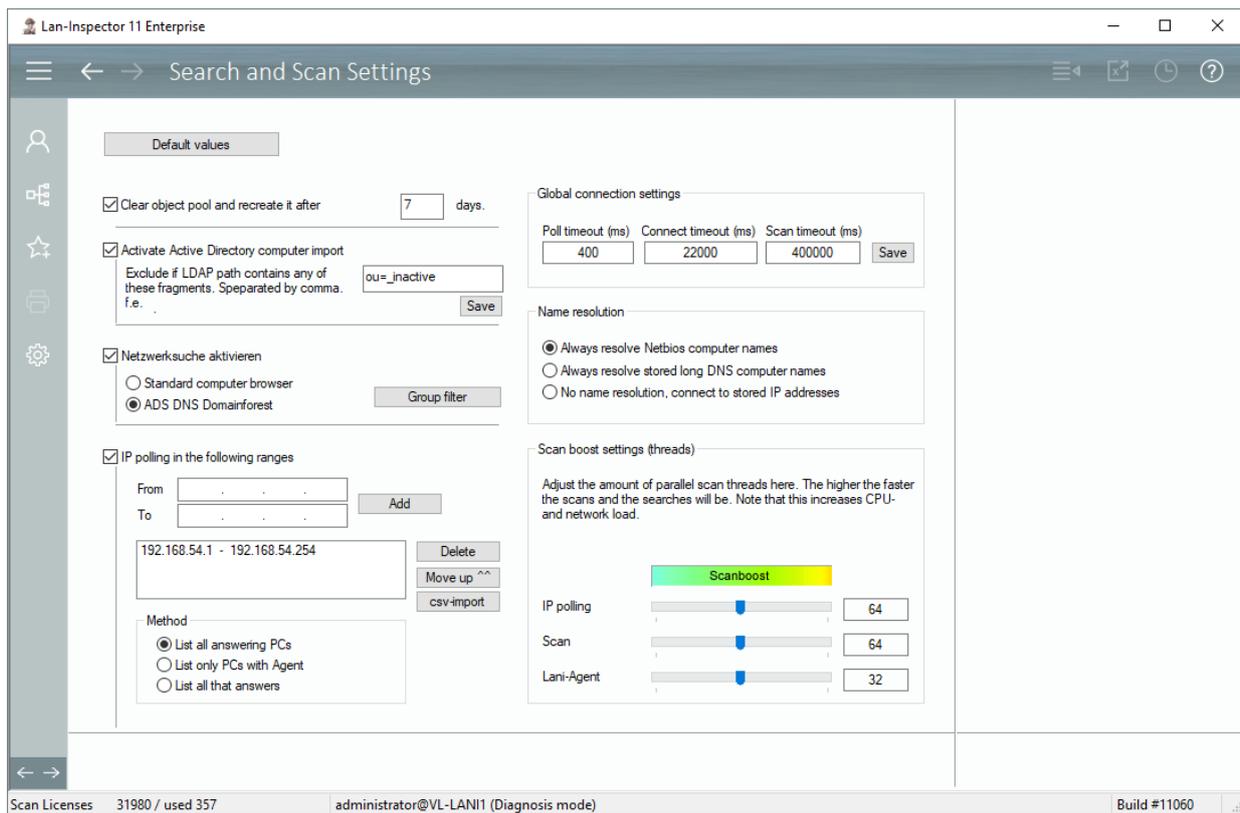
This is an optional feature to save network load which is only necessary in larger networks. If it is active, every computer is scanned only once per time interval if the scan was successful. If you activate it and the interval is 24 hours, you can scan the PC with success. Afterwards, within the time interval, you can press as many times as you want, the computer won't be scanned again.



6.9.2 Such- und Scaneinstellungen

The network search for scannable computers is an integral part of inventory. Lan-Inspector provides all capabilities: Direct object import from Active Directory of your domain, computer browser search, ADS-search and IP-polling for specific ranges. You will find all the objects or computers found that way within the pool of unassociated computers, see 6.3.1 Location Tree and Network Search or “**Inventory Management/Location tree and Network Search**”.

Optionally, you can determine whether to have the pool always populated incrementally, or to have it deleted after a specified number of days and recreated later. This could stop dragging along old computers in the database.



6.9.2.1 Active Directory Computer Import

ADS import is an extremely reliable acquisition of computer objects. Here you will find all the computers added to the domain, regardless of them being online or offline. Contrary to other functions, this import function is not depended on a computer currently running. All the other search methods require the computer to be online at the time of searching.

If you activate this search method, the pool of unassociated computers shows the OU structure of your domain tree and all the contained computers and servers are imported.

To limit the import, you can enter fragments that will prevent the import of objects if they appear in the AD path. For example, entering the standard organization unit “ou=_inactive” will prevent the import of inactive objects. You can also separate multiple fragments by comma and force additional connections.

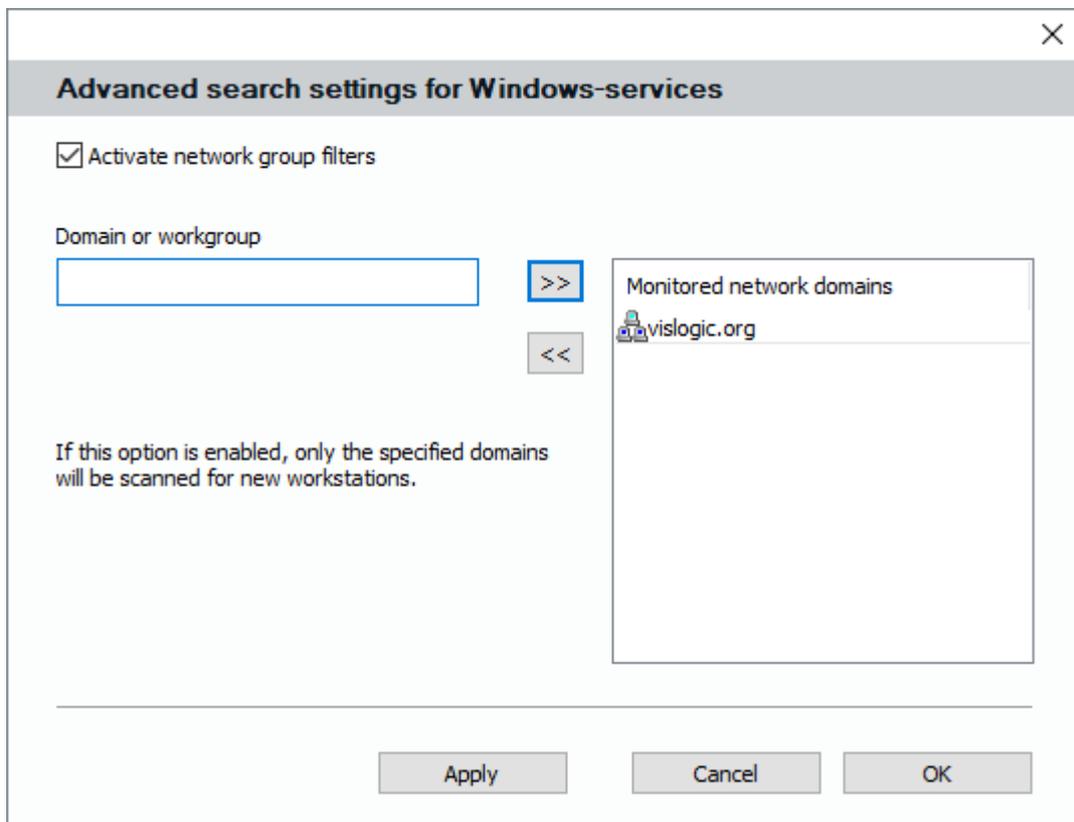
6.9.2.2 Standard Network Search

This search method retrieves the computer list of computer browsers Microsoft provides. In order for this to work, the computer search service needs to run on all the computers you want to search.

If you cannot find a computer in Explorer under Network Connections, it will not appear in the standard computer search.

6.9.2.3 Network Group filter

If you work within a network connecting different companies that do not have anything to do with each other, you should limit the domains you want to considered. Click the “Group filter” button and you can enter a list of considered domains. This will search computers of this domain and/or these workgroups only.



6.9.2.4 Search via IP Polling

IP polling allows you to find all computers with installed TCP/IP protocol. Depending on the selected search model, you can search for all replying PCs, all replying PCs with running Lani agent, or simply everything that replies to a ping. This includes other network objects such as network printers etc. Everything not containing a computer signature appears within the pool with the OB_IP_Address name convention.

Performing a polling requires that you enter the corresponding IP ranges to search.

6.9.2.5 Import IP-Ranges via csv

In case you need to enter many ranges, a quick csv-import interface is available.

csv format: IP-range START;IP-range END (LF)

If IP-range END is not specified and at the beginning at START a broadcast address is entered (e.g. 192.168.54.0), the complete IP-range of the subnet is assumed.

6.9.2.6 Global Connection Settings

Depending on how you designed your network, you may have to adjust the timeout settings to reach computers. You can set the following parameters:

6.9.2.7 Name Resolution (IP Addressing)

If you use DHCP, you need to activate name resolution, in order to retrieve the corresponding IP-address constantly. If you have static IP-addresses, you can switch to "IP-addressing". This saves time when scanning. If you have sub-networks that do not allow name resolution from your position, IP-addressing in connection with your own location is useful.

6.9.2.8 Connect timeout

Connect timeout (ms) shows how long Lan-Inspector waits for a connection to the remote scannable computer. In case of standard lines, the value may need to be increased.

6.9.2.9 Scan timeout

This is the waiting time in ms for the scan process of a computer. In diagnostics mode, it should be at least 120000. If you enable additional features, such as hard disc file scan, you may have to increase this value for the scan of a computer to complete prior to timeout.

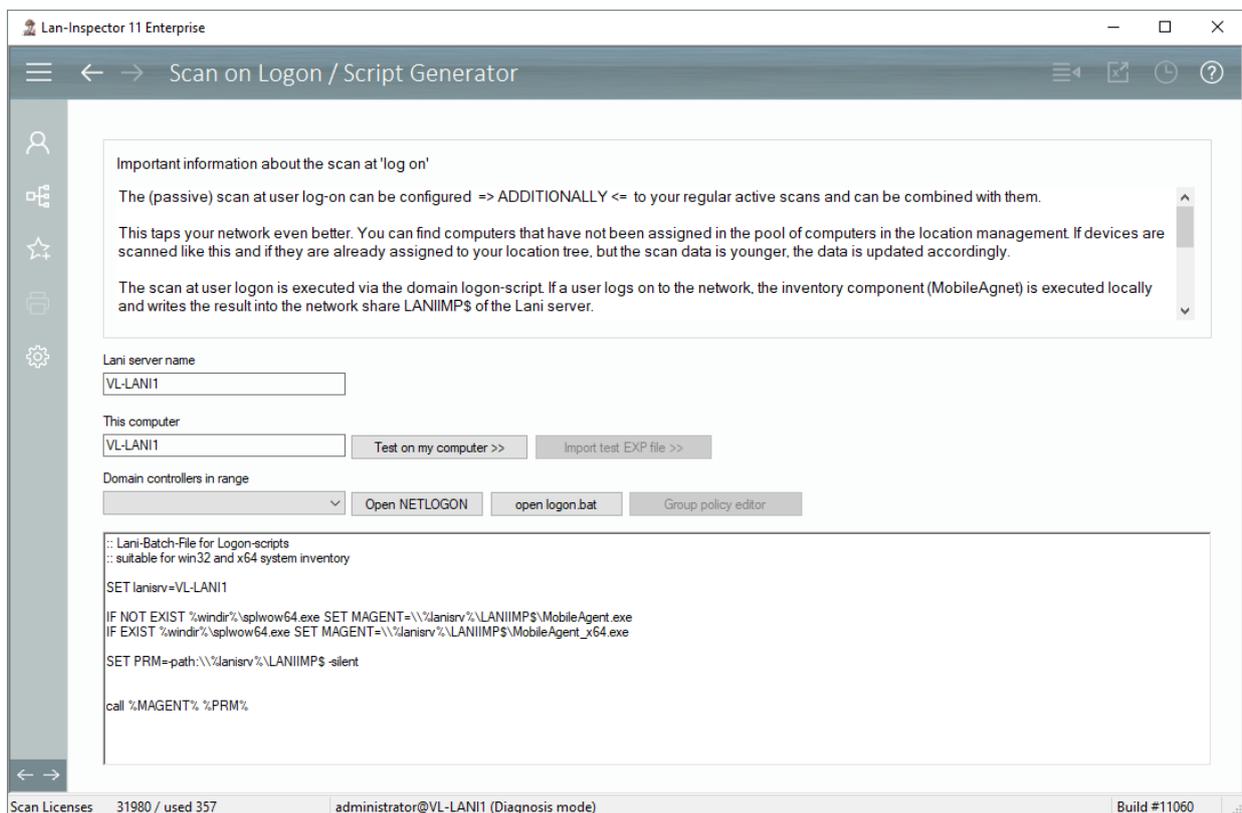
6.9.2.10 Network Load Balancing / Scan boost Settings

The Lan-Inspector is a cascaded multi-threading application. This means the simultaneous performance of many tasks and this happens even if many users work in different sessions. You can set the number of parallel tasks (threads) for the computer search, scans and the Lani agent

management (deployment) separately. We do not recommend setting a very high value for agent management.

6.9.3 Scan at Logon & Script Generator

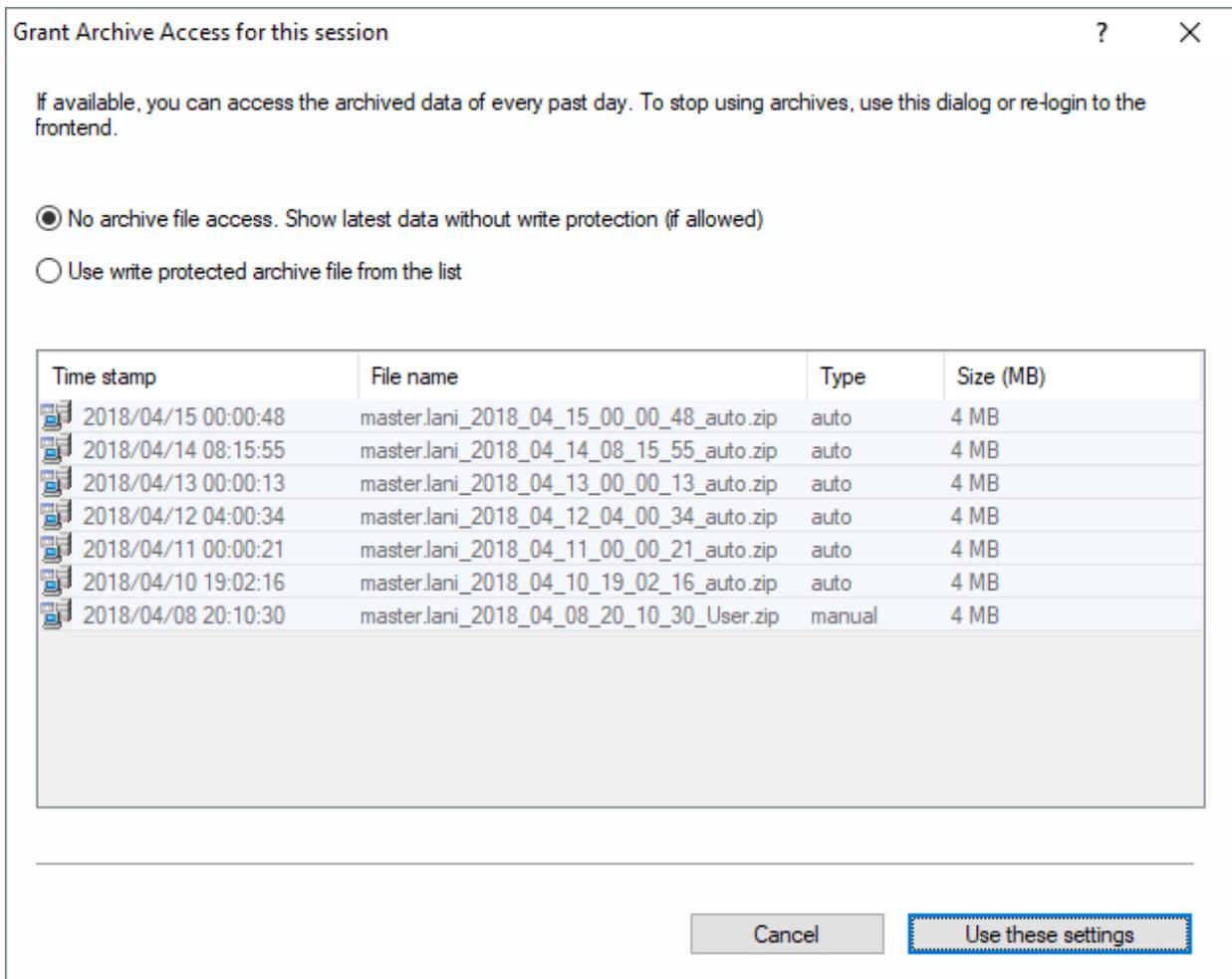
This function branch opens the script generator for a scan at logon. Please read the information in the text field. Scan at logon is an additional scanning mechanism supplementing the normal scans performed by the ScanEngine. Notebooks, while only logging in to the network briefly, can also be added to the database that way. Based on your Lan-Inspector installation, a script is generated that may serve as the basis for the integration into the logon script of your domain. It also provides information necessary to establish similar processes within group regulations. It is important to note that this process differs for X86 or X64 systems. There is a native x64 mobile agent.



