

HCL Z License Verification Version 1.1

Administration and User Guide

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Chapter 1. Product overview

HCL Z License Verification (ZLV) enables you to upload your license information into IBM Z Asset Management (IZSAM) V8.2 and verify that these licenses match the IZSAM V8.2 data that has been identified.

HCL Z License Verification does not require the IZSAM V8.2 Analyzer to be running.



Note: In order to run ZLV, a License Key is required and this will be provided by HCL. For more information refer to [Updating the License Key on page 6](#).

Hardware and software pre-requisites

To install ZLV, you need to download ZLV, configure and implement it into an existing IZSAM V8.2 repository. ZLV requires you to install two components: z/OS and Linux.



Note: ZLV is supported in IZSAM V8.2 databases only.

Hardware requirements

ZLV requires a z/Architecture® machine capable of running z/OS® Version 2 Release 4, or later.

Software requirements

The software required for ZLV is:

- z/OS® Version 2 Release 4, or later, with z/OS® UNIX® System Services configured.
- Database software:
 - Db2® for z/OS® Version 12, Release 1, and Db2® Utilities for z/OS®
 - Db2® for z/OS® Version 13, Release 1, and Db2® Utilities for z/OS®
 - Language Environment® for z/OS®

SMP/E installation

Run the SMP/E (System Modification Program/Extended) installation of the product, followed by the customization of the JCLs and members in the target libraries.

The target libraries consist of:

zlv.SZLVSAMP

JCLs and PARMLIB members

zlv.SZLVMOD1

modules

Z License Verification installation (Linux® and z/OS® UNIX®)

The Z License Verification contains a zip file you need to install. This zip file is included in the product:

- ZLV_Installation_zOS-USS-Package-V11.zip

Unzip the file and open the 'README' file for pre-requisites and installation instructions. The "*Installation and Configuration Guide*" is included in this zip file.



Note: The installation involves downloading the zip file to a Linux system, where it is unzipped and then configured. Once configuration is complete, the product is deployed to a z/OS UNIX host environment, where further configuration is required.

Customization and implementation of Z License Verification

Before you use ZLV, there are some customization and implementation steps that must be run.

Select an existing IZSAM V8.2 repository to implement ZLV. If you have multiple repositories running on the same Db2® subsystem, you need to only implement ZLV in one repository.

Table 1. List of supplied members in z/OS

Member name	Description	Target Dataset
ZLVLICPM	Job to create tablespaces, tables, and indexes	JCLLIB
ZVLICRE	Job to create License Key dataset	JCLLIB
ZVLICI	License Import job	JCLLIB
ZVLICV	License Verify job	JCLLIB
ZVLIC20	DDLs to drop/create tablespaces - VLICENSE and VLICENTL	PARMLIB
ZVLIC21	DDLs to create tables/indexes - TLICENSE and LICENSE_VERIFY	PARMLIB
ZVLIC22	Unload statements for TLICENSE and LICENSE_VERIFY tables	PARMLIB
ZVLIC23	Load statements for TLICENSE and LICENSE_VERIFY tables	PARMLIB

1. Copy the 4 members – ZVLICPM, ZVLICRE, ZVLICI, and ZVLICV, to the JCLLIB dataset where you intend to implement ZLV.
2. Edit and update members ZVLICPM, ZVLICRE, ZVLICI, and ZVLICV in the JCLLIB dataset.
3. Concatenate the ZLV load library, zlv.SZLVMOD1, to the //STEPLIB DD statement of the JCLLIB member, HSIJSQLE.
4. Copy the 4 members – ZVLIC20, ZVLIC21, ZVLIC22, and ZVLIC23, to the PARMLIB dataset where you intend to implement ZLV.
5. Edit and update members ZVLIC20 and ZVLIC21. Member ZVLIC20 contains definitions of the tablespaces and ZVLIC21 contains definitions of the tables and indexes. Db2® parameters that are defined in these members must be replaced with the same Db2® parameter values that are used in an existing IZSAM V8.2 repository, where ZLV is to be implemented.

Members ZVLIC20 and ZVLIC21 are to be edited and updated before running the batch jobs.

Members ZVLIC22 and ZVLIC23 are to be edited and updated for '[Post Implementation on page 7](#)'.

&DB

Name of the Db2® database

&REPZSCHM

Name of the repository

&SGHSITAB

Storage Group for tablespaces

&SGHSIIDX

Storage Group for indexes

&BPTS

Buffer pool for tablespaces

&BPIX

Buffer pool for indexes

6. To run these jobs, see '[Running batch jobs from JCLLIB on page 6](#)'.

Chapter 2. Running batch jobs from JCLLIB

Listed in this section are the batch jobs you must run to implement ZLV.

Running ZLVLICPM to create Db2® objects

To create Db2® objects, follow the steps outlined in this section.

About this task

ZLVLICPM is a batch job that drops and creates tablespaces, tables, and indexes required for Z License Verification.

Procedure

To run ZLVLICPM, you need to customize the job, and PARMLIB members ZLVLIC20 and ZLVLIC21 before submission.

Updating the License Key

HCL will supply you with a License Key, which needs to be uploaded to the mainframe. To update the License Key, follow the steps outlined in this section.

About this task

ZLVLICRE is a batch job used to create a sequential file for storing the License Key (binary format). The License Key is required by jobs, ZLVLIC1 and ZLVLICV.

Procedure

1. To run the creation job, use job ZLVLICRE. You need to customize this job before submission.
2. To populate the sequential file with the supplied License Key, you need to upload the License Key to the host. See the following sample instructions for upload via FTP:

```
C:\Users\userid1>ftp
ftp> open pthomu1.prod.hclpnp.com
Connected to pthomu1.prod.hclpnp.com.
220-FTPD1 IBM FTP CS V2R3 at PTHOMU1.prod.hclpnp.com, 04:01:37 on 2022-mm-dd.
220 Connection will close if idle for more than 60 minutes.
501 command OPTS aborted -- no options supported for UTF8
User (pthomu1.prod.hclpnp.com:(none)): userid1
331 Send password please.
Password:
230 USERID1 is logged on. Working directory is "USERID1.".
ftp>bin
ftp> put C:\temp\lickey 'ZLV.LICENSE.KEY'
200 Port request OK.
125 Storing data set ZLV.LICENSE.KEY
250 Transfer completed successfully.
ftp: 682518 bytes received in 3.99Seconds 170.93Kbytes/sec.
ftp> quit
221 Quit command received. Goodbye.
```

Running License Verification Import

To run the License Verification Import, follow the steps outlined in this section.

About this task

ZLVLICI is a batch job that imports your license data into the TLICENSE table. The file to be imported is the uploaded CSV file on the host. The CSV file is created using the Extract Product Information report. See [Creating the CSV file on page 12](#) and [Uploading the CSV file to the host on page 13](#).

Each CSV file contains license data from only a single repository. You can import only a single CSV file at a time.

Following is a scenario where CSV files from multiple repositories are to be imported.

Consider there are four repositories – REP1, REP2, REP3, REP4, that are defined in the same Db2® subsystem (DB2A) and ZLV is implemented in REP1. CSV files created from REP1 to REP4 are separately collected. Job ZLVLICI needs to be run four times to import these CSV files separately.

