



Infor Cloverleaf Integration Services Resolved Issues

Release 2022.09

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About this CIS guide

This document lists the resolved issues for Infor Cloverleaf Integration Services.

Related documents

To access the documentation for this release, go to docs.infor.com and select the link for your CloudSuite.

Updated Java version information

JRE versions for Windows, Linux, and AIX:

Windows

- openjdk version "1.8.0_202"
- OpenJDK Runtime Environment Corretto-8.202.08.2 (build 1.8.0_202-b08)
- OpenJDK 64-Bit Server VM Corretto-8.202.08.2 (build 25.202-b08, mixed mode)

Linux

- openjdk version "1.8.0_202"
- OpenJDK Runtime Environment Corretto-8.202.08.2 (build 1.8.0_202-b08)
- OpenJDK 64-Bit Server VM Corretto-8.202.08.2 (build 25.202-b08, mixed mode)

AIX

- Java version "1.8.0_171"
- Java(TM) SE Runtime Environment (build 8.0.5.17 - pap3280sr5fp17-20180627_01(SR5 FP17))
- IBM J9 VM (build 2.9, JRE 1.8.0 AIX ppc-32-Bit 20180626_390413 (JIT enabled, AOT enabled)
- OpenJ9 - 5cdc604
- OMR - a24bc01
- IBM - 21870d6)

- JCL - 20180619_01 based on Oracle jdk8u171-b11

Contacting Infor

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If you have comments about Infor documentation, contact documentation@infor.com.

Chapter 1: Product versions

This section lists the versions of the base products for this CloudSuite.

For descriptions of these products and supported integrations, see the solution overview document for this CloudSuite.

For details about the new functionality in each product version, see the corresponding release notes for each product:

- To access the resolved issues from the Infor Support Portal or Concierge, select your CloudSuite, and browse the documentation in the Product Release Notes category.
- To access the resolved issues notes from docs.infor.com, select your CloudSuite, and click the Overview, Release, and Technical Information link.

Chapter 2: Notes and known issues

Listed are the notes and known issues for Infor Cloverleaf Integration Services version 2022.09.

Error database search does not support HL7 messages with different separators (CISCL-5455)

If the Error database has HL7 messages that have different separators, then some messages cannot be queried.

This is a known issue of SMAT database and Error database searching for HL7, HPRIM, and HL7+HPRIM.

The searching interface takes the first message field separators as a group and makes that the criterion. This is applied to all searched messages. If there is a different message field separator group with this criterion in the database, then those messages are missed in the query.

To work around this issue, use a regular expression to search.

Unable to use encoding option for javadriver after implementation of binary support (CISCL-5808)

This is a legacy issue that was exposed after adding java driver binary support.

Messages sent into the engine by Java Driver java code are one of these types:

- UTF-8.
- Same as the engine internal representation.
- Raw binary stream, known only to the user.

To get around this, the engine encoding setting was bypassed.

However, the `hcicmd` interface does not allow the encoding option when the protocol encoding is bypassed. This is no longer required.

You can select the input encoding with the command, for example, `resend`, as a protocol with bypass encoding. This does not indicate the inbound message cannot be UTF-8 encoding. You can select the encoding method..

This command still functions without the encoding option. However, the input must be the same encoding that is fed into the engine in normal flows. The input file must be UTF-8 text files or binary files.

Error when saving large xlate file for AIX (CISCL-6400)

An exception happens when attempting to save a large xlate file on AIX. It takes too long and the connection resets.

This happens because of a heap size configuration issue on the AIX 32-bit JRE.

This is a known limitation on the AIX platform.

Old box included DB Table could not be imported (CISCL-8436)

This issue happens on all platforms.

Note: This example is based on a BOX file that contains the known issue. In this example, the BOX file contains a database connection name that does not match the name in `dbconfiguration.ini`. This issue can also happen when the old BOX contains a database table but there is no `dbschema`.

Example:

- 1 Download the BOX.
- 2 Ensure the current machine has a Chinese locale.
- 3 Launch the IDE and open BOX Manager.
- 4 Import the downloaded BOX.

Expected result:

The BOX is imported. A warning dialog box opens if the related validation is not BOXed.

Actual result:

The import fails, and an exception opens, stating:

An error occurred while loading BOX resource configuration.

This is a known issue.

Ming.le log-in dialog box cannot be opened on Mac (CISCL-8307)

The Ming.le log-in dialog box cannot be opened on Mac. Instead, a warning is logged on the client side log file.

***WARNING: Display must be created on main thread due to Cocoa restriction.
Use vmarg -XstartOnFirstThread

Chapter 3: Resolved issues

Listed are the resolved issues for Infor Cloverleaf Integration Services version 2022.09.

