



SAP Ariba 

Type definitions

A Catalog learning webinar

SAP Ariba
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Overview of Type Definition files



Overview of Type Definition files

- cXML files
- Parametric search attributes
- Supplemental catalog attributes

Managed by:

- SAP Ariba Catalog Experts (during deployment)
- SAP Ariba Customer Support (after deployment)

Parametric data types

SAP Ariba solutions support optional parametric search data that enables users to perform sophisticated searching based on product-specific properties.

When parametric catalogs are made available to Buyer users, they will be presented with a drop down list containing possible values for a specific parameter (for eg: Color; The user can choose between Blue, Red, Silver, Green from a drop down list for a specific item) using which they can search for the desired product.

COLOR	(RED, YELLOW, BLUE)
MATERIAL	(NYLON, POLYETHYLENE, ALUMINUM)
DIMENSION	(1 FOOT, 2 FOOT, 10 FOOT)
GRADE	(A, AA, AAA)
RATING	(12V, 120V, and 240V)

Supplemental attribute types

Supplemental attributes are custom catalog fields agreed upon by a buying organization and its suppliers for specific business purposes. They are not part of the basic CIF or cXML catalog format.

Step 1. Clean the Data

Step 2. Analyze Data

Step 3. Go Live

Tools:



Live Catalog 

Review the catalog line items, changing which fields are displayed on screen as necessary. Depending on the status of the subscription, you may be able to edit, delete, or add new items.

Number of items in this version: 1.

Hide/Show Fields

Refresh Images

Preview items in search ui

	Line	Description	Internally generated part number	Price		Supplier Name	Supplier Part Auxiliary Id	Supplier Part Id	Type Name	Upload date
				Amount	Currency					
Not Editable	10	genericdescription of the item		12	USD	Ariba P2P Test Supplier		item8955	Vegetation	



Delete

Add New Item

Naming restrictions

SAP Ariba solution requires supplemental and parametric attribute names to be different than the attribute names of the base CatalogItem type:

- TypeName
- SupplierId
- SupplierName
- SupplierPartId
- SupplierPartAuxiliaryId
- ManufacturerPartId
- ManufacturerName
- ManufacturerURL
- Shortname
- UnitOfMeasure
- NonContractPrice
- ContractPrice
- Price
- ExpirationDate
- EffectiveDate
- LeadTime
- TerritoryAvailable
- PunchoutEnabled
- Key
- IsPartial
- URL
- Description
- ClassificationCode
- Language

Do not use these values for any supplemental or parametric attribute names.

