# **SAP** Business Network

Auto Generation of a Line Item Credit Memo from a Revised Service Entry Sheet for 42K (Commerce Automation) or 4R2 (Services Procurement) with SAP Business Network & SAP Fieldglass

Planned Release - Month 08, 2025

**Introducing:** Auto Generation of a Line Item Credit Memo from a Revised Service Entry Sheet for 42K (Commerce Automation) or 4R2 (Services Procurement) with SAP Business Network & SAP Fieldglass [NP-34675 & NP-28980]

Innovation For: Buyers & Suppliers Enablement Model: Customer Configured

#### **Feature Description:**

With this feature, you can auto-generate a line-item credit memo when correcting a service sheet. Since SAP Business Network generates the line-item credit memo, suppliers don't have to spend time creating it. This is because the service sheet is already invoiced, so they can simply request its cancellation and create a new one with the correct values.

Auto Generation of a Line Item Credit Memo from a Revised Service Entry Sheet for 42K (Commerce Automation) or 4R2 (Services Procurement) with SAP Business Network & SAP Fieldglass [NP-34675 & NP-28980]

Solution For: 42K(Commerce Automation) & 4R2 (Services Procurement with SAP Business Network & SAP Fieldglass)

**Solution Area:** Services Procurement

Persona: Buyer & Supplier



#### **Key Benefits:**

- Automatically reversing the invoice and generating a line-item credit memo when the service sheet linked to it is corrected.
- Simplification of the process in case there is a mistake at the moment of the service sheet was created.
- Reduce the errors in case the supplier creates the Line-Item
   Credit memo but did not request the cancellation of the service sheet.

#### **Prerequisites, Restrictions, Cautions**

#### **Prerequisites**

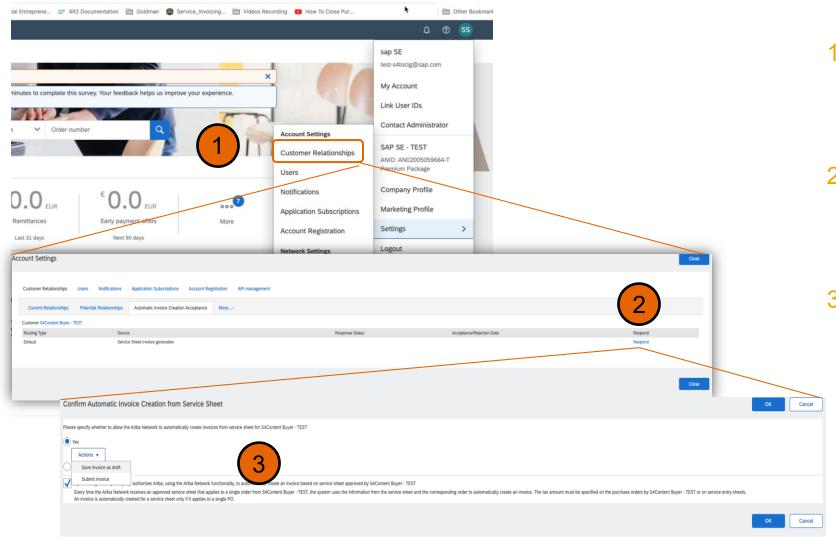
- Ensure that the following integration scenarios have been implemented:
  - Automation of Source-to-Pay with Ariba Network (42K) OR
  - Services Procurement with SAP Business Network and SAP Fieldglass (4R2)
- Ensure that the Enable automatic generation of line-item credit memo from service entry sheet correction rule is enabled at country rule, supplier group level, or default transaction rule under invoice rules.
- Ensure that the **supplier consent** for the generation of correction service entry sheet and of line-item credit memo is accepted in the invoice creation acceptance tab.
- Ensure that the Allow change orders in invoice aggregation rule is enabled in the SAP Business Network buyer account.
- Ensure that the Allow suppliers to create correction service sheet transaction rule is enabled and the sub rule "with positive values (Enhanced)" is selected.
- Ensure that the **Allow suppliers to reuse service sheet numbers** transaction rule is enabled and the sub rule "Canceled" is selected.
- Ensure that the **Auto-generate service sheets from service invoices** transaction rule is **disabled** in the SAP Business Network buyer account.
- Ensure that the **Allow suppliers to send line-item credit memo** transaction rule is enabled and the sub rules Quantity Adjustment and Quantity Adjustment For Contract Line-level credit memo (Optional). Ensure that the **Document Preference** are set correctly for the service sheet and invoices.