Note: If in another Db2® subsystem (DB2B), a repository with an identical name (REP3) is used, then a different ZLV must be implemented in a repository defined to DB2B. The CSV file collected from REP3 can then be imported into a repository belonging to DB2B.

Procedure

1. To run the License Verification Import, use job ZLVLICI. You need to customize this job before submission.
2. When the batch job is submitted the //SYSPRINT displays any problems with the importing of the data.
3. Correct any errors and then re-import them until you are satisfied.
4. Both ZLVLICI and ZLVLICV jobs can be run only after you have loaded the Inquisitor data into the Repository.

Running License Verify

To run the License Verify job, follow the steps outlined in this section.

About this task

ZLVLICV is a batch job that verifies imported data in the TLICENSE table against the IZSAM V8.2 PRODUCT table and the results are then loaded into the LICENSE_VERIFY table.

To verify imported data of multiple repositories in the TLICENSE table, you have to run the License Verify job for each repository, one after another.

The //USERPARM controls the repository to be verified. Only license data of repositories imported in job ZLVLICI can be verified in ZLVLICV.

Procedure

To run License Verify, use job ZLVLICV. You need to customize this job before submission.

Post implementation

Some existing members in JCLLIB and PARMLIB used for managing the IZSAM V8.2 repository where the ZLV is implemented need to be updated.

PARMLIB member HSISUNL2

Copy contents from ZLVLIC22 and replace the same Db2® UNLOAD statements for tables TLICENSE and LICENSE_VERIFY. These Db2® UNLOAD statements are located towards the end of the PARMLIB member. Replace the &REPZSCHM parameter with the repository schema name.

PARMLIB member HSISLOD2

Copy contents from member ZLVLIC23 and replace the same Db2® LOAD statements for tables TLICENSE and LICENSE_VERIFY. These Db2® LOAD statements are located towards the end of the PARMLIB member. Replace the &REPZSCHM parameter with the repository schema name.

PARMLIB member HSISSQ17

Copy contents from member ZLVLIC20 and replace the same Db2® DDL statements for tablespaces VLICENSE and VLICENTL. These Db2® DDL statements are located towards the end of the PARMLIB member. Replace the &DB, &SGHSITAB, &BPTS parameters with values for the repository.

DO NOT copy the DROP tablespace statements.

PARMLIB member HSISSQ18

Copy contents from member ZLVLIC21 and replace the same Db2® DDL statements for tables/indexes TLICENSE and LICENSE_VERIFY. These Db2® DDL statements are located towards the end of the PARMLIB member. Replace the &REPZSCHM, &DB, &SGHSIIDX, &BPIX parameters with values for the repository.

PARMLIB member HSISLODR

In PARMLIB member HSISLODR, uncomment the two REPAIR input statements for tablespaces VLICENSE and VLICENTL .

PARMLIB member HSISUIP2

In PARMLIB member HSISUIP2, uncomment the two RUNSTATS input statements for tablespaces VLICENSE and VLICENTL.

JCLLIB member HSISLO82

In JCLLIB job HSISLO82, uncomment the two DD statements:

```
//*LICENSE
//*LICENTL
```

JCLLIB member HSISUN82

In JCLLIB job HSISUN82, uncomment the two DD statements:

```
//*LICENSE
//*LICENTL
```


JCLLIB member HSI SGRTB

In JCLLIB job HSI SGRTB, uncomment the two GRANT SELECT statements for TLICENSE and LICENSE_VERIFY tables.

JCLLIB member HSI SUT01

In JCLLIB job HSI SUT01:

- uncomment the two DD statements for tablespaces VLICENSE and VLICENTL.
- uncomment the two COPY input statements for tablespaces VLICENSE and VLICENTL.

JCLLIB member HSI SUT02

In JCLLIB job HSI SUT02, uncomment the two RECOVER input statements for tablespaces VLICENSE and VLICENTL.

JCLLIB member HSI SUT03

In JCLLIB job HSI SUT03, uncomment the two REORG input statements for tablespaces VLICENSE and VLICENTL.

Chapter 3. Online login to Z License Verification

Using its own server, Z License Verification requires a separate login.

Using ZLV you can run the following reports:

1. Products with a License
2. License without a Product
3. Products without a License
4. Licenses Verified

To use ZLV:

1. Ensure the Repository has been populated with Inquisitor information.
2. Sign on to use ZLV.
3. Download the Product License report to create the CSV file.
4. Edit and populate missing information in the CSV file, See [Input file layout on page 36](#).
5. Upload the CSV file to the host.
6. Run the License Verification Import job (ZVLVICI) using the input file from the previous step.
7. Run the License Verification Verify job (ZVLVICV).
8. Display reports according to the selection criteria.

License Verification login steps

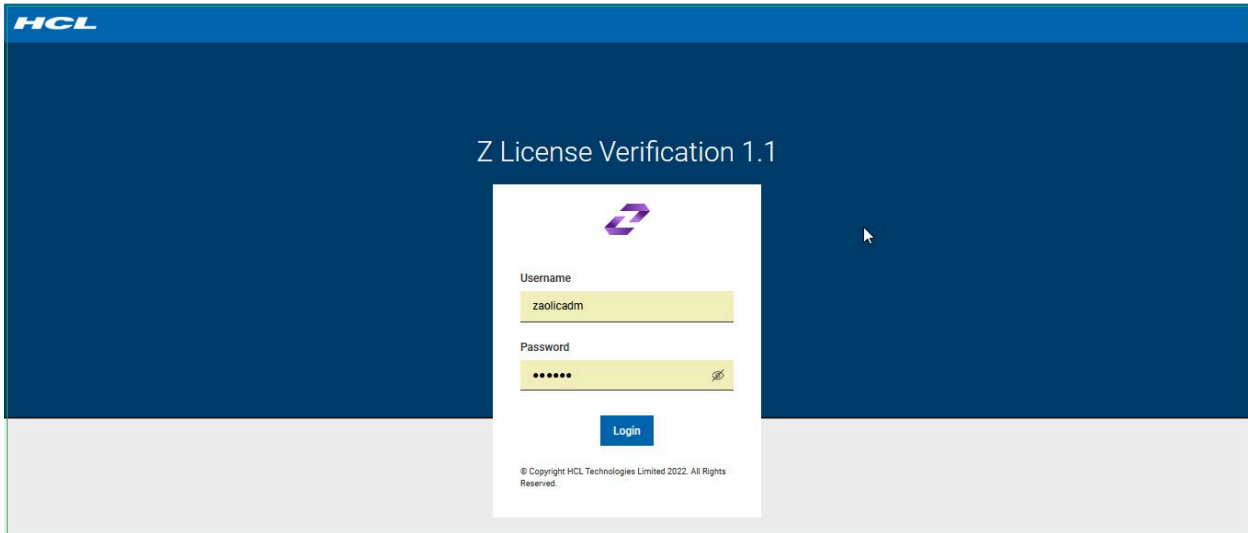
To login to License Verification, follow the steps outlined in this section.

