



GS516 – Connecting to Government Portals and Web Services in Globalization Studio

Many countries now mandate businesses to submit tax, invoice, or audit data electronically to government platforms. Microsoft simplifies these obligations by offering **prebuilt integrations** through **Globalization Studio** and **Electronic Reporting (ER)**.

In this article, you'll learn:

- Which countries are supported out-of-the-box
- How Microsoft handles submissions like Brazil's NF-e and Italy's FatturaPA
- How Spain's **SII VAT reporting** is implemented using ER + message processing
- What tools are used: messaging, pipeline, web service settings, and web apps

This builds on [GS506 – Pipelines](#) and [GS515 – Digital Signatures](#).

Countries with OOB Government Portal Integration

Microsoft provides **native connectors and ER formats** for multiple regions. These features require **no custom development** and are maintained by Microsoft.

Available Out-of-the-box:

Country	Supported Submission	Technology Used
Brazil	NF-e (Nota Fiscal Eletrônica) (Preview) ER format + custom pipeline	
Italy	FatturaPA	ER + Signature + Government connector
Spain	SII VAT Reporting	ER + Message Processing (non-EI pipeline)
Saudi Arabia	ZATCA JSON API + QR Code	ER + Signature + Web service connector
Egypt	ETA JSON reporting	ER + Signature + JSON submission
UK	MTD VAT Return	ER + Electronic Messaging + Web service
France	Chorus Pro	ER + Government portal integration

BR Brazil – NF-e Submission (Preview)

Microsoft offers a **preview feature** for Brazilian **NF-e** submission:

- Generates NF-e XML via ER



- Includes government-required tags like CFOP, NCM, and CST
- Out of box pipeline

Pipeline	Feature Use
Submit	Posting a new invoice
Cancellation	Cancelling an invoice
Correction Letter	Fixing typos (minor updates)
Discard	Number was skipped/not issued
Inquire	Status check or audit inquiry

Feature	Feature version	ISO Country/region codes	Base feature	Base version
Brazilian NF-e (BR)	10	BR		

Feature setup	Description	Setup type
Submit		Processing pipeline
Discard		Processing pipeline
Cancellation		Processing pipeline
Correction letter		Processing pipeline
Inquire		Processing pipeline

- Pipeline includes actions like:
 - Generate NF-e
 - Call SEFAZ service (Preview)
 - Store XML and PDF
- Each pipeline feature has list of predefined collection of actions i.e. Cancellation step has following pipeline processing actions

Pipeline Action	What It Does
Transform document	Converts the cancellation request into the NF-e XML format expected by SEFAZ using ER transformation rules.
Sign xml document	Digitally signs the cancellation XML using a valid certificate to meet SEFAZ authentication requirements.
Call Brazilian SEFAZ service	Sends the signed cancellation XML to SEFAZ via the built-in web service integration.
Process response	Reads SEFAZ's response, checks for success or errors, and logs the status for monitoring and audit.

Name	Description	Value
Input file	Response to analyse	Call Brazilian SEFAZ service (3); Output file
Reporting configuration list	List of configurations used for response parsing	NF-e response message import (BR); NF-e response message import (BR)
Reporting configuration list	List of configurations used for response parsing	NF-e error log import (BR); NF-e error log import (BR)

IT Italy – FatturaPA Integration

Italy's B2G and B2B e-invoicing uses the **FatturaPA** XML standard via **SDI (Sistema di Interscambio)**.

Microsoft provides:

- Prebuilt ER format for FatturaPA
- Built-in **Submit pipeline step**: Call Italian SDI Service



- Auto-signing using Azure Key Vault or certificate
- Message status: Submitted, Accepted, Error

✦ No need for custom development , simply configure applicability and pipeline steps.