#### Restrictions

- If the service entry sheet contains contract items or ad hoc items added from P2P then it cannot be edited in SAP Business Network. The supplier has to remove such items and add the new ones.
- The option to autogenerate a line item credit memo against a service sheet revision and the auto generation of a invoice against a service sheet is the same. If the supplier consent this option it will affect both cases.

### **Supplier Consent**

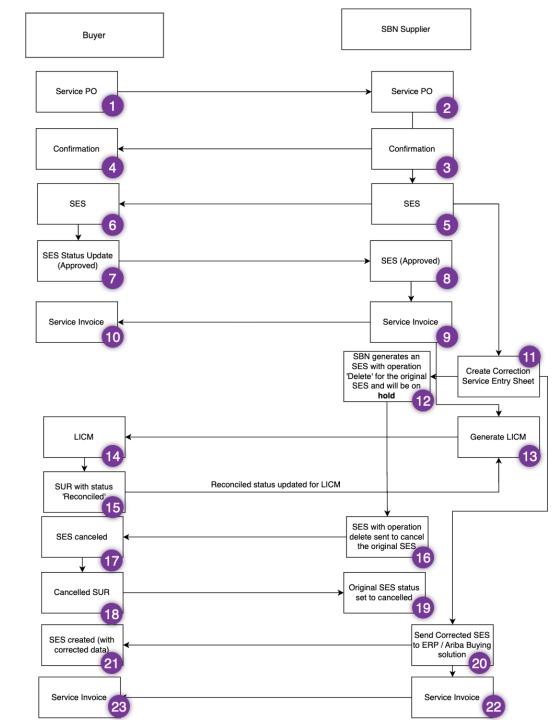
The supplier must consent that SAP Business Network generates the Line-Item Credit memo on behalf of them



- As a supplier, you need to go to Settings>>Customer Relationships>>Automatic Invoice Creation Acceptance
- A record which has as a source "Service Sheet Invoice Generation" contains a link "Respond".
- 3. The Respond link displays another popup to confirm that he/she agrees to allow the generation of an invoice against a service sheet and line-item credit generation against a service sheet correction.

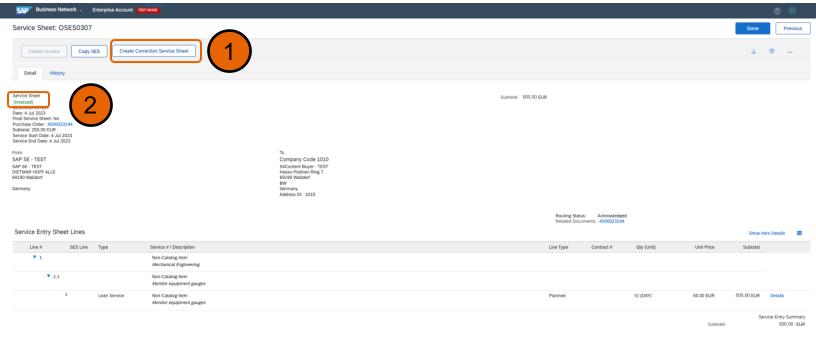
#### **Correction - Commerce Automation Process flow**