About this task

A single userid and password are supplied with the product for this release. To login, follow the steps provided below.

Procedure

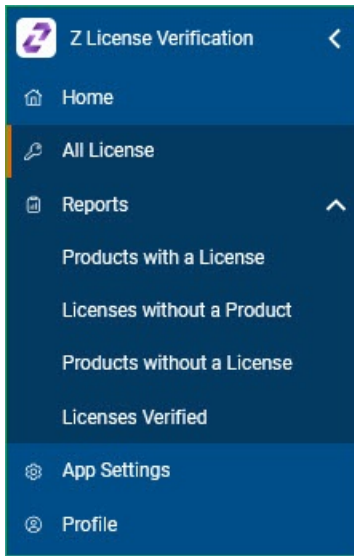
1. Enter the URL provided by your administrator into your web browser and press **Enter**.
URL: "**system.yourdomain.com:yourport**"
You are directed to the **Login** page:



2. Enter a valid username in the **Username** field. Enter a valid password in the **Password** field. The above screen shows the default supplied userid. This userid is the only ID that will create other users for License Verification.



3. Select the Repository from the pull-down menu under **IZSAM V8.2 Repository** that contains the imported license data.
4. The Sidebar, as shown, is expanded. When a report is selected, it will revert back to the side.



There are five reports:

- All License - Shows all the currently loaded licenses.
- Products with a License - Shows products that have a license.
- Licenses without a Product - Shows licenses entered that do not have a product.
- Products without a License - Shows products in the Repository that do not have a license.
- Licenses Verified - Shows verified license reports.

What to do next

Before you can run any of the reports you must first create CSV files for each of the Repositories that you wish to process. To

do this select the ICON below from the Dashboard screen at Top Right.




Creating the CSV file

The **Extract Product Information** report is used to create a CSV file that contains basic data such as Vendor Name and Product Name that have been identified by IBM IZSAM V8.2.

Procedure

1. In the CSV generated file, fill in the blank columns with license information. Refer to the [Input file layout on page 36](#).
2. Date columns must be in the format YYYY-MM-DD.
3. You can make any changes except for the Vendor and Product names, as data for these two columns are used to verify license information.
4. The generated CSV file, once completed, has to be ported to the host as a sequential file. This sequential file is used as input to the License Import batch job, ZLVLCI.

The above screen is displayed when you select the **Extract Product Information** report. When you press the blue **Download** button, , the report will run with the output saved to the browser download location.

Use an editor to make any changes to the generated CSV file. See [Input file layout on page 36](#).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
1	Schema	Repname	Site	Machine	Serial	LPAR	License Ty	License Sc	License Da	License Re	ELA Start	ELA End	Dr	Vendor	Product	Feature	Version	PID	S&S
2	V9DEMO	V9DEMO	,	2827-507	E8C86,	US01,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
3	V9DEMO	V9DEMO	,	2964-506	A1F27,	US03,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
4	V9DEMO	V9DEMO	,	2964-510	91D27,	US02,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
5	V9DEMO	V9DEMO	,	8561-503	3FA98,	AU01,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
6	V9DEMO	V9DEMO	,	8561-503	3FA98,	AU02,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
7	V9DEMO	V9DEMO	,	8561-506	3FAB8,	US01,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
8	V9DEMO	V9DEMO	,	8561-506	3FAC8,	US03,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
9	V9DEMO	V9DEMO	,	8561-510	3FAA8,	US02,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
0	V9DEMO	V9DEMO	,	8561-510	3FA98,	AU01,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
1	V9DEMO	V9DEMO	,	8561-510	3FA98,	AU02,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
2	V9DEMO	V9DEMO	,			AU01,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	
3	V9DEMO	V9DEMO	,			AU02,								eFunds Int	CONNEX f	BASE	V3	ISV-000409	

You can input your license data into this file (sample shown above). There is one requirement when it comes to entering dates. The format of the dates must be yyyy-mm-dd. Once completed and saved, make sure the dates are in the correct format as xls can change the dates. Always save as "CSV (Comma Delimited)".

Uploading the CSV file to the host

To upload your CSV file to the host, follow the steps outlined in this section.

About this task

Procedure

1. Create a sequential file (USERID1.TLIC.OUT) on the host. See the following sample attributes:

```

Organization . . . : PS
Record format . . . : VB
Record length . . . : 2000
Block size . . . . : 6144
1st extent tracks . : 5
Secondary tracks . : 5

```

- 2.

To upload the generated CSV file to the host via FTP, see the following sample instructions:

```
C:\Users\userid1>ftp
ftp> open pthomu1.prod.hclpnp.com
Connected to pthomu1.prod.hclpnp.com.
220-FTPD1 IBM FTP CS V2R3 at PTHOMU1.prod.hclpnp.com, 04:01:37 on 2022-mm-dd.
220 Connection will close if idle for more than 60 minutes.
501 command OPTS aborted -- no options supported for UTF8
User (pthomu1.prod.hclpnp.com:(none)): userid1
331 Send password please.
Password:
230 USERID1 is logged on. Working directory is "USERID1.".
ftp> put C:\temp\tlic.csv 'USERID1.TLIC.OUT'
200 Port request OK.
125 Storing data set USERID1.TLIC.OUT
250 Transfer completed successfully.
ftp: 682518 bytes received in 3.99Seconds 170.93Kbytes/sec.
ftp> quit
221 Quit command received. Goodbye.
```

Chapter 4. Reporting

Listed in this section are the reports which you can use to display license data.

All License

The All License report displays the raw license data that you imported via the License Verification Import batch job, ZLVLIC1. Before you run any reports you need to run the License Verify batch job, ZLVLICV. See [Running License Verify on page 7](#).

All License

</

Basic Details

License No
52

Basic Details

Repname: LICENSE TEST

Site:

Machine: 8561-508

Serial Number: 567B8

LPAR: OMU3

Vendor: IBM

Product: z/OS

Feature: z/OS V2 Adv Data Gatherer

Version: 2

PID: 5650-ZOS

S&S PID:

EID PID: S018K16

> License Details

> Vendor Details

> Owner Details

At the bottom of this screen are drop down arrows for the following: **License Details**, **Vendor Details**, and **Owner Details**.

License Details

License No
52

> Basic Details

License Details

Type:

Scope: Machine

License Date: 2019-03-29

Renew Date: 2023-03-29

ELA:

Capacity Unit: MSU

Quantity: 661

> Vendor Details

> Owner Details

The **License Details** screen shows the license details. Currently only MSU is supported as a Capacity unit.

Vendor Details

License No
52

> Basic Details

> License Details

Vendor Details

Name: Mr IBM

Title: Main IBM Man

Phone: 12345

Email: ibm.sales@ibm.com

> Owner Details

The **Vendor Details** screen displays the contact information for the vendor that the product was purchased from.

