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Part Model SupplyChain Guidelines for Electronic-Device Packages – XML Requirements

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DESCRIPTIVE MODEL SUPPLYCHAIN GUIDELINE FOR ELECTRONIC-DEVICE PACKAGES - XML REQUIREMENTS

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PART MODEL SUPPLYCHAIN GUIDELINE FOR ELECTRONIC-DEVICE PACKAGES - XML REQUIREMENTS

(From JEDEC Board Ballots JCB-17-48, JCB-24-29, JCB-24-50 and JCB-24-53, formulated under the cognizance of the JC-11 Committee on Mechanical Standardization.)

1 Scope

This standard establishes the requirements for exchanging part data between part manufacturers and their customers for electrical and electronic products. This standard applies to all forms of electronic parts. It forms part of the Part Model XML Schema, which covers the parental structure for the electrical, physical, supply chain, thermal, design kits, generated ECAD models, assembly process classification data along with materials and substances that may be present in the supplied product or sub-products. This Guideline specifically focuses on the SupplyChain sub-section of the Part Model.

All releases of the [SupplyChain](#) sub-schema must be under the umbrella of the Part model Schema to ensure that the Part model schema is referencing the correct version of the SupplyChain sub-schema. In addition, this will enable the [SupplyChain](#) sub-schema to connect to the Manufacturer Part Number and the Manufacturer of the Part.

1.1 Purpose

This standard is intended to benefit part manufacturers, distributors of their parts and their customers by providing consistency and efficiency to the transfer of part data from part manufacturer to customers. This standard specifically covers data applicable to the [SupplyChain](#) modelling of the device.

2 Applicable Documents

The following documents form a part of this standard to the extent specified herein. The revision of the document in effect at the time of solicitation shall take precedence.

2.1 JEDEC (www.jedec.org)

JEP30, *Part Model Guidelines for Electronic-Device Packages – XML Requirements*

JEP30-A100, *Part Model Assembly Process Classification Guidelines for Electronic-Device Packages – XML Requirements*

JEP30-E100, *Part Model Electrical Guidelines for Electronic-Device Packages – XML Requirements*

JEP30-P100, *Part Model Package Guidelines for Electronic-Device Packages – XML Requirements*

JEP30-T100, *Part Model Thermal Guidelines for Electronic-Device Packages – XML Requirements*

2.1.1 JEDEC Part Model Schema and Sub-Schemas

JEP30-10, *Part Model Schema*

JEP30-A101, Part Model Assembly Process Classification Schema

2.1.1 JEDEC Part Model - Schema and Sub-Schemas (cont'd)

JEP30-E101, Part Model Electrical Schema

JEP30-P101, Part Model Package Schema

JEP30-S101, Part Model Supply Chain Schema

JEP30-T101, Part Model Thermal Schema

JEP30-D10, *Part Model Schema Types Dictionary* (Required to support the Part Model Schema and each of its sectional sub-schemas.)

2.2 IEC

IEC-62474, *Material Declaration for Products of and for the Electrotechnical Industry*

2.3 JEDEC/EIA/IPC

J-Std-046, *Customer Notification Standard for Product/Process Changes by Electronic Product Suppliers*

J-Std-048, *Notification Standard for Product Discontinuance*

3 Requirements

The following terms and definitions are applicable to this XML Schema.

3.1 Terms and Definitions

All definitions and terms associated with the SupplyChain Data are defined in the JESD51 series of documents, as listed in the applicable documents section. The SupplyChain details of the part are defined in the [SupplyChainSection](#) of the XML Schema.

All common Terms and Definitions that are used by more than one sectional sub-schema, such as any of the Electrical, Package, Environmental, Assembly Process Classification, are defined in the “Part Model Schema Types Library”.

All other definitions and terms necessary to define the schema, are defined by this document.

Part Model: A Part Model is a data representation described in an XML file that conforms to the rules and structure of the Part Model XML Schema.

NOTE 1 Companies who use the Part Model XML Files and claim compliance to JEDEC, must ensure that their Part Model XML file conforms to the specific released version of the Part Model XML Schema released by JEDEC.

NOTE 2 Section 4 will define the outline of the structure of the SupplyChain XML Schema. Specific components of the XML Schema and their hierarchy are specifically controlled by the JC-15 Standards Committee who retain the expertise for these structures.