- 1. Buyer creates a Service Purchase Order and sends to supplier
- 2. Supplier confirms the Service Purchase Order
- 3. Supplier creates a SES and sends to buyer
- 4. Buyer approves the SES and send the approved SUR to supplier
- 5. Supplier creates service invoice and sends to buyer
- 6. Supplier realizes that there is a mistake in the submitted SES. Supplier tries to correct/revise the SES. Supplier corrects the SES and submits it
- SBN generates LICM for the Invoice and sends to buyer. In buyer ERP, LICM is created
- 8. Buyer sends the status update request with reconciled status to supplier
- 9. Once supplier receives the reconciled status, SBN sends the cancelled SES to buyer. The original SES gets cancelled in the buyer's ERP system.
- 10. ERP sends the cancel status update request to supplier
- 11. Upon receiving the cancel SES status update request, SBN sends the revised/corrected SES to the buyer's ERP
- 12. Once buyer approves the revised SES, supplier can create an Invoice for the revised SES



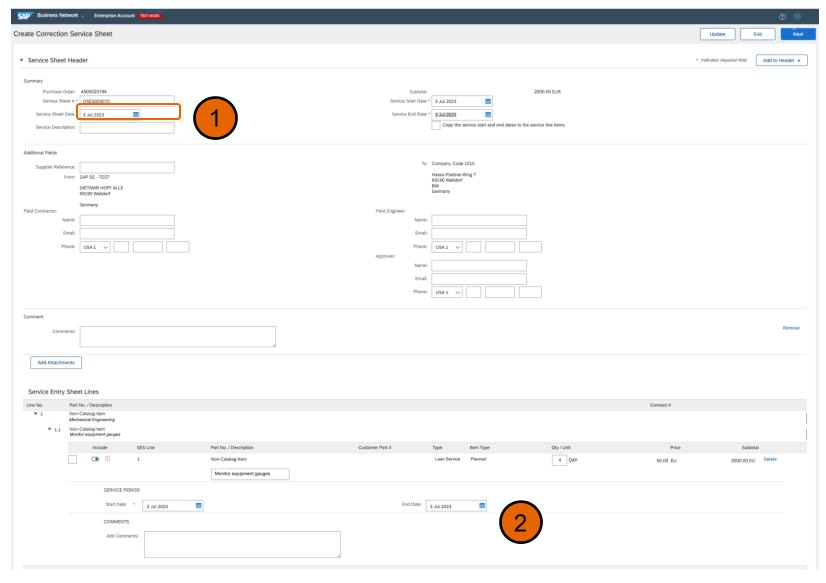
#### Create a correction of a service sheet

The option to create a correction of the service sheet would be displayed if the service sheet is invoiced.



- Option to make a correction of a service sheet.
- 2. The service sheet must have the status as "Invoiced" to auto generate the Line Item Credit Memo.

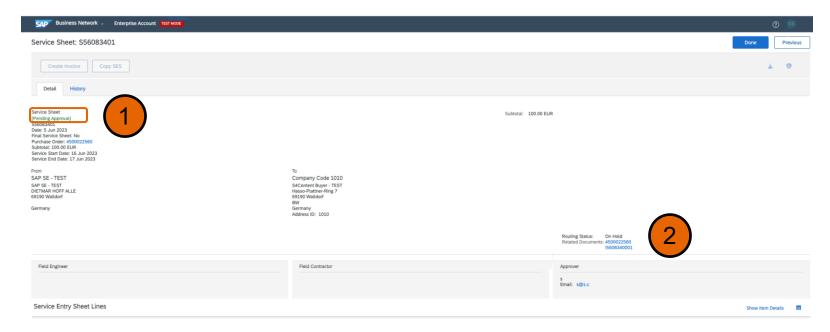
#### Create a correction of a service sheet



The correction of the service sheet allows to modify the values like a new service sheet. However, SBN validates it against the purchase order.

- 1. The Service Sheet number has to be unique.
- 2. The supplier has the option to increase, reduce the quantities for planned line items. In case it is unplanned then the option to modify the price is also available.

