



## **MyID Enterprise**

**Version 12.9**

# **System Interrogation Utility**

Lutterworth Hall, St Mary's Road, Lutterworth, Leicestershire, LE17 4PS, UK  
[www.intercede.com](http://www.intercede.com) | [info@intercede.com](mailto:info@intercede.com) | [@intercedemyid](https://twitter.com/intercedemyid) | +44 (0)1455 558111

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## Conventions used in this document

- Lists:
  - Numbered lists are used to show the steps involved in completing a task when the order is important.
  - Bulleted lists are used when the order is unimportant or to show alternatives.
- **Bold** is used for menu items and for labels.

For example:

  - Record a valid email address in '**From**' email address.
  - Select **Save** from the **File** menu.
- *Italic* is used for emphasis:

For example:

  - Copy the file *before* starting the installation.
  - Do *not* remove the files before you have backed them up.
- ***Bold and italic*** hyperlinks are used to identify the titles of other documents.

For example: "See the ***Release Notes*** for further information."

Unless otherwise explicitly stated, all referenced documentation is available on the product installation media.
- A `fixed width` font is used where the identification of spaces is important, including filenames, example SQL queries and any entries made directly into configuration files or the database.
- **Notes** are used to provide further information, including any prerequisites or configuration additional to the standard specifications.

For example:

**Note:** This issue only occurs if updating from a previous version.
- Warnings are used to indicate where failure to follow a particular instruction may result in either loss of data or the need to manually configure elements of the system.

For example:

**Warning:** You must take a backup of your database before making any changes to it.

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## 1 Introduction

This document contains information on the MyID System Interrogation Utility (SIU) for MyID®.

The SIU is a support tool for determining whether the prerequisites stated in the MyID *Installation and Configuration Guide* have been satisfied.

**Important:** You can run the SIU independently, but its tests are also incorporated into the MyID Installation Assistant, which runs the appropriate tests at the relevant points of the installation process. The MyID Installation Assistant provides a simpler and more user-friendly way to run the SIU tests. This document describes running the SIU independently; for information on running the tests as part of the MyID Installation Assistant, see the *MyID Installation Assistant* section in the *Installation and Configuration Guide*.

The SIU files are provided in the following folder in the MyID installation package:

```
\Support Tools\MyIDInstallationAssistant\SIU\
```

**Note:** Running the SIU tests does not eliminate the need to consult the core product documentation provided with MyID.

The SIU performs a series of automated tests on the hardware, software, and configuration of the computers of a MyID installation. You are recommended to run the utility both before and after the installation of MyID to verify the following:

- That MyID can be installed on the computers.
- The computers have been configured correctly for use with MyID.
- The upgrade path from MyID 10.x to the current version.

The SIU supports the following system configurations:

- Single-tier and split-tier environments; for example:
  - All tiers (web, application, database) on a single server.
  - Web and application on a common server, with database on a separate server.
  - Web, application, and database, all on separate servers.
- Local testing on a single computer.
- Testing multiple MyID computers on a single domain simultaneously.
- Multiple instances of MyID clients, web servers, application servers, databases and domain controllers, on a single domain.

The SIU is provided in a highly configurable and extensible form as a PowerShell module. You can use it interactively or non-interactively, using a human-readable configuration file (examples are included). For local testing, you must edit the configuration file on each computer separately. For remote testing, you must edit the configuration file only on one master MyID computer on the domain; this computer is used to run all the tests remotely.

Test results are exported into verbose and redacted HTML 5 reports. The results include a reference to the appropriate section of the core product documentation, so that you can rectify any failures easily.

**Note:** This version of SIU is compatible with the current version of MyID. The SIU will be released with each recent version of MyID, so that it matches the prerequisites in the core product documentation for that version.

For prerequisites and details of installing the SIU, see the readme provided with the SIU release.

## 2 Running the SIU

**Note:** If you are running the SIU through remote access, you must make sure that port 5985 is open. The function `Test-RemoteComputersPort` tests that port 5985 is open; if it is not, it reports `Ping to $computer on port 5985 failed`.

To run the SIU, from each of the computers under test (local testing only), or from the master computer under test (remote testing only):

1. From the `Scripts` subfolder, start the `Start-SIUInteractively.bat` batch file. If prompted, either click **Yes** at the User Account Control prompt or enter your credentials to start the SIU.

A form appears that displays the contents of the `SIU-Config.txt` configuration file, if it already exists.

2. If the form is blank, click one of the buttons to load an example configuration file:
  - **Client Local Example** – As **Split Tier Local Example** below, but including a **client** computer.
  - **Single Tier Local Example** – For single-tier MyID installation, run locally on a single computer.
  - **Split Tier Local Example** – For split-tier MyID installation, this instance of SIU will run locally on this computer only, with test coverage of this tier only. Other instances of SIU on the other tiers are needed to achieve full coverage.
  - **Split Tier Remote Example** – For split-tier MyID installation, this instance of SIU will run remotely on multiple computers simultaneously, for full test coverage. You must enter the correct administrative credentials for the SIU to use on all computers or each tier when prompted. You must also have installed SIU on each computer with

support for SIU remote mode; see the installation instructions in the readme provided with the SIU release for details.

3. Edit the form as required (tooltips are available on the form).

Mandatory fields on the form are indicated with an asterisk. The App Servers and Main DB fields are also mandatory if MyID is installed.

**Note:** Blank fields on the form will cause the test coverage to be reduced significantly.

The form performs no data validation, so any errors will be indicated after starting.

4. Set the **Operating Mode** options:

- **Mode** – select one of the following:
  - **Local** – all tests are run on the same local PC.
  - **RemoteWithSameCredentials** – tests are run on the appropriate PC, all using the same user credentials. You provide the credentials when you select **Start**.
  - **RemoteWithDifferentCredentials** – tests are run on the appropriate PC, all using different user credentials. You provide the credentials when you select **Start**.
- **Run As** – select one of the following:
  - **Installation User** – all tests are run as the MyID installation user.
  - **Installation User/MyID COM Plus User** – all tests are run as the MyID installation user, except test 259 (**Get BOL status**).

5. Set the **Computers** options:

- **Clients** – provide the hostname or IP address for each client PC you want to use with MyID.
- **Web Servers** – provide the hostname or IP address for each web server PC you want to use with MyID.
- **App Servers** – provide the hostname or IP address for each application server PC you want to use with MyID.
- **Databases** – provide the hostname or IP address for each database server you want to use with MyID.
- **Domain Controllers** – provide the hostname or IP address for each domain controller you want to use with MyID.

6. Set the **Users** options:

- **MyID COM Plus User** – select the username for the MyID COM+ user. This account is used to run the MyID components.
- **IIS User** – select the username for the MyID IIS user. This account is used to run the MyID website.
- **Web Service User** – select the username for the MyID web services user. This account is used to run the MyID web services.



- **Authentication WS User** – select the username for the MyID authentication user. This account is used to access the authentication database and access the authentication web service.
7. Set the **SQL Settings** options:
    - **DB Type and Auth** – select one of the following:
      - **None** – if no database is used.
      - **SQL Server with Windows Auth (Mutual)** – select this option if you are using SQL Server with Windows authentication for the MyID database.
      - **SQL Azure with SQL Server Auth (NoAuth)** – select this option if you are using Microsoft Azure with SQL Server authentication for the MyID database. See the [Microsoft Azure Integration Guide](#) for details.
    - **Main DB** – provide the name of the main MyID database; by default, this is `MyID`.
    - **Auth DB** – provide the name of the MyID authentication database; by default, this is `MyIDAuth`.
    - **Archive DB** – provide the name of the archive MyID database; by default, this is `MyID_Archive`.
  8. Set the **IIS Settings** options:
    - **IIS Protocol** – select one of the following:
      - **HTTP** – use HTTP for the connection to the MyID web server.
      - **HTTPS** – use HTTPS for the connection to the MyID web server.
      - **HTTPS + HTTP** – use both HTTP and HTTPS for the connection to the MyID web server.
    - **IIS Website** – select the name of the website that hosts the MyID website. By default, this is **Default Web Site**.
  9. Set the **Output** options:
    - **Execute Test IDs** – to override the list of tests to be run, provide a comma-separated list of test IDs to be executed. Use leading zeroes to pad the test IDs to three digits. You can include ranges in this list. For example:  
`001-003, 005, 010-142`
    - **Customer Name** – type your organization name.
    - **Environment Type** – select one of the following:
      - **PreProduction** – for pre-production environments.
      - **Production** – for production environments.
    - **Hide Unimportant Results** – omits tests that cannot be run, or cannot be tested, from the results.
  10. The **Environment** options are automatically populated when you run the utility.

11. Select **Start**.

This saves the `SIU-Config.txt` configuration file.

12. If you are testing remotely, you must enter the correct administrative credentials for the SIU to use on all computers or each tier when prompted. You must also have installed SIU on each computer with support for SIU remote mode; see the installation instructions in the readme provided with the SIU release for details.

13. Wait for the verbose and redacted HTML 5 reports to be exported and displayed in the default browser.

- If you are prompted that Microsoft Edge cannot be started as an administrator, select Close and it will open in Internet Explorer instead.
- If you are prompted for an application to open HTML files, select Internet Explorer.
- If you are prompted to set up Internet Explorer, select the Use recommended security and compatibility settings option.

14. Resolve any failures or warnings, then run the SIU again until they are all resolved.

15. Install MyID on all computers, following the instructions in the core product documentation, then run the SIU again.

16. Resolve any failures or warnings, then run the SIU again until they are all resolved.

Alternatively, you can edit the `SIU-Config.txt` configuration file directly, based on one of the supplied example files, then use the `Start-SIUNonInteractively.bat` batch file instead.

**Note:** The `SIU-Config.txt` configuration file is not present on a fresh install – you are recommended to copy one of the example files from the `SIUExample` folder into the same folder as the `Start-SIUNonInteractively.bat` file, and rename it `SIU-Config.txt`.

You can specify non-standard ports for SQL Server and IIS – see section 5, [Configuration file format](#) for details.

