



MyID
Version 11.4

System Interrogation Utility

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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 and to indicate references to other sections within the current document:
For example:
 - ♦ "Copy the file *before* starting the installation"
 - ♦ "See *Issuing a Card* for further information"
- ***Bold and italic*** 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 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) version SIU-11.0.0 for MyID 11.4.

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

Note: Running the SIU 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 11.4.

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 MyID 11.4. 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.

1.1 Change history

Version	Description
IMP1879-01	Released with SIU-2.0.1000.3. See the readme for details of the changes in this version.
IMP1879-02	Released with SIU-2.0.1000.4. See the readme for details of the changes in this version.
IMP1879-03	Released with SIU-2.0.1000.5. See the readme for details of the changes in this version.
IMP1879-04	Released with SIU-2.0.1000.6. See the readme for details of the changes in this version.
IMP1879-05	Released with SIU-11.0.0. See the readme for details of the changes in this version.
IMP1879-06	Released with MyID 11.1.
IMP1879-07	Released with MyID 11.2.
IMP1879-08	Released with MyID 11.3.
IMP1879-09	Released with MyID 11.4.

1.2 Prerequisites and installation

See the readme provided with the SIU-11.0.0 release.

1.3 Known issues

- **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.

For issues relating to installation or tests supported in this release, see the readme provided with the SIU-11.0.0 release.

2 Running 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-11.0.0 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.
7. Set the **SQL Settings** options:
 - ◆ **DBTypeAndAuth** – 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**.
 - ◆ **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-11.0.0 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) 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)
- ∩ (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 (grey), 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 (grey), 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 MyID 11.4

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 MyID 11.4. All references in the reports to the appropriate section of the core product documentation apply to MyID 11.4.

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, which will perform the following additional steps:
 - a) Changes the PowerShell execution policy for the local machine to `RemoteSigned`.
 - b) Creates registry keys and properties for credential delegation.
 - c) Enables PowerShell remoting.
 - d) Enables Credential Security Support Provider (CredSSP) authentication as server to receive credentials from a remote client computer.
 - e) Appends the domain to the trusted hosts file.

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 [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

- **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 used with a non-default website in Internet Information Services (IIS) which 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

Section	Option	Description	Allowed values	Comments
OperatingMode	Mode	SIU operating mode.	Local, RemoteWithSameCredentials OR RemoteWithDifferentCredentials	This is a mandatory field. 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. 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).
Computers	Clients	Hostname or IP address of each Client computer under test.	String, comma-separated strings, empty string, or \$null	This is a mandatory field if testing locally and this computer is a Client. At least one field from the Computers group is mandatory. Blank fields will cause the test coverage to be reduced significantly.
	WebServers	Hostname or IP address of each Web Server computer under test.	String, comma-separated strings, empty string, or \$null	This is a mandatory field if testing locally and this computer is a Web Server. At least one field from the Computers group is mandatory. Blank fields will cause the test coverage to be reduced significantly.

Section	Option	Description	Allowed values	Comments
	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>
	Databases	Hostname or IP address of each Database computer, cluster, or SQL Azure instance under test.	String, comma-separated strings, empty string, or \$null	<p>This is a mandatory field if testing locally and this computer is a Database.</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>
	DomainControllers	Hostname or IP address of each Domain Controller 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 Domain Controller.</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>

Section	Option	Description	Allowed values	Comments
Users	MyIDComPlusUser	Name of COM+ user (domain account).	String	This is a mandatory field. Specify the user without the domain name.
	IISUser	Name of IIS user (domain account).	String	This is a mandatory field. Specify the user without the domain name.
	WebServiceUser	Name of web service user (domain account).	String	This is a mandatory field. Specify the user without the domain name. If you are testing MyID 10.6 or earlier, specify a dummy user and ignore the associated results, as this user is not relevant.
	InstallationUser	Name of the installation user (domain account).	String	Optional. Specify the user without the domain name. 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.
SQLSettings	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. 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. Blank fields will cause the test coverage to be reduced significantly.
IISSettings	IISProtocol	IIS protocols enabled.	None, HTTPS, HTTPS + HTTP or HTTP	This is a mandatory field.