6.9.4 Grant Archive Access

You can configure the backup and archive function for any number of days retrospectively on the Lani-Server. In the Lan-Inspector frontend, you can now set read-only access for each of the listed

days. The example shows only two backups however. An extra service creates daily backups. If you select a day for monitoring, you get read-only access to all functions and queries with the previous data stock.



6.9.4.1 Close archive and return to the current stock

To return to the latest state of data, choose “Noarchive...” in this dialog and click on “Use these settings”, or log-on to the frontend again.

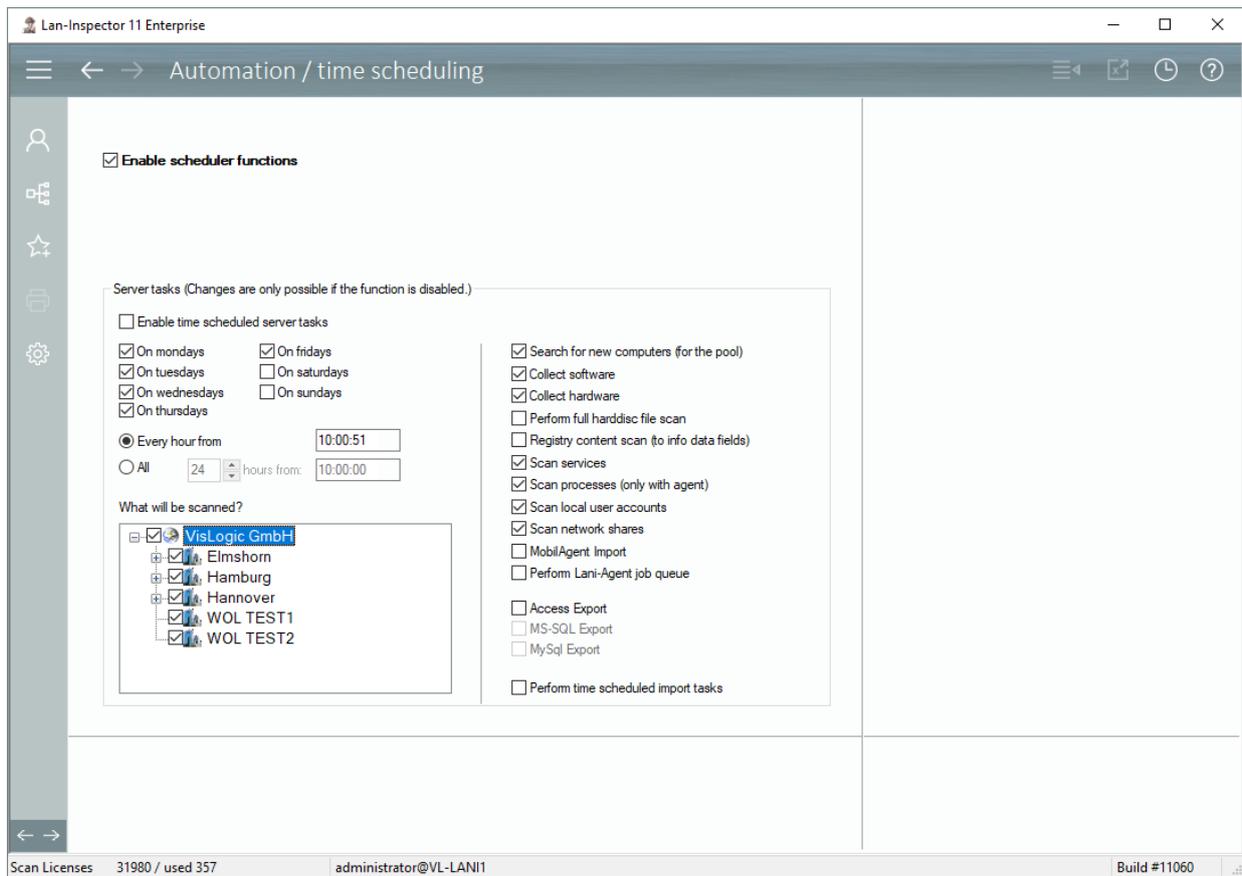
6.9.5 Automation/ Time scheduling

The time scheduling function within Lan-Inspector allows you to perform automated specified regular tasks. In this window, you can set all the automated processes.

6.9.5.1 Activating time scheduler functions

The Enterprise Edition logs a functional user on to a server session to provide automated tasks. This user appears as “scheduler@laniserver” in the session list in the server panel if time scheduling functions are enabled. This functional user processes the selected tasks.

The user performs reports and sends e-mails to recipients depending on the setting. He checks due license agreements within the license pool, sends reminders for due notice period and initiates network scans and file import and export.



6.9.5.2 Activating Scheduled Server Tasks

Tasks involving the server more strongly require you to enable them as extra server tasks. Here you can set the exact schedule while determining the kind of action you want to perform.

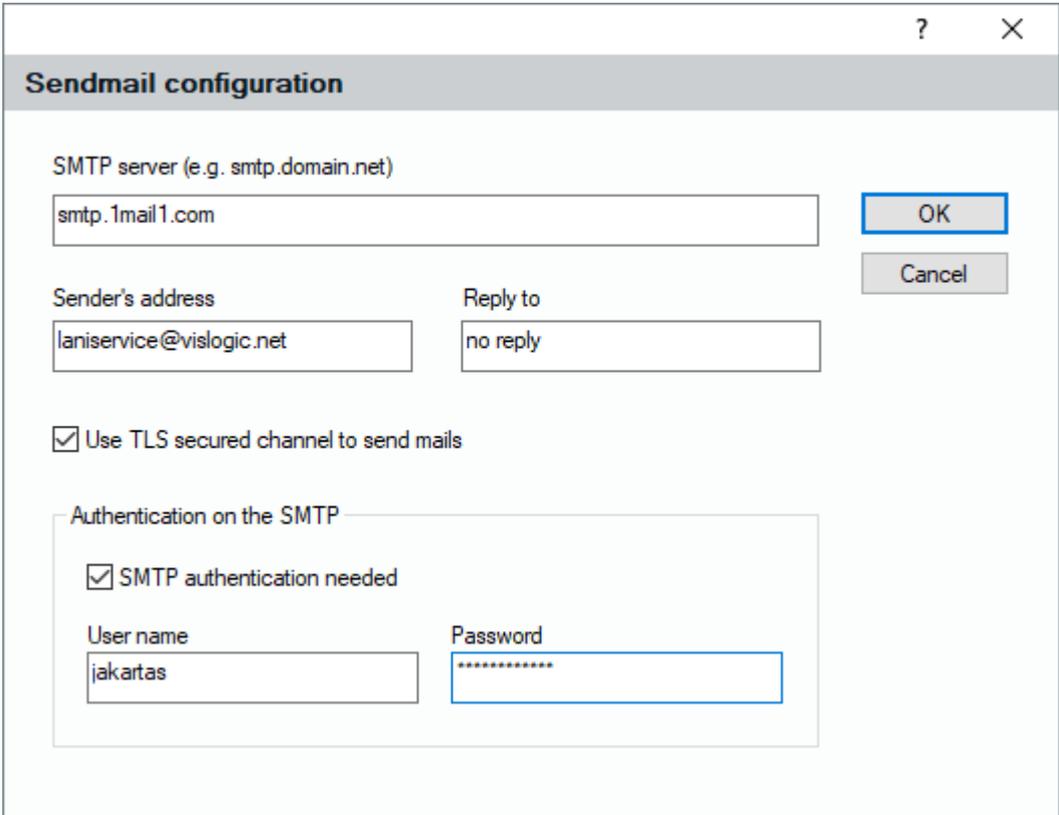
If you enable this option, most of the manual functions also are available as automated ones. You specify when and how to trigger a “schedule” and you define the tasks to perform successively from that moment on. In the bottom left corner of the tree, you can activate automated scans of

specified locations and/or groups selecting their check boxes. Please note that you have to select at least one of them (e.g. in the top branch), in order for a scan to start.

The figure shows two of the last four tasks as deactivated, because you have not performed or configured them manually, yet. If, for instance, the manual MS SQL export was successful and therefore its configuration is correct, you can achieve this task via time schedule as well. Read more on the export functions in the corresponding sections.

6.9.6 Sendmail Configuration

At many different locations, Lan-Inspector can send e-mails with queried content. For this, a SMTP server and some additional entries are required from you



The image shows a dialog box titled "Sendmail configuration". It contains the following fields and options:

- SMTP server (e.g. smtp.domain.net): smtp.1mail1.com
- Sender's address: laniservice@vislogic.net
- Reply to: no reply
- Use TLS secured channel to send mails
- Authentication on the SMTP:
 - SMTP authentication needed
 - User name: jakartas
 - Password: [masked]

Buttons: OK, Cancel

6.9.7 Lani Agent Services

Lani agents are client services of the Lan-Inspector. Depending on the system architecture (x86 or x64), corresponding agents are installed on the client PCs to be scanned while the scan is in

progress. Agents provide comprehensive functions on the clients, such as software usage analysis or software start prevention with EXE-logging.

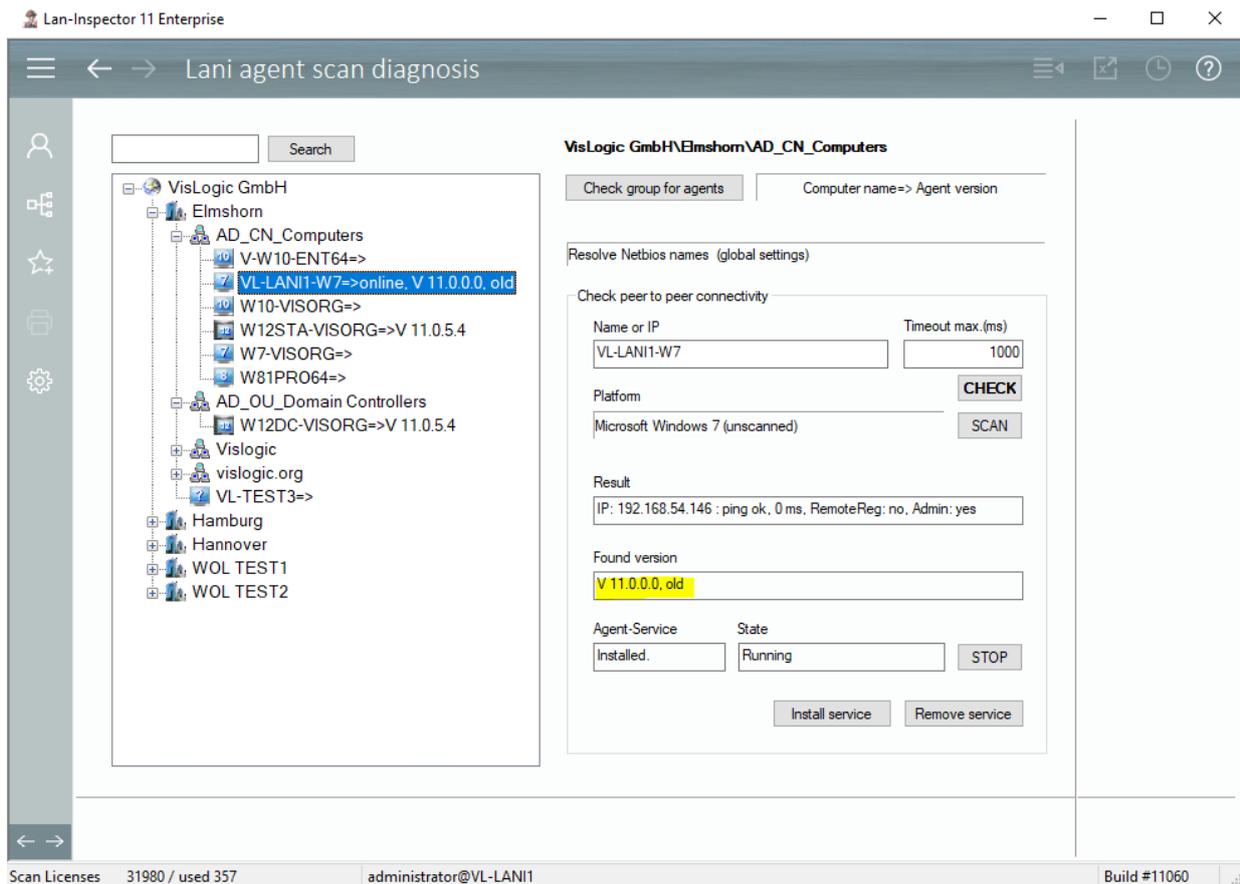
In standard configurations, the use of Lani agents work as follows: first, Lan-Inspector will install the agent, it performs the scan and then removes the agent again completely. This is a time-consuming approach and prevents advanced functions. If you wish to use Lan-Inspector productively, you should disable the deinstallation of the agent after the scan. In that case, the agent remains on the clients and will be available in the future or can perform its more permanent tasks. You can deactivate the deinstallation after the scan in the Lani agent settings (see below).

6.9.7.1 Problems caused by (anti)-virus solutions

Some anti-virus solutions sometimes cause false alarms. The agent is a network-compatible component with additional functionality. If you configured your virus solutions with heuristic detection, you cannot rule out false alarms. In this case, you can add LuBService.exe (C:\Programs\Laninspector\Lani-Agent_win32 or C:\Programs\Laninspector\Lani-Agent_x64) to the whitelist.

6.9.7.2 Lani Agent Scan Diagnostics

This dialog provides excellent capabilities to check or change the state of the Lani agents on client computers. In addition, scan diagnostics often help diagnosing scan issues and to check if the access rights will suffice. On the left side, you will see the location tree with detailed information on the state of the agent installation on the client PCs.



