



DSM

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SAP Ariba Supplier Integration Solution Blueprint

March 2020

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VERSION HISTORY

This log is updated each time an update is made to this guide. The log identifies the version number, the date the version was completed, the author of the changes, and a brief description of the changes.

Version	Date	Author	Description
1.0	03.04.2020	Nikolay Angelov	Initial Version of Document
1.1	07.04.2020	Nikolay Angelov	Formatting and wording changes
1.2	05.08.2020	Nikolay Angelov	Change in invoice requirements - IBAN
1.3	02.11.2020	Nikolay Angelov	Change in invoice requirements - CompanyCode
1.4	29.10.2021	Nikolay Angelov	Included Service PO and INV samples

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PROJECT DYNAMICS

Company	Contact	Role	Email	Phone
SAP Ariba	Nikolay Angelov	Seller Integrator	nikolay.angelov01@sap.com	
SAP Ariba	Martin Simkanin	Supplier Enablement Lead	martin.simkanin@sap.com	
SAP Ariba	Marek Konigsmark	Catalogue integrator	m.konigsmark@sap.com	
DSM	Elvier Kleijnen	Project Lead (Supplier Enablement lead)	Elvier.Kleijnen@dsm.com	
Supplier		Project Lead		
Supplier		Technical (Developer)		
Supplier		Testing Contact		

Catalog Integrator:

- Support setup and testing of Catalog with DSM and supplier.

Project Lead (Supplier):

- Main contact for project coordination.
- Provide commitment to project timeline.
- Understand DSM's transaction validation rules.
- Participate in status meetings.

Project Lead (DSM):

- Main contact for project coordination.
- Enforce compliance of project timelines.

Seller Integrator:

- Manage end-to-end supplier integration.
- Troubleshoot failed/rejected documents.
- Ensure timely completion of project milestones.
- Escalate issues to appropriate person/team.

Supplier enablement Lead:

- Consolidate all supplier's enablement status for reporting to customer.

Technical (Developer) (Supplier):

- Provide technical details for integration to back-end systems.
- Perform data mapping.
- Assist in troubleshooting document failures.
- Coordinate go live with functional resource.

Testing Contact (DSM):

- Provide technical details for integration to back-end systems.
- Perform data mapping.
- Assist in troubleshooting document failures.
- Coordinate go live with functional resource.

Testing Contact (Supplier):

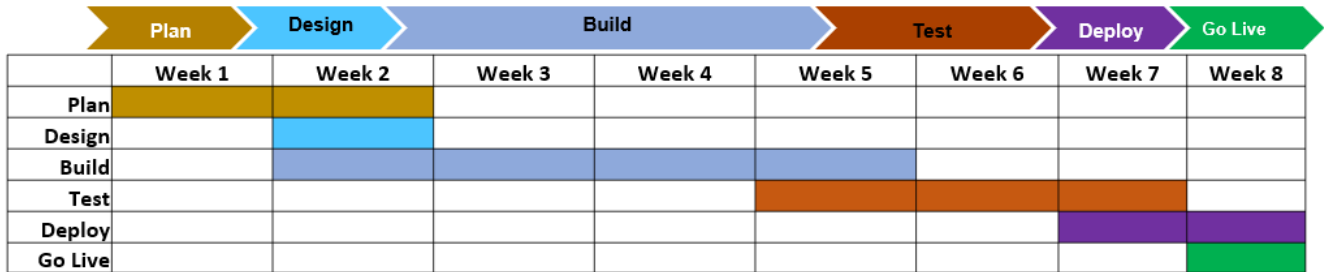
- Define & Validate catalogue content with Supplier.
- Generate Test Orders.
- Reconcile and approve invoices.
- Assist in other testing activities, coordinate go-live.
- Download & validate applicable test transactions; load & process through ERP.

TIMELINES AND SCHEDULES

SAP Ariba Integration Methodology Timeline

- Planning and testing are the most critical and time-consuming steps
- Milestone dates to be determined at kick-off meeting
- If Invoice/Order Confirmation are in scope, can the supplier support by using the Ariba portal while integration testing is ongoing?
- If catalogs are in scope, activity should start at least two weeks prior to the Plan phase

NB: Timeline below is to be used as a guideline and is subject to change based on level and/or complexity of scope. Supplier’s input and/or availability may also impact timelines.