NOTE 3 The [SupplyChainSection](#) of the schema forms part of the Part Model XML Schema and is not intended to act as a standalone schema. In addition, there is a “Part Model Schema Types Library” XML Schema, which is a common set of xml structures shared across the Part Model XML Schema and all of its sub-section schemas.

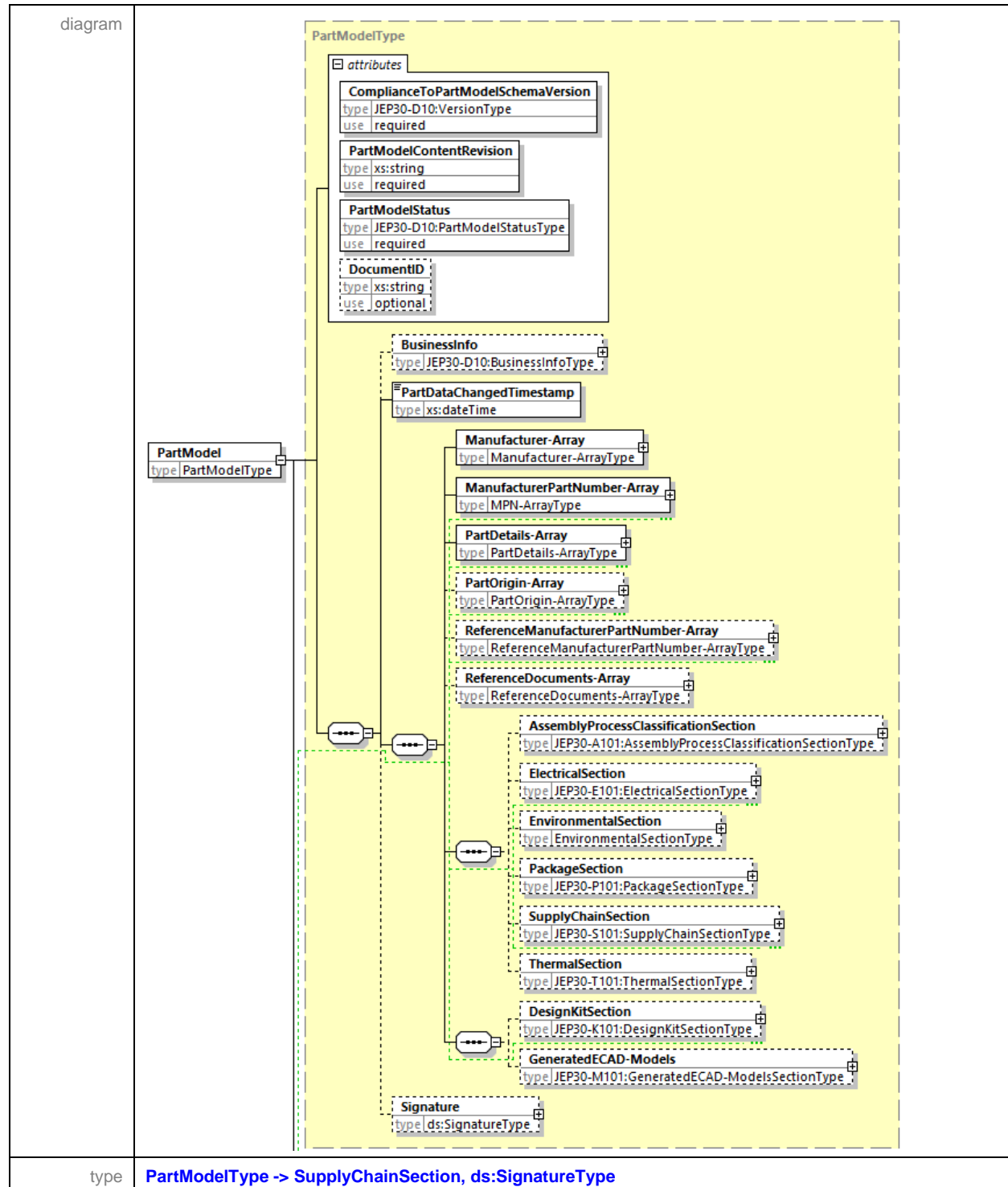
3.2 XML Schema Key Terms and Definitions

Reference the JEP30 publication for details of the "XML Schema Key Terms and Definitions".