"Database Schema" message format incorrectly handled in method used by Global Monitor (CISCL-7380)

The `SmatConfiguration.getFormatOptions()` method is called by Global Monitor to get the encode format settings.

The CIS IDE and GM handle the `smatdb` message format configuration differently.

In CIS, while FRL, HRL, XML, and other formats are handled correctly, there is no special handling for "Database Schema".

The CIS IDE does not call this method when message searching, while GM does.

This causes message searching failure in Global Monitor when the `smatdb` message format is "Database Schema".

This issue no longer happens.

Reloading objects with Java UPoC during message processing causes thread to stop processing (CISCL-6296)

When a thread is processing messages that goes through Java UPoC, the thread stops processing messages when reloading site objects.

This issue no longer happens.

Misspelling in Database GUI (CISCL-6705)

An error happens when creating a new database connection for SQLite from the **Site Preferences** dialog box. This action accesses `database.ini`, where "database" is misspelled as "databse".

For example:

```
[sqlite]
url_format=jdbc:sqlite:<database file name>
```

This issue no longer happens.

Breakpoints set to addresses containing a variable cause an error in Xlate Debugger (CISCL-6823)

An error happens when a breakpoint is set to an address that contains a variable. For example:

```
Error resolving address 1(0).1(0).1(0).0(%g3).IN1(0)
```

This issue no longer happens.

CLAPI that retrieves translation file content cannot get the correct information for Lookup table, DATECOPYOPT, and IF actions (CISCL-606)

The translation file has different actions. CLAPI has the GET and POST methods to support to reading and writing to the translation file.

However, the CLAPI that reads the translation file cannot correctly get the translation actions TABLE, DATECOPYOPT, and IF. Instead, for the TABLE action, CLAPI returns the STRING action. There is no configuration information for DATECOPYOPT action and no statement information for the IF action.

The translation file is now read and written using the GET/POST `/api/site/{siteName}/xlt/{fileName}` API.

- The TABLE action`s configuration is "TABLE".
- DATECOPYOPT displays "DATECOPYOPT".
- IF action includes "condition".

CLAPI LDAP should not return password in response (CISCL-7929)

When returning the result of `GET /{apiVersion}/api/admin/serveradmin/getldap`, the manager password was marked as plain text.

This issue no longer happens. The manager password is now marked as "*****".

Role information updated when adding LDAP user to security server (CISCL-7970)

This applies to advanced security.

When an LDAP user logs in to the security server for the first time, the user's role is automatically updated if it has already been imported or added to the ACL Role Manager.

Users can only define the role permission. Users can then access the IDE without any additional changes on the ACL Role Manager.

Incorrect "read-only" display in IDE status bar (CISCL-7956)

An issue can happen when opening Network Configurator.

For example, there are two host servers with their own sites. Each server has a different setting for `open_tools_read_only` in the `server.ini` file.

- 1 On the CIS IDE, select **Server > Change**. This opens the **Select an Infor Cloverleaf(R) Integration Services Server and Environment**.
- 2 On the dialog box, select "Select the host on which to contact the Server".
- 3 To switch from one environment to another, select a site and open the **Network Configurator** for the first site. Check if "read-only" is on the status bar.
- 4 Change to another site on the same host server and open **Network Configurator** again.
- 5 Check if "read-only" is on the status bar.

Expected result:

For different sites on the same host server, the "read only" status should be the same.

Actual result:

For different sites on the same host server, the "read only" status should be is not the same.

This issue no longer happens.

Non-functioning CLAPI Post API for NetConfig with TrxID as UPOC (CISCL-7984)

Example:

- 1 on the CIS IDE **Inbound** tab, create a thread with UPoC as the Trx ID Determination format..
- 2 Get the JSON type data of Network Configurator using the CLAPI swagger UI, using:

```
GET /{apiVersion}/api/site/{siteName}/netconfig/{netconfigName}
```

- 3 Post the data from Step 2, using:

```
POST /{apiVersion}/api/site/{siteName}/netconfig/{netconfigName}
```

Expected result

There is no error and Network Configurator is correctly updated.

Actual result

A "400" error is returned, when loading the Network Configurator data from JSON. The language is not parsed before retrieving the procedure configuration.

This issue no longer happens.

RCE vulnerability on command line (CISCL-7866)

Some command-line commands were found to have RCE (Remote code execution) vulnerability.

Examples:

- `hcisitectl -h '$(bash echo "test")'`
- `hcienginestop -p '$(bash echo "test")'`
- `hciengineerun`

The arguments are executed as a command line.

This issue no longer happens:

The remote host `-h` option has been deleted for `hcisitectl`, `hciengineerun`, `hcienginestop`, and `hcienginerestart`.

The `-p` parameter(s) are now verified and defined in NetConfig.

The parameter options are sorted in alphabetical order.

