Interactive Briefing: Infor LN integration with Localization Services Platform

Introductions to the LN Localization integration features: functionalities, opportunities and case studies

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Interactive briefing

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Agenda

01

Introduction to ILS Integrations

General overview

ILS Products

Completed adoptions

Resources

02

Localization Service Platform (LSP)

Using LSP: functions and features

Installation/Deployment

Configuration

03

Global Electronic Message Service (GEMS)

Introduction to the functionalities:

- Purchase Invoices imports
- Banking files
- Intrastat

ION installation

04

Case Studies

Case Studies

Special Features

Questions/Discussion

Introduction to ILS Integrations

Infor Localization Services

Infor Localization Services (often referred as LSP) is offering integration solutions in the following areas:

- eInvoicing (active and passive flows)
- Reporting to Tax Authorities
- eTransport
- eAuditing
- Banking integrations

ILS Functionalities

E-Invoicing

- Electronic sales invoices that can be sent directly to customers.

Purchase invoice imports

- Electronic supplier invoices that can be consumed into LN.

Banking

- Electronic messages that enable payments and direct debits to be created for financial institutions,
  and Electronic statements to be consumed by LN

Tax reporting

- Electronic submission of tax data:
  - E-Invoicing
  - Purchase invoices/cost reporting
  - E-Journals
  - E-Transport

Auditing

- Reports used for auditing, data verification, and reconciliation.

Intrastat

- Conversion of the LN proprietary Instrastat file into country-specific formats

Interactive Briefing

ILS Products

LOCALIZATION SERVICE PLATFORM (LSP)

Front-hand based on Mongoose.
Back-hand based on Microsoft SQL server

Also includes:
Connectivity: API or application
Cryptography service

GLOBAL ELECTRONIC MESSAGING SERVICE (GEMS)

Based on ION

+ LOCALIZATION SUITES

Based on LN

ILS Electronic Messages Sources

- Sync.Invoice BOD
  - e-invoicing
  - e-reporting
- Sync.ReceivableTracker BOD
  - e-reporting
- Sync.SupplierInvoice BOD
  - e-reporting
- Process.Invoice BOD
  - Feedback
- Sync. SourceSystemJournalEntry BOD
  - E-reporting (*e-journals / e-audit*)
- Sync.Shipment BOD
  - E-reporting (*e-transport / e-shipment*)
- Load.SupplierInvoice BOD
  - Supplier Invoice Import
- Sync.CreditTransfer BOD
  - Banking
- Sync.DebitTransfer BOD
  - Banking
- Acknowledge BOD(s)
  - Internal / Errors Handling
- Intrastat LN XML
  - EU Intrastat
- Electronic Bank Statements
  - Banking

Localization Service Platform (LSP)

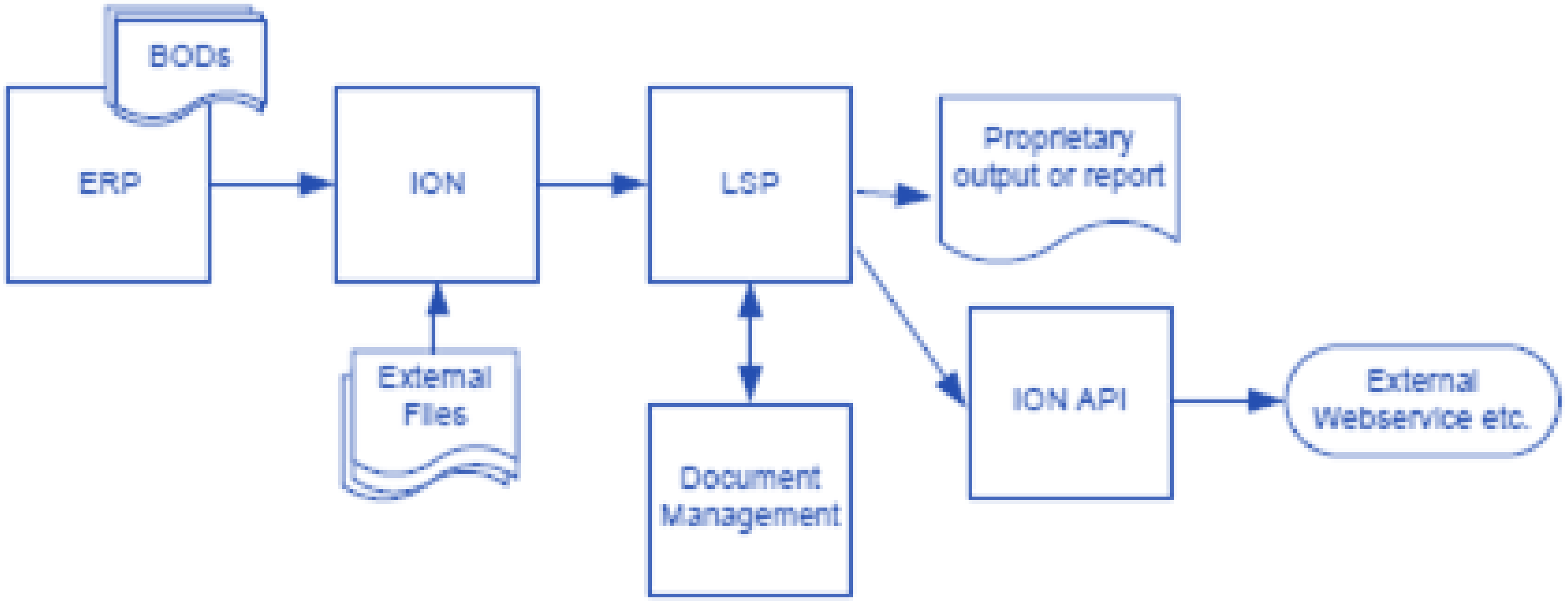
What is LSP?

- The Localization Service Platform (LSP) helps customers meet the local regulatory and statutory requirements, and business habits, of a country.
- It is connected to ERPs through standard Infor BODs
- It uses business knowledge to build the submissions.
- It supports different processes, and types of external connectivity

LN-LSP integration scheme

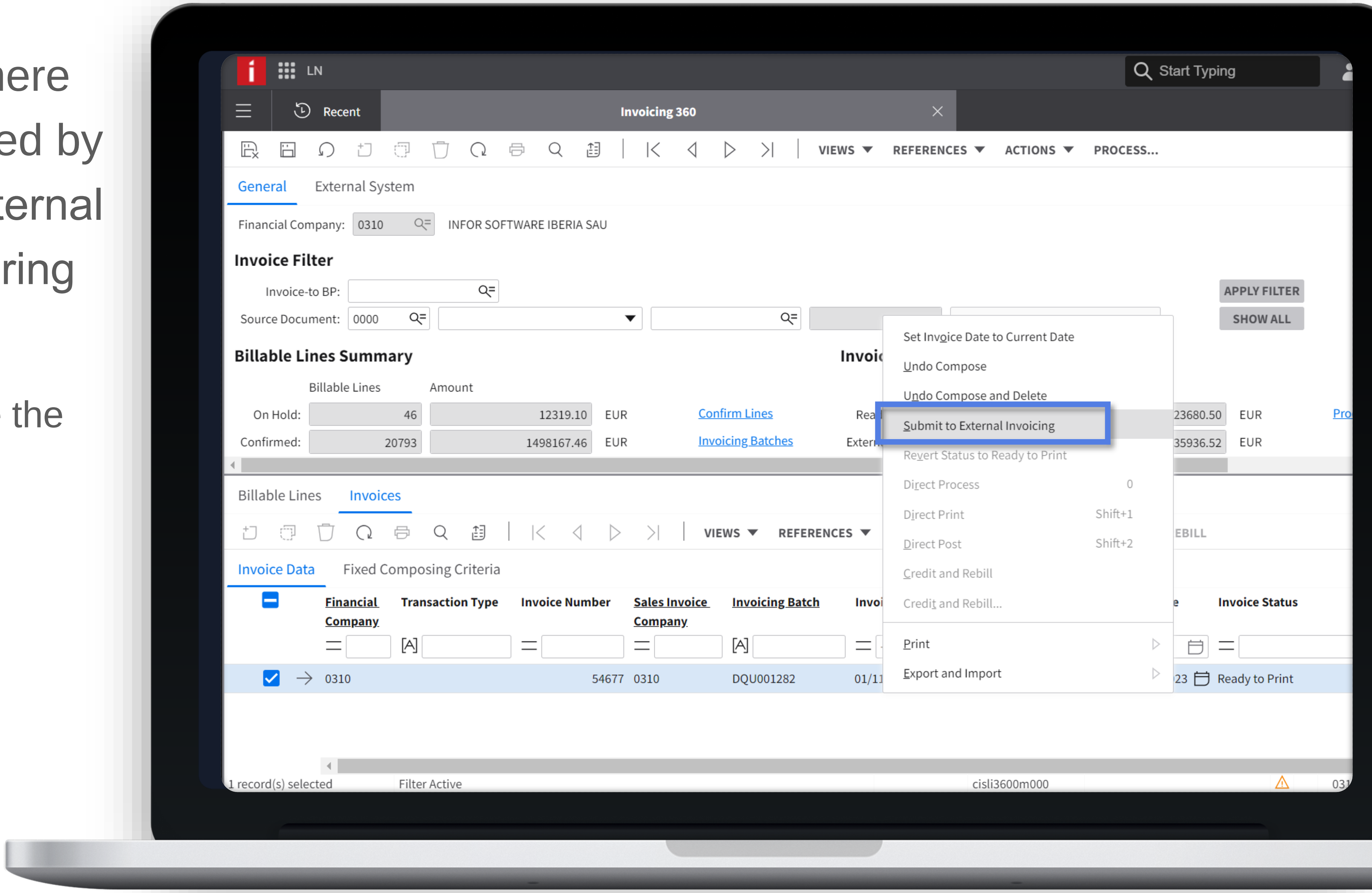
LN generates BODs that are sent through ION to the LSP application.

- The LN Company is the *accounting entity* shown in BODs and in Infor Localization Services.
- A user in LSP (or an automated process) can generate the proprietary message or report, based on the data from the BODs.



LN-LSP integration

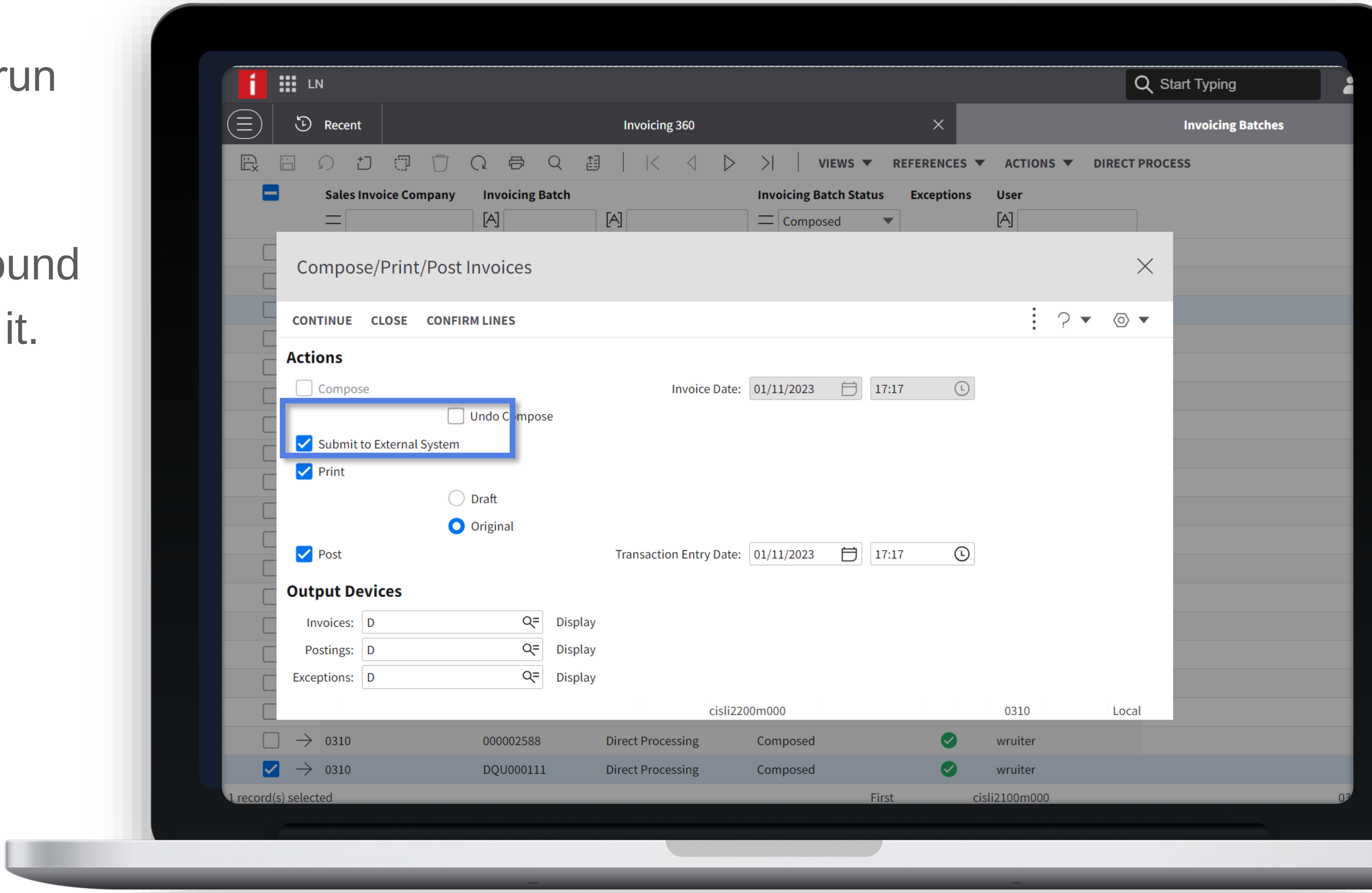
- In case of implementations in countries where the E-invoice must be preliminarily approved by the Tax Authorities, the step "Submit to External Invoicing" will be required, since it is triggering the integration
  - This step anticipates the BOD generation before the invoice is posted.



LN-LSP integration

- “Submit to External Invoicing” can be also run automatically within the LN invoice batch

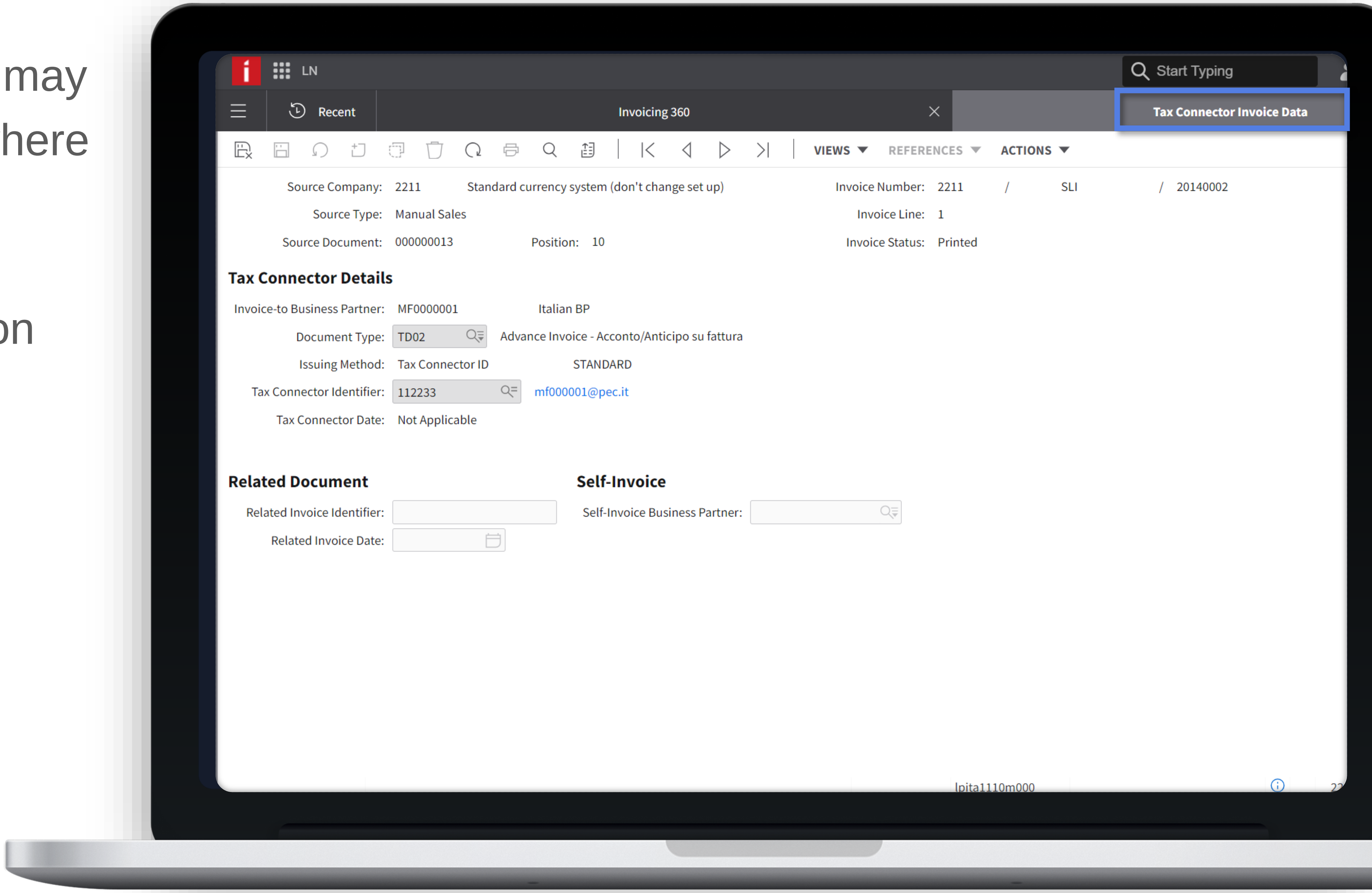
- In most cases LSP operates in the background and it is not required for the user to launch it.



LN-LSP integration

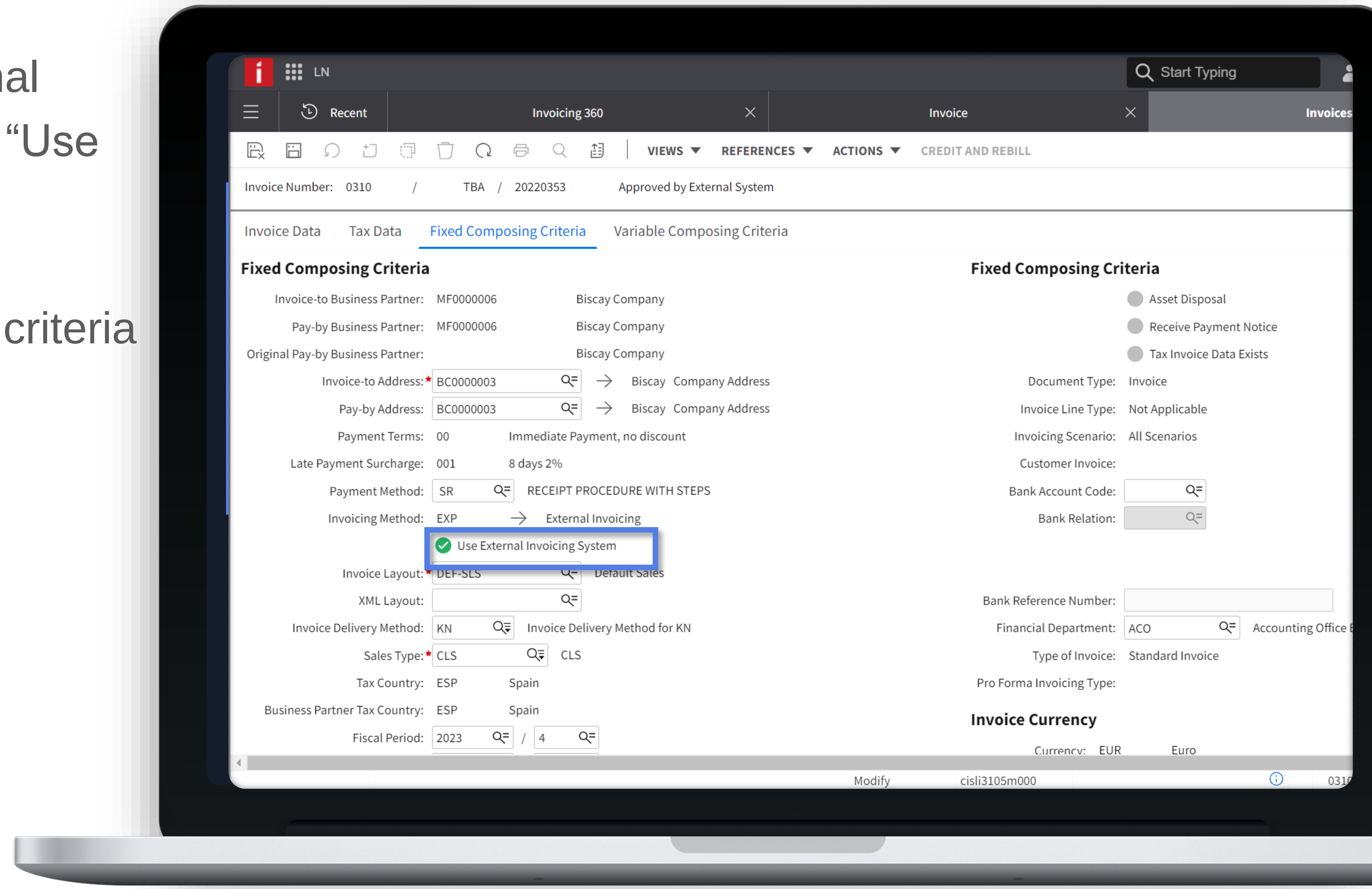
- Invoices, and in some cases Billable lines, may be enriched with country specific details, where required.

- These details are usually added in a session called “Additional invoicing data” or “Tax Connector Data”
  - The details could be:
    - Invoice Sub-types:
    - Additional Business partner IDs
    - Contract or authorization references
    - Etc.