4 Part Model Schema Definition

The following section describes the XML Schema structure.

4.1 Part Model - SupplyChain Section



4.1 Part Model - SupplyChain Section (cont'd)

The [PartModelType](#) belongs to the “Part Model XML Schema”. The [SupplyChainSection](#) belongs to the “Part Model SupplyChain XML Schema”. The primary purpose of the Part Model Schema is to provide the structure for identifying unique parts (Manufacturer and MPN), and the structure to include the sub schemas which define the part details, as outline in the JEP30 - Part Model Guidelines for Electronic-Device Packages – XML Requirements.

This document covers the [SupplyChainSection](#), which is referenced from its parent’s structure, the [PartModel](#). The contents under the [SupplyChainSection](#) are tied to the Manufacturer’s name and Manufacturer’s part number.

The [ComplianceToPartModelSchemaVersion](#) indicates the version of the Schema to which the XML file is to be validated against. All new releases to this document or XML Schema is governed by the rules outlined in JEP30, and must be released in sync with the Part Model.

“Each time that a Sub-schema gets updated, then the part model version also gets updated in order to release that Sub-schema under the umbrella of the Part model. This is because the Part Model must now reference the new version of Sub-schema, since all subschemas have their own version number. The parent schema includes them by referring to a precise version, so a version bump in the subschema requires a version bump in the parent only at the time of release of the Parent.”

The [PartModelContentRevision](#) indicates the revision of the data for the Part that is submitted in the XML file. This enables the Component Manufacturer to provide a new XML file for a Part each time they wish to upgrade a new set of data for a part, in any of the sub-sections such as this [SupplyChainSection](#).

4.2 Manufacturer Part Number-Array

path	PartModel/ManufacturerPartNumber-Array.	
diagram	<p>The diagram illustrates the XML Schema Definition (XSD) for the ManufacturerPartNumber-Array. It is an array of ManufacturerPartNumbers (type MPN-ArrayType). Each ManufacturerPartNumbers is a complex type containing the following elements:</p> <ul style="list-style-type: none"> ID (type xs:string) PartNumberSeries (type PartNumberType) OrderablePartNumber (type OrderablePartNumberType) FuturePart (type FuturePartType) StandardsIdentifier (type StandardsIdentifierType) ProcessTechnologyIdentifier (type ProcessTechnologyIdentifierType) ManufacturerID (type xs:string) ManufacturerSignatureDigest (type JEP30-D10:SignatureDigestLinkType) ManufacturerPartNumbersIdentitySignature (type ds:SignatureType) <p>Constraints are indicated by dashed lines and cardinalities (e.g., 1..∞ for the array, 0..∞ for optional elements).</p>	
type	MPN-ArrayType, ManufacturerPartNumbersType, PartNumberType, OrderablePartNumberType, FuturePartType, StandardsIdentifierType, ProcessTechnologyIdentifierType, JEP30-D10:SignatureDigestLinkType, ds:SignatureType.	

The [ManufacturerPartNumber-Array/ManufacturerPartNumbers](#) provides the definition of the part number or a specific Standard, so that it can be connected to the technical specification details in the [SupplyChainSection](#) via the [PartDetails-Array](#) section.

4.3 Linking the Manufacturing Part Number to a specific SupplyChain Data set

The linking of the Parts to its technical data is done via the [PartDetails-Array](#) section as outline in the JEP30 - Part Model Guidelines for Electronic-Device Packages – XML Requirements. This consists of two sections called [PartsSelection-Array](#) and [Association-Array](#) which defines the relationship between identifying the specific set of parts and how they are associated with the supply chain content. Reference the JEP30 parent document for more details on this association.

