V6R2011 Customer License Key Reference

Introduction

Audience and Scope

This document is a general reference for software license keys required by V6R2011 products and their pre-requisites. It is intended primarily for Customer personnel responsible for requesting, installing, and administering DS license keys. It applies to PLM V6R2011 Generally Available products. It should be used as a supplement to the V6 product documentation, which should always be consulted first.

It covers

- How to request keys -overview
- *Standard license keys* for V6R2011 products
- Non-standard license keys for V6R2011 products

For convenience, instructions on finding Target ID for both V6 and non-V6 products are given in Appendix C.

Standard license keys. In the standard case, a V6R2011 product uses a single Dassault Systèmes License Server ("DS LS") key. "DS LS key" refers here only to license keys used by DS LS V6R2010x and higher. Releases of DS LS V6R2010x and later are based on a new DS proprietary technology which is not compatible with the LUM-based keys used in earlier DS LS releases.

Non-standard keys. This document also covers the V6R2011 products which are exceptions to the standard, including

- Extra "connector" keys for 3DLive
- ENOVIA System-licensed products
- ENOVIA Schema Analyzer SCH
- Synchronicity Products
- ENOVIA Designer Central for CATIA V5
- Packages VLT and VLC
- 3DVIA Composer
- 3DVIA Composer Player Pro

Keys for pre-requisites. These are often keys for servers required by end-user products, or for connectors to V4 or V5 data.

New from last release

- Starting on June 08, 2010, when a key request is made for standard DS LS V6R2011 (or V6R2010x) keys for a given target ID[1], a single "wrapping" zip file will be created that contains all the keys, if the

[1] Regardless of the license key software (DS LS, FlexLM, LUM V5, LUM V4, etc), the KMCs always refer to the machine identifier as "target ID" for historical reasons, as this term was used by earlier LUM V4 and LUM V5 software license management softwares. In DS LS license key files, the actual name of the field used to identify the computer is "Computer ID".

following conditions are met:

- same target Id (it must be the same 3 target Id for Redundant)
- same Final Customer (same customer family)
- same VAR or Direct (no VAR)
- Same license key type (Server or Redundant)

If the individual keys included in the wrapping file do not all have the same end or start dates, then DS License Server V6R2010x.FP1011 or V6R2011 is needed, or else the keys will not enroll successfully. DSLS V6R2011 is fully compatible with V6R2010x clients (such as CATIA or ENOVIA server) and is recommended.

The product ENOVIA VPM Team BOM Editor changed from being an LIV Add-On type product to a V6 Web client type product. As a result, this product now requires a DS LS key instead of being activated as an Add-On to an LIV key.

The ENOVIA Indexing Server (“PIX”) no longer requires a license key.

How to Request Keys - Overview

Keys can be ordered as part of the product order. If they were not ordered at that time, then the *Key Request Form* can be downloaded from

http://www.3ds.com/terms/software-keys

This form will give the phone number, email, FAX information, and hours of availability of the KMC for your geography. The key request form also provides emergency key request contact info.

In order to get started, you will need a list of Product Numbers for all the products you have purchased.

Detailed instructions on how to gather information needed to complete the Key Request Form are provided in later sections. See table to find the section for a given product set.

V6r2011 Product set	Notes	See Section
CATIA, DELMIA, SIMULIA, and ENOVIA Shareable Products	Rich Client products, which are installed on the end-user machine. Licensed as “Shareable”	“Standard License Keys for V6R2011 Products”
ENOVIA Web Client Products (except Synchronicity)	Installed on the Server machine and accessed through the web browser. Licensed as “Named User”. Examples are CPF and the Centrals.	“Standard License Keys for V6R2011 Products”
CATIA, DELMIA, SIMULIA, and ENOVIA Add-on Products	3DLive configured key. Licensed as “Named User”	“Standard License Keys for V6R2011 Products”
Synchronicity	Flex keys	“Non-Standard License Keys for V6R2011 Products”
ENOVIA Schema Analyzer	Inova.com key	“Non-Standard License Keys for V6R2011 Products”
ENOVIA Studio Modeling Platform (DTE)	DTE keys	ENOVIA Studio Modeling Platform (DTE)
3DVIA	Flex keys	“Non-Standard License Keys for V6R2011 Products”

For Standard keys and in most other cases, you will also need to determine the target ID of the machine where each key will be enrolled. The procedure is different for Standard and for Non-Standard keys. Please see Appendix C.