LN-LSP integration

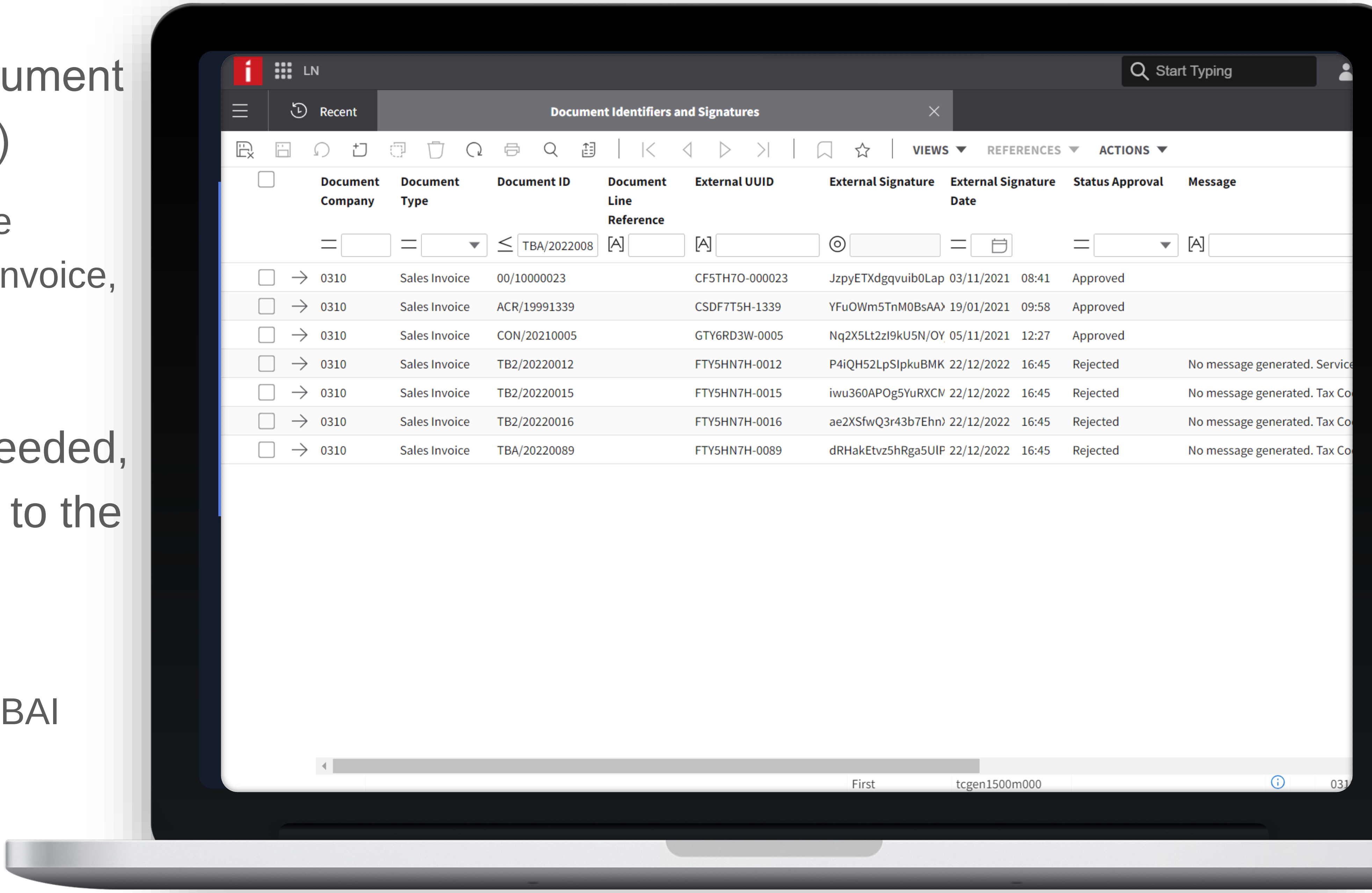
- All invoices which went through the external invoicing process are recognizable by the “Use external invoicing” checkbox
- Additional E-invoicing specific composing criteria are usually added to the localization



LN-LSP integration

- The feedback is stored in the session “Document Identifiers and signature” (tcgen1500m000)
  - This session includes the approval status and the eventual error message, the basic details of the invoice, the UUI, the signature, etc.

- In case more country-specific details are needed, another feedback session is usually added to the LP package for the localization.
  - For example, “Electronic Invoice information by Document (lpes0111m00) for the Spanish Ticket BAI invoicing.



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Exploring LSP

LSP Main Functions

The functions in LSP can be broadly categorized into these types of files:

- Electronic invoices (eInvoicing)
- Tax reports
- Electronic audit files (eAuditing)
- Electronic transportation documents (eTransport)

LN-LSP Integration: Completed Adoption

Country	Requirement	
Multiple Countries	PEPPOL E-Invoicing Access Point PEPPOL e-invoicing through Storecove	
Czech Republic	E-invoice "ISDOC"	
Hungary	"NAV 3.0" E-invoicing	
Italy	"FatturaPA" E-Invoicing and Integration Documents Reporting (“Esterometro”)	
Mexico	MX CFDI eInvoicing 3.3 MX CFDI eInvoicing 4.0 CFDI 4.0 Payment Receipt	SAT - Chart of Accounts (v1.3) SAT - JournalEntries - PolizasPeriodo (v1.3) SAT - JournalEntries - Auxillier Ctas (v1.3) SAT - Trial Balance (v1.3)
Saudi Arabia	ZATCA E-Invoice Phase II	
Slovenia	e-SLOG E-Invoicing	
Spain	TBAI E-Invoicing	
Turkey	Turkish Revenue Administration E-Invoicing, with Intecon integration	

Note: LN and LSP development teams are working on several ongoing adoptions of the same integration model for several countries

LSP Connectivity Types

Web Services Gateways

Most common connectivity type. ION APIs are available for certain countries.

Examples:

- Saudi Arabia
- Mexico
- Poland (Tax reporting)
- Spain (TBAI)
- Sending invoices to the Peppol Network (multi country)

Connectivity through Third Parties

Possibility for the customer to select freely the partner for the connectivity. All electronic files are made available to them. A customized BOD is made available for carrying the e-document.

Examples:

- Italy

Connectivity through Infor Partners

Infor has official partners for connectivity in certain countries, they are Edicom/Ediwin, Storecove, Intecon.

Examples:

- Mexico (Edicom)
- Turkey (Intecon)
- Peppol (Storecove)

Stand-alone Tax Connectors

External software which must be installed on Prem, usually due to specific country requirements.

Examples:

- e.g. Italy (Infor Italian Tax Authority Connector)
- Spain (SII).
- Italy

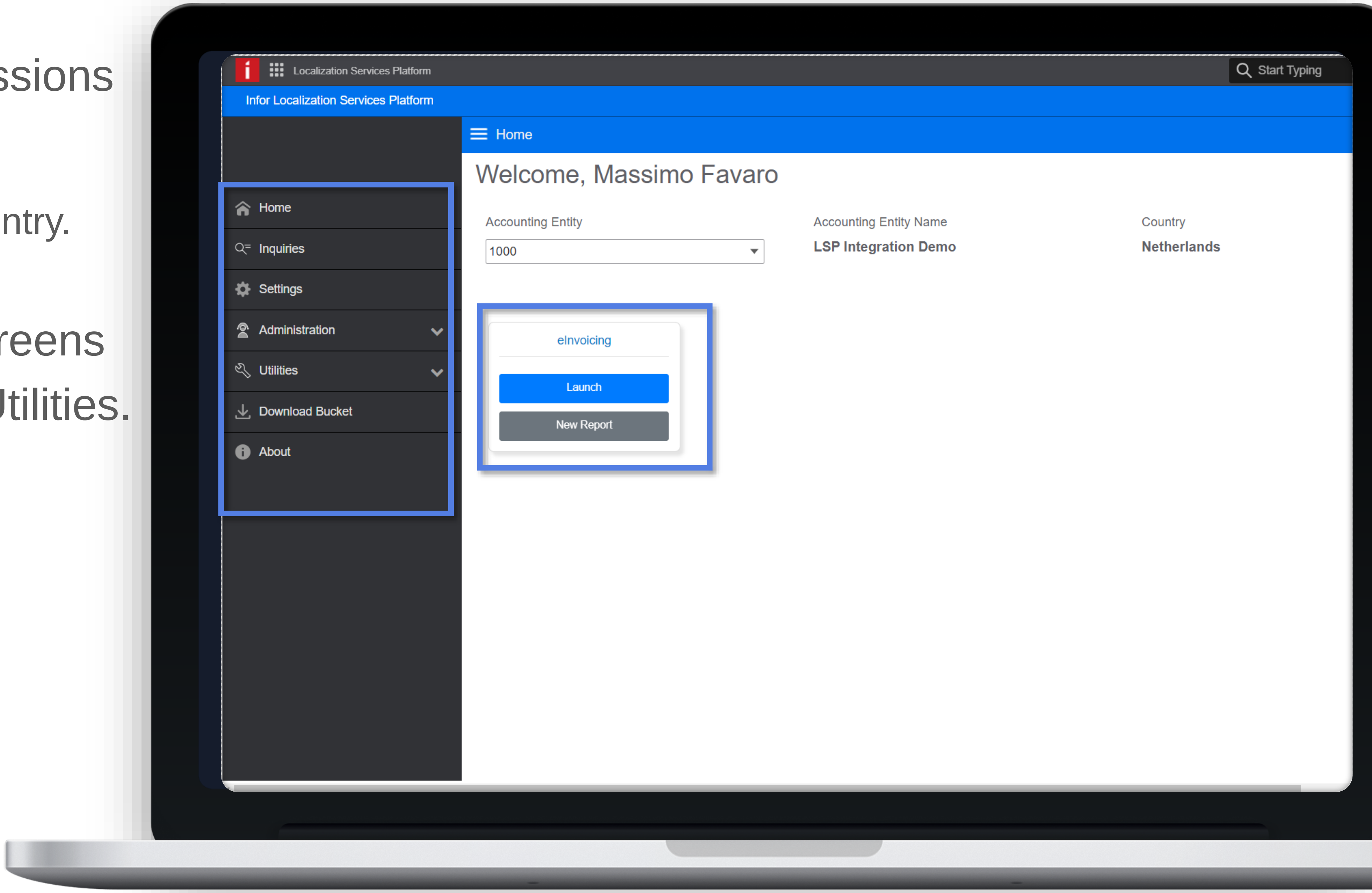
What can LSP do?

Accept BODs from LN and Send BODs to LN	Generate electronic documents that conform to government-provided schemas	Generate other proprietary documents in an electronic format	Provide lists of documents that have been processed and document statuses	Allow inquiries that help users analyze data and check data against their system of record
Allow users to maintain some master data and default codes	Enable mapping of LN codes to government-provided codes that are required in the output file	Communicate with third-party institutions such as governments and government agencies	Transactional reporting (“push”): LSP can automatically transform data to the proprietary format and transfer it	Batch reporting: user can check and confirm what will be sent to the external agency prior to submission
Data submission is then tracked and logged for audit purposes	Send to LN the authorities' responses, as required, including special digital signatures or QR code strings.	Archive and transfer documents using Infor Document Management (IDM) capabilities	Personalize the output using Translations, text management, or the “Supplementary Data” feature	…

Using LSP

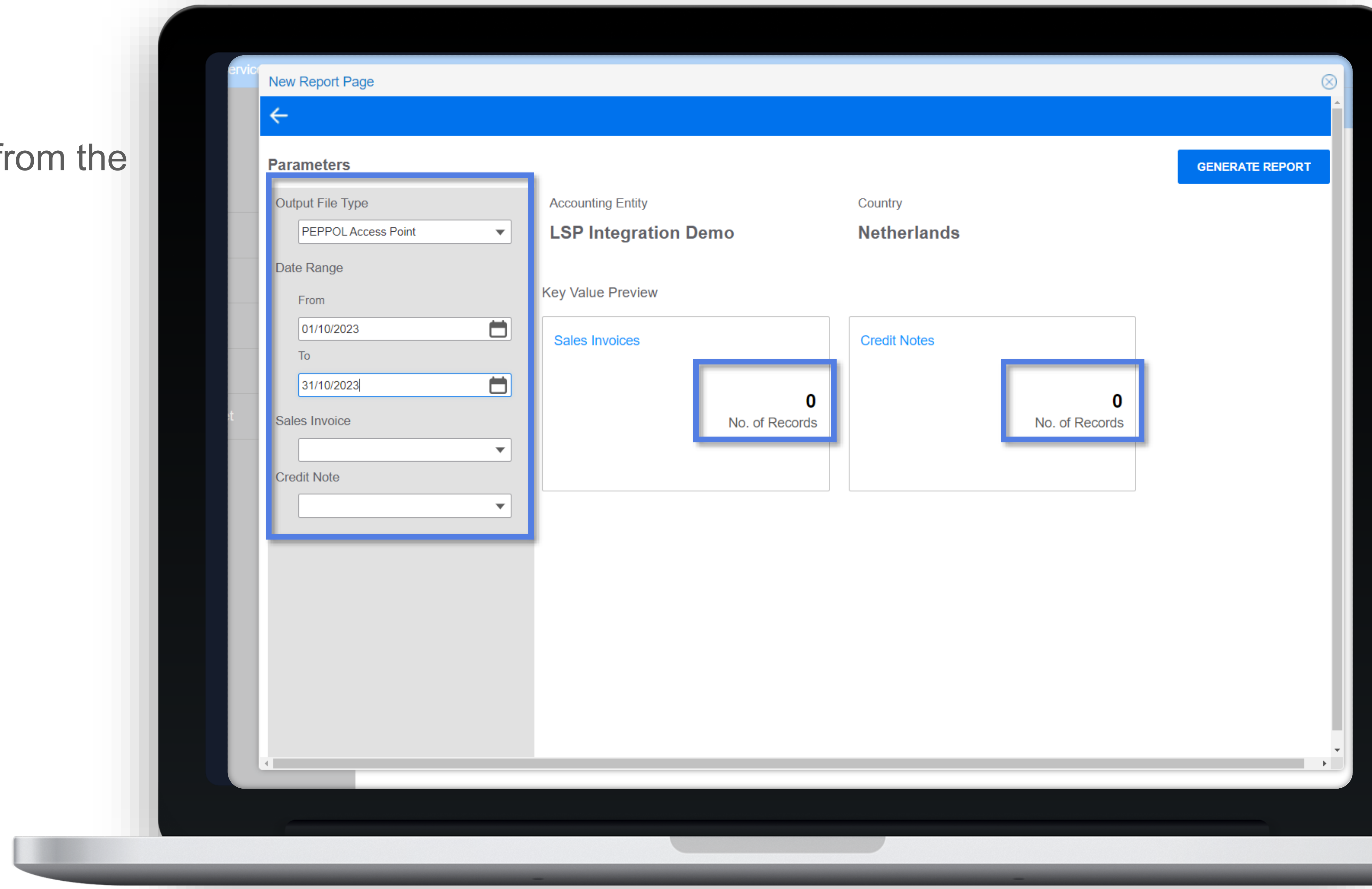
Using LSP: Homepage

- Access to the Service(s), Configuration sessions and other Tools
  - There may be multiple services for the same country.
- Depending on user privileges, available screens and options: Inquires, Administration and Utilities.
- Service actions:
  - “New report” opens the “New report page”
  - “Launch” opens the “Service page”



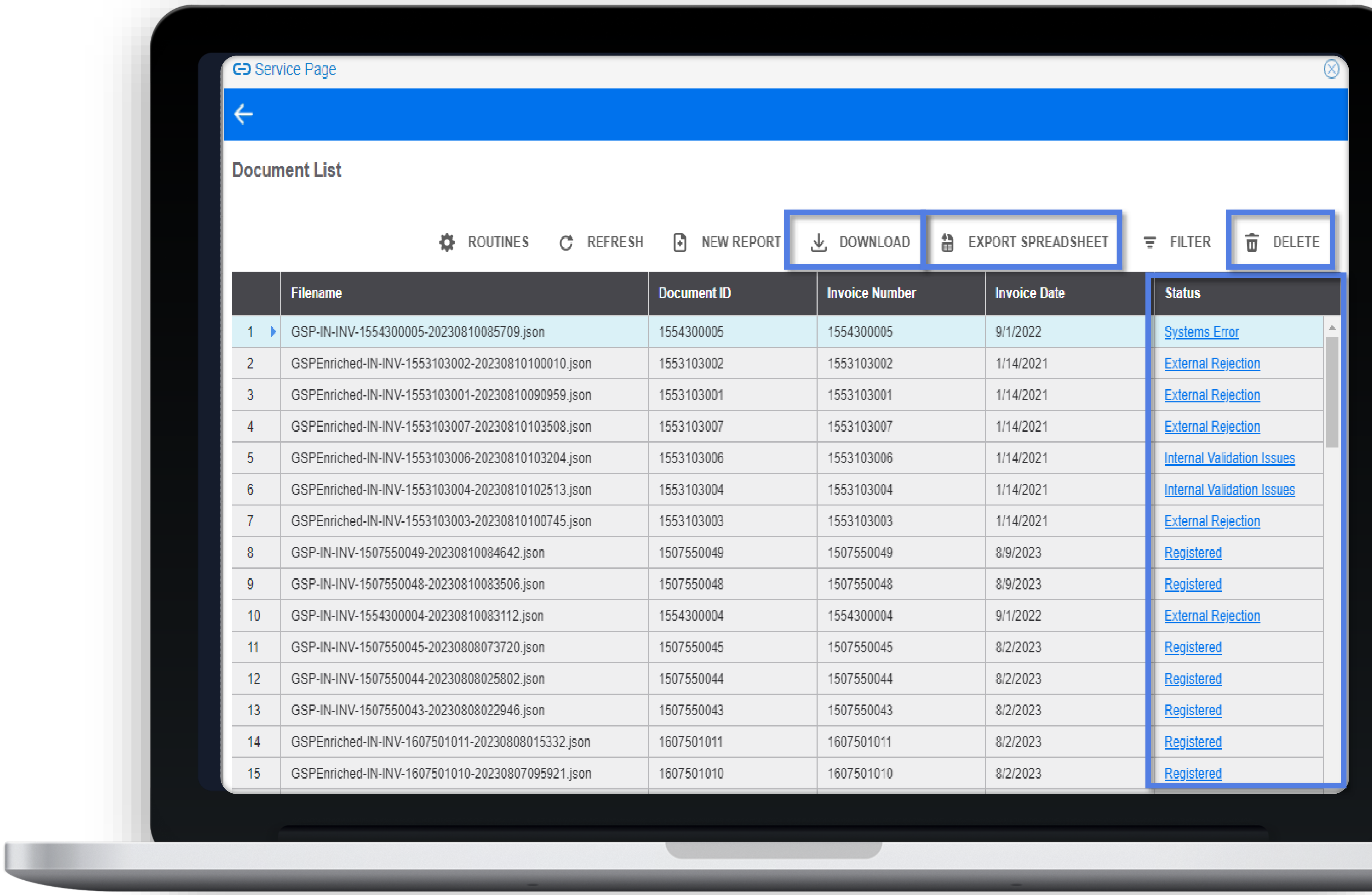
Using LSP: New Report Page

- Data selection for for batch reporting
  - Available selecting “new report” for the service (from the Homepage or from the Service Page)
- Possibility of filtering data by
  - output file type
  - date
  - type of invoice
  - Individual document selection allowed (in most countries)
- Additional details available clicking on the number of records



Using LSP: Service Page

- Listing processed documents
- View of document details:
  - Filename
  - Id
  - Number
  - Date
  - Status
- Download documents
- Delete documents and reprocess them
- Export to Spreadsheet



Service Page

Document List

ROUTINES REFRESH NEW REPORT DOWNLOAD EXPORT SPREADSHEET FILTER DELETE

	Filename	Document ID	Invoice Number	Invoice Date	Status
1	GSP-IN-INV-1554300005-20230810085709.json	1554300005	1554300005	9/1/2022	Systems Error
2	GSPEnriched-IN-INV-1553103002-20230810100010.json	1553103002	1553103002	1/14/2021	External Rejection
3	GSPEnriched-IN-INV-1553103001-20230810090959.json	1553103001	1553103001	1/14/2021	External Rejection
4	GSPEnriched-IN-INV-1553103007-20230810103508.json	1553103007	1553103007	1/14/2021	External Rejection
5	GSPEnriched-IN-INV-1553103006-20230810103204.json	1553103006	1553103006	1/14/2021	Internal Validation Issues
6	GSPEnriched-IN-INV-1553103004-20230810102513.json	1553103004	1553103004	1/14/2021	Internal Validation Issues
7	GSPEnriched-IN-INV-1553103003-20230810100745.json	1553103003	1553103003	1/14/2021	External Rejection
8	GSP-IN-INV-1507550049-20230810084642.json	1507550049	1507550049	8/9/2023	Registered
9	GSP-IN-INV-1507550048-20230810083506.json	1507550048	1507550048	8/9/2023	Registered
10	GSP-IN-INV-1554300004-20230810083112.json	1554300004	1554300004	9/1/2022	External Rejection
11	GSP-IN-INV-1507550045-20230808073720.json	1507550045	1507550045	8/2/2023	Registered
12	GSP-IN-INV-1507550044-20230808025802.json	1507550044	1507550044	8/2/2023	Registered
13	GSP-IN-INV-1507550043-20230808022946.json	1507550043	1507550043	8/2/2023	Registered
14	GSPEnriched-IN-INV-1607501011-20230808015332.json	1607501011	1607501011	8/2/2023	Registered
15	GSPEnriched-IN-INV-1607501010-20230807095921.json	1607501010	1607501010	8/2/2023	Registered

Using LSP: Document Statuses

Registered

- The documents have been accepted and acknowledged by the third party

Internal Validation Issues

- Errors were found by LSP during the generation of the documents.

External Rejection

- Documents were submitted to the third party but were rejected due to third party validation errors.

Awaiting Confirmation

- Documents have been generated and submitted to a third party but not yet acknowledged.

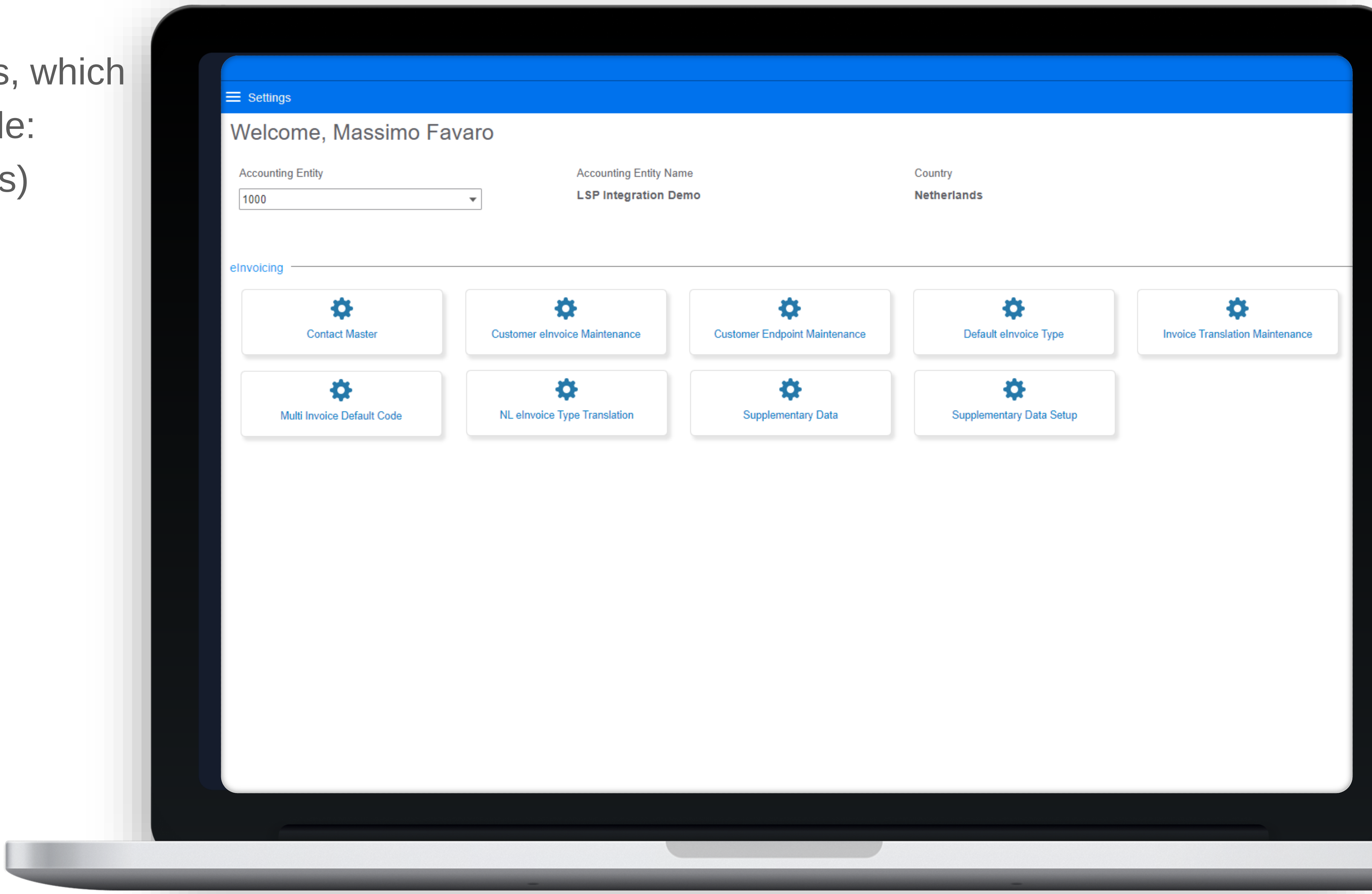
Systems Error

- Documents were generated but the post generation processing has failed in some way.