6.9.7.3 Peer to Peer Test

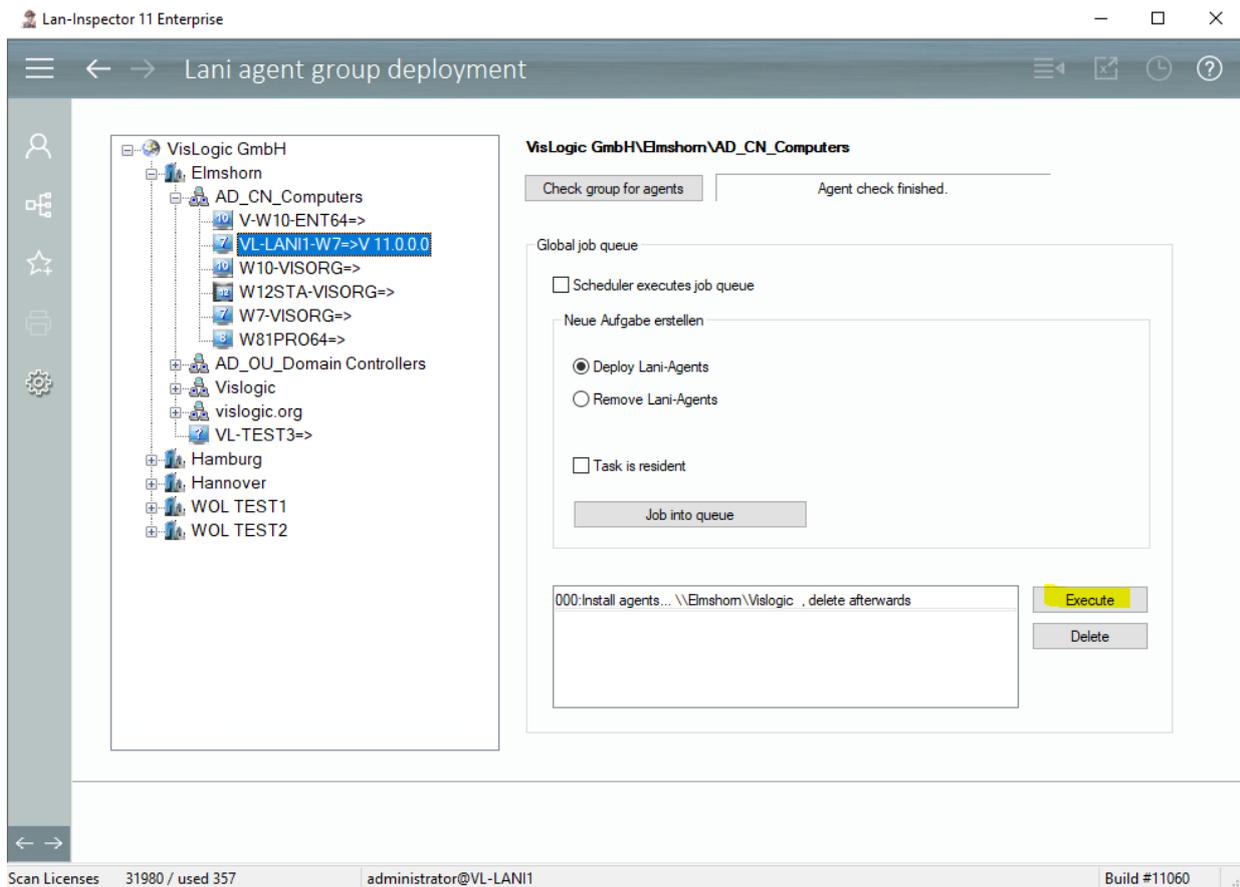
Now you can click individual computers and check them for response time, admin rights and Lani-agent status directly. If the computers are NT-based, you can install or deinstall Lani agents..

6.9.7.4 Checking a group for agents

This button allows you to check selected groups for the version of the Lani agent on the clients. The field at the right side of the button constantly shows the state of this check. On completion of the test, any results will appear within the tree following the computer objects.

6.9.7.5 Lani Agent Group Deployment

In this view, you can deploy agents on all the client PCs within a group or remove them. Select the corresponding group, the kind of action (Deploy/Remove) to take – and click “Job into queue”.



6.9.7.6 Deploy agents in groups

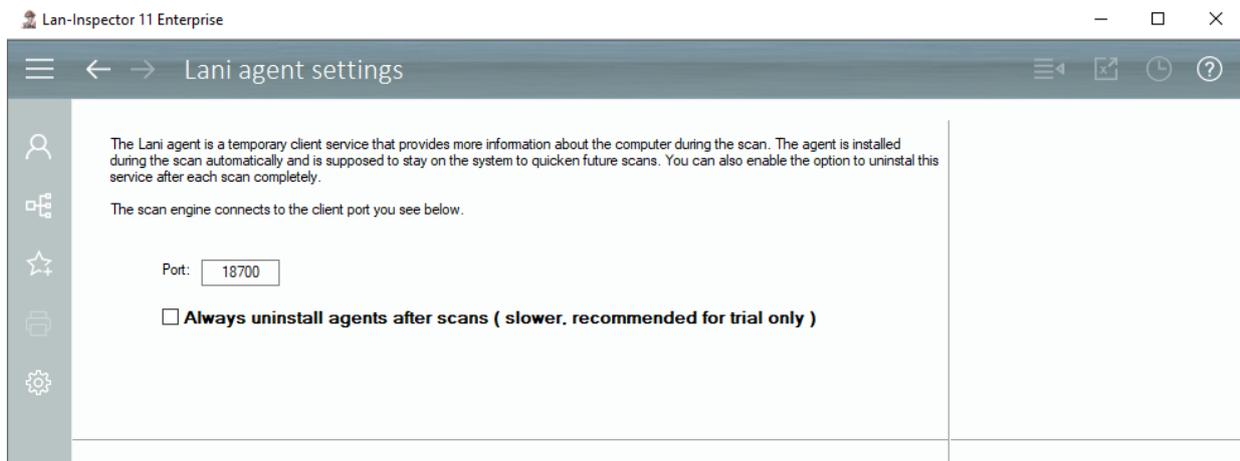
If you click a group or location branch, peer-to-peer check is unavailable. Instead, you enable group tasks. Depending on the selection in the tree, the dialog will create a task for the selected group.

6.9.7.7 Task is resident

We recommend this option, if you want to ensure the complete processing of all computers without exception. The task will be performed with each action (possibly via scheduler) until it is revoked. That way, you can be sure that the Lani will process all the computers within a group in a couple of days.

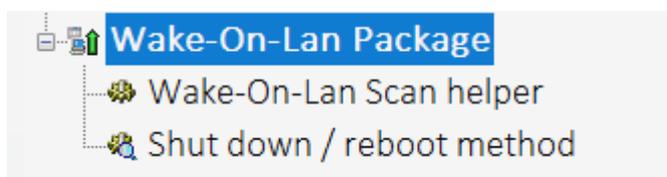
6.9.7.8 Lani Agent Settings

Dieser Dialog gibt Ihnen die Möglichkeit zu bestimmen, ob die Agenten nach dem Scan wieder deinstalliert werden sollen.



6.9.8 Wake-On-LAN Package (WOL)

This module (not available in Basic Edition) unlocks wake-on-LAN functions within Lan-Inspector. In addition to group-based context menus regarding wake-up/shutdown and reboot within the views under “Inventory Management”, further settings are available here:

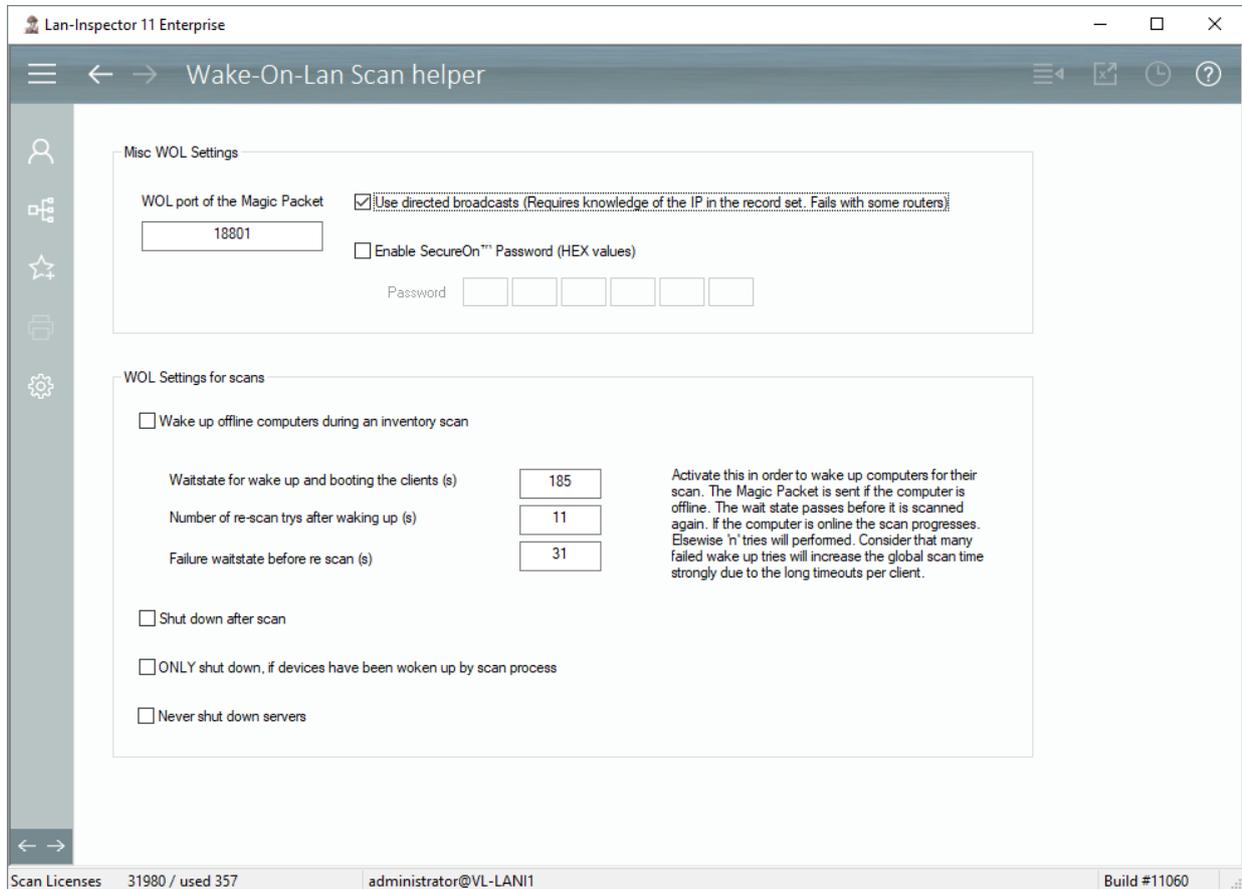


6.9.8.1 Wake-On-Lan scan extensions

In addition to some basic settings regarding WOL, here you can set that the Lani will consider shutdown computers during scanning and scan them completely. For this, the Lani will wake them up and they will boot. Then Lan-Inspector will scan them and finally shut them down again, if required.

Wake-on-Lan and shutdown during a scan is useful if content of certain computers is urgently required while computers are shutdown. On the other hand, these computers may not be supposed to be running. Here you can configure to start a computer for scanning, scan it and have it automatically shut down again.

Please note, however, that these settings may drag out the complete scan of all the computers. Long timeouts and multiple tries to wake up a computer in order to scan it, are quite time consuming. If wake up fails, the timeouts run through completely.



6.9.8.2 Waking up during scans

If you enable the “Wake up offline computers during an inventory scan” option field, all the computers of the group you want to scan (with Bios configured for WOL as well as IP and MAC addresses known to Lan-Inspector) are booted if they do not reply to a ping. The waiting time for wake up consists of the time that the WOL package needs to reach the booting system and the time the computer requires to boot. In large networks, the delivery of the package may take up to 120 seconds. Booting of a standard computer usually takes no longer than 120 seconds. Once a computer wakes, the scan engine waits for the first value in seconds before trying the first scan. The various OS components are ready for scanning at different times. You can specify the number of tries for scans and the waiting time between those tries. If the computer is scanned successfully, you can shutdown them down as described in the following paragraph. Of course, you can specify the port as well. You need to share it within the network accordingly

6.9.8.3 Shutdown after successful scanning process

If the scan of a computer was successful, you can have it shut down automatically. You can achieve this via a shutdown reminder window on the client or an automated countdown. If you enabled the “Shutdown after scan” function, each successful scan will trigger a shutdown unless you only want PCs that were woken up via WOL to shutdown. The “Never shutdown server” option is definitely suited for this. Furthermore, you can determine the texts of the reminder or countdown windows on the client and the time of the countdown.

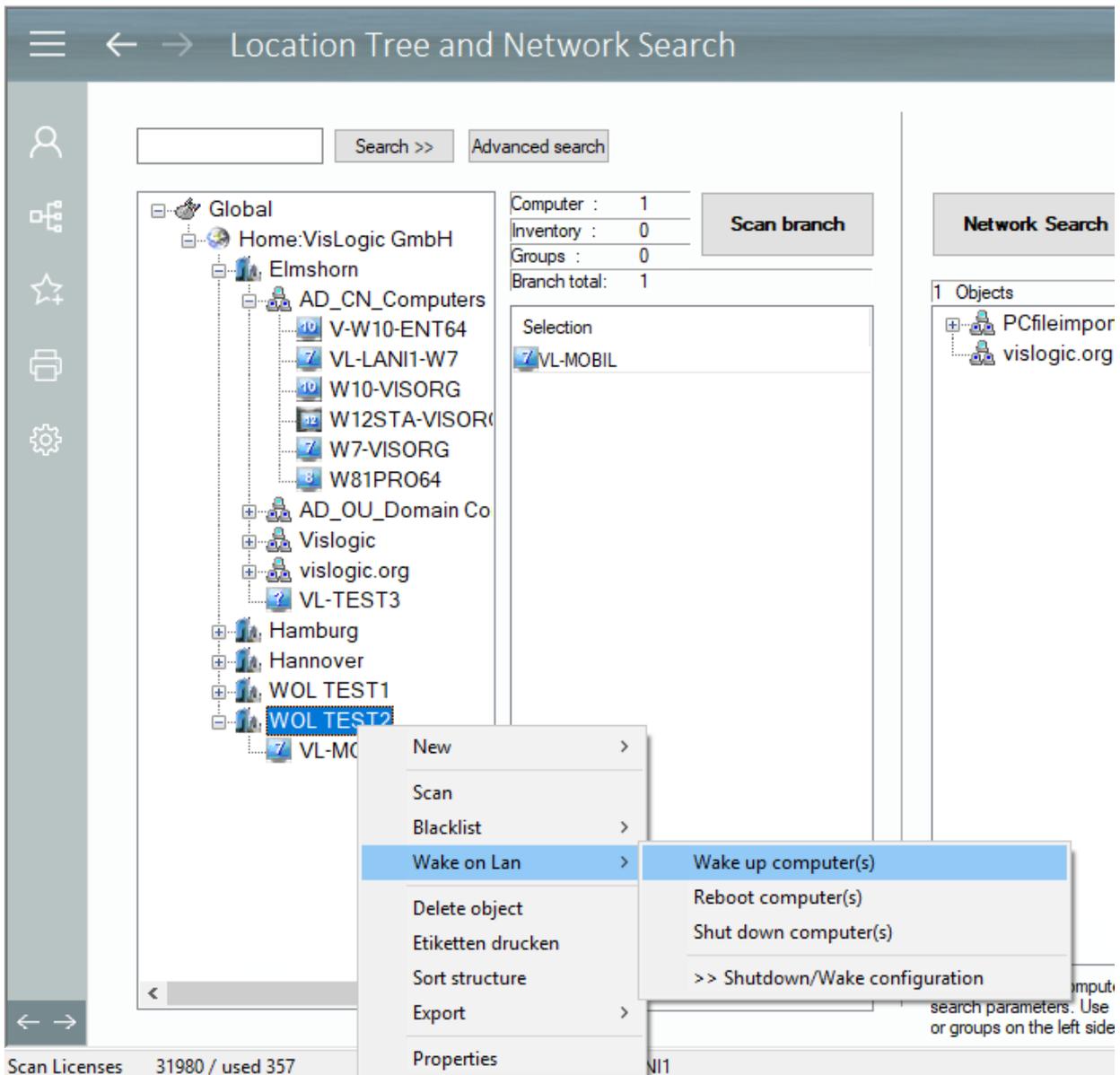
6.9.8.4 Requirements for Wake-On-Lan

Please consider the following aspects for WOL:

1. WOL only works with computers with a unique MAC address known through previous scans.
2. Routers have to transmit Magic Packets to the specified port.
3. In branched networks with many subnets, it may be necessary to activate DIRECTED BROADCASTS. For this, you must know the IP address of the computers through previous scans.
4. With this procedure, the Magic Packets also provide the target subnet.
5. Enabled Directed Broadcasts can cause the WOL within networks to malfunction because standard Magic Packets are expected.
6. WOL has to be enabled within the computer BIOS.
7. Usually computers only wake up if they were shutdown or turned off properly via Soft-Off.
8. Computers with a shutdown that lasted for at least 4 seconds will not wake up.