Once the information has been collected for each key, the key request form can be completed and sent to the DS KMC for your geography by email, fax or telephone.

The KMC will send license keys via the FAX number or e-mail address you specify in the request.

Standard License Keys for V6R2011 Products

Overview

Standard V6 License Key Plan Types

In the standard v6 licensing model, there are three basic kinds of DS LS keys, from the perspective of system architecture:

- ***Rich client Shareable keys***
- ***Rich client Add-on Product*** keys***.*** These products do not each have individual keys, but are combined inside a configured 3DLive key.
- ***Web client keys,*** like V6R2011 ENOVIA CPF and the Centrals

ENOVIA ***web client*** product keys are consumed on the ENOVIA server side. This means that they must be enrolled on a DS LS that is accessible by the ENOVIA server. The former MatrixOne products like CPF and the Centrals have web client keys.

All of the CATIA, DELMIA, and SIMULIA Shareable and add-on (Named User) products have ***rich client*** keys, as do a small number of ENOVIA products. The keys for the rich client products are consumed on the client side.

Rich client products all have 3DLIVE as a prereq.

Products with Rich Client keys – Shareable vs. Add-on Product (Named User)

In V6, a rich client "functional' product, identified by a trigram, may be offered as more than one *orderable* product—one with Named User license, and one with Shareable license.

- In some cases, the functional product (trigram) is only offered as an add-on product (Named User). For example, the functional product with trigram "TDA" ("CATIA 3D Drafting and Annotation") can be ordered only as orderable product 6NP-TDA.
- In other cases, the function is offered in both an add-on product and a shareable product. For example, the functional product with trigram "FSD" ("CATIA Freestyle Design" in V6R2011) can be ordered as either of two different orderable products: Product Number 6NP-FSD (Named User), or Product Number 6CP-FSD (Shareable).

The function provided is identical for the add-on and shareable products for a given trigram.

Rich Client Shareable Keys

Each shareable product is enabled by its own key, unlike a configured 3DLive product.

The Shareable license is more flexible in that any 3DLIve user workstation can be configured to acquire the license, without respect to the named user. If an unused key is available from the pool, use of the product is permitted. In addition, the Shareable key can be acquired and released dynamically during the 3DLive session by any user, if a key is available in the pool. The product doesn't need to be assigned to the user.

Shareable keys are consumed on the client side.

Rich Client Add-on Product Keys

In contrast to Shareables, add-on products are purchased as part of a configured 3DLive Named User license. 3DLIve itself, plus the add-on products in the configured 3DLIve ordered product, are locked to a named user. The add-on products cannot be used or released separately.

Individual keys are not created for Add-on products. Instead, a configured ENOVIA 3DLive (“LIV”) key is created, containing the Add-On Products specified. The configured 3DLIve key enables the Named User to which it is assigned to use 3DLive plus the specified add-on products for that configuration.

When ordering a configured LIV key, all the Add-on products for that configured key must be specified.

The ENOVIA 3DLive key is consumed on the client side.

ENOVIA 3DLIVE Offline Keys

It is now possible to check out a 3DLIVE key in off- line mode that has already been assigned to a named user. Previously only keys that have never been assigned to a named user could be checked out as off-line.

Web Client Keys

These products each have their own individual DS LS key that enables one or more users, based on the number of licenses purchased. For each ENOVIA Web client product that you have purchased, you must request a key that indicates the number of named users licenses purchased for that product. Unlike the 3DLIVE and shareable keys, these keys are consumed on the ENOVIA server side.

General Information – all Standard keys

Target ID

The Target ID must be specified for all standard (DS LS V6R2011) keys. See Appendix C for instructions.

License Type

DS LS keys have a field "LicenseType" which can contain either "Floating" or "Failover". "Nodelocked" keys are no longer supported. "Floating" keys are keys served by a DS License Server. Failover keys (called "High Availability License" or "HAL" keys for DS LS/PLM V6R2010 and lower) allow a set of three license servers to act as a fault-tolerant set, with two servers taking over if one goes down.