Using LSP: Settings

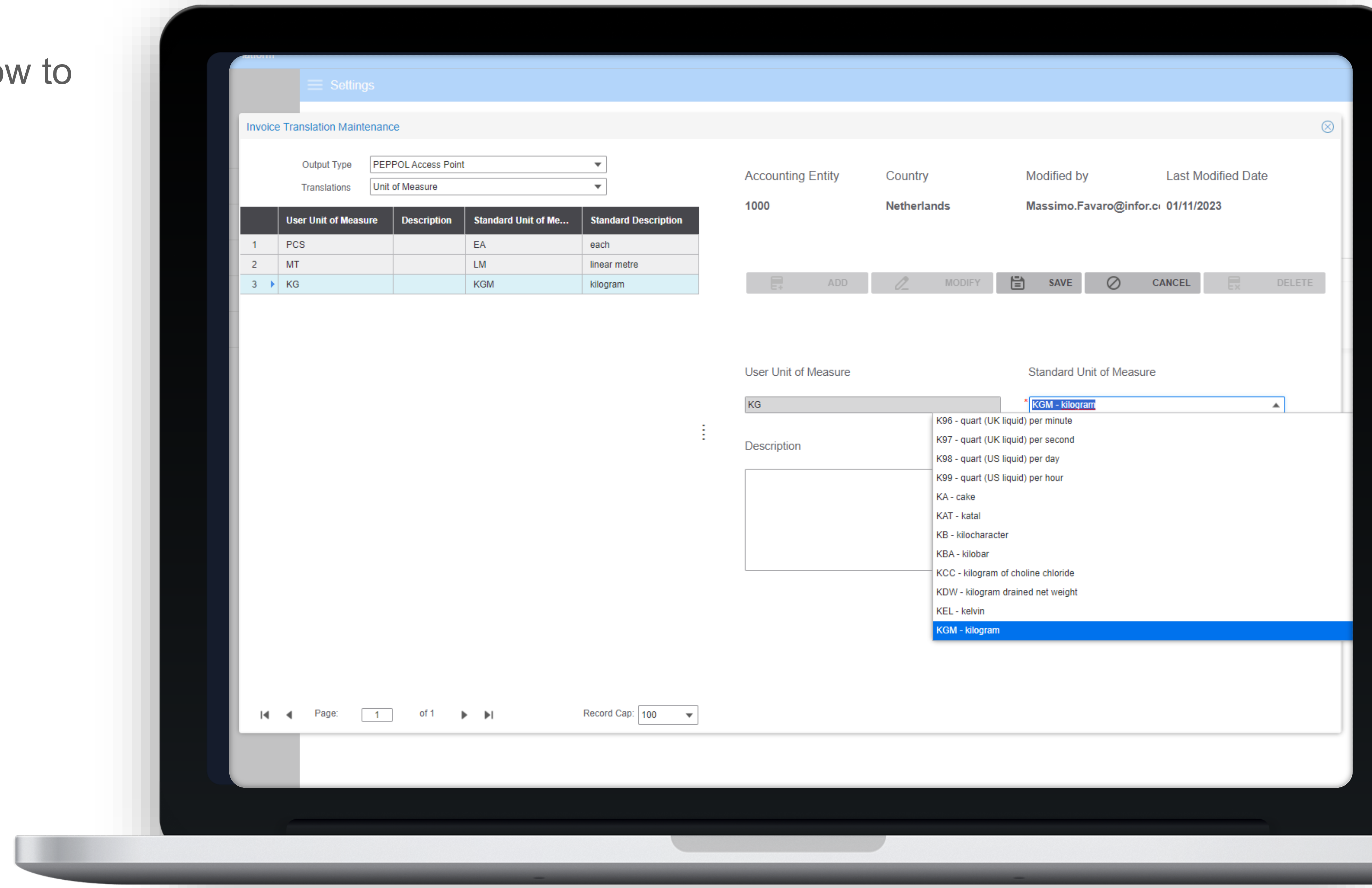
- The option displays a list of applications for Settings, which may vary for each country or service (in this example: settings for PEPPOL E-Invoicing for the Netherlands)

- Typical settings are:
  - Customer endpoint maintenance
  - Invoice translations maintenance
  - Defaults
  - Text maintenance
  - Etc.



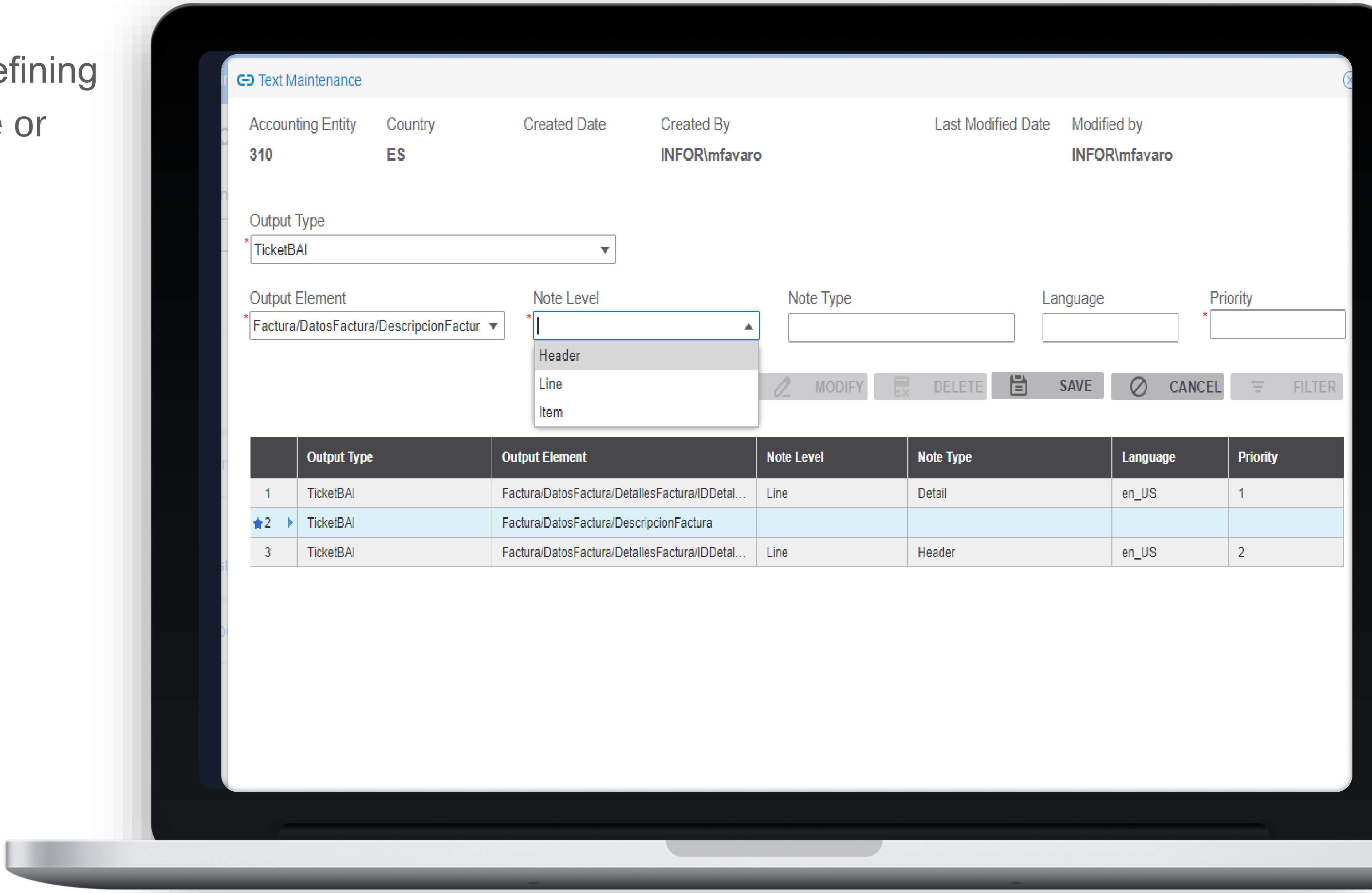
Using LSP: Settings

- The “Invoice Translation Maintenance” settings allow to define the personalized mappings for:
  - Invoice Types
  - Payment Methods
  - Tax and Tax Exemption codes
  - Units
  - etc.



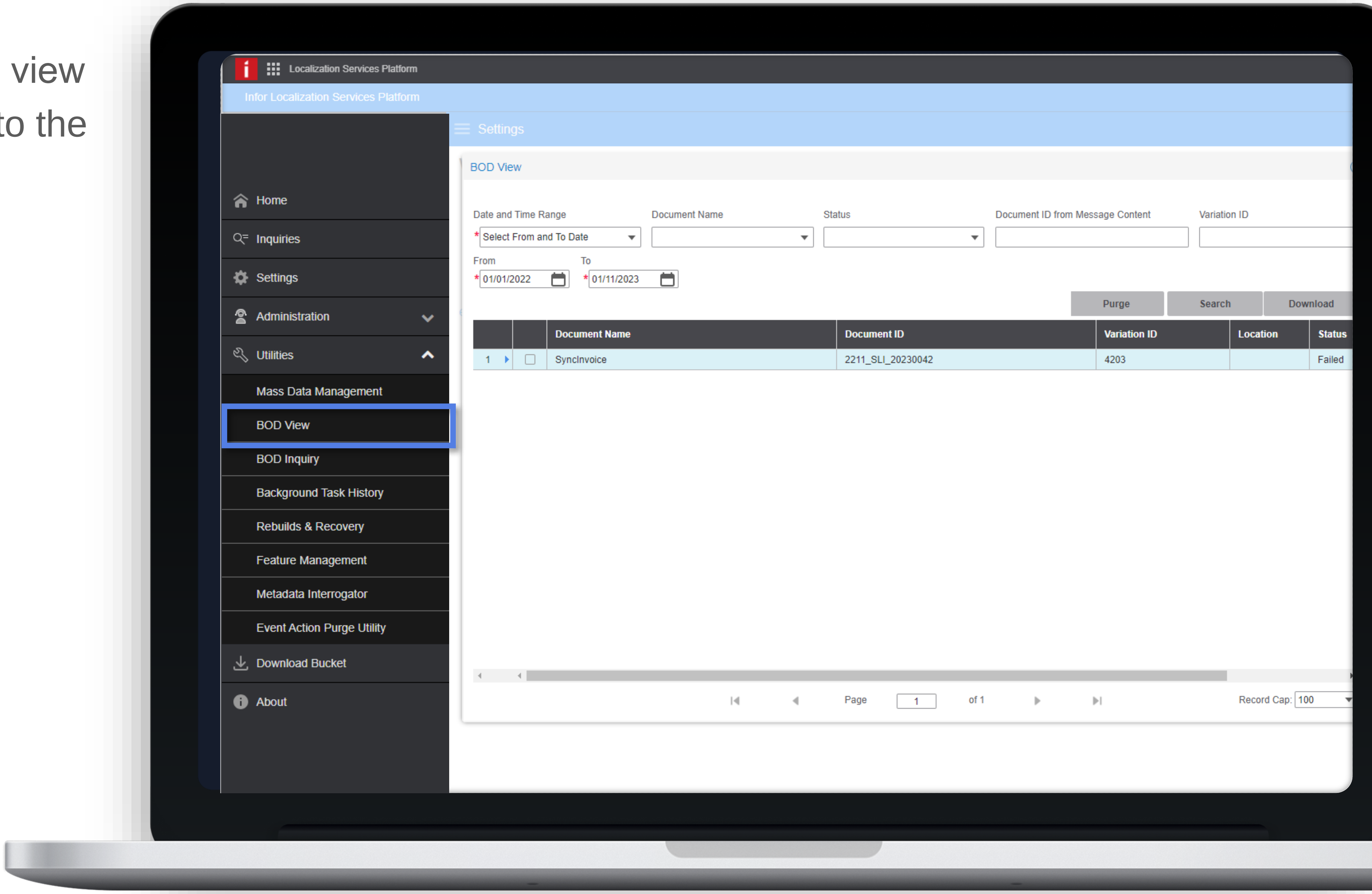
Using LSP: Settings

- The “Text maintenance” session can be used for defining how notes should be considered and added, at line or header level.



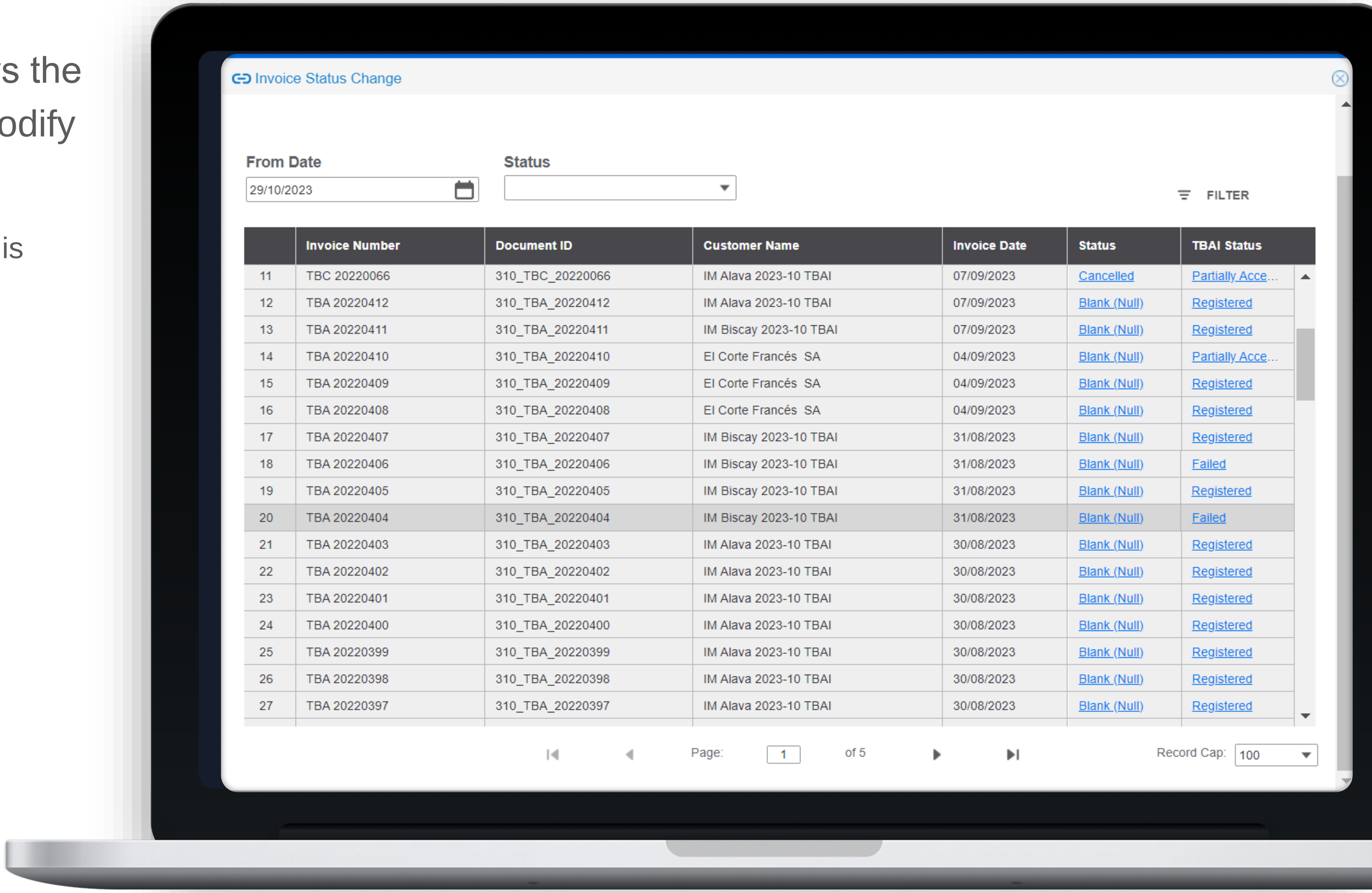
Using LSP: Utilities

- “BOD view” is a utility that allows quickly searching, view the status, and downloading the BODs shredded into the LSP database



Using LSP: Utilities

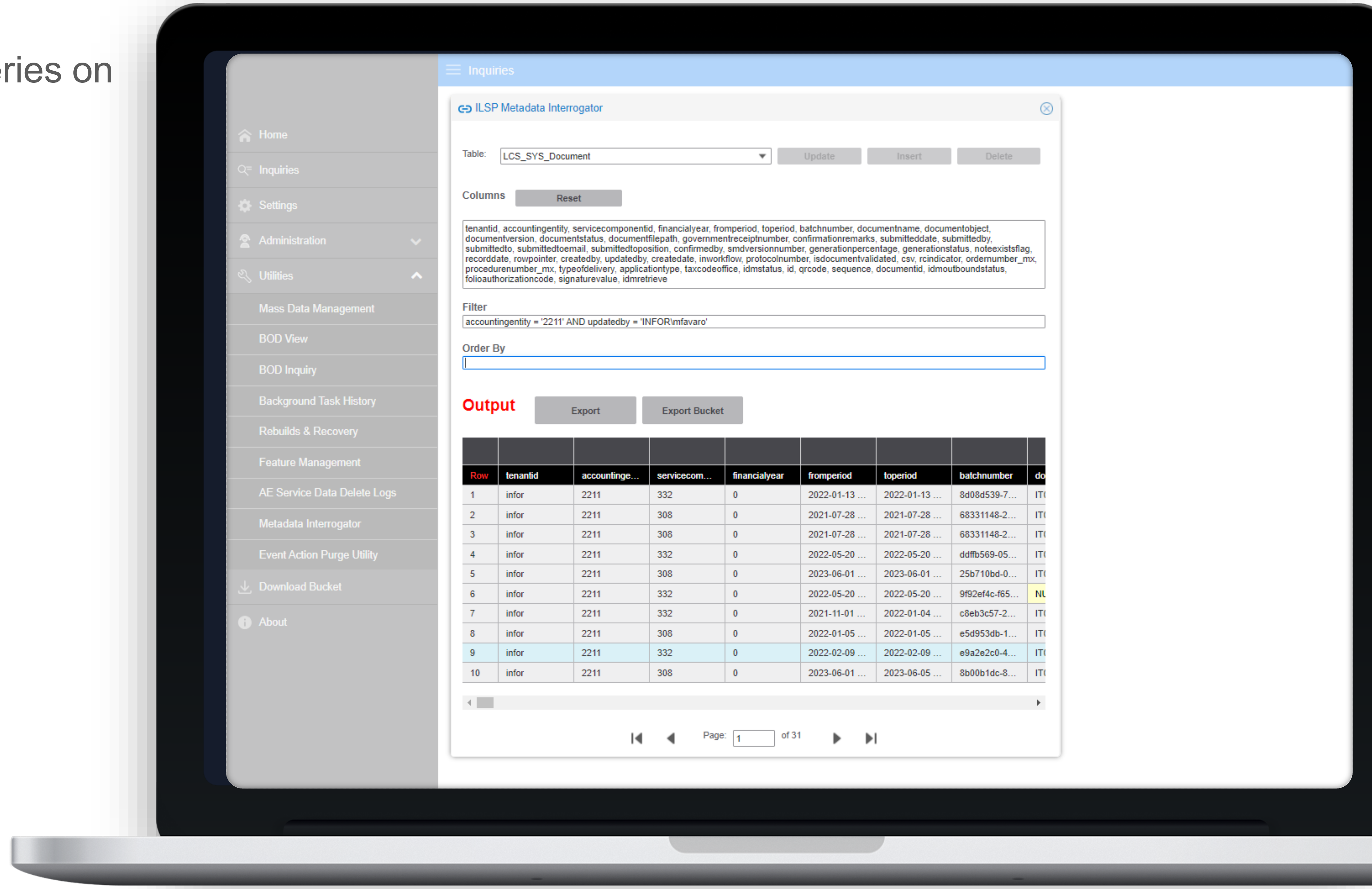
- The utility “Tax Invoice Status Maintenance” displays the documents processed by a service and allows to modify their statuses
    - Tax Invoice Status Maintenance/Invoice Status Maintenance is available in the subfolder Utilities > Rebuilds & Recovery.