Plan

- Kick-off meeting
- Define project scope
- Document business rules
- Prepare project schedule, with milestones
- Confirm resources are in place
- Governance model in place
- Commitment from all parties

Design

- Supplier’s technical solution defined
- Development timelines defined
- Relationship established on SAP Ariba
- SAP Ariba network account configured
- Test scenario’s defined

Build

- Supplier develops mapping requirements
- Establish connectivity to the AN
- Submit sample documents for validation
- SIT testing

Test

- UAT testing with pre-defined test scripts
- Validation solution meets requirements
- Formal sign-off and acceptance

Deploy

- Migration to production
- Supplier migrates maps to production
- AN account is setup
- Change management in place

Go Live

- Confirm transactions in production
- SI post-production support (2 weeks)
- Project close

Project Schedule

Milestone	Start Date	End Date
Plan		
Design		
Build		
Test		
Deploy		
Go Live		

Contingency Plan

Discuss what the contingency plan will be if target dates are not achievable.

Document:

- Why dates were missed
- New target dates
- How supplier will transact in the meantime

ASSUMPTIONS & CONSTRAINTS

Assumptions

- There will be a single primary point of contact with each Trading Partner for Project Management activities.
- It is assumed that assigned resources have the correct skills and knowledge to complete all responsibilities.
 - Knowledge of business operations with customer
 - Experienced Developers

Constraints

Provide details of any challenges that would impact the scope and/or project time line.

- Competing Priorities
 - Are other integration/capital projects running at the same time?
 - Can this project start now or in the future?
- System Maintenance Schedule
 - Upgrades
 - System refresh
- Resource Constraints
 - Vacations
 - Holidays
 - Knowledge
- Processes
 - Updates/changes to code must be scheduled
 - Go live at certain points of the month
- 3rd Party Dependencies
 - Are changes scheduled or added as needed?
 - Are error notifications/failures communicated back?
 - Is there a dedicated resource to support the project?
 - Will they attend standing calls?

PROJECT SCOPE

Documents In-Scope

- Purchase Order
- Change Order
- Invoice

Optional Documents

- Order Confirmation
- Advanced Ship Notification
- Goods Receipt
- Service Entry Sheet

Document Details and Supplier Transmission

Document	Document Detail	Yes/No/Optional	Delivery cXML/EDI/EDIFACT/Email/On-Line
Orders	Catalog	Yes/No/Optional	
	Non-Catalog	Yes/No/Optional	
	Service Order	Yes/No/Optional	
	Change Order	Yes/No/Optional	
Order Confirmation	Line Level confirmation	Optional	
ASN	Advanced Shipping Notification	Optional	
GRN	Receipt (Goods Receipt Notification)	Optional	
SES	Service Entry Sheet	Optional	
Invoice	PO Based	Yes/No/Optional	
	Service	Yes/No/Optional	
	Credit/Debit Memo	Yes/No/Optional	
Catalog	CIF	Yes/No	
	Punchout	Yes/No	
Cutover Documents	Orders	Yes/No	
	Invoices	Yes/No	

Cutover Documents

- Document how cutover activities will be handled
 - Will PO numbers be the same?
 - Will new PO numbers be sent?
 - Will DSM provide a list of cutover documents?
 - Does the supplier need to manually make changes to open orders?
 - Identify any risks associated with cutover

DOCUMENT REQUIREMENTS

The following tables outline the requirements unique to DSM's procurement environment, as detailed in the Excel Delta document. Not all required elements as outlined in the DTD are represented as this is meant to identify information that is important to DSM.

Orders

General		
<i>Change Orders Allowed</i>	In Scope	
<i>Multiple sources</i>	In Scope	Orders can come in from ERP and Ariba Buying with different structure. Please review samples accordingly.
Header		
<i>Order Number</i>	45XXXXXX – Origin DSM's ERP environment	There are two sources of Purchase Order generation depending on DSM-Supplier relationship and where the data is maintained.
	46XXXXXX – Ariba DSM environment	
<i>Ship To</i>	In scope	Required back on invoice
<i>Bill To</i>	In Scope	Required back on invoice
<i>Payment Terms</i>	In scope	
<i>Comments</i>	Optional	
<i>Attachments</i>	Included/Optional	PDF attachments will be included, but can be left Online
<i>Extrinsic Values</i>	Included	Refer to Extrinsic list in the DSM Delta Requirements file for detailed breakdown
Line Level		
<i>Supplier Part ID</i>	Optional	Depending if article data is maintained or a catalog is present
<i>Unit Price</i>	Amount up to two decimals	Precision Rounding is required See Appendix A for details
<i>Advanced Pricing/Price Basis Quantity</i>	Included	See Appendix B for details
<i>Unit of Measure</i>	Included	Refer to UoM list attached
<i>Extrinsic Values</i>	Included	Refer to dedicated sheet in Delta Requirements attachment