The verbose and redacted HTML 5 reports are saved in the `TestReports` subfolder, in files with names in the following formats:

```
Intercede SIU Verbose Report yyyyMMddTHHmssZ.html
```

```
Intercede SIU Redacted Report yyyyMMddTHHmssZ.html
```

Test data reports that you can use for offline analysis are also saved as comma-separated values in the `TestData` sub-folder, in files with names in the following formats:

```
Intercede SIU Test Statistics yyyyMMddTHHmssZ.csv
```

```
Intercede SIU Test Configuration yyyyMMddTHHmssZ.csv
```

```
Intercede SIU Test Results yyyyMMddTHHmssZ.csv
```

## 2.1 Interpreting the results

The verbose HTML 5 report generated by the SIU includes sections for statistics, test configuration, and test results for each computer under test.

**Note:** The verbose HTML 5 report may contain customer-sensitive information and should not be sent by email to Intercede. It can be uploaded only using one of the following secured connections:

- SFTP using an FTP client (for example, Filezilla):

```
sftp://share.intercede.com port 22.
```

- FTPS using an FTP client (for example, Filezilla):

```
ftps://share.intercede.com port 990.
```

Contact Intercede customer support ([support@intercede.com](mailto:support@intercede.com)) if you need a reminder of your credentials.

The redacted HTML 5 report is similar, but the following information is excluded:

- Test configuration
- All expected test results
- All actual test results
- All literal parameters to test cases
- All IP addresses
- All usernames of service accounts
- Description of the test case

Each row of test results is a test case. This includes a unique test identifier (ID), a reference to core product documentation, the tier(s) that the test case will execute on and condition (whether MyID must be installed or uninstalled), the test function that was executed, the expected value, the actual value and the outcome. Hover the mouse over each row to obtain a description of the test case in a popup.

The expected value will contain one of the following symbols:

- == (Equals)
- > (Greater than or equals)
- =~ (Match)

- !~ (Not match)
- n (Contains)

The outcome will be one of the following:

- Pass (green), if the expected result has been satisfied.
- Fail (red), if the expected result has not been satisfied and this affects functionality.
- Warning (orange), if the expected result has not been satisfied and this does not affect functionality; for example, an issue that may impact performance, the configuration is untested and unknown by Intercede, or to bring attention to something unusual requiring further checks.
- Not Applicable (light yellow), if it is informational with no expected result; for example, date formats.
- Can't Test (gray), if the test case cannot be performed; for example, missing configuration information or PowerShell cmdlets used by test cases are not supported by the operating system.
- Not Run (gray), if the test case is not applicable to the tier of the computer under test.
- Exception (blue), if the SIU has generated an internal error.

You must check any test failures or warnings against the core product documentation for resolution.

## 2.2 Upgrading from earlier versions of MyID 10 to the current version

You can also use this version of SIU to check the upgrade path from MyID 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, or 10.8 to the current version of MyID.

All references in the reports to the appropriate section of the core product documentation apply to the current version of the documentation.

### 3 Description of the installation and uninstallation process

The installer performs the following, which is reverted completely when you uninstall the utility:

1. Sets the PowerShell environment variable `SIUPath` to the SIU `Scripts` subfolder and appends this to the `PSModulePath` environment variable.
2. When run with local or domain administrative privileges, prompts whether the installer should configure the computer to support SIU remote mode.

**Warning:** Installing SIU in remote mode may expose your system to potential vulnerabilities.

Installing the SIU in remote mode performs the following additional steps:

- a. Changes the PowerShell execution policy for the local machine to `RemoteSigned`. This is the default execution policy for Windows server computers. Scripts must be signed by a trusted certificate.

See [docs.microsoft.com/en-us/powershell/module/microsoft.powershell.security/set-executionpolicy?view=powershell-7.1](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.security/set-executionpolicy?view=powershell-7.1) for details.

- b. Creates registry keys and properties for credential delegation. Provides an exportable version of credentials to the remote host.

**Warning:** This exposes users to the risk of credential theft from attackers on the remote host.

See [docs.microsoft.com/en-us/windows/client-management/mdm/policy-csp-credentialsdelegation](https://docs.microsoft.com/en-us/windows/client-management/mdm/policy-csp-credentialsdelegation) for details

Allows delegating fresh credentials with NTLM-only server authentication. See [docs.microsoft.com/en-us/windows/client-management/mdm/policy-csp-admx-credssp#admx-credssp-allowfreshcredentialswhenntlmonly](https://docs.microsoft.com/en-us/windows/client-management/mdm/policy-csp-admx-credssp#admx-credssp-allowfreshcredentialswhenntlmonly) for details.

- c. Enables PowerShell remoting. Configures the server to receive remote PowerShell commands. The parameter enables a firewall rule for public networks that allows remote access only from computers in the same local subnet. See [docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/enable-psremoting?view=powershell-7.1](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/enable-psremoting?view=powershell-7.1) for details.
- d. Enables Credential Security Support Provider (CredSSP) authentication as server to receive credentials from a remote client computer.

**Warning:** This practice increases the security risk of the remote operation. If the remote computer is compromised, when credentials are passed to it, the credentials can be used to control the network session.

See [docs.microsoft.com/en-us/powershell/module/microsoft.wsman.management/enable-wsmancredssp?view=powershell-7.1](https://docs.microsoft.com/en-us/powershell/module/microsoft.wsman.management/enable-wsmancredssp?view=powershell-7.1) for details.

- e. Appends the domain to the trusted hosts file.

Other computers within the same domain are treated as trusted hosts, which implies they can perform a remote log in session.

See [docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/about/about\\_remote\\_troubleshooting?view=powershell-7.1](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/about/about_remote_troubleshooting?view=powershell-7.1) for details.

Installing the SIU in local mode does not carry out any of the above configuration.

Installation and uninstallation are fully logged in the `SIU-Installation.log` file.

## 4 Troubleshooting

If the SIU returns an exception, unusual results, or fails to run:

- Ensure the SIU has been installed correctly on all computers under test.

If you attempt to run SIU remotely, and you have not installed the SIU on the remote servers, you may see a message similar to:

```
SIU computer myserver.domain.local is not ready or credentials are
incorrect! [myserver.domain.local] Connecting to remote server
myserver.domain.local failed with the following error message : The
WinRM client cannot process the request...
```

- Ensure the operating system and PowerShell version are supported.
- Ensure the SIU configuration file is correct for the computers under test and valid for the SIU version.
- Ensure the correct SIU configuration file is being used.
- Ensure the remote credentials have been entered correctly for all computers under test.
- Ensure the remote computers are on the domain and their DNS is correctly registered.
- Ensure firewall rules are correct, if applicable. See the *Windows Firewall settings* section in the [Installation and Configuration Guide](#) for details of setting up your firewall.
- Ensure local group policy does not have PowerShell script execution disabled.
- Try running the SIU locally instead of remotely on the computer under test.
- Ensure the SIU version on all computers under test is compatible with the MyID version.
- Contact customer support, quoting reference SUP-104.

### 4.1 Known issues

For issues relating to installation or tests supported in this release, see the readme provided with the SIU release.

- **IKB-259 – SIU does not support systems with separate Web and Web Services servers**

If you install MyID in a split tier environment where the MyID web server and web services server are installed on different machines, you cannot currently select the web services server in the System Interrogation Utility. If you run the utility against the web server in this environment, errors are displayed, as web services are not installed.

- **IKB-263 – Cannot select databases with SQL Azure when SQL Server Auth is selected**

When **SQL Azure with SQL Server Auth (NoAuth)** value is selected for the field **DB Type and Auth** in the **SQL Settings** section, it is not possible to select the **Main DB** or **Archive DB** values as they are read-only. To work around this problem, select **SQL Server with Windows Auth (Mutual)** as the **DB Type and Auth** to be used, pick the databases to use, then select **SQL Azure with SQL Server Auth (NoAuth)** again.

- **IKB-272 – Exception reported for test IDs 028 and 235**

Test IDs 028 and 235 will report result `Exception` instead of `Fail` when the website used in Internet Information Services (IIS) is any website other than the **Default Web Site** and that website does not meet the criteria of the test case. Successful completion of the test case will report as `Pass`.

The actual result reported will be:

Unexpected exception

```
'System.Management.Automation.PropertyNotFoundException' occurred
during test ID 235 at line 1 with message 'The property 'Message'
cannot be found on this object. Verify that the property exists.'
```



## 5 Configuration file format

This chapter contains details of the format of the configuration file.

Strings can include PowerShell environment variables (such as `$HOME` or `$env:COMPUTERNAME`).

Computers can consist of any combination of fully qualified domain names, or IP addresses. To disable testing a specific computer, you can use an empty or `$null` string.

### 5.1 OperatingMode section

| Option | Description                          | Allowed values   | Comments  |
|--------|--------------------------------------|--|---|
| Mode   | SIU operating mode.                  | Local, RemoteWithSameCredentials or RemoteWithDifferentCredentials | This is a mandatory field.<br>For remote testing, specify whether to supply administrative credentials for the SIU to use on all computers: (RemoteWithSameCredentials) or each tier separately: ( RemoteWithDifferentCredentials). |
| RunAs  | Run tests in the context of user(s). | Installation User, Installation User / MyID Com Plus User          | This is a mandatory field.<br>You can set to Installation User / MyID Com Plus User, which will request credentials for the MyID Com Plus User and allow test ID 259 (Get BOL Status) to be run (supported only in Local Mode).     |

## 5.2 Computers section

| Option     | Description  | Allowed values   | Comments  |
|------------|--|--|---|
| Clients    | Hostname or IP address of each Client computer under test.             | String, comma-separated strings, empty string, or \$null | <p>This is a mandatory field if testing locally and this computer is a Client.</p> <p>At least one field from the Computers group is mandatory.</p> <p>Blank fields will cause the test coverage to be reduced significantly.</p>   |
| WebServers | Hostname or IP address of each Web Server computer under test.         | String, comma-separated strings, empty string, or \$null | <p>This is a mandatory field if testing locally and this computer is a Web Server.</p> <p>At least one field from the Computers group is mandatory.</p> <p>Blank fields will cause the test coverage to be reduced significantly.</p>   |
| AppServers | Hostname or IP address of each Application Server computer under test. | String, comma-separated strings, empty string, or \$null | <p>This is a mandatory field if MyID is installed.</p> <p>This is a mandatory field if testing locally and this computer is an Application Server.</p> <p>At least one field from the Computers group is mandatory.</p> <p>Blank fields will cause the test coverage to be reduced significantly.</p> |

| Option            | Description  | Allowed values   | Comments  |
|-------------------|--|--|---|
| Databases         | Hostname or IP address of each Database computer, cluster, or SQL Azure instance under test. | String, comma-separated strings, empty string, or \$null | This is a mandatory field if testing locally and this computer is a Database.<br>At least one field from the Computers group is mandatory.<br>Blank fields will cause the test coverage to be reduced significantly.          |
| DomainControllers | Hostname or IP address of each Domain Controller computer under test.                        | String, comma-separated strings, empty string, or \$null | This is a mandatory field if testing locally and this computer is a Domain Controller.<br>At least one field from the Computers group is mandatory.<br>Blank fields will cause the test coverage to be reduced significantly. |