path	PartModel/PartDetails-Array/PartDetails/Association-Array/Association/SupplyChain-Array.
diagram at the Association level	<p>The diagram illustrates the structure of the SupplyChain-Array at the Association level. It is a dashed box containing a SupplyChain-Array element (type SupplyChainAssociation-ArrayType) which is connected to a central connector. This connector links to a larger dashed box labeled SupplyChainAssociation-ArrayType. Inside this box are five elements, each with a type and a cardinality of 0..∞: ManufacturerSupplyChain (type ManufacturerSupplyChainAssociationType), DistributorSupplyChain (type DistributorSupplyChainAssociationType), ProductChangeNotice (type ProductChangeNoticeAssociationType), ProductDiscontinuance (type ProductDiscontinuanceAssociationType), and AlternativePart (type AlternativePartAssociationType).</p>
type	SupplyChainAssociation-ArrayType , ManufacturerSupplyChainAssociationType , DistributorSupplyChainAssociationType , ProductChangeNoticeAssociationType , ProductDiscontinuanceAssociationType , AlternativePartAssociationType .
path	PartModel/SupplyChainSection
diagram at the Supply Chain Section level	<p>The diagram illustrates the structure of the SupplyChainSection at the Supply Chain Section level. It is a dashed box containing a SupplyChainSection element (type JEP30-S101:SupplyChainSectionType) which is connected to a central connector. This connector links to a larger dashed box labeled JEP30-S101:SupplyChainSectionType. Inside this box is a SupplyChain-Array element (type SupplyChain-ArrayType), which is further connected to another central connector. This second connector links to a dashed box labeled SupplyChain-ArrayType, which contains five elements, each with a type and a cardinality of 0..∞: ManufacturerSupplyChain (type ManufacturerSupplyChainType), DistributorSupplyChain (type DistributorSupplyChainType), ProductChangeNotice (type ProductChangeNoticeType), ProductDiscontinuance (type ProductDiscontinuanceType), and AlternativePart-Array (type AlternativePart-ArrayType). A constraints box is also present at the bottom of the JEP30-S101:SupplyChainSectionType box.</p>
type	SupplyChainSectionType , SupplyChain-ArrayType , ManufacturerSupplyChainType , DistributorSupplyChainType , ProductChangeNoticeType , ProductDiscontinuanceType , AlternativePart-ArrayType

4.3.1 Linking the Manufacturing Part Number to Manufacturer Supply Chain

path	PartModel/PartDetails-Array/PartDetails/Association-Array/Association/SupplyChain-Array/ManufacturerSupplyChain	
diagram at the Manufacturer Supply Chain Association level		
type	ManufacturerSupplyChainAssociationType , JEP30-D10:SignatureDigestLinkType .	
path	PartModel/SupplyChainSection/SupplyChain-Array/ManufacturerSupplyChain	
diagram at the Manufacturer Supply Chain level.		
type	ManufacturerSupplyChainType , ManufacturerPartStatusType , ManufacturerPartClassificationType , PackingType , ds:SignatureType	

The [ManufacturerSupplyChainID](#) references the [ManufacturerSupplyChain/ID](#) under the [SupplyChainSection/SupplyChain-Array](#). This is enforced by the key named as [ManufacturerSupplyChainKey](#) that is assigned to the [ManufacturerSupplyChain/ID](#) element, which is referenced by the [ManufacturerSupplyChainID](#) which has a KeyRef that refers to the [JEP30-S101:ManufacturerSupplyChainKey](#).

4.3.2 Linking the Manufacturing Part Number to Distributor Supply Chain

path	PartModel/PartDetails-Array/PartDetails/Association-Array/Association/SupplyChain-Array/DistributorSupplyChain
diagram at the Distributor Supply Chain Association level	
type	DistributorSupplyChainAssociationType , JEP30-D10:SignatureDigestLinkType .
path	PartModel/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain
diagram at the Distributor Supply Chain level.	
type	DistributorSupplyChainType , Distributor-ArrayType , ds:SignatureType

The [DistributorSupplyChainID](#) references the [DistributorSupplyChain/ID](#) under the [SupplyChainSection/SupplyChain-Array](#). This is enforced by the key named as [DistributorSupplyChainKey](#) that is assigned to the [DistributorSupplyChain/ID](#) element, which is referenced by the [DistributorSupplyChainID](#) which has a KeyRef that refers to the [JEP30-S101:DistributorSupplyChainKey](#).