Duration and expiration

DS LS keys have an expiration date. There is no change in duration policies from V2010x. Duration of a DS LS key depends on the Charge Option and other factors, but it is usually two years from the date of issue.

You must order replacements for expired keys if you still wish to use the products. This is true independently of the Release of the key; even if the Release of the key matches the current Release, the key will not work if it has expired.

Some customers employ a policy of "coterminous" keys, for ease of administration. This means that the keys are managed in such a way that they all expire at the same time and are replaced at the same time. If you are using such a policy you may request an expiration date earlier than the default.

It is important to monitor your key inventory for keys that are about to expire, using the DS LS V6R2011 utilities.

Release Dependency

Standard keys are good for the current release plus 4, and for any lower release.

Non-standard License Keys for V6R2011 Products

The following groups of Generally Available products have non-standard keys

- Extra “connector” keys for 3DLive
- ENOVIA System-licensed products
- ENOVIA Schema Analyzer SCH
- Synchronicity Products
- 3DVIA Composer
- ENOVIA Designer Central for CATIA V5
- Packages VLT and VLC
- Custom Configured ENOVIA Studio Keys

Extra “Connector” keys for 3DLive

As mentioned under “Standard LIcense Keys for V6R2011 Products”, the 3DLive key is a “configured” key, meaning that a single 3DLive key enables the 3DLive product itself, plus any Add-On Products which have been added into it.

3DLive supports optional connectors, such as VPM V4 and SmarTeam. In order to request these keys, it is necessary to order the corresponding product, which will be provided at no charge. *This procedure is different from the one familiar to customers transitioning from IBM*, where only 3DLIve needed to be ordered, and the extra keys were delivered based solely on that order.

For a list of these server-side additional functions, refer to “V6R2011 Products Which Require Multiple Keys” as well as your product documentation.

ENOVIA System-licensed products

The following ENOVIA System-licensed products do not require a license key.

FCS	ENOVIA File Collaboration Server
JDE	ENOVIA X-BOM for JD Edwards EnterpriseOne
ORM	ENOVIA X-BOM for Oracle Manufacturing
QAM	ENOVIA X-BOM for QAD MFG/PRO
SAM	ENOVIA X-BOM for SAP

ENOVIA Schema Analyzer

Schema Analyzer ("SCH") requires a special license key from Inova-eng.com.

Installation

When installing ENOVIA Schema Analyzer (referred to in the product technical documentation as "ESA"), the installation wizard will prompt for the serial code. This serial code is included with the distribution CD, and is required to install the product. You will enter the setup license key as given, i.e. with all numbers and dashes.

Registration

Upon successful installation, ENOVIA Schema Analyzer must be registered in order to activate the product and functionality. This product requires a nodelocked license key. Launching the product will generate a text file that contains pertinent information required for the 3rd party developer (Inova) to generate a license key for this workstation.

To obtain the license key, simply send an email to

`activation@inova-eng.com`

and attach the auto-generated text file.

The developer will email the key (referred to in the product technical documentation as "ESA activation patch") to you. This activation key is contained in a gzip compressed file with a name like

```
610-ESA-Activation.pat.gz
```

This file must be downloaded and uncompressed. Then you will have a file with a name like

```
610-ESA-Activation.pat
```

This file must be copied into the directory

```
patches
```

under the SCH installation directory (for example,

```
C:\Program Files\ENOVIA Schema Analyzer\patches
```

replacing the existing dummy file.

Then ENOVIA Schema Analyzer can be used on that workstation.

License key style

Only Nodelocked license keys are used by ENOVIA Schema Analyzer.

Synchronicity Products

All Synchronicity products require FLEXlm keys consumed on the server side.

Release dependency

FLEXlm keys for Synchronicity will work only on the release for which the key was generated or earlier. For V6R2011, you will receive keys for release number 6. When you update in the future to a higher release, you will need to request updated keys.