Section	Option	Description	Allowed values	Comments
	IISWebsite	Name of the website for use with MyID.	String	This is a mandatory field. IIS typically uses <code>Default Web Site</code> .
Ports	SQLPortTCP	Specifies the SQL Server port to use.	Integer	This is a mandatory field. Defaults to 1433.
	IISPortHTTP	Specifies the IIS Server port for HTTP.	Integer	This is a mandatory field. Defaults to 80.
	IISPortHTTPS	Specifies the IIS Server port for HTTPS.	Integer	This is a mandatory field. Defaults to 443.
Output	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. All tests will be executed if set to All. 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.

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.

6 Description of Derived Tests

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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
8	OS	--,WB,AP,DB,DC	If tier is not Client, test the operating system installed is Windows Server 2012 R2 or Windows Server 2016.	Installation and Configuration Guide, section 3.2.2 Operating systems (MyID server)
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 Microsoft SQL Server 2012, Microsoft SQL Server 2014, Microsoft SQL Server 2016 or Microsoft SQL Azure.	Installation and Configuration Guide, section 3.2.3 Database (MyID server)
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 Microsoft SQL Server 2012 (SP4), Microsoft SQL Server 2014 (SP2-CU14), Microsoft SQL Server 2016 (SP2-CU3) or Microsoft SQL Azure. If not satisfied, display outcome as an "Untested configuration" warning, instead of a failure.	Installation and Configuration Guide, section 3.2.3 Database (MyID server)
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.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)
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.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)
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.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)
15	HW	CL,--,--,--,--	If tier is Client, get a list of all local disks and the free space in gigabytes available. No test required.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)
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.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)
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.	Installation and Configuration Guide, section 3.3.1 Hardware requirements (Client workstation)
18	OS	CL,--,--,--,--	If tier is Client, test the operating system installed is Windows 7 SP1 (32-bit or 64-bit), Windows 8.1, or Windows 10 (32-bit or 64-bit) or Windows 10 Anniversary Update (if build number equals 10586 or is greater than or equal to 14393). If not satisfied, display outcome as an "Untested Configuration" warning, instead of a failure.	Installation and Configuration Guide, section 3.3.2 Operating systems (Client workstation)
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.	Installation and Configuration Guide, section 3.3.3 Internet Explorer (Client workstation)
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.	Installation and Configuration Guide, section 3.3.3 Internet Explorer (Client workstation)

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 3.3.3 Internet Explorer (Client workstation)
23	NW	CL,WB,AP,DB,DC	On all tiers, test that each machine successfully performs an ICMP ping test to 0..n Clients.	Installation and Configuration Guide, section 3.6 Network
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.	Installation and Configuration Guide, section 3.6 Network
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.	Installation and Configuration Guide, section 3.6 Network
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).	Installation and Configuration Guide, section 3.6 Network
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.	Installation and Configuration Guide, section 3.6 Network
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.	Installation and Configuration Guide, section 3.6 Network
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).	Installation and Configuration Guide, section 3.6 Network
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).	Installation and Configuration Guide, section 3.6 Network
31	AD	CL,WB,AP,DB,DC	On all tiers, test if tier is on domain.	Installation and Configuration Guide, section 3.9 Directories