### 5.3 Users section

| Option          | Description                                | Allowed values | Comments  |
|-----------------|--|----------------|---|
| MyIDComPlusUser | Name of COM+ user (domain account).        | String         | This is a mandatory field.<br>Specify the user without the domain name.   |
| IISUser         | Name of IIS user (domain account).         | String         | This is a mandatory field.<br>Specify the user without the domain name.   |
| WebServiceUser  | Name of web service user (domain account). | String         | This is a mandatory field.<br>Specify the user without the domain name.<br>If you are testing MyID 10.6 or earlier, specify a dummy user and ignore the associated results, as this user is not relevant. |

| Option           | Description  | Allowed values | Comments   |
|------------------|--|----------------|--|
| InstallationUser | Name of the installation user (domain account).              | String         | Optional.<br>Specify the user without the domain name.<br>You may need to add the installation user to the configuration file if you are running the SIU non-interactively and see errors relating to the installation user; for example, test 44. |
| AuthWSUser       | Name of the authentication web service user (domain account) | String         | This is a mandatory field.<br>Specify the user without the domain name.  |

## 5.4 SQLSettings section

| Option        | Description                                       | Allowed values   | Comments  |
|---------------|---|--|---|
| DBTypeAndAuth | Means of hosting the database and authentication. | None, SQL Server with Windows Auth (Mutual) or SQL Azure with SQL Server Auth (NoAuth) | This is a mandatory field.  |
| MainDB        | Name of main database.                            | String   | This is a mandatory field if MyID is installed.<br>Blank fields will cause the test coverage to be reduced significantly. |
| ArchiveDB     | Name of archive database (if used).               | String, empty string, or \$null  | This is an optional field.<br>Blank fields will cause the test coverage to be reduced significantly.                      |
| AuthDB        | Name of authentication database                   | String   | This is a mandatory field if MyID is installed.   |

## 5.5 IISSettings section

| Option      | Description                            | Allowed values                    | Comments   |
|-------------|--|-----------------------------------|--|
| IISProtocol | IIS protocols enabled.                 | None, HTTPS, HTTPS + HTTP or HTTP | This is a mandatory field.   |
| IISWebsite  | Name of the website for use with MyID. | String                            | This is a mandatory field.<br>IIS typically uses Default Web Site. |

## 5.6 Ports section

| Option       | Description                              | Allowed values | Comments  |
|--------------|--|----------------|---|
| SQLPortTCP   | Specifies the SQL Server port to use.    | Integer        | This is a mandatory field.<br>Defaults to 1433. |
| IISPortHTTP  | Specifies the IIS Server port for HTTP.  | Integer        | This is a mandatory field.<br>Defaults to 80.   |
| IISPortHTTPS | Specifies the IIS Server port for HTTPS. | Integer        | This is a mandatory field.<br>Defaults to 443.  |

## 5.7 Output section

| Option                 | Description  | Allowed values  | Comments   |
|------------------------|--|---|--|
| ExecuteTestIDs         | Specifies which tests will be executed.  | All or comma-separated string containing range of test IDs and/or specific test IDs | This is a mandatory field.<br>All tests will be executed if set to All.<br>You may specify a range of test IDs and/or specific test IDs to be executed, for example 001-003, 005, 010-142. |
| CustomerName           | Name of your organization to include in the filename of the HTML 5 reports (for reference only).             | String  | This is a mandatory field.   |
| EnvironmentType        | Brief description of your environment to include in the filename of the HTML 5 reports (for reference only). | Production or PreProduction   | This is a mandatory field.   |
| HideUnimportantResults | Hides unimportant results (Not Run and Can't Test) from reports for clarity.                                 | True or False   | This is an optional field.   |

## 6 Description of derived tests

This chapter contains details of the tests that the SIU runs. The **Reference** column links to the relevant section of the MyID documentation.

| Test ID | Group | Tiers       | Description   | Reference               |
|---------|-------|-------------|---|-------------------------|
| 1       | HW    | WB,AP,DB,DC | If tier is not Client, test the processor speed is greater than or equal to 2 GHz. If not satisfied, display outcome as a "Performance" warning, instead of a failure.  | <a href="#">SIU-001</a> |
| 2       | HW    | WB,AP,DB,DC | If tier is not Client, test the system RAM is greater than or equal to 4 Gb. If not satisfied, display outcome as a "Performance" warning, instead of a failure.  | <a href="#">SIU-002</a> |
| 3       | HW    | WB,AP,DB,DC | If tier is not Client and test case is run directly in a console session, test the display resolution is greater than or equal to 1024x768. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-003</a> |
| 4       | HW    | WB,AP,DB,DC | If tier is not Client and test case is run directly in a console session, test the display resolution is greater than or equal to 1024x768. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-004</a> |
| 5       | HW    | WB,AP,DB,DC | If tier is not Client, get a list of all local disks and the free space in gigabytes available. No test required.   | <a href="#">SIU-005</a> |
| 6       | HW    | DB          | If tier is Database Server, test the free space from the local disk with the most free space is greater than or equal to 40 Gb. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-006</a> |
| 7       | HW    | WB,AP       | If tier is Web Server or Application Server, get a list of the MyID installation locations on local disks and size of each installation in gigabytes. No test required.   | <a href="#">SIU-007</a> |
| 8       | OS    | WB,AP,DB,DC | If tier is not Client, test the operating system installed is Windows Server 2019 or Windows Server 2022.   | <a href="#">SIU-008</a> |
| 9       | DB    | AP,DB       | If tier is Application Server or Database Server, perform SQL query of master database (including Microsoft SQL Azure instances) and test the database installed is SQL Server 2017, SQL Server 2019, or Microsoft SQL Azure. Warn if the database installed is Microsoft SQL Server 2016, as this is end of support. | <a href="#">SIU-009</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 10      | DB    | AP,DB | If tier is Application Server or Database Server, perform SQL query of master database (including Microsoft SQL Azure instances) and test the database installed is SQL Server 2017, SQL Server 2019, or Microsoft SQL Azure. If not satisfied, display outcome as an "Untested configuration" warning, instead of a failure. Warn if the database installed is Microsoft SQL Server 2016, as this is end of support. | <a href="#">SIU-010</a> |
| 11      | HW    | CL    | If tier is Client, test the processor speed is greater than or equal to 1 GHz. If not satisfied, display outcome as a "Performance" warning, instead of a failure.  | <a href="#">SIU-011</a> |
| 12      | HW    | CL    | If tier is Client, test the system RAM is greater than or equal to 2 Gb. If not satisfied, display outcome as a "Performance" warning, instead of a failure.  | <a href="#">SIU-012</a> |
| 13      | HW    | CL    | If tier is Client and test case is run directly in a console session, test the display resolution is greater than or equal to 1280x768. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-013</a> |
| 14      | HW    | CL    | If tier is Client and test case is run directly in a console session, test the display resolution is greater than or equal to 1280x768. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-014</a> |
| 15      | HW    | CL    | If tier is Client, get a list of all local disks and the free space in gigabytes available. No test required.   | <a href="#">SIU-015</a> |
| 16      | HW    | CL    | If tier is Client, test the free space from the local disk with the most free space is greater than or equal to 2 Gb. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-016</a> |
| 17      | HW    | CL    | If tier is Client, get a list of the MyID installation locations on local disks and size of each installation in gigabytes. No test required.   | <a href="#">SIU-017</a> |
| 18      | OS    | CL    | If tier is Client, test the operating system installed is a supported Windows 10 or Windows 11 version. If not satisfied, display outcome as an "Untested Configuration" warning, instead of a failure.   | <a href="#">SIU-018</a> |
| 19      | IE    | CL    | If tier is Client, test major part of "svcVersion" of Internet Explorer installed is 11. If not satisfied, display outcome as an "Untested Configuration" warning, instead of a failure.  | <a href="#">SIU-019</a> |

| Test ID | Group | Tiers              | Description   | Reference               |
|---------|-------|--------------------|---|-------------------------|
| 20      | IE    | CL                 | If tier is Client, get if Internet Explorer is installed under "C:\Program Files" and if this is a 64-bit executable.   | <a href="#">SIU-020</a> |
| 21      | IE    | CL                 | If tier is Client, get if Internet Explorer is installed under "C:\Program Files (x86)" and if this is a 32-bit executable.   | <a href="#">SIU-021</a> |
| 22      | DB    | DB                 | If tier is Database Server, check that the SqlServer PowerShell module is installed. This module is required to run the SIU tests against the database. If the SqlServer module is not installed, but the SQLPS module is installed, the tests can still run, but as this module is no longer maintained, this test displays a warning. | <a href="#">SIU-022</a> |
| 23      | NW    | CL, WB, AP, DB, DC | On all tiers, test that each machine successfully performs an ICMP ping test to 0..n Clients.   | <a href="#">SIU-023</a> |
| 24      | NW    | CL, WB, AP, DB, DC | On all tiers, test that each machine successfully performs an ICMP ping test to 0..n Web Servers.   | <a href="#">SIU-024</a> |
| 25      | NW    | CL, WB, AP, DB, DC | On all tiers, test that each machine successfully performs an ICMP ping test to 0..n Application Servers.   | <a href="#">SIU-025</a> |
| 26      | NW    | CL, WB, AP, DB, DC | On all tiers, test that each machine successfully performs an ICMP ping test to Database Server or clusters (excluding Microsoft SQL Azure).  | <a href="#">SIU-026</a> |
| 27      | NW    | CL, WB, AP, DB, DC | On all tiers, test that each machine successfully performs an ICMP ping test to 0..n Domain Controllers.  | <a href="#">SIU-027</a> |
| 28      | NW    | CL, WB             | If tier is Client or Web Server, request status codes for all Web Servers using HTTP URL and test that an invalid/missing response (status code not 200) is not returned for each.  | <a href="#">SIU-028</a> |
| 29      | NW    | WB                 | If tier is Web Server, test firewall profile is either disabled, or (is enabled for domain, firewall rules to allow inbound traffic on TCP port 80 exist and rule is enabled).  | <a href="#">SIU-029</a> |
| 30      | NW    | WB                 | If tier is Web Server, test firewall profile is either disabled, or (is enabled for domain, firewall rules to allow inbound traffic on TCP port 443 exist and rule is enabled).   | <a href="#">SIU-030</a> |
| 31      | AD    | CL, WB, AP, DB, DC | On all tiers, test if tier is on domain.  | <a href="#">SIU-031</a> |
| 32      | AD    | DC                 | If tier is Domain Controller, test if service "Active Directory Domain Services" is installed and running.  | <a href="#">SIU-032</a> |
| 33      | OS    | CL, WB, AP, DB, DC | On all tiers, get local machine's culture name. No test required.   | <a href="#">SIU-033</a> |