ENOVIA Studio Modeling Platform (DTE)

ENOVIA Studio Modeling Platform (DTE) provides the development tools for customers to customize and test changes to the ENOVIA environment before implementing the changes in their ENOVIA production environment. Starting with V6R2010x, DTE is licensed as Named User, meaning that a license of DTE should be purchased for each person in the development environment that is utilizing DTE and its included tools.

When a user is working in the development environment, if the production license server is accessible from the development environment, then no additional Named User license keys are needed for any of the software to be tested. If however, the production license server is not accessible from the development environment, then duplicate Named User license keys would need to be requested for the specific users that will be logging into the development environment.

Named User license permits the user access to a single environment at a time, so that if duplicate keys are requested for one or more users in the development environment, they can only be utilized nonconcurrently with the user's keys in the production environment

3DVIA Composer

All Generally Available 3DVIA Composer Products require FLEXlm keys. They are consumed by the end-user's machine, as 3DVIA does not have a client-server architecture.

License Key Style

All 3DVIA functional products except one are sold under both Machine-based license and Shareable license. The exception is 3DVIA Composer Player Pro, which is sold only under Machine-based license.

Sharable licensed products. The terms of the Shareable license permit a license t**o** float between machines, so you may order either Concurrent keys, which allow this flexible use, or Nodelocked keys if you prefer, although these will not allow you to enjoy the full benefits of a Shareable license.

You may also order Redundant keys for any product which permits Concurrent keys. These are installed on a set of three FLEXlm license servers, to allow failover in case of a license server outage.

Machine-based licensed products. Because the terms of Machine-based license permit the product to be installed and used on only one machine, only Nodelocked license keys should be requested for these products. The exception is again 3DVIA Composer Player Pro (PYP). Even though it may be installed on only one machine per license, you may request Concurrent ("network", "floating") keys, to simplify the administration for wider use in an enterprise. Since this will allow licenses to float on the network, be sure that you do permit use on unauthorized machines.

Release dependency and duration

FLEXlm keys for 3DVIA will work only on the release for which the key was generated or earlier. When you update in the future to a higher release, you will need to request updated keys.

ENOVIA Designer Central for CATIA V5

ENOVIA Designer Central for CATIA V5 requires a LUM V5 key consumed by the CATIA end-user session, plus a DEC key consumed on the ENOVIA server side.

ENOVIA Packages VLC and VLT

These two orderable products

- 6NP-VLC ENOVIA VPM Live Collaboration

- 6NP-VLT ENOVIA VPM Team Live Collaboration

are Packages, consisting of 3DLive (LIV) and ENOVIA Live Collaboration (CPF). VLC also includes VPM, while VLT includes VTC and MSF. **As a result, VLC and VLT do not have their own key, but require that the keys of the underlying functional products be ordered.**

Like 3DLIve, VLC and VLT require two LUM V4 VPM V4 keys in order to allow connection to VPM V4 data.

The details for the VLC and VLT multiple required keys can be found in the section “V6R2011 Products Which Require Multiple Keys”.

Custom Configured ENOVIA Studio Keys

The ENOVIA Studio VPM API (EVI), the CATIA Studio API (CTI), and the DELMIA Studio API (DMI) products do not have their own key. They are Add-on product that are enabled through a custom configured RDR or RDV key.

V6R2011 Products Which Require Multiple Keys

Note: a product order must be placed for both the base product and the product corresponding to the extra key. The extra products for the key will be provided at no extra charge.

Product Ordered - Trigram	Name	Key	Key Type	Required Component?	Function
DC5	ENOVIA Designer Central for CATIA V5	DEC	DS LS	Yes	
		CT5	LUM V4	Yes	
LIV	ENOVIA 3DLive Configuration	LIV	LIV-AOP	Yes	
		REX	LUM V4	No	View VPM V4 data
		VPM	LUM V4	No	View VPM V4 data
		LCX	LUM V4	No	View VPM V5 data
		NVR	LUM V4	No	View SMARTEAM data
VLC	ENOVIA VPM Live Collaboration	LIV	LIV-AOP	Yes	
		CPF	DS LS	Yes	
		VPM	LIV-AOP	Yes	