Owner Details

License No

52

> Basic Details

> License Details

> Vendor Details

> Owner Details


Name: HCL Sysprog

Title: Sysprog

Department: Tech

Phone: 3456

Email: prog@hcl.com

The **Owner Details** screen shows the contact for the licensed product at your company. If the data needs to be changed, you can either update the CSV file with your changes and then run ZLVLCI again to reload the license data. The data in the License table will be replaced with the updated data, or you can edit the data online by clicking on the **Edit** button . The **Update** screen is displayed:

Update

Basic Details

Site

Example - Central SiteA - Client1

Machine

8561-503

Serial Number

3FA98

LPAR

AU02

Repository

ZAOREP4


Vendor

MSO-Client

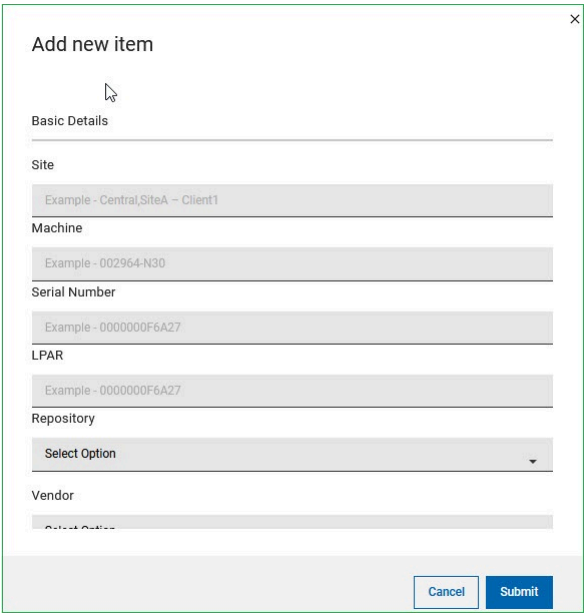
Cancel

Submit

Scroll through the record until you find the item you want to edit and, if there are no other changes to be done, click on **Submit**. The entry in the License table will be updated with your changes.

To add new entries, click on the **Create New**  button.

The **Add new item** screen is displayed:

A screenshot of a web application window titled "Add new item" with a close button (X) in the top right corner. The form is divided into sections by horizontal lines. The first section is labeled "Basic Details". Below it, there are several input fields: "Site" with the value "Example - Central, SiteA - Client1", "Machine" with "Example - 002964-N30", "Serial Number" with "Example - 0000000F6A27", "LPAR" with "Example - 0000000F6A27", "Repository" with a dropdown menu showing "Select Option", and "Vendor" with a dropdown menu showing "Select Option". At the bottom right of the form, there are two buttons: "Cancel" and "Submit".

For the Vendor, Product, Feature and Version fields, you can either select from data that has already been imported in the PRODUCT table by IZSAM 8.2, or add new data directly into each field. Once you enter a new value, you must select it in order for it to be added. Do this for each of the new fields. Once all additions are done, click on the **Submit** button and the new entry will be added into the database. If you have added a new Vendor, it is recommended to download the data as CSV so you have a backup copy.

Products with a License

Report showing all Licenses that are licensed as Enterprise, LPAR, or Machine.

Products with a License Enterprise

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	SYSPLEX	SYSTEM	Capacity	Type	MLC	IPLA	SUBCAP	MACHINE	LAST USED
BMC Software	BMC System Administration for IMS	BASE	V2	ZAOREP4	ISV-002232	SYSADIMS	AUPLEX	AU01	133	Enterprise					008561 3FA98 CPCWSQF	
BMC Software	BMC System Administration for IMS	BASE	V2	ZAOREP4	ISV-002232	SYSADIMS	AUPLEX	AU02	133	Enterprise					008561 3FA98 CPCWSQF	
BMC Software	BMC System Administration for IMS	BASE	V2	ZAOREP4	ISV-002232	SYSADIMS	USPLEX	US01	512	Enterprise					008561 3FAB8 CPCNRQA	
BMC Software	BMC System Administration for IMS	BASE	V2	ZAOREP4	ISV-002232	SYSADIMS	USPLEX	US02	483	Enterprise					008561 3FAA8 CPCNRQB	
BMC Software	BMC System Administration for IMS	BASE	V2	ZAOREP4	ISV-002232	SYSADIMS	USPLEX	US03	512	Enterprise					008561 3FAC8 CPCNRQC	
BMC Software	CATALOG MANAGER for DB2	BASE	V10	ZAOREP4	ISV-004458	CATMAN	AUPLEX	AU01	133	Enterprise					008561 3FA98 CPCWSQF	
BMC Software	CATALOG MANAGER for DB2	BASE	V10	ZAOREP4	ISV-004458	CATMAN	AUPLEX	AU02	133	Enterprise					008561 3FA98 CPCWSQF	
BMC Software	CATALOG MANAGER for DB2	BASE	V11	ZAOREP4	ISV-004459	CATMAN	AUPLEX	AU01	133	Enterprise					008561 3FA98 CPCWSQF	
BMC Software	CATALOG MANAGER for DB2	BASE	V11	ZAOREP4	ISV-004459	CATMAN	AUPLEX	AU02	133	Enterprise					008561 3FA98 CPCWSQF	
BMC Software	CHANGE ACCUMULATION PLUS	BASE	V1	ZAOREP4	ISV-000059	CHGACCUM	AUPLEX	AU01	133	Enterprise					008561 3FA98 CPCWSQF	

The report shows all the licenses that are licensed as Enterprise. You can **Search** for vendors or products using the **Search** facility. This is **case sensitive**. The report also allows you to choose which License data Repository you wish to view. To change the Repository, click on the selection box next to **License Data**: and any Repository data that has been imported is displayed. Select the Repository you wish to view.

Table 2. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.
SSPID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.

Table 2. Report Columns (continued)

Column Name	Description
SYSPLEX	The name of the SYSPLEX that the product was discovered on.
SYSTEM	The name of the System/LPAR that the product was discovered on.
Capacity	The Capacity of the License.
Type	The type of License being shown. For example, Enterprise, LPAR, or Machine.
MLC	For IBM products, if the product is a Monthly License Charge, then a Y is displayed, if not, then a N is displayed.
IPLA	For IBM products if the product is IPLA or more commonly known as One Time Charge, then a Y will appear if it is or an N if not.
SUBCAP	<p>In this field you will see:</p> <ul style="list-style-type: none"> • Reference based - Applies to z/Architecture IPLA products whose value is based on the value of another product. For example, a reference base Db2® tool would be priced based on the license capacity of Db2®. In this case, Db2® is the parent product of the Db2® tool. reference base IPLA products do not appear on the sub-capacity report because the parent products already appear on the report. • z/OS®-based – Applies to IPLA products that run under z/OS® and provide value to the particular machine where the product is used. These products are priced based on the license capacity of z/OS® on the CPC where the product is used. z/OS®-based IPLA products do not appear on the sub-capacity report because z/OS® already appears on the report. • Execution based - Applies to z/Architecture IPLA products whose value is based on the processing power of the LPAR in which they run. These products are priced based on the utilization capacity of the LPARs in which they run. Execution-based IPLA products appear on the sub-capacity report if those products execute on a CPC where you run the SCRT. • Not eligible or blank <p>These values only apply to IPLA products that have a Y.</p>
Machine	The model and CPU that the product is installed on.
Last Used	The date the product was last used.