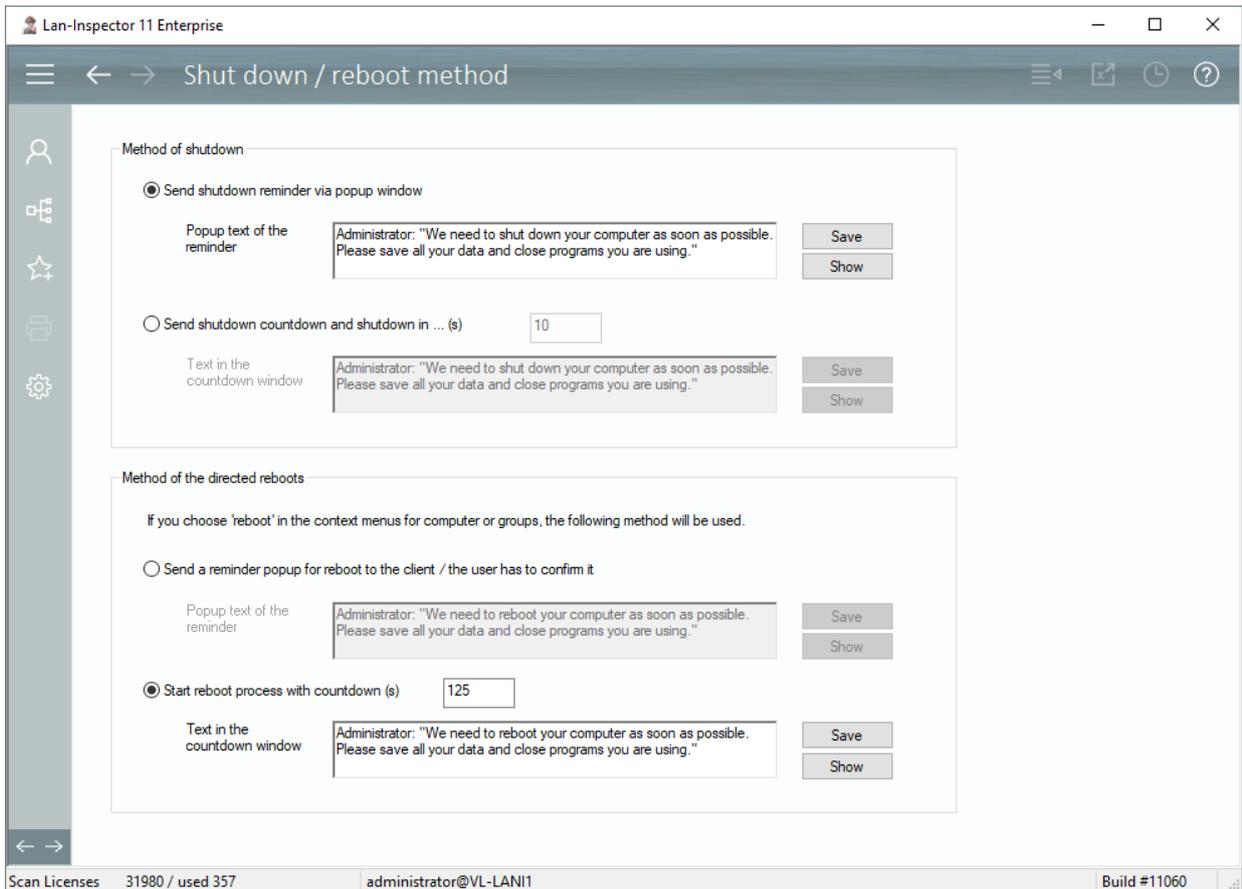
6.9.8.5 Wake-On-LAN via context menus in the location tree

The described functions offer comprehensive settings. While you can trigger Wake-On-Lan and shutdown during a scan using the scan engine, restarting a computer or a computer group can only be triggered via the context menus of the location tree (menu items under „Inventory Management“).



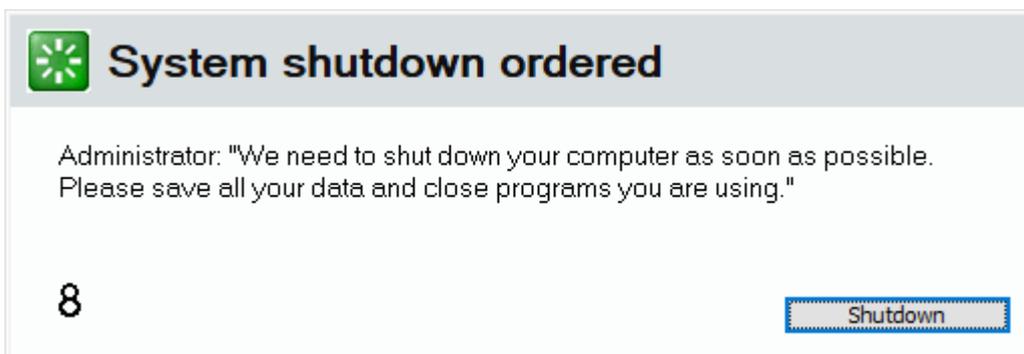
6.9.8.6 Shutdown and Reboot Method

Within the location management, you can restart computers or computer groups by right clicking the location tree. For shutdown as well as reboot, you can use a reminder or a countdown window. You can determine the mode used and how long the countdown will be:



6.9.8.7 Show Example Popups

Here you can view popup windows prior to applying them on the network computers. Click one of the “Show” buttons to view the corresponding window just as it would appear on the client. You can customize the text shown here in the settings yourself.



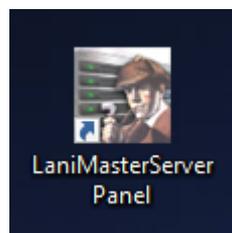
Of course, your computer will NOT shut down after viewing those example popup windows ☺. You can close the window using “ESC”.

7. Enterprise Server Panel

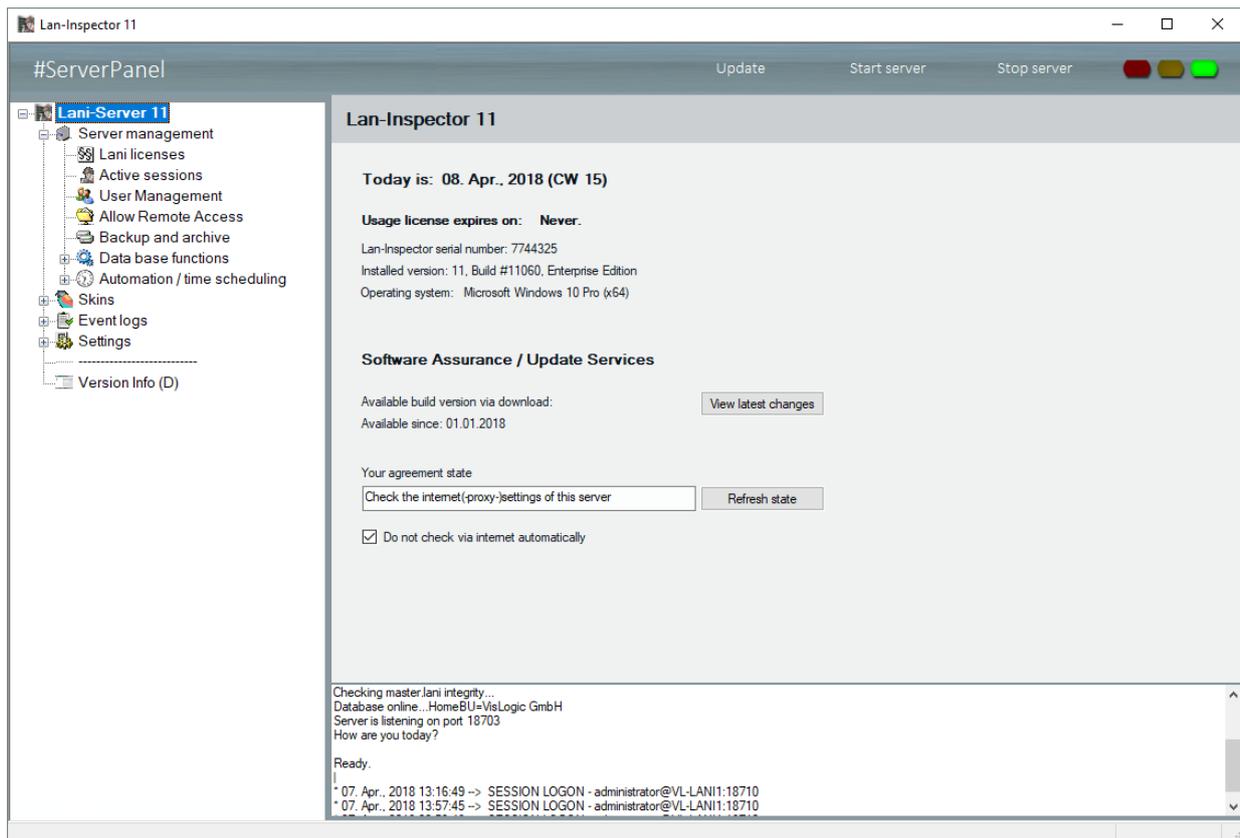
7.1 Client- / Server Architecture

The Basic and the Enterprise Editions don't have an own server control panel, because they don't need session services. They are standalone executable files.

The Enterprise Edition in contrary includes massive multi-user capabilities that enable parallel work on the data base to more than one Lan-Inspector admin. The framework uses pull and push methods to have the data up-to-date at all ends of the workflow. This means, if someone changes something at one point, the changes become effective to all logged on users. For the management of the server functions, there is an own server GUI. You can open it via the server icon on the desktop or via the start menu (please run it as 'Administrator'):



The server panel differs slightly from the one of the frontend. There is a static tree menu which can't be clipped out. However, you can adjust its size by dragging the separator.

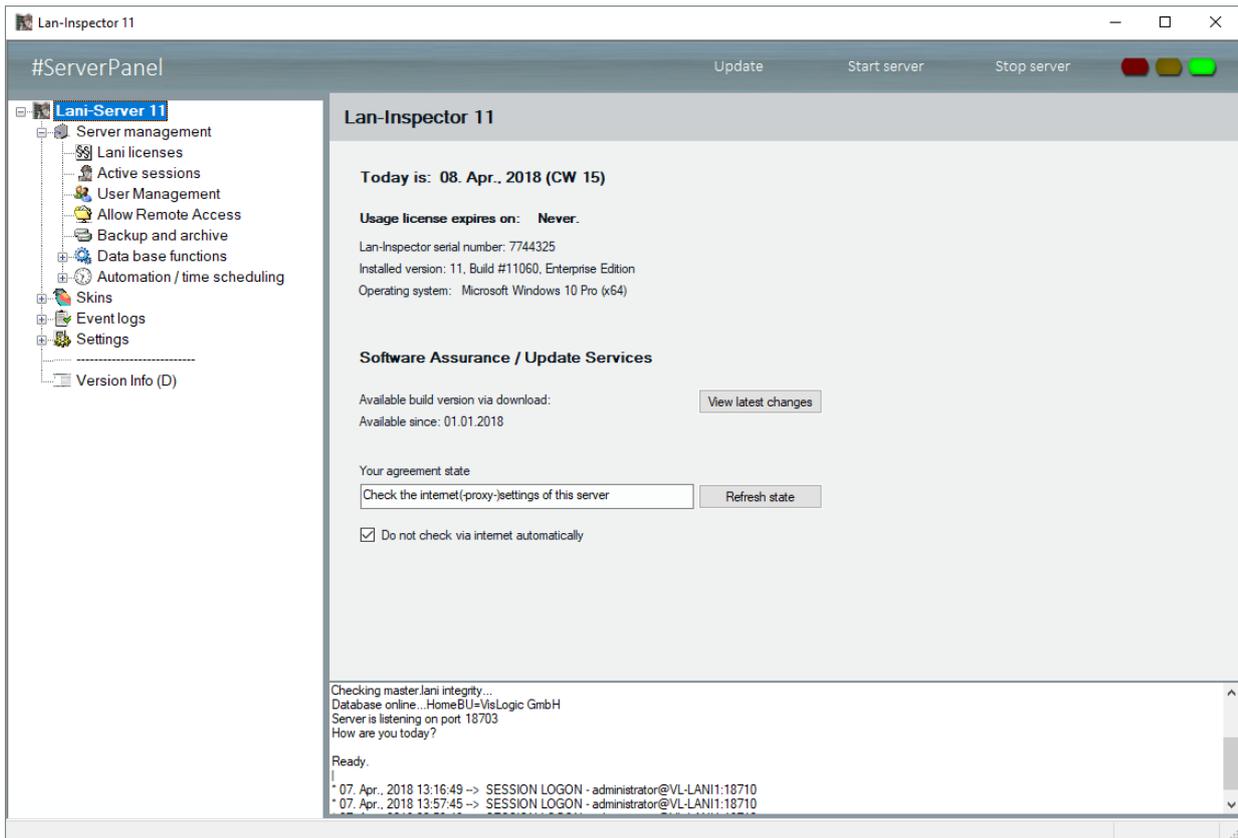


7.2 Lan-Inspector Server Functions

You can call up most functions by just selecting them in the tree, others are marked with a “(D)” for “Double click” and can therefore be accessed that way. You find an individual description of the interface dialogs below:

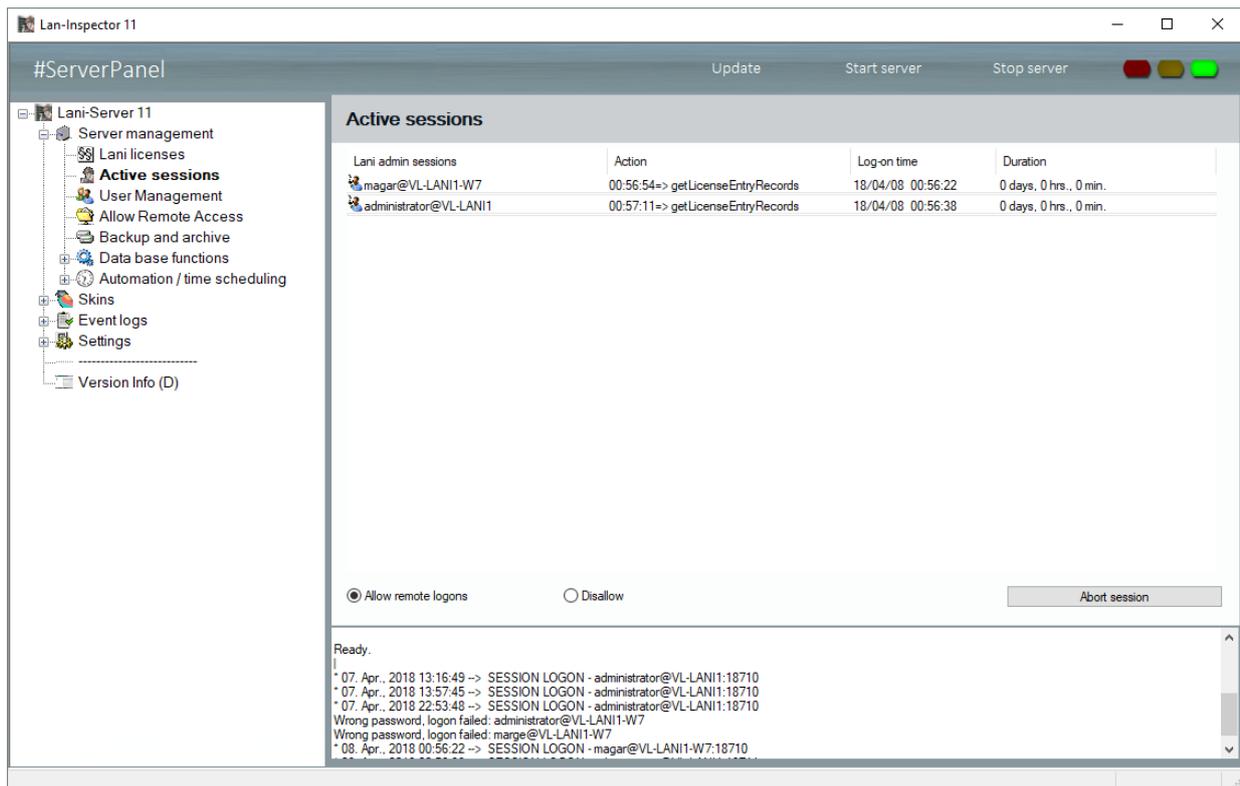
7.2.1 Server Start Page

The following screenshot shows the Lan-Inspector server home page. It provides your Lan-Inspector serial number, current date including calendar week and the key data of your maintenance agreement at a glance. On the push of a button, you can access the most current version via download; configured internet access provided. You can set the internet access up in the server settings.