	Invoice Number	Document ID	Customer Name	Invoice Date	Status	TBAI Status
11	TBC 20220066	310_TBC_20220066	IM Alava 2023-10 TBAI	07/09/2023	Cancelled	Partially Acce...
12	TBA 20220412	310_TBA_20220412	IM Alava 2023-10 TBAI	07/09/2023	Blank (Null)	Registered
13	TBA 20220411	310_TBA_20220411	IM Biscay 2023-10 TBAI	07/09/2023	Blank (Null)	Registered
14	TBA 20220410	310_TBA_20220410	El Corte Francés SA	04/09/2023	Blank (Null)	Partially Acce...
15	TBA 20220409	310_TBA_20220409	El Corte Francés SA	04/09/2023	Blank (Null)	Registered
16	TBA 20220408	310_TBA_20220408	El Corte Francés SA	04/09/2023	Blank (Null)	Registered
17	TBA 20220407	310_TBA_20220407	IM Biscay 2023-10 TBAI	31/08/2023	Blank (Null)	Registered
18	TBA 20220406	310_TBA_20220406	IM Biscay 2023-10 TBAI	31/08/2023	Blank (Null)	Failed
19	TBA 20220405	310_TBA_20220405	IM Biscay 2023-10 TBAI	31/08/2023	Blank (Null)	Registered
20	TBA 20220404	310_TBA_20220404	IM Biscay 2023-10 TBAI	31/08/2023	Blank (Null)	Failed
21	TBA 20220403	310_TBA_20220403	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered
22	TBA 20220402	310_TBA_20220402	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered
23	TBA 20220401	310_TBA_20220401	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered
24	TBA 20220400	310_TBA_20220400	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered
25	TBA 20220399	310_TBA_20220399	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered
26	TBA 20220398	310_TBA_20220398	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered
27	TBA 20220397	310_TBA_20220397	IM Alava 2023-10 TBAI	30/08/2023	Blank (Null)	Registered

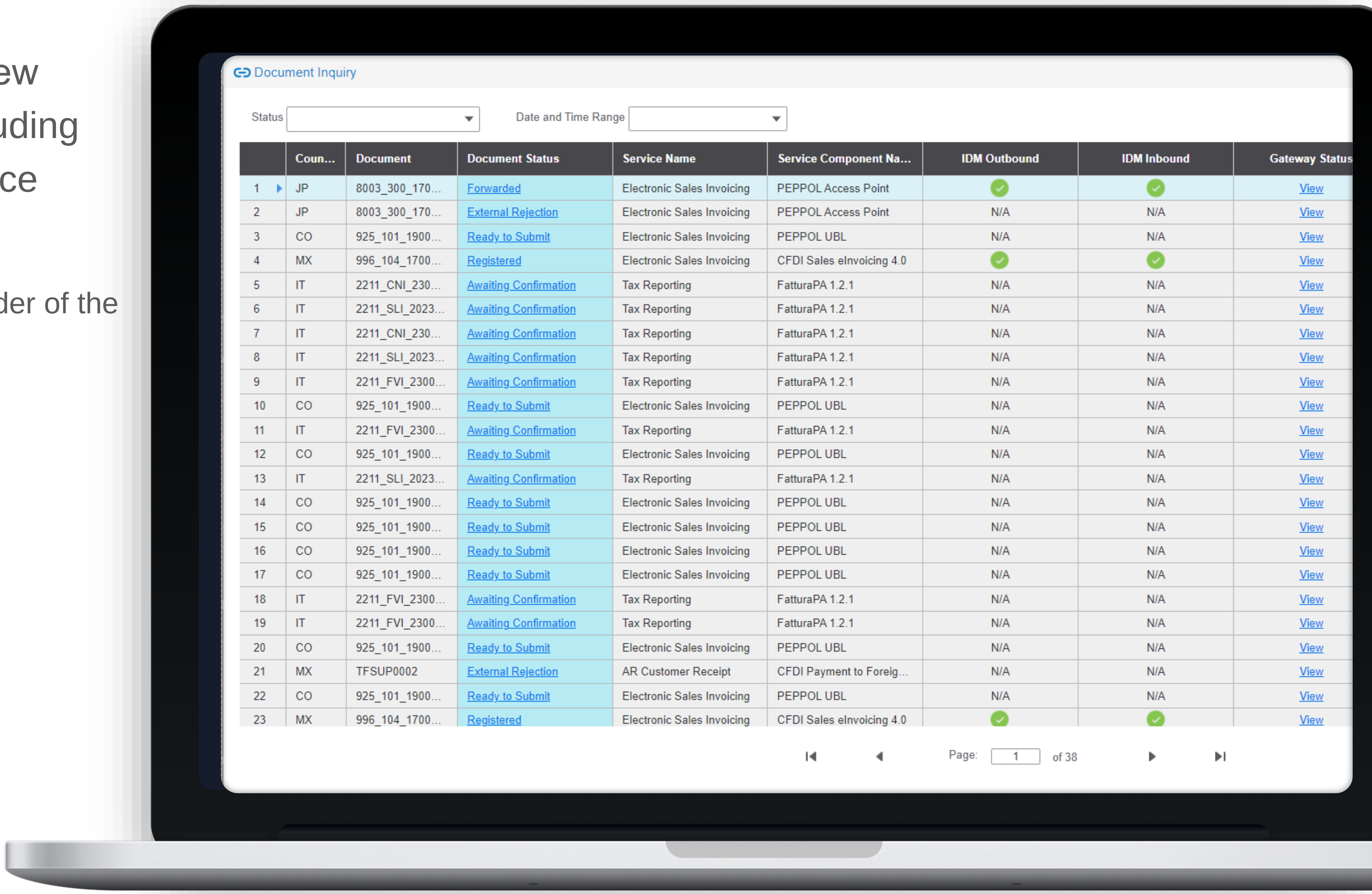
Using LSP: Utilities

- The utility “Metadata interrogator” allows to run queries on the LSP database
  - Specify the table from the Table dropdown list
  - Specify a filter and the output sorting



Using LSP: Document Inquiry

- “Document inquiry” allows to have a general overview about the documents being processed by LSP, including the connectivity (gateway status), the relevant service status, the integration with IDM.
  - This utility is available within Administration / Connectivity folder of the menu.


Document Inquiry

Status | Date and Time Range

	Coun...	Document	Document Status	Service Name	Service Component Na...	IDM Outbound	IDM Inbound	Gateway Status
1	JP	8003_300_170...	Forwarded	Electronic Sales Invoicing	PEPPOL Access Point			View
2	JP	8003_300_170...	External Rejection	Electronic Sales Invoicing	PEPPOL Access Point	N/A	N/A	View
3	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
4	MX	996_104_1700...	Registered	Electronic Sales Invoicing	CFDI Sales eInvoicing 4.0			View
5	IT	2211_CNI_230...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
6	IT	2211_SLI_2023...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
7	IT	2211_CNI_230...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
8	IT	2211_SLI_2023...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
9	IT	2211_FVI_2300...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
10	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
11	IT	2211_FVI_2300...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
12	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
13	IT	2211_SLI_2023...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
14	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
15	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
16	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
17	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
18	IT	2211_FVI_2300...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
19	IT	2211_FVI_2300...	Awaiting Confirmation	Tax Reporting	FatturaPA 1.2.1	N/A	N/A	View
20	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
21	MX	TFSUP0002	External Rejection	AR Customer Receipt	CFDI Payment to Foreig...	N/A	N/A	View
22	CO	925_101_1900...	Ready to Submit	Electronic Sales Invoicing	PEPPOL UBL	N/A	N/A	View
23	MX	996_104_1700...	Registered	Electronic Sales Invoicing	CFDI Sales eInvoicing 4.0			View

Page: 1 of 38

LSP Implementation

LSP Implementation

1. LSP Deployment
2. IFS: Roles Configuration
3. ION: document flow between LSP and ION
4. LSP: Configuration
5. LN: Country specific / BOD parameters

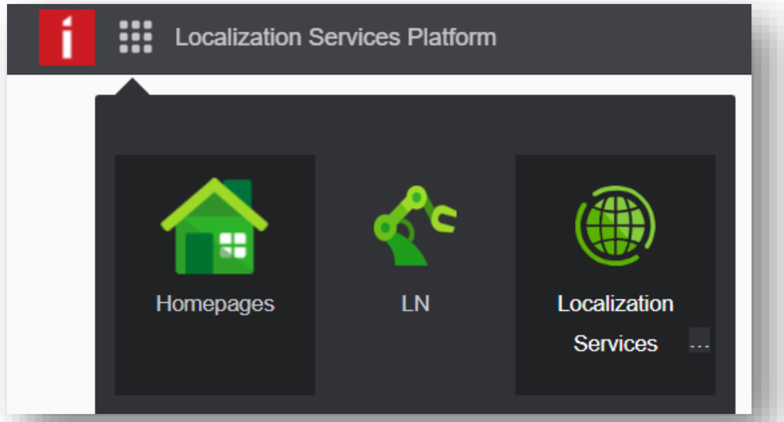
Interactive Briefing

LSP Implementation

LSP Deployment

LSP implementation phases: LSP Deployment

- **LSP Deployment:**
  - Done by Cloud Ops during deployment
  - For on premise customers: LSP packages are available on KB 2275778
  - Tax Connector may be required separate installation
- **LSP becomes available from the Infor App menu**



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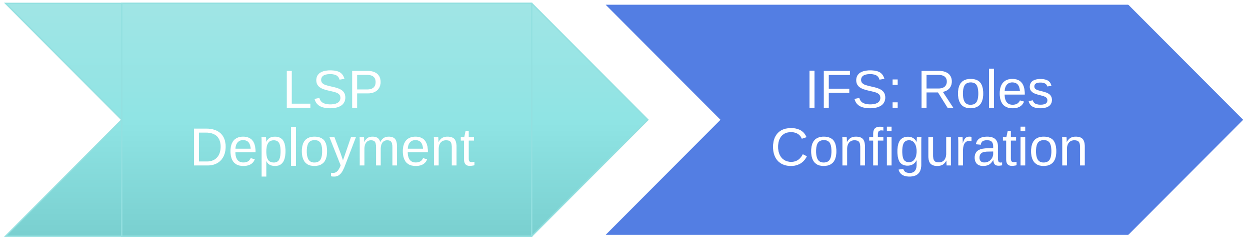
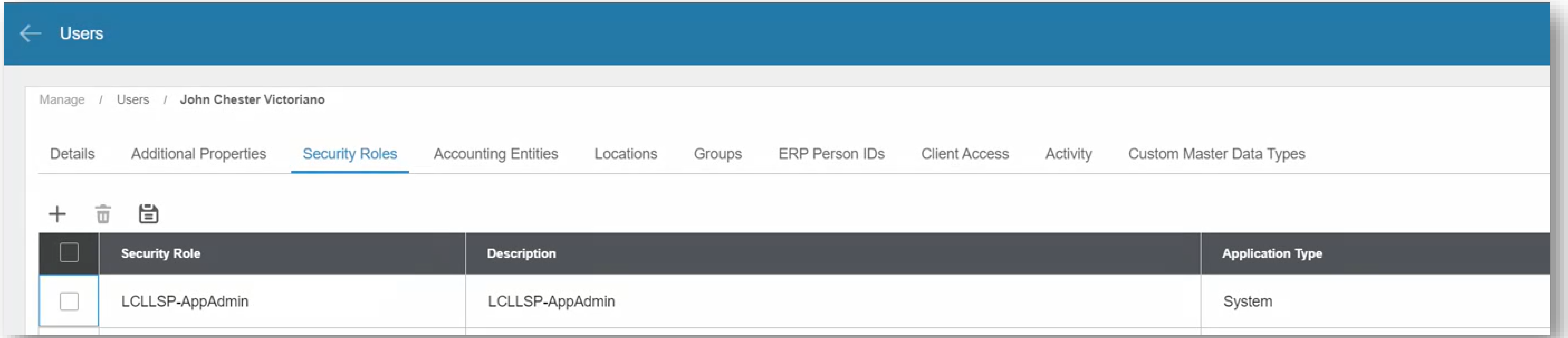
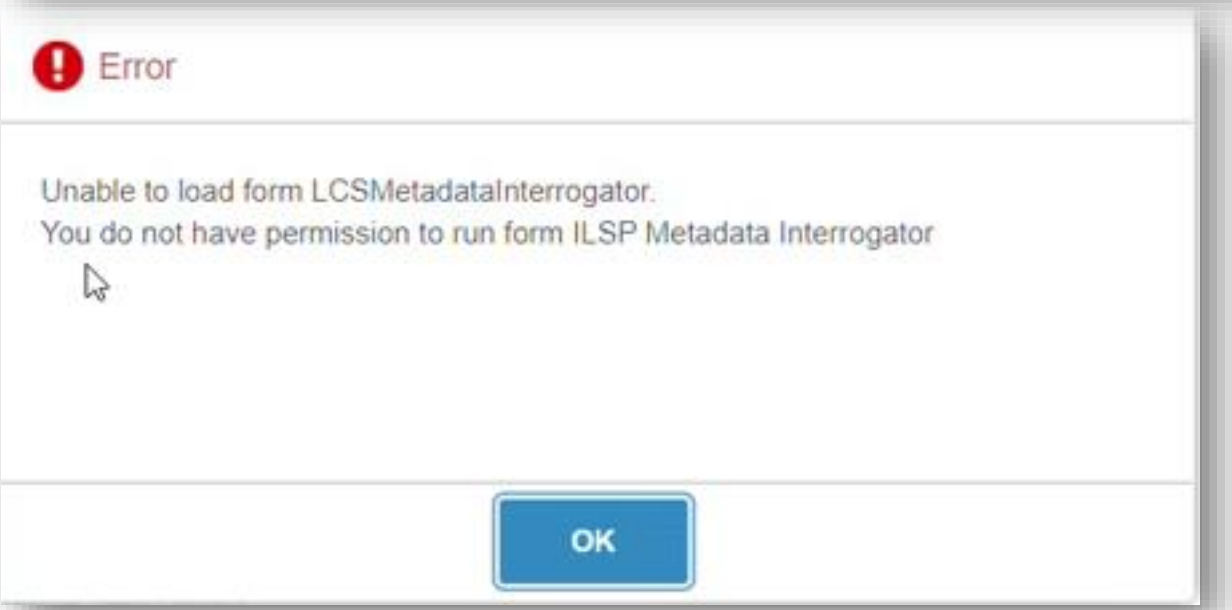
LSP Implementation



LSP implementation phases: IFS Roles for LSP





Symptoms:

- LSP may not be accessible
- Error “you do not have permission” appears when opening certain LSP forms
- Changes in LSP forms cannot be saved

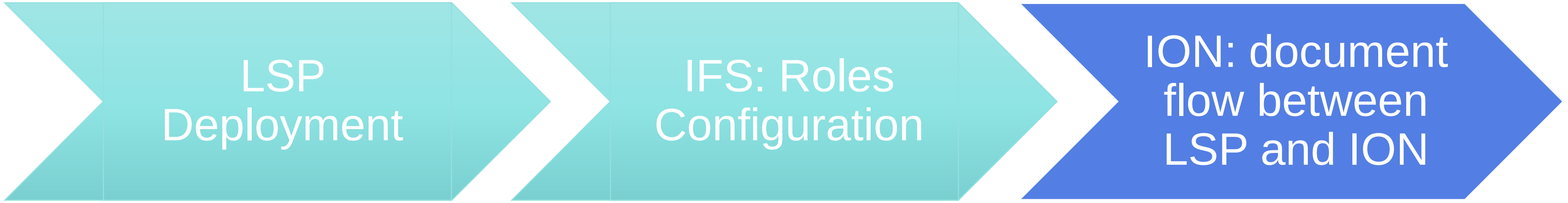
Note: it is required to set-up the Document Flow for syncing IFS user details to LCLSP

LSP implementation phases: Examples of IFS Roles

Type of user	Select roles
Users with this role can perform these tasks: • Access most forms except administrative or Interrogator forms • Perform some maintenance and subscription preference tasks.	LCLLSP-User
Users with both of these roles can perform these tasks: • Access all forms except the Metadata Interrogator • Perform all maintenance and subscription preference tasks • Create new subscriptions or update subscriptions • Perform Tenant ID Management tasks • Perform other admin tasks such as view background task history, connectivity inquiries, configuring timed jobs, and recovering connectors • Perform BOD inquiry	LCLLSP-Admin LCLLSP-User
Users with all of these roles can perform all of the tasks above, plus: • Access the Metadata Interrogator form and to Mongoose forms. These are tasks done under exception-al circumstances, rather than by rule.	LCLLSP-AppAdmin LCLLSP-Admin LCLLSP-User
Users with all of these roles can perform all of the tasks above, plus: • Access and use the inquiry forms in the Metadata Interrogator	LCLLSP-DataReader LCLLSP-AppAdmin LCLLSP-Admin LCLLSP-User

Interactive Briefing

LSP Implementation



LSP implementation phases: ION Configuration (step by step)

1. Find the latest “Changes and announcements KB” (currently KB 2275831 for year 2023)
2. Find for latest LSP package version (the zipped file looks like LSP XXXX.XX ION.zip, last version currently is LSP 2021.10 ION.zip) attached to the KB.
   a) Download the zipped file
   b) Unzip it.

LSP 2021.10 ION.zip

KB 2275831

Changes and announcements for LSP co-reqs and GEMS 2023

Attachments (48) | Linked KBs (0) | Linked Incidents (51) | Linked Defects (0) | Signed Up | Add to Favorites |

Description:

All changes for the InforOS co-requisites for LSP and GEMS are delivered here for both cloud and on premise deployments. See attachments for the zip files. Please go to the last page for the latest files.

Details of the changes can be found in the attached Resolved Issue document.

Resolution:

The following packages are available:

Release	LSP	ION	ION API	IDM	XSLT	Cryptography	Generate CSR	GEMS	Bank Statement	Credit Transfer	Debit Transfer	Trade Statistics	Tax Reporting	Supplier Invoice
1st of September										2023.09		2023.09		2023.09
7th of August									2023.08	2023.08	2023.08	2023.08		2023.08
28th of July					2023.09									
30th of June				2023.08						2023.07				
5th of June									2023.06	2023.06				2023.06
8th of May									2023.05	2023.05				2023.05
2nd of May					2023.05									
3rd of April									2023.04	2023.04		2023.04		
23rd of March				2023.04										
6th of March					2023.03					2023.03		2023.03		
6th of February									2023.02	2023.02		2023.02		
16th of January							2023.01							
3rd of January										2023.01		2023.01		2023.01
	2021.10	2022.10	12.0.98	2022.11	2022.11		2022.11							

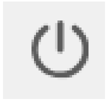
LSP implementation phases:
ION Configuration (step by step)

3. In ION Desk, import the “ERP to LSP” document flow

4. Add the LN connection points that are used in this integration. Edit an ERP connection point to add the list of BODs that are sent by LN through this document flow. Send from / Receive from Application for each BOD

5. In the document flow, select the LSP application box and add the LSP connection point.

6. Click the document icon between the application boxes and add the appropriate BODs.

7. Activate the document flow. 

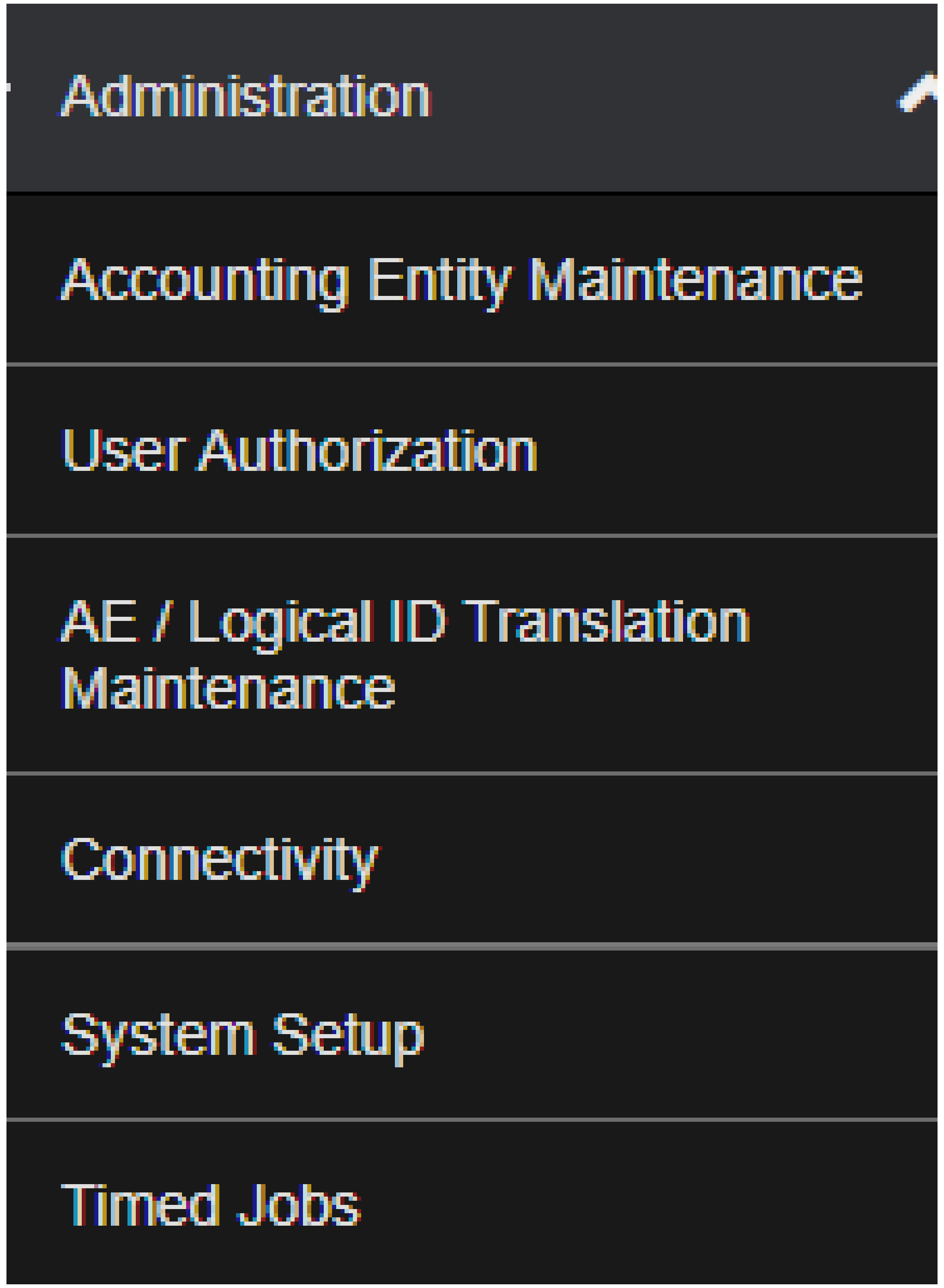
Interactive Briefing

LSP Implementation

LSP implementation phases: LSP Technical configuration

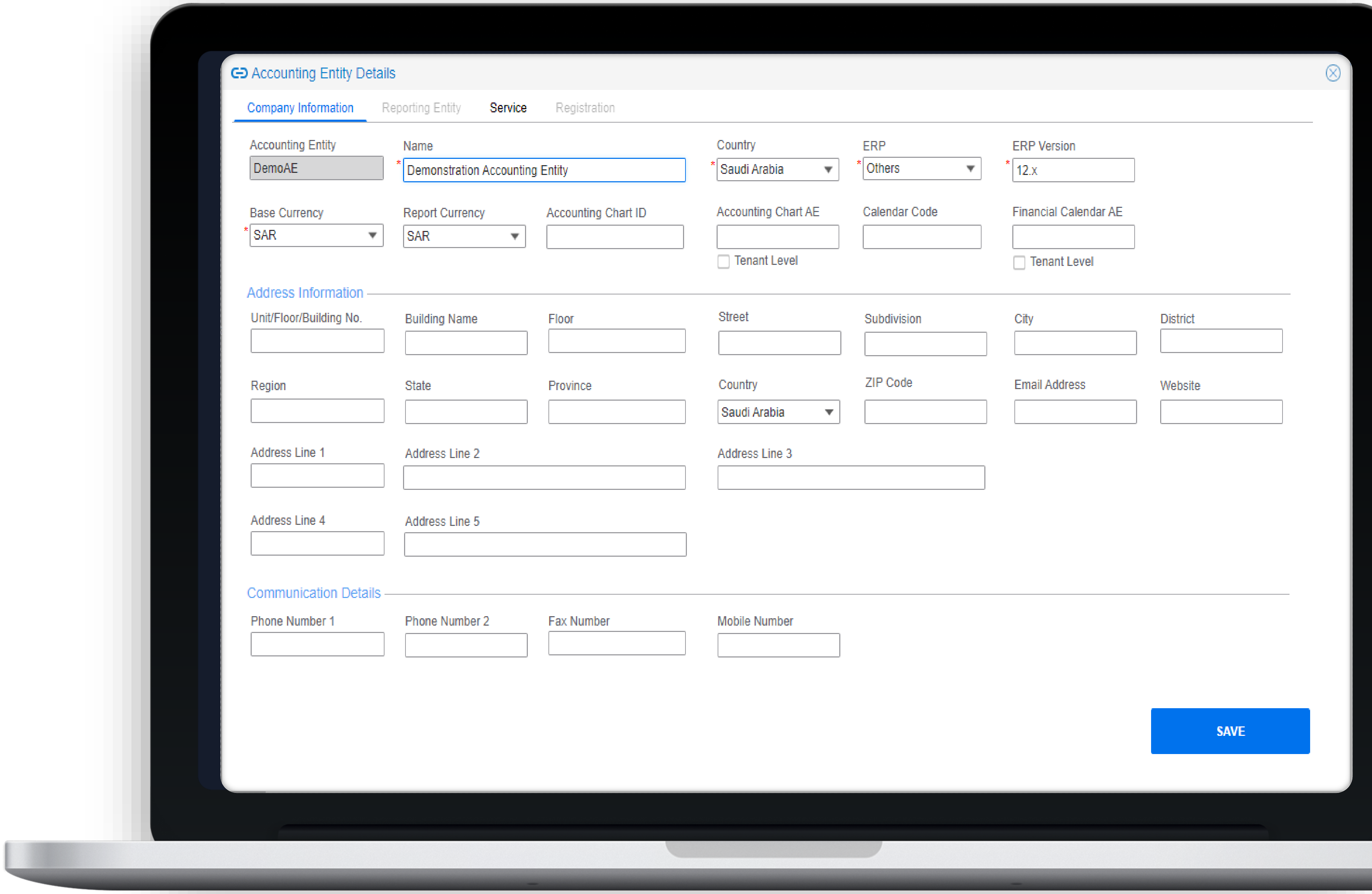
Which LSP functions are required for your service?