Products with a License LPAR

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	SYSPLEX	SYSTEM	Capacity	Type	MLC	IPLA	SUBCAP	MACHINE	LAST USED
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE	AUPLEX	AU01	133	LPAR					008561 3FA98 CPCWSQF	
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE	AUPLEX	AU02	133	LPAR					008561 3FA98 CPCWSQF	2021-03-01
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE	USPLEX	US01	512	LPAR					008561 3FAB8 CPCNRQA	2021-03-01
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE	USPLEX	US02	483	LPAR					008561 3FAA8 CPCNRQB	2021-03-01
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE	USPLEX	US03	512	LPAR					008561 3FAC8 CPCNRQC	2021-03-01
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	V5	ZAOREP4	ISV-005479	BRIMS	AUPLEX	AU01	133	LPAR	N	N			008561 3FA98 CPCWSQF	2021-03-01
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	V5	ZAOREP4	ISV-005479	BRIMS	AUPLEX	AU02	133	LPAR	N	N			008561 3FA98 CPCWSQF	2021-03-01
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	V5	ZAOREP4	ISV-005479	BRIMS	USPLEX	US01	512	LPAR	N	N			008561 3FAB8 CPCNRQA	2021-03-01
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	V5	ZAOREP4	ISV-005479	BRIMS	USPLEX	US02	483	LPAR	N	N			008561 3FAA8 CPCNRQB	2021-03-01
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	V5	ZAOREP4	ISV-005479	BRIMS	USPLEX	US03	512	LPAR	N	N			008561 3FAC8 CPCNRQC	2021-03-01

The report shows products that are LPAR licensed, and which machines the LPARs are on. You can **Search** for Vendors or Products using the **Search** facility. This is **case sensitive**. The report also allows you to choose which License data Repository you wish to view. To change the Repository next to the License Data, click on the selection box and the Repository data that has been imported is displayed. Select the Repository you wish to view.

Table 3. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.
S&S PID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.
Sysplex Name	The name of the SYSPLEX that the product was discovered on.
System Name	The name of the System/LPAR that the product was discovered on.

Table 3. Report Columns (continued)

Column Name	Description
Capacity	The Capacity of the License.
Type	The type of License being shown. For example, Enterprise, LPAR, or Machine.
MLC	For IBM products, if the product is a Monthly License Charge, then a Y is displayed, if not, then a N is displayed.
IPLA	<p>In this field you will see:</p> <ul style="list-style-type: none"> • Reference based - Applies to z/Architecture IPLA products whose value is based on the value of another product. For example, a reference base Db2® tool would be priced based on the license capacity of Db2®. In this case, Db2® is the parent product of the Db2® tool. reference base IPLA products do not appear on the sub-capacity report because the parent products already appear on the report. • z/OS®-based – Applies to IPLA products that run under z/OS® and provide value to the particular machine where the product is used. These products are priced based on the license capacity of z/OS® on the CPC where the product is used. z/OS®-based IPLA products do not appear on the sub-capacity report because z/OS® already appears on the report. • Execution based - Applies to z/Architecture IPLA products whose value is based on the processing power of the LPAR in which they run. These products are priced based on the utilization capacity of the LPARs in which they run. Execution-based IPLA products appear on the sub-capacity report if those products execute on a CPC where you run the SCRT. • Not eligible or blank <p>These values only apply to IPLA products that have a Y.</p>
Machine	The model and CPU that the product is installed on.
Last Used	The date the product was last used.

Products with a License Machine

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	SYSplex	SYSTEM	Capacity	Type	MLC	IPLA	SUBCAP	MACHINE	LAST USED
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE		AUPLEX	AU01	133	Machine				008561 3FA98 CPCWSQF	
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE		AUPLEX	AU02	133	Machine				008561 3FA98 CPCWSQF	2021-03-01
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE		USPLEX	US01	512	Machine				008561 3FAB8 CPCNRQA	2021-03-01
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE		USPLEX	US02	483	Machine				008561 3FAA8 CPCNRQB	2021-03-01
BMC Software	BMC AMI Apptune for Db2	BASE	V12	ZAOREP4	ISV-005617	APPTUNE		USPLEX	US03	512	Machine				008561 3FAC8 CPCNRQC	2021-03-01
BMC Software	BMC AMI Change Manager for Db2	BASE	V12	ZAOREP4	ISV-005620	CHGMANDB		AUPLEX	AU01	133	Machine				008561 3FA98 CPCWSQF	
BMC Software	BMC AMI Change Manager for Db2	BASE	V12	ZAOREP4	ISV-005620	CHGMANDB		AUPLEX	AU02	133	Machine				008561 3FA98 CPCWSQF	
BMC Software	BMC AMI Change Manager for Db2	BASE	V12	ZAOREP4	ISV-005620	CHGMANDB		USPLEX	US01	512	Machine				008561 3FAB8 CPCNRQA	
BMC Software	BMC AMI Change Manager for Db2	BASE	V12	ZAOREP4	ISV-005620	CHGMANDB		USPLEX	US02	483	Machine				008561 3FAA8 CPCNRQB	
BMC Software	BMC AMI Change Manager for Db2	BASE	V12	ZAOREP4	ISV-005620	CHGMANDB		USPLEX	US03	512	Machine				008561 3FAC8 CPCNRQC	

The report shows products that are machine licensed. You can **Search** for Vendors or Products using the **Search** facility. This is **case sensitive**. The report also allows you to choose which License data Repository you wish to view. To change the Repository next to the License Data, click on the selection box and the Repository data that has been imported is displayed. Select the Repository you wish to view.

Table 4. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.
S&S PID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.
Sysplex Name	The name of the SYSplex that the product was discovered on.
System Name	The name of the System/LPAR that the product was discovered on.
Capacity	The Capacity of the License.

Table 4. Report Columns (continued)

Column Name	Description
Type	The type of License being shown. For example, Enterprise, LPAR, or Machine.
MLC	For IBM products, if the product is a Monthly License Charge, then a Y is displayed, if not, then a N is displayed.
IPLA	For IBM products if the product is IPLA, or more commonly known as One Time Charge, then a Y will appear, if not, then a N is displayed.
SUBCAP	<p>In this field you will see:</p> <ul style="list-style-type: none"> • Reference based -Applies to z/Architecture IPLA products whose value is based on the value of another product called the parent product. For example, a reference base Db2® tool would be priced based on the license capacity of Db2®. In this case, Db2® is the parent product of the Db2® tool. reference base IPLA products do not appear on the sub-capacity report because the parent products already appear on the report. • z/OS®-based – Applies to IPLA products that run under z/OS® and provide value to the particular machine where the product is used. These products are priced based on the license capacity of z/OS on the CPC where the product is used. z/OS®-based IPLA products do not appear on the sub-capacity report because z/OS® already appears on the report. • Execution based - Applies to z/Architecture IPLA products whose value is based on the processing power of the LPAR in which they run. These products are priced based on the utilization capacity of the LPARs in which they run. Execution-based IPLA products appear on the sub-capacity report if those products execute on a CPC where you run the SCRT. • Not eligible or blank <p>These values only apply to IPLA products that have a Y.</p>
Machine	The model and CPU that the product is installed on.
Last Used	The date the product was last used.