Order Confirmation

General		
<i>Change Orders Allowed</i>	Yes	Allowed for fully and partially shipped orders
Header		
<i>General Rules</i>	Optional	Suppliers are not required to send Order Confirmations
<i>Rejection</i>	allDetail	Full details must be provided. Refer to sample
<i>Attachments</i>		
Line Level		
<i>Changes</i>	Mixed	Change of line item description is not allowed. 10% Tolerance for Quantity and Unit Price is in place
<i>Comments</i>	Optional	
<i>Backorder</i>	Optional	
<i>Delivery Date</i>	Required	
<i>Shipment Date</i>	Required	
<i>Unit Price</i>	Required	
<i>Unit Price Currency</i>	Required	
<i>Item Description</i>	Required	

Advanced Shipping Notification (ASN)

General		
<i>General</i>	Optional	Suppliers are not required to send ASN
Header		
<i>Shipping Date</i>	Required	
<i>Delivery Date</i>	Required	
<i>Attachments</i>	Optional	
<i>Delivery & Transport</i>	Required	
Line Level		
<i>Quantity</i>	Required	
<i>Asset Serial Number</i>	Optional	
<i>Shipment Serial Numbers</i>	Optional	
<i>Packing Slip</i>	Optional	

Invoice

General		
Header		
<i>Invoice Date</i>	3 Days backdating	Backdating is allowed in up to 3 day period
<i>Bill To</i>	Required	Address ID required
<i>Remit To</i>	Required	Remittance information.
<i>Sold To</i>	Required	Needs to match Bill To on PO
<i>Ship To</i>	Required	Address ID required
<i>From</i>	Optional	
<i>Taxes</i>	Required	Line level
<i>Allowance & Charges</i>	Not allowed	
<i>Shipping & Handling</i>	Not allowed	
<i>wireReceivingBank</i>	Required	Bank account details required – Check invoice sample
<i>Payment Net Terms</i>	Required	Required back on the invoice
<i>Attachments</i>	Optional	
<i>Extrinsic fields</i>	Required	Refer to the dedicated Extrinsic tab
Line Level		
<i>Add Line Items</i>	Yes	
<i>Quantity</i>	Greater than 0	No increase in quantity is allowed on the invoice
<i>Unit Price</i>	Required, up to two decimals	Precision rounding is required See Appendix A for details
<i>Advanced Pricing/Price Basis Quantity</i>	Allowed	See Appendix B for details
Summary Detail		
<i>Subtotal Amount</i>	Required	
<i>Tax</i>	Required	
<i>Special Handing Amount</i>	Not allowed	
<i>Shipping Amount</i>	Not allowed	
<i>Gross Amount</i>	Required	
<i>Invoice Detail Discount</i>	Required	If discount is applied on the price
<i>Net Amount</i>	Required	
<i>Due Amount</i>	Required	

VAT Requirements

- Tax is supported at the line level.
- A summary tax amount is required on all invoices even if that amount is zero.
- VAT IDs of DSM and supplier are required as well.

<Extrinsic name = "buyerVatID">FR29421174038</Extrinsic>

<Extrinsic name = "supplierVatID">FR8888888888</Extrinsic>

- In case of VAT is 0%, a reason must be provided.
- Tax point date (the date when the VAT becomes due) is required for all VAT entries.

Please see the following example of a valid VAT tax group on item level (same structure content is required on summary level, the TaxDetail group must be repeated for each VAT rate/tax type).