		REX	LUM V4	No	View VPM V4 data
		VPM	LUM V4	No	View VPM V4 data
		LCX	LUM V4	No	View VPM V5 data
		NVR	LUM V4	No	View SMARTEAM data
VLT	ENOVIA VPM Live Team Collaboration	LIV	LIV-AOP	Yes	
		CPF	DS LS	Yes	
		VTC	LIV-AOP	Yes	
		MSF	DS LS	Yes	
		REX	LUM V4	No	View VPM V4 data
		VPM	LUM V4	No	View VPM V4 data
		LCX	LUM V4	No	View VPM V5 data
		NVR	LUM V4	No	View SMARTEAM data
SDS	ENOVIA Semiconductor Accelerator for Design to Manufacture	SDS	DS LS	Yes	
		SDS	FLEXlm	Yes	
SIS	ENOVIA Semiconductor Accelerator for IP Management	SIS	DS LS	Yes	
		SIS	FLEXlm	Yes	
SPS	ENOVIA Semiconductor Accelerator for Enterprise Project	SPS	DS LS	Yes	

	Management				
		SPS	FLEXlm	Yes	
SCD	SIMULIA Scenario Definition	LSM	DS LS	Yes	
		SCE	DS LS	Yes	SCE is a technical product

Appendix A. DS LS V6R2011 Planning, Installation, and Configuration - Notes

Documentation

For complete information on this topic, please see the Program Directory and "DS LS V6R2011 Installation and Configuration Guide", which is on the product media.

Hardware and Software Requirements

For more detailed info, see the product documentation

Virtualization

The DS License Server V6R2011 does not run in a virtual environment, such as VMWare (R). It will run in an AIX LPAR.

Multiple DS License Servers for one client machine

Beginning in V6R2011, multiple DS LS's can be used to serve keys to a single client, even without implementing Failover servers.

The keys are assigned to a user via the P&O administrator function. Once accessed by a user, the key is active until expiration. Should it be necessary to reassign the key (ie user leaves company), it can be can be reassigned by the P&O administrator 30 days after initial use by the user.

DS LS keys for Shareable products are not reserved. When checked back in, they are immediately available to any user.

Release-dependent keys

DS LS keys are "release-dependent"--the key which is issued will be good only for the release to which you are entitled, plus any earlier releases. In most cases, the release of the key is the release that is generally available on the day you request the key. When you install a new release of the PLM product, you will need to request a release upgrade key from the key center.

At present, the Key Center adds a "buffer" to the release number in many cases, so that the customer doesn't need to refresh his keys as often. For V6R2011, the base release number used by the applications and the DS License Server is "7". If the buffer is "4", then the license certificate will show 11 (=7+4) in the Release field, and the key will work through release 11 if not expired.

The release and duration of the key are independent of each other. A key which has expired will not work on any release. Conversely, even after new releases become generally available, a key that has not expired will continue to work on the release it was generated for (including the buffer), and does not need to be upgraded until you install a new release.

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DS License Server/DS LS uses an internal release number to refer to each release, as follows:

Release	DS License Server/DS LS Internal release number
V6R2008-1.0	2
V6R2009	3
V6R2009x	4
V6R2010	5
V6R2010x	6
V6R2011	7

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Appendix B. Software contractual license types

PLM Version 6 products are licensed under one or more of the following license (contract) types

- *Named User (NU)*
- *System (SL)*
- *Machine-based (MB)* These type of licenses are used primarily for 3DVIA
- Shareable

This is a change from Version 5, where most products were licensed under a Concurrent User license, and Named User was not offered.

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Appendix C. Determining the Target ID

General

Most types of license key can only work on the specific piece of equipment for which the key was created: often

- an Ethernet card identified by MAC address or a valued calculated from the MAC address
- the host id
- CPU, identified by a hardwired motherboard identifier.

DS KMCs refer to this identifier as the “Target ID”, regardless of the license key software used (DS LS V6R2010x and higher, FLEXlm, LUM V4, LUM V5, etc.). See below for the actual terminology used by the license key software for each product.

When requesting a key from the KMC, you must specify the Target ID for that key. The key will only work if installed (enrolled) on the machine with this Target ID.