ID	Group	Tiers	Description	Reference
32	AD	--,--,--,--,DC	If tier is Domain Controller, test if service "Active Directory Domain Services" is installed and running.	Installation and Configuration Guide, section 3.9 Directories
33	OS	CL,WB,AP,DB,DC	On all tiers, get local machine's culture name. No test required.	Installation and Configuration Guide, section 3.1 Prerequisites
34	OS	CL,WB,AP,DB,DC	On all tiers, get local machine's long date format pattern. No test required.	Installation and Configuration Guide, section 3.1 Prerequisites
35	OS	CL,WB,AP,DB,DC	On all tiers, get local machine's short date format pattern. No test required.	Installation and Configuration Guide, section 3.1 Prerequisites
36	OS	CL,WB,AP,DB,DC	On all tiers, get local machine's language tag. No test required.	Installation and Configuration Guide, section 3.1 Prerequisites
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.	Installation and Configuration Guide, section 3.1 Prerequisites
38	.NET	--,--,--,--,--	If tier is Database Server, test .NET Framework version installed includes 3.5.	Installation and Configuration Guide, section 3.1 Prerequisites
40	AD	--,--,--,--,DC	If tier is Domain Controller, test membership of domain group "Domain Users" contains this user.	Installation and Configuration Guide, section 4.1.1 Installation account
41	AD	--,WB,AP,--,--	If tier is Application Server or Web Server, test membership of local group "Administrators" contains this user.	Installation and Configuration Guide, section 4.1.1 Installation Account
42	AD	--,WB,AP,--,--	If tier is Application Server or Web Server, test impersonation of client after authentication for this user or group.	Installation and Configuration Guide, section 4.1.1 Installation Account

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 4.1.1 Installation Account
44	DB	--,--,DB,--	If tier is Database Server, test SQL Server role privileges is 'dbcreator' for this user or group. If this test fails, try adding the <code>InstallationUser</code> to the <code>[Users]</code> section of the configuration file. See section 5, Configuration File Format .	Installation and Configuration Guide, section 4.1.1 Installation Account
45	AD	--,--,--,DC	If tier is Domain Controller, test domain user for MyID COM+ account exists.	Installation and Configuration Guide, section 4.1.2 MyID COM+ account
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.	Installation and Configuration Guide, section 4.1.2 MyID COM+ account
47	AD	--,--,--,DC	If tier is Domain Controller, test MyID COM+ account password will never expire and has not expired.	Installation and Configuration Guide, section 4.1.2 MyID COM+ account
48	AD	--,--,--,--	If tier is Domain Controller, test MyID COM+ account exists on the domain under organisational unit "Service Accounts".	Installation and Configuration Guide, section 4.1.2 MyID COM+ account
49	AD	--,--,--,DC	If tier is Domain Controller, test MyID COM+ account is a member of domain group "Domain Users".	Installation and Configuration Guide, section 4.1.2 MyID COM+ account
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".	Installation and Configuration Guide, section 4.1.2 MyID COM+ account

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 4.1.2 MyID COM+ account
53	AD	--,--,--,--,DC	If tier is Domain Controller, test IIS User domain user for IIS user account exists.	Installation and Configuration Guide, section 4.1.3 IIS user account
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.	Installation and Configuration Guide, section 4.1.3 IIS user account
55	AD	--,--,--,--,DC	If tier is Domain Controller, test IIS User account password will never expire and has not expired.	Installation and Configuration Guide, section 4.1.3 IIS user account
56	AD	--,--,--,--,--	If tier is Domain Controller, test IIS User account exists on the domain under organisational unit "Service Accounts".	Installation and Configuration Guide, section 4.1.3 IIS user account
57	AD	--,--,--,--,DC	If tier is Domain Controller, test IIS User account is a member of domain group "Domain Users".	Installation and Configuration Guide, section 4.1.3 IIS user account
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".	Installation and Configuration Guide, section 4.1.3 IIS user account
59	AD	--,--,--,--,DC	If tier is Domain Controller, test domain user for Web service user account exists.	Installation and Configuration Guide, section 4.1.4 Web service user account

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 4.1.4 Web service user account
61	AD	--,--,--,--,DC	If tier is Domain Controller, test Web service user account password will never expire and has not expired.	Installation and Configuration Guide, section 4.1.4 Web service user account
62	AD	--,--,--,--,--	If tier is Domain Controller, test Web service user account exists on the domain under organisational unit "Service Accounts".	Installation and Configuration Guide, section 4.1.4 Web service user account
63	AD	--,--,--,--,DC	If tier is Domain Controller, test Web service user account is a member of domain group "Domain Users".	Installation and Configuration Guide, section 4.1.4 Web service user account
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".	Installation and Configuration Guide, section 4.1.4 Web service user account
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.	Installation and Configuration Guide, section 4.2.4 Launch and activation permissions
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.	Installation and Configuration Guide, section 4.2.4 Launch and activation permissions
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.	Installation and Configuration Guide, section 4.2.4 Launch and activation permissions

