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 includes actions like:

  o Generate NF-e

  o Call SEFAZ service (Preview)

  o Store XML and PDF

- Each pipeline feature has list of predefined collection of actions i.e. Cancellation step has following pipeline processing actions

ɪᴛ 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.

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

ɛs 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**.
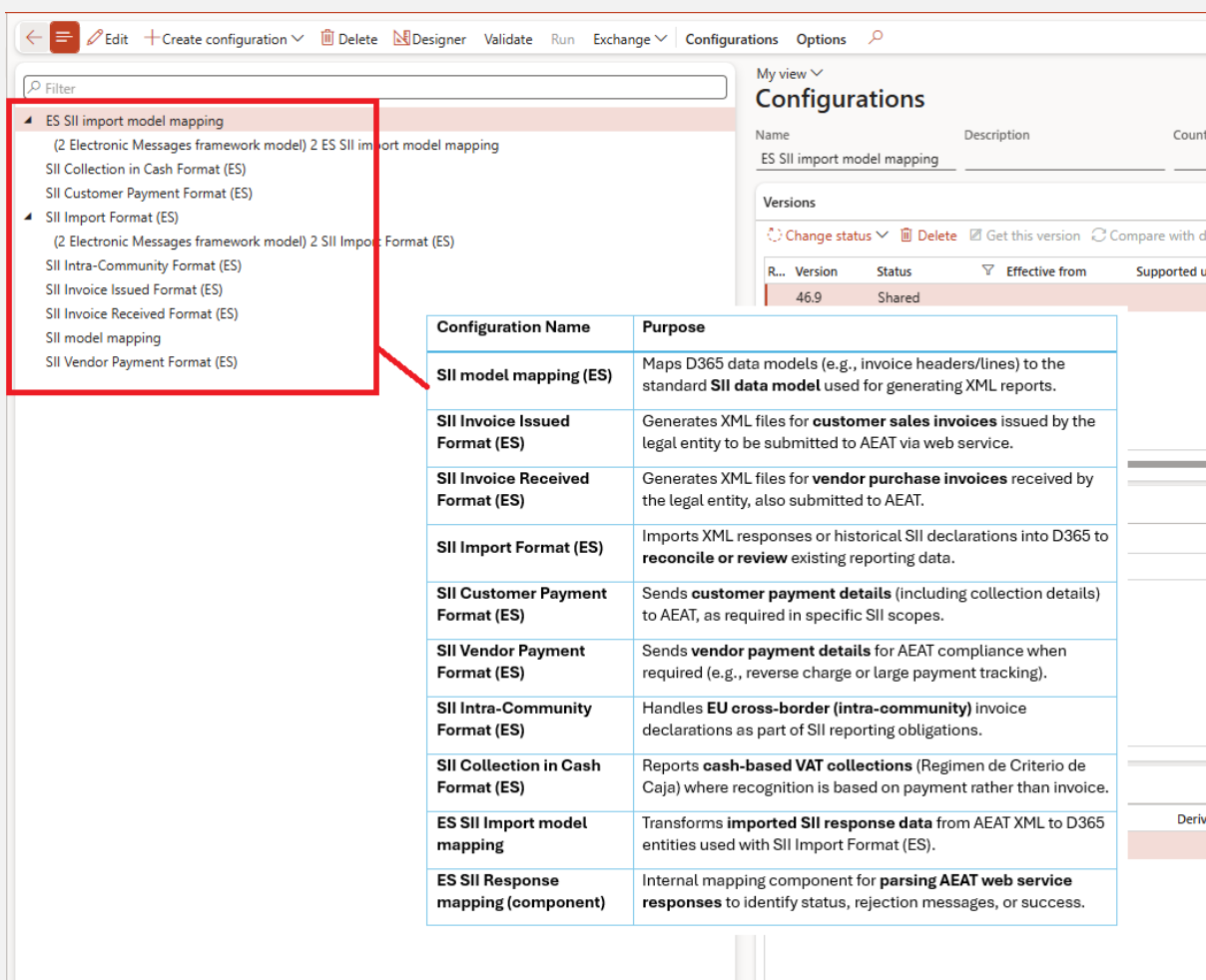
Instead, it's configured through:

- **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:

  o **Model mapping**

o **Format**

☑ Step 3: Electronic Message Statuses

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

Message statuses

Standard view * ⌄

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.

☑ 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.

☑ 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.

Pipeline Actions

☑ 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.

☑ 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.

☑ 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.

- Request sent to AEAT Government site

- Response received from AEAT Government site

🤔 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 →*