File format



Type definition file format

A type definition file is a cXML TypeDefinition document that defines either parametric data types or supplemental catalog attributes.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE TypeDefinition SYSTEM "http://xml.cxml.org/schemas/cXML/1.2.044/Catalog.dtd">
<TypeDefinition>
  <TypeProvider name="System">
    <OrganizationID>
      <Credential domain="NETWORKID">
        <Identity>
          2</Identity>
        </Credential>
      </OrganizationID>
    </TypeProvider>
    <Comments>
      </Comments>
    </Comments>
    <Type name="CatalogItem" extends="System:CatalogItemInternal">
      <Name xml:lang="en_US">Catalog Item</Name>
      <Name xml:lang="fi">Katalogitue</Name>
      <Name xml:lang="el">Είδος καταλόγου</Name>
      <Name xml:lang="ro">Element de catalog</Name>
      <Name xml:lang="hu">Katalógustétel</Name>
      <Name xml:lang="ko">카탈로그 품목</Name>
      <Name xml:lang="ru">Позиция каталога</Name>
      <Name xml:lang="zh_TW">目錄項目</Name>
      <Name xml:lang="da">Katalogartikel</Name>
      <Name xml:lang="de">Katalogartikel</Name>
      <Name xml:lang="es">Artículo de catálogo</Name>
      <Name xml:lang="fr">Article de catalogue</Name>
      <Name xml:lang="it">Articolo di catalogo</Name>
      <Name xml:lang="ja">カタログ品目</Name>
      <Name xml:lang="nl">Catalogusitem</Name>
      <Name xml:lang="no">Katalogelement</Name>
      <Name xml:lang="pl">Pozycja katalogowa</Name>
      <Name xml:lang="pt_BR">Item do catálogo</Name>
      <Name xml:lang="sv">Katalogartikel</Name>
      <Name xml:lang="tr">Katalog Kalemi</Name>
      <Name xml:lang="zh_CN">目录项</Name>
      <TypeAttribute name="SAPMaterialNumber" type="Name" isSearchable="yes">
        <Name xml:lang="en_US">SAP Material Number</Name>
        <Name xml:lang="de_DE">SAP Materialnummer</Name>
        <Extrinsic name="inDetailView">yes</Extrinsic>
      </TypeAttribute>
    </Type>
  </TypeDefinition>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE TypeDefinition SYSTEM "http://xml.cxml.org/schemas/cXML/1.2.044/Catalog.dtd">
<TypeDefinition>
  <TypeProvider name="System">
    <OrganizationID>
      <Credential domain="NETWORKID">
        <Identity>
          2</Identity>
        </Credential>
      </OrganizationID>
    </TypeProvider>
    <Comments>
      </Comments>
    </Comments>
    <Type name="Handgloves_EU" extends="System:catalogitem">
      <Name xml:lang="en_GB">Handgloves_EU</Name>
      <Name xml:lang="de_DE">Handschuhe_EU</Name>
      <Description xml:lang="de_DE">Handschuhe</Description>
      <TypeAttribute name="Handgloves_EU_Size" type="Name" isRefinable="yes" isSearchable="yes" isCollection="yes" isRequiredForOrdering="yes">
        <Name xml:lang="en_GB">EU Size</Name>
        <Name xml:lang="de_DE">EU Grösse</Name>
        <EnumerationValue>
          <EnumerationValue>
            <EnumerationValue>
              <EnumerationValue>
                <EnumerationValue>
                  <EnumerationValue>
                    <EnumerationValue>
                      <EnumerationValue>
                        <EnumerationValue>
                          <EnumerationValue>
                            <EnumerationValue>
                              <EnumerationValue>
                                <EnumerationValue>
                                  <EnumerationValue>
                                  </TypeAttribute>
            </Type>
          </Type>
        </Type>
      </Type>
    </Type>
  </TypeDefinition>
```

Type

Type is the basic element within type definition files. It specifies the name of the type and the object it extends.

Use one Type element per Parametric Name. Use one Type element for all supplemental attributes.

- Description – useful description that differentiates this type from others (available for multilingual configurations)
- Name – user-visible name for this attribute (available for multilingual configuration)
- TypeAttribute – specifies attributes for this data type

Primitive types

Required:

- Name
 - Canonical name of the attribute (keep in mind restrictions)
- Type
 - CurrencyCode
 - Date
 - Description
 - Flag
 - Id
 - Integer
 - Name
 - Number
 - PartId
 - Price
 - etc.

Description	A string containing between 1 and 2000 characters. 2000 characters is the recommended maximum limit for this type.
Flag	A Boolean containing between 1 and 5 characters.
Name	A string containing between 1 and 255 characters.
Number	A floating-point value.

Enumerated values in TypeAttribute



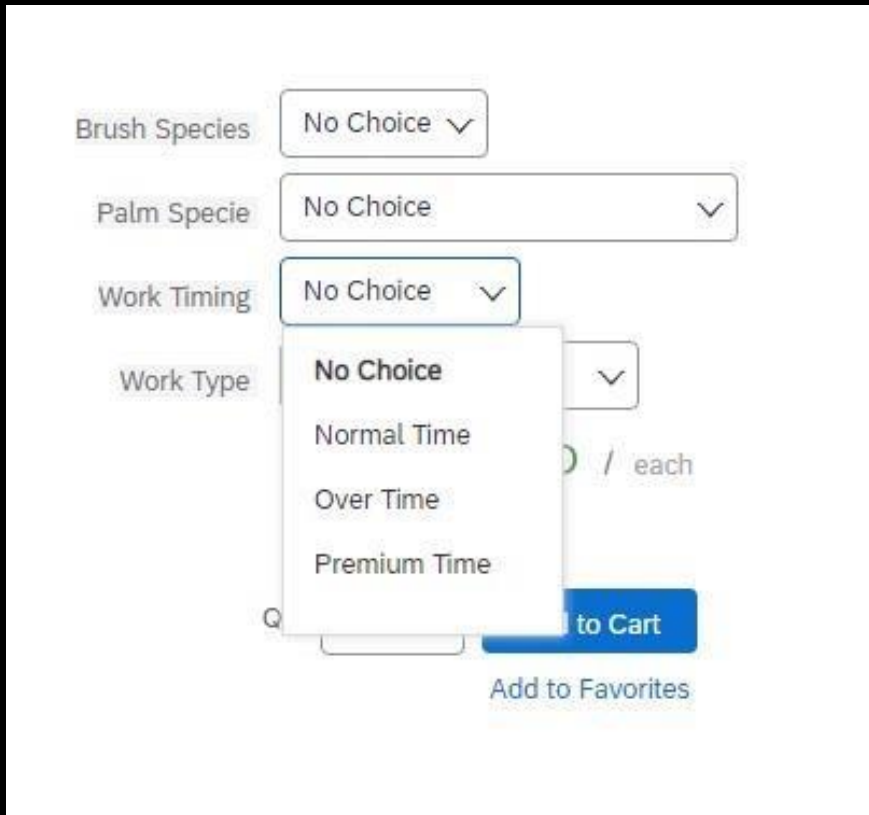
Enumerated values

TypeAttribute elements can include a list of all possible values with EnumerationValue elements. Defining enumerations values validates a field against a specific set of values. For example, working time might be defined as Normal Time, Over Time and Premium Time.