4.3.3 Linking the Manufacturing Part Number to Product Change Notice

path	PartModel/PartDetails-Array/PartDetails/Association-Array/Association/SupplyChain-Array/ProductChangeNotice
diagram at the Product Change Notice Association level	<p>The diagram shows a dashed box labeled ProductChangeNotice with the type <code>ProductChangeNoticeAssociationType</code>. This is connected via a multiplicity of <code>0..∞</code> to a solid box labeled ProductChangeNoticeAssociationType. Inside the association type, there are two elements: ProductChangeNoticeID (type <code>xs:string</code>) and ProductChangeNoticeSignatureDigest (type <code>JEP30-D10:SignatureDigestLinkType</code>). A red arrow originates from the ProductChangeNoticeID element and points to the ID element in the ProductChangeNoticeType diagram below.</p>
type	ProductChangeNoticeAssociationType , JEP30-D10:SignatureDigestLinkType .
path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice
diagram at the Product Change Notice level.	<p>The diagram shows a dashed box labeled ProductChangeNotice with the type <code>ProductChangeNoticeType</code>. This is connected via a multiplicity of <code>0..∞</code> to a solid box labeled ProductChangeNoticeType. Inside this type, there are several elements: ID (type <code>xs:string</code>), PCN-DocumentID (type <code>xs:string</code>), PCN-TrackingNumber (type <code>xs:string</code>), PCN-Revision (type <code>xs:string</code>), ReasonForPCN-Revision (type <code>xs:string</code>), ProductIdentification (type <code>xs:string</code>), AffectedPartNumbersDocumentID (type <code>xs:string</code>), AdditionalChangeInfoDocumentID (type <code>xs:string</code>), Comments (type <code>xs:string</code>), UnchangedProductVersion (type <code>xs:string</code>), ChangedProductVersion (type <code>xs:string</code>), LastManufacturingDate-of-UnchangedProductVersion (type <code>xs:dateTime</code>), and LastShipmentDate-of-UnchangedProductVersion (type <code>xs:dateTime</code>). A red arrow points from the ProductChangeNoticeID element in the association type diagram above to the ID element in this diagram.</p>
type	ProductChangeNoticeType , ...

The [ProductChangeNoticeID](#) references the [ProductChangeNotice/ID](#) under the [SupplyChainSection/SupplyChain-Array](#). This is enforced by the key named as [ProductChangeNoticeKey](#) that is assigned to the [ProductChangeNotice/ID](#) element, which is referenced by the [ProductChangeNoticeID](#) which has a KeyRef that refers to the [JEP30-S101:ProductChangeNoticeKey](#).

4.3.4 Linking the Manufacturing Part Number to Product Discontinuance

path	PartModel/PartDetails-Array/PartDetails/Association-Array/Association/SupplyChain-Array/ProductDiscontinuance
diagram at the Product Discontinuance Association level	
type	ProductDiscontinuanceAssociationType , JEP30-D10:SignatureDigestLinkType .
path	PartModel/SupplyChainSection/SupplyChain-Array/ProductDiscontinuance
diagram at the Product Discontinuance level.	
type	ProductDiscontinuanceType , JEP30-D10:OptionalResponseType

The [ProductDiscontinuanceID](#) references the [ProductDiscontinuance/ID](#) under the [SupplyChainSection/SupplyChain-Array](#). This is enforced by the key named as [ProductDiscontinuanceKey](#) that is assigned to the [ProductDiscontinuance/ID](#) element, which is referenced by the [ProductDiscontinuanceID](#) which has a KeyRef that refers to the [JEP30-S101:ProductDiscontinuanceKey](#).

4.3.5 Linking the Manufacturing Part Number to Alternative Part

path	PartModel/PartDetails-Array/PartDetails/Association-Array/Association/SupplyChain-Array/AlternativePart	
diagram at the Alternative Part Association level		
type	AlternativePartAssociationType , JEP30-D10:SignatureDigestLinkType .	
path	PartModel/SupplyChainSection/SupplyChain-Array/AlternativePart-Array	
diagram at the Alternative Part Array level.		
type	AlternativePart-ArrayType , AlternativePartType , JEP30-D10:PartsSelectionType , AlternativePartNumberSeriesType , JEP30-D10:OptionalResponseType	

The [AlternativePartID](#) references the [AlternativePart/ID](#) under the [SupplyChainSection/SupplyChain-Array](#). This is enforced by the key named as [AlternativePartKey](#) that is assigned to the [AlternativePart/ID](#) element, which is referenced by the [AlternativePartID](#) which has a KeyRef that refers to the [JEP30-E101: AlternativePartKey](#).