Licenses without a Product

Report showing Licenses for a product that has not been identified.

Licenses without a Product

This report is crucial. Having a license for a product that has not been identified is a cause for concern and investigation. The reason for this could be that the product is not in the GKB(IZSAM V8.2 Knowledge database). The product is identified, but the version is UNKNOWN.

Another possible cause is that you have a license for a product that has been removed and the license information needs to also be removed.

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	License Scope	License Date	ELA Date
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617	APPTUNE		Machine	2009-03-29	
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617	APPTUNE		LPAR	2009-03-29	
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	4	ZAOREP4	ISV-001582	BRSIMS		LPAR	2011-03-22	
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	5	ZAOREP4	ISV-005479	BRSIMS		LPAR	2012-03-22	
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	1	ZAOREP4	ISV-004429	BRSIMS		LPAR	2010-03-22	
BMC Software	BMC AMI Change Manager for Db2	BASE	12	ZAOREP4	ISV-005620	CHGMANDB		Machine	2012-03-22	
BMC Software	BMC AMI Change Manager for Db2	BASE	12	ZAOREP4	ISV-005620	CHGMANDB		Machine	2012-03-22	
BMC Software	BMC AMI Change Manager for Db2	BASE	11	ZAOREP4	ISV-004469	CHGMANDB		Machine	2012-03-22	
BMC Software	BMC AMI Change Manager for Db2	BASE	10	ZAOREP4	ISV-004468	CHGMANDB		Machine	2012-03-22	
BMC Software	BMC Control-D	BASE	7	ZAOREP4	ISV-004433	CONTROL		Machine	2012-03-22	
BMC Software	BMC Control-D	BASE	9	ZAOREP4	ISV-005474	CONTROL		Machine	2012-03-22	
BMC Software	BMC Control-M for z/OS	BASE	7	ZAOREP4	ISV-004436	CONTROL		Machine	2012-03-22	
BMC Software	BMC Control-M for z/OS	BASE	9	ZAOREP4	ISV-005477	CONTROL		Machine	2012-03-22	
BMC Software	BMC Control-M/Analyzer	BASE	7	ZAOREP4	ISV-004438	CONTROL		Machine	2012-03-22	
BMC Software	BMC Control-M/Analyzer	BASE	9	ZAOREP4	ISV-005478	CONTROL		Machine	2012-03-22	

Table 5. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.
SSPID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.

Table 5. Report Columns (continued)

Column Name	Description
License Scope	Refers to License
License Date	Date the license was first acquired.
ELA Date	If the License Scope is Enterprise, then an ELA date is shown.

Products without a License

Report showing products identified that do not have a license.

Products without a License

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	SYSPLEX	SYSTEM	Capacity	MLC	IPLA	SUBCAP
eFunds International Ltd	CONNEX for S/390	BASE	V3	ZAOREP4	ISV-000409	CONNEX	AUPLEX	AU01		133			
eFunds International Ltd	CONNEX for S/390	BASE	V3	ZAOREP4	ISV-000409	CONNEX	AUPLEX	AU02		133			
eFunds International Ltd	CONNEX for S/390	BASE	V3	ZAOREP4	ISV-000409	CONNEX	USPLEX	US01		512			
eFunds International Ltd	CONNEX for S/390	BASE	V3	ZAOREP4	ISV-000409	CONNEX	USPLEX	US02		483			
eFunds International Ltd	CONNEX for S/390	BASE	V3	ZAOREP4	ISV-000409	CONNEX	USPLEX	US03		512			
Broadcom Inc.	CA Advanced Authentication Mainframe	BASE	V2	ZAOREP4		ADAUMF	AUPLEX	AU01		133			
Broadcom Inc.	CA Advanced Authentication Mainframe	BASE	V2	ZAOREP4		ADAUMF	AUPLEX	AU02		133			
Broadcom Inc.	CA ACF2	BASE	V12	ZAOREP4	ACF2..00200	CAACF2	AUPLEX	AU01		133			
Broadcom Inc.	CA ACF2	BASE	V12	ZAOREP4	ACF2..00200	CAACF2	AUPLEX	AU02		133			
Broadcom Inc.	CA ACF2	BASE	V12	ZAOREP4	ACF2..00200	CAACF2	USPLEX	US01		512			
Broadcom Inc.	CA ACF2	BASE	V12	ZAOREP4	ACF2..00200	CAACF2	USPLEX	US02		483			

Another important report. Products identified that do not have a license are a cause for concern and investigation. The reason for this could be that the products have been installed as a bundle, but only some are licensed.

Another cause could be that you are running licensed software without a valid license. Further investigation is needed.

Table 6. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.
SSPID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.
SYSPLEX	The name of the SYSPLEX that the product was discovered on.
SYSTEM	The name of the System/LPAR that the product was discovered on.
Capacity	The MSU Capacity of the License.

Table 6. Report Columns (continued)

Column Name	Description
MLC	For IBM products, if the product is a Monthly License Charge, then a Y is displayed. If not, then a N is displayed.
IPLA	For IBM products if the product is IPLA or more commonly known as One Time Charge, then a Y is displayed. If not, when an N is displayed.
SUBCAP	<p>In this field you will see:</p> <ul style="list-style-type: none"> • Reference based - Applies to z/Architecture IPLA products whose value is based on the value of another product. For example, a reference base Db2® tool would be priced based on the license capacity of Db2®. In this case, Db2® is the parent product of the Db2® tool. reference base IPLA products do not appear on the sub-capacity report because the parent products already appear on the report. • z/OS®-based – Applies to IPLA products that run under z/OS® and provide value to the particular machine where the product is used. These products are priced based on the license capacity of z/OS® on the CPC where the product is used. z/OS®-based IPLA products do not appear on the sub-capacity report because z/OS® already appears on the report. • Execution based - Applies to z/Architecture IPLA products whose value is based on the processing power of the LPAR in which they run. These products are priced based on the utilization capacity of the LPARs in which they run. Execution-based IPLA products appear on the sub-capacity report if those products execute on a CPC where you run the SCRT. • Not eligible or blank <p>These values only apply to IPLA products that have a Y.</p>

Licenses Verified

The **Verified Licenses** reports list the licenses and whether they match the required license information.

Each time you run the License Verification batch job, the previous loaded verification data are kept, and new data are written to the LICENSE_VERIFY table. This allows you to view previously imported data. You can also compare different import dates.

To select the dates to view, select the **Import Date** button for a list of imported dates.

Entitled and Not Used

Vendor	Product	Feature	Version	Repository	PID	SSPIID	EID	SYSPLEX	SYSTEM	Capacity	License Type	MACHINE	License Date	Import Date	Renewal Date	LAST USED	Verified
BMC Software	BMC System Administration for IMS	BASE	2	ZAOREP4	ISV-002232			AUPLEX	AU01	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	BMC System Administration for IMS	BASE	2	ZAOREP4	ISV-002232			AUPLEX	AU02	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	CATALOG MANAGER for DB2	BASE	10	ZAOREP4	ISV-004458			AUPLEX	AU01	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	CATALOG MANAGER for DB2	BASE	10	ZAOREP4	ISV-004458			AUPLEX	AU02	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	CATALOG MANAGER for DB2	BASE	11	ZAOREP4	ISV-004459			AUPLEX	AU01	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	CATALOG MANAGER for DB2	BASE	11	ZAOREP4	ISV-004459			AUPLEX	AU02	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	CHANGE ACCUMULATION PLUS	BASE	1	ZAOREP4	ISV-000059			AUPLEX	AU01	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓
BMC Software	CHANGE ACCUMULATION	BASE	1	ZAOREP4	ISV-000059			AUPLEX	AU02	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29		✓

The **Entitled and Not Used** report displays products that are licensed but are not being used.