7.2.2 Active Sessions

Selecting this branch will display all open frontend sessions. You will see the duration of access and the current action. The Lan-Inspector records all the session results in the session log. If you like, you can abort sessions from the server by selecting the corresponding line and clicking "Abort session":



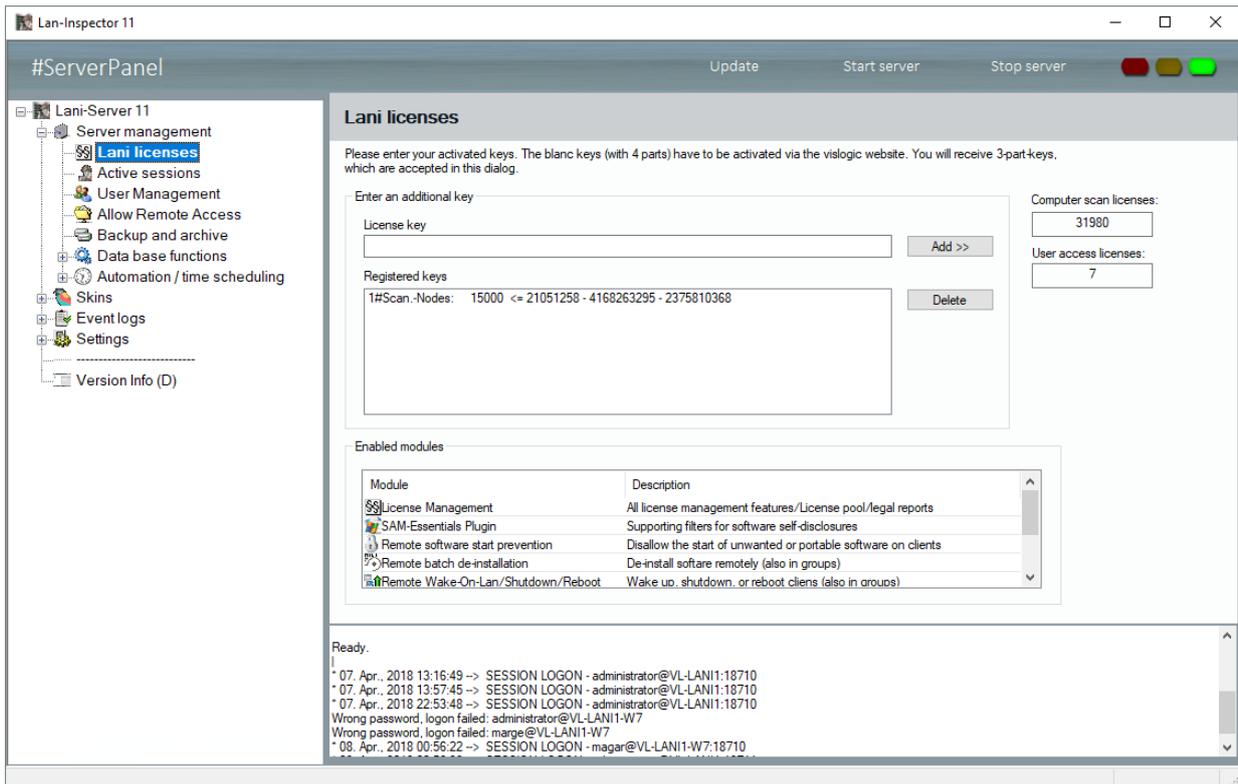
7.2.2.1 Disallow remote Logons

The Active Sessions window allows you to prevent users temporarily from logging on. You can find and select this option below the corresponding session window. If you block logons, every Lan-Inspector user, who tries to log on, receives a friendly maintenance message.

7.2.3 Enter Lan-Inspector License Keys

Lan-Inspector licenses regulate the degree of Lan-Inspector usage. There are scan licenses and access licenses. Scan licenses increase the number of possible devices in the data base (clients and servers). Access licenses regulate the number of remote access terminals.

Prior to entering licenses in this dialog, they need activating (see 4.2.3 Full versions: Internet Activation Procedure). A still deactivated license has four blocks of numbers separated by dashes. An activated license key has three blocks of numbers. You can use activated license keys in combination with their associated Lan-Inspector serial number only.



7.2.4 Activate Lan-Inspector Licenses via the Internet

To activate the purchased blank licenses for modules or computers that you wish to scan, you have to install Lan-Inspector and activate the Installation fist (provided, you do not use a USB dongle). During the activation of your installation, the activation server will automatically assign a Lan-Inspector serial number to your system. Inactive Licenses (Blanc Licenses) will be bound to this serial number and are therefore only useful with your activated installation.

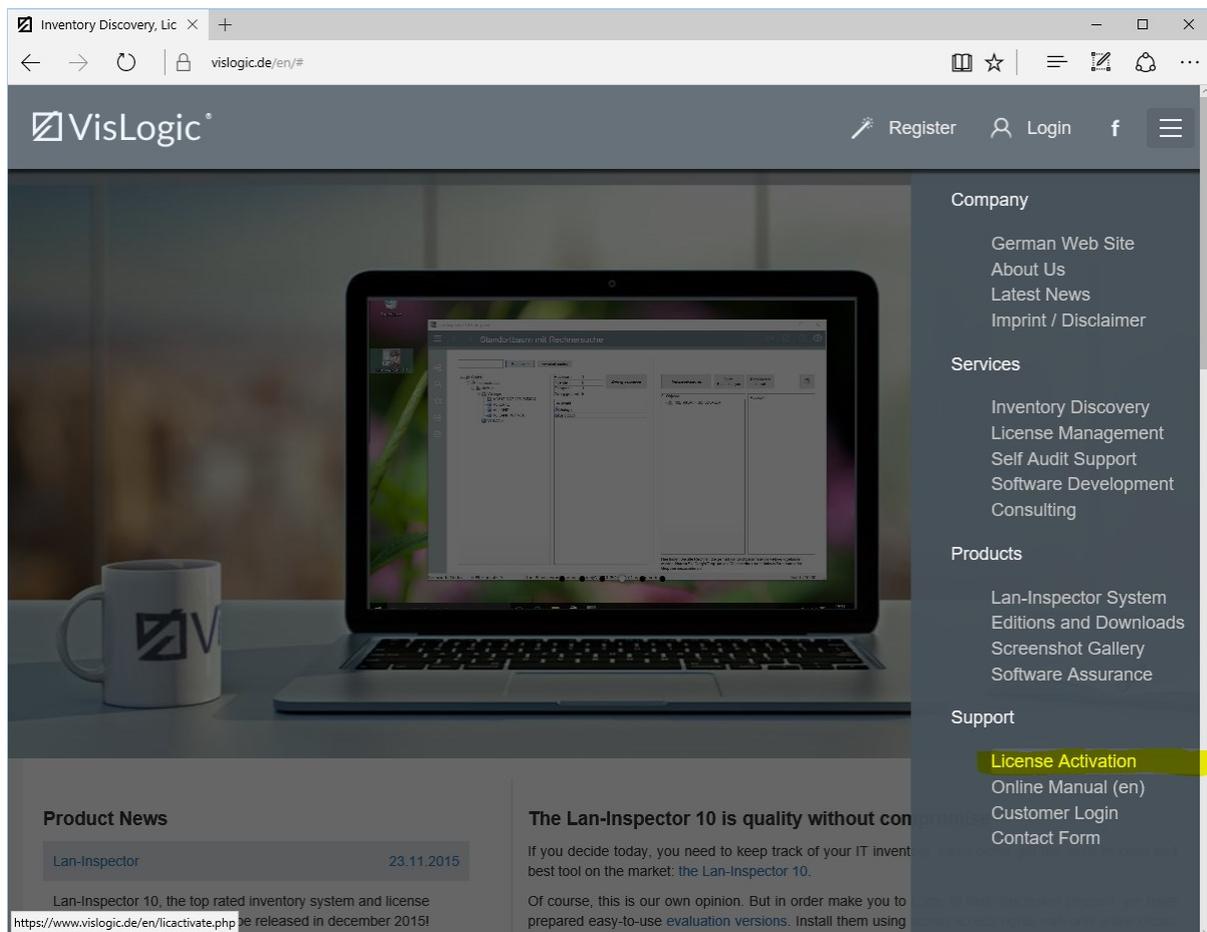
You will recognize a blank license for its four blocks of numbers separated by a dash:



License (inactive): 1728933-27817212-27863822-2836652

To receive your final (three-digit) license key, please follow these steps:

1. Install Lan-Inspector and activate it.
2. Launch the Lan-Inspector server panel. The server home page displays your serial number.
3. Visit the www.vislogic.de/en/licactivate.php webpage and select “Lan-Inspector activation” on the right hand side.

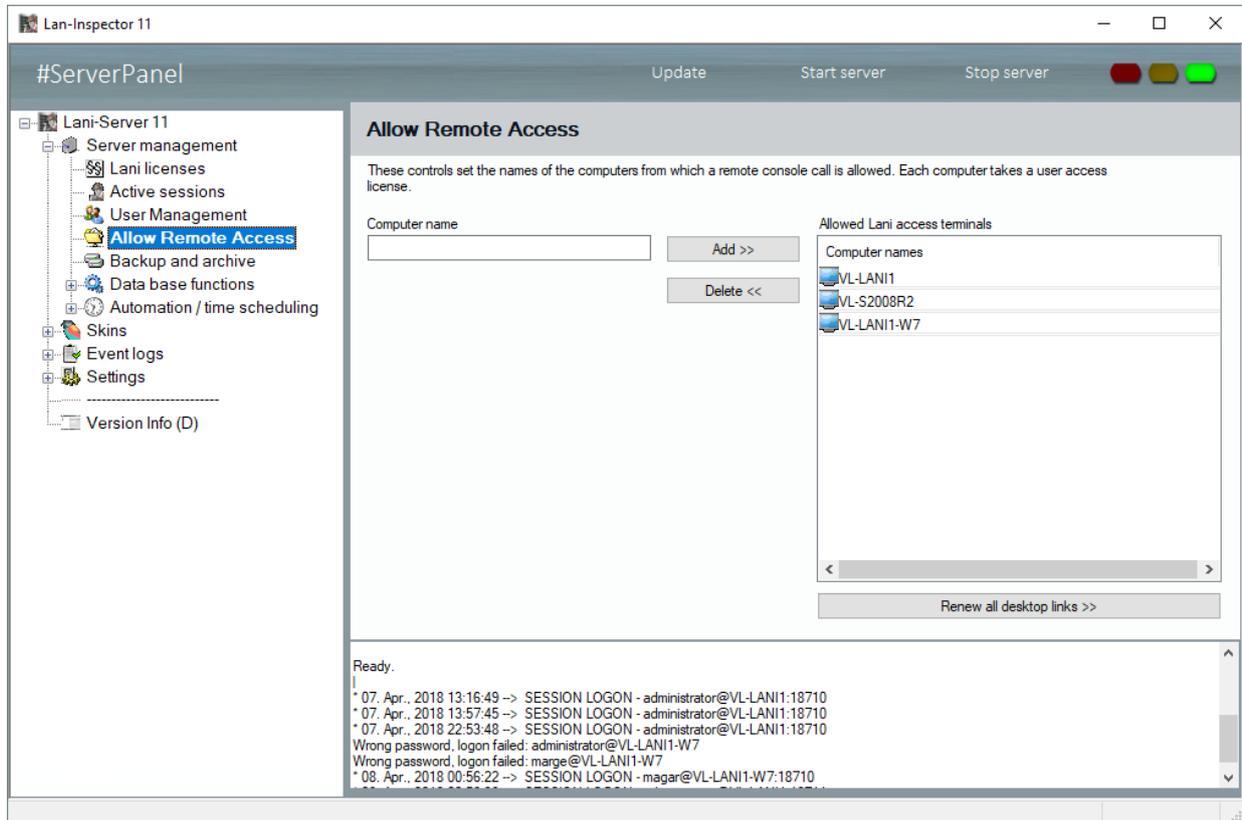


4. Enter your customer data, the serial number and the numbers of your blank license are required.
5. After authentication, you receive your final individual license keys within 24 hours by e-mail. If you are a new customer, we may withhold activation until after we received payment.
6. The final keys consist of three blocks of numbers and match either your activated installation or your USB dongle.

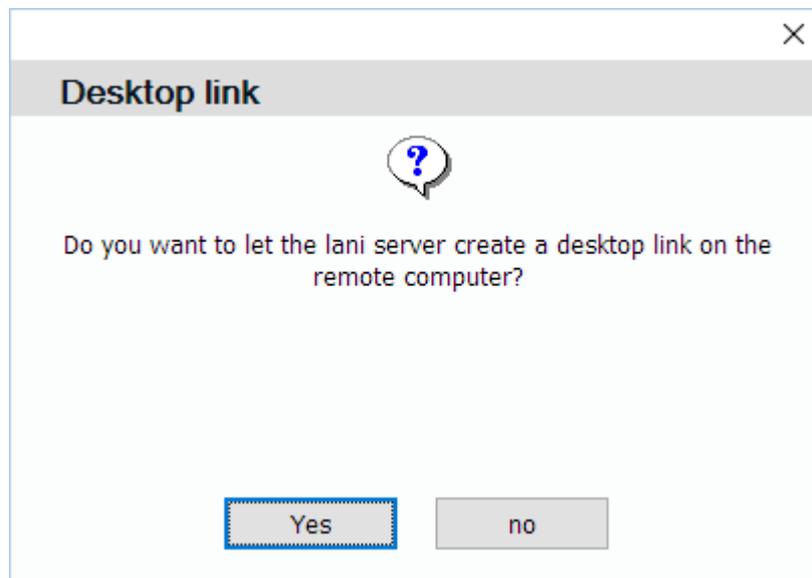
With the final (three-part) number key, you can enter your licenses on the server under Lani Licenses.

7.2.5 Permit and Install Remote Access

In order to access the Lan-Inspector server from your usual workstation, you have to assign a remote access permission to your workstation on the server. Each persistent access of a workstation consumes a Lan-Inspector access license.



If you have enough access licenses (AL), you can add further workstations to the list of permitted devices. Enter the computer's name and click on 'Add >>'.



If you like, you can have the server push a Lan-Inspector link to the remote workstation's desktop. This happens by delegating the scan engine, which is supposed to have domain admin access rights in the Enterprise Edition.

