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HiPath License Management

Description

Network licensing on CLS

Version 1.0

HiPath License Management Network Licensing on CLS

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1 About this document

This document describes the multiple workflows about network licensing. It will explain how systems can be added to a license network and how they can be removed again.

2 What is a License Network?

On Central License Server (CLS) every installed system is linked to one license certificate. Attached to the certificate one or more license keys for this system can be downloaded.

With the introduction of network licensing three different licensing modes can be distinguished:

- Local Licensing
- Floating Licensing
- Network Licensing

2.1 Local and Floating Licensing

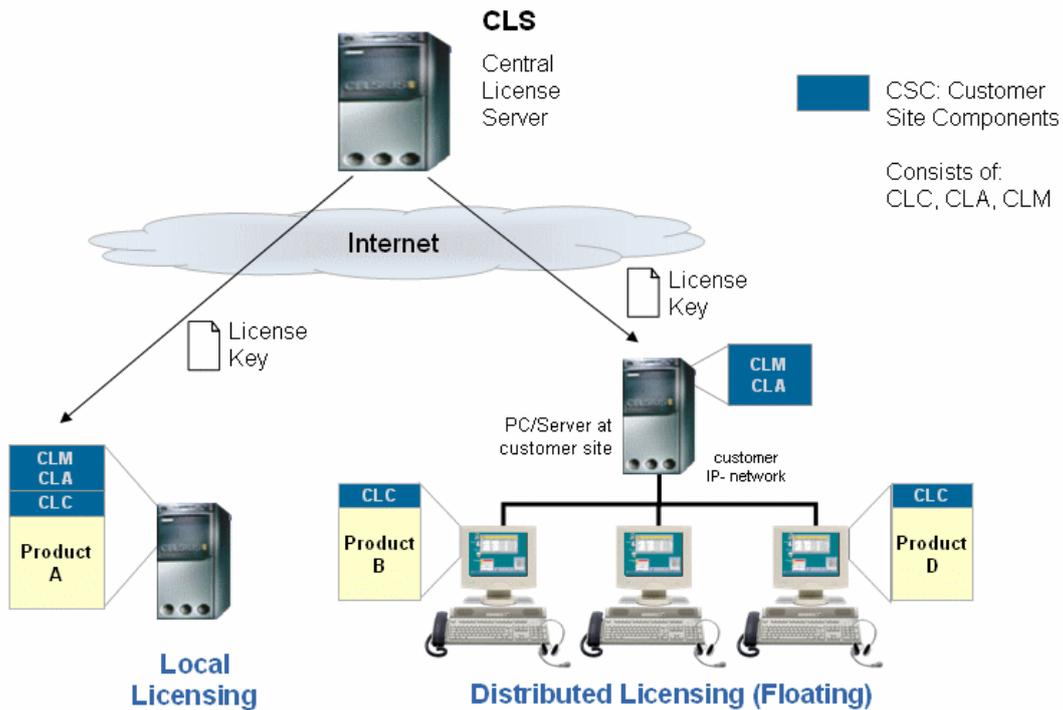


Figure 1 – Local and Floating licensing

The standard licensing modes are “Local Licensing” and “Floating Licensing”.

With local licensing the generated license key contains all licenses of one system (and product). This license key has to be installed on a Customer License Agent (CLA) that is located on the same hardware as the product.

Floating licensing enable customers to use one CLA for several products. License keys for several products are installed on one single CLA in the customer network. The central CLA acts as local license server within the customer network. Product installations on different hardware can connect to the central CLA to request licenses.

The license file is locked to the MAC address of the computer that executes the CLA.