Feature Setup	What It Does
Project invoice	Generates XML for project-related customer invoices and submits it to SDI via the Italian e-invoicing pipeline.
Sales invoice	Handles standard customer invoices; prepares FatturaPA-compliant XML, signs it, and routes it to SDI (Sistema di Interscambio).
Import invoices	An import channel that reads inbound XML files (e.g., from suppliers via SDI), parses them using ER, and creates messages or transactions in D365.
Project invoice PA	Submission pipeline for project invoices in the FatturaPA XML format, including signing, transmission, and response handling.
Sales invoice PA	Submission pipeline for sales invoices in FatturaPA XML format, with actions for digital signature, SDI submission, and result tracking.

- Here is the processing pipeline of Sales invoice feature step.

Pipeline Action	What It Does
Get next number sequence value	Automatically retrieves the next invoice number using a configured number sequence to ensure uniqueness and legal compliance.
Transform document	Uses Electronic Reporting to convert the sales invoice data into the required FatturaPA XML structure.
(Preview) Call Italian SDI service	Sends the signed XML document to Italy's SDI (Sistema di Interscambio) via Microsoft's predefined web service connector.
(Preview) Wait Italian SDI service	Waits for asynchronous response from SDI (e.g., accepted, rejected, or processing status).
Process response	Interprets the SDI's response XML, and updates the message status. Also logs error codes or rejections for audit and retries.

es Spain – SII VAT Submission (ER + Message Processing)

Unlike Brazil or Italy, **Spain's SII VAT submission is not handled via the Electronic Invoicing Add-in.**

Instead, it's configured through:

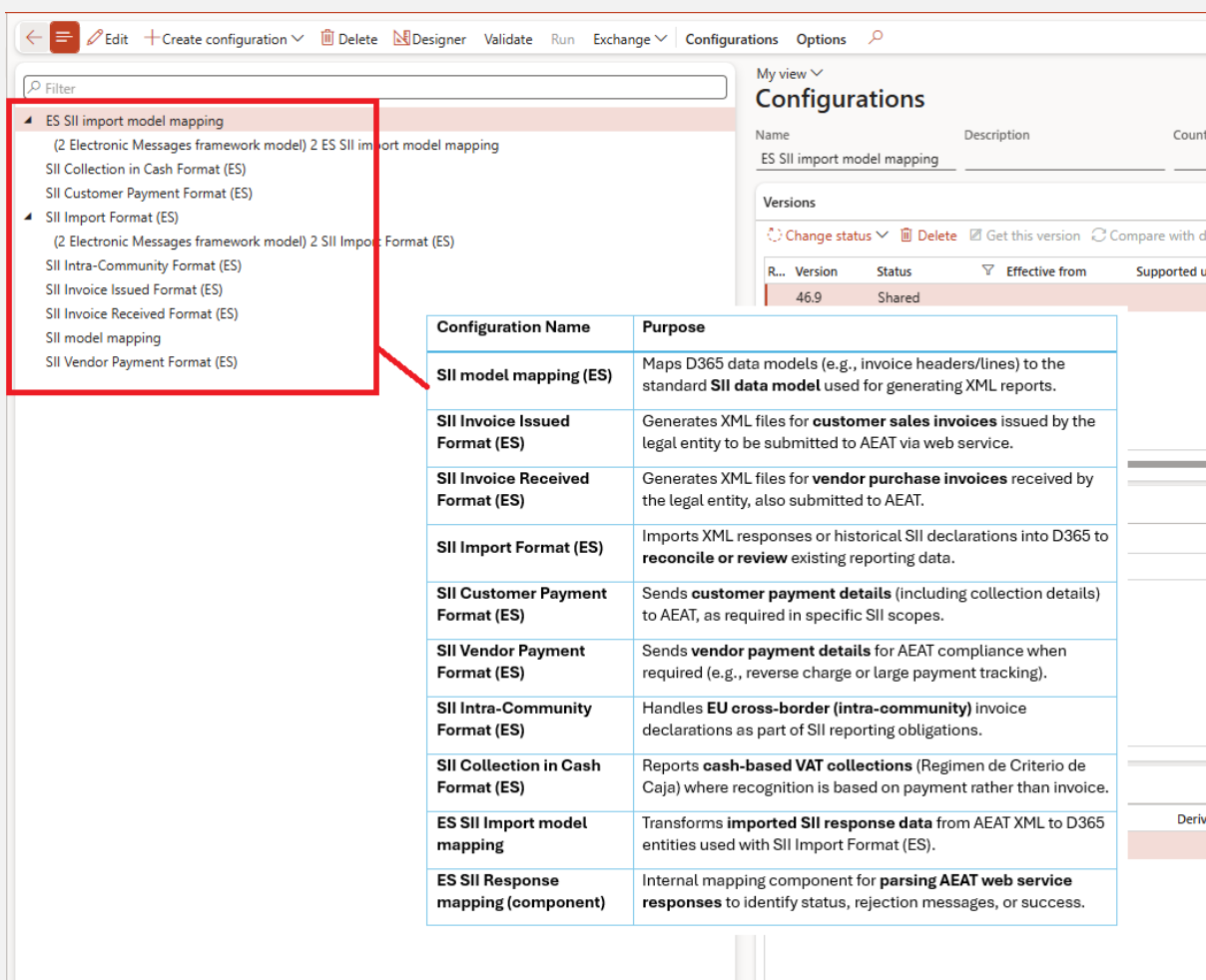
- **Electronic Reporting (ER)** for SII XML generation
- **Electronic Message Processing** for tracking & control
- **Processing Pipelines** for sequencing actions
- **Web Service Settings** for government API endpoints
- **Web Applications** for authentication and integration



