eIDAS-Node Demo Tools Installation and Configuration Guide v2.7

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Document history

Version	Date	Modification reason	Modified by
1.0	06/10/2017	Origination	DIGIT
2.0	11/04/2018	Rewritten for version 2.0 to take account of architectural changes with Demo Specific Connector and Demo Specific Proxy Service as well as Demo-SP, Demo IdP.	DIGIT
2.1	09/07/2018	Reuse of document policy updated and version changed to match the corresponding Release. Minor document clarifications made.	DIGIT
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2.3	20/06/2019	Updates related to Jcache Ignite implementation. Other topics that are necessary to migrate.	DIGIT
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1 Introduction

This document is intended for a technical audience consisting of developers, administrators and those requiring detailed technical information on how to configure, build and deploy the eIDAS-Node application.

The document describes the installation and configuration settings for the Demo Tools (SP and IdP) supplied with the package for basic testing.

1.1 Purpose

The purpose of this document is to describe how to quickly install the Demo tools provided in the Integration Package (Service Provider (SP), Identity Provider (IdP), Specific Connector and Specific Proxy Service) for testing purposes.

Please note that this is not a guide for your national infrastructure, for implementation options please read the *eIDAS-Node National IdP and SP Integration Guide*.

1.2 Document structure

This document is divided into the following sections:

- Chapter 1 − *Introduction*: this section.
- Chapter 2 − *Demo Products overvie*w provides information on the deliverable including the package, the modules and dependencies.
- Chapter 3 ─ *Setup configuration directories* describes the setup configuration directories and environment variables.
- Chapter 4 ─ *Setting up the Demo Service Provider* provides information on the Demo SP properties to enable set up.
- Chapter 5 ─ *Setting up the Demo Identity Provider* provides information on the Demo IdP properties to enable set up.
- Chapter 6 ─ *Setting up the Demo MS-Specific Connector* provides information on the Demo MS-Specific Connector properties to enable set up.
- Chapter 7 ─ *Setting up the Demo MS-Specific Proxy Service* provides information on the Demo MS-Specific Proxy Service properties to enable set up.
- Chapter 8 ─ *Additional attributes* describes how to add attributes.
- Chapter 9 ─ *Preparing the installation* for this information you should refer to the eIDAS-Node Installation and Configuration Guide.
- Chapter 10 ─ *Building and deploying the software* describes the steps to build and then to deploy the software on the supported servers.
- Chapter 11 ─ *Verifying the installation* shows the final structure of your application server relevant directories.
- Chapter 12 ─ *Simple protocol* describes the implementation of Simple Protocol for communication between SP and Specific Connector, and Specific Proxy Service and IdP
- Chapter 13 ─ *Demo Tools Migration* provides a resume of the topics to be aware in the migration to 2.5 version from previous 2.6.

1.3 Other technical reference documentation

We recommend that you also familiarise yourself with the following eID technical reference documents which are available on **Digital Home > eID**

- *eIDAS-Node Installation, Configuration and Integration Quick Start Guide* describes how to quickly install a Service Provider, eIDAS-Node Connector, eIDAS-Node Proxy Service and IdP from the distributions in the release package. The distributions provide preconfigured eIDAS-Node modules for running on each of the supported application servers.
- *eIDAS-Node Installation and Configuration Guide* describes the steps involved when implementing a Basic Setup and goes on to provide detailed information required for customisation and deployment.
- *eIDAS-Node National IdP and SP Integration Guide* provides guidance by recommending one way in which eID can be integrated into your national eID infrastructure.
- *eIDAS-Node and SAML* describes the W3C recommendations and how SAML XML encryption is implemented and integrated in eID. Encryption of the sensitive data carried in SAML 2.0 Requests and Assertions is discussed alongside the use of AEAD algorithms as essential building blocks.
- *eIDAS-Node Error and Event Logging* provides information on the eID implementation of error and event logging as a building block for generating an audit trail of activity on the eIDAS Network. It describes the files that are generated, the file format, the components that are monitored and the events that are recorded.
- *eIDAS-Node Security Considerations* describes the security considerations that should be taken into account when implementing and operating your eIDAS-Node scheme.
- *eIDAS-Node Error Codes* contains tables showing the error codes that could be generated by components along with a description of the error, specific behaviour and, where relevant, possible operator actions to remedy the error.

2 Demo Products overview

This section provides information on the deliverable including the integration package, the modules and dependencies.

2.1 Integration package

The demo products deliverable consists of the following files:

- SP.war
- IdP.war
- SpecificConnector.war
- SpecificProxyService.war

These are web applications that can be deployed in most available Java web containers.

2.2 Modules

The software is composed of several modules. This section describes the binaries and source code to be installed plus the configuration files.

Table 1: List of modules

Module Name	Folder	Description
Parent	EIDAS-Parent	Module containing a consolidated and consistent location of the libraries and their version number to be used across the different modules.
Light Commons	EIDAS-Light-Commons	Light Common application component and utility classes used for implementing as basis for the EIDAS-Commons and MS Specific Connector and MS Specific Proxy Service modules.
Simple Protocol	EIDAS-SimpleProtocol	Simple Protocol implementation to demonstrate a MS-Specific protocol between SP and Specific-Connector and between IdP and Specific Proxy Service. **Not to be used in production**.
Commons	EIDAS-Commons	Common Applications components and utility classes for implementing functionality of authentication service.
JCache-Dev	EIDAS-JCache-Dev	Common code for Guava non-distributed JCache implementations
JCache-Dev-Specific-Communication	EIDAS-JCache-Dev-Specific-Communication	Adapts the implementation of Guava non-distributed maps to JCache used in eIDAS-Node MS specific communication caches.
JCache-Ignite	EIDAS-JCache-Ignite	Common code for of Ignite JCache implementations

Module Name	Folder	Description
JCache-Ignite-Specific-Communication	EIDAS-JCache-Ignite-Specific-Communication	Implementation of Ignite JCache for the eIDAS-Node MS specific communication caches
Specific Communication Definition	EIDAS-SpecificCommunicationDefinition	The exchange definition (interfaces) and implementation used to formalise the exchange definition between the Node and the Specific module.
MS Specific Protocol	EIDAS-SimpleProtocol	Module that provides the code to create simple protocol request and response used between the SP and Specific Connector and between IdP and Specific Proxy. Please see appendix for further details. **Not to be used in production**
MS Specific Connector	EIDAS-SpecificConnector	Demo implementation of Member State (MS) specific connector module. **Not to be used in production**.
MS Specific Proxy Service	EIDAS-SpecificProxyService	Demo implementation of Member State (MS) specific Proxy Service module. **Not to be used in production**
Updater	EIDAS-UPDATER	Module used to change configuration of a running eIDAS-Node in testing environment. (To enable, web.xml must be updated.) **Not to be used in production**
Service provider	EIDAS-SP	Demo implementation of Service Provider module. **Not to be used in production**
Identity provider	EIDAS-IdP-1.0	Sample of Identity Provider module. **Not to be used in production**
Basic Setup configuration	EIDAS-Config	Sample configuration as in 12.2.

