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## eInvoice Archive Status Update Service

The eInvoice Archive Status Update service updates the operational status of an invoice to either Failed or Info if the invoice is stored in the archive. It also adds a description explaining why the status was updated.

The following table provides an overview of the eInvoice Archive Status Update service:

System Name	eInvoiceArchiveStatusUpdateService
Graphical Process Modeler (GPM) categories)	All Services and eInvoicing
Description	The eInvoice Archive Status Update service updates the operational status of an invoice to Success, Failed, or Info if the invoice is stored in the archive. It also adds a description explaining why the status was updated. The audit entry for the invoice retains the last status value after running this service when the StatusType parameter is INFO. If this parameter is SUCCESS or FAILED, the status of the invoice is SUCCESS or FAILED, respectively. This service can also retroactively change the status of an invoice so that the correct invoice can be easily identified for auditing purposes.
Business usage	This service enables the user to update the status of an invoice stored in the e-Invoicing archive, after it has already been signed or verified by TrustWeaver™. This services also updates the status of an invoice when errors occur.
Usage example	You can use this service to change the status of one of the duplicate invoices to the status of SUCCESS after the invoice is stored in the Integrated Archive.
Preconfigured?	eInvoiceArchiveStatusUpdateService
Requires third party files?	No
Platform availability	All supported application platforms.
Related services	No
Application requirements	You must execute the invoice archive install script before using this service. This script creates the necessary configuration to connect to the archive database and check in the fact models that are required by the Mapped Extraction service. During the install script execution, you must provide all information about the database that will be used as the invoice archive database.
Initiates business processes?	No
Invocation	This service is invoked to run during normal processing after the invoices have already been added to the archive.
Business process context considerations	None
Returned status values	Success = The service successfully updated the archive status of an invoice. Error = More than one invoice was returned, no invoice were returned, or an invoice was found but an issue occurred while creating the audit record.

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Restrictions	None
Persistence level	Does not set the persistence level, therefore the persistence level defaults to the workflow.
Testing considerations	Create a business process to call the service and fill in the parameters. Error (log) information for this service is located at: Operations > System > Logs > eInvoicing

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## How the eInvoice Archive Status Update Service Works

The eInvoice Archive Status Update service updates the operational status of an invoice to User defined custom value if the invoice is stored in the archive. It also adds a description (if a description is provided) explaining why the status was updated.

This service enables the user to update the status of an invoice stored in the e-Invoicing archive, after it has already been signed or verified by TrustWeaver.

This service can also retroactively change the status of an invoice so that the correct invoice can be easily identified for auditing purposes. This service gives you the ability to select a specific invoice out of a set of duplicate invoices to update. Additionally, you can specify a reason for the change (for example, if you change an invoice status from Failed to Success), so you can identify the reason for the update.

The eInvoice Archive Status Update service can change the overall status of an invoice from Failed to Success, as well as from Success to Failed. If there are multiple invoices matching the search criteria of this service, the service either aborts the processing with an error or warning, or continues the processing with a warning and updates the status of all the invoices matching the search criteria.

## Implementing the eInvoice Archive Status Update Service

To implement the eInvoice Archive Status Update service, complete the following task:

Execute the invoice archive install script before using this service. This script creates the necessary configuration to connect to the archive database and check in the fact models that are required by the Mapped Extraction service. During the install script execution, you must provide all information about the database that will be used as the e-Invoice archive database, because the invoice to updated must reside in the Integrated Archive.

## Configuring the eInvoice Archive Status Update Service

1. Select **Deployment > Services > Configuration**.
2. Search for eInvoice Archive Status Update service or select it from the list and click **Go!**.
3. Click **Edit**.
4. Specify field settings in the GPM (see the description of parameters in the section *Setting Up the Service in the GPM* on page 3).
5. Specify field settings in the business process (see the description of parameters in the section *Parameters Passed From Business Process to Service* on page 4).

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

## Setting Up the Service in the GPM

Use the field definitions in the following table to set up the service configuration in the GPM, if necessary:

Parameter	Description
BuyerVatID	The buyer's transaction tax code. Optional.
Description	Explains why the status was updated. Optional.
InvoiceDateFrom	The starting date of the date range for the invoice. Optional. <b>Note:</b> Date must be in the format MM/DD/YYYY.
InvoiceDateTo	The ending date of the date range for the invoice. Optional. <b>Note:</b> Date must be in the format MM/DD/YYYY.
InvoiceLabel	The invoice label. Optional.
InvoiceNumber	The number of the invoice. Optional.
SupplierVatID	The supplier's transaction tax code. Optional.
Invoice Identifier	A descriptor to uniquely identify the invoice. Optional. <b>Note:</b> You define the Invoice Identifier in the map. This allows you to decide which fields are used as the criteria to uniquely identify the invoice, and allows you to change the key based upon the particular partner, business division, and so forth. Typically, this field is a concatenation of fields such as Supplier ID, Buyer ID (or possibly VAT ID), and invoice number. If two invoices have the same Invoice Identifier, they are considered duplicates of each other. The first invoice that is archived is considered a good invoice and any invoice with the same Invoice Identifier and Role that is archived after that is considered to be a duplicate. If this field is not provided in canonical invoice, the combination of the following fields from the canonical invoice are used to uniquely identify the invoice: INVOICE_NUMBER, INVOICE_DATE, SUPPLIER_VAT_ID, BUYER_VAT_ID, and ROLE.
Invoice Identifier Extension	An extension of the invoice identifier to unique identify one duplicate invoice from another. Optional. <b>Note:</b> This is an optional field that you define in the map. This field may contain values such as the Interchange control number, transaction control number, or any other value from the EDI data which may uniquely identify an invoice.
Archive Update Action	Specifies the action to be taken when multiple records are found for a specified criteria while performing a status update. Optional. Valid values are 0 - Exit with exception, 1 - Exit with Warning, 2 - continue with warning.