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 4.2.4 Launch and activation permissions
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.	Installation and Configuration Guide, section 9.1 Windows ASP limits
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.	Installation and Configuration Guide, section 9.1 Windows ASP limits
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.	Installation and Configuration Guide, section 4.3.1 Component transaction timeout
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.	Installation and Configuration Guide, section 4.3.2 MSDTC security configuration
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.	Installation and Configuration Guide, section 4.3.2 MSDTC security configuration
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.	Installation and Configuration Guide, section 4.3.3 Windows Firewall settings
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.	Installation and Configuration Guide, section 4.3.3 Windows Firewall settings

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.	Installation and Configuration Guide, section 9.2 IIS server caching
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.	Installation and Configuration Guide, section 9.2 IIS server caching
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.	Installation and Configuration Guide, section 4.4 Temporary folders for remote connection
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.	Installation and Configuration Guide, section 4.5 Setting up the database
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.	Installation and Configuration Guide, section 4.5 Setting up the database
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.	Installation and Configuration Guide, section 4.5 Setting up the database
97	DB	--,--,DB,--	If tier is Database Server, test SQL Server role privileges includes either "dbcreator" or "sysadmin" for the installation user.	Installation and Configuration Guide, section 4.5.1 Additional database configuration considerations

ID	Group	Tiers	Description	Reference
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)".	Installation and Configuration Guide, section 4.5.1 Additional database configuration considerations
99	DB	--,--,DB,--	If tier is Database Server, get if service "SQL Server Browser" is running. No test required.	Installation and Configuration Guide, section 4.5.1 Additional database configuration considerations
100	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Application Development*.NET Extensibility 4.5" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
101	RF	--,--,--,--,--	If tier is Database Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature ".NET Framework 3.5 Features*.NET Framework 3.5 (includes .NET 2.0 and 3.0)" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
102	RF	--,WB,AP,--,--	If tier is Web Server, Application Server or Database Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature ".NET Framework 4.5 Features*.NET Framework 4.5" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
103	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\ASP" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
104	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2, check for ASP.NET 4.5 or greater is installed. If OS is Windows Server 2016 check for ASP.NET 4.6 or greater is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
105	RF	--,--,AP,--,--	If tier is Application Server and OS is Windows Server 2012 R2, test the Role and Feature "Application Server\COM+ Network Access" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles

ID	Group	Tiers	Description	Reference
106	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature Windows "Process Activation Service\Configuration APIs" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
107	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Common HTTP Features\Default Document" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
108	RF	--,--,AP,--,--	If tier is Application Server and OS is Windows Server 2012 R2, test the Role and Feature "Application Server\Distributed Transactions" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
109	RF	--,WB,AP,DB,--	If tier is Web Server, Application Server or Database Server and OS is Windows Server 2012 R2, test the Role and Feature "User Interfaces and Infrastructure\Graphical Management Tools and Infrastructure" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
110	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Common HTTP Features\HTTP Errors" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
111	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Health and Diagnostics\HTTP Logging" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
112	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\ISAPI Extensions" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
113	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Application Development\ISAPI Filters" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles

ID	Group	Tiers	Description	Reference
114	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Management Tools\IIS Management Console" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
115	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Management Tools\IIS Management Scripts and Tools" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
117	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Windows Process Activation Service\Process Model" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
118	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Security" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
119	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Common HTTP Features\Static Content" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
120	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Web Server (IIS)\Web Server\Performance\Static Content Compression" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
121	RF	--,WB,AP,DB,--	If tier is Web Server, Application Server or Database Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "File and Storage Services\Storage Services" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
122	RF	--,WB,AP,DB,--	If tier is Web Server, Application Server or Database Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature ".NET Framework 4.5 Features\WCF Services\TCP Port Sharing" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles

ID	Group	Tiers	Description	Reference
123	RF	--,--,--,DB,--	If tier is Database Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Windows PowerShell\Windows PowerShell 2.0 Engine" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
124	RF	--,WB,AP,DB,--	If tier is Web Server, Application Server or Database Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "Windows PowerShell\Windows PowerShell 4.0" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
125	RF	--,WB,AP,--,--	If tier is Web Server or Application Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature "WoW64 Support" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
126	DB	--,--,--,DB,--	If tier is Database Server, test language for COM+ account user is "us_english".	Installation and Configuration Guide, section 4.5.1 Additional database configuration considerations
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.	Advanced Configuration Guide, section 2.4 MyID and SQL Server Permissions
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.	Advanced Configuration Guide, section 2.4 MyID and SQL Server Permissions
140	.NET	CL,--,--,--	If tier is Client, test .NET Framework version installed includes 4.8 or above.	Installation and Configuration Guide, section 8.1 Installing MyID Desktop

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 4.8.1 Adding the MyID website to the Trusted sites or Local intranet group
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 "HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\n", where n =1 for Local Intranet, n = 2 for Trusted Sites.	Installation and Configuration Guide, section 4.8.1 Adding the MyID website to the Trusted sites or Local intranet group
146	IE	CL,--,--,--,--	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 "HKCU:\Software\Microsoft\Internet Explorer\New Windows" and registry key "x", where x is Web Server, under path "HKCU:\Software\Microsoft\Internet Explorer\New Windows\Allow", respectively.	Installation and Configuration Guide, section 4.8.2 Disabling the pop-up blocker
147	IE	CL,--,--,--,--	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 "HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\n", where n =1 for Local Intranet, n=2 for Trusted Sites. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.	Installation and Configuration Guide, section 4.8.3 Exceptions
148	IE	CL,--,--,--,--	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 "HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\n", where n =1 for Local Intranet, n=2 for Trusted Sites. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.	Installation and Configuration Guide, section 4.8.3 Exceptions
149	IE	CL,--,--,--,--	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 "HKCU:\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing". If not satisfied, display outcome as a "Performance" warning, instead of a failure.	Installation and Configuration Guide, section 4.8.4 Performance improvements for client PCs without internet access

ID	Group	Tiers	Description	Reference
150	IIS	--,WB,--,--	If tier is Web Server, test IIS website name is correct and the website is started.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	Installation and Configuration Guide, section 3.6 Network
153	DB	--,--,DB,--	If tier is Database Server, test that service "MSSQLSERVER" (SQL Server (MSSQLSERVER)) is installed and running.	System Interrogation Utility, section 6 Description of derived tests (SQL Server)
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions

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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
165	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
166	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions

ID	Group	Tiers	Description	Reference
167	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
168	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
169	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
170	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
171	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
172	COM	--,--,AP,--,--	If MyID is installed, tier is Application Server and a COM+ application has both roles (i.e. 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.	Advanced Configuration Guide, section 2.5 MyID and COM+ permissions
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
186	MyID	--,--,AP,--,--	If MyID is installed and tier is Application Server, get MyID installation type (ENT/PIV) from Registry.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
187	MyID	--,WB,--,--,--	If MyID is installed and tier is Web Server, get MyID installation type (ENT/PIV) from web files installed.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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).	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (System)
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.	System Interrogation Utility, section 6 Description of derived tests (SIU)
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.	System Interrogation Utility, section 6 Description of derived tests (SIU)
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.	Installation and Configuration Guide, section 3.2.1 Hardware requirements (MyID server)
204	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
205	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
217	AD	--,--,DB,--	If tier is Database Server, test membership of local group Administrators contains this user. If not satisfied, display outcome as a "Functionality" warning, instead of a failure.	Installation and Configuration Guide, section 4.1.1 Installation Account
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".	Installation and Configuration Guide, section 4.3.2 MSDTC security configuration
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
233	IIS	--,WB,--,--,--	If MyID is installed and tier is Web Server, test application pool "MyIDPoolClassic" exists and has started.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
234	IIS	--,WB,--,--,--	If MyID is installed and tier is Web Server, test application pool "MyIDWebService" exists and has started.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	Installation and Configuration Guide, section 3.6 Network
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.	Installation and Configuration Guide, section 3.6 Network