4.4 SupplyChain Family-Array

path	PartModel/SupplyChainSection.
diagram	<p>The diagram illustrates the structure of the <code>SupplyChainSectionType</code>. It consists of a <code>SupplyChainSection</code> (type <code>SupplyChainSectionType</code>) which contains a <code>SupplyChain-Array</code> (type <code>SupplyChain-ArrayType</code>). The <code>SupplyChain-Array</code> contains five elements: <code>ManufacturerSupplyChain</code> (type <code>ManufacturerSupplyChainType</code>), <code>DistributorSupplyChain</code> (type <code>DistributorSupplyChainType</code>), <code>ProductChangeNotice</code> (type <code>ProductChangeNoticeType</code>), <code>ProductDiscontinuance</code> (type <code>ProductDiscontinuanceType</code>), and <code>AlternativePart-Array</code> (type <code>AlternativePart-ArrayType</code>). Each element has a multiplicity of 1 and a cardinality of 0..∞. A <code>constraints</code> box is also shown.</p>
type	<code>SupplyChainSectionType</code> , <code>SupplyChain-ArrayType</code> , <code>ManufacturerSupplyChainType</code> , <code>DistributorSupplyChainType</code> , <code>ProductChangeNoticeType</code> , <code>ProductDiscontinuanceType</code> , <code>AlternativePart-ArrayType</code> .

The `SupplyChainSection` consists of 5 sections as shown above in the diagram. Each of these sections are described in further detail in the sub-sections below.

4.4.1 Manufacturer Supply Chain

path	PartModelType/SupplyChainSection/SupplyChain-Array/ManufacturerSupplyChain.	
diagram		
type	ManufacturerSupplyChainType, ManufacturerPartStatusType, ManufacturerPartClassificationType, PackingType, ds:SignatureType	

The association from the [PartsSelection-Array](#) and [Association-Array](#) to the [ManufacturerSupplyChain/ID](#) can represent a single part or a family of parts. This group of parts can now inherit the manufacturer supply chain data as shown above in the diagram. When a single part is represented by the [PartsSelectionID](#), then the list of [ManufacturerAlternativePartNumber](#) becomes a direct replacement for that part. This is typically a low-risk alternative since the manufacturer is the same manufacturer of both the original and replacement parts, and the source of this alternative part information is directly from the manufacturer.

When multiple parts are represented by the [PartsSelectionID](#), then the [ManufacturerAlternativePartNumber](#) becomes a statement that can inform the customer with sufficient information regarding how to identify which original parts are mapped to their alternative parts.

4.4.1.1 Manufacturer Part Status

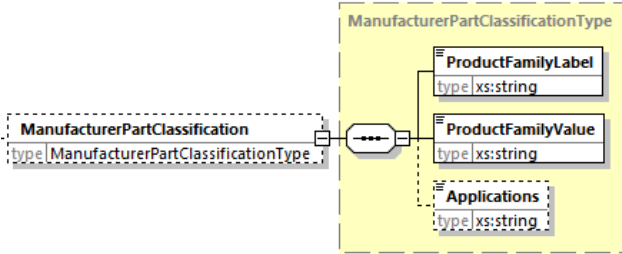
path	PartModelType/SupplyChainSection/SupplyChain-Array/ManufacturerSupplyChain/ManufacturerPartStatus.
diagram	<p>The diagram illustrates the structure of the ManufacturerPartStatusType. It is a dashed yellow box containing several fields, each with a label and a type. The fields are: Introduction (type: EmptyType), Active (type: EmptyType), ContactManufacturer (type: EmptyType), NotRecommended-for-NewDesigns (type: EmptyType), LastTimeBuy (type: xs:date), Obsolete (type: EmptyType), Transferred (type: EmptyType), and Other (type: xs:string). To the left of this box, there is a box labeled ManufacturerPartStatus (type: ManufacturerPartStatusType) connected to the dashed box by a line with a small circle at the end.</p>
type	ManufacturerPartStatusType , EmptyType .

Manufacturer Part status is one of the most critical elements of a part supply status prior to selecting that part as a component of any product design. Too often this is overlooked by the designer leading to supply acquisitions problems when the product is ready for manufacturing. Obsolescence is a major reason why product miss market launch dates, and many times can significantly delay release to market as new substitutions are not directly compatible with the obsolete part, forcing a new cycle in the design phase.