You don't have to do anything else. You will find the desktop icon there now. You can remotely double-click on the link now without any further installation.



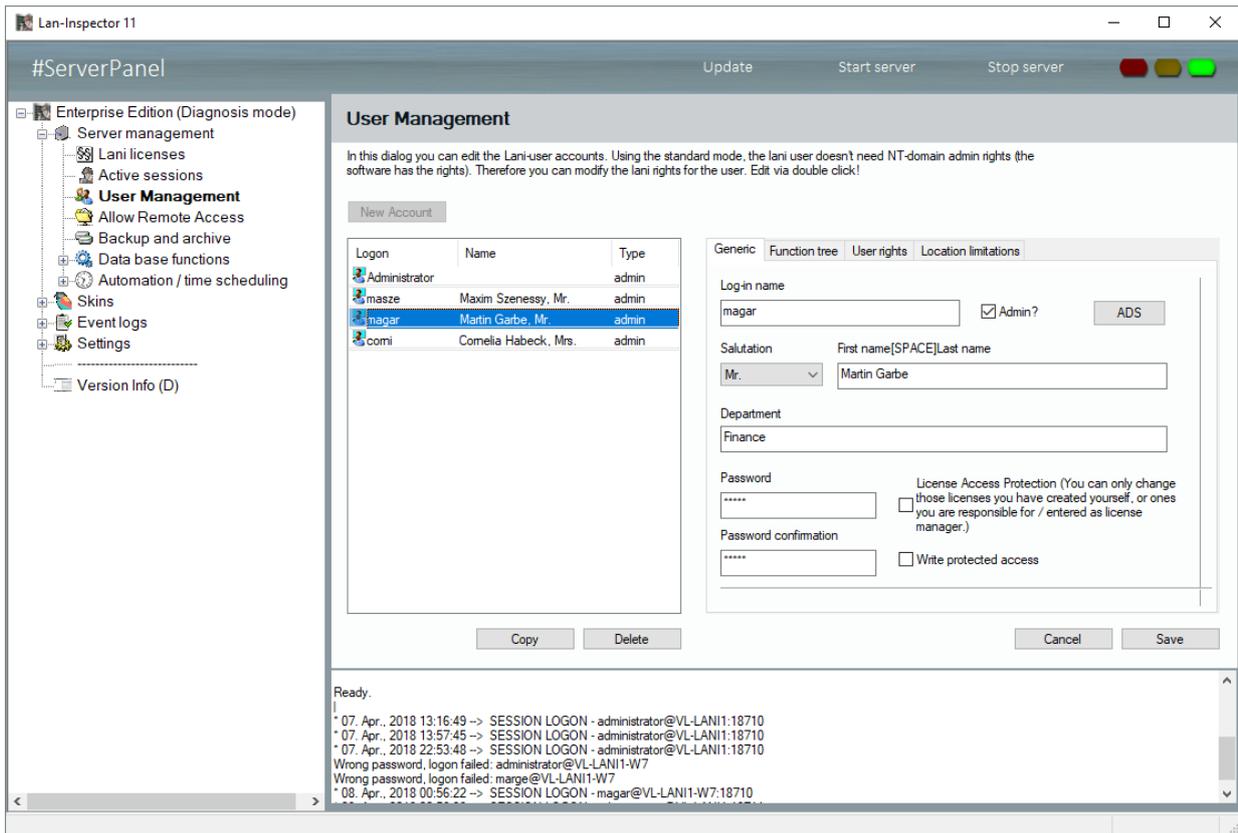
By the way, the link will be deleted if you remove a workstation from the list of permissions.

7.2.5.1 Re-new all Desktop Links

It may happen that long term users need an upgrade of the remote access executable. If you click on the button "Renew all desktop links >>", the scan engine connects to each workstation and updates the calling functions automatically. Afterwards a quick message box tells you about the connection results.

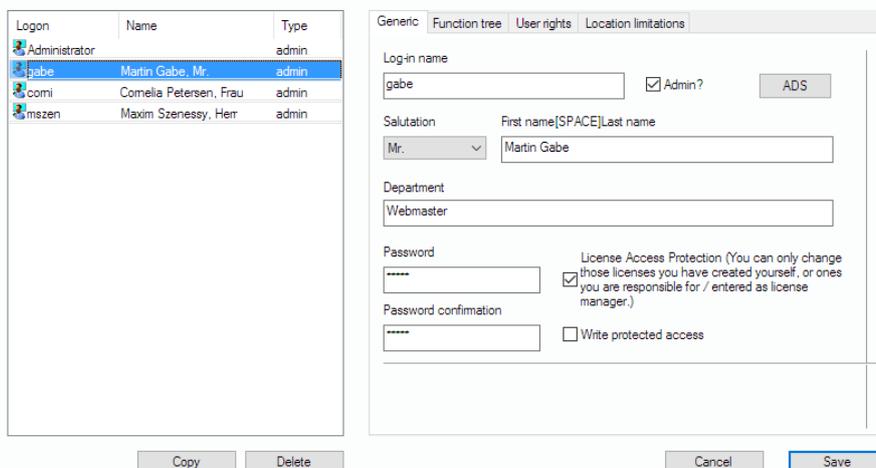
7.2.6 Lan-Inspector User Accounts

To open a frontend, you need to login first. The user account management on the Lan-Inspector server allows you to grant users different permissions or to take them away. In "User Management" you can create, edit or delete accounts. Double-click on the corresponding account in the list or click on "New Account" to create one. You can also clone an account by clicking on "Copy".



7.2.6.1 General Information on a User

The General page contains the login name as well as the real name and the department. These entries appear as “Creator” in the newly created licenses in the data set. Please make sure that the full name is entered correctly (first name[SPACE]last name). This is necessary if you want to use the license protection feature.



7.2.6.2 Active Directory query

You can directly import this data from the active directory services by clicking on “ADS”, which will make the following dialog appear:

Active directory query

Windows logon name without domain (Expl: user@test.org => simply 'user')

gabe

Query ADS

Full name from ADS

Cancel Apply

7.2.6.3 License Access Protection

Enabling this option for users gives them slightly limited access to the license pool. A user can create new licenses and manage them if his full name is entered in the record as the responsible person or the manager of this license record. A Lan-Inspector user can't move, edit or delete licenses he is not responsible for.

7.2.6.4 User-specific Function Tree

The “Function tree” user account dialog allows a specific account to receive permission for or prohibit functions. After the user logs on, only the functions permitted here are available:

Logon	Name	Type
Administrator		admin
gabe	Martin Gabe, Mr.	admin
comi	Comelia Petersen, Frau	admin
mszen	Maxim Szenessy, Herr	admin

Generic Function tree **User rights** Location limitations

Log-in name
gabe

Here you can manage the menu function rights that are assigned to the user.

- gabe
 - Dashboard
 - Favorites
 - Inventory management
 - Location tree and network search
 - Installed Software in the Network
 - Object Detail View
 - Software and device list
 - Location tree with queries
 - Search and Query
 - More
 - License + Software Management
 - Remote software start prevention

Copy Delete Cancel Save

7.2.6.5 Other Permissions of a User

In the “User rights” tab, you can grant or revoke permissions.

Logon	Name	Type
Administrator		admin
gabe	Martin Gabe	admin
comi	Comelia Petersen, Frau	admin
mszen	Maxim Szenessy, Herr	admin

Generic Function tree **User rights** Location limitations

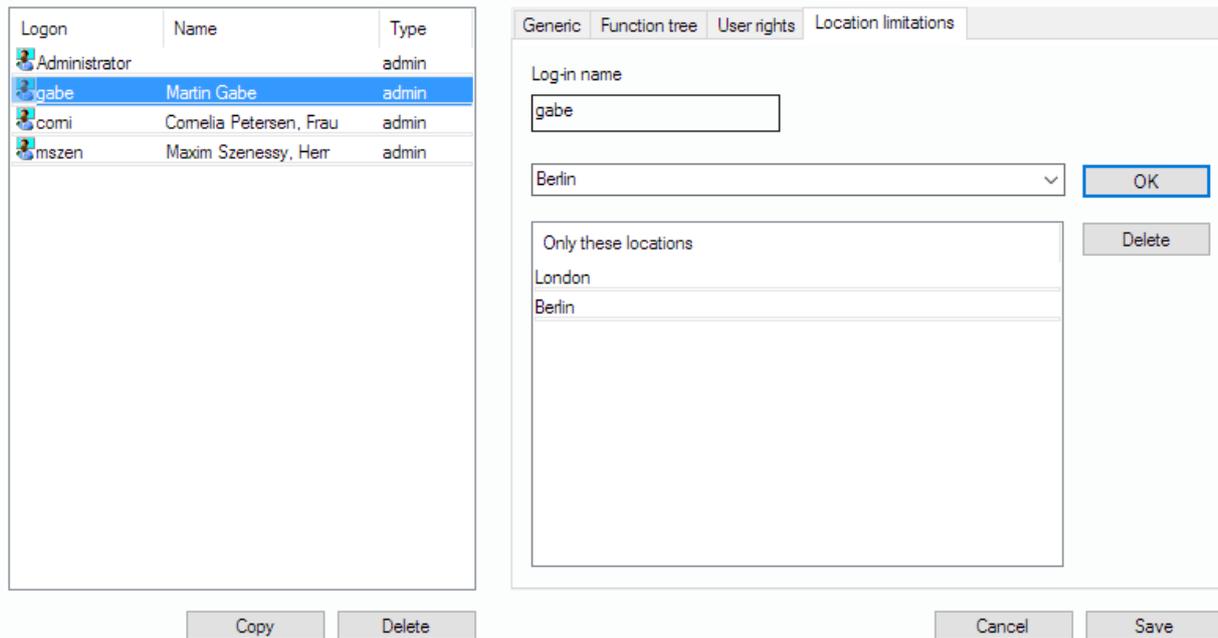
Log-in name
gabe

- All rights - admin account
- Only write-protected access
- Call Lani console from network
- Send instant messages
- Edit object details
- Search and scan computers, Scheduler
- Adjust scan options
- Network installation and misc configuration

Copy Delete Cancel Save

7.2.6.6 Access Limitations to Specific Locations

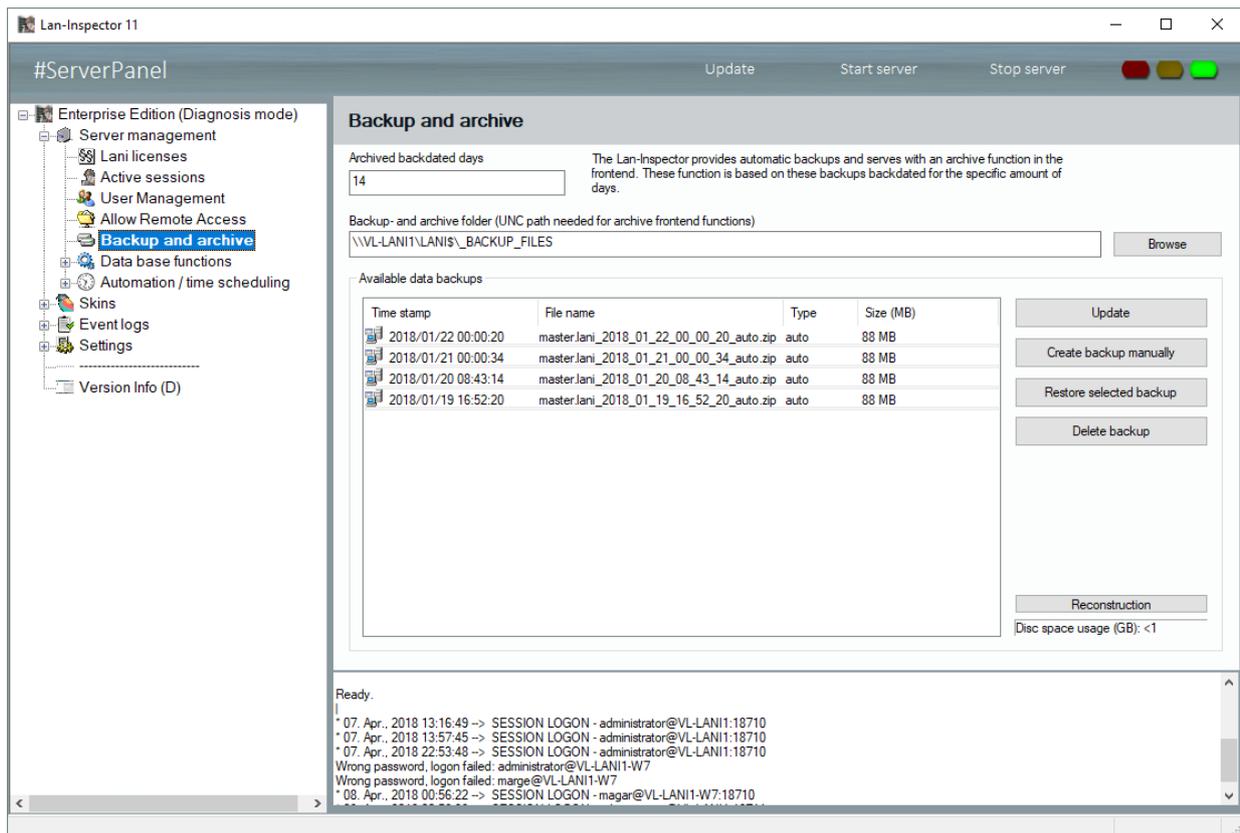
Under “Location limitations”, you can assign concrete viewing permissions for existing locations. If you add locations to this list, the user has explicit permission for those ONLY. You can use the drop-down field to choose an existing location, or you can just type in the location's name. Afterwards you click “OK” in order to add it. You can delete an allowed location by highlighting it and clicking “Delete” afterwards.



7.2.7 Backups and Archives

The automated Lan-Inspector backup function also serves as a foundation for the direct archive access. The Lan-Inspector backup service creates automated backups for every day. By default, the number of backup days is 14. If your company needs to be revisable for 10 years, increase the value to 3650 days. The backup service creates archives of the last 14 / 3650 retroactive days. It will delete all the backups of days older than this value. If you look back into the past by using the archive function in the frontend, please note that you have read only access to the archives. Using the archives, you can directly restore a view upon each past day of the backup period.

You can also create backups manually by clicking on the corresponding button. Here in the Backups and Archive dialog, you can also restore or delete data states of archives created in the past. As the restored data becomes the current data state, the write protection will be disabled.

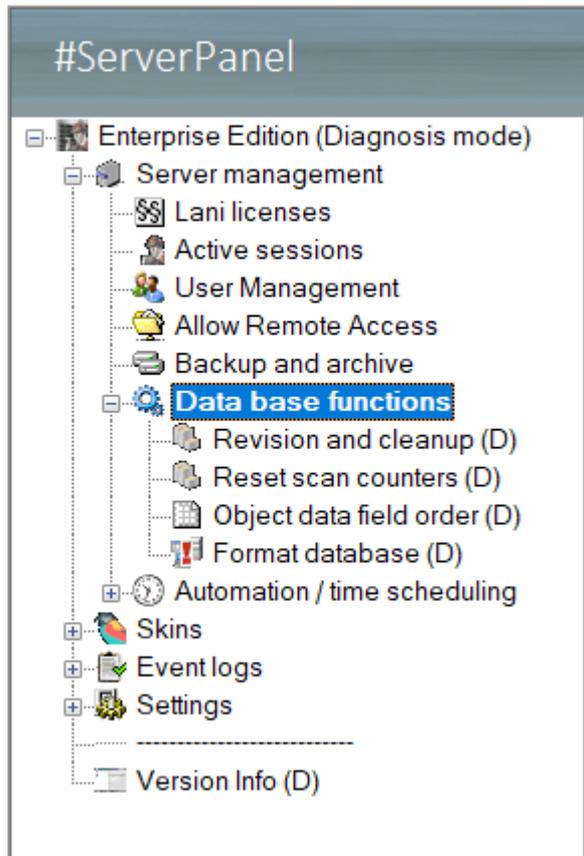


7.2.7.1 Reconstruction Button

The underlying function beyond this button searches all partitions in order to find all zip files or other files that look like Lan-Inspector data base fragments. The Lan-Inspector will try to build up archives in the backup list from these fragments by reconstructing them.