<Tax>

<Money currency="EUR">0.00</Money>

<Description xml:lang="en-GB">total tax</Description >

<TaxDetail category="vat" exemptDetail="exempt" percentageRate="0.00" taxPointDate="2017-10 12T07:31:58+00:00">

<TaxableAmount>

<Money currency="EUR">50</Money>

</TaxableAmount>

<TaxAmount>

<Money currency="EUR">0.00</Money>

</TaxAmount>

<Description xml:lang="en-GB">0% tax exempt</Description>

</TaxDetail>

</Tax>

Supplier commercial identifier

<Extrinsic name="supplierCommercialIdentifier"> </Extrinsic> and
<Extrinsic name="supplierCommercialCredentials">12345678</Extrinsic>

This should be the **business registration number**. In case this is not available, you can map it as "NA". The CompanyCode ID is also required for all invoice transactions for France.

```
<Extrinsic name="supplierVatID">12345678</Extrinsic>
<Extrinsic name="invoiceSourceDocument">PurchaseOrder</Extrinsic>
<Extrinsic name="invoiceSubmissionMethod">cXML</Extrinsic>
<Extrinsic name = "CompanyCode">1747</Extrinsic>
<Extrinsic name="supplierCommercialIdentifier">12345678</Extrinsic>
<Extrinsic name="supplierCommercialCredentials">12345678</Extrinsic>
</InvoiceDetailRequestHeader>
<InvoiceDetailOrder>
```

NOTE: Strict address validation is enforced. When this rule is enabled, the system will check if the following cXML elements are present and if it has a value:

1. Name
2. PostalAddress.Street
3. PostalAddress.City
4. PostalAddress.State
5. PostalAddress.PostalCode
6. PostalAddress.Country isoCountryCode attribute

Supporting Documentation



DSM_cXML Delta
Requirements.xlsx



Billing Address
List.xlsx



UnitOfMeasure_EU_D
S.xlsx



IncoTerms.xlsx



DSM_D96A.xlsx

Where to Find DSM Transaction Rules

Rules configured by DSM that define how transactions will be validated on the Ariba Network from a technical and business process perspective. These rules define the technical requirements presented in the Ariba Integration Guide and are unique to each DSM.

To view a DSMs transaction rules:

1. Login at supplier.ariba.com
2. Select Company Settings in the blue menu at the top of the page
3. Select Customer Relationships
4. Select the Customer to view their unique rules

CONNECTIVITY AND INFRASTRUCTURE

DSM Profile

Identification	Test	Production
ANID	AN01474320527-T	AN01474320527
DUNS		
DUNS+4		

System Profile	Description
ERP	SAP ECC
Middleware	
Buying Channels	B&I (Buying and Invoicing) Document Automation
UoM Classification	UNUOM
UNSPSC Classification	UNSPSC V11.2 UNSPSC V12.2 Custom

Supplier Profile

Identification	Test	Production
ANID		
DUNS		
DUNS+4		
ISA Qualifier		

System Profile	Description
ERP	SAP R/3 v4.7 SAP ECC 5.0 SAP ECC 6.0 SAP S/4 HANA Oracle 12c v11.2.0.4 Oracle 12c v12.1.0.2 Oracle 12c v12.2.0.1 PeopleSoft In House
Middleware	webMethods Mincom BizTalk In House
UoM Classification	UNUOM ANSI Custom
UNSPSC Classification	UNSPSC V11.2 UNSPSC V12.2 Custom

Supplier ERP Connection

Type	Description
Connection	Cloud Integration Gateway (CIG)
Authentication	<ul style="list-style-type: none"> • Certificate by a Trusted Authority. No self-signed certificates, base64 encoding • Name & Password
VAN	Y/N
Third Party Provider	Provide company information

SUPPLIER ERROR HANDLING & BUSINESS PROCESS

Order Validation

Identify which fields from the Order and Change Order are validated in Supplier's ERP:

- Part Number
- Unit Price
- UOM
- UNSPSC
- Delivery Date
- Service Date (start & end)

Invoice Processing

Identify how the invoices are sent to the AN.

- Real time (individually)
- Batched
- Scheduled run nightly
- Scheduled run next business day *(check if there is any conflict with backdating rule. Would also apply to corrected invoices)*

Error Handling

Discuss and document the process for the various cases below. Add in any other error handling cases.

- What happens when an order is transmitted to the supplier's system, but is not processed?
 - Is there an error log that is monitored?
 - How often are the logs checked?
 - Who is notified?
 - How is this corrected?
 - What is the turn-around time to address failed orders?
- What happens when an order fails on data validation? I.e. Wrong part number, price, UOM.....
 - Who gets notified?
 - How is this corrected?
 - Does the supplier system automatically make substitutions?
 - What is the turn-around time to address failed orders?
- Is there any schema or data validation done on the invoice before it is sent to the AN?
- What is the process if an invoice fails against a business rule in the AN?
- What is the process if an invoice is rejected by the DSM?
- What is the process if duplicate invoice numbers are not allowed when an invoice has failed or been rejected?