| Test ID | Group | Tiers          | Description  | Reference               |
|---------|-------|----------------|--|-------------------------|
| 34      | OS    | CL,WB,AP,DB,DC | On all tiers, get local machine's long date format pattern. No test required.  | <a href="#">SIU-034</a> |
| 35      | OS    | CL,WB,AP,DB,DC | On all tiers, get local machine's short date format pattern. No test required.   | <a href="#">SIU-035</a> |
| 36      | OS    | CL,WB,AP,DB,DC | On all tiers, get local machine's language tag. No test required.  | <a href="#">SIU-036</a> |
| 37      | .NET  | WB,AP,DB       | If tier is Web Server, Application Server or Database Server, test .NET Framework version installed includes 4.8 or above.   | <a href="#">SIU-037</a> |
| 38      | .NET  |                | If tier is Database Server, test .NET Framework version installed includes 3.5.  | <a href="#">SIU-038</a> |
| 40      | AD    | DC             | If tier is Domain Controller, test membership of domain group "Domain Users" contains this user.   | <a href="#">SIU-040</a> |
| 41      | AD    | WB,AP          | If tier is Application Server or Web Server, test membership of local group "Administrators" contains this user.   | <a href="#">SIU-041</a> |
| 42      | AD    | WB,AP          | If tier is Application Server or Web Server, test impersonation of client after authentication for users in the group "BUILTIN\Administrators"; this should include the installation user.   | <a href="#">SIU-042</a> |
| 43      | DB    | DB             | If tier is Database Server, test SQL Server role privileges is 'public' for this user or group. Role "public" is a special case and cannot be queried, so it is included by default if the user exists for the server.   | <a href="#">SIU-043</a> |
| 44      | DB    | DB             | If tier is Database Server, test SQL Server role privileges is 'dbcreator' for this user or group.<br>If this test fails, try adding the <code>InstallationUser</code> to the <code>[Users]</code> section of the configuration file. See <a href="#">section 5.3, Users section</a> . | <a href="#">SIU-044</a> |
| 45      | AD    | DC             | If tier is Domain Controller, test domain user for MyID COM+ account exists.   | <a href="#">SIU-045</a> |
| 46      | AD    | DC             | If tier is Domain Controller, test MyID COM+ account is enabled, not locked out and expiry date is less than or equal to 0.  | <a href="#">SIU-046</a> |
| 47      | AD    | DC             | If tier is Domain Controller, test MyID COM+ account password will never expire and has not expired.   | <a href="#">SIU-047</a> |
| 48      | AD    |                | If tier is Domain Controller, test MyID COM+ account exists on the domain under organizational unit "Service Accounts".  | <a href="#">SIU-048</a> |
| 49      | AD    | DC             | If tier is Domain Controller, test MyID COM+ account is a member of domain group "Domain Users".   | <a href="#">SIU-049</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 50      | AD    | WB,AP | If tier is Application Server or Web Server, test MyID COM+ account is a member of local group "Distributed COM Users".                                 | <a href="#">SIU-050</a> |
| 51      | AD    | AP    | If MyID is installed and tier is Application Server, test "Logon as a Service" and "Logon as a Batch Job" are set for this user or group.               | <a href="#">SIU-051</a> |
| 53      | AD    | DC    | If tier is Domain Controller, test IIS User domain user for IIS user account exists.  | <a href="#">SIU-053</a> |
| 54      | AD    | DC    | If tier is Domain Controller, test IIS User account is enabled, not locked out and expiry date is less than or equal to 0.                              | <a href="#">SIU-054</a> |
| 55      | AD    | DC    | If tier is Domain Controller, test IIS User account password will never expire and has not expired.   | <a href="#">SIU-055</a> |
| 56      | AD    |       | If tier is Domain Controller, test IIS User account exists on the domain under organizational unit "Service Accounts".                                  | <a href="#">SIU-056</a> |
| 57      | AD    | DC    | If tier is Domain Controller, test IIS User account is a member of domain group "Domain Users".   | <a href="#">SIU-057</a> |
| 58      | AD    | WB,AP | If tier is Application Server or Web Server, test IIS User account is a member of local group "Distributed COM Users".                                  | <a href="#">SIU-058</a> |
| 59      | AD    | DC    | If tier is Domain Controller, test domain user for Web service user account exists.   | <a href="#">SIU-059</a> |
| 60      | AD    | DC    | If tier is Domain Controller, test Web service user account is enabled, not locked out and expiry date is less than or equal to 0.                      | <a href="#">SIU-060</a> |
| 61      | AD    | DC    | If tier is Domain Controller, test Web service user account password will never expire and has not expired.   | <a href="#">SIU-061</a> |
| 62      | AD    |       | If tier is Domain Controller, test Web service user account exists on the domain under organizational unit "Service Accounts".                          | <a href="#">SIU-062</a> |
| 63      | AD    | DC    | If tier is Domain Controller, test Web service user account is a member of domain group "Domain Users".   | <a href="#">SIU-063</a> |
| 64      | AD    | WB,AP | If tier is Application Server or Web Server, test Web service user account is a member of local group "Distributed COM Users".                          | <a href="#">SIU-064</a> |
| 65      | COM   | DC    | If tier is Domain Controller, test MyID COM+ account or group has "Local Launch" permissions and "Local Activation" permissions on Application Servers. | <a href="#">SIU-065</a> |

| Test ID | Group | Tiers    | Description   | Reference               |
|---------|-------|----------|---|-------------------------|
| 67      | COM   | DC       | If tier is Domain Controller, test MyID COM+ account or group has "Local Launch" permissions and "Local Activation" permissions on Web Servers.   | <a href="#">SIU-067</a> |
| 71      | COM   | AP,DC    | If tier is Domain Controller and a split-tier installation, test local Distributed COM Users group on Application Servers has Local Launch, Local Activation, Remote Launch and Remote Activation permissions.                                  | <a href="#">SIU-071</a> |
| 75      | COM   | WB,DC    | If tier is Domain Controller and a split-tier installation, test local Distributed COM Users group on Web Servers has Local Launch, Local Activation, Remote Launch and Remote Activation permissions.  | <a href="#">SIU-075</a> |
| 79      | IIS   | WB       | If MyID is installed and tier is Web Server, test ASP limits for "maxRequestEntityAllowed" is greater than or equal to 524288. If not satisfied, display outcome as a "Performance" warning, instead of a failure.                              | <a href="#">SIU-079</a> |
| 80      | IIS   | WB       | If MyID is installed and tier is Web Server, test ASP limits for "bufferingLimit" is greater than or equal to 524288. If not satisfied, display outcome as a "Performance" warning, instead of a failure.                                       | <a href="#">SIU-080</a> |
| 82      | COM   | AP       | If tier is Application Server, test "Transaction Timeout" is greater than or equal to 180. If not satisfied, display outcome as a "Performance" warning, instead of a failure.  | <a href="#">SIU-082</a> |
| 83      | MSDTC | WB,AP,DB | If tier is Application Server, Web Server or Database Server and a split-tier installation, test MSDTC default coordinator is local.  | <a href="#">SIU-083</a> |
| 84      | MSDTC | WB,AP,DB | If tier is Application Server, Web Server or Database Server and a split-tier installation, test MSDTC security is set to allow remote clients inbound and outbound.  | <a href="#">SIU-084</a> |
| 85      | MSDTC | WB,AP,DB | If tier is Application Server, Web Server or Database Server, a split-tier installation and Windows Firewall is enabled, test active rule for "Distributed Transaction Coordinator (TCP-In)" is enabled, allowed inbound for "Domain" networks. | <a href="#">SIU-085</a> |
| 86      | MSDTC | WB,AP,DB | If tier is Application Server, Web Server or Database Server, a split-tier installation and Windows Firewall is enabled, test "Block all incoming connections including those in the list of allowed apps" option is not selected.              | <a href="#">SIU-086</a> |

| Test ID | Group | Tiers    | Description   | Reference               |
|---------|-------|----------|---|-------------------------|
| 87      | IIS   | WB       | If MyID is installed and tier is Web Server, test each application for each website has Output Caching feature settings disabled for cache. If not satisfied, display outcome as a "Performance" warning, instead of a failure.   | <a href="#">SIU-087</a> |
| 88      | IIS   | WB       | If MyID is installed and tier is Web Server, test each application for each website has Output Caching feature settings disabled for kernel cache. If not satisfied, display outcome as a "Performance" warning, instead of a failure.  | <a href="#">SIU-088</a> |
| 91      | OS    | WB,AP,DB | If tier is Web Server, Application Server or Database Server, test that "Do not use temporary folders per session option" is Enabled. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.   | <a href="#">SIU-091</a> |
| 92      | DB    | DB       | If tier is Database Server, test by reading the SQL Server installation summary log that the "Database Engine Services" feature is installed.   | <a href="#">SIU-092</a> |
| 93      | DB    | AP,DB    | If tier is Application Server or Database Server or Application Server, test by reading the SQL Server installation summary log that the "Client Tools Connectivity" feature is installed.  | <a href="#">SIU-093</a> |
| 96      | DB    | AP,DB    | If tier is Application Server or Database Server, perform SQL query of master database (including Microsoft SQL Azure instances) and test that "Full Text Search" is enabled.   | <a href="#">SIU-096</a> |
| 97      | DB    | DB       | <p>If tier is Database Server, and the database does not exist, test SQL Server role privileges includes "sysadmin" for the installation user.</p> <p>If the database does exist, check that the MyID COM user and MyID Authentication user accounts exist as logins in the MyID and authentication databases; if the logins do not exist, check that the installation user has "sysadmin" privilege so that the installation process can create the logins.</p> <p><b>Note:</b> This test requires the installation user to have either the <code>sysadmin</code> role or the <code>securityadmin</code> role; if not, this test displays a warning.</p> | <a href="#">SIU-097</a> |
| 98      | DB    | AP,DB    | If tier is Application Server or Database Server, perform SQL query of master database (including Microsoft SQL Azure instances) and test that language is "English (United States)".   | <a href="#">SIU-098</a> |

