eInvoice Agreement Lookup Service

The eInvoice Agreement Lookup service is used to obtain agreement information when processing e-Invoices.

The following table provides an overview of the eInvoice Agreement Lookup service:

System Name	eInvoiceAgreementLookupService
Graphical Process Modeler (GPM) categories)	All Services and eInvoicing
Description	The eInvoice Agreement Lookup service is used to find an e-Invoice agreement.
Business usage	This service is used in processing e-Invoices to obtain agreement information.
Usage example	This service is only called by the e-Invoice process workflow. The first step in the e-Invoice process workflow is to call this service to look up the agreement information and populate ProcessData so that the appropriate workflows and services are invoked properly.
Preconfigured?	eInvoiceAgreementLookupService
Requires third party files?	No
Platform availability	All supported application platforms.
Related services	◆ eInvoice Archive service ◆ eInvoice Archive Status Update service ◆ eInvoice Event service ◆ eInvoice Time Stamping Request service
Application requirements	At least two identities must either already exist or be created (one for supplier and one for buyer). Additionally, at least one agreement must exist or be created using the supplier/buyer identities.
Initiates business processes?	This service does not initiate a business process directly but it determines which subsequent workflows are run as part of the e-Invoice processing. This service is not designed to be used outside the e-Invoice process workflow.
Invocation	Should only be invoked by the e-Invoice process.
Business process context considerations	ProcessData MUST contain either SupplierVAT and BuyerVAT or SupplierLookupID and BuyerLookupID. An optional MessageType can also be specified, if needed.

Returned status values	Success = Agreement found
	Error = Advanced status and status report that describes the error that occurred as follows:
	◆ MissingParms – no lookup parameters found (VATs or LookupIDs)
	◆ NoAgreement – no agreement found for given lookup values
	◆ MultipleAgreements – more than one agreement found for given values
	◆ MissingVAT – the specified VAT was null
	◆ InvalidVAT – the specified VAT is missing country code
	Note: This does not validate the county code.
	◆ LicenseError – service not licensed for use
	◆ NoPrimaryDocument – error occurs if the PrimaryDocument does not exist
	◆ NoPermission – error occurs if the user does not have permission to access VAT
	◆ NoSupplierId - error occurs when no enabled supplier identity is found for the lookup criteria
	◆ NoBuyerId - error occurs when no enabled buyer identity is found for the lookup criteria
	◆ NoConnection - error occurs if no database connection was obtained
Restrictions	None
Persistence level	Does not set the persistence level, therefore the persistence level defaults to the workflow.
Testing considerations	To test this service, invoke it from a business process (see *Business Process Example* on page 5). Log (error) information for this service is located at:
	Operations > System > Logs > eInvoicing

How the eInvoice Agreement Lookup Service Works

The eInvoice Agreement Lookup service is used in processing e-Invoices to obtain agreement information.

This service is only called by the e-Invoice process workflow. The first step in the e-Invoice process workflow is to call this service to look up the agreement information and populate ProcessData so that the appropriate workflows and services are invoked properly.

Note: The eInvoice Agreement Lookup service does not return agreements between identities that are disabled.

Implementing the eInvoice Agreement Lookup Service

To implement the eInvoice Agreement Lookup service, drop this service into a workflow.

Configuring the eInvoice Agreement Lookup Service

1. Select **Deployment > Services > Configuration**.

2. Search for eInvoice Agreement Lookup service or select it from the list and click **Go!**.

3. Click **Edit**.

4. On the Confirm page, verify that the **Enable Service for Business Processes** check box is selected.

5. Create a business process and specify field settings in the business process (see the description of parameters in *Parameters Passed from Business Process to the Service* on page 3).

Parameters Passed from Business Process to the Service

The following table contains the parameters passed from the business process to the eInvoice Agreement Lookup service:

Parameter	Description
SupplierVAT	The supplier VAT identifier. Required if lookup IDs are not used to find the agreement (if this value was already specified when performing the agreement lookup; if this value does not already exist in ProcessData then this service must populate it).
BuyerVAT	The buyer VAT identifier. Required if lookup IDs are not used to find the agreement (if this value was already specified when performing the agreement lookup; if this value does not already exist in ProcessData then this service must populate it).
SupplierLookupID	The supplier lookup identifier code. Required if VAT IDs are not used to find the agreement (if this value was already specified when performing the agreement lookup; if this value does not already exist in ProcessData then this service must populate it).
BuyerLookupID	The buyer lookup identifier code. Required if VAT IDs are not used to find the agreement (if this value was already specified when performing the agreement lookup; if this value does not already exist in ProcessData then this service must populate it).
MessageType	The message type. Optional.
ErrorWhenNoAgreementFound	Whether to set the workflow status to Success or Failed if an agreement is not found. Valid values are: True (default - set status to Failed) and False (set status to Success). Optional.
PostProcessWhenNoAgreementFound	Specifies a workflow (business process) to run when ErrorWhenNoAgreementFound is set to False and no agreement is found. Optional.