Business Processes

Describe any out of the box/unique processes that will be put into place.

Example:

- How change orders will be handled if not supported electronically?
- If order confirmation is not in scope, how will changes be communicated back to DSM?

POST GO LIVE SUPPORT

Seller Integrators provide two weeks support post go live starting with the first transaction in Production. After the two-week period, a Service Request should be created for any assistance. See imbedded deck for detailed instructions.



Supplier%20Support
%20Post%20Go-Live.p

cXML Section for Supplemental Documentation

New cXML supplier to Ariba Network must:

- 1) Support a DTD (document type definition) validation tool internally and download the document type definitions (DTD's) for all supported transactions.
- 2) Support HTTPS protocol. Ariba supports HTTPS (not HTTP) only for cXML transactions.
- 3) Review the cXML Solutions Guide and cXML User Guides.

cXML Document Type Definitions (DTD's):

- <http://cxml.org> Download InvoiceDetail.zip for the InvoiceDetailRequest.dtd.
- <http://cxml.org> Download cXML.DTD for the OrderRequest
- <http://cxml.org> Download Fulfill.dtd for ConfirmationRequest/ShipNoticeRequest

EDI x12 Supplemental Documentation via SAP Ariba Cloud Integration Gateway

New Cloud Integration Gateway supplier to the Ariba Network

- [Cloud Integration Portal Guide](#) (aka. CIG “How to Guide”)

All EDI Supplier Guides

- SAP Ariba PO850 4010 Purchase Order
- SAP Ariba PC860 4010 Purchase Order Change
- SAP Ariba PR855 4010 PO Acknowledgment (Order Confirmation)
- SAP Ariba IN810 4010 Invoice
- SAP Ariba FA997 4010 Functional Acknowledgment (inbound)
- SAP Ariba FA997 4010 Functional Acknowledgment (outbound)

PIDX Supplemental Documentation via SAP Ariba Cloud Integration Gateway

New Cloud Integration Gateway supplier to the Ariba Network

- [Cloud Integration Portal Guide](#) (aka. CIG “How to Guide”)

All PIDX Supplier Guides

- SAP Ariba PIDX OrderCreate OrderChange 1.61 Outbound
- SAP Ariba PIDX OrderResponse 1.61 Inbound
- SAP Ariba PIDX Invoice 1.61 Inbound
- SAP Ariba PIDX InvoiceResponse
- SAP Ariba PIDX Receipt Outbound

If you do not yet have user access to CIG, the SAP Ariba Seller Integrator will forward these documents. Once user access is obtained, the current CIG documentation may be viewed in or downloaded from the CIG Resources section.

SAP ARIBA CUSTOMER SUPPORT FOR SUPPLIERS

How to utilize Help Center and access Customer Support

At SAP Ariba, our goal is to empower Suppliers with the information and tools they need to seamlessly navigate through Ariba Solutions. You can find the answers you need about Ariba products in the SAP Ariba Help Center. You can also contact SAP Ariba Support directly through the Help Center, when necessary.

Access the Help Center

[Sign in to your account](#) (supplier.ariba.com) and look to the right-hand side of your screen to view the Help Center panel. If the panel is collapsed and you can't see any articles, click Help Center >> to expand.

Using the Help Center

The Help Center is the first place to start if you have questions about any Ariba Solution. You can search for answers to functional and navigational questions in our FAQs and Tutorials.


The following tutorials are helpful when you're getting started:

- [Supplier Basics](#)
- [Invoices](#)

Still need more help? Contact Customer Support

If you don't find your answer after searching, you can request direct support via email, chat, or phone (depending on the type of account you have).

To Request Support:

1. Click the  icon in the bottom-right corner of the expanded Help Center. After clicking, you will see a new window titled **Ariba Exchange User Community**.
2. You will see the words **I need help with** next to a search bar. If you don't see this, click **Support** in the upper-right corner of your screen.
3. Search for your issue in the **I need help with** search bar. Based on your search, you may see Guided Assistance. Guided Assistance features a series **Yes** or **No** questions that will guide you either to support options or to relevant content to resolve your issue. If the guided content does not resolve the issue, the following direct support options are presented:

Email SAP Ariba Customer Support

- Send a written online request to SAP Ariba Customer Support via a short webform.
- Provide a Short Description, Details, and Attachment to ensure a fast and accurate response.