#### Create a correction of a service sheet

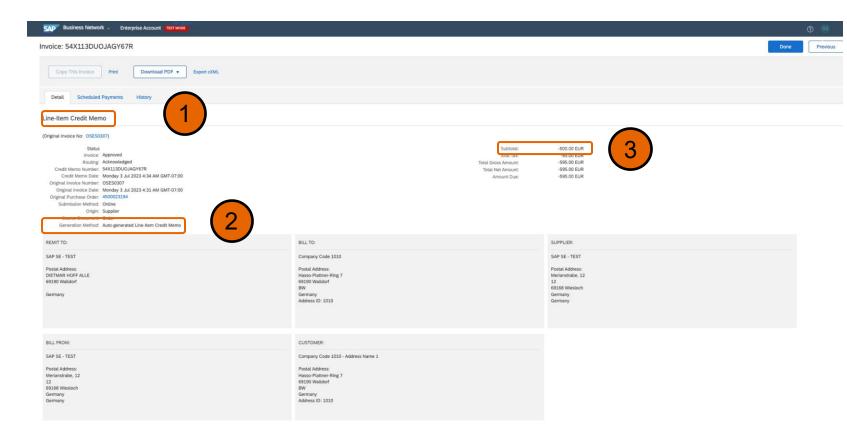


The correction of the service sheet generates a new service sheet with the new values which is not sent to the buyer's backend.

- The Service Sheet corrected has the status as "Pending approval".
- 2. The routing status is "On Hold"

Ariba Network auto-generates the Line Item Credit memo associated to the corresponding invoice associated to the original service sheet.

#### **Auto-Generation of a Line Item Credit memo**



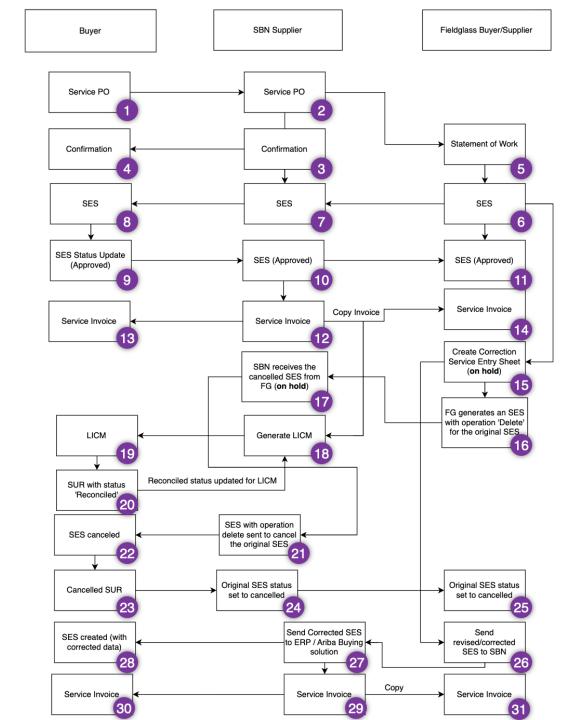
- 1. SAP Business Network generates the Line-Item Credit Memo\*.
- 2. The Line-Item Credit memo page indicates that it was auto generated.
- The Line-Item Credit memo has the same amounts as the original invoice associated to the service sheet.

As soon as the Line-Item Credit memo is accepted in the backend and SAP Business Network receives a message then the system release the cancel service sheet. Once it is approved then the system releases the corrected service sheet.

<sup>\*</sup> In case there is no document preference for the invoice then the system will assign a random number. It could contain characters and numbers.

# 4R2 Process flow for Correction – Services Procurement with SAP Business Network & SAP Fieldglass

- Buyer creates a Service Purchase Order and sends to supplier
- 2. Supplier confirms the Service Purchase Order. Upon confirmation, the PO is sent as a SoW to SAP Fiedlglass
- 3. Supplier creates a SES in SAP Fieldglass and sends to buyer
- 4. Buyer approves the SES and send the approved SUR to SAP Fieldglass via SBN
- 5. Supplier creates service invoice in SBN and sends to buyer
- 6. Once the Invoice status update is sent by the buyer, the copy of the Invoice is sent to SAP Fleldglass
- 7. Supplier realizes that there is a mistake in the submitted SES. Supplier tries to correct/revise the SES in SAP Fieldglass. Supplier corrects the SES and submits it
- 8. Once the revised/correction SES is submitted in SAP Fieldglass, SAP Fieldglass generates a cancelled SES and puts the correction SES on hold. The cancelled SES is sent to SAP Business Network.
- SAP Business Network once receives the cancelled SES, put the cancelled SES on hold and generates an LICM.
   The LICM is sent to buyer's backend system
- Buyer sends the Invoice status update (Reconciled status) to SBN and once SBN receives the reconciled status for LICM, SBN send the cancelled SES to buyer's backend system
- 11. The SES is cancelled in the buyer's backend system. ERP sends a status update request with cancelled status to SAP Business Network. SAP Business Network in turn transmits the status to SAP Fieldglass
- 12. SAP Fieldglass now send the revised / corrected SES to buyer's backend system via SAP Business Network
- 13. SES is created with the revised data and subsequently Invoice can be created by the supplier upon SES approval