Step-by-Step: Submitting SII to AEAT in Spain

☒ Step 1: ER Format for SII

- Microsoft provides the SII ER format (Sales Invoice, Purchase Invoice, Payments, etc.)
- Generates XML for each transaction
- Applies filtering via model mapping and query range



Configuration Name	Purpose
SII model mapping (ES)	Maps D365 data models (e.g., invoice headers/lines) to the standard SII data model used for generating XML reports.
SII Invoice Issued Format (ES)	Generates XML files for customer sales invoices issued by the legal entity to be submitted to AEAT via web service.
SII Invoice Received Format (ES)	Generates XML files for vendor purchase invoices received by the legal entity, also submitted to AEAT.
SII Import Format (ES)	Imports XML responses or historical SII declarations into D365 to reconcile or review existing reporting data.
SII Customer Payment Format (ES)	Sends customer payment details (including collection details) to AEAT, as required in specific SII scopes.
SII Vendor Payment Format (ES)	Sends vendor payment details for AEAT compliance when required (e.g., reverse charge or large payment tracking).
SII Intra-Community Format (ES)	Handles EU cross-border (intra-community) invoice declarations as part of SII reporting obligations.
SII Collection in Cash Format (ES)	Reports cash-based VAT collections (Regimen de Criterio de Caja) where recognition is based on payment rather than invoice.
ES SII Import model mapping	Transforms imported SII response data from AEAT XML to D365 entities used with SII Import Format (ES).
ES SII Response mapping (component)	Internal mapping component for parsing AEAT web service responses to identify status, rejection messages, or success.

☒ Step 2: Electronic Message Configuration

- Navigate to **Electronic Messaging Setup**
- Create a **message type** for SII (e.g., Outgoing invoices)
- Link to:
 - **Model mapping**



Definition	Name	Description	Base mapping	Direction	Is deleted
	ES SII Response mappingCopiar			To destination	