1. Accounting Entity
   - Services
2. User authorization
3. Connectivity
4. System Set-up
   - Push reporting / timed jobs
   - IDM integration
   - Invoice registration
   - Supplementary data / Addendas



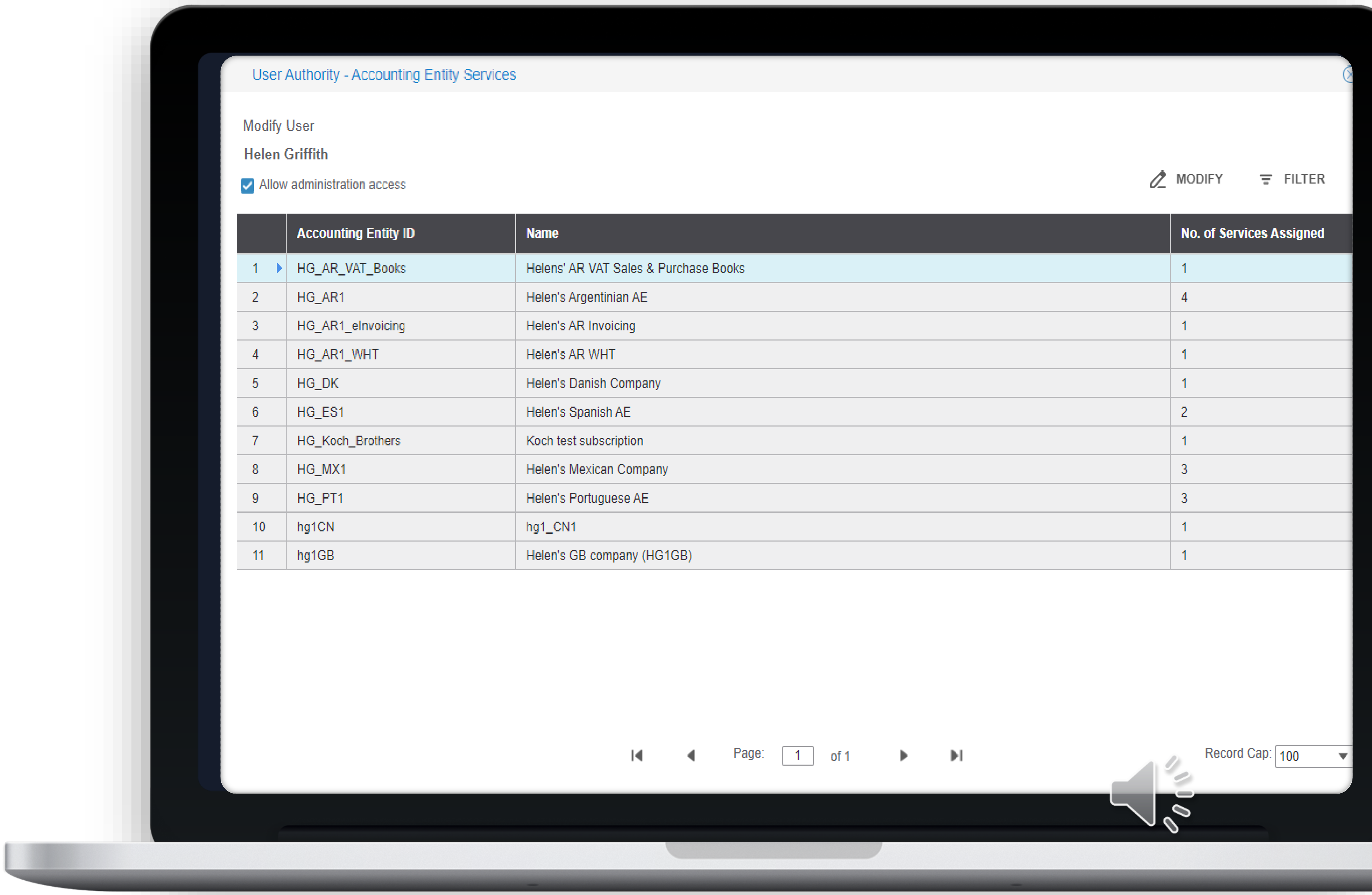
LSP implementation phases: LSP Technical configuration

- Accounting Entity Maintenance
  - Company details
  - Accounting Master Data
  - Select Services
  - IDM Usage
  - Service-Specific settings



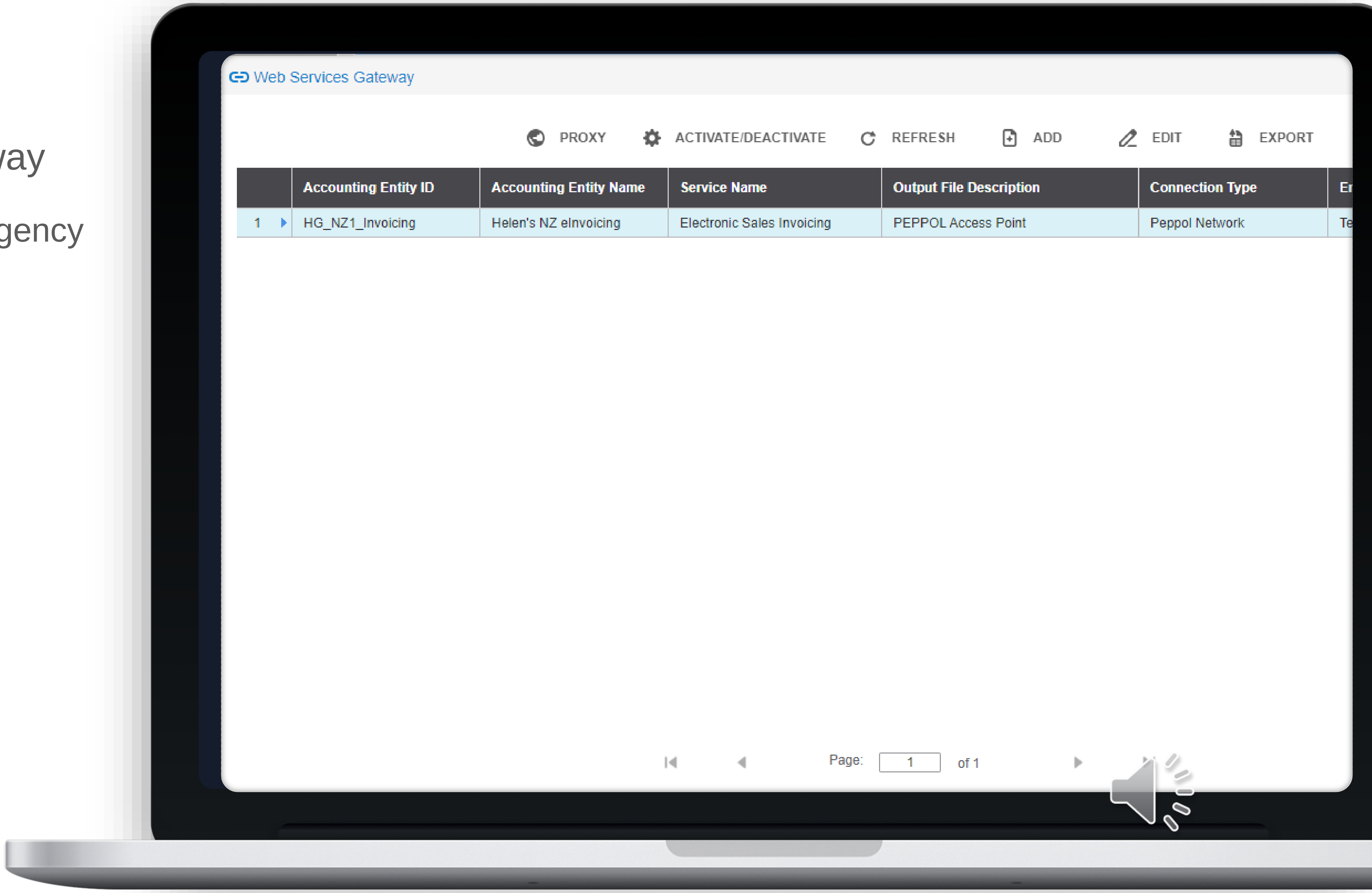
LSP implementation phases: LSP Technical configuration

- User Authorization
  - Uses OS Portal roles
  - Administrator access
  - Select Services
  - Copy users



LSP implementation phases: LSP Technical configuration

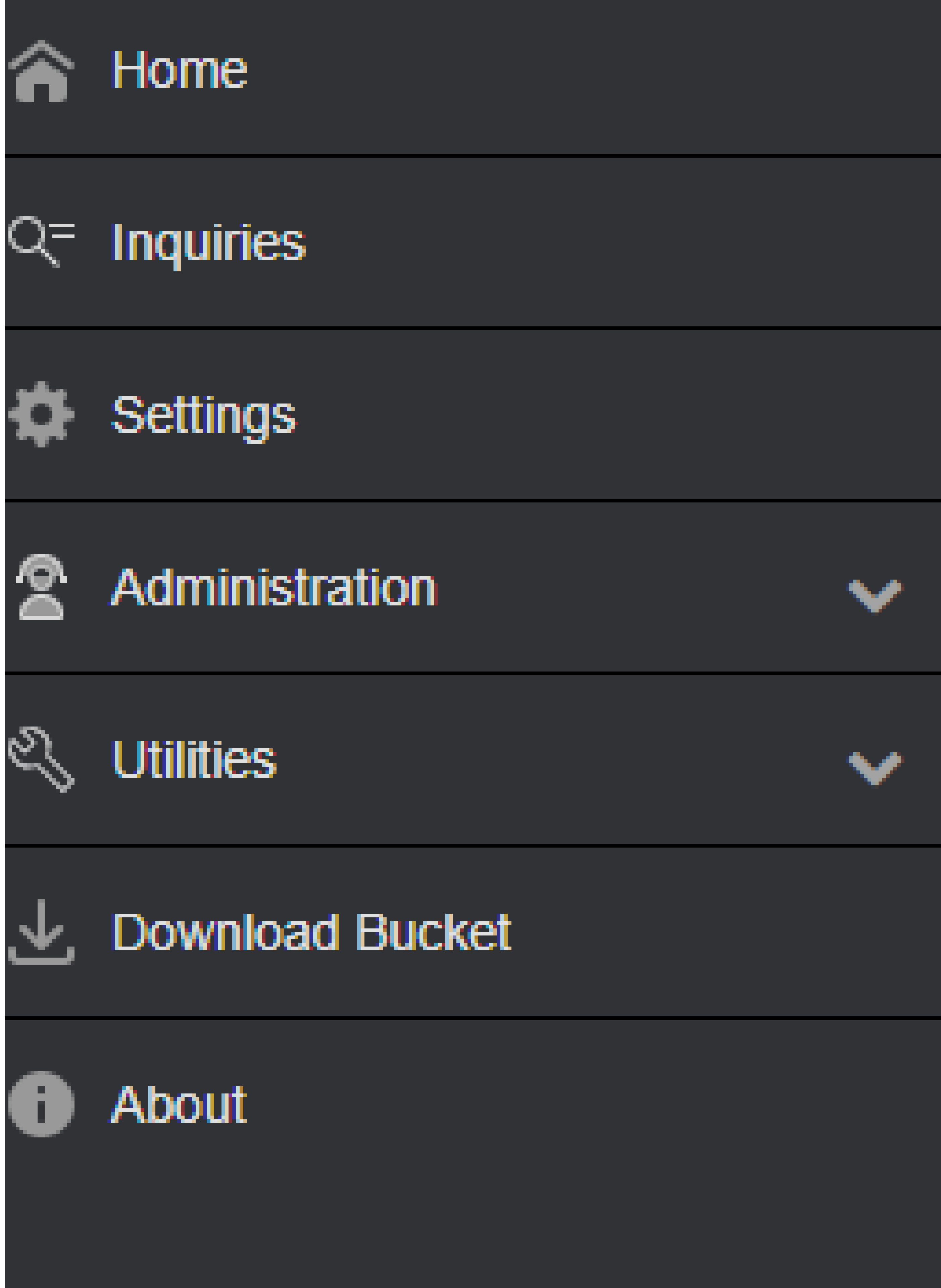
- Connectivity
  - Administration/Connectivity/Web Services Gateway
    - Direct connectivity to a third party government or agency
    - Indirect connectivity to a third party through ION
  - Certificate and Key Store



LSP implementation phases: LSP Functional configuration

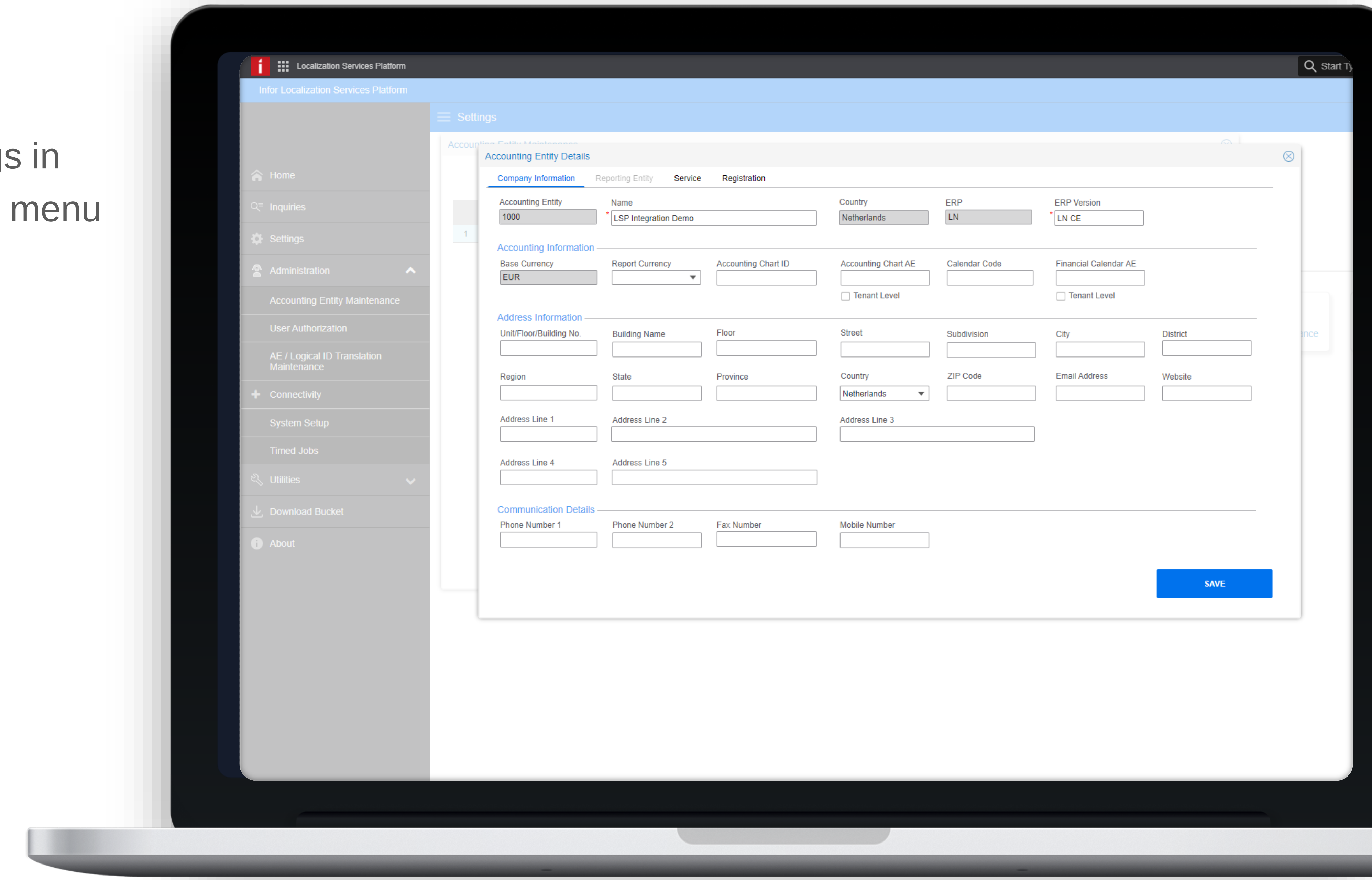
What functional set-up is required for your service?

- System Set-up
- Default codes
- Translations
- Decide which invoice is generated
- Additional master data



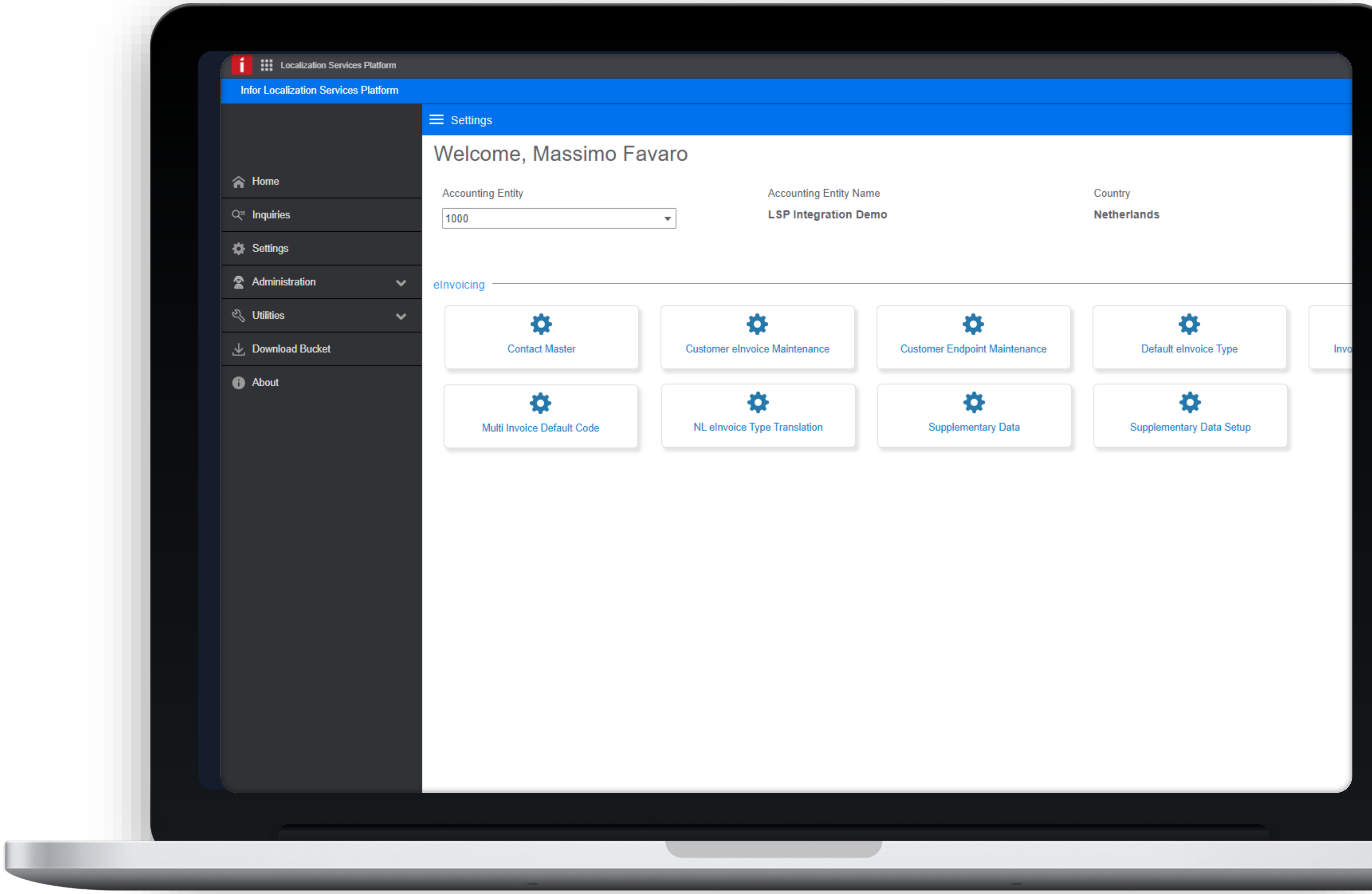
LSP implementation phases: LSP Functional configuration

- LSP system set up:
  - The available forms may depend on the settings in Accounting Entity Maintenance (Administration menu folder)
    - Country
    - ERP
    - Services assigned to each AE
    - Etc.