The figure below shows the dependencies between the installed modules. Note that the modules shown in red are labelled 'DO NOT USE' in the legend, this means use only as samples for demonstration purposes to show that the eIDAS-Node is working, do not use in production. Furthermore, several security vulnerabilities exist and deploying 'as is' in production carries significant risks.

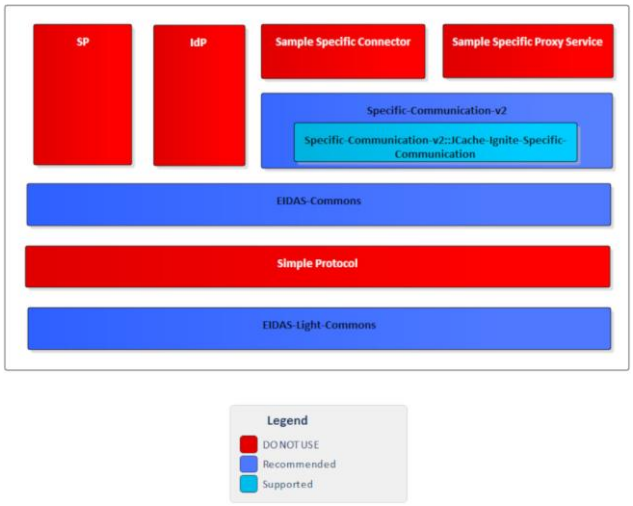

Figure 1: Dependencies between the installed modules

3 Setup configuration directories

This section describes the setup configuration directories and environment variables.

There are five different environment variables used to locate the Demo Tools (Demo-SP, Demo IdP, Demo Specific Connector and Demo Specific Proxy Service) directories of configuration files. These can be defined as OS environment variables or setting it to the runtime environment (by –D switch to JVM or on the AS admin console).

Table 2: Setup configuration directories

Environment variable	Used in	Example target configuration directory
$SP_CONFIG_REPOSITORY	spEnvironmentContext.xml	file:/C:/PGM/projects/configEidas/sp/
$SPECIFIC_CONNECTOR_CONFIG_REPOSITORY	specificConnectorApplicationContext.xml	file:/C:/PGM/projects/configEidas/specificConnector/
$SPECIFIC_PROXY_SERVICE_CONFIG_REPOSITORY	specificProxyServiceEnvironmentContext.xml	file:/C:/PGM/projects/configEidas/specificProxyService/
$IDP_CONFIG_REPOSITORY	idpEnvironmentContext.xml	file:/C:/PGM/projects/configEidas/idp/

By default, OS environment variables or JVM command line arguments (-D option) must be set in order to specify the location of configuration files.

It is possible to change or hardcode these variables in the following files:

- spEnvironmentContext.xml
- specificConnectorEnvironmentContext.xml
- specificProxyServiceEnvironmentContext.xml
- idpEnvironmentContext.xml
- environmentContext.xml

Please look inside these files to see how it is done.

4 Setting up the Demo Service Provider

This section provides information on the Demo SP properties to enable set up.

The Demo Service Provider (SP) can be used to simulate an MS SP requesting authentication. It works with the default MS-Specific-Connector part using the simple protocol language.

The Basic Setup provides a preconfigured version of Demo Service Provider, however you may need to fine-tune some options.

The Service Provider *sp.properties* configuration details are described in the following table. The location of this file must be set by the SP_CONFIG_REPOSITORY environment variable or command line argument.

Table 3: Service Provider Properties

Key	Description
provider.name	Provider Name for this Service Provider
sp.return	URL used when the eIDAS-Node Connector finishes the process. This must be the value of the machine running the Service Provider, its format is *http://sp.ip.address:sp.port.number/sp.deployment.name/ReturnPage.*

The following table describes the available eIDAS-Node for this Service Provider.

Table 4: Available eIDAS-Node for Service Provider

Key	Description
country.number	The number of possible eIDAS-Nodes that can communicate with this SP
countryX.name	The name of the eIDAS-Node X(= positive integer)
countryX.url	The URL for the eIDAS-Node X. This must be the value of the machine running the eIDAS-Node using the format:*http://node.ip.address:node.port.number/node.deployment.name/* This URL is used by the SP to send its request.

5 Setting up the Demo Identity Provider

This section provides information on the Demo IdP properties to enable set up.

The Demo Identity Provider (IdP) can be used to simulate an MS IdP requesting authentication. It works with the default MS-Specific-Proxy-Service part using the simple protocol language.

In order to proceed with the Basic Setup, you may need to modify the configuration of the Demo Identity Provider.

The user.properties holds the credentials for citizens who are able to log in. The format is: <*username*>=<*password*>.

The *idp.properties* is used by the IdP to provide the attribute values in the format: <*username*>.<*attributeName*>=<*attributeValue*>.

Table 5: Sample of user.properties content

Key	Description
myUser=myPassword	A sample username and password
myUser.LegalName=my legal name	A sample attribute definition

The *idp.properties* holds configuration parameters about the application. The location of this file must be set by the IDP_CONFIG_REPOSITORY environment variable or command line argument.

Table 6: Identity Provider Properties

Key	Description
idp.issuer	Issuer name for the IdP.

6 Setting up the Demo MS-Specific Connector

This section provides information on the Demo MS-Specific Connector properties to enable set up.

The eIDAS-Node integration package contains a Demo Member State Specific Connector part that is aligned with the use of Demo SP.

There are some configuration items that might need to be customised according to the test environment.The configuration file name is *specificConnector.xml,* and is located by SPECIFIC_CONNECTOR_CONFIG_REPOSITORY environment variable or command line argument.

Table 7: Specific Connector part properties

Key	Description
issuer.name	Name of the issuer. Responses sent will have this value as issuer.
distributedMapsSpecificConnector	Boolean value (true | false), which indicates if the application will activate distributed maps feature, necessary if clusters are used.
specific.connector.request.url	The URL of the Node to send the binary light token related to the Light Request.
relaystate.randomize.null	Boolean value (true | false), to activate or de-activate the behaviour of populating a null relayState with a random value.

7 Setting up the Demo MS-Specific Proxy Service

This section provides information on the Demo MS-Specific Proxy Service properties to enable set up.

