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European eInvoicing Standard in Italy

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SMP/iPA integration and PEPPOL network enablement

Deliverable D3.11

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| **Contributors** |  |
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Executive Summary

This document aims to describe the design for IPA/SMP integration carried out by Intercent-ER within EeISI project. The design mainly interests:

* Specific software requirements
* Services

Glossary

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| **B2B** | Business to Business |
| **B2C** | Business to Consumer/Citizen |
| **B2G** | Business to Government |
| **BII** | Business Interoperability Interfaces |
| **C2G** | Citizen to Government |
| **CCTS** | Core Component Technical Specification |
| **CEF** | Connecting Europe Facility |
| **CEM** | Certified Electronic Mail – Legal Mail (PEC Posta Elettronica Certificata in Italy) |
| **CEN** | European Committee for Standardisation |
| **CII** | Cross Industry electronic Invoice |
| **CIUS** | Core Invoice Usage Specification |
| **DSI** | Digital Service Infrastructures |
| **e-SENS** | Electronic Simple European Networked Services |
| **FatturaPA** | Public administration electronic invoice framework (FatturaPubblica Amministrazione) |
| **G2G** | Government to Government |
| **INEA** | Innovation and Networks Executive Agency |
| **IPA** | Index of Public Administration |
| **OASIS** | Organization for the Advancement of Structured Information Standards |
| **PEPPOL** | Pan-European Public Procurement Online |
| **PEPPOL-BIS** | Pan-European Public Procurement Online Business Interoperability Specifications |
| **SDI** | Electronic exchange system in Italy (Sistema Di Interscambio) |
| **SMP** | Service Metadata Publisher |
| **UBL** | Universal Business Language |
| **UN/CEFACT** | United Nations Centre for Trade Facilitation and Electronic Business |
| **UNTDID** | UN Trade Data Interchange Directory |
| **URI** | Uniform Resource Identifier |
| **URL** | Uniform Resource Location |
| **URN** | Uniform Resource Name |
| **XML** | Extensible Mark-up Language |

1. Introduction

The AP Providers Management is a web application function developed for AGID, this is the web UI utilized by Administrator User to search, create, edit and delete Certified Access Point Providers enabled as intermediary issuer.

From main menu the Administrator should be able to perform the following actions:

• Add, Edit, Delete Access Point Providers

• Search AP and view a list of all the enabled AP Providers

1. Specific Software Requirements
   1. Managing Access Point Providers

The AP Providers Management is a web application function developed for AGID, this is the web UI utilized by Administrator User to search, create, edit and delete Certified Access Point Providers enabled as intermediary issuer.

From main menu the Administrator should be able to perform the following actions:

* Add, Edit, Delete Access Point Providers;
* Search AP and view a list of all the enabled AP Providers.
  1. Add new Access Point Providers

When the Administrator wishes to create a new AP he should select the action from the appropriate menu (Access Point Providers > New Access Point Provider).

The web page to add a new AP Provider displaying the following mandatory fields:

* Access Point Id

It should be filled with the unique identifier generated at the end of the certification procedure

The rules to define a valid “Access Point ID” are the following:

* it can contain letters, numbers (all the other characters “\*”, “@” are not allowed)
* it can't terminate or start with a space
* it must be at most of 4 characters
* Company Name
* EndPoint Url
* Open Peppol certificate
* AP Country
* Contact Name
* Contact Info

The command buttons:

* Save
* Cancel
  + 1. Action Add

The system checks that:

* all the mandatory fields are filled in
* an AP with the same “Company Name” it does not exist already

If the AP is created successfully, the system opens a message box with the following message “The AP has been created successfully”.

If an error is discovered an error message will be displayed on the panel above the Tab “General Data”

* 1. Search Access Point Providers

When the Administrator wishes to search a new AP he should select the action from the appropriate menu (Access Point Providers > Search Access Point Provider).

The Search filter criteria contains the followings fields:

* Company Name
* End Point Url
* Contact Name
* Contact Info

The Administrator can searches AP by specifying some filter fields or not entering any filter and then presses the button “Search”.

The System retrieves the list of APs that fulfill the chosen search criteria.

The search filters are used in “AND” mode, and are case insensitive. the result of the search consists in all the items that match (fully or partially) the entered filter fields. For example inserting only one letter in the "Company Name" field the system displays as result all the AP that contains the specified letter in the company name.

For each AP the system displays summary information in the AP Summary section.

The AP’s properties shown are the following:

* Company Name
* End Point Url
* Contact Name
* Contact info

The following button commands:

* View Detail
* Edit
* Delete

Administrator can modify the AP properties by clicking on the button “Edit” on the toolbar, the System opens a page with the Access Point properties filled in.

The User can update the fields and confirms the changes by clicking the Save button.

* + 1. Action Delete

It is possible to delete an existing Access Point Provider by the “Search AP” or “View Detail AP” functions.

The button “Delete” remove all the informations related to the selected Access Point.

1. Services
   1. Web Service Check Peppol Endpoint

A SOAP web service will be developed and will be invoked by IPA to check the data filled by Pubblic Amministration against the access point provider data.

The web service will be exposed under the URL:  
<https://test-peppol-smp.regione.emilia-romagna.it/ipa/peppolendpoint>

<soapenv:Envelope *xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"* *xmlns:pep="http://intercenter.regione.emilia-romagna.it/PeppolEndPoint"*>

<soapenv:Header/>

<soapenv:Body>

***<pep:verificaPeppolEndPoint>***

***<arg0>012B</arg0>***

***</pep:verificaPeppolEndPoint>***

</soapenv:Body>

</soapenv:Envelope>

* + 1. XML Request

The XML request structure is intended as follows.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **XML Tag** | **Description** | **Constraints** | **Data type** | **Example** | **Mandatory** |
| **Starting section <verificaPeppolEndPoint> [1..1]** | | | | | |
| **arg0[1]** | Access Point identifier | 0-255 characters | String | 012B | Yes |
| **Ending section <verificaPeppolEndPoint> [1..1]** | | | | | |

**[1]arg0** length in database is 4 characters, by the way its relative data type allows to indicate 0-255 characters. Every value made with a length not equal to 4 will be automatically rejected and the final result will be a negative response.

* + 1. XML Response

The XML response structure is intended as follows.

| **XML Tag** | **Description** | **Constraints** | **Data type** | **Example** | **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| **Starting section <verificaPeppolEndPointResponse> [1..1]** | | | | | |
| **Starting section <verificaPeppolEndPointResponse>/<return> [1..1]** | | | | | |
| **esitoVerificaEndPoint** | Outcome code related to query result (“Y” if the given Access Point identifier corresponds to an existing AP, “N” otherwise) | Admitted values are: Y, N | Character | Y | Yes |
| **Ending section <verificaPeppolEndPointResponse>/<return> [1..1]** | | | | | |
| **Ending section <verificaPeppolEndPointResponse> [1..1]** | | | | | |