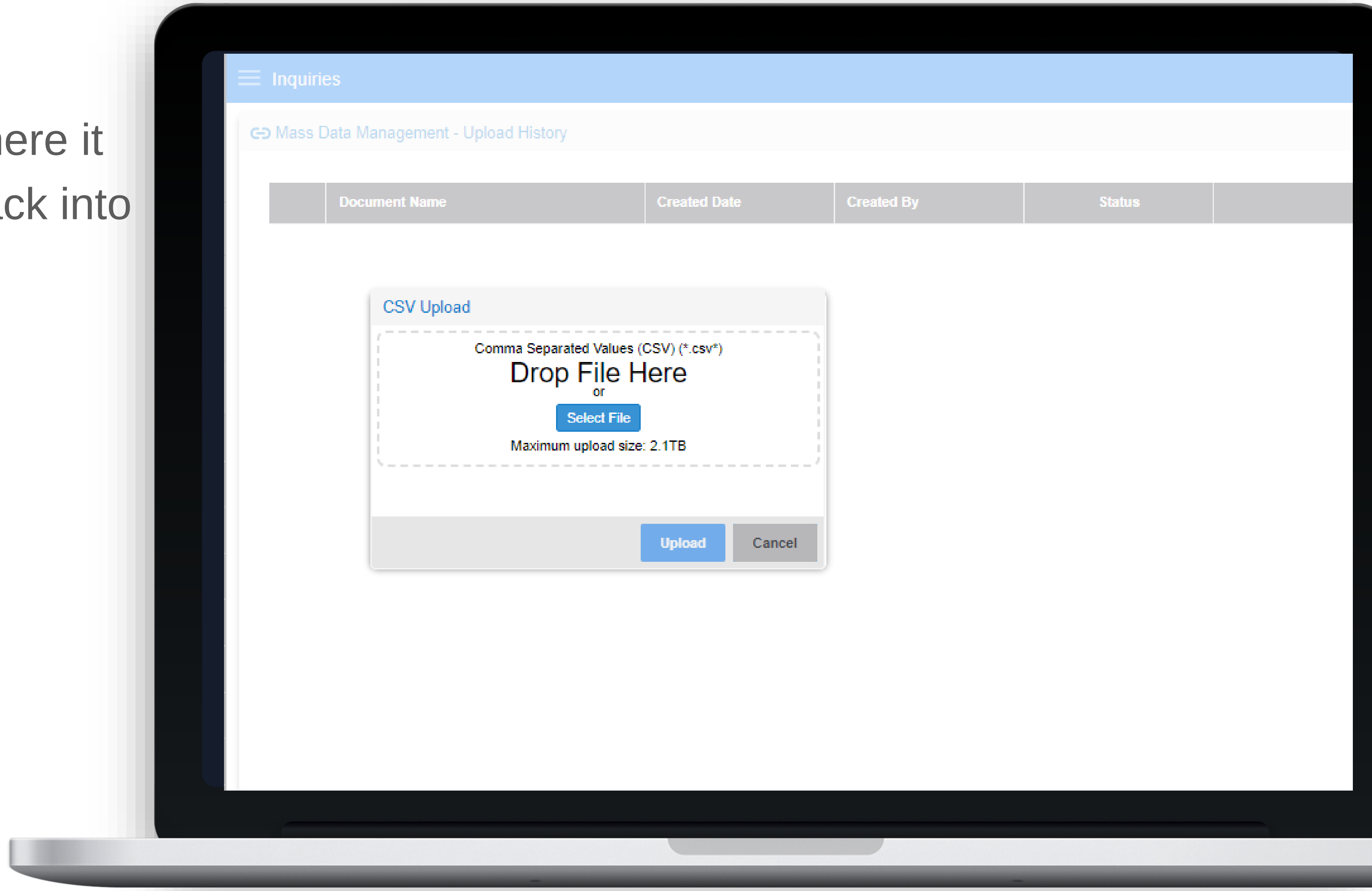
LSP implementation phases: LSP Functional configuration

- Settings:
  - Default Codes
  - Translations
  - Text maintenance
  - Multi-invoice options
  - Additional set-up



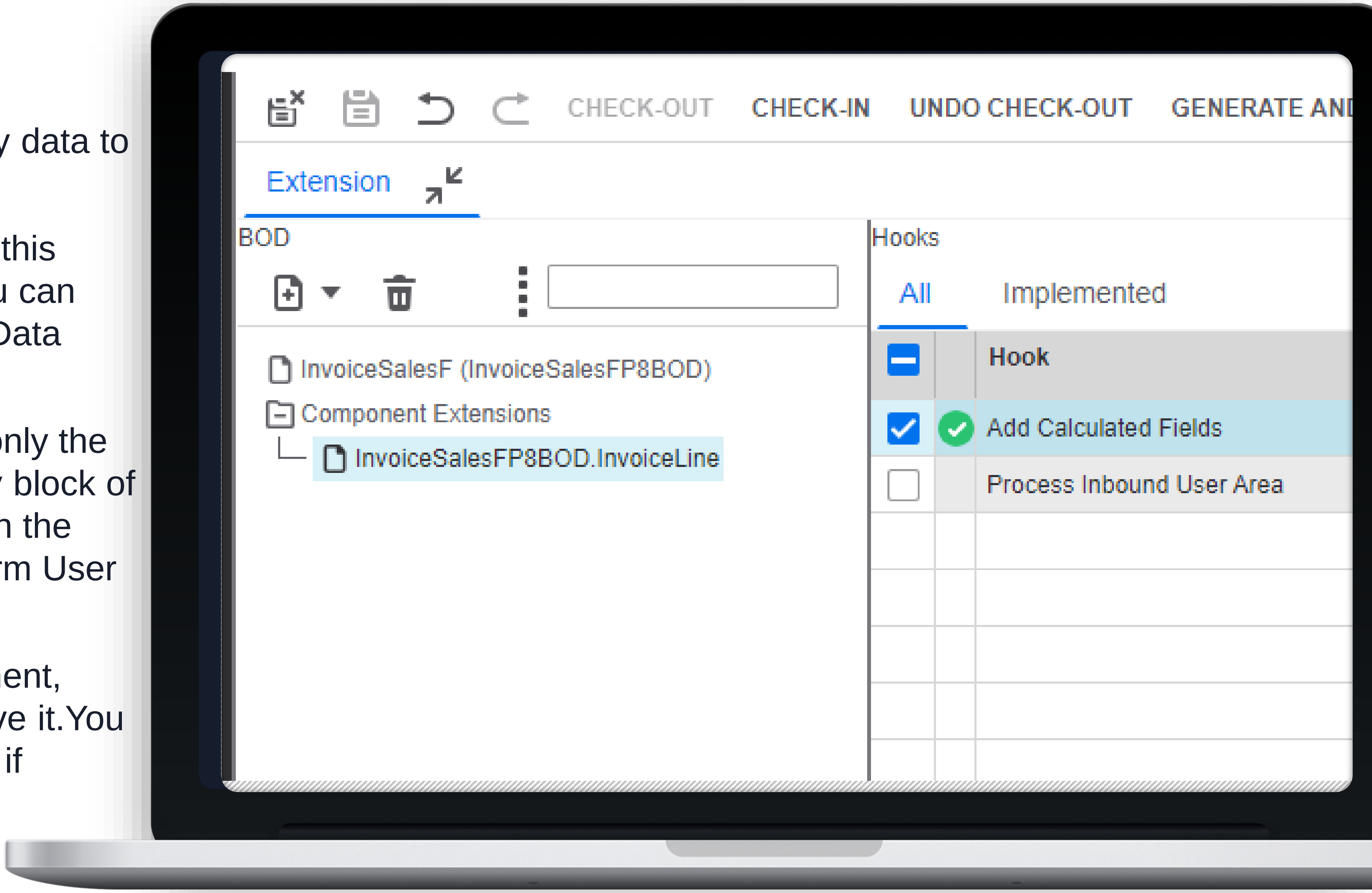
LSP implementation phases: LSP Functional configuration

- "Mass data management" allows users to download LSP data into a spreadsheet where it can be manipulated and then uploaded back into LSP thru CSV files.
  - Add data in a spreadsheet and upload to LSP
  - Download from database and amend data



LSP implementation phases: LSP Functional configuration

- Supplementary Data
  - An XSLT Stylesheet is used to add supplementary data to the e-invoice
  - The templates are provided in KB #2275831 with this filename format: LSP <version> Std XSLT.zip. You can upload this into LSP through the Supplementary Data Setup option.
  - You can use the files to modify the XSLT so that only the fields you require are stored in the supplementary block of invoices. A full list of available data are provided in the appendix of the Infor Localization Services Platform User Guide.
  - To change the XSLT file, you must edit the document, delete the elements that are not required, and save it.You can also change the name of the file at this stage if required



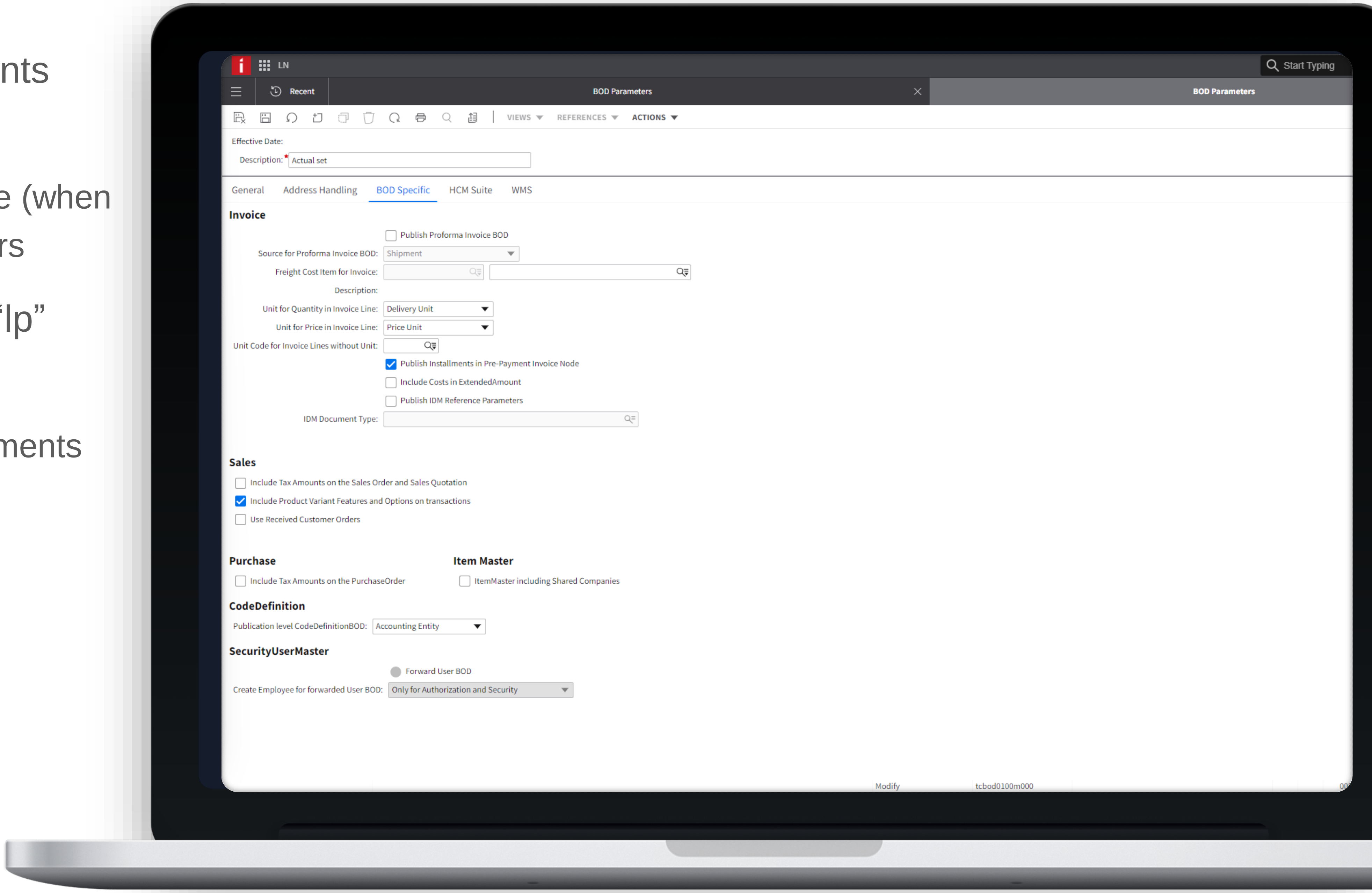
Interactive Briefing

LSP Implementation

- LSP Deployment
- IFS: Roles Configuration
- ION: document flow between LSP and ION
- LSP: Configuration
- LN: Country specific / BOD parameters

LSP implementation phases: LN configuration

- BOD Parameters like Unit of measure, Installments handling.
  - Consult the release notes and the integration guide (when available) for correctly defining the BOD parameters
- Localized settings like standard LN standard or “lp” master data, settings, sub-invoice types, etc.
  - Depending on the localization and country requirements



Infor Localization Services GEMS

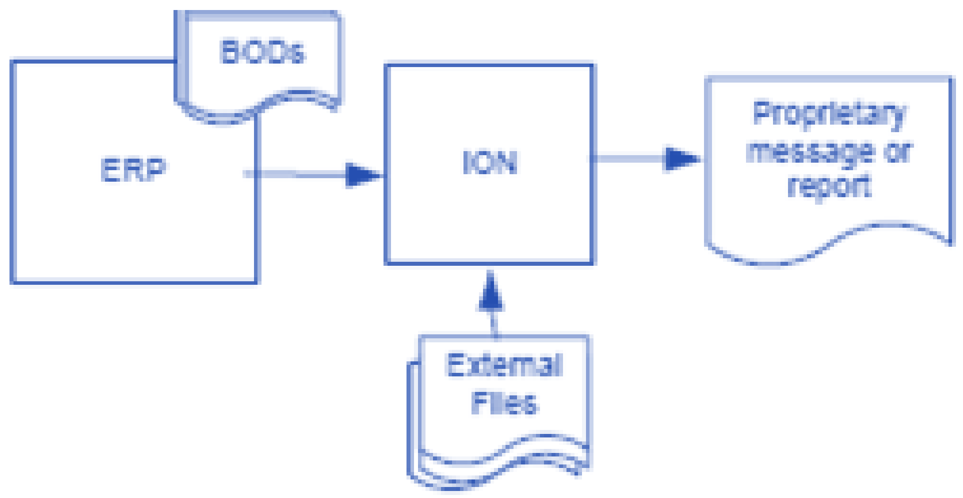
What is GEMS?

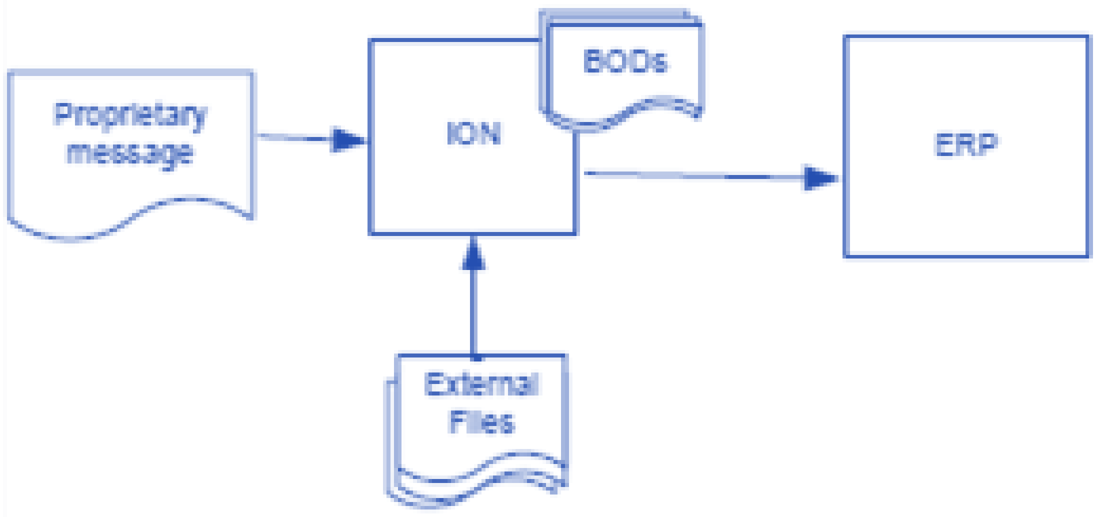
- The Global Electronic Message Service (GEMS) functionality is capable of processing the following electronic messages:
  - Supplier invoices
  - Banking files (credit transfer, direct debit, EBS)
  - Intrastat files
- GEMS is executed within ION and it has no user interface: it is just “ION content”
- In the outbound flow, after the LN BOD detection, GEMS performs a BOD content validation, a data is completed if required and a transformation into the proprietary message is performed
- In the inbound flow, the proprietary message is transformed in a BOD

LN-ILS Integration scheme: GEMS integration

Some document flows do not use LSP. Instead, the transformation work is done in ION.
The flows can move in these two directions:

- **Outbound from LN**: a BOD is transformed through ION mappings and workflows into a proprietary format message, intended for a particular government or financial institution.
- **Inbound to LN:** a proprietary format message that was sent from a government or financial institution is transformed through ION mappings and workflows into a BOD, that can be consumed by the ERP.





GEMS for Banking Files

GEMS for Banking file generation: benefits

- This integration aims to support the generation of the bank file in a simple and fully standardized manner, without need of complex mapping in XML Payment/Receipt Layouts (tfcmg0524m000), or of additional customizations, for example using Extensibility

- Other international or local Credit Transfer files can be generated through the GEMS solution, with minimum additional configuration.

GEMS Banking file adoption

Bank Statements	*For example, Bank Statement camt.053.001.02 for multiple countries*
Credit Transfers	*For example, ABA Credit Transfer file for Australia*
Direct Debits	*For example, SEPA Debit Transfer pain.008.001.06 ISO 20022 for multiple countries*

Process: Credit Transfer and Direct Debits

LN

- Using the dedicated Payment/Receipt method:
  - Select the invoice(s)
  - Compose the automatic payment
  - Assign banks
  - Complete audit steps
- The DirectDebit/ CreditTransfer BOD is published at the end of the payment procedure

ION

- Temporary stores the file in the folder shared with GEMS

ILS GEMS

- The GEMS mapping is triggered automatically
- The file is read from the shredding folder and archived
- The generated credit transfer or direct debit file is saved in the designed destination folder

BANK

- The file is transmitted to the bank which processes the payment
- The communication with the bank can be using different channels (shared folder, FTP, email, corporate banking…)

Process: Bank Statements

BANK

- The file is received from the bank
- Note: the communication with the bank can be using different channels (shared folder, FTP, email, corporate banking…)

ILS GEMS

- The EBS is read from designed folder
- The GEMS mapping is triggered automatically
- A BOD is generated

ION

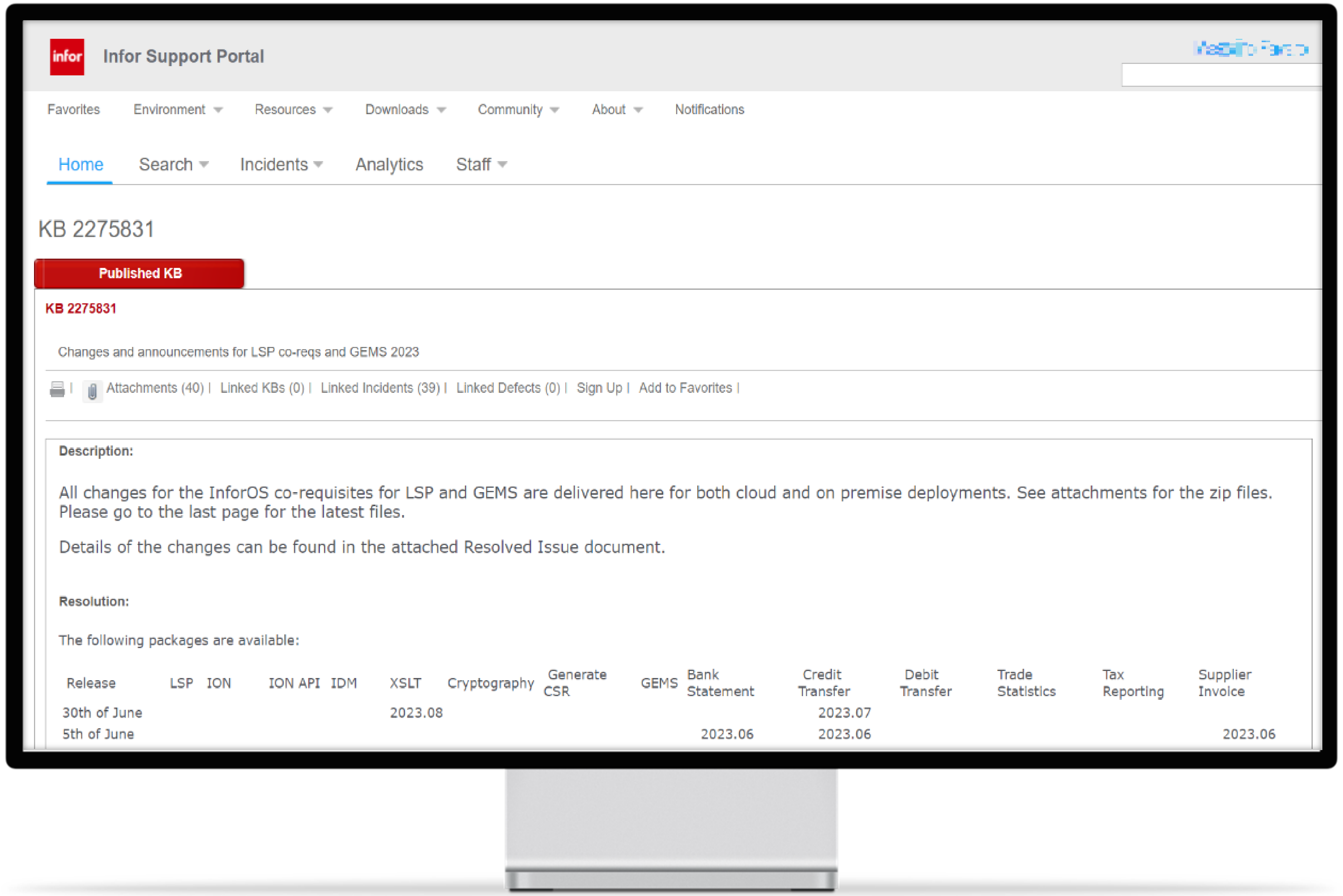
- Temporary stores the BOD in the folder shared with ION

LN

- The Statement lines are available in the “Bank Statement Workbench” (tfcmg5610m100)

Setting up the Infor LN Integration with GEMS

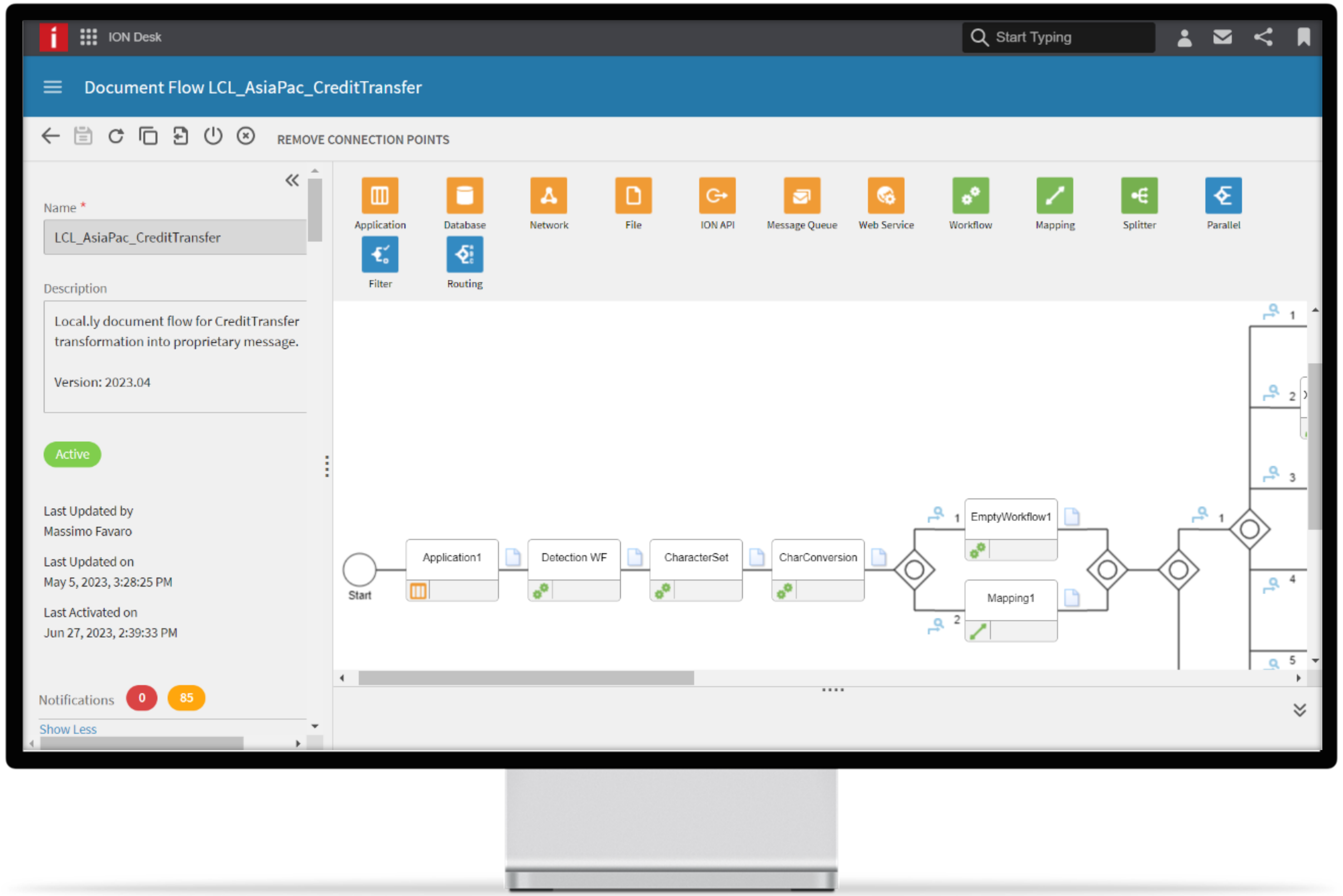
- Download the latest “GEMS CreditTransfer (version).zip” file from the attachments to the KB 2275831 (or from a newer superseded article, when applicable).
- Check the latest release for Credit Transfer (2023.07 in the screenshot included in this slide)
- For example, the ABA Australia credit transfer is available within the “GEMS AsiaPac CreditTransfer” folder.