```
<TypeAttribute name="WorkTiming" type="Name" isRefinable="yes" isSearchable="yes" isCollection="yes" isRequiredForOrdering="yes">
  <Name xml:lang="en_US">Work Timing</Name>
  <EnumerationValue>
    <Name xml:lang="en_US">Normal Time</Name>
    <Extrinsic name="CanonicalValue">NormalTime</Extrinsic>
  </EnumerationValue>
  <EnumerationValue>
    <Name xml:lang="en_US">Over Time</Name>
    <Extrinsic name="CanonicalValue">OverTime</Extrinsic>
  </EnumerationValue>
  <EnumerationValue>
    <Name xml:lang="en_US">Premium Time</Name>
    <Extrinsic name="CanonicalValue">PremiumTime</Extrinsic>
  </EnumerationValue>
</TypeAttribute>
```

Partial item enumeration

The EnumerationValue element can be used in conjunction with partial catalog items to display a dropdown list of allowable values when ordering an item.



The screenshot displays a catalog item form with the following elements:

- Brush Species:** A dropdown menu with "No Choice" selected.
- Palm Specie:** A dropdown menu with "No Choice" selected.
- Work Timing:** A dropdown menu with "No Choice" selected.
- Work Type:** A dropdown menu with "No Choice" selected, showing a list of options: "Normal Time", "Over Time", and "Premium Time".
- Quantity:** A text input field with the value "1".
- Price:** A text input field with the value "0.00".
- Unit:** A text input field with the value "each".
- Buttons:** "Add to Cart" (blue) and "Add to Favorites" (light blue).

If a catalog file contains multiple items of the same type, include all possible type attributes and enumeration values in the type definition file and specify the attributes that apply to individual catalog items in the catalog file.

Examples



Parametric Data Example

Browse By Category ▾

All Categories ▾

motor

Show Search Options

es ▾

Price

\$10.00 - \$100.00 USD (1)

\$100.00 - \$1,000.00 ... (516)

\$1,000.00 - \$10,000 ... (709)

\$10,000.00 - ... (114)

See More

Options for type:

HORSEPOWER

100 (74)

125 (84)

150 (80)

200 (79)

250 (82)

See More

RPM

1200 (388)

1800 (559)

3600 (304)

900 (89)

FRAME

145t frame (73)

213t frame (57)

215t frame (57)

254t frame (57)

256t frame (57)

See More

VOLTAGE

230 (371)

460 (673)

461 (9)

575 (287)

☐



MOTOR, ELECTRIC AC, MODIFIED, SEALED BEARINGS, 1

Supplier:

Supplier Part #: 1LE23111AB214AA3Z+L68

Available in: 0 Day(s)

\$260.18 USD / each

Qty: 1

Add to Cart

Add to Favorites ▾

☐



MOTOR, ELECTRIC AC, MODIFIED, SEALED BEARINGS,

Supplier:

Supplier Part #: 1LE23111AB314AA3Z+L68

Available in: 0 Day(s)

\$280.34 USD / each

Qty: 1

Add to Cart

Add to Favorites ▾

☐



MOTOR, ELECTRIC AC, MODIFIED, SEALED BEARINGS, 2

Supplier:

Supplier Part #: 1LE23111AB414AA3Z+L68

Available in: 0 Day(s)

\$301.08 USD / each

Qty: 1

Add to Cart

Add to Favorites ▾

Supplemental Attribute Examples

```
<TypeAttribute name="cus_ArticleID"
  type="Name"
  isSearchable="yes">
  <Name xml:lang="en_US">Target Article ID</Name>
  <Name xml:lang="en_CA">Target Article ID</Name>
  <Name xml:lang="fr_CA">Target Article ID</Name>
</TypeAttribute>
```

Short Name	cus_articleid	Image
	80002257	http://www.idg.com/2772967/img.gif
Excel 97 for Dummies		http://www.idg.com/2772967/img.gif
Blue Ballpoint Pens		http://www.idg.com/2772967/img.gif
Manilla Folders		http://www.idg.com/2772981/img.gif
Standard Stapler		http://www.idg.com/2772981/img.gif

Product Specifications

Price:

\$33.68 USD

Supplier:

Supplier Part #:

80000017

Manufacturer:

Manufacturer Part #:

AP0406

Available in:

4 Day(s)

Description:

MAGNA BAR CROCHET ALLONG  DOUBLE 30cm CON

Target Article ID:

80002257

If the Supplemental Catalog Field is configured to be passed to the supplier in the PO, “cus_articleid” will be displayed as the name of the field in the PO.

Enumerated values example (drop-downs)

isPartial	Parametric Data	Parametric Name
TRUE	{PCName="Enter if replacement only";SerialNo="Enter if replacement only";}	computers

Dell Optiplex 990 SFF (Small Form Factor), Core \$949.30 USD / each

Supplier: ADM ABC Test Supplier

Supplier Pa Available in

Dell Optiple Win 7 (Inclu

Product Description Dell Optiplex 990 SFF (Small Fi

Type No Choice

Computer Name Enter if replacement only

Serial Number Enter if replacement only

Add

Dell Optiplex 990 SFF (Small Form Factor), Core \$949.30 USD / each

Supplier: ADM ABC Test Supplier

Supplier Pa Available in

Dell Optiple Win 7 (Inclu

Product Description Dell Optiplex 990 SFF (Small Fi

Type No Choice

Computer Name No Choice

Serial Number Additional/New

Replacement

Add

Thank you.