



# **eIDAS-Node Migration Guide**

Version 1.4.1

## Document history

Version	Date	Modification reason	Modified by
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1.4 Official release	06/10/2017	Minor update to section 3.7	DIGIT
1.4.1 Official release	15/06/2018	Document Version changed to correspond with the release. Reuse of document policy updated.	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 purpose of this document is to facilitate migration from eIDAS-Node v1.4 to eIDAS-Node v1.4.1.

### 1.1. Document structure

This document is divided into the following sections:

- Chapter 1 — *Introduction*: this section.
- Chapter 2 — *Prerequisites*: Identifies any prerequisites that are required before migrating your eIDAS-Node to version 1.4.1.
- Chapter 3 — *Changes*: Contains detailed information about the changes that should be taken into consideration when migrating to eIDAS-Node version 1.4.1.

### 1.2. Document aims

The main aim of this document is to provide information on all the changes requiring your action when migrating to eIDAS-Node version 1.4.1, including:

- configuration changes; and
- changes to common code.

## 2. Prerequisites

Before starting your migration to eIDAS-Node version 1.4.1 you should have:

- already implemented eIDAS-Node version 1.4;
- downloaded the eIDAS-Node v1.4.1 Integration Package; and
- downloaded the latest documentation.

## 3. Changes

### 3.1. Summary of changes

In eIDAS-Node version 1.4.1 there are several changes that affect your installation. The main changes are:

- Change in Gender allowed values (see section **Error! Reference source not found.**);
- eIDAS protocol versioning (see section 3.3);

### 3.2. Change in Gender allowed values

In version 1.4 a bug prevented to set the gender other than Male or Female. Therefore, neither values mentioned in the specification: "Unspecified" or " Not Specified" were possible. This issue is fixed.

At present, possible values for Gender were clarified in the eIDAS specifications meetings and only "Male", "Female" and "Unspecified" are possible. However, to prevent interoperability issues a change regarding Gender was done that allows also "Not Specified".

#### 3.2.1. Code changes

To allow the "Not Specified" value for gender, the Gender class was changed and "Not Specified" constant was added. The PATTERN\_GENDER\_EIDAS in EidasAttributeValidator class was adjusted accordingly. Schema files saml\_eidas\_natural\_person.xsd and saml\_eidas\_representative\_natural\_person.xsd were also modified to allow for this value.

#### 3.2.2. Configuration changes

The file "user.properties" was changed and a new user "genderu" was added to test sending the "Unspecified" value.

### 3.3. eIDAS protocol versioning

In order to facilitate interoperability between different implementations of eIDAS-Nodes, the eIDAS-Node deployment version (aka. protocol versioning) was implemented. This implementation follows the definition in draft 1.6 of eIDAS message format 1.2. These values will appear in the eIDAS node metadatas.

#### 3.3.1. Code changes

The interface EidasMetadataParametersI was modified, setters and getters relating to protocol version and application identifier. EidasNodeMetadataGenerator was modified to retrieve the mentioned entries from the Node Properties. The generation of EntityAttributes was also refactored and the code grouped inside method generateEntityAttributes.

Also in `EidasMetadata`, the code inside method `generateExtensions` was refactored: methods were created to contain the generation of child elements of `Extensions` element. Examples of newly added methods are: `generateSigningMethods`, `generateSpType`.

Regarding the Demo SP and Demo IdP code, changes were also done at `GenerateMetadataAction` classes to retrieve the values, related to protocol versioning from configuration files `sp.properties` and `idp.properties`

### 3.3.2. Configuration changes

Two new entries were introduced in `eidas.xml`:

- `<entry key="eidas.protocol.version">1.1</entry>`
- `<entry key="eidas.application.identifier">CEF:eIDAS-ref:1.4.1</entry>`

These properties allow configuring the values of protocol version and application identifier, which will be displayed in the eIDAS Node's metadata.

When none of these entries are present, none of the XML elements related to eidas deployment versioning (AKA protocol versioning) will be displayed in the eIDAS Node's Metadata.

Similarly, for Demo IdP and Demo SP configuration files: `idp.properties` and `sp.properties`, the following properties/values were added:

- `eidas.protocol.version=1.1`
- `eidas.application.identifier=CEF:eIDAS-ref:1.4.1`

When none of these properties are present, none of the XML elements related to eidas deployment versioning (AKA protocol versioning) will be displayed in the eIDAS Demo SP's and Demo IdP's Metadata.

## 3.4. Other fixes/improvements need no action

### 3.4.1. Metadata used by Junit updated

The file `ed.xml` was updated because the previous one had a validity in the past which caused failure of Junit tests.

### 3.4.2. Improved parsing of metadata

In the `convertExtensions` method of `MetadataUtil` class a fix allows parsing of metadata produced by the German Middleware.