The most desired status is [Active](#) since the market supply for that component is in its matured state. The earlier [Introduction](#) state may mean smaller volumes and higher unit price. [NotRecommended-for-NewDesigns](#) (sometimes referred to as NRND) indicate that this part or parts will soon be entering a phase-out approach. Manufacturers who issue [LastTimeBuy](#) status on their parts are informing the market that they are planning to do a last round of manufacturing and are requesting that their customers provide sufficient purchase of the part to satisfy their product life cycle requirements. [Transferred](#) is a status when the original manufacturer is transferring or licensing the product to another manufacturer to manufacture. This transfer status is becoming more common as manufacturers become capacity constraint and need to dedicate existing in-house capabilities to higher priority parts.

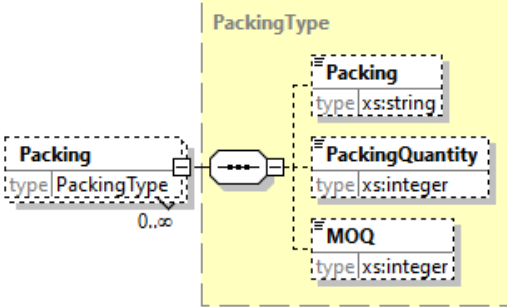
For other status not covered in the above list in the diagram, the [Other](#) status can be used where a new manufacturer status term can be specified.

4.4.1.2 Manufacturer Part Classification

path	PartModelType/SupplyChainSection/SupplyChain-Array/ManufacturerSupplyChain/ManufacturerPartClassification.
diagram	 <p>The diagram shows a dashed box labeled 'ManufacturerPartClassification' with 'type ManufacturerPartClassificationType'. This box is connected to a larger dashed box labeled 'ManufacturerPartClassificationType'. Inside this larger box are three sub-elements: 'ProductFamilyLabel' (type xs:string), 'ProductFamilyValue' (type xs:string), and 'Applications' (type xs:string).</p>
type	ManufacturerPartClassificationType.

A manufacturer can assign their own internal [ProductFamilyLabel](#) with a specific [ProductFamilyValue](#) to a part or group of parts as defined by the [PartNumberSeriesID](#) or the [OrderablePartNumberID](#). The manufacturer can also specify the end use [Applications](#) market, for which this part was intended to support.

4.4.1.3 Packing

path	<ol style="list-style-type: none"> PartModelType/SupplyChainSection/SupplyChain-Array/ManufacturerSupplyChain/Packing. PartModelType/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain/Distributor-Array/DistributorPartNumber-Array/DistributorPartNumber/Packing
diagram	 <p>The diagram shows a dashed box labeled 'Packing' with 'type PackingType' and a cardinality of '0..∞'. This box is connected to a larger dashed box labeled 'PackingType'. Inside this larger box are three sub-elements: 'Packing' (type xs:string), 'PackingQuantity' (type xs:integer), and 'MOQ' (type xs:integer).</p>
type	PackingType.

Packing is the material used to pack and protect goods in a container for transport to their customer. While this structure is available in under the [ManufacturerSupplyChain](#), it also exists in under the [DistributorSupplyChain](#), however the data in each can be different as distributors will typically re-pack the material to suit the volumes of their small and medium size customers.

In many situations, the Manufacturers will add a character into the existing manufacturer's part number string to identify the combination of the part and the packing – e.g., Part A in a 7" plastic reel (i.e., Part # A1) versus the same Part A in a 10" paper reel (i.e., Part # A2). When supply is short for these parts, companies would like to automatically identify these equivalent parts in all other respects, other than the packing material in which it was shipped in. That process is not so easy today when the character to denote the packing is not separated out from the characters that denote the technology of the part. The structure contained within this PartModel enables this to be automated by the identification of the specific characters within the full manufacturers part numbers that are used to define the packing material.

4.4.2 Distributor Supply Chain

path	PartModelType/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain.
diagram	
type	DistributorSupplyChainType, Distributor-ArrayType, DistributorType, DistributorPartNumber-ArrayType, ds:SignatureType

A distributor is an entity that buys products from a manufacturer and sells them for a profit to other businesses. Most distributors also provide a range of services such as technical support, or service such as re-packing, component preparation for assembly, programming, or even recommend reference designs in which their parts are included. Distributors are essential in helping reach markets manufacturers could not otherwise target. A distributor is a key component of the supply chain model used by Manufacturers because it allows a company to specialize or focus operations on its primary strengths while leveraging distributors to market their products.