2.2 Network Licensing

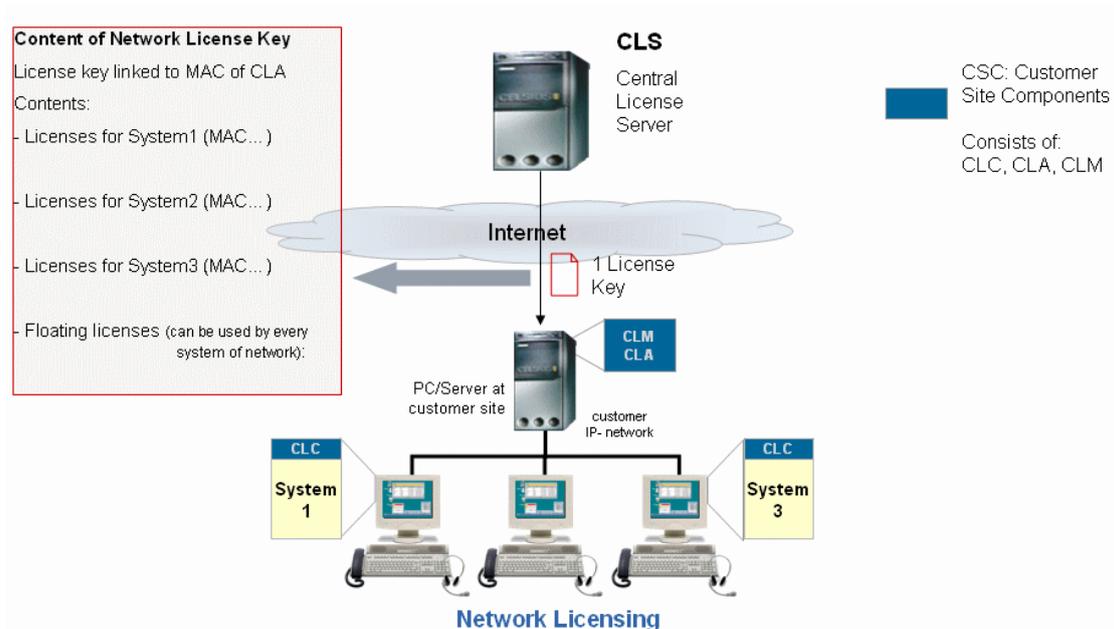


Figure 2 – Network Licensing

“Network Licensing” enhances the concept of floating licenses in order to support also one central CLA for different installations (systems) of the same product.

CLS will generate a special license key that contains the aggregated licenses of all systems. These licenses can either be reserved for one system of the network or can be free for use by any system of the network. This network license key is installed on the central CLA in the customer network.

On CLS license networks are built using additional input fields. Licensing of a single system has not changed. The system itself is licensed using the “local” Locking ID. In the network license key this Locking ID value is used to distinguish the systems and to reserve licenses for systems. Additionally the user is asked for the MAC address of the central network CLA. All system certificates (of the same product) that share the same network CLA MAC address will be added to one network license key. Those products that support a Standby Server will offer a second network CLA MAC address input field (see chapter **Fehler! Verweisquelle konnte nicht gefunden werden.**). This field is used to generate a second network license key that contains the licenses of those systems with enabled Standby server functionality. It is not possible to use different network CLA MAC addresses within a network.

3 Adding Systems to a License Network

Depending on the license status there are two workflows that can be used to build a license network

Via “Generate License Key” licenses that are not already in use can be activated. Thereby either a new license network can be created or a new system (certificate) is added to an existing license network.

3.1 New System and Add-On licensing

3.1.1.1 New System

Unused licenses are activated using the menu item “Generate License Key”. This is the normal workflow for new ordered systems.

License Key Generation Details

Cancel Next >

Technical Details

With 'Verify' you can check your input data and view licenses that are already generated for this Locking ID (e.g.: MAC Address) in the detail section below. If a MAC address is required please use this format: 'XX-XX-XX-XX-XX-XX'.

*MAC Address: **A** Alias Name:

MAC Address of Standby Server:

MAC Address of Network CLA: **B**

MAC Address of Network Standby CLA:

Verify Prefill Details

Demo NETWORK V1

Quantity to Use	Available Quantity	Existing Quantity New System	Max Quantity	Feature	Duration	Version	Type	Action
<input type="text" value="1"/>	1		1	Demo NETWORK V1 Base A		V1	New License	To be activated
<input type="text" value="10"/>	10		130	Demo NETWORK V1 Comfort User		V1	New License	To be activated

Figure 3 – Build license network via license activation

As usual the local MAC address of the system has to be entered into the main locking ID field (**A**). The licenses are bound to the system in the network that has the assigned MAC address (**A**).

To add the current system to a network or to build a new network with this system as first member use the new input field “MAC Address of Network CLA” (**B**). Enter here the MAC address of the computer running the CLA that should host the licenses of the network.

During the license activation workflow (after clicking “Finish”), CLS will search for other systems (of the same product) that have the same network CLA MAC address. If CLS finds such systems then the new created system will be

added to the existing network. Otherwise a new license network is created with this system as single member.

3.1.1.2 Add-On licensing

If a system is already licensed locally, you can add it to a network during an Add-On activation workflow. The workflow is almost the same as for a new system. During the activation you only have to fill the network CLA MAC address (**B**). As result the extended license certificate is part of the network.

The above described workflow does only work for certificates that use “Local Licensing”. If “Floating Licenses” was used before, then you have to change the main MAC address to the local one using the “Rehost” workflow.

3.2 Existing System

A new menu group has been defined to support management of networks. It contains a menu item to add existing system to a license network. Also you find a menu item to generate a report including the systems that are part of a network.

Figure 4 – Search existing system to add it to a network

Behind the scenes the Rehost workflow for license network management (management of existing systems with networks and add already licensed local or floating licenses to a network) is used to add systems.

To add an existing system to a network select the menu item “Add / Remove System” from the menu group “Network License”. In the search form enter the Locking ID (=MAC address) that is currently used for the existing system (**A**). Perform the search and start the “Rehost” workflow.