The eIDAS-Node integration package contains a Demo Member State Specific Proxy Service part that is aligned with the use of Demo IdP.

There are some configuration items that might need to be customised according to the test environment. The configuration file name is *specificProxyService.xml*, and is located by SPECIFIC_PROXY_SERVICE_CONFIG_REPOSITORY environment variable or command line argument.

Table 8: Specific part properties

Key	Description
issuer.name	Name of the issuer for the IdP. Responses sent will have this value as issuer.
distributedMapsSpecificProxyService	Boolean value (true | false), which indicates if the application will activate distributed maps feature, to be used in cluster mode.
idp.url	URL to where the MS request will be sent.
specific.proxyservice.idp.response.service.url	URL to where the MS Specific Proxy Service can receive the response from the Demo IdP. It is sent in the request to the IdP.
ask.consent.request	Boolean value (true | false), which indicates if the application will activate the consent pages for the request. If set to "true", the Consent Page will be displayed to the user when processing the request from the eIDAS-Node Connector. Attributes without consent will be removed from the response.
ask.consent.response	Boolean value (true | false), which indicates if the application will activate the consent pages for the response. If set to "true", the Value Consent Page (CV) will be displayed before sending the response to the eIDAS-Node Connector. The user is able to cancel the forwarding of authentication data, resulting in an authentication failure.
ask.consent.response.show.only.eidas.attributes	Boolean value (true | false), which indicates if the application will activate the display of the response's attribute names. Depends on the activation of ask.consent.response If set to "true" only the Core eIDAS attributes/values will be displayed. On "false", the Value Consent Page (CV) will display all the Response

Key	Description
	attributes/values, including additional (specified in XML file) ones.
ask.consent.response.show.attribute.values	Boolean value (true | false), which indicates if the application will activate the display of the response's attribute values. Depends on the activation of ask.consent.response If set to "true", the Value Consent Page (CV) will display attribute names and values for the Response, "false" will result in attribute names only.
consent.Request.LightToken.Secret	Secret to be used in the request consent.
consent.Request.LightToken.Algorithm	Digest Algorithm for the request consent
consent.Response.LightToken.Secret	Secret to be used in the response consent
consent.Request.LightToken.Algorithm	Digest Algorithm for the response consent
default.specific.proxyservice.idp.response.service.url	URL where the MS Specific Proxy Service can receive the response from the Demo IdP. It is sent in the request to the IdP when specific modules are included in the Node as JAR.
specific.proxyservice.response.url	The URL of the Node to send the binary light token related to the Light Response.
relaystate.randomize.null	Boolean value (true | false), to activate or de-activate the behaviour of populating a null relayState with a random value.

8 Additional attributes

This section describes how to add attributes.

To add additional attributes, use the files named *additional-attributes.xml*, located in the environment variables:

- $SPECIFIC_CONNECTOR_CONFIG_REPOSITORY
- $SPECIFIC_PROXY_SERVICE_CONFIG_REPOSITORY

or by command line argument. The file *eidas-attributes.xml* should remain unchanged.

The following table contains the additional attribute keys that need to be present to add an additional attribute.

Table 9: Additional attributes

Key	Description
1.NameUri	URI of the attribute.
1.FriendlyName	Friendly name of the attribute.
1.PersonType	PersonType, either natural or legal, corresponding to the Natural and Legal Persons
1.Required	If the attribute is to be set as required.
1.XmlType.NamespaceUri	The additional attribute namespace URI.
1.XmlType.LocalPart	The additional attribute local part.
1.XmlType.NamespacePrefix	The additional attribute's namespace prefix.
1.AttributeValueMarshaller	The additional attribute's namespace value marshaller.

To add a second attribute, you will need to increment the prefix number (i.e. the additional attribute would be prefixed "2" and so on).

Also, the same has to be done in the eIDAS-Node configuration file for these additional attributes to be recognised.

9 Preparing the installation

For instructions on how to prepare the servers: Tomcat, WildFly, WebLogic or WebSphere before deploying the Demo Tools please refer to the *eIDAS-Node Installation and Configuration Guide*.

10 Building and deploying the software

This section describes the steps to build and then to deploy the software on the supported servers.

The project build files are in **Maven3** format, so you need to install Maven. Download instructions are provided at http://maven.apache.org/run-maven/index.html). Recommended versions of Maven are 3.3.9 and above. Lower versions can result in exceptions.

There are two ways to build the binaries from sources:

- **Parent build**: the *pom.xml* file in the EIDAS-Parent module is a common reference for all dependent module/external Maven artefact versions, and able to build all binaries related to EidasNode and/or Demo Tools

  There are various profiles to help tailoring the build to one's particular needs: these can be split into two main categories.
  First: we need only one profile just for WebLogic application server named "weblogic"
  Second: two profiles related to the scope of modules to be build, specifically NodeOnly (this is active by default,) and DemoToolsOnly.

  For instance, issuing Maven "install" command with the appropriate activation profile (e.g. for WebLogic: -P weblogic,NodeOnly,DemoTools) will result in a full build.

- **Module-based build**: it is possible to build the artefacts one by one, which can be helpful if there is a need to build just one module. In this case please don't forget the dependencies between them. There is a certain order that needs to be followed.

The next sections detail the above two methods for supported application servers.

10.1 Tomcat v9.0.x server deployment

You must compile, install and deploy the projects, either by compiling the parent project (Table 10: Parent project build for Tomcat Server) or by compiling each module separately in the order shown below (Table 11: Module-based build for Tomcat Server).

At a command prompt, first navigate to the folder indicated and then enter the corresponding command line.

In order to deploy the project, after the build is complete, copy the artifacts needed IdP.war, SP.war, SpecificConnector.war and SpecificProxyService.war to the deploy folder of the Server. The EidasNodeConnector.war and EidasNodeProxy.war may also be needed, check eIDAS-Node Installation and configuration guide for more information.