## **Service Entry Sheet**

#### Service Entry Sheet is created with reference to Purchase Order

```
<Request deploymentMode="test">
    <ServiceEntryRequest>
      <ServiceEntryRequestHeader operation="new" serviceEntryDate="2025-05-14T14:49:01+00:00" serviceEntryID="DLABPE00008014">
         <PartnerContact>
            <Contact addressID="1010" role="from">
               <Name xml:lang="en-US">Plant 1 DE</Name>
               <PostalAddress>
                  <Street>Site_Dietmar-Hopp-Allee 16</Street>
                  <Street></Street>
                  <City>Walldorf</City>
                  <State>DE-BW</State>
                  <PostalCode>69190</PostalCode>
                  <Country isoCountryCode="DE">Germany</Country>
               </PostalAddress>
            </Contact>
         </PartnerContact>
         <PartnerContact>
            <Contact addressID="1010" role="to">
               <Name xml:lang="en-US">Plant 1 DE</Name>
               <PostalAddress>
                  <Street>Site Dietmar-Hopp-Allee 16</Street>
                  <Street></Street>
                  <City>Walldorf</City>
                  <State>DE-BW</State>
                  <PostalCode>69190</PostalCode>
                  <Country isoCountryCode="DE">Germany</Country>
               </PostalAddress>
            </Contact>
         </PartnerContact>
         <DocumentReference payloadID=""></DocumentReference>
         <Period endDate="2025-05-01T00:00:00+00:00" startDate="2025-05-01T00:00:00+00:00">
         <Extrinsic name="Accruals">Yes</Extrinsic>
         <Extrinsic name="ApprovalLevel">2.00</Extrinsic>
         <Extrinsic name="ServiceEntrySheetID">To Be Updated Via CF Update Integration/Extrinsic>
         <Extrinsic name="Status">31</extrinsic>
         <Extrinsic name="AribaNetwork.LegacyDocument"></Extrinsic>
      </ServiceEntryRequestHeader>
```