Setting up the Infor LN Integration with GEMS

- See the instructions attached to the KB 2271979 for more detailed information about the Configuration steps (GEMS-Credit-Transfer-Installation-instructions….pdf)

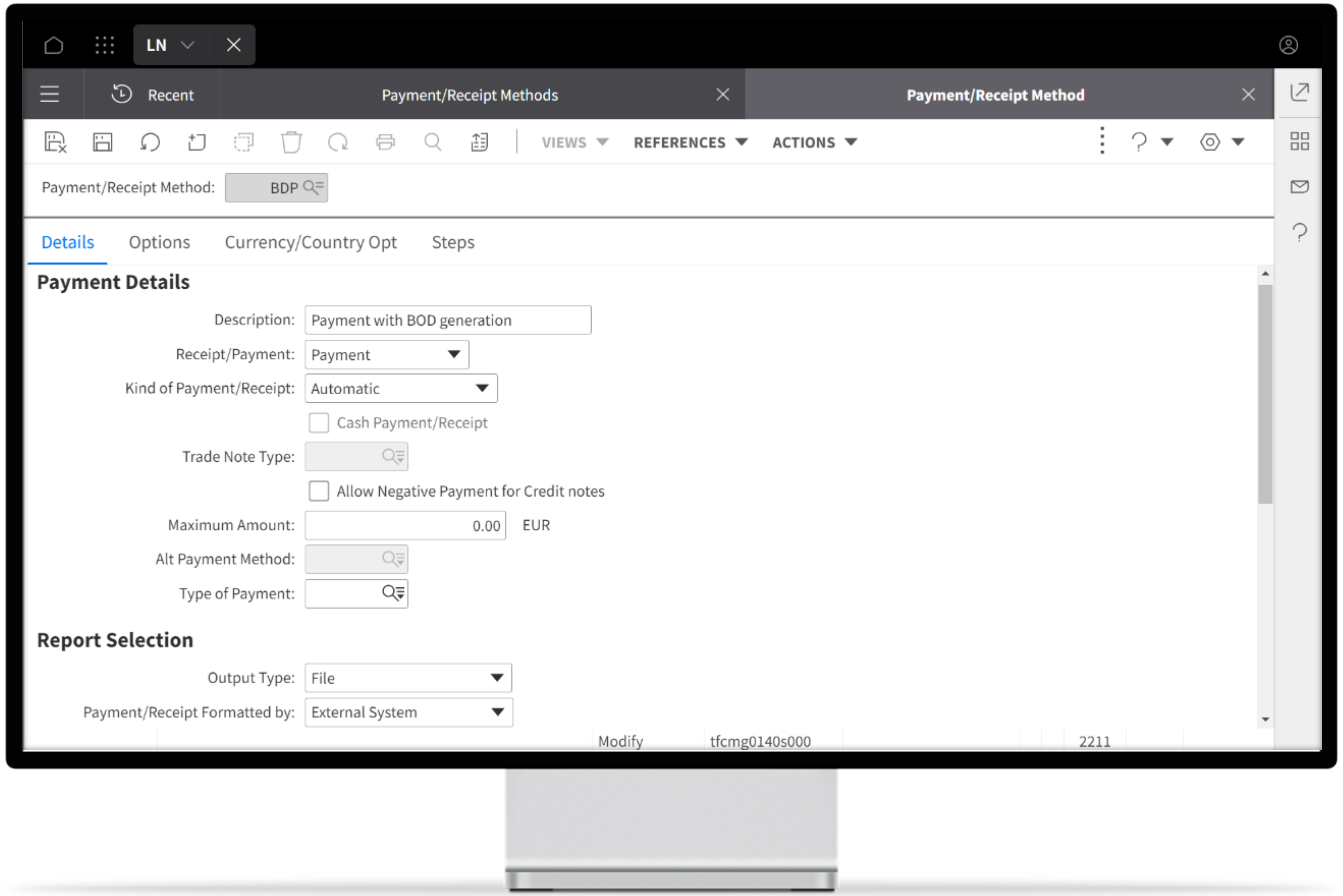
- In ION Desk, import all the required items for this document flow from the GEMS CreditTransfer file and complete their configuration and activation:
  - custom BOD
  - File Format Template
  - Code Lists (format)
  - Workflows
  - Document flow



Setting up the Infor LN Integration with GEMS

- In Infor LN, configure a new payment method enabling the generation of the Credit/Debit Transfer BOD, once the Payment Batch is processed in the Infor LN Cash Management module.

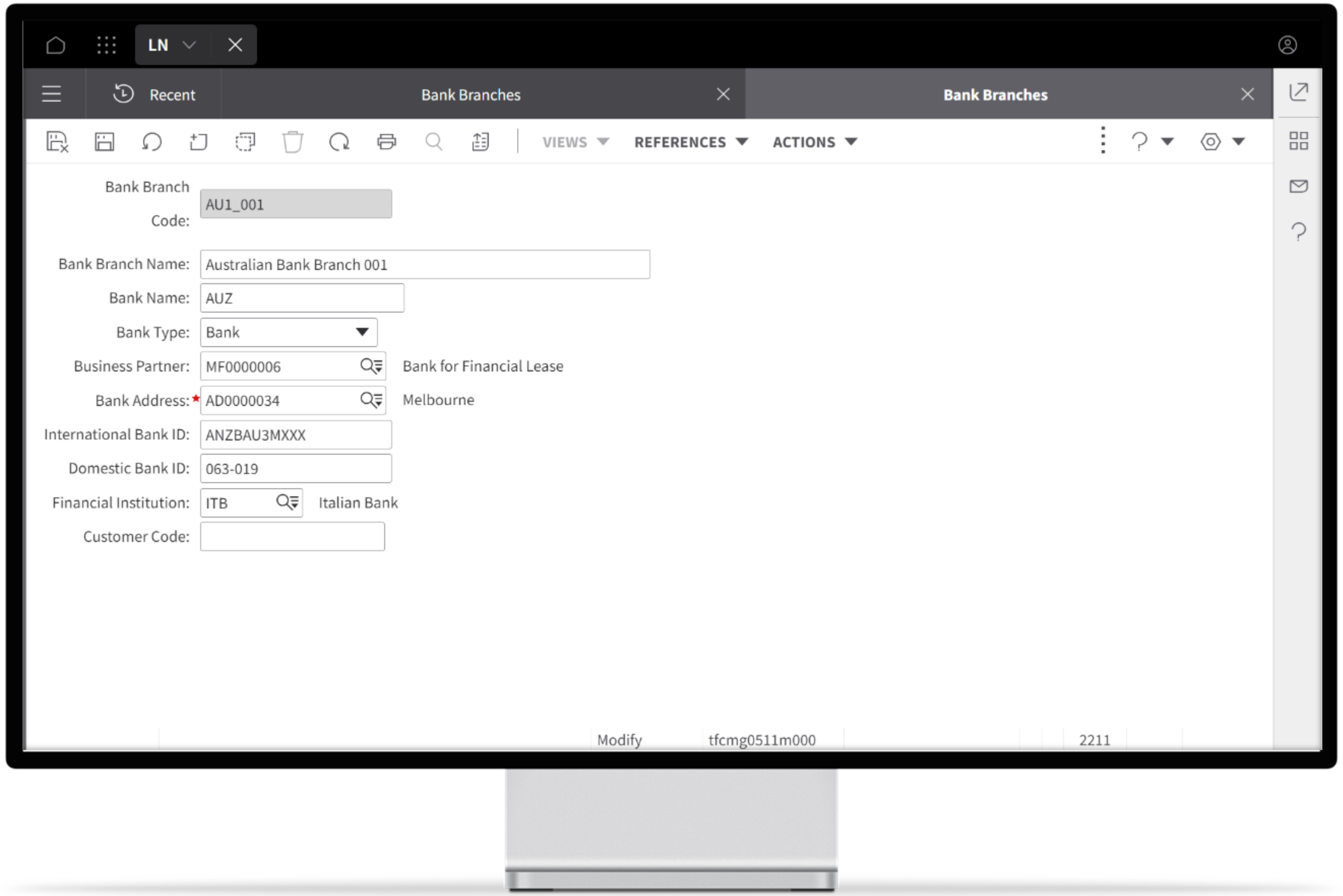
- In Payment/Receipt Methods (tfcmg0540m000), the payment method should be defined as follows:
  - Output type "File"
  - Payment/Receipt Formatted by "External System"



Setting up Integration with GEMS

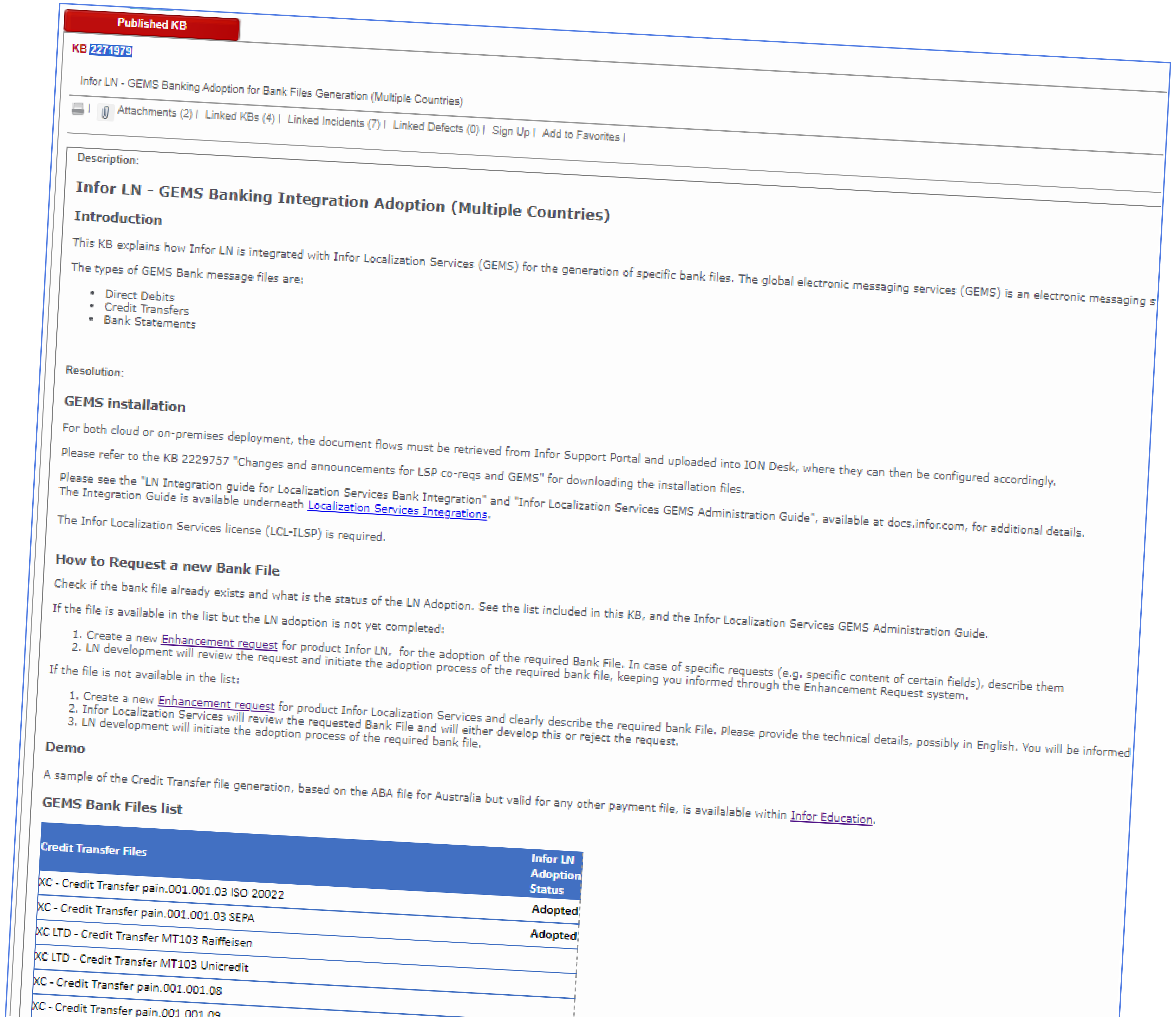
Additional LN settings which may be specific to each file.

- For example, for the ABA credit transfer file for Australia:
  - In “General Company Data” (tccom0502m000/tccom0102s000) the Chamber of Commerce ID field
  - In “Bank Branches” (tfcmg0511m000):
    - “Bank name”
    - “Domestic Bank ID”



Interactive Briefing

New GEMS Banking file requests


Published KB

KB 2271979

Infor LN - GEMS Banking Adoption for Bank Files Generation (Multiple Countries)

| Attachments (2) | Linked KBs (4) | Linked Incidents (7) | Linked Defects (0) | Sign Up | Add to Favorites |

Description:

Infor LN - GEMS Banking Integration Adoption (Multiple Countries)

Introduction

This KB explains how Infor LN is integrated with Infor Localization Services (GEMS) for the generation of specific bank files. The global electronic messaging services (GEMS) is an electronic messaging s

The types of GEMS Bank message files are:

- Direct Debits
- Credit Transfers
- Bank Statements

Resolution:

GEMS installation

For both cloud or on-premises deployment, the document flows must be retrieved from Infor Support Portal and uploaded into ION Desk, where they can then be configured accordingly.

Please refer to the KB 2229757 "Changes and announcements for LSP co-reqs and GEMS" for downloading the installation files.

Please see the "LN Integration guide for Localization Services Bank Integration" and "Infor Localization Services GEMS Administration Guide", available at docs.infor.com, for additional details.
The Integration Guide is available underneath Localization Services Integrations.

The Infor Localization Services license (LCL-ILSP) is required.

How to Request a new Bank File

Check if the bank file already exists and what is the status of the LN Adoption. See the list included in this KB, and the Infor Localization Services GEMS Administration Guide.

If the file is available in the list but the LN adoption is not yet completed:

1. Create a new Enhancement request for product Infor LN, for the adoption of the required Bank File. In case of specific requests (e.g. specific content of certain fields), describe them
2. LN development will review the request and initiate the adoption process of the required bank file, keeping you informed through the Enhancement Request system.

If the file is not available in the list:

1. Create a new Enhancement request for product Infor Localization Services and clearly describe the required bank File. Please provide the technical details, possibly in English. You will be informed
2. Infor Localization Services will review the requested Bank File and will either develop this or reject the request.
3. LN development will initiate the adoption process of the required bank file.

Demo

A sample of the Credit Transfer file generation, based on the ABA file for Australia but valid for any other payment file, is availalable within Infor Education.

GEMS Bank Files list

Credit Transfer Files	Infor LN Adoption Status
XC - Credit Transfer pain.001.001.03 ISO 20022	Adopted
XC - Credit Transfer pain.001.001.03 SEPA	Adopted
XC LTD - Credit Transfer MT103 Raiffeisen	
XC LTD - Credit Transfer MT103 Unicredit	
XC - Credit Transfer pain.001.001.08	
XC - Credit Transfer pain.001.001.09	

The KB 2271979 summarizes the available files, the status, and the procedure.

GEMS for Supplier Invoices

GEMS for Supplier Invoices: Flow

Supplier

- The E-Invoice file is received from the supplier *(or from the Tax authorities in some countries)*

ILS GEMS

- GEMS receives the E-Invoice file and transform it to a Load. SupplierInvoice BOD
- Additional information may be added in some localizations

ION

- ION transfers the BOD to LN

LN

- The session Received Purchase Invoices (tfacp1110m000) is populated with the invoice data, which can be verified, maintained and approved, before the posting in Finance

GEMS for Supplier Invoices: Configuration

Download Installation Files

- Download GEMS zip file from: Changes and announcements for LSP co-reqs and GEMS (KB 2275831 for year 2023)

GEMS Components Installation in ION

- Install File template: Connect/File template + import action
- Install BOD scheme if available: Data Catalog/Object schemas + import action
- Install Data flow if available: Connect/Data flows + import action

Connection Point Configuration

- Configure the FTP or Install the Enterprise Connector when required. (*see ION admin documentation*)
- Configure the Connection point:
  - read location
  - error location
  - write location
  - etc.

Accounting Entity Defaulting

- Add the mapping for the Accounting Entity (LN company) default value (*see KB 2298697*)

GEMS for Intrastat

GEMS for Intrastat

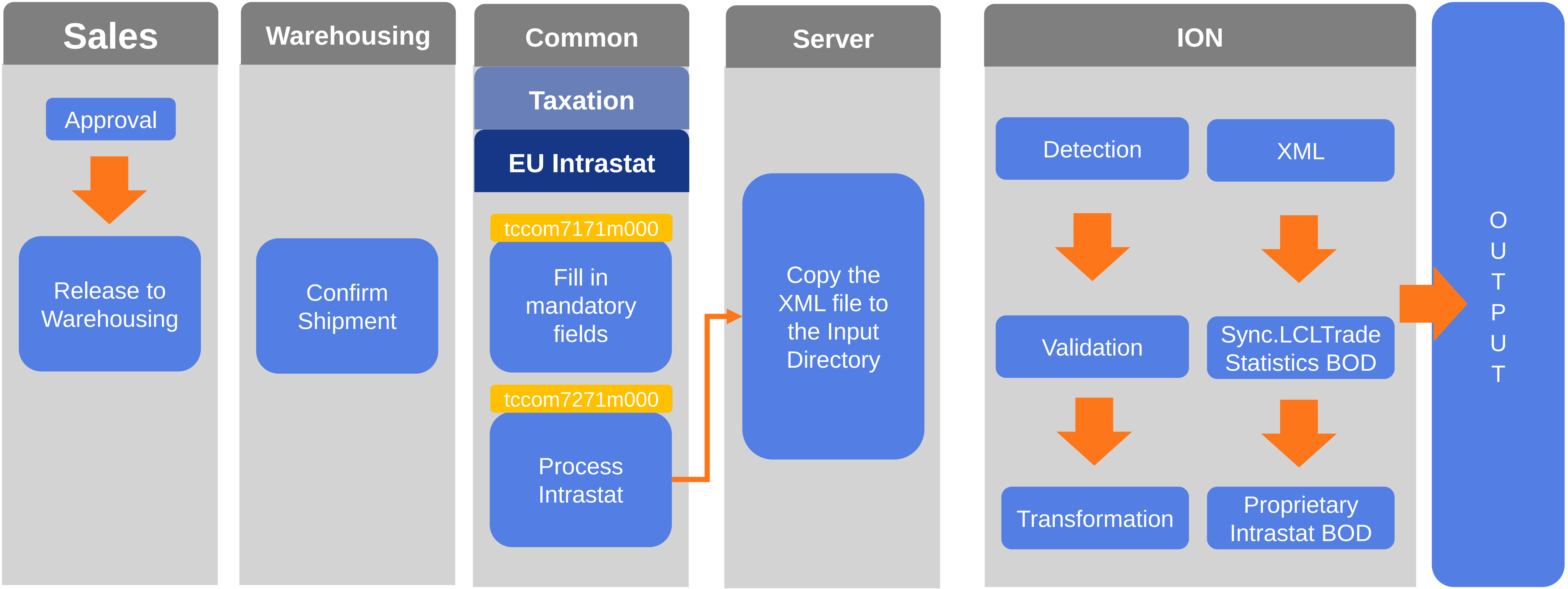
Context

- Intrastat reporting enables governments and the EU track trade between countries for statistical purposes.
- It includes details such as the Description of the Goods, Commodity Codes, Quantity and Value of the Goods, Delivery Terms, Country of Departure and Arrival and any Shipping Costs among others.

Intrastat process in LN

- LN is capable to build a generic Intrastat file in XML format.
- The LCL_TStat_TradeStatistics flow is used to transform the generic Intrastat XML file into a GEMS Sync.LCLTradeStatistics BOD.
- Subsequently the BOD will be converted into a country specific file, considering that the conditions in the document flow are met.

GEMS for Intrastat: Process

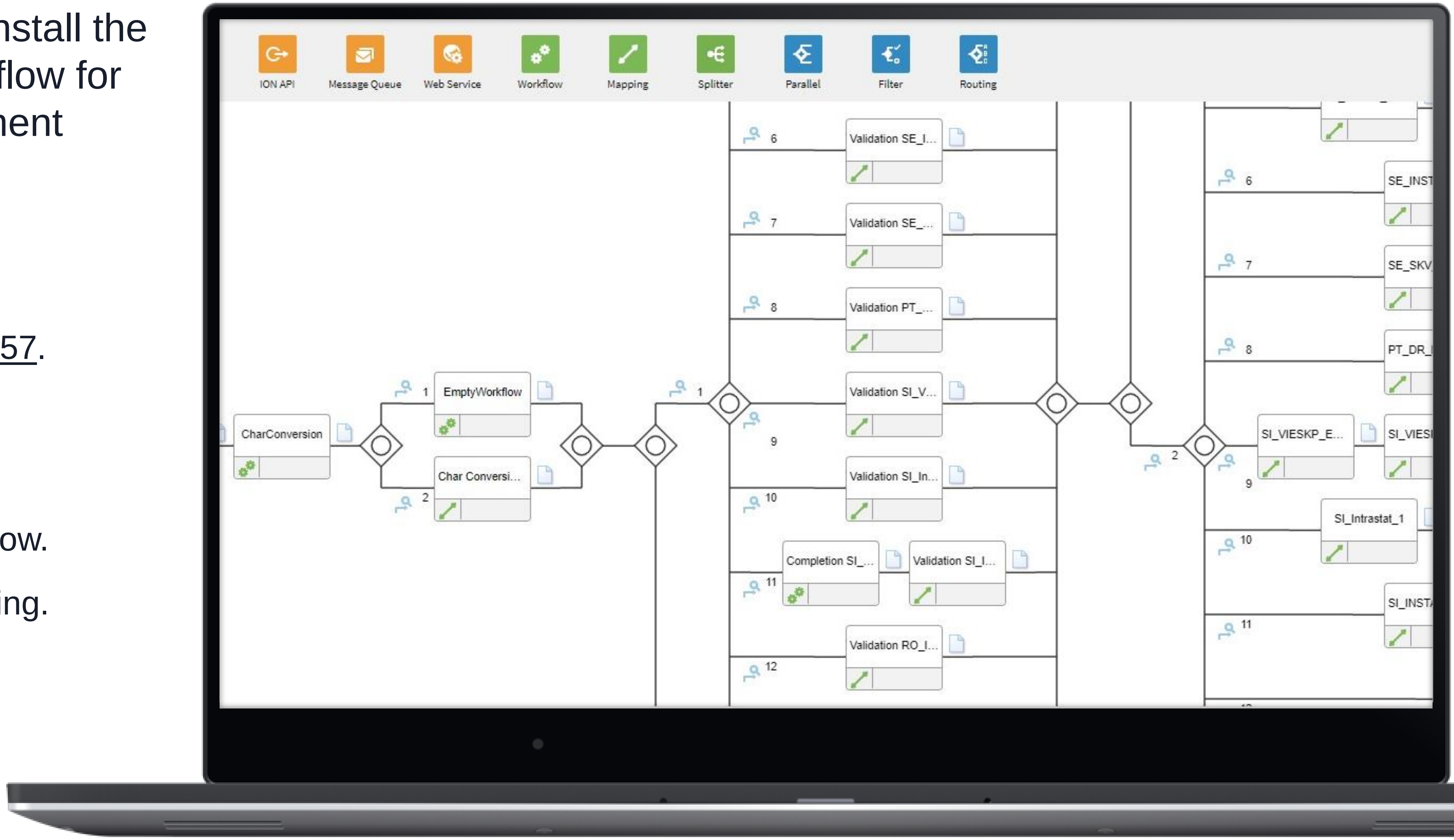


GEMS for Intrastat: Installation

- In order to use the functionality, it is necessary to install the appropriate LCL_TStat_TradeStatistics document flow for trade statistics reports in ION (there several document flows, which group the different EU Countries)

- In order to setup the document flow in ION:
  - Downloading the appropriate files from KB Article 2229757.
  - Extract all the files in a local directory.
  - Import the custom BODs for the document flow in ION.
  - Import the format templates required for the document flow.
  - Update the different connection points and do the mapping.
  - Activate the document flow.