"Unsupported option encodeformat" error encountered when running "hcisecurityaudit.exe -t HCIRoot" on Windows (CISCL-7848)

On Windows, an "Unsupported option encodeformat" error is encountered when running `hcisecurityaudit.exe -t HCIRoot`.

This issue no longer happens.

SSAPI: Spring Framework upgraded to 5.3.20 or later version for vulnerabilities in uploading file (CISCL-8057)

In Spring Framework versions before 5.3.20, and older unsupported versions, applications that handled file uploads were vulnerable to DoS attack.

Spring Framework has been upgraded to version 5.3.22 for vulnerabilities in uploading files, although SSAPI does not have functionality for uploading files.

Spring Boot has been updated to version 2.7.2.

CLWizard: Input and output format are not displayed on Summary page of route Wizard (CISCL-7841)

On the CLWizard, the input and output formats are not displayed on the **Summary** page of the route wizard when there is no previous load.

On CLWizard, routes are created on the route creation wizard. The last wizard page is a summary that displays the route setting. However, the input and output formats do not display the previously configured setting.

When the corresponding xlate file is already displayed on the route detail, it works as intended.

This issue no longer happens.

Error logs should not go into "notification.log" log file (CISCL-6750)

Example:

- 1 Stop the CIS services.
- 2 Add a nonexistent site to the `environs` key under the `exports` section of `server.ini`.
- 3 Start the CIS services.
- 4 Start the Global Monitor service.
- 5 After several minutes, check the error log.

There is now an "Unable to read ini Environ:" message in the log. This error message should not be going into `notification.log`. These error messages going into this file would increase the file size exponentially over time.

This error no longer happens. These error logs now go into `stdout/stderr`.

Sort order updated on Volume/Depth columns in Network Monitor List View (CISCL-5866)

On the Network Monitor **List** tab, the sorting of the Volume and Depth columns are alphanumeric. This is incorrect.

This issue no longer happen. The sorting of the Volume/Depth columns has been updated from alphanumeric to numeric.

Network Monitor: Thread restart issues "pstart", not "prestart" (CISCL-7565)

Example:

- 1 On the Network Monitor, select a thread.
- 2 Right-click the thread and select **Control > Restart**.
This runs the command `hcicmd -p <process> -c "in pstart"`.
This command is incorrect.

This issue no longer happens. When a thread is right-clicked and **Control > Restart** is selected, the correct command is `hcicmd -p <process> "in prestart 30"`.

CLAPI: "samlEntityBaseUrl" should not end with forward slash (CISCL-7917)

samlEntityBaseUrl should not end with forward slash. When there is a forward slash at the end, the saml-security filter composes an incorrect URL.

For example, `https://cis-cchchdevstqausel.cch-infor.com/clapi//saml/SSO`. The two forward slashes before "saml/SSO" causes a request failure.

The `/sp/metadata` API refreshes this key-value, but ends it with the forward slash.

This issue no longer happens.

CLAPI: content field does not function in "/api/root/site/{siteName}/uploadfile" (CISCL-7082)

In CLAPI, the content field does not function in `/api/root/site/{siteName}/uploadfile`.

This issue no longer happens.

Buttons on BOX edit/deploy wizard do not display fully (CISCL-6523)

On the CLWizard **BOX** edit/deploy wizard, when the vertical scroll bar appears, the buttons do not display correctly. This also happens after clicking some buttons.

This issue no longer happens.

Reloading objects in GUI should not default to all sites (CISCL-743)

The **Reload Objects** function should not default to all sites.

The executed command line is `hcireloadobjects -s <site>`. When the command is used without any parameters, the default is the current site.

The **Reload Objects** option now only reloads the current site objects.

Missing site global variable password key after deployment or new site creation from BOX (CISCL-7084)

The new site global variable password key is missing after deploying/creating a new site from a BOX that includes a site masked global variable.

This issue no longer happens. The cache is used instead of creating a new instance when deploying global variables into site context.

Unable to add Global Variable into BOX with remote connection to UNIX server from Windows client (CISCL-8133)

Global Variables cannot be added to a BOX when the remote connection to the UNIX server is from a Windows client.

Instead, a No available data in Global Variants message opens in Windows.

This happens only from a Windows client connection to a Windows server. This is not an issue on a Linux server.

This issue no longer happens.

CAA-WS GUI wizard dialog box incorrectly sets cursor for all components (CISCL-8093)

The CAA-WS wizard incorrectly sets the cursor for all components.

For example, the text field does not display the correct cursor when pausing the mouse over a field.

This issue no longer happens.

CLAPI Swagger user interface performance degrades after calling "/api/system" services API using Swagger (CISCL-8119)

In the CLAPI Swagger user interface, when `/api/system/services` is invoked, the feedback is returned after a long period of time. When the feedback is returned, the Swagger user interface is slow.