### Service Entry Sheet Status Update (Approved)

#### Service Entry Sheet is approved by the buyer

#### Invoice

#### Invoice is created with reference to service entry sheet

```
<Request deploymentMode="test">
  <InvoiceDetailRequest>
     <InvoiceDetailRequestHeader invoiceDate="2025-05-14T09:53:18-05:00" invoiceID="DLAB8014" invoiceOrigin="supplier" operation="new" purpose="standard">
          <InvoiceDetailHeaderIndicator/>
          <InvoiceDetailLineIndicator isAccountingInLine="yes" isTaxInLine="yes"/>
          <InvoicePartner> ... </InvoicePartner>
          <InvoicePartner>
              <Contact addressID="1010" role="billTo"> ... </Contact>
          </InvoicePartner>
          <InvoicePartner> ... </InvoicePartner>
          <InvoicePartner> ... </InvoicePartner>
          <InvoicePartner> ... </InvoicePartner>
          <InvoiceDetailShipping> ... </InvoiceDetailShipping>
          <PaymentTerm payInNumberOfDays="14"> ... </PaymentTerm>
          <PaymentTerm payInNumberOfDays="20"> ... </PaymentTerm>
          <PaymentTerm payInNumberOfDays="30"> --- </PaymentTerm>
          <Extrinsic name="buyerVatID">DE123456789</Extrinsic>
          <Extrinsic name="invoiceSourceDocument">PurchaseOrder</Extrinsic>
          <Extrinsic name="invoiceSubmissionMethod">Online/Extrinsic>
      </InvoiceDetailRequestHeader>
     <InvoiceDetailOrder>
         <InvoiceDetailOrderInfo>
              <0rderReference orderID="4500124781">
                  <DocumentReference payloadID="543612bb-b0c9-45ae-7b6a-02ff2b234898"/>
             </orderReference>
         </InvoiceDetailOrderInfo>
          <InvoiceDetailServiceItem invoiceLineNumber="1" quantity="1">
              <InvoiceDetailServiceItemReference lineNumber="10">
                  <Classification domain="NotAvailable">2</Classification>
                  <ItemID>
                      <SupplierPartID>DLABTQ00005325/SupplierPartID>
                  <Description xml:lang="en-US">AK 20250514-1 - Test of Service 4R2/Description>
              </InvoiceDetailServiceItemReference>
              <ServiceEntryItemReference serviceEntryDate="2025-05-14T14:49:01+00:00" serviceEntryID="DLABPE00008014" serviceLineNumber="7">
                  <DocumentReference payloadID="z25051414494533885850a1d@fieldglass.com"/>
              </ServiceEntryItemReference>
```

#### **Correction Service Entry Sheet**

Correction service entry sheet is created from the original service entry sheet

```
<Request deploymentMode="test">
   <ServiceEntryRequest>
      <ServiceEntryRequestHeader operation="new" serviceEntryDate="2025-05-14T15:05:36+00:00" serviceEntryID="DLABPE00008016">
          <PartnerContact> ... </PartnerContact>
          <PartnerContact> ... </PartnerContact>
         <DocumentReference payloadID=""></DocumentReference>
         <Period endDate="2025-05-01T00:00:00+00:00" startDate="2025-05-01T00:00:00+00:00">
          <Extrinsic name="Accruals">Yes</Extrinsic>
          Extrincia namo-"Annroyall aya ">2 @@ /Extrincia
         <Extrinsic name="ServiceEntrySheetID">81595</Extrinsic>
         <Extrinsic name="Status">31</Extrinsic>
         <Extrinsic name="AribaNetwork.LegacyDocument"></Extrinsic>
      </ServiceEntryRequestHeader>
      <ServiceEntryOrder>
          <ServiceEntryOrderInfo>
             <0rderReference orderID="4500124781">
               <DocumentReference payloadID=""></DocumentReference>
            </0rderReference>
         </ServiceEntryOrderInfo>
         <ServiceEntryItem quantity="2.00" serviceLineNumber="7" type="service">
            <ItemReference lineNumber="10">
                <ItemID>
                  <SupplierPartID>DLABTQ00005325/SupplierPartID>
                  <BuyerPartID></BuyerPartID>
               </ItemID>
               <Description xml:lang="en-US">AK revise 20250514-1 - Test of Service 4R2/Description>
             </ItemReference>
             <MasterAgreementIDInfo agreementID=""></MasterAgreementIDInfo>
             <UnitOfMeasure>HUR</UnitOfMeasure>
             <UnitPrice>
               <Money currency="EUR">70.00</Money>
             </UnitPrice>
             <Period endDate="2025-05-31T10:00:00+00:00" startDate="2025-04-01T10:00:00+00:00">
             <SubtotalAmount>
               <Money currency="EUR">140.00
             </SubtotalAmount>
```