Parameters Passed from the Service to the Business Process

The following table contains the parameters passed from the eInvoice Agreement Lookup service to the business process:

Parameter	Description
DocumentFormat	The document format. Valid values are: Generic, PDF, and XML. Required.

Parameter	Description
DigitalSignatureFormat	The format of the digital signature used. Valid values are: PKCS7, SMIME, XMLSIG, XMLCON, and PDF. Required. **Note:** Use the XMLCON format if you need to produce XML signatures that support a double-signature (for example, signatures for two countries). We recommend you use XMLCON format instead of XMLSIG. The XMLCON signature format is not valid with PDF or GENERIC document formats; it is only valid with XML-formatted documents.
TestProdIndicator	Indicates whether the e-Invoice process is test or production. Valid values are: 1 (test) and 2 (production). Required.
TranslationMap	The map used to translate the invoice to the canonical format. Required.
ReceiverTag	The buyer country code. Required.
SenderTag	The supplier country code. Required.
SupplierArchiveType	The type of supplier-side archive. Valid values are: INTERNAL, EXTERNAL, and CUSTOM. Required if performing supplier processing.
BuyerArchiveType	The type of buyer-side archive. Valid values are: INTERNAL, EXTERNAL, and CUSTOM. Required if performing buyer processing.
SupplierArchiveProcess	The archive process to run if the SupplierArchiveType is EXTERNAL or CUSTOM. Required if the SupplierArchiveType is EXTERNAL or CUSTOM.
BuyerArchiveProcess	The archive process to run if the BuyerArchiveType is EXTERNAL or CUSTOM. Required if the BuyerArchiveType is EXTERNAL or CUSTOM.
SupplierEmail	The e-mail address for the supplier (used to notify if errors occur). This field is populated only if the **NotifySupplier** flag is set to **true** and the Error Notification E-mail is specified in the identity.
BuyerEmail	The e-mail address for the buyer (used to notify if errors occur). This field is populated only if the **NotifyBuyer** flag is set to **true** and the Error Notification E-mail is specified in the identity.
NotifySupplier	Whether to notify the supplier when errors occur. Valid values are: true (notify) and false (do not notify). Required.
NotifyBuyer	Whether to notify the buyer when errors occur. Valid values are: true (notify) and false (do not notify). Required.
Buyer_Archive_Doc_ GUID	Preassigned Globally Unique Identifier. Required.
Buyer_Details_Doc_ GUID	Preassigned Globally Unique Identifier. Required.
Supplier_Archive_Doc_ GUID	Preassigned Globally Unique Identifier. Required.
Supplier_Details_Doc_ GUID	Preassigned Globally Unique Identifier. Required.

Parameter	Description
SupplierProcessName	The supplier business process to run. Required if the supplier is processing invoices.
BuyerProcessName	The buyer business process to run. Required if the buyer is processing invoices.
PostProcessName	This is the business process to run after the e-Invoicing business process is executed. Required if specified in the agreement.
	Note: For example, if prior to implementing the e-Invoicing Compliance Solution, you would create invoices using one of the enveloping services (X12 Enveloping service, EDIFACT Enveloping service, Generic Envelope service, and so forth) and the invoice envelope definition would contain a business process that would run after the enveloping was finished (to send the invoices to your trading partner). That business process is considered to be your "post-process." For e-Invoicing, the post-process is replaced by the e-Invoicing process. This parameter allows you to specify that the post-process will be automatically run after the e-Invoicing process.

Business Process Example

The following is an example of how the eInvoice Agreement Lookup service is called. However, this service should only be called from the included e-Invoice process provided as part of Sterling e-Invoicing.

```
<process name="example">
  <sequence>
    <operation>
      <participant name="eInvoiceAgreementLookupService"/>
      <output message="toService">
        <assign to="." from="*"/>
      </output>
      <input message="fromService">
        <assign to="." from="*"/>
      </input>
    </operation>
  </sequence>
</process>
```