| Test ID | Group | Tiers    | Description  | Reference               |
|---------|-------|----------|--|-------------------------|
| 99      | DB    | WB,AP,DB | Check whether the server requires a reboot due to pending updates. You are recommended to restart your server before starting the MyID installation process.   | <a href="#">SIU-099</a> |
| 100     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\NET Extensibility 4.x" is installed.            | <a href="#">SIU-100</a> |
| 101     | RF    |          | If tier is Database Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature ".NET Framework 3.5 Features\NET Framework 3.5 (includes .NET 2.0 and 3.0)" is installed.       | <a href="#">SIU-101</a> |
| 102     | RF    | WB,AP    | If tier is Web Server, Application Server or Database Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature ".NET Framework 4.5 Features\NET Framework 4.5" is installed. | <a href="#">SIU-102</a> |
| 103     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\ASP" is installed.                              | <a href="#">SIU-103</a> |
| 104     | RF    | WB       | If OS is Windows Server 2019 or Windows Server 2022 check for ASP.NET 4.6 or greater is installed.   | <a href="#">SIU-104</a> |
| 106     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature Windows "Process Activation Service\Configuration APIs" is installed.                                | <a href="#">SIU-106</a> |
| 107     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Common HTTP Features\Default Document" is installed.                    | <a href="#">SIU-107</a> |
| 110     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Common HTTP Features\HTTP Errors" is installed.                         | <a href="#">SIU-110</a> |
| 111     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Health and Diagnostics\HTTP Logging" is installed.                      | <a href="#">SIU-111</a> |

| Test ID | Group | Tiers    | Description  | Reference               |
|---------|-------|----------|--|-------------------------|
| 112     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\ISAPI Extensions" is installed.                             | <a href="#">SIU-112</a> |
| 113     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\ISAPI Filters" is installed.                                | <a href="#">SIU-113</a> |
| 114     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Management Tools\IIS Management Console" is installed.   | <a href="#">SIU-114</a> |
| 115     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Management Tools\IIS Management Scripts and Tools" is installed.                               | <a href="#">SIU-115</a> |
| 117     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Windows Process Activation Service\Process Model" is installed.   | <a href="#">SIU-117</a> |
| 118     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Security" is installed.   | <a href="#">SIU-118</a> |
| 119     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Common HTTP Features\Static Content" is installed.                                  | <a href="#">SIU-119</a> |
| 120     | RF    | WB       | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Web Server (IIS)\Web Server\Performance\Static Content Compression" is installed.                               | <a href="#">SIU-120</a> |
| 121     | RF    | WB,AP,DB | If tier is Web Server, Application Server or Database Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "File and Storage Services\Storage Services" is installed.                | <a href="#">SIU-121</a> |
| 122     | RF    | WB,AP,DB | If tier is Web Server, Application Server or Database Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature ".NET Framework 4.5 Features\WCF Services\TCP Port Sharing" is installed. | <a href="#">SIU-122</a> |

| Test ID | Group | Tiers    | Description  | Reference               |
|---------|-------|----------|--|-------------------------|
| 124     | RF    | WB,AP,DB | If tier is Web Server, Application Server or Database Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "Windows PowerShell\Windows PowerShell 4.0" is installed.   | <a href="#">SIU-124</a> |
| 125     | RF    | WB,AP    | If tier is Web Server or Application Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature "WoW64 Support" is installed.  | <a href="#">SIU-125</a> |
| 126     | DB    | DB       | If tier is Database Server, test language for COM+ account user is "us_english".   | <a href="#">SIU-126</a> |
| 127     | DB    | DB       | If MyID is installed and tier is Database Server, test SQL database role membership for MyID main database for COM+ account user or group includes roles "db_datareader", "db_datawriter", "db_owner" and "public". Role "public" is a special case and cannot be queried, so it is included by default if the user exists for the database.           | <a href="#">SIU-127</a> |
| 131     | DB    | DB       | If MyID is installed and tier is Database Server, test SQL database role membership for MyID archive database for COM+ account user or group includes roles "db_datareader", "db_datawriter", "db_owner" and "public". Role "public" is a special case and cannot be queried, so it is included by default if the user exists for the database.        | <a href="#">SIU-131</a> |
| 140     | .NET  | CL       | If tier is Client, test .NET Framework version installed includes 4.8 or above.  | <a href="#">SIU-140</a> |
| 144     | IE    | CL       | If tier is Client, test if the Web Server zone mapping for the Web Server hostname under the enhanced and non-enhanced security configuration is a Trusted Site or Local Intranet zone. Test if the Web Server zone mapping for the Web Server IP address under the enhanced and non-enhanced security range is a Trusted Site or Local Intranet zone. | <a href="#">SIU-144</a> |
| 145     | IE    | CL       | If tier is Client, test the value of "Require server verification (https:) for all sites in this zone" option is selected. This is HTTPS if bit 2 is set of registry key "Flags" under path:<br><br>"HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\n"<br>where n =1 for Local Intranet, n = 2 for Trusted Sites.             | <a href="#">SIU-145</a> |



| Test ID | Group | Tiers | Description  | Reference               |
|---------|-------|-------|--|-------------------------|
| 146     | IE    | CL    | <p>If tier is Client, test if the Popup blocker in Internet Options is disabled, or enabled and the allowed sites includes the Web Server. This is in registry key "PopupMgr", under path:</p> <p>"HKCU:\Software\Microsoft\Internet Explorer\New Windows"</p> <p>and registry key "x", where x is Web Server, under path:</p> <p>"HKCU:\Software\Microsoft\Internet Explorer\New Windows\Allow"</p> <p>respectively.</p>                                    | <a href="#">SIU-146</a> |
| 147     | IE    | CL    | <p>If tier is Client, test state of custom security setting "Initialize and script ActiveX controls not marked as safe for scripting". This is enabled if bits 0-2 are cleared for registry key "1201" under path:</p> <p>"HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\n"</p> <p>where n =1 for Local Intranet, n=2 for Trusted Sites. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.</p> | <a href="#">SIU-147</a> |
| 148     | IE    | CL    | <p>If tier is Client, test state of custom security setting "Only allow approved domains to use ActiveX without prompt". This is disabled if bits 0-2 are cleared of registry key "120B" under path:</p> <p>"HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\n"</p> <p>where n =1 for Local Intranet, n=2 for Trusted Sites. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.</p>               | <a href="#">SIU-148</a> |
| 149     | IE    | CL    | <p>If tier is Client, test state of custom security setting "Check for publisher's certificate revocation". This is disabled if bit 9 is set of registry key "State" under path:</p> <p>"HKCU:\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing"</p> <p>If not satisfied, display outcome as a "Performance" warning, instead of a failure.</p>  | <a href="#">SIU-149</a> |



| Test ID | Group | Tiers  | Description  | Reference               |
|---------|-------|--------|--|-------------------------|
| 150     | IIS   | WB     | If tier is Web Server, test IIS website name is correct and the website is started.  | <a href="#">SIU-150</a> |
| 152     | NW    | CL, WB | If tier is Client or Web Server, request status codes for all Web Servers using HTTPS URL and test that an invalid/missing response (status code not 200) is not returned for each.  | <a href="#">SIU-152</a> |
| 153     | DB    | DB     | If tier is Database Server, test that service "MSSQLSERVER" (SQL Server (MSSQLSERVER)) is installed and running.   | <a href="#">SIU-153</a> |
| 154     | COM   | AP     | If MyID is installed and tier is Application Server, test that COM+ application "APDUCardServer" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.              | <a href="#">SIU-154</a> |
| 155     | COM   | AP     | If MyID is installed and tier is Application Server, test that COM+ application "EAudit" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.                      | <a href="#">SIU-155</a> |
| 156     | COM   | AP     | If MyID is installed and tier is Application Server, test that COM+ application "eCS" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "App_role" and "Web_role" roles. If not satisfied, display outcome as a "Security" warning, instead of a failure.         | <a href="#">SIU-156</a> |
| 157     | COM   | AP     | If MyID is installed and tier is Application Server, test that COM+ application "Edefice_BOL" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "App_role" and "Web_role" roles. If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-157</a> |
| 158     | COM   | AP     | If MyID is installed and tier is Application Server, test that COM+ application "Edefice_CS" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.                  | <a href="#">SIU-158</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 159     | COM   | AP    | If MyID is installed and tier is Application Server, test that COM+ application "Edefice_DAL" (exc. Web Servers) has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "App_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-159</a> |
| 160     | COM   | AP    | If MyID is installed and tier is Application Server, test that COM+ application "eEventLog" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.                      | <a href="#">SIU-160</a> |
| 161     | COM   | AP    | If MyID is installed and tier is Application Server, test that COM+ application "eExternalDataSource" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.            | <a href="#">SIU-161</a> |
| 162     | COM   | AP    | If MyID is installed and tier is Application Server, test that COM+ application "ePKIConfig" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.                     | <a href="#">SIU-162</a> |
| 163     | COM   | AP    | If MyID is installed and tier is Application Server, test that COM+ application "Entrust_Admin" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "App_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.                  | <a href="#">SIU-163</a> |
| 164     | COM   | AP    | If MyID is installed and tier is Application Server, test that COM+ application "ImportProcessor" has "Enforce access checks for this application" set, "Perform access checks at the process and component level" set, as well as the "App_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.                | <a href="#">SIU-164</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 165     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that the "eCS.WebConnector.1" component has "Enforce component level access checks" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.          | <a href="#">SIU-165</a> |
| 166     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that the "EdeficeBOL_PKI.EdeficePKI.1" component has "Enforce component level access checks" set, as well as the "App_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-166</a> |
| 167     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that the "EdeficeBOL_PKI.PKIHelper.1" component has "Enforce component level access checks" set, as well as the "App_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.  | <a href="#">SIU-167</a> |
| 168     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that all "MyIDBOL.BOL_*.API.1" components have "Enforce component level access checks" set, as well as the "App_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.       | <a href="#">SIU-168</a> |
| 169     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that all "MyIDBOL.BOL_*.Web.1" components have "Enforce component level access checks" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure.       | <a href="#">SIU-169</a> |
| 170     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that components have "Enforce component level access checks" set, as well as the "App_role" and "Web_role" roles. If not satisfied, display outcome as a "Security" warning, instead of a failure.                 | <a href="#">SIU-170</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 171     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that components have "Enforce component level access checks" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-171</a> |
| 172     | COM   | AP    | If MyID is installed, tier is Application Server and a COM+ application has both roles (that is, eCS and Edefice_BOL), then test that components have "Enforce component level access checks" set, as well as the "Web_role" role. If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-172</a> |
| 173     | COM   | AP    | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "APDUCardServer". No test required.  | <a href="#">SIU-173</a> |
| 174     | COM   | AP    | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "EAudit". No test required.  | <a href="#">SIU-174</a> |
| 175     | COM   | AP    | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "eCS". No test required.   | <a href="#">SIU-175</a> |
| 176     | COM   | AP    | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "Edefice_BOL". No test required.   | <a href="#">SIU-176</a> |
| 177     | COM   | AP    | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "Edefice_CS". No test required.  | <a href="#">SIU-177</a> |
| 178     | COM   | AP    | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "Edefice_DAL". No test required.   | <a href="#">SIU-178</a> |