#### **Cancelled SES**

#### Cancelled SES is generated for the original SES and kept on hold

```
<Request deploymentMode="production">
<ServiceEntryRequest>
   <ServiceEntryRequestHeader operation="delete" serviceEntryDate="2025-05-14T14:49:01+00:00" serviceEntryID="DLABPE00008014">
      <PartnerContact> ... 
      <PartnerContact> ... </PartnerContact>
      <DocumentReference payloadID="z25051414494533885850a1d@fieldglass.com"/>
      <Period endDate="2025-05-01T00:00:00+00:00" startDate="2025-05-01T00:00:00+00:00"/>
      <Extrinsic name="Accruals">Yes</Extrinsic>
      <Extrinsic name="Operation">Correction</Extrinsic>
      <Extrinsic name="ServiceEntrySheetID">81595</Extrinsic>
      <Extrinsic name="Status">44
      <Extrinsic name="AribaNetwork.LegacyDocument"/>
    </ServiceEntryReguestHeader>
   <ServiceEntrvOrder>
      <ServiceEntryOrderInfo>
         <0rderReference orderID="4500124781">
            <DocumentReference payloadID=""/>
         </0rderReference>
      </ServiceEntryOrderInfo>
      <ServiceEntryItem quantity="1.00" serviceLineNumber="7" type="service">
         <ItemReference lineNumber="10">
            <ItemID>
               <SupplierPartID>DLABTQ00005325/SupplierPartID>
               <BuyerPartID/>
            </ItemID>
            <Description xml:lang="en-US">AK 20250514-1 - Test of Service 4R2</Description>
         </ItemReference>
         <MasterAgreementIDInfo agreementID=""/>
         <UnitOfMeasure>HUR</UnitOfMeasure>
         <UnitPrice>
            <Money currency="EUR">70.00</Money>
         </UnitPrice>
         <Period endDate="2025-05-31T10:00:00+00:00" startDate="2025-04-01T10:00:00+00:00"/>
         <SubtotalAmount>
            <Money currency="EUR">70.00</Money>
         </SubtotalAmount>
```

#### Line item credit memo

#### System generates a line item credit memo

```
<InvoiceDetailRequest>
  <InvoiceDetailRequestHeader invoiceDate="2025-05-14T08:08:03-07:00" invoiceID="0VP91JWRU20MAJUN" invoiceOrigin="supplier" operation="new" purpose="lineLevelCreditMemo">
      <InvoiceDetailHeaderIndicator/>
      <InvoiceDetailLineIndicator isAccountingInLine="yes" isTaxInLine="yes"/>
      <InvoicePartner> ... </InvoicePartner>
      <InvoicePartner> ... </InvoicePartner>
      <InvoicePartner> ... </InvoicePartner>
      <InvoicePartner> ... </InvoicePartner>
      <InvoicePartner> ... </InvoicePartner>
     <InvoiceIDInfo invoiceDate="2025-05-14T09:53:18-05:00" invoiceID="DLAB8014"/>
      <Extrinsic name="buyerVatID">DE123456789</extrinsic>
      <Extrinsic name="invoiceSourceDocument">PurchaseOrder</Extrinsic>
      <Extrinsic name="invoiceSubmissionMethod">Online</Extrinsic>
      <Extrinsic name="isAutoflip">yes</Extrinsic>
  </InvoiceDetailRequestHeader>
  <InvoiceDetailOrder>
      <InvoiceDetailOrderInfo>
          <0rderReference orderID="4500124781">
              <DocumentReference payloadID="543612bb-b0c9-45ae-7b6a-02ff2b234898"/>
      </InvoiceDetailOrderInfo
      <InvoiceDetailServiceItem invoiceLineNumber="1" quantity="-1">
          <InvoiceDetailServiceItemReference lineNumber="10">
              <Classification domain="NotAvailable">2</Classification>
              <ItemID>
                  <SupplierPartID>DLABTQ00005325/SupplierPartID>
              <Description xml:lang="en-US">AK 20250514-1 - Test of Service 4R2/Description>
          <ServiceEntryItemReference serviceEntryDate="2025-05-14T14:49:01+00:00" serviceEntryID="DLABPE00008014" serviceLineNumber="7">
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          </ServiceEntrvItemReference>
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          </SubtotalAmount>
          <Period endDate="2025-05-31T00:00:01-05:00" startDate="2025-04-01T00:00:01-05:00"/>
          <UnitOfMeasure>HUR</UnitOfMeasure>
          <UnitPrice>
              <Money currency="EUR">70</Money>
          </UnitPrice>
```