Format

DATA SOURCE TYPES	DATA SOURCES	DATA MODEL
<ul style="list-style-type: none">Data modelEnumerationEnumeration user input parameterDynamics 365 for OperationsClassEnumerationNumber sequenceObjectTableTable recordsDynamics 365 for RetailTable recordsFormatExport formatImport formatFunctionsBarcodeCalculated fieldData collectionFinancial dimensions detailsGroup byJoinStock dimensions detailsTable metadataGeneralEmpty containerEndless listUser input parameterTaxTaxable document source	<ul style="list-style-type: none">Calculated fieldsUser input parametersData models	<ul style="list-style-type: none">a.ElectronicMessageItemsLog: Record list = model.'ExistingItems'a.ElectronicMessageItemsLog_Error: Record list = 'ElectronicMessageItems_ErrorStatus'a.ElectronicMessageItemsLog: Record list = 'ElectronicMessage'ElectronicMessageItems: Record list = model.'ExistingItems'ElectronicMessageItemsLogDetails: Record list = 'ErrorMessages'ElectronicMessageItems_Error: Record list = 'ElectronicMessageItems_ErrorStatus'ElectronicMessages: Record list = 'ElectronicMessage'EMItemsAdditionalFields: Record list = 'SuccessfullItems'

Step 3: Electronic Message Statuses

- Shows health of each submission i.e. Success, Partial accepted, technical error



Message statuses				
Standard view * ▾				
<input type="text" value="Filter"/>				
Message status	Description	Response type	Message item status	Allow delete
Correcto	Success send	Successfully executed	Correcto	
Corregido	Corrected Record	User defined	Corregido	
ErNegocio_expedido	Business Error Sent File	Business error	Error	
ErNegocio_Generado	Business Error Generated File	Business error	Error	
ErNegocio_Importar	Business Error Import Response	Business error	Error	
ErTecnico_expedido	Technical Error Sent File	Technical error	EnProceso	
ErTecnico_Generado	Technical Error Generated File	Technical error	Preparado	
ErTecnico_Importar	Technical Error Import Response	Technical error	EnProceso	
Expedido	Sent File	Successfully executed	EnProceso	
Generado	Generated File	Successfully executed	EnProceso	
Importar	Import Response	Successfully executed	Procesada	
Incorrecto	Business Error Send File	Business error	Incorrecto	
IncorrectoEsquema	Wrong scheme	Business error	Incorrecto	
Nuevo	New Record	Successfully executed	Creado	
ParcialmenteCorrecto	Partially correct message	Successfully executed	Incorrecto	
ToBeDeleted	Electronic message to be deleted	Successfully executed		

✓ Step 4: Electronic Message Processing Actions

- Defines what the system should do with a message (e.g. transform it, send it to a web service, import a response, or update a record). Think of it as a step in a process like printing, emailing, or exporting a file.

Message processing actions

Specify the type of data being processed. Here, FacturasCiente indicates it's customer sales invoices to be reported to the Spanish Tax Authority (AEAT).

Links to the ER configuration format used for transformation. Here, SII Invoice Issued Format (ES) is the XML layout for outgoing customer invoices.

Defines the kind of action performed. In this case: Electronic reporting export, which means the system uses an ER format to generate the SII XML output.

Initial statuses

Message item status	Description
Corregido	Item corrected
Creado	Item created
Preparado	Item prepared

Represents the preconditions or life-cycle states that a message item must be in before this action can run.

Result statuses

Message status	Description	Response type	Message item status
ErTecnico_Generado	Technical Error Generated...	Technical error	Preparado
Generado	Generated File	Successfully executed	EnProceso

Defines possible outcomes after the action completes. Example: Generado (Successfully Generated), ErTecnico_Generado (Technical error occurred).



✓ Step 5: Electronic Message Processing (Pipeline)

- Electronic Message Processing is the engine that runs the sequence of actions defined in a message processing framework. Think of it like a recipe that tells D365 what steps to follow, fetch records, generate a file, sign it, submit it, import the response, and update statuses.

My view

Electronic message processing

Processing: SII Name: Immediate Supply of Informa...

Filter

CollectionInCash
Immediate Supply of Information (SII): ...

SII
Immediate Supply of Information (SII): ...