Deploy folder for tomcat is: $TOMCAT_HOME/webapps

Table 10: Parent project build for Tomcat Server

Step	Folder	Command line
1	Project root folder	mvn clean install --file EIDAS-Parent/pom.xml –P [NodeOnly,]DemoToolsOnly -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]

Table 11: Module-based build for Tomcat Server

Step	Folder	Command line
1	EIDAS-Parent	mvn clean install -N
2	EIDAS-Light-Commons	mvn clean install
3	EIDAS-Commons	mvn clean install
4	EIDAS-JCache-Dev	mvn clean install
5	EIDAS-JCache-Dev-Specific-Communication	mvn clean install
6	EIDAS-JCache-Ignite	mvn clean install
7	EIDAS-JCache-Ignite-Specific-Communication	mvn clean install
8	EIDAS-SpecificCommunicationDefinition	mvn clean install -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]
9	EIDAS-SimpleProtocol	mvn clean install
10	EIDAS-SpecificConnector	mvn clean install
11	EIDAS-SpecificProxyService	mvn clean install
12	EIDAS-SP	mvn clean package
13	EIDAS-IdP-1.0	mvn clean package

10.2 WildFly 23.0.2 Final Server (Servlet-Only Distribution) deployment

You must compile, install and deploy the projects, either by compiling the parent project (Table 14: Parent project build for WildFly 23.0.2 Final Server (Servlet-Only Distribution)) or by compiling each module separately in the order shown below (Table 15: Module-based build for WildFly 23.0.2 Final Server (Servlet-Only Distribution)).

At a command prompt, first navigate to the folder indicated and then enter the corresponding command line.

In order to deploy the project, after the build is complete, copy the artifacts needed IdP.war, SP.war, SpecificConnector.war and SpecificProxyService.war to the deploy folder of the Server. The EidasNodeConnector.war and EidasNodeProxy.war may also be needed, check eIDAS-Node Installation and configuration guide for more information.

Deploy folder for wildfly is: $WILDFLY_HOME/standalone/deployments

Table 14: Parent project build for WildFly 23.0.2 Final Server (Servlet-Only Distribution)

Step	Folder	Command line
1	Project root folder	mvn clean install --file EIDAS-Parent/pom.xml –P [NodeOnly,]DemoToolsOnly,wildfly -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]

Table 15: Module-based build for WildFly 23.0.2 Final Server (Servlet-Only Distribution)

Step	Folder	Command line
1	EIDAS-Parent	mvn clean install -N
2	EIDAS-Light-Commons	mvn clean install
3	EIDAS-Commons	mvn clean install
4	EIDAS-JCache-Dev	mvn clean install
5	EIDAS-JCache-Dev-Specific-Communication	mvn clean install
6	EIDAS-JCache-Ignite	mvn clean install
7	EIDAS-JCache-Ignite-Specific-Communication	mvn clean install
8	EIDAS-SpecificCommunicationDefinition	mvn clean install -P specificCommunicationJcacheIgnite| specificCommunicationJcacheDev [-DspecificJar]
9	EIDAS-SimpleProtocol	mvn clean install
10	EIDAS-SpecificConnector	mvn clean install
11	EIDAS-SpecificProxyService	mvn clean install
12	EIDAS-SP	mvn clean package -Pwildfly
13	EIDAS-IdP-1.0	mvn clean package -Pwildfly

10.3 WebLogic 14.1.1.0.0 Server deployment

You must compile, install and deploy the projects, either by compiling the parent project (Table 16: Parent project build for WebLogic Server) or by compiling each module separately in the order shown below (Table 17: Module-based build for WebLogic Server).

At a command prompt, first navigate to the folder indicated and then enter the corresponding command line.

In order to deploy the project, after the build is complete, copy the artifacts needed IdP.war, SP.war, SpecificConnector.war and SpecificProxyService.war to the deploy folder of the Server. The EidasNodeConnector.war and EidasNodeProxy.war may also be needed, check eIDAS-Node Installation and configuration guide for more information.

Deploy folder for weblogic is: $MW_HOME/user_projects/domains/base_domain/autodeploy/

Table 16: Parent project build for WebLogic Server

Step	Folder	Command line
1	Project root folder	mvn clean install --file EIDAS-Parent/pom.xml –P [NodeOnly,]DemoToolsOnly, weblogic -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]

Table 17: Module-based build for WebLogic Server

Step	Folder	Command line
1	EIDAS-Parent	mvn clean install -N
2	EIDAS-Light-Commons	mvn clean install
3	EIDAS-Commons	mvn clean install
4	EIDAS-JCache-Dev	mvn clean install
5	EIDAS-JCache-Dev-Specific-Communication	mvn clean install
6	EIDAS-JCache-Ignite	mvn clean install
7	EIDAS-JCache-Ignite-Specific-Communication	mvn clean install
8	EIDAS-SpecificCommunicationDefinition	mvn clean install -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]
9	EIDAS-SimpleProtocol	mvn clean install
10	EIDAS-SpecificConnector	mvn clean install –P weblogic
11	EIDAS-SpecificProxyService	mvn clean install –P weblogic
12	EIDAS-SP	mvn clean package –P weblogic
13	EIDAS-IdP-1.0	mvn clean package –P weblogic

10.4 WebSphere Liberty Server v21.0.0.5 (WebProfile 8) deployment

You must compile, install and deploy the projects, either by compiling the parent project (Table 18: Parent project build for WebSphere Server) or by compiling each module separately in the order shown below (Table 19: Module-based build for WebSphere Server).

At a command prompt, first navigate to the folder indicated and then enter the corresponding command line.

In order to deploy the project, after the build is complete. Copy the artifacts needed (IdP.war, SP.war, SpecificConnector.war and SpecificProxyService.war) to the deploy folder of the server.

The EidasNodeConnector.war and EidasNodeProxy.war may also be needed, check eIDAS-Node Installation and configuration guide for more information.

Deploy folder for Websphere Liberty (WebProfile) is:
${WEBSPHERE_SERVER_HOME}/usr/servers/${SERVER}/dropins/

Table 18: Parent project build for WebSphere Server

Step	Folder	Command line
1	Project root folder	mvn clean install --file EIDAS-Parent/pom.xml –P [NodeOnly,]DemoToolsOnly -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]

Table 19: Module-based build for WebSphere Server

Step	Folder	Command line
1	EIDAS-Parent	mvn clean install -N
2	EIDAS-Light-Commons	mvn clean install
3	EIDAS-Commons	mvn clean install
4	EIDAS-JCache-Dev	mvn clean install
5	EIDAS-JCache-Dev-Specific-Communication	mvn clean install
6	EIDAS-JCache-Ignite	mvn clean install
7	EIDAS-JCache-Ignite-Specific-Communication	mvn clean install
8	EIDAS-SpecificCommunicationDefinition	mvn clean install -P specificCommunicationJcacheIgnite | specificCommunicationJcacheDev [-DspecificJar]
9	EIDAS-SimpleProtocol	mvn clean install
10	EIDAS-SpecificConnector	mvn clean install
11	EIDAS-SpecificProxyService	mvn clean install
12	EIDAS-SP	mvn clean package
13	EIDAS-IdP-1.0	mvn clean package

10.5 Monolithic Deployment

Besides the 'Basic Deployment' described in this document, a 'Monolithic Deployment' is possible. In this case the *EidasNodeConnector.war* will include the *SpecificConnector* module and the *EidasNodeProxy.war* will include the *SpecificProxyService* module as JAR.