### Line item credit memo status update request from buyer

Buyer sends a status update request with reconciled status

#### **Cancelled SES**

```
<Request deploymentMode="production">
 <ServiceEntryRequest>
    <ServiceEntryRequestHeader operation="delete" serviceEntryDate="2025-05-14T14:49:01+00:00" serviceEntryID="DLABPE00008014">
       <PartnerContact> ... </PartnerContact>
       <PartnerContact> --- </PartnerContact>
       <DocumentReference payloadID="z25051414494533885850a1d@fieldglass.com"/>
       <Period endDate="2025-05-01T00:00:00+00:00" startDate="2025-05-01T00:00:00+00:00"/>
       <Extrinsic name="Accruals">Yes</Extrinsic>
       <Extrinsic name="Operation">Correction</Extrinsic>
       <Extrinsic name="ServiceEntrySheetID">81595</Extrinsic>
       <Extrinsic name="AribaNetwork.LegacyDocument"/>
    </ServiceEntryRequestHeader>
    <ServiceEntrvOrder>
          <OrderReference orderID="4500124781">
             <DocumentReference payloadID=""/>
       <ServiceEntryItem quantity="1.00" serviceLineNumber="7" type="service">
          <ItemReference lineNumber="10">
            <ItemID>
               <SupplierPartID>DLABT000005325/SupplierPartID>
                <BuyerPartID/>
            </ItemID>
             <Description xml:lang="en-US">AK 20250514-1 - Test of Service 4R2/Description>
          </ItemReference>
          MasterAgreementIDInfo agreementID=""/>
          <UnitOfMeasure>HUR</UnitOfMeasure>
            <Money currency="EUR">70.00</Money>
          </UnitPrice>
```

Cancelled SES that was kept on hold is sent to buyer.

Once the SES is cancelled in the buyer's backend, cancelled status update request is sent to supplier

#### **Correction Service Entry Sheet**

Correction service entry sheet that was kept on hold is sent to buyer's backend once the cancelled SUR is received by supplier

```
<Request deploymentMode="test">
   <ServiceEntryRequest>
      <ServiceEntryRequestHeader operation="new" serviceEntryDate="2025-05-14T15:05:36+00:00" serviceEntryID="DLABPE00008016">
          <PartnerContact> --- </PartnerContact>
          <PartnerContact> --- </PartnerContact>
         <DocumentReference payloadID=""></DocumentReference>
         <Period endDate="2025-05-01T00:00:00+00:00" startDate="2025-05-01T00:00:00+00:00">
          <Extrinsic name="Accruals">Yes</Extrinsic>
         <Extrinsic name="ServiceEntrySheetID">81595</extrinsic>
         <Extrinsic name="Status">31</Extrinsic>
         <Extrinsic name="AribaNetwork.LegacyDocument"></Extrinsic>
      </ServiceEntryRequestHeader>
      <ServiceEntryOrder>
         <ServiceEntryOrderInfo>
             <0rderReference orderID="4500124781">
               <DocumentReference payloadID=""></DocumentReference>
            </0rderReference>
          </ServiceEntryOrderInfo>
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            <ItemReference lineNumber="10">
                <ItemID>
                  <SupplierPartID>DLABTQ00005325/SupplierPartID>
                  <BuyerPartID></BuyerPartID>
               </ItemID>
               <Description xml:lang="en-US">AK revise 20250514-1 - Test of Service 4R2/Description>
            </ItemReference>
            <MasterAgreementIDInfo agreementID=""></MasterAgreementIDInfo>
            <UnitOfMeasure>HUR</UnitOfMeasure>
            <UnitPrice>
               <Money currency="EUR">70.00</Money>
            </UnitPrice>
            <Period endDate="2025-05-31T10:00:00+00:00" startDate="2025-04-01T10:00:00+00:00"></period>
            <SubtotalAmount>
               <Money currency="EUR">140.00
             </SubtotalAmount>
```

# Thank you.

Contact information:

Aravind Chokkalingam aravind.Chokkalingam@sap.com



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