Pipelines

Action	Description	Run separately	Inseparable sequen...	Action type	Messa
GenerateMessageItem	Generate items (records)	No		Message execution level	
EvaluationFields	Evaluate counterparty ID additional attributes	No		Message item execution level	
GenerateMessageCI	Generate message for Customer Invoices	No		Electronic reporting export	Factur
GenerateMessageCP	Generate message for Customer payments	No		Electronic reporting export	Pagos
GenerateMessageC	Generate message for Intra-community	No		Electronic reporting export	Opera
GenerateMessageVI	Generate message for Vendor Invoices	No		Electronic reporting export	Factur

Message item additional fields

Message item type	Field name	Default value
FacturasProveedores	ClaveRegimenEspecialOTrascendencia	01
FacturasProveedores	CodigoPais	
FacturasProveedores	EntidadSucedidaNIF	
FacturasProveedores	EntidadSucedidaNombreRazon	
FacturasProveedores	ID	
FacturasProveedores	IDType	

Message additional fields

Field name	Default value
------------	---------------

We didn't find anything to show here.

✓ Step 6: Electronic Message Processing (Pipeline) Actions

This controls the order of operations:

Step	Purpose
Generate file	Run ER to produce SII XML
Sign (optional)	Sign XML if required
Web service call	Send file to AEAT endpoint
Status check	Wait and fetch AEAT response

💡 This is **not part of the Electronic Invoicing add-in**. It runs inside the standard **Electronic Messaging** engine.



My view **Electronic message processing**

Processing: SII Name: Immediate Supply of Informa...

Pipeline Actions

Action	Description	Run separately	Inseparable sequen...	Action type	Messa
GenerateMessageItem	Generate items (records)	No		Message execution level	
EvaluationFields	Evaluate counterparty ID additional attributes	No		Message item execution level	
GenerateMessageCI	Generate message for Customer Invoices	No		Electronic reporting export	Factur
GenerateMessageCP	Generate message for Customer payments	No		Electronic reporting export	Pagos
GenerateMessageC	Generate message for Intra-community	No		Electronic reporting export	Opera
GenerateMessageVI	Generate message for Vendor Invoices	No		Electronic reporting export	Factur

Message item additional fields

Message item type	Field name	Default value
FacturasProveedores	ClaveRegimenEspecialOTrascendencia	01
FacturasProveedores	CodigoPaís	
FacturasProveedores	EntidadSucedidaNIF	
FacturasProveedores	EntidadSucedidaNombreRazon	
FacturasProveedores	ID	
FacturasProveedores	IDType	

Message additional fields

Field name	Default value
------------	---------------

We didn't find anything to show here.

Step 7: Configure Web Service (Secure connection to Webservices)

- This screen is used to configure external API endpoints like government portals or custom logic apps where D365 will send or receive electronic documents, such as invoices or tax files. It's a technical bridge between D365 and the outside world.

My view **Web service settings**

Web service: Cust invoice Description: Customer invoice SII

General

Copy base URL: <https://www.agenciatributaria.es>

Internet address: <https://www.agenciatributaria.es>

Key Vault certificate: [\[Certificate Name\]](#)

Web application: ☐ No

Use proxy server: ☐ No

Use advanced parameters: ☐ No

WARNING: Third party services or other services that you configure here do not require certification and they might not meet Microsoft privacy standards. You are responsible for ensuring that these services meet your security, privacy and standards. You bear the risk of using it. Microsoft gives no express warranties, guarantees or conditions. It is strongly recommended that you use only services that provide secure and authorised connections.

The target endpoint URL of the Spanish Tax Authority (AEAT). This is where D365 sends the XML files for customer invoice reporting.

Optional field to specify a web app if routing the submission through an intermediate application or gateway. Usually left blank for direct AEAT calls.

If set to Yes, allows routing the web service call through an internal proxy server. Typically used for compliance with internal network policies.