In this case add *–D specificJar* to the build commands for the following modules:

- EIDAS-SpecificCommunicationDefinition
- EIDAS-SpecificConnector
- EIDAS-SpecificProxyService
- EIDAS-SP
- EIDAS-IdP-1.0

This also applies to EidasNode modules, so please check the *Monolithic Deployment* section in the *eIDAS-Node Installation and Configuration Guide* for more details.

11 Verifying the installation

This section shows the final structure of your application server relevant directories; so that you can confirm that you have made the proper configurations. The structure of the application's 'war' files is also shown so you can verify that your applications were built successfully.

11.1 Tomcat 9

```
$TOMCAT_HOME/webapps/
EidasNodeConnector.war
EidasNodeProxy.war
IdP.war
SpecificConnector.war
SpecificProxyService.war
SP.war
(server specific directories were not included)
```

11.2 Wildfly 23.0.2 Final Server (Servlet-only Distribution)

```
$WILFDLY_HOME/standalone/Deployments/
EidasNodeConnector.war
EidasNodeProxy.war
IdP.war
SpecificConnector.war
SpecificProxyService.war
SP.war
(server specific directories were not included)
```

11.3 Weblogic 14.1.1.0.0

```
$WLS_HOME/domain/autodeploy/
EidasNodeConnector.war
EidasNodeProxy.war
IdP.war
SpecificConnector.war
SpecificProxyService.war
SP.war
(server specific directories were not included)
```

11.4 Websphere Liberty 21.0.0.5 (Web Profile 8)

```
$WEBSPHERE_SERVER_HOME/usr/servers/$SERVER/dropins/
EidasNodeConnector.war
EidasNodeProxy.war
IdP.war
SpecificConnector.war
SpecificProxyService.war
SP.war
(server specific directories were not included)
```

11.5 Configuration files

The following configuration and keystore files are needed for the full installation with Demo Tools. The layout itself can be different, depending on the environment variables, so this is just an example of Basic Setup:

- server/idp/additional-attributes.xml
- server/idp/eidas-attributes.xml
- server/idp/idp.properties
- server/idp/user.properties
- server/sp/additional-attributes.xml
- server/sp/eidas-attributes.xml
- server/sp/sp.properties
- server/specificConnector/ignite/igniteSpecificCommunication.xml (needed only if profile specificCommunicationJcacheIgnite is activated)
- server/specificConnector/additional-attributes.xml
- server/specificConnector/eidas-attributes.xml
- server/specificConnector/specificCommunicationDefinition.xml
- server/specificConnector/specificConnector.xml
- server/specificProxyService/ignite/igniteSpecificCommunication.xml (needed only if profile specificCommunicationJcacheIgnite is activated)
- server/specificProxyService/additional-attributes.xml
- server/specificProxyService/eidas-attributes.xml
- server/specificProxyService/specificCommunicationDefinition.xml
- server/specificProxyService/specificProxyService.xml

12 Simple protocol

Simple Protocol has been implemented for communication between SP and Specific Connector, and Specific Proxy Service and IdP. The main goal is to show the concept of integrating SPs, IdPs or similar entities with an eIDAS-Node. This is a simplified protocol for demonstration purposes only. It does not include security features.

The Simple Protocol was not designed to be used 'as is' by Member States, only for demonstration purposes. Some parts of it may evolve/be changed in future versions.

12.1 Original SAML EIDAS Request information items

Request

```
AuthnRequest
    ID
    Destination
    ForceAuthn
    IssueInstant
    ProviderName
    Version
    AssertionConsumerServiceURL
    SPType
    RequestedAuthnContext
        Comparison
        AuthnContextClassRef
    RequestedAttributes
        RequestedAttribute
            FriendlyName
            isRequired
            Value
                LatinScript
            Value
```

12.2 SimpleRequest example

SimpleRequest

```
{
    "authentication_request": {
        "attribute_list": [
            {
                "type": "requested_attribute",
                "name": "D-2012-17-EUIdentifier",
                "required": false
            },
            {
                "type": "requested_attribute",
                "name": "EORI",
                "required": false
            },
            {
                "type": "requested_attribute",
                "name": "LEI",
                "required": false
            },
            {
                "type": "requested_attribute",
                "name": "LegalName",
                "required": true
            }
        ],
        "requested_authentication_context": {
            "comparison": "minimum",
            "context_class": [
                "A"
            ],
            "non_notified_context_class": [
                "http://non.eidas.eu/NotNotified/LoA/1"
            ]
        },
        "citizen_country": "CA",
        "created_on": "2020-06-12T18:11:25.107+02:00",
        "force_authentication": true,
        "id": "835a09f7-0179-4198-9c19-36680d0fe531",
        "name_id_policy": "unspecified",
        "provider_name": "DEMO-SP-CA",
        "requester_id": "http://eidas.eu/EidasNode/RequesterId",
        "serviceUrl": "http://localhost:8080/SP/ReturnPage",
        "sp_type": "public",
        "version": "1"
    }
}
```


Note: If an attribute value is supplied in the Request, that will be a valueattribute, so "type" will change from "requested_attribute" to a certain type.

Simple Protocol	LightRequest	Mandatory Yes/No	Nature
authentication_request	lightRequest	No	abstract
version		Yes	always "1"
id	id to map	Yes	UUID generated
created_on		Yes	timestamp, local time in json "de facto" format

<table>
<tr><th>Simple Protocol</th><th>LightRequest</th><th>Mandatory Yes/No</th><th>Nature</th></tr>
<tr><td>force_authentication</td><td></td><td>No</td><td>always "true"</td></tr>
<tr><td>provider_name</td><td>providerName</td><td>No</td><td>string</td></tr>
<tr><td>serviceUrl</td><td></td><td>Yes</td><td>URL for the Response</td></tr>
<tr><td>sp_type</td><td>spType</td><td>No</td><td>"public" | "private" | omitted</td></tr>
<tr><td>requester_id</td><td>requesterId</td><td>No</td><td>string</td></tr>
<tr><td>context_class</td><td>levelOfAssurance type=”notified”</td><td rowspan="2">Yes</td><td rowspan="2"><table><tr><th>Context_class</th><th>LevelOfAssurance</th></tr><tr><td>"A" | "B"</td><td>"http://eidas.europa.eu/LoA/low "</td></tr><tr><td>"C" | "D"</td><td>"http://eidas.europa.eu/LoA/substantial"</td></tr><tr><td>"E"</td><td>"http://eidas.europa.eu/LoA/high"</td></tr></table>+ Optionally non notified LoA</td></tr>
<tr><td>non_notified_context_class</td><td>levelOfAssurance type=”nonNotified”</td></tr>
<tr><td>citizen_country</td><td>citizenCountryCode</td><td>Yes</td><td>This was an HTTP parameter with SAML, now it is the part of the message body.
Value: ISO Country Code e.g. "CA"</td></tr>
<tr><td>name_id_policy</td><td>nameIDPolicy</td><td>No</td><td>Can be omitted OR any of these values: “persistent” | “transient” | “unspecified”
To map:
persistent => urn:oasis:names:tc:SAML:2.0:nameid-format:persistent