Get help by live chat

- Start a live chat with an SAP Ariba Customer Support specialist.

Click to call

- Avoid waiting on the phone. Fill in a short form to request a callback from the next available specialist.

APPENDIX A

Precision Rounding on Invoice

An invoice exception will occur in the Ariba Network if the monetary amount has a mathematical error. There are two general situations where this happens.

1. Monetary values sent are not calculated correctly (net amount/gross amount)
2. A rounding algorithm is being used where the rounding is different from the Ariba Buying & Invoicing solution (B&I)

Two Solutions

1. Send the same monetary values as what was sent on the originating order
2. **In B&I**, set the field **"AmountRoundingForInvoiceExceptionCalculation"** as follows

0 = No rounding: This is the default value. No rounding occurs when Ariba computes the amounts and then compares the amounts against the total invoiced.

1 = Round invoice line item amounts to currency precision: Ariba rounds all line amounts to currency precision, and then totals the line item amounts and compares that to the total invoiced amount.

2 = Round invoice total cost to currency precision: Ariba totals the line items amounts first and then rounds the total amount to currency precision before comparing it to the total invoiced amount.

Without Rounding (0)	With Rounding on Line Amount (1)	With Rounding on Invoice Total (2)
Line 1 2045.046 (price) * 9.94 (quantity) = 20,327.757	20,327.76 (rounded)	20,327.757
Line 2 121.511 (price) * 7.04 (quantity) = 855.43744	855.44 (rounded)	855.43744
Total = 21,183.19444	Totals to 21,183.20	Rounded to 21,183.19

APPENDIX B

Advanced Pricing / Price Basis Quantity (PBQ)

Check if the DSM rules allow for changes to advanced pricing detail. You can find how to do this in “[DSM Transaction Rules](#)” section.

If there is Advanced Pricing/PBQ, the detail section of Pricing details will be sent in the cXML

Usually, Subtotal = Unit Price * Quantity, which in this case will not be true, $60 \neq 48 * 7.50$. ($48 * 7.50 = 360$)

However, for PBQ, the formula used is

Subtotal = Quantity * (Unit Conversion/Price Unit Quantity) * Unit Price

$60 = 48 * (1/6) * 7.50$

Easier way to remember is DSM is selling “item” in pack of 6. So, price 7.50 is price of 6.

Quantity is 48 ($6 * 8$). Even though quantity says 48, actually it is 8 packs of 6. So the subtotal price is $8 * 7.50 = 60$.

Phone: _____

Line Items

Line #	Part # / Description	Customer Part #	Type	Qty (Unit)	Unit Price	Subtotal	Summary
10	80-41015		Material	48.000 (EA)	\$7.50 USD	\$60.00 USD	

SUN BUM CONDITIONER 100Z

Status

0 Invoiced Amount: \$0.00 USD
 48 Shipped (Carrier Name: XPO Logistics; Shipping Date: 4 Apr 2018) Tracking Number: 809613932 Shipment Id: 12701
 48.000 Unconfirmed
 48 Received

Pricing Details

Unit Conversion	Price Unit	Order Unit	Price	Price Unit Quantity	Price Unit
1	EA	EA	\$7.50 USD	6	EA

Other Information

Customer Part No: 00000000002284237
 customsBarCodeNumber: 871760000513
 site: 0811
 PurchaseGroup: 002
 Classification Domain: unspsc
 Classification Code: Generic

```
<ItemOut quantity="48.000" lineNumber="00010" isAdHoc="yes">
  <ItemID>
    <SupplierPartID>80-41015</SupplierPartID>
  </ItemID>
  <ItemDetail>
    <UnitPrice>
      <Money currency="USD">7.50</Money>
    </UnitPrice>
    <Description xml:lang="en-US">SUN BUM CONDITIONER 100Z</Description>
    <UnitOfMeasure>EA</UnitOfMeasure>
    <PriceBasisQuantity quantity="6" conversionFactor="1">
      <UnitOfMeasure>EA</UnitOfMeasure>
    </PriceBasisQuantity>
    <Classification domain="unspsc">Generic</Classification>
    <Extrinsic name="customersPartNo">00000000002284237</Extrinsic>
  </ItemDetail>
</ItemOut>
```

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