License Rehost Details

> Home
 > License
 > Network License
 ▶ **Add / Remove System**
 ▶ Network System Overview
 > Profile
 > Help
 > User Support
 > Product Information
 > Log out

Original System Information

Locking ID	Alias Name
00-00-10-03-15-03 A	

Technical Details for the New System

With 'Verify' you can check your input data and view licenses that are already generated for this Locking ID (e.g.: MAC Address) in the detail section below. If a MAC address is required please use this format: 'XX-XX-XX-XX-XX-XX'.

*MAC Address: **B** Alias Name:

MAC Address of Standby Server:

MAC Address of Network CLA: **C**

MAC Address of Network Standby CLA:

Demo NETWORK V1

Quantity to Rehost	Available Quantity	Existing Quantity New System	Max Quantity	Feature	Duration	Version	Type	Action
<input type="text" value="15"/>	15		130	Demo NETWORK V1 Comfort User		V1	New License	To be activated
<input type="text" value="1"/>	1		1	Demo NETWORK V1 Base B		V1	New License	To be activated

Figure 5 – Add existing system to network using Rehost

On page “License Rehost Details” the currently used MAC address is shown on top of the page **(A)**. If this MAC address is the local one of the system then enter it in field “MAC Address” **(B)**. Otherwise (=floating mode) please get the local MAC address of the systems and enter this value instead.

To add the system to the license network you now have to enter the “MAC Address of the Network CLA” **(C)**.

As result of the workflow, the current system is re-hosted and thereby added to the network.

4 Remove System from a License Network

It may be necessary to remove a system from a network.

This workflow results in local or floating license key(s) for the removed system. The network license key(s) of the remaining license network is deleted on CLS. To download the updated network license key use the menu item “View Used Licenses” and view the certificate details of a system remaining in the network.

License Key Details

Print Certificate Return

View Transactions

Certificate ID - 10755279 Permanent - License

General Information

Activation date: Mar 15, 2010 Status: Active

System Information

MAC Address: 00-00-10-03-15-01

MAC Address of Network MAC Address of Network
Standby CLA: CLA: 00-00-10-03-15-00

Product Information

Product: Demo NETWORK V1

Feature #	Feature	Quantity in Use	Expire Date
T31505-K97-A2	Demo NETWORK V1 Comfort User	10	
T31505-K97-A1	Demo NETWORK V1 Base A	1	

License Key(s)

No Keys

A

Generate Missing Keys

Figure 6 – Download updated network license key

The certificate will show a “Generate Missing Keys” button (A) instead of the normal license key download button(s). You have to click this button to force the CLS to generate the new network license key(s). Afterwards the download button(s) will appear.

The workflow for this is similar to the workflow for adding a system to a network. Here we also have two options to perform the operation depending on the status of the licenses.

4.1 Remove System

This is the normal workflow for removing a system from a network.

License Rehost Details

> Home
 > License
 > Network License
 > **Add / Remove System**
 > Network System Overview
 > Profile
 > Help
 > User Support
 > Product Information
 > Log out

Cancel Next >

Original System Information

Locking ID	Alias Name
00-00-10-03-15-03	

Technical Details for the New System

With 'Verify' you can check your input data and view licenses that are already generated for this Locking ID (e.g.: MAC Address) in the detail section below. If a MAC address is required please use this format: 'XX-XX-XX-XX-XX-XX'.

*MAC Address: **A** Alias Name:

MAC Address of Standby Server:

MAC Address of Network CLA: **B**

MAC Address of Network Standby CLA:

Verify Prefill Details

Demo NETWORK V1

Quantity to Rehost	Available Quantity	Existing Quantity New System	Max Quantity	Feature	Duration	Version	Type	Action
<input type="text" value="15"/>	15		130	Demo NETWORK V1 Comfort User		V1	New License	To be activated
<input type="text" value="1"/>	1		1	Demo NETWORK V1 Base B		V1	New License	To be activated

Figure 7 – Remove system from network via Rehost

- Select the menu item “Add / Remove System” and search the system.
- On the License Rehost Details page clear the input field for the network CLA MAC address (**B**).
- If the normal CLA is running on the same hardware as the product, enter as MAC address (**A**) the local one.
- If you want to use a CLA that runs on a different hardware, enter here the MAC address of this hardware.

4.2 Add-On Activation

This option can only be used, when the system should be extended too because it requires not already used licenses.

5 Network System Overview Report

License Network Overview Report

[Return to report list](#)

License Network Overview Report. Please enter the Network CLA MAC Address using this format e.g.: FE-DC-BA-98-76-54

* MAC Address of Network CLA: A

Output format:

Report Run Criteria

Report action:

Figure 8 – Network System Overview report

With the menu item “Network System Overview” it is possible to generate an Excel report that includes the details (e.g.: local MAC address, features with quantity) of all systems that have the same network CLA MAC address. To generate such a report, enter the network CLA MAC address and run the report.

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