ID	Group	Tiers	Description	Reference
237	RF	--,--,AP,--,--	If tier is Application Server and OS is Windows Server 2012 R2, test the Role and Feature "Application Server\.NET Framework 4.5" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
238	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, test the Role and Feature ".NET Framework 4.5 Features\ASP.NET 4.5" is installed.	Installation and Configuration Guide, section 4.6 Setting up server roles
239	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
240	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
241	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
242	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
243	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
244	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles

ID	Group	Tiers	Description	Reference
245	RF	--,WB,--,--,--	If tier is Web Server and OS is Windows Server 2012 R2 or Windows Server 2016, 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.	Installation and Configuration Guide, section 4.6 Setting up server roles
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" ("3217b7cc8b8221c287dc1d081eb234274a189a71cdbae6dfcc416d89ea2a00c8")	Installation and Configuration Guide, section 4.3.6 ADO and MSADC requirements on the application server
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" ("212708c45780a94623c8477f9eadba732b3a19f90cfc3b1896b28445f1e5ce61")	Installation and Configuration Guide, section 4.3.6 ADO and MSADC requirements on the application server
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.	Installation and Configuration Guide, section 8.2.2 Communication between MyID Desktop and the MyID server
249	IIS	CL,WB,--,--,--	If MyID is installed and tier is Client or Web Server, request status codes for all Web Servers to path "MyIDDataSource" using HTTPS or HTTP URL (according to configuration) and test that an invalid/missing response (status code not 200) is not returned for each.	Installation and Configuration Guide, section 8.2.2 Communication between MyID Desktop and the MyID server
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.	Installation and Configuration Guide, section 8.2.3 Server location
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.	Installation and Configuration Guide, section 8.2.4 One-way SSL/TLS

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of Derived Tests (MyID installation)
258	IIS	--,WB,--,--,--	If tier is Web Server, test that service "W3SVC" (World Wide Web Publishing Service) is installed and running.	System Interrogation Utility, section 6 Description of derived tests (IIS)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)

ID	Group	Tiers	Description	Reference
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.	Installation and Configuration Guide, section 4.3.3 Windows Firewall settings
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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.	System Interrogation Utility, section 6 Description of derived tests (SIU)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of derived tests (SQL Server)
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.	System Interrogation Utility, section 6 Description of derived tests (SQL Server)
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.	System Interrogation Utility, section 6 Description of derived tests (IIS)
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.	System Interrogation Utility, section 6 Description of derived tests (IIS)
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.	System Interrogation Utility, section 6 Description of derived tests (IIS)
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.	System Interrogation Utility, section 6 Description of derived tests (IIS)
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.	System Interrogation Utility, section 6 Description of derived tests (System)
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.	System Interrogation Utility, section 6 Description of derived tests (System)

ID	Group	Tiers	Description	Reference
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.	System Interrogation Utility, section 6 Description of derived tests (System)
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.	Installation and Configuration Guide, section 3.2.3 Database (MyID server)
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: HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Intercede\Edefice\MasterCard	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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: HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Intercede\Edefice\MasterCard	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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: HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Intercede\Edefice\MasterCard	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
286	MyID	--,--,AP,--,--	If MyID is installed and tier is Application Server, if using an nCipher HSM, test that the file %Windir%\SYSWOW64\CknFast.DLL exists.	System Interrogation Utility, section 6 Description of derived tests (MyID installation)
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".	System Interrogation Utility, section 6 Description of derived tests (SQL Server)
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".	System Interrogation Utility, section 6 Description of derived tests (SQL Server)

ID	Group	Tiers	Description	Reference
295	IIS	--,WB,--,--,--	If tier is Web Server check edge compatibility has been applied to MyID folder	System Interrogation Utility, section 6 Description of derived tests (IIS)
296	MyID	--,--,AP,--,--	Ensure version 18.1.0.0 of the OLE DB Driver is installed	Installation and Configuration Guide, section 4.5 Setting up the database
297	MyID	--,WB,AP,--,--	Check TLS 1.2 is enabled and TLS 1.0 is disabled	System Interrogation Utility, section 6 Description of derived tests (MyID installation)