Enables advanced options like dynamic request transformation, alternate headers, or additional security tokens. Default is No unless

Field	Description (Purpose)
The response type - XML	Triggers whether the response from AEAT is expected in XML format. Needed for parsing and processing errors or confirmations automatically.
Request method	Defines the HTTP method (e.g., POST, GET) used to call the web service. POST is typical for SII submissions.
Request headers	Allows defining custom HTTP headers to be sent along with the request (e.g., authentication, content type, tracking IDs).
Accept / Accept encoding	Specifies acceptable response content types or encoding, useful for parsing returned data correctly.
Content type	Defines the content type of the request payload, usually set to application/xml for Spain SII.
Successful response code	Response status code that indicates a successful submission, typically 200 (OK). Triggers success path in message processing.
Request headers format mapping	Optional field to point to an Electronic Reporting format mapping that dynamically builds custom headers per message (e.g., token or tenant headers).

Request parameters

The response type - XML	Request method	Request headers	Accept	Accept encoding	Content type	Successful response code	Additional successful response c...	Request headers format mapping
<input type="radio"/> No						200		

Refers to an Azure Key Vault-stored digital certificate used to digitally sign the request or authenticate securely during submission.



☑ Step 8: Web Application (Auth2.0)

Note – this is a sample web application created for other purpose. It is not for Spain SII AEAT submission

- A Web Application is where you define the OAuth 2.0 authentication settings for connecting securely to external APIs (e.g. Logic Apps, government systems).
- Imagine this as your login and token generator for accessing protected web services. You don't call the API here. This setup just helps authenticate the call.

The screenshot shows the 'Web applications' configuration page in Dynamics 365. The left sidebar has a search bar and a list with 'YP_Web_AccessToken' selected. The main area is titled 'Web applications' and shows the configuration for the selected application. The configuration is divided into several sections: 'General' (containing 'REQUEST PARAMETERS' with fields for Base URL, Authorisation URL path, Token URL path, and Redirect URL), 'Access token receipt date and time', 'Access token validity period (sec)', 'Access token', 'Access token date time', 'AT validity period', 'AUTHORISATION PARAMETERS' (with Client ID, Client secret, and Server token), 'ACCESS TOKEN DETAILS' (with Granted scope and Access token will expire in), 'ELECTRONIC REPORTING PARAMETERS' (with Authorisation format mapping and Import token model mapping), and 'WEB REQUEST PARAMETERS' (with Accept and Content type).

☑ Step 9: Electronic Message (Container)

- An **Electronic Message** is the **container or envelope** that holds all the data and actions related to a regulatory communication or document submission. It
 - Gets created when you're about to send documents (like customer invoices) to a government or external API.
 - Tracks what has been sent, what failed, and what was returned.
 - Connects ER templates, message processing actions, and submission statuses.



My view

Electronic messages

Message	Description	Description	Message status	From date	To date	Description
MTD	Success send		Correcto			

Message Created by User

Action log

This section gives visibility into what the system did and what happened at each stage.

Action	Status from	Status to	Created by	Created date and time	Response code	Response description
GenerateMessageCI		Generado				
SendMessageCI	Generado	Expedido				
ImportResponse	Expedido	Correcto				

Message additional fields

Field name	Description	Field value
------------	-------------	-------------

this as an "extension area" for adding extra info to a message when needed

Items included in message

Message items

Message item	Message item date	Message item type	Message item status	Transmission date	Document number	Account number	Company
12256_5639937731_SINO...	07/2025	FacturasCliente	Correcto	07/2025 12:57:17	SIN025900	42	
12256_5639937732_SINO...	07/2025	FacturasCliente	Correcto	07/2025 12:57:17	SIN025901	42	
12256_5639937733_SINO...	07/2025	FacturasCliente	Correcto	07/2025 12:57:17	SIN025902	42	
12256_5639937734_SINO...	07/2025	FacturasCliente	Correcto	07/2025 12:57:17	SIN025903	42	
12256_5639937735_SINO...	07/2025	FacturasCliente	Correcto	07/2025 12:57:17	SIN025904	42	