transient => urn:oasis:names:tc:SAML:2.0:nameid-format:transient

unspecified => urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified</td></tr>
<tr><td>attribute_list</td><td>immutableAttributeMap
(please check example above)</td><td>No</td><td>Abstract, the idea is to use the FriendlyName attribute of eIDAS attributes here, then the AttributeRegistry.getByFriendlyName can be used in the mapping. It is possible to add a prefix such as “sp_”</td></tr>
</table>

Attribute type is always 'requested_attribute' for Request.

12.3 Original SAML EIDAS Response information items

Response

```
Response
        Destination
        ID
        InResponseTo
        IssueInstant
        Version
        Issuer
        Status
                StatusCode
                        StatusCode
                StatusMessage
        Assertion
                Issuer
                Subject
                        NameID
                                NameQualifier
                                Value
                        SubjectConfirmation
                                Method
                                SubjectConfirmationData
                                        Address
                                        InResponseTo
                                        NotOnOrAfter
                                        Recipient
                Conditions
                        NotBefore
                        NotOnOrAfter
        AudienceRestriction
                Audience
        AuthnStatement
                AuthnInstant
                        AuthnContext
                                AuthnContextClassRef
                                AuthnContextDecl
        AttributeStatement
                Attribute
                        FriendlyName
                        Name
                        NameFormat
                        AttributeValue
                                LatinScript
```

12.4 SimpleResponse example

SimpleResponse

Success:

```
{
    "response": {
        "version": "1",
        "id": "0a88c46e-24a7-4194-90f1-35485977bb18",
        "destination" : "http://", <-------------- TO BE DECOMISSIONED, NO
EIDINT yet
        "inresponse_to": "e7d5db08-0818-449f-bec2-d257bf9593d7",
        "created_on": "2012-04-23T20:28:43.511+02:00",
        "authentication_context_class": "high",
        "client_ip_address": "123.0.0.2",
        "issuer": "DEMO-IDP",
        "subject": "ES/BE/0123456",
        "name_id_format": "transient",
        "status": {
            "status_code": "success",
        },
        "attribute_list": [
            {
                "type": "string",
                "name": "gender",
                "value": "Male"
            },
            {
                "type": "string_list",
                "name": "birth_name",
                "values": [
                    {
                        "latin_script": false,
                        "value": "Árvíztűrő Tükörfúrógép"
                    },
                    {
                        "value": "Arvizturo Tukorfurogep"
                    }
                ]
            },
            {
                "type": "date",
                "name": "date_of_birth",
                "value": "1905-04-20"
            },
            {
                "type": "address",
                "name": "current_address",
                "value": {
                    "po_box": "1234",
                    "locator_designator": "28",
                    "locator_name": "DIGIT building",
                    "cv_address_area": "Etterbeek",
                    "thoroughfare": "Rue Belliard",
                    "post_name": "ETTERBEEK CHASSE",
                    "admin_unit_first_line": "BE",
                    "admin_unit_second_line": "ETTERBEEK",
                    "post_code": "1040"
                }
            }
        ]
    }
}
```


Error:

```
{
   "response" : {
      "version" : "1",
      "id" : "0a88c46e-24a7-4194-90f1-35485977bb18",
      "inresponse_to" : "e7d5db08-0818-449f-bec2-d257bf9593d7",
      "created_on" : "2012-04-23T20:28:43.511+02:00",
      "issuer" : "DEMO-IDP",
      "status" : {
         "status_code" : "failure",
         "sub_status_code" : "AuthnFailed",
         "status_message" : "all hands on deck"
      }
}
```

Simple Protocol	LightResponse	Mandatory Yes/No	Nature
response	LightResponse	No	abstract
version		Yes	always "1"
id	ID to map	Yes	UUID generated
inresponse_to	Original req ID to map	Yes	Mandatory
subject	Subject	No	New field for the *user.properties* (eg.: xavi.subject) Only if message is SUCCESS!
name_id_format	NameIdFormat	No	At the IDP, copy the value of NameIDPolicy from the Request Only if message is SUCCESS!
client_ip_address	IPAddress	No	optional address of the client browser
created_on		Yes	timestamp, local time in json "de facto" format
authentication_context_class	LevelOfAssurance	No	"high" | "substantial" | "low" Or non-notified LoA values
issuer	Issuer	Yes	string
status	Status	Yes	abstract structure
status_code	StatusCode	No	mandatory, allowed values: success | failure To be mapped as full SAML2Core URN (see SAML2Core): success => "*urn:oasis:names:tc:SAML:2.0:status:Success*" responder failure => "*urn:oasis:names:tc:SAML:2.0:status:Responder*" responder failure => "*urn:oasis:names:tc:SAML:2.0:status:Requester*" (not covered: "*urn:oasis:names:tc:SAML:2.0:status:VersionMismatch*" because it is for the Proxy Node in our simple implementation)

Simple Protocol	LightResponse	Mandatory Yes/No	Nature
sub_status_code	SubStatusCode	No	To be mapped as SAML:Core secondary status code like AuthnFailed, attach this string to the URN (see SAML2Core), optional: only in case of failure. Possible values: AuthnFailed | InvalidAttrNameOrValue | InvalidNameIDPolicy | NoAuthnContext | NoAvailableIDP | NoPassive | NoSupportedIDP | PartialLogout | PartialLogout | PartialLogout | PartialLogout | ProxyCountExceeded | RequestDenied | RequestUnsupported | RequestVersionDeprecated | RequestVersionTooHigh | RequestVersionTooLow | ResourceNotRecognized | TooManyResponses | UnknownAttrProfile | UnknownPrincipal | UnsupportedBinding The strategy here is just to append "*urn:oasis:names:tc:SAML:2.0:status:*" in Specific Proxy, and remove it in the Specific Connector. The IDP should implement some of these (as appropriate) but not all e.g.: AuthnFailed should be the failure case when the credentials entered in the IDP are wrong.
status_message	StatusMessage	No	Only in case of failure. IDP should be able to produce some example text (e.g. "failed to authenticate because of bad credentials" for the "AuthnFailed" code)
attribute_list	ImmutableAttributeMap (please check example above)	No	Abstract, the idea is to use the FriendlyName attribute of EIDAS attributes here, then the AttributeRegistry.getByFriendlyName can be used in the mapping. It is possible to add a prefix such as "idp_". Only if message is SUCCESS!