| Test ID | Group | Tiers          | Description  | Reference               |
|---------|-------|----------------|--|-------------------------|
| 179     | COM   | AP             | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "eEventLog". No test required.                              | <a href="#">SIU-179</a> |
| 180     | COM   | AP             | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "eExternalDataSource". No test required.                    | <a href="#">SIU-180</a> |
| 181     | COM   | AP             | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "ePKIConfig". No test required.                             | <a href="#">SIU-181</a> |
| 182     | COM   | AP             | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "Entrust_Admin". No test required.                          | <a href="#">SIU-182</a> |
| 183     | COM   | AP             | If MyID is installed and tier is Application Server, get PoolingPoolSize, RecycleActivationLimit, RecycleCallLimit, RecycleExpirationTimeout, RecycleLifetimeLimit and RecycleMemoryLimit for COM+ application "ImportProcessor". No test required.                        | <a href="#">SIU-183</a> |
| 184     | MyID  | CL, WB, AP, DB | If MyID is installed and tier is Client, Web Server, Application Server or Database Server, get name of all MyID installations with the security identifier (SID) and the name of the installation user (if possible) used (from the Windows Event Log). No test required. | <a href="#">SIU-184</a> |
| 185     | MyID  | WB, AP         | If MyID is installed and tier is Web Server or Application Server, get all tiers used by MyID installations (from the Registry). No test required.   | <a href="#">SIU-185</a> |
| 186     | MyID  | AP             | If MyID is installed and tier is Application Server, get MyID installation type (ENT/PIV) from Registry.   | <a href="#">SIU-186</a> |
| 187     | MyID  | WB             | If MyID is installed and tier is Web Server, get MyID installation type (ENT/PIV) from web files installed.  | <a href="#">SIU-187</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 188     | MyID  | AP,DB | If MyID is installed and tier is Application Server or Database Server, get MyID installation type (ENT/PIV) from SQL query of database (including Microsoft SQL Azure instances).  | <a href="#">SIU-188</a> |
| 189     | COM   | WB,AP | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "APDUCardServer" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-189</a> |
| 190     | COM   | WB,AP | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "EAudit" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.         | <a href="#">SIU-190</a> |
| 191     | COM   | WB,AP | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "eCS" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.            | <a href="#">SIU-191</a> |
| 192     | COM   | WB,AP | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "Edefice_BOL" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.    | <a href="#">SIU-192</a> |
| 193     | COM   | WB,AP | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "Edefice_CS" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.     | <a href="#">SIU-193</a> |
| 194     | COM   | AP    | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "Edefice_DAL" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.    | <a href="#">SIU-194</a> |
| 195     | COM   | WB,AP | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "eEventLog" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.      | <a href="#">SIU-195</a> |

| Test ID | Group  | Tiers          | Description  | Reference               |
|---------|--------|----------------|--|-------------------------|
| 196     | COM    | WB,AP          | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "eExternalDataSource" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-196</a> |
| 197     | COM    | WB,AP          | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "ePKIConfig" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.          | <a href="#">SIU-197</a> |
| 198     | COM    | WB,AP          | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "Entrust_Admin" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.       | <a href="#">SIU-198</a> |
| 199     | COM    | WB,AP          | If MyID is installed and tier is Application Server or Web Server, test that the COM+ application "ImportProcessor" has DCOM security setting "Authentication Level For Calls" set to "Packet Privacy". If not satisfied, display outcome as a "Security" warning, instead of a failure.     | <a href="#">SIU-199</a> |
| 200     | System | DC             | If tier is Domain Controller, test that every computer on the domain has a unique SID (Security Identifier). Report computer names with duplicate SID values.  | <a href="#">SIU-200</a> |
| 201     | SIU    | CL,WB,AP,DB,DC | On all tiers, test that SIU is running as an administrator user. If not satisfied, display outcome as a "Limited SIU Test Coverage" warning, instead of a failure.   | <a href="#">SIU-201</a> |
| 202     | SIU    | CL,WB,AP,DB,DC | On all tiers, test that SIU can detect if MyID is or is not installed on the Application Servers (because a limited user cannot make WMI calls). If not satisfied, display outcome as a "Limited SIU Test Coverage" warning, instead of a failure.   | <a href="#">SIU-202</a> |
| 203     | HW     | WB,AP,DC       | If tier is Web Server, Application Server or Domain Controller, test the free space from the local disk with the most free space is greater than or equal to 2 Gb. If not satisfied, display outcome as a "Performance" warning, instead of a failure.                                       | <a href="#">SIU-203</a> |



| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 204     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.   | <a href="#">SIU-204</a> |
| 205     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.   | <a href="#">SIU-205</a> |
| 206     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "APDUCardServer" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure. | <a href="#">SIU-206</a> |
| 207     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "EAudit" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.         | <a href="#">SIU-207</a> |
| 208     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "eCS" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.            | <a href="#">SIU-208</a> |
| 209     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "Edefice_BOL" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.    | <a href="#">SIU-209</a> |



| Test ID | Group | Tiers | Description  | Reference               |
|---------|-------|-------|--|-------------------------|
| 210     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "Edefice_CS" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.          | <a href="#">SIU-210</a> |
| 211     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "eEventLog" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.           | <a href="#">SIU-211</a> |
| 212     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "eExternalDataSource" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure. | <a href="#">SIU-212</a> |
| 213     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "ePKIConfig" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.          | <a href="#">SIU-213</a> |
| 214     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "Entrust_Admin" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.       | <a href="#">SIU-214</a> |
| 215     | COM   | WB    | If MyID is installed, tier is Web Server and is a proxy (Web Server is different to the Application Server), test that the COM+ application proxy "ImportProcessor" is enabled, is a proxy, is a server application and that the proxy server is the Application Server. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.     | <a href="#">SIU-215</a> |

| Test ID | Group | Tiers    | Description   | Reference               |
|---------|-------|----------|---|-------------------------|
| 217     | AD    | DB       | If tier is Database Server, test membership of local group Administrators contains the installation user. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.   | <a href="#">SIU-217</a> |
| 218     | MSDTC | WB,AP,DB | If tier is Application Server, Web Server or Database Server and a split-tier installation, test authentication level is "None" if using SQL authentication, otherwise authentication level is "Mutual".  | <a href="#">SIU-218</a> |
| 219     | DB    | DB       | If tier is Database Server, check if service "SQL Server Browser" is running.   | <a href="#">SIU-219</a> |
| 220     | DB    | DB       | If tier is Database Server, check if service "MS SQL SERVER" is running.  | <a href="#">SIU-220</a> |
| 221     | DB    | DB       | If tier is Database Server, check if service "MS SQL FD Launcher" is running.   | <a href="#">SIU-221</a> |
| 222     | DB    | DB       | If tier is Database Server, check if service "SQL SERVER AGENT" is running.   | <a href="#">SIU-222</a> |
| 226     | MyID  | AP       | If MyID is installed and tier is Application Server, test that file "MyID.udl" exists, has Read permissions for the COM+ user, Initial Catalog pointing to the main database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string.           | <a href="#">SIU-226</a> |
| 227     | MyID  | AP       | If MyID is installed and tier is Application Server, test that file "MyIDaudit.udl" exists, has Read permissions for the COM+ user, Initial Catalog pointing to the main database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string.      | <a href="#">SIU-227</a> |
| 228     | MyID  | AP       | If MyID is installed and tier is Application Server, test that file "MyIDarchive.udl" exists, has Read permissions for the COM+ user, Initial Catalog pointing to the archive database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string. | <a href="#">SIU-228</a> |

| Test ID | Group | Tiers  | Description   | Reference               |
|---------|-------|--------|---|-------------------------|
| 229     | MyID  | AP     | If MyID is installed and tier is Application Server, test that file "MyIDbinary.udl" exists, has Read permissions for the COM+ user, Initial Catalog pointing to the main database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string.       | <a href="#">SIU-229</a> |
| 230     | MyID  | AP     | If MyID is installed and tier is Application Server, test that file "import.udl" has exists, Read permissions for the COM+ user, Initial Catalog pointing to the main database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string.           | <a href="#">SIU-230</a> |
| 231     | MyID  | AP     | If MyID is installed and tier is Application Server, test that file "importaudit.udl" exists, has Read permissions for the COM+ user, Initial Catalog pointing to the main database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string.      | <a href="#">SIU-231</a> |
| 232     | MyID  | AP     | If MyID is installed and tier is Application Server, test that file "importarchive.udl" exists, has Read permissions for the COM+ user, Initial Catalog pointing to the archive database and Data Source pointing to the Database Server (including Microsoft SQL Azure instances). Test the database connection by reading a data row and comparing with values queried using a known connection string. | <a href="#">SIU-232</a> |
| 233     | IIS   | WB     | If MyID is installed and tier is Web Server, test application pool "MyIDPoolClassic" exists and has started.  | <a href="#">SIU-233</a> |
| 234     | IIS   | WB     | If MyID is installed and tier is Web Server, test application pool "MyIDWebService" exists and has started.   | <a href="#">SIU-234</a> |
| 235     | NW    | CL, WB | If tier is Client or Web Server, request status codes for all Web Servers using HTTP URL and test that a valid response (status code 200) is not returned for each if the supplied configuration is HTTPS. If not satisfied, display outcome as a "Security" warning, instead of a failure.   | <a href="#">SIU-235</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 236     | NW    | CL,WB | If tier is Client or Web Server, request status codes for all Web Servers using HTTPS URL and test that a valid response (status code 200) is not returned for each if the supplied configuration is HTTP. If not satisfied, display outcome as a "Security" warning, instead of a failure. | <a href="#">SIU-236</a> |
| 238     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the Role and Feature ".NET Framework 4.5 Features\ASP.NET 4.5" is installed.   | <a href="#">SIU-238</a> |
| 239     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                           | <a href="#">SIU-239</a> |
| 240     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                           | <a href="#">SIU-240</a> |
| 241     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                           | <a href="#">SIU-241</a> |
| 242     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                           | <a href="#">SIU-242</a> |
| 243     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                           | <a href="#">SIU-243</a> |
| 244     | RF    | WB    | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                           | <a href="#">SIU-244</a> |