Investigate whether these products are still required.

Table 7. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.

Table 7. Report Columns (continued)

Column Name	Description
SSPID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.
SYSPLEX	The name of the SYSPLEX that the product was discovered on.
SYSTEM	The name of the System/LPAR that the product was discovered on.
Capacity	The MSU capacity of the License.
Machine	The Machine the product is licensed on.
License Date	Date the software was licensed.
Import Date	The date that data was verified.
Renewal Date	The date the software is due for renewal.
Last Used	The date the product was last used.
Verified	If the ICON is GREEN, the software is verified correctly. If the ICON is RED, then click on the ICON to see the explanation why the software is not verified.

Entitled and Used

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	SYSPLEX	SYSTEM	Capacity	License Type	MACHINE	License Date	Import Date	Renewal Date	LAST USED	Verify
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617			AUPLEX	AU02	133	LPAR	8561-503	2009-03-29	2023-03-08 13:23:27.0	2023-12-29	2021-03-01	✓
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617			USPLEX	US02	483	Machine	8561-510	2009-03-29	2023-03-08 13:23:27.0	2023-12-29	2021-03-01	✓
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	5	ZAOREP4	ISV-005479			AUPLEX	AU01	133	LPAR	8561-503	2012-03-22	2023-03-08 13:23:27.0	2023-12-29	2021-03-01	✓
BMC Software	CHANGE ACCUMULATION PLUS	BASE	5	ZAOREP4	ISV-005480			AUPLEX	AU02	133	Enterprise	8561-503	2021-07-29	2023-03-08 13:23:27.0	2023-12-29	2021-01-01	✓
IBM	Enterprise COBOL	Enterprise COBOL for z/OS V6	6	ZAOREP4	5655-EC6			AUPLEX	AU01	133	Enterprise	8561-503	2018-02-11	2023-03-08 13:23:27.0	2023-12-29	2021-03-01	✓
IBM	Enterprise COBOL	Enterprise COBOL for z/OS V6	6	ZAOREP4	5655-EC6			AUPLEX	AU02	133	Enterprise	8561-503	2018-02-11	2023-03-08 13:23:27.0	2023-12-29	2021-03-01	✓

The **Entitled and Used** report shows licensed products that are being used. This report needs no further investigation.

Table 8. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.
Repository	The name of the Repository being viewed.
PID	The PID of the product.
SSPID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.
SYSPLEX	The name of the SYSPLEX that the product was discovered on.
SYSTEM	The name of the System/LPAR that the product was discovered on.
Capacity	The MSU capacity of the License.
Machine	The Machine the product is licensed on.
License Date	Date the software was licensed.
Import Date	The date that data was verified.

Table 8. Report Columns (continued)

Column Name	Description
Renewal Date	The date the software is due for renewal.
Last Used	The date the product was last used.
Verified	If the ICON is GREEN, the software is verified correctly. If the ICON is RED, then click on the ICON to see the explanation why the software is not verified.

Not Entitled and Used

Vendor	Product	Feature	Version	Repository	PID	SSPID	EID	SYSLEX	SYSTEM	Capacity	License Type	MACHINE	License Date	Import Date	Renewal Date	LAST USED	Verified
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617			AUPLEX	AU02	133	LPAR	8561-503	2009-03-29	2023-03-03 04:27:47.0	2022-12-29	2021-03-01	✖
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617			AUPLEX	AU02	133	LPAR	8561-503	2009-03-29	2023-03-03 04:28:23.0	2022-12-29	2021-03-01	✖
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617			USPLEX	US02	483	Machine	8561-510	2009-03-29	2023-03-03 04:27:47.0	2022-12-29	2021-03-01	✖
BMC Software	BMC AMI Apptune for Db2	BASE	12	ZAOREP4	ISV-005617			USPLEX	US02	483	Machine	8561-510	2009-03-29	2023-03-03 04:28:23.0	2022-12-29	2021-03-01	✖
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	5	ZAOREP4	ISV-005479			AUPLEX	AU01	133	LPAR	8561-503	2012-03-22	2023-03-03 04:27:47.0	2022-12-29	2021-03-01	✖
BMC Software	BMC AMI Backup and Recovery for IMS	BASE	5	ZAOREP4	ISV-005479			AUPLEX	AU01	133	LPAR	8561-503	2012-03-22	2023-03-03 04:28:23.0	2022-12-29	2021-03-01	✖
BMC Software	BMC AMI Change Manager for Db2	BASE	12	ZAOREP4	ISV-005620			AUPLEX	AU01	133	Machine	8561-503	2012-03-22	2023-03-03 04:27:47.0	2021-03-22	2021-03-01	✖
BMC Software	BMC AMI Change Manager for Db2	BASE	12	ZAOREP4	ISV-005620			AUPLEX	AU01	133	Machine	8561-503	2012-03-22	2023-03-03 04:28:23.0	2021-03-22	2021-03-01	✖
BMC Software	BMC AMI Change Manager	BASE	12	ZAOREP4	ISV-005620			AUPLEX	AU02	133	Machine	8561-503	2012-03-22	2023-03-03 04:27:47.0	2021-03-22	2021-03-01	✖

The **Not Entitled and Used** report shows licensed products that are still being used but have not met the verification criteria. Clicking on the red circle "x" under the **Verified** column displays the reason why the products have not been verified. One reason could be the capacity of the machine or LPAR has changed and does not match the license or the renewal date has passed.

Table 9. Report Columns

Column Name	Description
Vendor	Name of the Vendor.
Product	The Asset name of the product.
Feature	The feature name of the product.
Version	The version of the product.


Table 9. Report Columns (continued)

Column Name	Description
Repository	The name of the Repository being viewed.
PID	The PID of the product.
SSPID	The IBM S&S PID for the product.
EID	The IBM Entitlement ID for the product.
SYSPLEX	The name of the SYSPLEX that the product was discovered on.
SYSTEM	The name of the System/LPAR that the product was discovered on.
Capacity	The MSU capacity of the License.
Machine	The Machine the product is licensed on.
License Date	Date the software was licensed.
Import Date	The date that data was verified.
Renewal Date	The date the software is due for renewal.
Last Used	The date the product was last used.
Verified	If the ICON is GREEN, the software is verified correctly. If the ICON is RED, then click on the ICON to see the explanation why the software is not verified.