- Request sent to AEAT Government site



← Edit + New Delete Open View history Created by Settings References Lasernet Options

Filter

request.xml
Archivo
Electronic messages

response.xml
Archivo
Electronic messages

My view

Attachments for Electronic messages - Message: MTD-003066, Correcto

Description	Type	Attached
request.xml	Archivo	<input checked="" type="checkbox"/> Yes

General

DETAILS

Notes

CREATE

Created by
Cristina Fernandez

Created date and time
11/07/2025 13:49:37

Restriction
Internal

Attachment

FILE INFORMATION	File type	FILE LOCATION
File name request	xml	File location
	Original file name request.xml	

Preview

```
<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope
  xmlns:siiLR="https://www2.agenciatributaria.gob.es/static_files/common/internet/dep/aplicaciones/es/aeat/ssii/fact/ws/SuministroLR.xsd"
  xmlns:sii="https://www2.agenciatributaria.gob.es/static_files/common/internet/dep/aplicaciones/es/aeat/ssii/fact/ws/SuministroInformacion.xsd"
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header />
  <soapenv:Body>
    <siiLR:SuministroLRFacturasEmitidas>
      <sii:Cabecera>
        <sii:IDVersionSii>1.1</sii:IDVersionSii>
        <sii:Titular>
```

More details

- Response received from AEAT Government site



Filter

request.xml
Archivo
Electronic messages

response.xml
Archivo
Electronic messages

My view
Attachments for Electronic messages - Message: MTD-003066, Correcto

Description
response.xml

Type
Archivo

Attached
☒ Yes

General

DETAILS

Notes

CREATE

Created by
Cristina Fernandez

Created date and time
11/07/2025 13:49:42

Restriction
Internal

Attachment

FILE INFORMATION

File name
response

File type
xml

Original file name
response.xml

FILE LOCATION

File location

Preview

<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope
xmlns:env="http://schemas.xmlsoap.org/soap
/envelope/">
<env:Header/>
<env:Body Id="Body">
<siir:RespuestaLRFacturasEmitidas
xmlns:siir="https://www2.agenciatributaria.
gob.es/static_files/common/internet/dep/a
plicaciones/es/aeat/ssii/fact/ws/Suministro
Informacion.xsd"
xmlns:siir="https://www2.agenciatributaria
.gob.es/static_files/common/internet/dep/a
plicaciones/es/aeat/ssii/fact/ws/Respuesta
Suministro.xsd">
<siir:CSV>9686HTEWFRKENQ4X</siir:CSV>
<siir:DatosPresentacion>
<siir:NIFPresentador>B86576790</siir:NIFPres
entador><siir:TimestampPresentacion>11-07-
2025 13:49:42</siir:TimestampPresentacion>

Tips for Country-Specific Submissions

Tip

Why It Helps

Always start with Microsoft's templates

Saves weeks of custom work

Use UAT/test environments for submission

Avoid accidental production posting

Configure Web App + Certificate early

Required for OAuth or mutual TLS

Monitor messages regularly

Rejections can be fixed early

Related Articles

- [GS506 – Pipelines Overview](#)



- [GS507 – Electronic Invoicing](#)
- [GS510 – Reusing Microsoft Features](#)
- [GS515 – Digital Signatures & Key Vault](#)
- [GS517 – Error Handling and Submission Logs](#)

■ Coming Up Next

In [GS517 – Configuring UK MTD VAT Submission in D365FSCM](#), we'll walk through a complete, real-world setup of Making Tax Digital (MTD) for VAT in the UK—connected to the HMRC sandbox environment.

You'll learn:

- How to configure application parameters
- Set up the electronic messaging framework
- Connect and authenticate with the UK government gateway
- Validate your submission end-to-end using test credentials

📖 Continue reading: [GS517 – UK MTD VAT Submission Setup](#) →