Possible attribute types are: *string*, *string_list*, *date* and *address*. Add JAXB implementing class if more required.

13 Demo Tools Migration

In this section it is briefly described, the relevant changes in the Demo Tools worth mentioning occurred from previous version related either to code or configuration.

13.1 Summary of EID Issues

(EID-1293) Missing cookie path for SpecificConnector.war and SpecificProxyService.war

13.2 (EID-1293) Missing cookie path for SpecificConnector.war and SpecificProxyService.war

Added session-descriptor including cookie details (cookie-name, cookie-path and context-root) in weblogic.xml file for EIDAS-SpecificConnector and EIDAS-SpecificProxyService modules to avoid collisions in the application when all war files are hosted under the same domain.

13.3 Support of Common Attributes 1.3 specifications

13.3.1 Code changes

- Added PhoneNumber attribute to package.properties for specificProxyService.
- Added Nationality attribute to package.properties for specificProxyService.
- Added CountryOfBirth attribute to package.properties for specificProxyService.
- Added TownOfBirth attribute to package.properties for specificProxyService.
- Added CountryOfResidence attribute to package.properties for specificProxyService.
- Added EmailAddress attribute to package.properties for specificProxyService.
- Added LegalPhoneNumber attribute to package.properties for specificProxyService.
- Added LegalEmailAddress attribute to package.properties for specificProxyService.

13.3.2 Configuration changes

- Added PhoneNumber attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added Nationality attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added CountryOfBirth attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added TownOfBirth attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added CountryOfResidence attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added EmailAddress attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.

- Added LegalPhoneNumber attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added LegalEmailAddress attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for user xavi in user.properties in idp.
- Added RepresentativePhoneNumber attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph10 and cph11 in user.properties in idp.
- Added RepresentativeNationality attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph10 and cph11 in user.properties in idp.
- Added RepresentativeCountryOfBirth attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph10 and cph11 in user.properties in idp.
- Added RepresentativeTownOfBirth attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph10 and cph11 in user.properties in idp.
- Added RepresentativeCountryOfResidence attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph10 and cph11 in user.properties in idp.
- Added RepresentativeEmailAddress attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph10 and cph11 in user.properties in idp.
- Added RepresentativeLegalPhoneNumber attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph9 and cph12 in user.properties in idp.
- Added RepresentativeLegalEmailAddress attribute to eidas-attributes.xml for sp, idp, specificConnector and specificProxyService and added it for users cph9 and cph12 in user.properties in idp.

13.4 Changes

13.4.1 Code changes

Created new environmentContext.xml files for EIDAS-SpecificConnector and EIDAS-SpecificProxyService which contain the bean specificCommunicationConfigRepository and removed the the eidasConfigRepository bean.
Changed the location for the igniteSpecificCommunication.xml to bean {specificCommunicationConfigRepository}/ignite/igniteSpecificCommunication.xml in the Eidas-JCache-ignite-specific-communication module.

jQuery was removed from Specific Connector, since not needed and also function.js was removed, which was calling jQuery and was not needed anymore in Specific Connector. jQuery was upgraded from version 1.11.3 to 3.6.0 in Specific Proxy-Service.

In Specific Proxy-Service created internal folder, moved idpRedirect.jsp and tokenRedirectToProxyService.jsp files and added security constraint to that internal folder in web.xml. Updated copyrights. Improved formatting of web.xml. Adjusted the SpecificProxyServiceViewNames IDP_REDIRECT and TOKEN_REDIRECT to move of redirect jsp files to internal folder.

In Specific Connector was created a internal folder and moved files tokenRedirectToConnector.jsp and colleagueResponseRedirect.jsp into that folder.

COLLEAGUE_RESPONSE_REDIRECT and TOKEN_REDIRECT enum values at SpecificConnectorViewNames.java were adapted to the new paths resulting of the move to internal folder. Added security constraint to internal folder to restrict access from outside the web application.

As the "CEF" project has ended, references to CEF have been removed from EIDAS .jsp pages.

The Content Security Policy was implemented in the Specific Proxy-Service and therefore the following code changes were done:

- Added CSP files newly created security folder in the Specific Proxy-Service: AbstractSecurityRequest.java, ConfigurationSecurityBean.java ContentSecurityPolicyFilter.java, ContentSecurityPolicyReportServlet.java, ExtendedServletResponseWrapper.java, package-info.java, RemoveHttpHeadersFilter.java, SecurityRequestFilter.java, SecurityResponseHeaderHelper.java.
- Added LoggingMarkerMDC.java to logging folder.
- Added files to newly created utils folder: CorrelatedRequestsHolder.java, LightResponseHelper.java, SessionHolder.java, SessionLogListener.java, TokenRedirectHelper.java.
- Added new SpecificProxyServiceError.java to new exceptions' folder.
- Updated specificProxyServiceApplicationContext.xml file with new beans springManagedSecurityConfigSpecificProxyService and errorMessageSource.
- Updated SpecificProxyServiceBeanNames file with new SECURITY_CONFIG value.
- Updated AbstractSpecificProxyServiceServlet.java with new methods setHTTPOnlyHeaderToSession and sessionIdRegenerationInWebApp.
- Added frame-ancestors 'none' to the headers in securityRequestHeaderHelper

The Content Security Policy was implemented in the Specific Connector and therefore the following code changes were done:

- Added CSP files in newly created security folder in the Specific Connector: AbstractSecurityRequest.java, ConfigurationSecurityBean.java
- ContentSecurityPolicyFilter.java, ContentSecurityPolicyReportServlet.java, ExtendedServletResponseWrapper.java, package-info.java, RemoveHttpHeadersFilter.java, SecurityRequestFilter.java, SecurityResponseHeaderHelper.java.
- Added LoggingMarkerMDC.java to logging folder.
- Added new SpecificConnectorError.java to new exceptions' folder.
- Added files to newly created utils folder: CorrelatedRequestsHolder.java, LightResponseHelper.java, SessionHolder.java, SessionLogListener.java, TokenRedirectHelper.java.
- Updated specificConnectorApplicationContext.xml file with new beans springManagedSecurityConfigSpecificConnector and errorMessageSource.
- Updated SpecificConnectorBeanNames file with new SECURITY_CONFIG value.
- Updated AbstractSpecificConnectorServlet.java with new methods setHTTPOnlyHeaderToSession and sessionIdRegenerationInWebApp.
- Added frame-ancestors 'none' CSP directive to the headers in SecurityResponseHeaderHelper.java

Various unused legacy images were removed:

- EIDAS-IdP-1.0/src/main/webapp/resource/skin0/img

    - ico-stork.svg
    - ico-tools.svg
    - illustration.jpg
- EIDAS-SP/src/main/webapp/resource/skin0/img
    - ico-tools.svg
    - illustration.jpg

Replaced "Current protocol binding is either invalid or not compatible with the current http method" error message with "Invalid Protocol Binding" for 003003 error code, so that the error message matches the documentation.