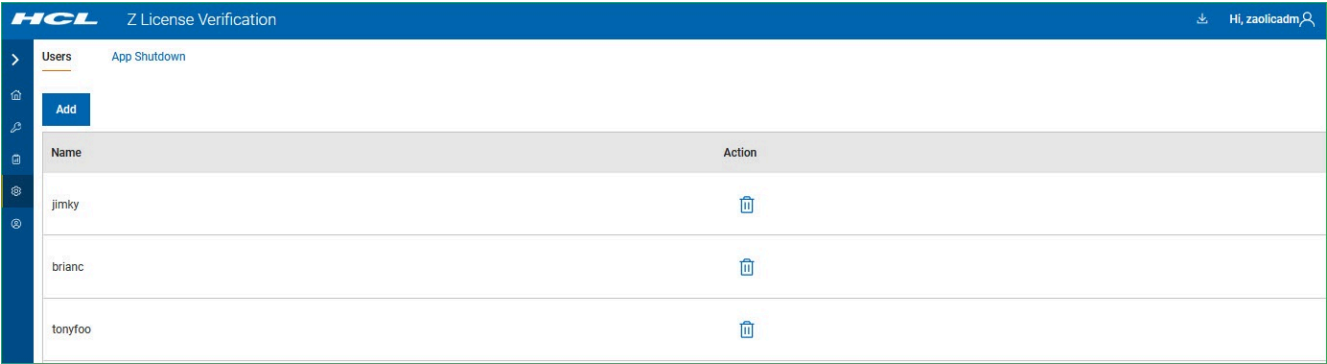
Administration Functions

See App Settings and Profile sections for a description of the administration functions.




App Settings

 **Note:** Only an Administrator will see to the App Settings ICON.

The profile ICON will display the current users defined in ZLV.

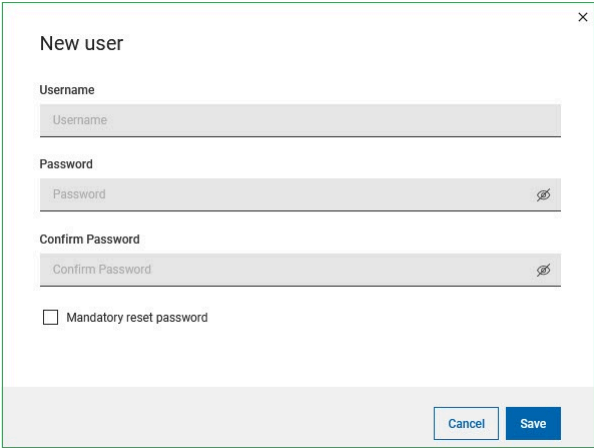


The screenshot shows the 'Users' tab in the 'Z License Verification' application. The interface includes a sidebar with navigation icons and a top bar with the application name and user information. The main content area displays a table of users with columns for 'Name' and 'Action'. There are three users listed: 'jimky', 'brianc', and 'tonyfoo'. Each user has a trash can icon in the 'Action' column. An 'Add' button is located at the top left of the table.

Name	Action
jimky	
brianc	
tonyfoo	

This report shows which users have been defined. Users can be deleted by clicking on the Action icon.


To add a new user, click on the  ICON.



The 'New user' dialog box contains the following fields and options:

- Username:** A text input field with a placeholder 'Username'.
- Password:** A text input field with a placeholder 'Password' and a toggle icon.
- Confirm Password:** A text input field with a placeholder 'Confirm Password' and a toggle icon.
- ☐ **Mandatory reset password**
- Buttons:** 'Cancel' and 'Save' buttons at the bottom right.

This screen allows you to add a new user to ZLV. You can set a password for the user, and if you check the Mandatory reset password check box, when the new user first logs on they will be required to change their password.

 **Note:** Caution: The App Shutdown tab allows the USS started task to be shutdown.

Profile

The Change password dialog is accessed via the Profile.

HCL

Z License Verification

>

Change password

Current password

Current password

New password

New password

Confirm password

Confirm password

Save

Input file layout

This section describes the input file layout required for License Verification.

Table 10. License Verification input file layout

Column Name	Size	Description	Comments
License Key	Integer	License Key	Auto Generated
Site	Char(50)	Example: Central SiteA - Client1	No validation
Machine	Char(10)	"CPU Model" NODE → HW_TYPE, CAP_MODEL TLPAR → FMACHINE Sample: 2964-508	Code checks for presence of Machine
Serial	Char(12)	"CPU Serial Number" NODE→ HW_SERIAL TLPAR → FSERIALNO Sample: F6A27	Code checks for presence of Serial
LPAR	Char(20)	TLAPR FLPARNAME	No validation
License Type	Char(10)	MLC: AWLC=Advanced Workload License Charges AEWLC=Advanced Entry Workload License Charges WLC=Workload License Charges EWLC=Entry Workload License Charges MWLC=Midrange Workload License Charges zNALC=z Systems New Application License Charges MzNALC=Multiplex zNALC zELC=zSeries Entry License Charges CMLC=Country Multiplex License Charges PSLC=Parallel Sysplex License Charges ULC=Usage License Charges OTC: IPLA=International Program License Agreement	No validation

Table 10. License Verification input file layout (continued)

Column Name	Size	Description	Comments
License Scope	Char(10)	Enterprise, Site, Machine, LPAR	No Validation
License Date	Date	YYYY-MM-DD format only	No Validation
License Renewal Date	Date	YYYY-MM-DD format only	No Validation
ELA Start Date	Date	YYYY-MM-DD format only	No Validation
ELA End Date	Date	YYYY-MM-DD format only	No Validation
Vendor	Char(80)	PRODUCT→VENDOR_NAME TVENDOR→FVENDORNAME	Code checks for presence of Vendor
Product	Char(50)	PRODUCT→ALT_PRODUCT_NAME	Code checks for presence of Product
Feature	Char(80)	PRODUCT→FEATURE_NAME	Code checks for presence of Feature
Version	Integer	PRODUCT→VERSION	Code checks for presence of Version
PID	Char(16)	PRODUCT→PID	Code checks for presence of PID
S&S PID	Char(16)	PRODUCT→SSPID	No Validation
EID PID	Char(16)	PRODUCT→EIDPID	No Validation
Capacity Unit	Char(10)	MSU, VU, MIPS, SUB, GROUP	No Validation
Quantity	Integer	Null or integer	No validation
INITIAL_PRICE	Char(80)	Initial price	Future use
MAINT_PRICE	Char(80)	Maintenance price	Future use
VEND_CONT_NAME	Char(50)	Vendor Contact Name	
VEND_CONT_TITLE	Char(50)	Vendor Contact Title	
VEND_CONT_PHONE	Char(25)	Vendor Contact Phone	
VEND_CONT_EMAIL	Char(50)	Vendor Contact Email	
OWNER_CONT_NAME	Char(50)	Owner Name	
OWNER_CONT_TITLE	Char(50)	Owner Title	
OWNER_CONT_DEPT	Char(50)	Owner Department	

Table 10. License Verification input file layout (continued)

Column Name	Size	Description	Comments
OWNER_CONT_PHONE	Char(25)	Owner Phone	
OWNER_CONT_EMAIL	Char(50)	Owner Email	
LICENSE_SERIAL	Char(255)		Future use

Appendix E. Appendix

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March 2023

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