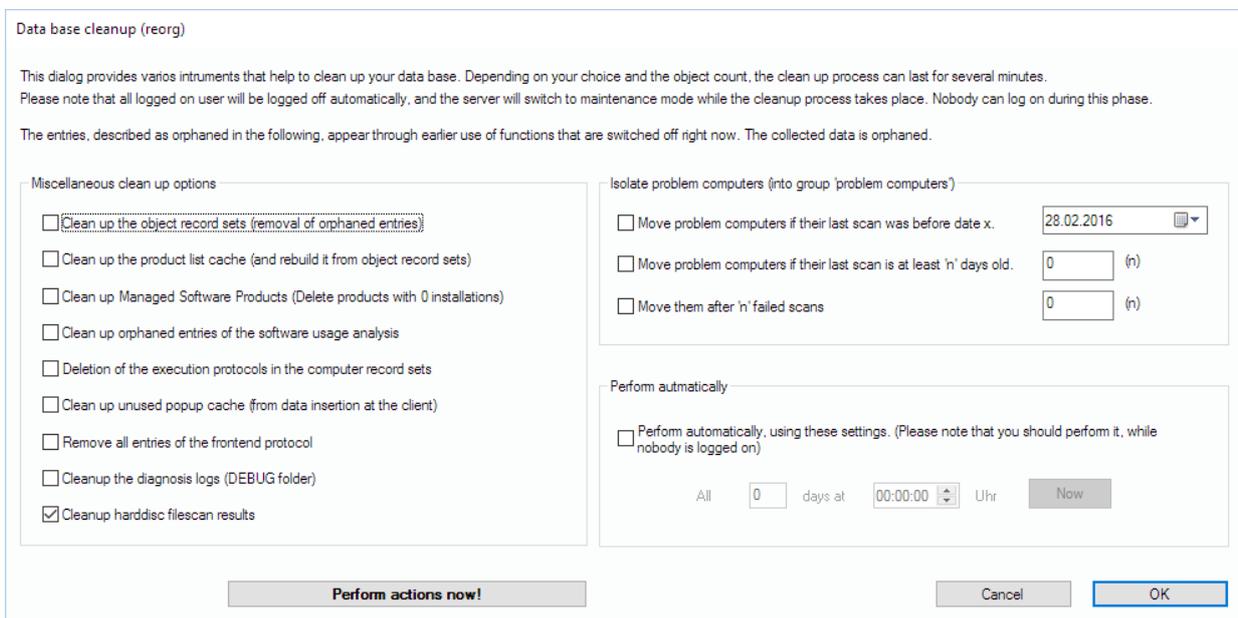
7.2.8 Data Base Functions

Here, you will find additional data base management functions.



7.2.8.1 Revision and Clean-up (D)

After several years of use and intensive moving of groups, it might be helpful to defrag and cleanup the data base's content (re-org function):



Select the desired cleanup functions and click the “Perform actions now!” button. You also have the option to specify an automation of cleanup functions in order to have it repeatedly done by the scheduler.

7.2.8.2 Reset Scan Counters (D)

If your scans of computers fail, the internal failed scan counter in the record sets will increase. This function resets the failed scan counters of all record sets to zero again.

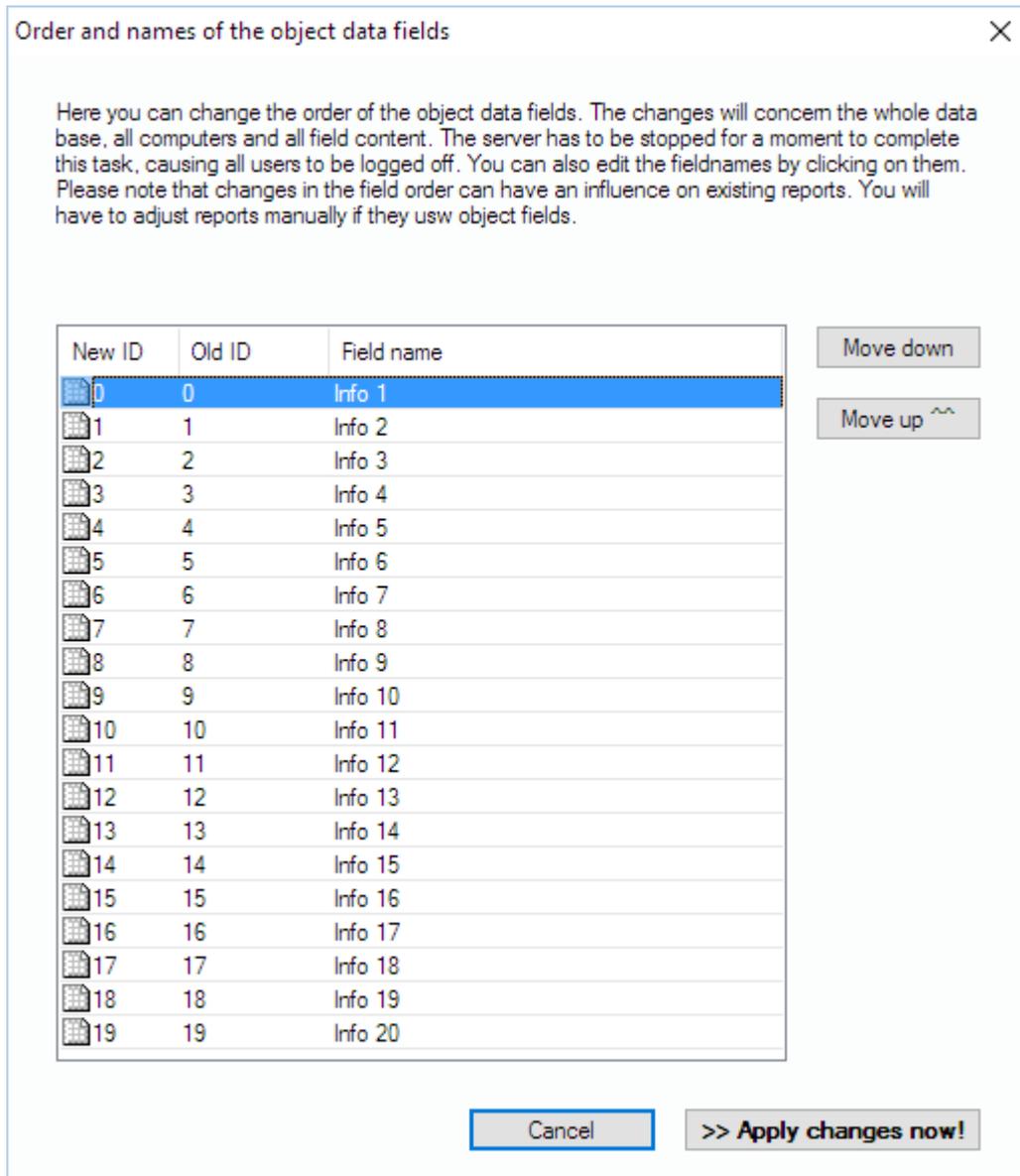
7.2.8.3 Format database (D)

If you wish to reset and empty the database completely, use this function

7.2.8.4 Object data field order (D)

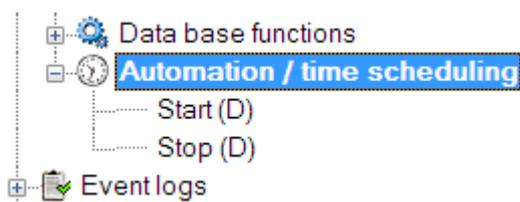
Each computer record set contains 20 fixed data fields that you can name at will. If you have named them once and if you have entered content by any means, changes in the order of these fields can only be made here. Your changes in this dialog will work the order of all fields in all record sets including the corresponding content.

Individual fields can be resorted by selecting the “Move up” or “Move down” button. Click “>> Apply changes now!” to perform the data base changes.



7.2.9 Automation / Time Scheduling

By double clicking (D), you can activate time scheduling on the server-side.



Time scheduling is required for all scheduled tasks, e.g. regular scans, data import and export, e-mailing of automated reports etc. You configure time scheduling in the frontend (see 6.9.5

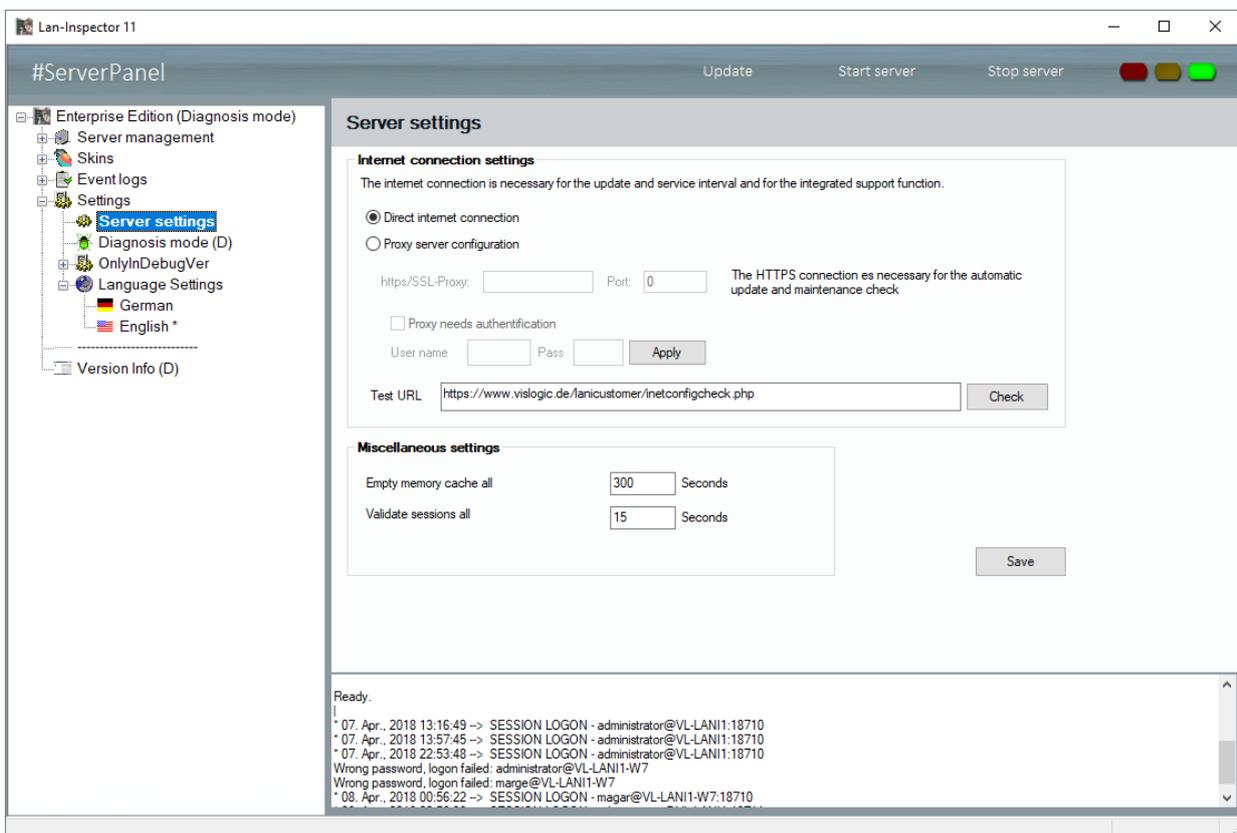
Automation/ Time scheduling). If the scheduler is active, you can clearly see an active clock icon in the top bar.

7.2.10 Logs

Here you can find all the kinds of messages in a server log, a session log and a frontend log. This is mainly self-explanatory.

7.2.11 Server Settings

Here you can set internet connection, diagnostics mode, and storage intervals:



7.2.11.1 Internet Connection Settings

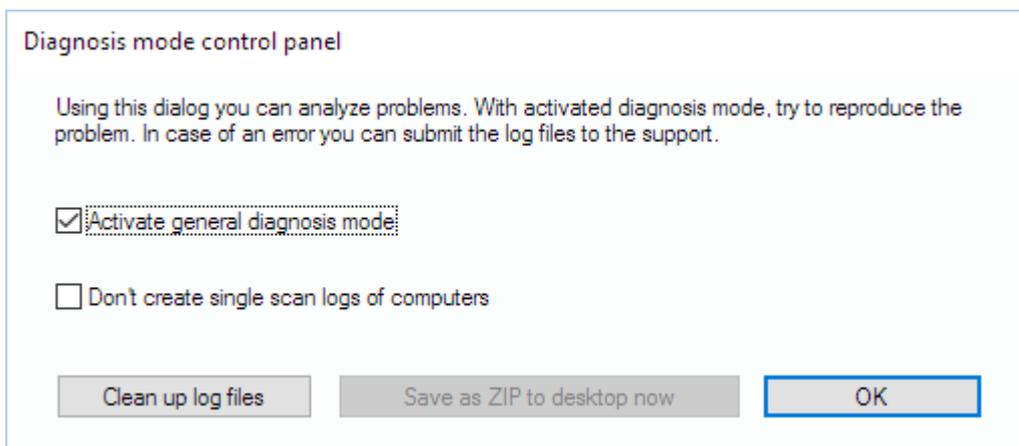
If you are using no direct internet connection, you can configure a proxy server here. The internet connection is necessary for checking the maintenance state or performing the automatic Lan-Inspector update. A functioning internet connection is also required if you want to use an SMTP-server outside of your network for sending e-mails.

7.2.11.2 General Settings

If the Lan-Inspector server empties its memory cache, it writes all changed data persistently to the hard disc. We recommend not to change anything here. The interval for session validation specifies the time between state updates of listed sessions (see 7.2.2 Active Sessions).

7.2.11.3 Diagnosis Mode

You can activate or deactivate the diagnosis mode by double clicking this menu item in the tree menu. The diagnosis mode activates verbose logging of actions while the system is working. This can help identify configuration problems.