Removed bean file specificConnectorEnvironmentContext.xml, specificProxyServiceEnvironmentContext.xml in favor for environmentContext.xml.

Removed validation.method from bean configuration of ConfigurationSecurityBean and removed related methods in ConfigurationSecurityBean for both specific Connector and specific Proxy Service

Reworked domain validation in SecurityRequestFilter to no longer take validation.method into account (will now always validate)

Replaced use of class SpecificConnectorCommunicationServiceImpl by interface SpecificCommunicationService in ConnectorResponseServlet.java and ServiceProviderRequestServlet.java.

Moved the bean "connectorCommunicationService" from EIDAS-Specific-Communication-definiton to environmentContext.xml and SpecificConnectorBeanNames.java in the Specific Connector.

Removed the TokenRedirectHelper.java class from the Specific Connector.

Replaced use of classSpecificProxyserviceCommunicationServiceImpl by interface SpecificCommunicationService in ProxyServiceRequestServlet.java and TokenRedirectHelper.java.

Moved the bean "proxyCommunicationService" from EIDAS-Specific-Communication-definiton to environmentContext.xml and SpecificProxyServiceBeanNames.java in the Specific ProxyService.

Corrected Namespace Prefix of RepresentativePersonIdentifier to be eidas-natural-representative instead of eidas-natural in eidas-attributes.xml of SP, IDP, SpecificConnector and SpecificProxyService.

Removed script-nonce directive used in CSP functionality from SecurityResponseHeaderHelper.java from specific connector and specific proxy service.

Nonce, a unique number that identifies javascript imports was added to the specificConnector and specificProxyService modules. This is aligned to the eidas node connector and proxy. Removed the manifest.json import from the specificConnector and specificProxyService modules, instead of adding a nonce to it. Removed the runtime csp report uri checking mechanism in favor of active and non blank value checking.

"Report-To" header was added to the http response for specificConnector and specificProxyService modules in order to support csp reporting in some browsers.

13.4.2 Configuration changes

Updated specific.connector.request.url to value http://localhost:8080/EidasNodeConnector/SpecificConnectorRequest so it can redirect to EidasNodeConnector.war.

Updated specific proxy service configuration entry's value specific.proxyservice.response.url to http://localhost:8080/EidasNodeProxy/SpecificProxyServiceResponse so it can redirect to EidasNodeProxy.war

Due to the split of the node, the EIDAS_CONFIG_REPOSITORY environment variable was removed from the demo tools.

Added SpecificCommunication configuration duplicated from node: igniteSpecificCommunication.xml, specificCommunicationDefinition.xml and keystores.

Removed configuration keys "lightToken.connector.response.node.id", "lightToken.connector.request.node.id", "lightToken.proxyservice.request.node.id" and "lightToken.proxyservice.response.node.id" from specificCommunicationDefinition.xml in the demotools as this is a logging feature only present in the connector and proxy modules.

Added cph13 user at user.properties which contains Natural Person MDS attributes only, with non-latin first family name values.

The Content Security Policy was implemented in the Specific Proxy-Service and therefore the following configuration changes were done:

- Updated specificProxyService.xml external configuration file with new CSP entry values: max.requests.sp, max.requests.ip, max.time.sp, max.time.ip, trusted.sp.domains, security.header.CSP.enabled, security.header.CSP.report.uri, security.header.XXssProtection.block, security.header.XContentTypeOptions.noSniff, security.header.XFrameOptions.sameOrigin, security.header.HSTS.includeSubDomains, security.header.CSP.includeMozillaDirectives, validation.bypass.

The Content Security Policy was implemented in the Specific Connector and therefore the following configuration changes were done:

- Updated specificConnector.xml external configuration file with new CSP entry values: max.requests.sp, max.requests.ip, max.time.sp, max.time.ip, trusted.sp.domains, security.header.CSP.enabled, security.header.CSP.report.uri, security.header.XXssProtection.block, security.header.XContentTypeOptions.noSniff, security.header.XFrameOptions.sameOrigin, security.header.HSTS.includeSubDomains, security.header.CSP.includeMozillaDirectives, validation.bypass.

Moved the specificCommunication configuration from the specific parts into the Connector and ProxyService, these files are now called specificCommunicationDefinition.xml.The location of specificCommunicationDefinition.xml and /ignite/igniteSpecificCommunication.xml defaults to the Connector and ProxyService Configuration folder, when these folders are not set, falls back to the specific config folder for the specific modules

Updated default.specific.proxyservice.idp.response.service.url value in specific Proxy Service's configuration to http://localhost:8080/EidasNodeProxy/IdpResponse

Updated country1 and country2 urls to http://localhost:8080/EidasNodeConnector/ServiceProvider and http://localhost:8081/EidasNodeConnector/ServiceProvider in EIDAS-Config/server/sp/sp.properties file, this properties file will be used for the URLs.

Updated java.version to 11 in the pom.xml of following modules: EIDAS-Node-SpecificConnector-NoJcache, EIDAS-Node-SpecificProxy-NoJcache

Updated the environment variables in the ignite configuration for specific connector and specific proxy service to SPECIFIC_CONNECTOR_CONFIG_REPOSITORY and SPECIFIC_PROXY_SERVICE_CONFIG_REPOSITORY respectively

Removed validation.method from specificConnector.xml and specificProxyService.xml

Updated security.header.CSP.report.uri to http://localhost:8080/SpecificConnector/cspReportHandler in EIDAS-Config/server/specificConnector/specificConnector.xml

Updated security.header.CSP.report.uri to http://localhost:8080/SpecificProxyService/cspReportHandler in EIDAS-Config/server/specificProxyService/specificProxyService.xml

Note that for security.header.CSP.report.uri the values in Connector and SpecificConnector need to match in a monolithic deployment.

Note that for security.header.CSP.report.uri the values in ProxyService and SpecificProxyService need to match in a monolithic deployment.