- The Intrastat XML should be generated within LN following the instructions



Localization Integrations Case Studies

Interactive Briefing

E-Invoicing Models

E-Invoicing possibilities and implementation features

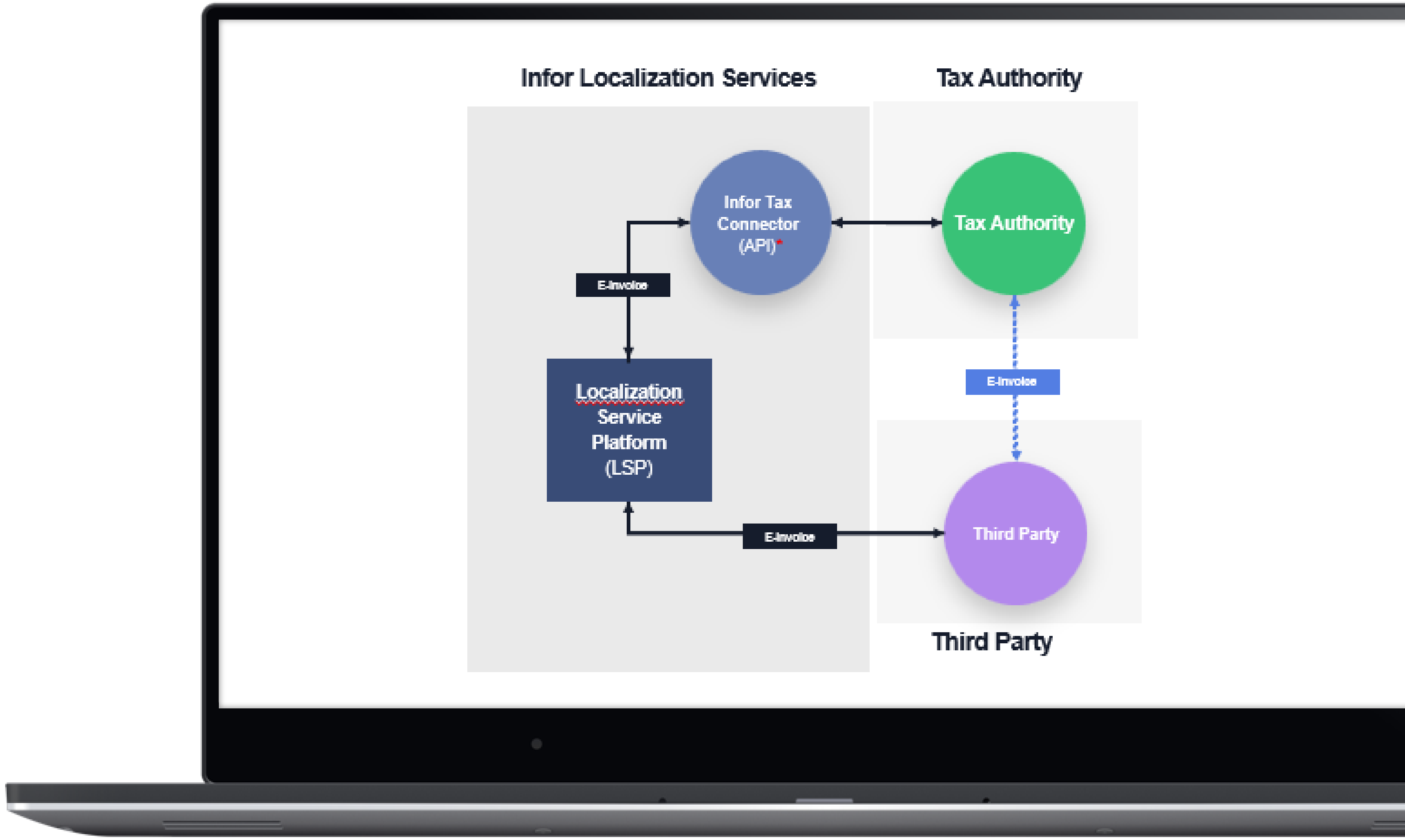
LN solution:	Defaulting logic	Integration with other sources (e.g. sales)	Localized composing criteria	Tax Connector Data	Submit to external invoicing step	Direct processing possible	Submit to external invoicing	Master data based on tax codes	Communication through ReceivableTracker BOD	Text maintenance form to LSP	Usage of the classification scheme	Communication through Supplier Invoice BOD	…
Example:	e.g. specific BP id or transaction types				e.g. Is a signature required on the invoice printout?	generated by LN/LSP or only by the authorities?		Different types of tax withholding	Information about invoice payments	Legal texts, free texts, combined texts, etc.	Additional country specific or supplier specific classifications	Cost reporting, import reporting	
Specific requirem.::	Additional Specific Data				Clearance model	QR Code		Sales Withholding TAX	Payment details	Special text	Items classification	Additional Reporting requirements	Etc.

New E-Invoice / E-reporting requirement

Connectivity

Multiple Connectivity Options

- Customers can use the Gateway or the Infor Tax Connector for directly connecting to the Tax Authorities or can use a third party provider on the market for the connectivity services.



Interactive Briefing

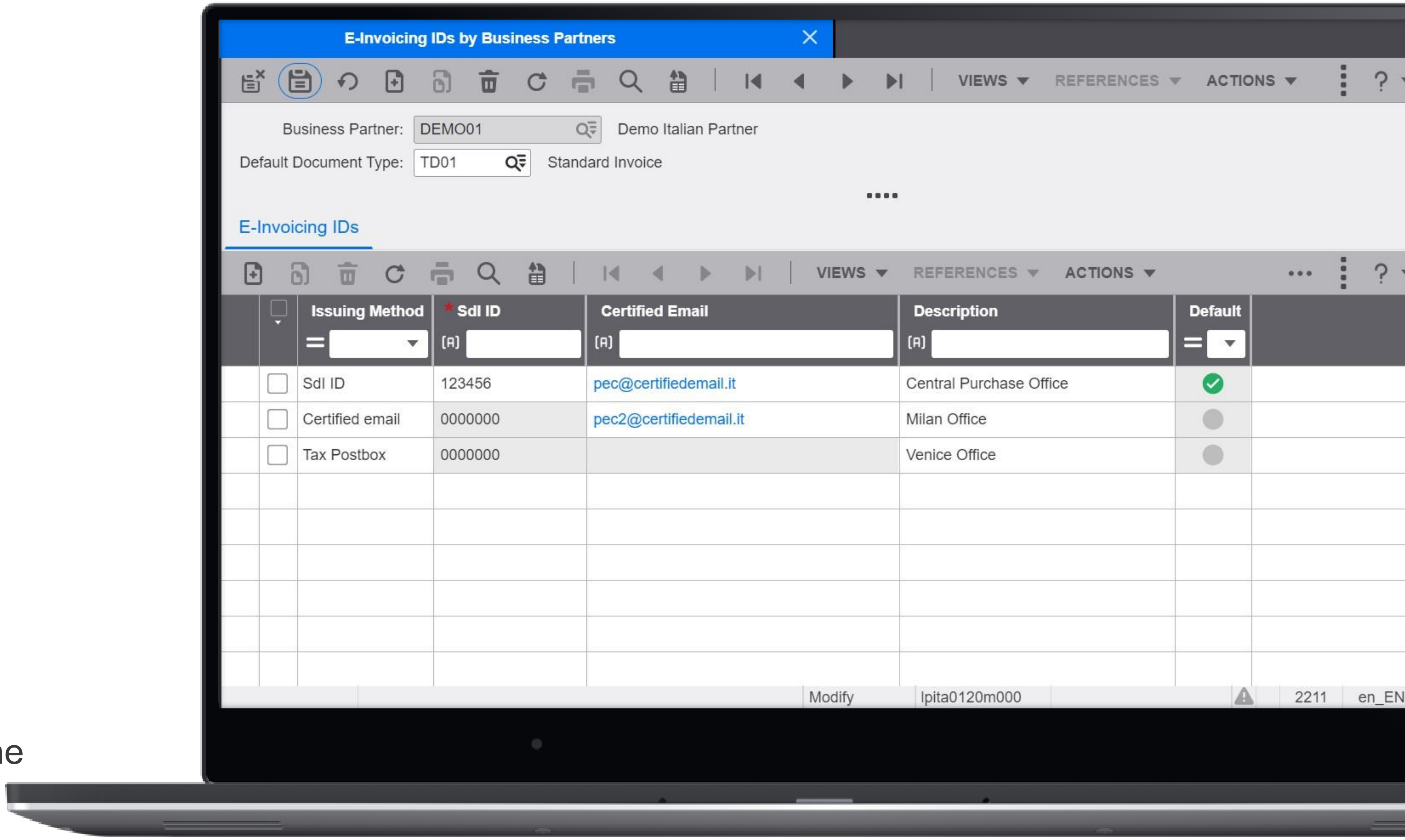
Italy

E-Invoicing IDs by Business Partner

- In the new session “E-Invoicing IDs by Business Partner” (Ipita0120m000) it is possible to enter the customer ID(s) assigned by the Tax Authorities and required by the Italian eInvoicing functionality (tag <CodiceDestinatario>) and the default Document Type.

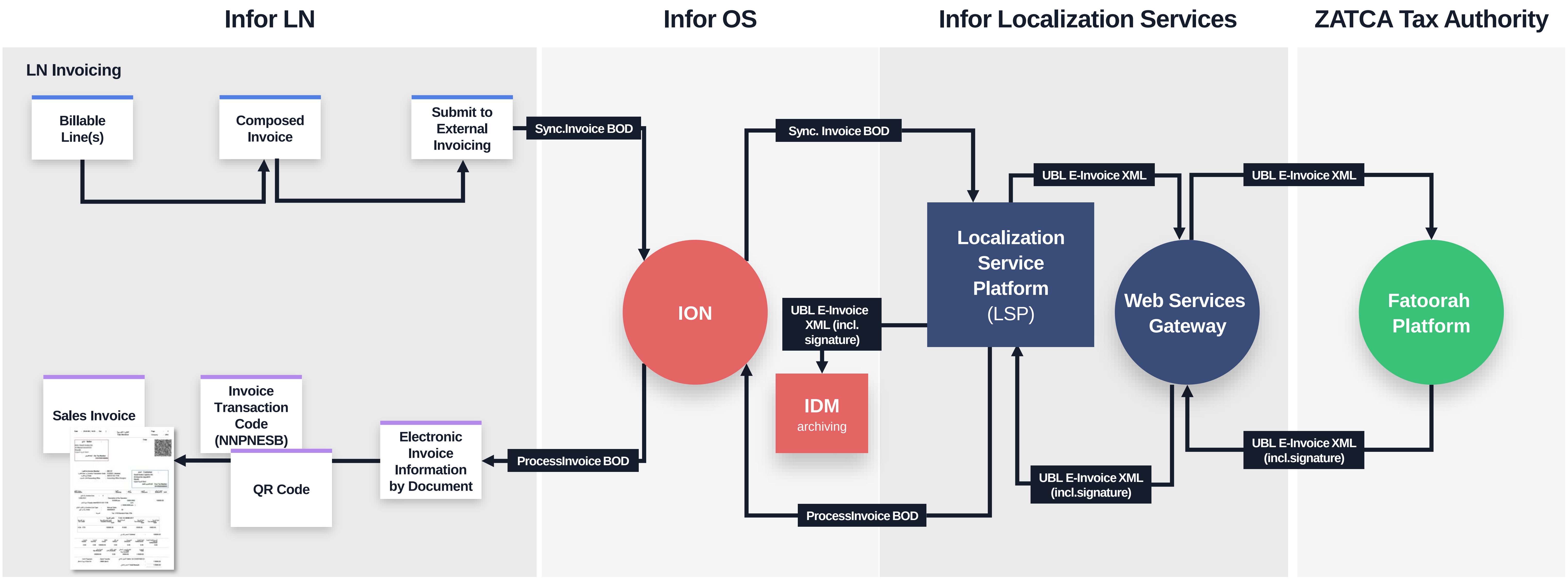
SubInvoice Types

- In the new session “Document Types for Italian eInvoicing” (Ipita0110m000) it is possible to enter the list of Document Types required to fill the tag <TipoDocumento> in the Italian eInvoice XML.



Interactive Briefing

Saudi Arabia, Fatoorah integration

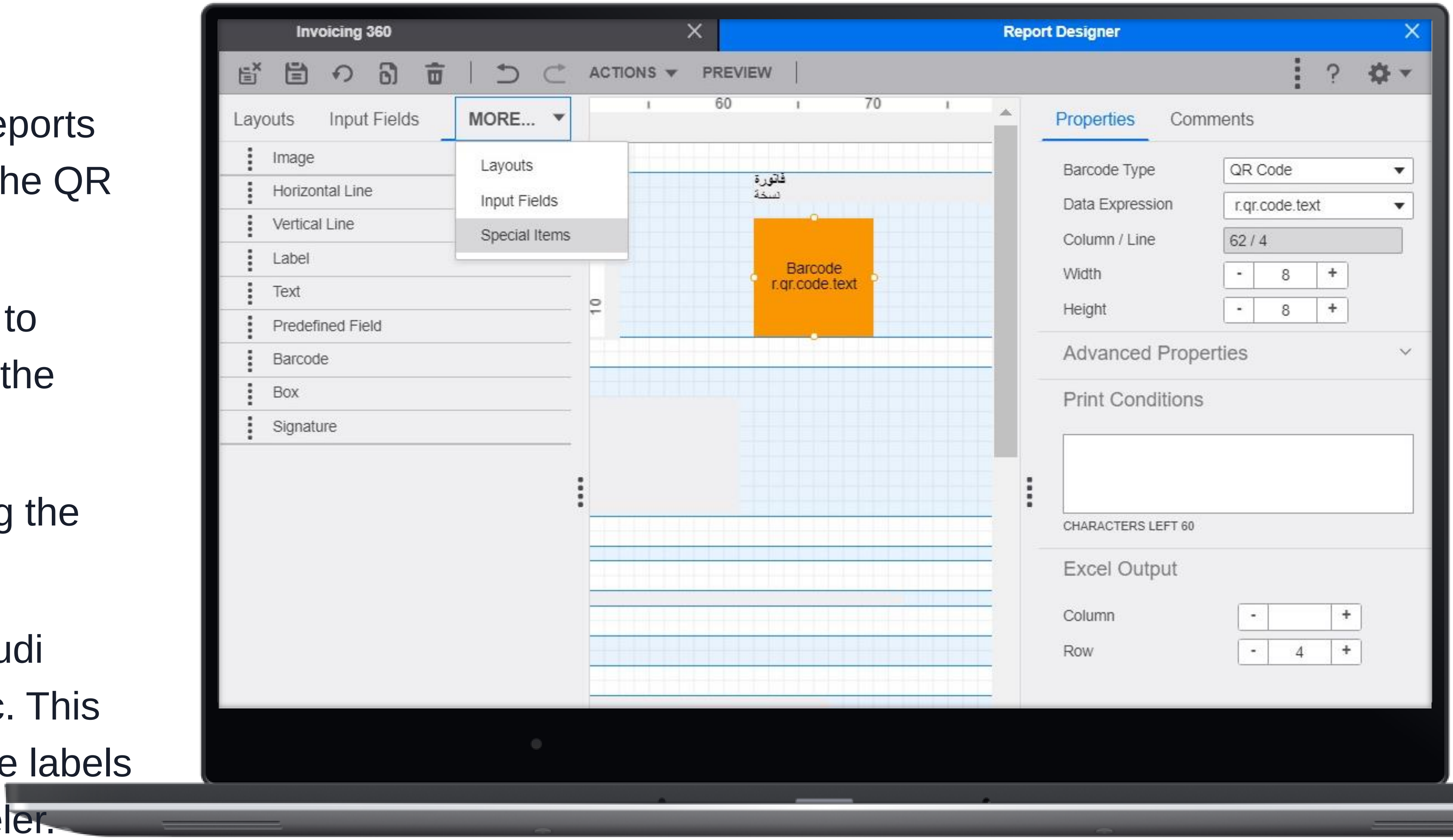


Interactive Briefing

Saudi Arabia, QR code and bilingual invoices

Invoice Report Personalization

- To include the QR code in an invoice, the invoice reports should be personalized in Report Designer to add the QR code, using Barcode Type “QR code”.
- The Data Expression r.qr.code.text, can be applied to generate the required encoded QR code based on the algorithm available in Infor LN.
- (optional) Additional restrictions can be added using the Print Conditions available in Report Designer.
- The law allows to generate bilingual invoices in Saudi Arabia, where one of the languages must be Arabic. This can be achieved in Infor LN manually translating the labels or adding a calculated value in the Extension modeler.



Hungary, EKÁER number identifier

- The EKÁER number identifier (Electronic Trade and Transport Control System), in Infor LN also called Trade Card, is included in the e-invoice XML file and on the printed invoice. The Trade Card Number is included in the SyncInvoice BOD if the Hungarian localization is active. The number is linked to the shipment and is added at the invoice line level (r.trade.card). The identifier is available in invoice reports for personalization, using report designer.

Czech Republic: Digital Certificate

- It is possible to generate ISDOC E-Invoices for Czech Republic including digital certificate, following the following steps:
  1. Upload certificate in Certificate and Key Store
  2. Setup Web services gateway using the uploaded certificate
  3. Generate output in New Report Page > OutputFileType= ISDOC 6.0.2

Archiving requirements

Some countries have a legislation in place related to the archiving of the E-Invoices.

The E-Invoice may be for each country the pdf (e.g. including the QR code or a special ID) or the file (e.g. the XML).

In each country the archiving may have different time frame, security standards, file naming requirements.

Infor LN does not offer an out of the box solution, but the following tools can be used:

DOM

DOM allows to forward automatically the LN invoices to certain folders or email addresses.

IDM

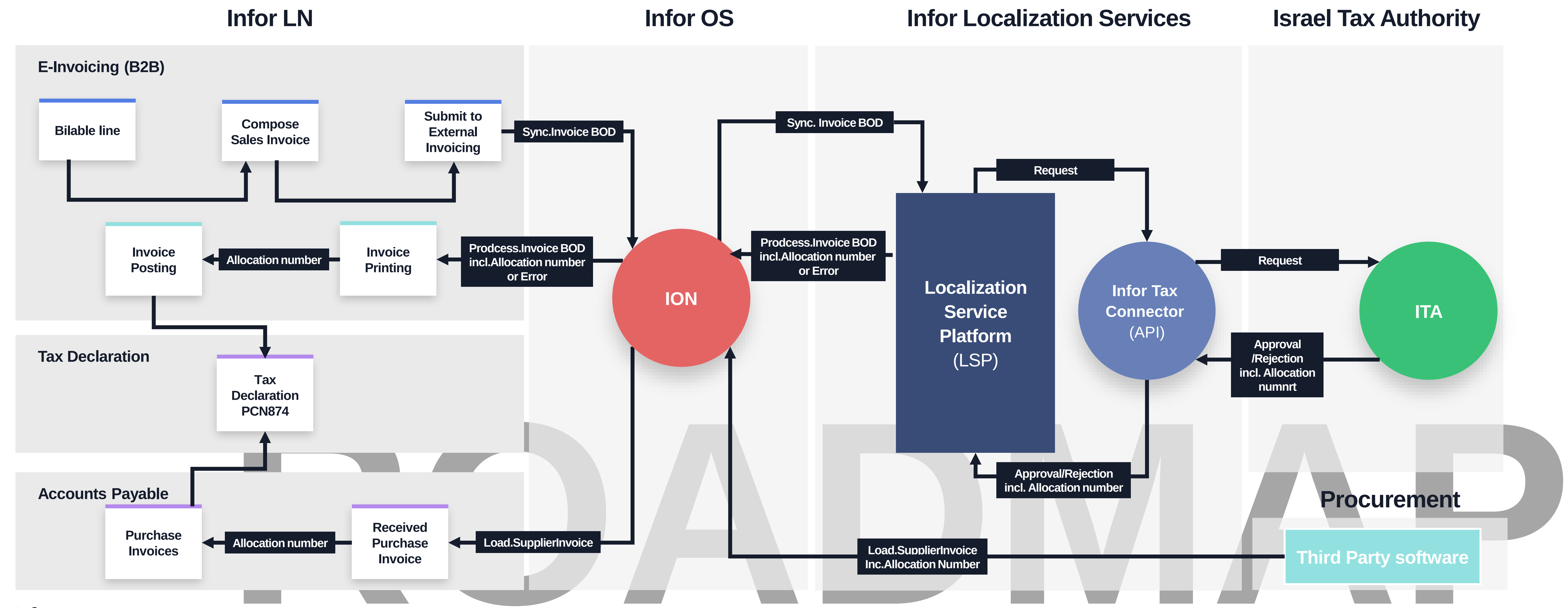
IDM is available for both LN and LSP.

- **LN can store the invoice printouts**
- **LSP can store the generated e-invoice files.**

From IDM, it is also possible to send the files by email.

Infor LN: Infor localization services integration

E-Invoicing and E-reporting solution (Israel)



Localization integration resources

Support KBs

- KB 2025050 Infor Localization Services Cloud Updates (release information)
- KB 2275831 Changes and announcements for LSP co-reqs and GEMS 2023
- KB 2271979 Infor LN - GEMS Banking Integration Adoption (Multiple Countries)
- Search in the support knowledge base for specific KBs for country or topic

Infor Documentation (docs.infor.com)

Localization Services library

- The Product Overview Guide shows what function is available in LSP and its sister product GEMS.
- The LSP Administration Guide shows you how to configure LSP and is aimed at System Administrators.
- The LSP User Guide guides you through the functional configuration.
  - Note: the LSP guides should be used in conjunction with LN documentation. Not all function in a country may be supported by LN and within that, there could be additional constraints that may need attention.

Infor LN Integrations Library

- Country specific integration guides

Localization integration resources

LN integration trainings in Infor U:

- Several release trainings are available for the following countries, including demos:
  - Italy E-Invoicing (several courses)
  - Mexico E-Invoicing (several courses)
  - Spain E-Invoicing
  - Saudi Arabia E-Invoicing
  - Turkey E-Invoicing
  - Intrastat ILS Trade Statistics Adoption (Multiple Countries)
  - PEPPOL e-invoicing (Multiple Countries)
  - GEMS - ABA Credit Transfer for Australia

LSP trainings in Infor U:

- Installing LSP on Prem
- Infor Localization Services Platform: Configuring the Webservices Gateway
- LSP Configuring LSP Direct (IONless, installation on Prem)
- GEMS:
  - Outbound set-up
  - Inbound set-up
  - Document Flow Split into Regions
- Supplementary data concept
  - Supplementary Data
  - Supplementary Data XSLT
- UK/Making Tax Digital (using LSP Direct)

Thank you

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