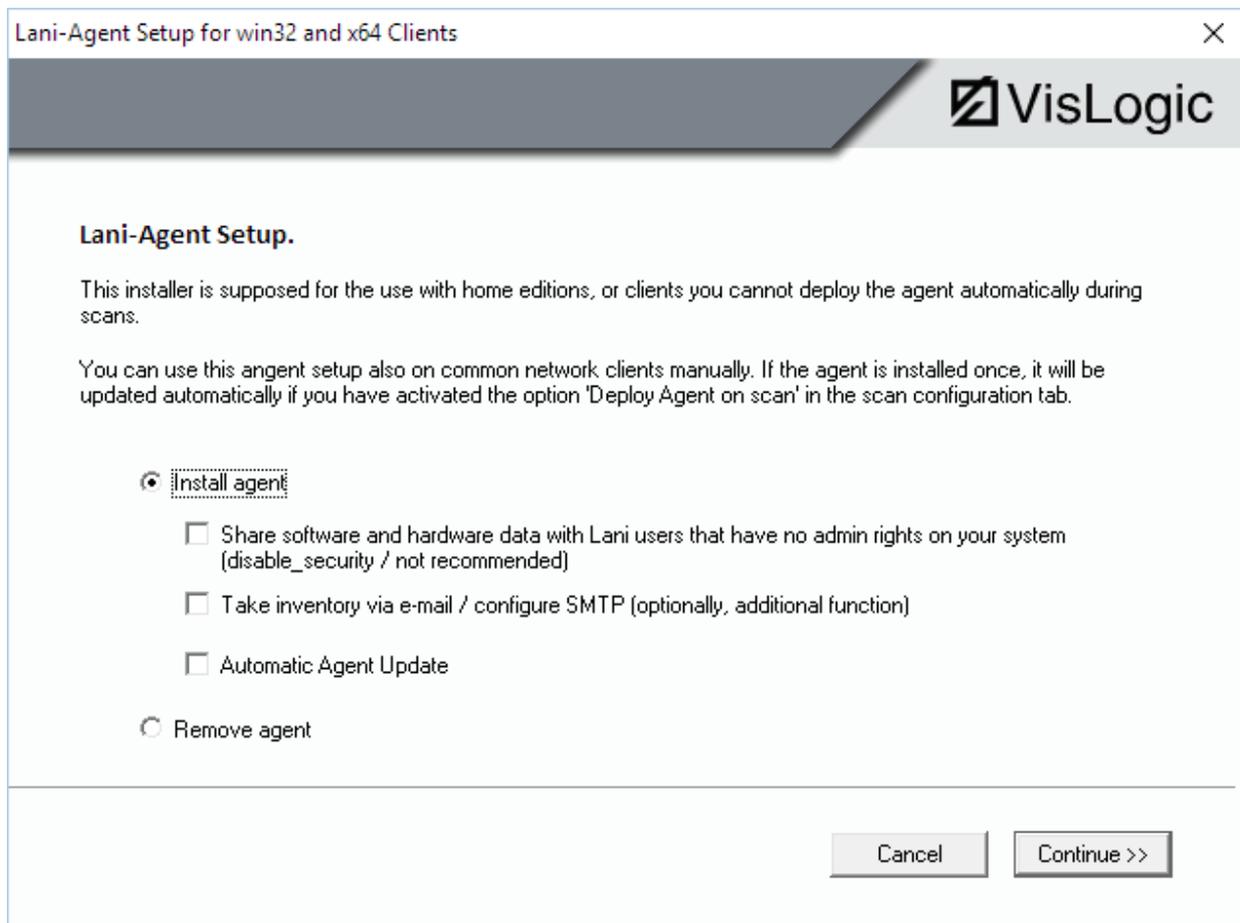


If you don't activate "Don't create single scan logs of computers", the scan engine creates individual log files for each scanned computer. This helps you identify problems with failed scans on individual PCs.

8. Appendix: Optional Agent Setup Package

Usually the Lan-Inspector deploys his client components automatically as well as he manages their version states. In case of access problems, you can also install the agent manually to make his inventory visible to the system. The installer package can also be used to configure the e-mail agent functions used to take an inventory of field notebooks that are spread around the world.

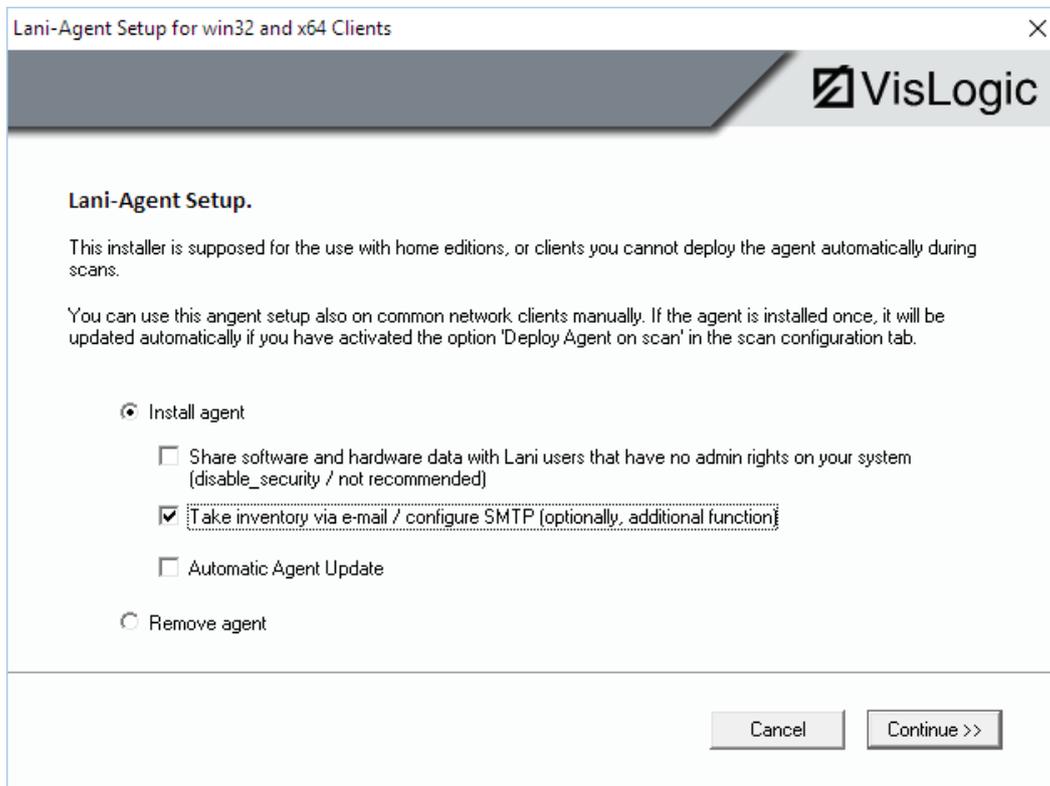
You can find the manual agent installer packages in the folder “__LaniAgent_ManualSetupPackages” of the original installation archive.



8.1.1 Inventory via E-Mail Configuration

If you enable “Take inventory via e-mail”, you can enter an SMTP-Server and an e-mail account of your company. You can also contact VisLogic and subcontract the use of the VisLogic server as a

relay server. The agent thus checks regularly whether the computer (e.g. field notebook) has internet access. In this case, the agent sends the inventory data in form on an e-Mail with an attached EXP-file to a mailbox on your company's mail server. From here, the Lan-Inspector is able to extract the EXP files from the e-mails of that mail box (see 6.4.13.4 Extract EXPs from Mailbox / E-Mail Data Collection).



In the next step you provide SMTP server and authentication if needed. You can also specify TLS security for the mails. **IMPORTANT:** If you use the e-mail option, the LaniClientInventory service (LuBService.exe) uses mail functionality. This may generate **heuristic false alarms** with anti-virus products. In that case, corresponding whitelist entries may be required for the client.

Lani-Agent Setup for win32 and x64 Clients



You can configure the agent so that he checks for an existing (direct) internet connection in specified intervals. He sends an e-mail on success with your crypted inventory data to an existing Exchange mailbox of your company server.

SMTP server (e.g. smtp.domain.net) Timeout (s)

SMTP authentication needed TLS secured

User / Password

In the next dialog you specify the address of the mailbox the inventory files are to be sent to. Most servers require a specified sender address for successfully sending an e-mail. You can specify the sender's address in this dialog, as well.

Lani-Agent Setup for win32 and x64 Clients



Here you define from and mailto addresses. This can help to prevent spam verdicts in most cases. Additionally you specify the inventory intervals.

Mailto address From address

Internet check interval Inventory interval

Seconds hours

Activate the configured e-mail sender

8.1.2 Bypassing Agent Admin Checks (disable security)

The packages also allow you to deactivate the local **admin check**. The Lani agent will then share his inventory data even if the scanning instance has no admin access rights on the local system. To deactivate local admin checks, you can also set a local registry key on the client:

```
HKLM\SOFTWARE\VisLogic\LANInspector Node\  
DWORD disableSecurity = 1
```

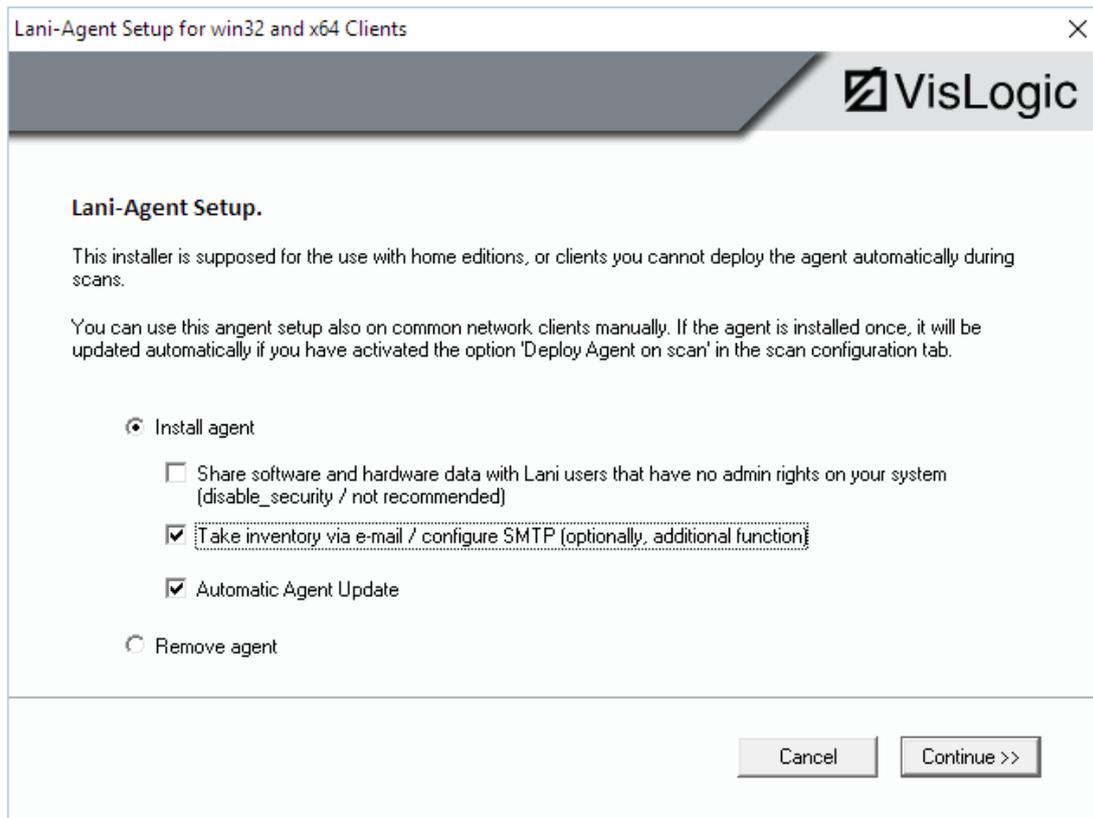
The data will only be revealed to somebody using a Lan-Inspector for scans. However, this lowers the data security of the client. Software and hardware, last user and possibly entered popup data will be open to anyone using the Lan-Inspector for scans, even if he hasn't been authenticated to the local system.

8.1.3 Agent Deployment via Package

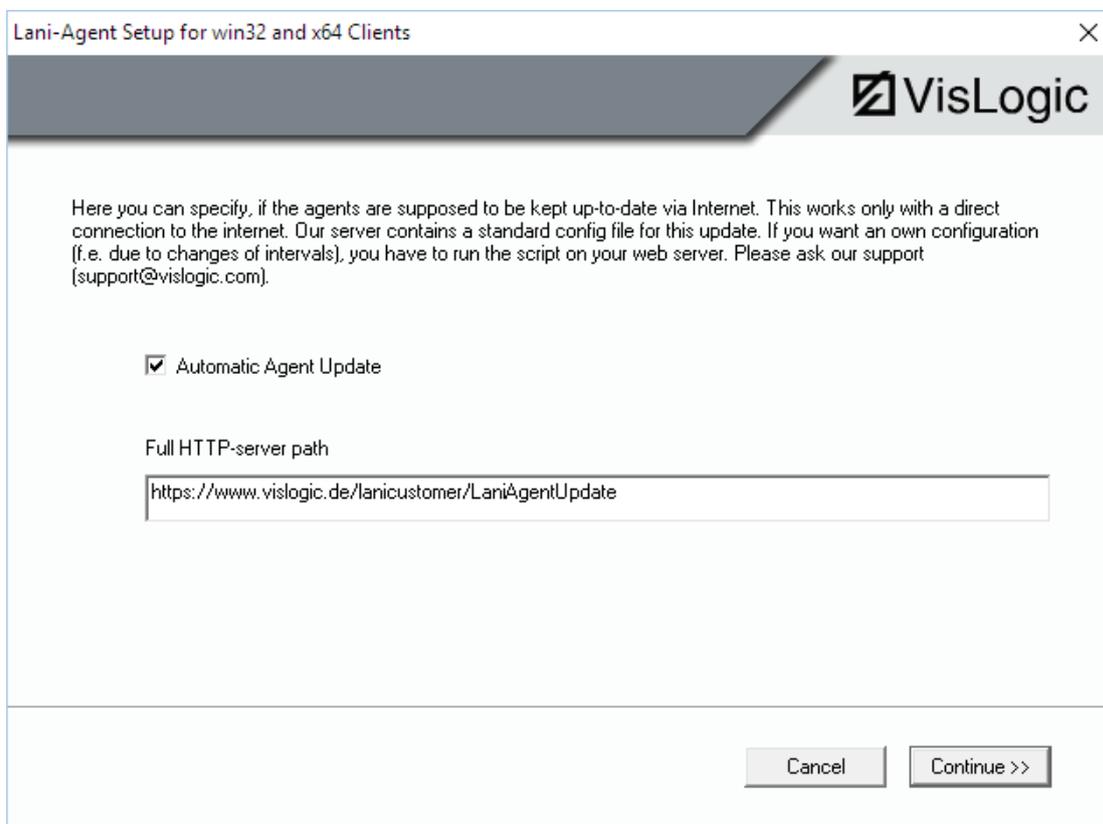
In the original installation archive, you will find the folder “__LaniAgent_ManualSetupPackages”. A readme-file in that folder contains all information you need to setup command line parameters and a silent installation.

8.1.4 Automatic Agent Update via Internet

If you install the e-mail agent on field notebooks and send them “into the world”, usually, you are not able anymore to access them, update them or change something about the e-mail configuration. In order to solve this problem, we have prepared an internet server solution.



If you enable “Automatic Agent Update”, the agent needs a server with a script as described below:



In order to establish the update mechanism you have to provide the https-path to an update script on a web server. The “update.cfg” has to be stored there. It contains all necessary details like the latest version number or e-mail configuration. You’ll find an sample “update.cfg” file in the folder “__LaniAgent_ManualSetupPackages”. The folder on the webserver must also contain the latest lani agent installer package (laniagent_win32_x64_v10000.exe). The update.cfg also specifies the expected MD5 sum of the installer package.

If you enable internet updates, the agents download the update.cfg from the webserver, using the path you have provided. They compare their own version and if necessary, they download and install the package automatically. The installation uses those parameters for e-mail setup etc. that are specified in the update.cfg.

After the update has been successfully installed, the agent collects its inventory and sends its e-mail (with inventory EXP file attached) as configured by the parameters.

Important: The automatic update always uses the parameter from the update.cfg for the installation. The script and the package have to be stored to YOUR web server and they need to specify YOUR individual parameters.

8.1.4.1 Usage of the update.cfg

The following describes the content of the current update.cfg file. Please note that each line contains NO line-breaks. The breaks caused be this form of text. Each parameter has to have only one single line.

8.1.4.2 Important Note to “latestversion“

You will notice that there is a space after the V at “latestversion“. This is not a regular space (ASCII 32), but it’s ASCII 160. This is a little hack that enables an update of old agents of version 8 to the latest version 11. Internally, the agents know themselves also as “V 11.x.x.x“. Please make sure that this special space-character will not be deleted.

```
latestversion=V 11.0.6.0
filename=laniagent_win32_x64_v11060.exe
fileMD5=FE85229AB56B740D2B51F74AEA176A06
parameters=/q/ea:no/rc:5/wt:30000/smtp-auth:no/smtp-tls:yes/smtpsrv:smtp.1und1.com
/smtpuser:username/smtpass:password/ea-checkinterval:150/ea-sendinterval:24/ea-
destaddress:E-Mail@yourcompany.com/ea-fromaddress:from@yourcompany.de/au:yes/au-
server-url:https://www.vislogic.de/lanicustomer/LaniAgentUpdate
```