When an API URL is clicked to expand it, there is no response from the system.

This issue no longer happens.

On the Swagger page, syntax highlighting of payloads and the `cURL` command are disabled. This avoids the "Large response bodies cause hanging" issue on the Swagger user interface 3.

Port should not be "-1" when port number is unspecified in address option (CISCL-7396)

If the port number is not specified during setting an **Address**, for example, `http://localhost/serverpath` or `https://localhost/tls/serverpath`, then the port is set to `port=-1`.

This is outside the port range.

This issue no longer happens. If the port number is not specified when setting **Address**, then a port is automatically assigned. For HTTP, "80" is assigned. For HTTPS, "443" is assigned.

CLAPI encounters "Vulnerable JS Library" (CISCL-6594)

Because CLAPI encounters a "Vulnerable JS Library" error, the Swagger user interface style has been reverted to the Swagger built-in user interface.

The SDK and SDK sample pages that rely Swagger-Client have been removed due to the old swagger-client version and Swagger version 2.

Springfox has been migrated to Springdoc.

Some APIs cannot be accessed without version (CISCL-7923)

Some APIs cannot be accessed without an API version. This happens because it always gives the most recently supported CLAPI version number.

However, some APIs might be deprecated on this CLAPI version.

This issue no longer happens. Now, all requests without an API version are accepted and respond correctly. The latest API is automatically matched to the specific API.

Route Testing tool using UNNAMED_TID for ProcessName and ThreadName blocks Java Driver and Java UPoC (CISCL-7463)

A leak can happen when a user has `ProcessName` in their Java UPoC.

For example, in the Testing tool, a test process name is `UNNAMED_PID`, although the thread name is `UNNAMED_TID`. The process name is `TEST_P`, although thread name is `TEST`.

These instances do not block the testing.

This issue no longer happens.

Stored procedure “resultset” number should be restricted by the max number setting (CISCL-7875)

The **Maximum row number of query results** option only applies to a SQL statement, not on a stored procedure.

In the log file, there is a `Expected <100> message(s), but got <110> message(s)` warning for the stored procedure.

The executing stored procedure returns the actual message numbers regardless of this limitation.

This issue no longer happens.

Updated "Instant Search" Note feature (CISCL-7885)

The instant search note feature has been updated to "Selecting this option can cause performance issues, as each key press triggers the search".

Advanced scheduling has an endless loop for month option without "DaysOfMonth" setting (CISCL-6756)

For example, a user sets a cron time that specifies the month field as "`* * * * 2 *`" before the current time.

Note: "`* * * * 2 *`" indicates "At every seconds in February".

The code logic misses that the "DaysOfMonth" is not set (`* is 0`). In this situation, the `AddAYear` function does not run. This creates an endless loop.

This issue no longer happens.

SSAPI hits Vulnerable JS Library (CISCL-6972)

The Security Server API encounters a "Vulnerable JS Library" issue.

This issue no longer happens.

The Swagger user interface style has been updated to Swagger Native Style.

MLLP thread template has disabled proc (CISCL-6631)

Creating a new thread using the `hci_HL7_MLLP_TCP_outbound_validation` template disables the TPS Inbound Reply procedure. `cl_check_ack proc` must be manually enabled for the thread to work correctly.

This issue no longer happens.

The `PROCESSCONTROL` key has been added with an enabled value in the NetConfig MLLP thread template

CLAPI to get translation file content cannot get correct information for “lookup table”, “datecopyopt”, and “if” actions (CISCL-606)

The translation file has different actions. CLAPI has the GET and POST methods to support reading and writing the translation file.

However, the CLAPI to read the translation file cannot correctly get the translation actions `table`, `datecopyopt` and `if`. Instead, a `STRING` action is returned for a table action.

There is no configuration information for the `datecopyopt` action and no statement information for the `if` action.

This issue no longer happens.

The translation file is now read and written using the `GET/POST /api/site/{siteName}/xlt/{fileName}` API. The `TABLE` action configuration is `TABLE`. `DATECOPYOPT` displays the `timeDelimiter`. The `IF` action also includes `condition`.

The data type 'text' of PostgreSQL is not convert via DB schema (CISCL-8237)

SQLServer and PostgreSQL do not have CLOB and BLOB data types. This form illustrates the mapping relationship with Oracle and SQLite.

Oracle/SQLite	SQLServer	PostgreSQL
CLOB	VARCHAR(MAX)	TEXT
BLOB	VARBINARY(MAX)	BYTEA

For SQLServer or PostgreSQL CLOB data type, if customer doesn't config a db schema in database inbound protocol, it will be treated as "String".

For SQLServer or PostgreSQL BLOB data type, db protocol deals it the same way with Oracle, no matter what's the db schema (if exist) configuration.