## Parameters Passed From Business Process to Service

The following table contains the parameters passed from the business process to the eInvoice Archive Status Update service:

Parameter	Description
InvoiceLabel	The invoice label. Optional.
InvoiceNumber	The number of the invoice. Optional.
InvoiceDate(From)	The starting date of the date range for the invoice. Optional. <b>Note:</b> Date must be in the format MM/DD/YYYY.
InvoiceDate(To)	The ending date of the date range for the invoice. Optional. <b>Note:</b> Date must be in the format MM/DD/YYYY.
SupplierVatID	The supplier's transaction tax code. Optional.
BuyerVatID	The buyer's transaction tax code. Optional.
Status ID	The invoice status identifier. Optional. Valid values are: <ul style="list-style-type: none"><li>◆ SIGNED - 1</li><li>◆ VALIDATED - 2</li><li>◆ DUPLICATE - 5</li><li>◆ CUSTOM_FAILED - 98</li><li>◆ CUSTOM_INFO - 99</li></ul>
StatusType	Indicates the general reason why the status was updated. If there was an error you mark it as FAILED. If it was updated simply because they are adding comments to the invoice, the status is INFO. Optional. Valid values are: <ul style="list-style-type: none"><li>◆ 51 - SUCCESS</li><li>◆ 52 - FAILED</li><li>◆ 53 - INFO</li></ul>
ArchiveRole	Specifies which participant created the invoice. Optional.
Description	Explains why the status was updated. Optional.

Parameter	Description
Invoice Identifier	<p>A descriptor to uniquely identify the invoice. Optional.</p> <p><b>Note:</b> You define the Invoice Identifier in the map. This allows you to decide which fields are used as the criteria to uniquely identify the invoice, and allows you to change the key based upon the particular partner, business division, and so forth. Typically, this field is a concatenation of fields such as Supplier ID, Buyer ID (or possibly VAT ID), and invoice number. If two invoices have the same Invoice Identifier, they are considered duplicates of each other. The first invoice that is archived is considered a good invoice and any invoice with the same Invoice Identifier and Role that is archived after that is considered to be a duplicate. If this field is not provided in canonical invoice, the combination of the following fields from the canonical invoice are used to uniquely identify the invoice: INVOICE_NUMBER, INVOICE_DATE, SUPPLIER_VAT_ID, BUYER_VAT_ID, and ROLE.</p>
Invoice Identifier Extension	<p>An extension of the invoice identifier to unique identify one duplicate invoice from another. Optional.</p> <p><b>Note:</b> This is an optional field that you define in the map. This field may contain values such as the Interchange control number, transaction control number, or any other value from the EDI data which may uniquely identify an invoice.</p>
Archive Update Action	<p>Specifies the action to be taken when multiple records are found for a specified criteria while performing a status update. Optional. Valid values are 0 - Exit with exception, 1 - Exit with Warning, 2 - continue with warning.</p>

## Business Process Example

The following is an example of how the eInvoice Archive Status Update service is called:

```
<process name="TestEInvoiceArchiveStatusUpdate">
  <sequence>
    <operation name="eInvoiceArchiveStatusUpdate">
      <participant name="eInvoiceArchiveStatusUpdate"/>
      <output message="Xout">
        <assign to="." from="*"></assign>
        <assign to="InvoiceNumber">IN999933072</assign>
        <assign to="ArchiveRole">1</assign>
        <assign to="StatusType">52</assign>
        <assign to="Description">Item 12 has the wrong amount.</assign>
      </output>
      <input message="Xin">
        <assign to="." from="*"></assign>
      </input>
    </operation>
  </sequence>
</process>
```

## Enabling eInvoice Archive Status Update Document Tracking

When you are creating or editing your eInvoice Archive Status Update business process in the business process text editor, you can easily enable eInvoice Archive Status Update document tracking in the application by selecting the **Document Tracking** check box on the Process Levels page. Set the following options as needed and leave the rest of the business process parameters as the defaults:

- ◆ On the **Deadline Settings** page, set the deadline and notification options, if necessary.
- ◆ On the **Life Span** page, set the life span, if necessary.