| Test ID | Group    | Tiers  | Description   | Reference               |
|---------|----------|--------|---|-------------------------|
| 245     | RF       | WB     | If tier is Web Server and OS is Windows Server 2019 or Windows Server 2022, test the security sub-roles of Role and Feature "Web Server (IIS)\Web Server\Security" is installed. If not satisfied, display outcome as a "Security" warning, instead of a failure.                                 | <a href="#">SIU-245</a> |
| 246     | OS       | AP     | If tier is Application Server, test that the following folders exist and match a simple FIPS-compliant SHA-256 hash of the list of file names contained within:- "[Program Files]\Common Files\System\ado"  | <a href="#">SIU-246</a> |
| 247     | OS       | AP     | If tier is Application Server, test that the following folders exist and match a simple FIPS-compliant SHA-256 hash of the list of file names contained within:- "[Program Files]\Common Files\System\msadc"  | <a href="#">SIU-247</a> |
| 248     | IIS      | CL, WB | If MyID is installed and tier is Client or Web Server, request status codes for all Web Servers to path "MyIDProcessDriver" using HTTPS or HTTP URL (according to configuration) and test that an invalid/missing response (status code not 200) is not returned for each.                        | <a href="#">SIU-248</a> |
| 249     | IIS      | CL, WB | If MyID is installed and tier is Client or Web Server, request status codes for all Web Servers to path "MyIDDDataSource" using HTTPS or HTTP URL (according to configuration) and test that an invalid/missing response (status code not 200) is not returned for each.                          | <a href="#">SIU-249</a> |
| 250     | IIS      | CL     | If MyID is installed and tier is Client, test the Desktop Client configuration file exists, it does not contain invalid XML and all of the URLs in the "Servers" section of the Desktop Client configuration file match the URLs of all the Web Servers for the given IIS protocol configuration. | <a href="#">SIU-250</a> |
| 251     | IIS      | WB     | If tier is Web Server and IIS protocol is "HTTPS + HTTP" or "HTTPS", check IIS website SSL bindings point to a certificate that is valid for the default website and DNS matching the web servers.  | <a href="#">SIU-251</a> |
| 252     | Services | AP     | If MyID is installed and tier is Application Server, test that service "eBureauSrv" has Startup Type: Auto, Log On As: COM+ User, State: Running, or the service is not installed.  | <a href="#">SIU-252</a> |
| 253     | Services | AP     | If MyID is installed and tier is Application Server, test that service "eCertificateSrv" has Startup Type: Auto, Log On As: COM+ User, State: Running.  | <a href="#">SIU-253</a> |

| Test ID | Group    | Tiers    | Description   | Reference               |
|---------|----------|----------|---|-------------------------|
| 254     | Services | AP       | If MyID is installed and tier is Application Server, test that service "eJobServer" has Startup Type: Auto, Log On As: COM+ User, State: Running.   | <a href="#">SIU-254</a> |
| 255     | Services | AP       | If MyID is installed and tier is Application Server, test that service "eKeySrv" has Startup Type: Manual, Log On As: COM+ User, State: Running.  | <a href="#">SIU-255</a> |
| 256     | Services | AP       | If MyID is installed and tier is Application Server, test that service "eMessageSrv" has Startup Type: Manual, Log On As: COM+ User, State: Running or Stopped.   | <a href="#">SIU-256</a> |
| 257     | Services | AP       | If MyID is installed and tier is Application Server, test that service "NotificationsService" has Startup Type: Auto, Log On As: COM+ User, State: Running.   | <a href="#">SIU-257</a> |
| 258     | IIS      | WB       | If tier is Web Server, test that service "W3SVC" (World Wide Web Publishing Service) is installed and running.  | <a href="#">SIU-258</a> |
| 259     | COM      | WB,AP    | If MyID is installed, tier is Web Server or Application Server, create COM object for component "MyIDBOL.BOL_GetCoreWeb.1" and call method "GetVersion". Obtain the total number of components and configuration records. Create COM object for component "EConfiguration.Configuration" and call method "GetBOLMethods". For each method, obtain "webProgId" and attempt to instantiate a COM object. Test whether all the COM objects can be created. | <a href="#">SIU-259</a> |
| 260     | MSDTC    | WB,AP,DB | If tier is Application Server, Web Server or Database Server, a split-tier installation and Windows Firewall is enabled, test active rule for "Distributed Transaction Coordinator (RPC)" is enabled, allowed inbound for "Domain" networks.  | <a href="#">SIU-260</a> |
| 261     | MyID     | AP       | If MyID is installed and tier is Application Server, test that the DatabaseType value from the Registry is compatible with the means of hosting the database specified in configuration option DBTypeAndAuth.   | <a href="#">SIU-261</a> |
| 262     | MyID     | AP       | If MyID is installed and tier is Application Server, test that the DefaultUDL value from the Registry points to a UDL (Universal Data Link) file that exists.   | <a href="#">SIU-262</a> |

| Test ID | Group    | Tiers | Description   | Reference               |
|---------|----------|-------|---|-------------------------|
| 263     | MyID     | AP    | If MyID is installed, tier is Application Server and configuration option DBTypeAndAuth = SQL Azure with SQL Server Auth (NoAuth), test that file Dal4Net.dll.config exists, contains well-formatted XML, contains the username, but does not contain the cleartext password specified in the credentials for SQL Server Authentication.        | <a href="#">SIU-263</a> |
| 264     | MyID     | AP    | If MyID is installed and tier is Application Server, test that file Dal4Net.dll.config exists, contains well-formatted XML and does not contain log4net section left uncommented for debugging use. If not satisfied, display the outcome as a Performance warning instead of a failure.  | <a href="#">SIU-264</a> |
| 267     | MyID     | AP    | If MyID is installed and tier is Application Server, test that all encrypted private keys and symmetric keys are prefixed in the format "KXX_" in the database; the key names match the latest database key name for MasterCard in the Windows Registry. If not satisfied, display the outcome as a Functionality warning instead of a failure. | <a href="#">SIU-267</a> |
| 268     | MyID     | AP    | If MyID is installed and tier is Application Server, test that the number of encrypted private keys and symmetric keys is correct in the database; the key names match any of the database key names for MasterCard in the Windows Registry.  | <a href="#">SIU-268</a> |
| 269     | Services | DC    | If tier is Domain Controller, test that service "ADWS" (Active Directory Web Services) is installed and running. If not satisfied, display the outcome as a Limited SIU test coverage warning instead of a failure.   | <a href="#">SIU-269</a> |
| 270     | DB       | AP    | If MyID is installed and tier is Application Server, get the current size, unlimited or maximum size, free space (if not unlimited size) and automatic growth of the MyID main database. No test required.  | <a href="#">SIU-270</a> |
| 271     | DB       | AP    | If MyID is installed and tier is Application Server, get the current size, unlimited or maximum size, free space (if not unlimited size) and automatic growth of the MyID archive database. No test required.   | <a href="#">SIU-271</a> |
| 272     | IIS      | WB    | If tier is Web Server, test that the SSL bindings for HTTPS exist, a TCP connection can be established and the SSL protocol is not None, SSL v2 or SSL v3.  | <a href="#">SIU-272</a> |



| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 273     | IIS   | WB    | If tier is Web Server, test that the SSL bindings for HTTPS exist, a TCP connection can be established and the SSL protocol is TLS v1.0, TLS v1.1 or TLS v1.2.  | <a href="#">SIU-273</a> |
| 274     | IIS   | WB    | If tier is Web Server, test that the SSL bindings for HTTP exist, a TCP connection can be established and the SSL protocol is not None, SSL v2, SSL v3, TLS v1.0, TLS v1.1 or TLS v1.2.   | <a href="#">SIU-274</a> |
| 275     | IIS   | WB    | If tier is Web Server, test that SSL is required. If not satisfied, display the outcome as a "Security" warning instead of a failure.   | <a href="#">SIU-275</a> |
| 276     | AD    | DC    | If tier is Domain Controller, test that the COM+ User is not a member of the Domain Admins or the Enterprise Admins domain groups. If not satisfied, display the outcome as a Security warning instead of a failure.  | <a href="#">SIU-276</a> |
| 277     | AD    | DC    | If tier is Domain Controller, test that the IIS User is not a member of the Domain Admins or the Enterprise Admins domain groups. If not satisfied, display the outcome as a Security warning instead of a failure.   | <a href="#">SIU-277</a> |
| 278     | AD    | DC    | If tier is Domain Controller, test that the Web Services User is not a member of the Domain Admins or the Enterprise Admins domain groups. If not satisfied, display the outcome as a Security warning instead of a failure.  | <a href="#">SIU-278</a> |
| 279     | DB    | AP,DB | If tier is Application Server or Database Server, perform SQL query of master database (including Microsoft SQL Azure instances) and test the database edition installed is Enterprise or Standard. If not satisfied, display outcome as an "Untested configuration" warning, instead of a failure. | <a href="#">SIU-279</a> |
| 283     | MyID  | AP    | If MyID is installed and tier is Application Server, test that the MasterCard Entry in the Registry has an 'Enabled' property. Use regedit to view the registry location:<br>HKLM\SOFTWARE\Intercede\Edefice\MasterCard   | <a href="#">SIU-283</a> |
| 284     | MyID  | AP    | If MyID is installed and tier is Application Server, if using any HSM, the subkey contains value "SerialNumber" and has a value; Use regedit to view the registry location:<br>HKLM\SOFTWARE\Intercede\Edefice\MasterCard   | <a href="#">SIU-284</a> |



| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 285     | MyID  | AP    | If MyID is installed and tier is Application Server, test that the number of database keys for MasterCard in the Windows Registry has not reached the maximum supported by MyID. If not satisfied, display the outcome as a Functionality warning instead of a failure. Use regedit to view the registry location: HKLM\SOFTWARE\Intercede\Edefice\MasterCard | <a href="#">SIU-285</a> |
| 286     | MyID  | AP    | If MyID is installed and tier is Application Server, if using an nShield HSM, test that the file %Windir%\System32\CknFast.DLL exists.  | <a href="#">SIU-286</a> |
| 293     | DB    | DB    | If MyID is installed and tier is Database Server, test SQL default schema for the MyID main database for COM+ account user is not "sys".  | <a href="#">SIU-293</a> |
| 294     | DB    | DB    | If MyID is installed and tier is Database Server, test SQL default schema for the MyID archive database for COM+ account user is not "sys".   | <a href="#">SIU-294</a> |
| 295     | IIS   | WB    | If tier is Web Server check edge compatibility has been applied to MyID folder  | <a href="#">SIU-295</a> |
| 296     | MyID  | AP    | Check the version of the OLE DB Driver that is installed.<br>Version 19.0.0.0 or later will pass.   | <a href="#">SIU-296</a> |
| 297     | MyID  | WB,AP | Check TLS 1.2 is enabled and TLS 1.0 is disabled  | <a href="#">SIU-297</a> |
| 299     | MyID  | AP    | Initial Server Check. Check .NET core version on the application server.  | <a href="#">SIU-299</a> |
| 300     | MyID  | WB    | Initial Server Check. Check .NET core version on the web server.  | <a href="#">SIU-300</a> |
| 301     | MyID  | CL,WB | Post-Install. Checks status values of responses to simple unauthenticated web requests to the operator client URL match the expected value.   | <a href="#">SIU-301</a> |
| 303     | MyID  | CL,WB | Post-Install. Checks status values of responses to simple unauthenticated web requests to the rest.core API service match the expected value.   | <a href="#">SIU-303</a> |
| 304     | MyID  | WB,AP | Post-Install. Checks status values of responses to simple unauthenticated web requests to the oauth2 service match the expected value.  | <a href="#">SIU-304</a> |
| 305     | IIS   | WB    | Post-Install. Test the IIS application pool "rest.core" exists and has started.   | <a href="#">SIU-305</a> |
| 307     | IIS   | WB    | Post-Install. If MyID is installed and tier is Web Server, test application pool "web.oauth2" exists and has started.   | <a href="#">SIU-307</a> |
| 308     | MyID  | AP    | Post-Install. If MyID is installed and tier is App Server, check BOL API methods exist.   | <a href="#">SIU-308</a> |

| Test ID | Group | Tiers  | Description   | Reference               |
|---------|-------|--------|---|-------------------------|
| 309     | DB    | DB     | Post-Install. If MyID is installed run DB query, check <code>AuditItemFields</code> table exist.  | <a href="#">SIU-309</a> |
| 310     | AD    | DC     | If tier is Domain Controller, test domain user for Authentication Web service user account exists.  | <a href="#">SIU-310</a> |
| 311     | AD    | DC     | If tier is Domain Controller, test Authentication Web service user account is enabled, not locked out and expiry date is less than or equal to 0.   | <a href="#">SIU-311</a> |
| 312     | AD    | DC     | If tier is Domain Controller, test Authentication Web service user account password will never expire and has not expired.  | <a href="#">SIU-312</a> |
| 313     | AD    | DC     | If tier is Domain Controller, test Authentication Web service user account exists on the domain under a valid organizational unit.  | <a href="#">SIU-313</a> |
| 314     | AD    | DC     | If tier is Domain Controller, test Authentication Web service user account is a member of domain group "Domain Users".  | <a href="#">SIU-314</a> |
| 315     | AD    | AP, WB | If tier is Application Server or Web Server, test Authentication Web service user account is a member of local group "Distributed COM Users".   | <a href="#">SIU-315</a> |
| 316     | AD    | DC     | If tier is Domain Controller, test that the Authentication Web Services User is not a member of the Domain Admins or the Enterprise Admins domain groups.<br><br>If not satisfied, display the outcome as a Security warning instead of a failure.  | <a href="#">SIU-316</a> |
| 317     | MyID  | AP     | If MyID is installed and tier is Application Server, test that the Default Authentication DB UDL value from the Registry points to a UDL (Universal Data Link) file that exists.  | <a href="#">SIU-317</a> |
| 318     | DB    | DB     | If tier is Database Server, test language for COM+ Account user is "us_english".  | <a href="#">SIU-318</a> |
| 319     | DB    | DB     | If MyID is installed and tier is Database Server, test SQL database role membership for MyID main database for COM+ Account user or group includes roles, "db_owner" and "public". Role "public" is a special case and cannot be queried, so it is included by default if the user exists for the database. | <a href="#">SIU-319</a> |
| 320     | DB    | DB     | If MyID is installed and tier is Database Server, test SQL default schema for the MyID main database for COM+ Account user is not "sys".  | <a href="#">SIU-320</a> |
| 321     | MyID  | WB     | Initial Server Check. Check that .NET core was installed after IIS.   | <a href="#">SIU-321</a> |

| Test ID | Group | Tiers | Description   | Reference               |
|---------|-------|-------|---|-------------------------|
| 322     | MyID  | WB    | Server performance will be impacted if PowerShell scripts are required to be signed, CRL Checks have been enabled, but no Internet connection is available.   | <a href="#">SIU-322</a> |
| 323     | MyID  | WB    | If rest.core feature has been installed check it is an IIS Application and IsAlive method on the web service returns true.  | <a href="#">SIU-323</a> |
| 324     | MyID  | WB    | If rest.provision feature has been installed check it is an IIS Application and IsAlive method on the web service returns true.   | <a href="#">SIU-324</a> |
| 325     | MyID  | WB    | If web.oauth2 feature has been installed check it is an IIS Application and IsAlive method on the web service returns true.   | <a href="#">SIU-325</a> |
| 326     | MyID  | WB    | If DC Notification Listener feature has been installed check it is an IIS Application and IsAlive method on the web service returns true or the web service returns 401:Unauthorized (secure by default). | <a href="#">SIU-326</a> |
| 327     | MyID  | WB    | If iOS OTA feature has been installed check it is an IIS Application and IsAlive method on the web service returns true or the web service returns 401:Unauthorized (secure by default).                  | <a href="#">SIU-327</a> |
| 328     | MyID  | WB    | If Credential Web Service feature has been installed check it is an IIS Application and IsAlive method on the web service returns true or the web service returns 401:Unauthorized (secure by default).   | <a href="#">SIU-328</a> |
| 329     | MyID  | WB    | If Device Management API feature has been installed check it is an IIS Application and IsAlive method on the web service returns true or the web service returns 401:Unauthorized (secure by default).    | <a href="#">SIU-329</a> |
| 330     | MyID  | WB    | If MyID Enroll feature has been installed check it is an IIS Application and IsAlive method on the web service returns true or the web service returns 401:Unauthorized (secure by default).              | <a href="#">SIU-330</a> |

## 6.1 Confirmation tests

SIU carries out a series of tests that do not verify that you have configured your system correctly, but confirm that the installation process has worked correctly, or that required services that should be available by default have not been removed.

General confirmation test SIU references: SIU-184, SIU-185, SIU-186, SIU-187, SIU-188, SIU-201, SIU-202, SIU-259, SIU-263, SIU-264, SIU-269, SIU-270, SIU-271, SIU-272, SIU-273, SIU-275, SIU-293, SIU-294.

### 6.1.1 DCOM security settings

SIU references: SIU-189, SIU-190, SIU-191, SIU-192, SIU-193, SIU-194, SIU-195, SIU-196, SIU-197, SIU-198, SIU-199.

You must make sure that the DCOM security settings for the MyID COM+ components on the application server have their authentication level set to Packet Privacy.

To check the authentication level:

1. In Component Services, right-click the COM+ application you want to view and select **Properties** from the pop-up menu.
2. Click the **Security** tab.
3. Make sure the **Authentication level for calls** option is set to **Packet Privacy**.

### 6.1.2 REST-based web services

SIU references: SIU-303, SIU-304, SIU-305, SIU-307.

The MyID Operator Client communicates to the web server using REST-based web services. The installation program sets up the following web services:

- `rest.core` – the web service for operations.
- `web.oauth2` – the authentication web service.

The installation program also sets application pools for these web services.

**Important:** These web services require HTTPS, and will not operate if this is not set up. For information on setting this up, see the *Configuring SSL/TLS (HTTPS)* section in the [Securing Websites and Web Services](#) document.

If you experience any problems with the SIU tests relating to these web services, you can try the following:

- In the Windows Event Viewer application on the web server, check **Windows Logs > Application**.
- In Internet Information Services (IIS) Manager on the web server, check that the relevant application pool exists and has started. Check that the user under which the pool is running is not locked and has the correct password.
- If you still need information, check the `rest.core` or `web.oauth2` logs. For information on configuring logging, see the *MyID REST and authentication web services* section in the [Configuring Logging](#) guide.

### 6.1.3 Application server components for the MyID Operator Client

SIU reference: SIU-308.

The SIU test with ID 308 tests for the existence of component methods that relate to the MyID Operator Client and its web services.

If this test does not pass, check the following:

- In the Windows Event Viewer application on the application server, check **Windows Logs > Application**.
- Check the COM+ settings for the MyID components.

#### 6.1.4 Database installation for the MyID Operator Client

SIU reference: SIU-309.

The SIU test with ID 309 tests specifically for the existence of the `AuditItemFields` table. This table was introduced at MyID 11.6, so will not be visible on any previous version of the database. The existence of this field confirms that the database has been upgraded to a sufficient level to support the initial release of the MyID Operator Client.

If this test does not pass, check the following:

- Check that the MyID server installation on the database tier completed successfully.
- Check the installation history – from the **Reports** category, select **System Status**, then click the Installation History tab.