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DS LS V6R2010x and higher keys

Applies to

- *Rich Client Shareable keys.* V6R2010x and higher releases of CATIA, DELMIA, SIMULIA, and ENOVIA Shareable Products
- *Rich Client Add-on Product keys*. Configured 3dLive key, with the Add-on products contained in the 3DLive key. Applies to CATIA, DELMIA, SIMULIA, and ENOVIA Add-on Products.
- *Web Clients* ENOVIA products such as CPF and the Centrals

Format

The Target ID is composed of 3 letters, then "-", then 16 hexadecimal characters (0-9, A-F).

Example

JZR-4230AB7725F401F3

Instructions

The commands below should be run on the machine hosting DS LS where the keys will be enrolled.

Windows

1. From a command prompt, go to

```
C:\Program Files\Dassault Systemes\DS License Server\intel_a\code\bin
```

2. Run

```
DSLicTarget -t
```

AIX

1. cd to

```
/usr/DassaultSystemes/DSLicenseServer/aix_64/code/bin
```

2. run

```
DSLicSrv -t
```

Terminology

The field which identifies the computer is called the Target ID when dealing with the KMC. The field name inside the DS LS key is ComputerId.

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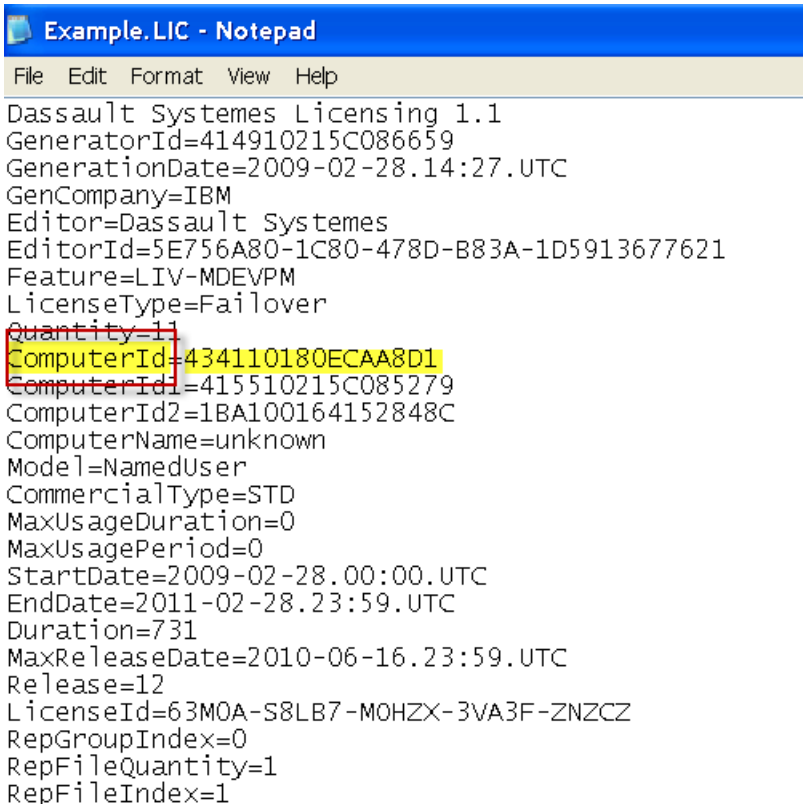

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FLEXlm

Applies to

- ENOVIA V6 Synchronicity Products
- ENOVIA V6 Semi-conductor Accelerator products
- 3DVIA Products

Windows

Format

The Target ID is the MAC address of the Network Interface Card (Ethernet card) used by the application.

The format is 12 hexadecimal characters (0-9, A-F).

Example

0015582d80b3

Instructions

Enter the following command on the command line

```
ipconfig –all
```

The target ID is the value shown for “Physical Address”

Sun Solaris

Format

Eight hexadecimal digits (0-9, A-F)

Example

22a024eb

Instructions

Enter the following command

```
usr/ucb/hostid
```

IBM AIX

Format

The Target ID is the Machine ID number of the system. The format is 12 numeric digits.

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Example

000313703100

Instructions

Enter the following command

```
usr/bin/uname -m
```

HP-UX

Format

“0x” followed by 12 hexadecimal digits.

Example

0x80000978feb9

Instructions

Enter the following command

```
/etc/lanscan
```

and find the Address for lan0

SGI Irix

Enter the following command

```
/etc/sysinfo -s
```

Terminology

This hardware identifier is variously referred to by FLEX community as “MAC Address”, “Target ID”, and other terms.

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FLEXlm – ENOVIA V6 Synchronicity 5.1 IPGear

Format

The target ID consists of 12 hexadecimal characters (0-9, A-F)

Example

```
00093d001c99
```

Instructions

Enter the following command

```
lmutil lmhostid
```

on the machine on which the license key will be installed. This utility is available upon installation of the software.

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LUM Version 4

Applies to

- ENOVIA Live Collaboration ("CPF") V6 server V6R2009
- CATIA V4 and V5 Configurations and Shareables
- DELMIA V5R18 and higher
- ENOVIA V5 Configurations and Shareables
- VPM V4
- Product Manager.

In addition V5 and V6 products like 3DLIve which access any of these types of data will require a connector, which will require a LUM V4 key.

Format

8 hexadecimal characters (0-9, A-F)

Example

0a484b66f

Instructions

For AIX®:

Use the following path **/usr/opt/ifor/bin**

Issue the command

```
i4target -OI
```

Note: the command "uname -m" is obsolete and must not be used.

The AIX Preferred LUM Target ID of your machine is displayed first. If you are using LUM 4.6.6 or higher, use the AIX Preferred LUM Target ID.

The AIX Target ID is shown second. If you are using an earlier version of LUM, use the AIX Target ID.

For HP-UX or Solaris with LUM installed:

Issue the command

```
i4target -O
```

Using path

For HP-UX:

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```
opt/lum/ls/os/hpux/bin/
```

For Solaris

```
opt/lum/ls/os/solaris/bin/
```

The Target ID of your machine is displayed.

For HP-UX or Solaris without LUM installed:

Refer to the operating system support information provided by the manufacturer for the appropriate command syntax to determine the Target ID.

For Windows:

Issue the command

```
i4target –O
```

to read the Target ID.

Target IDs for Windows are found by reading the network adapter MAC address installed and configured on the machine. If a device driver for a network adapter is detected, the Target ID is displayed, with win32mac as the target type and a symbolic name for the device driver from which the Target ID was taken. For example:

```
2857a1aa win32mac MAC/LLA Address IBMTRP1
```

The Target ID also appears when the network license server is started or when you run a license-enabled product.

The entry I4DRIVER is stored in the Windows registry, in the path

```
HKEY_LOCALMACHINE\SOFTWARE\IBM\License Use Runtime
```

to record the name of the network device driver used to retrieve the Target ID. If you remove the adapter or the device driver, licenses generated to work with this Target ID will no longer be usable.

For any problems related to LUM configuration, please check the readme file located on the LUM CD-ROMe.

A Target ID is displayed.

For HAL Clusters:

Licenses for a HAL Cluster require an additional identifier beyond the Target ID. This identifier is called Cluster ID.

The Cluster ID is automatically generated by License Use Management when a HAL Cluster is created and activated. The Cluster ID is shown in the **Clusters** panels of the i4blt graphical user interface or by issuing the command

```
i4blt -H s -N cluster_name
```

where ***cluster_name*** is the name assigned to the cluster when it was created.

To request a license for a HAL Cluster, both the Target ID and the Cluster ID are required.

Terminology

LUM V4 uses the same term for the hardware equipment identifier as the DS KMCs: “target id”.

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LUM Version 5 (also known as “DS LS” prior to V6R2010x)

Applies to

- First release of 3DLIve V6
- V6R2009 through V6R2010.

Format

16 hexadecimal characters (0-9, A-F)

Example

```
1e9460004a6475bc
```

Instructions

Run the following command

```
lumtarget
```

Terminology

LUM V5 and DS LS V6R2009 through V6R2010 use same term as DS KMCs: “target ID”

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Applies to

ENOVIA Schema Analyzer

Note: For information on special key request procedure, please see above in the document.

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Change Log

Rev	Date	Change
--	27-July-2010	Initial release
1	8-Oct-2010	Added section on DTE usage and keys
		Removed non-V6 target ID topics from Appendix C; it is now included in the Customer License Key Reference – Excludes V6 document

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