4.4.2.1 Distributor

path	PartModelType/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain/Distributor-Array/Distributor.
diagram	
type	DistributorType, CompanyType, ContactType.

The identity of a *Distributor* follows the same concepts as the identity of the manufacturer as defined in the JEP30 Part Model parent structure.

4.4.2.2 Distributor Part Number - Array

path	PartModelType/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain/Distributor-Array/Distributor PartNumber-Array.
diagram	<p>The diagram illustrates the XSD structure for the DistributorPartNumber-Array. It is composed of a sequence of DistributorPartNumber elements. Each DistributorPartNumber element contains the following fields:</p> <ul style="list-style-type: none"> ID (type: xs:string) DistributorID (type: xs:string) DistributorPartNumber (type: xs:string) DistributorPartDescription (type: xs:string, optional) DistributorPartStatus (type: SupplierPartStatusType, optional) DistributorPartClassification (type: SupplierPartClassificationType, optional) Packing (type: PackingType, optional, 0..∞) AlternativePartID (type: xs:string, optional) ProductChangeNoticeID (type: xs:string, optional) ProductDiscontinuanceID (type: xs:string, optional)
type	DistributorPartNumber-ArrayType , DistributorPartNumberType , DistributorPartClassificationType , PackingType .

Most distributors will acquire their material parts from their respective manufacturers in large volumes, where they will re-pack into smaller quantity lots. While Manufacturer Part Numbers are a static Identifier of a product which is universal to all distributors, wholesalers, resellers, Distributors introduce SKU's (Stock Kitting Units) for their own in-house identification as well as used for Inventory and for sales. Each distributor has their own unique SKU's that they assign to a product, thus developing their own catalog of items. These SKUs are presented to the market under various terms, such as

1. <Distributor name> Part Number
2. <Supplier Part Number>
3. Stock Kitting Number

As with Manufacturing Part Numbers, each of the above distributor identifiers are only unique in the context of that distributor, as part numbers in themselves can and are copied by competitors to identify their own parts. Consequently, it is the combination of the Distributor and the Distributor Part Number that makes the unique identity of a part in the distribution chain. Mapping from one distributor to another is however only done through the static identifier of the part as identified by the Manufacturer and the Manufacturer PartNumber pair.

The distributor can provide their own description of the part via the [DistributorPartDescription](#) to help them market that part more competitively.

4.4.2.2.1 Distributor Part Status

path	PartModelType/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain/Supplier-Array/SupplierPartNumber-Array/SupplierPartNumber/SupplierPartStatus.
diagram	<p>The diagram illustrates the SupplierPartStatusType structure. It is a complex type containing the following elements:</p> <ul style="list-style-type: none"> Introduction: type JEP30-D10:EmptyType Active: type JEP30-D10:EmptyType ContactDistributor: type JEP30-D10:EmptyType LastTimeBuy: type JEP30-D10:EmptyType Discontinued-at-Distributor: type JEP30-D10:EmptyType Other: type xs:string <p>A dashed box labeled DistributorPartStatus (type SupplierPartStatusType) is connected to the main structure via a choice symbol.</p>
type	DistributorPartStatusType , JEP30-D10:EmptyType.

Distributor Part status is different to the Manufacturer part status since distributors are not the manufacturers of the part. While some of the status have the same wording, if the status is being driven by the manufacturer of the part, then that status should be captured in the [ManufacturerSupplyChain/ManufacturerPartStatus](#) as opposed to the [DistributorSupplyChain/Distributor-Array/DistributorPartNumber-Array/DistributorPartNumber/DistributorPartStatus](#).

Under the [DistributorPartStatus](#) branch, the status reflects that from the distributor's perspective. The [Introduction](#) state may mean the distributor is introducing that part into their inventory of SKUs for the purpose of supply to their market. The [Active](#) status indicates that the distributor has a mature market supply for that component. When the distributor assigns a [LastTimeBuy](#) status on their SKU, they are informing the market that they are planning to discontinue their supply of that SKU to the market and are requesting that their customers provide sufficient purchase of the part to satisfy their product life cycle requirements. The [Discontinued-at-Distributor](#) is a status when the distributor has ceased to further market that part.

For other status not covered in the above list in the diagram, the [Other](#) status can be used where a new manufacturer status term can be specified.

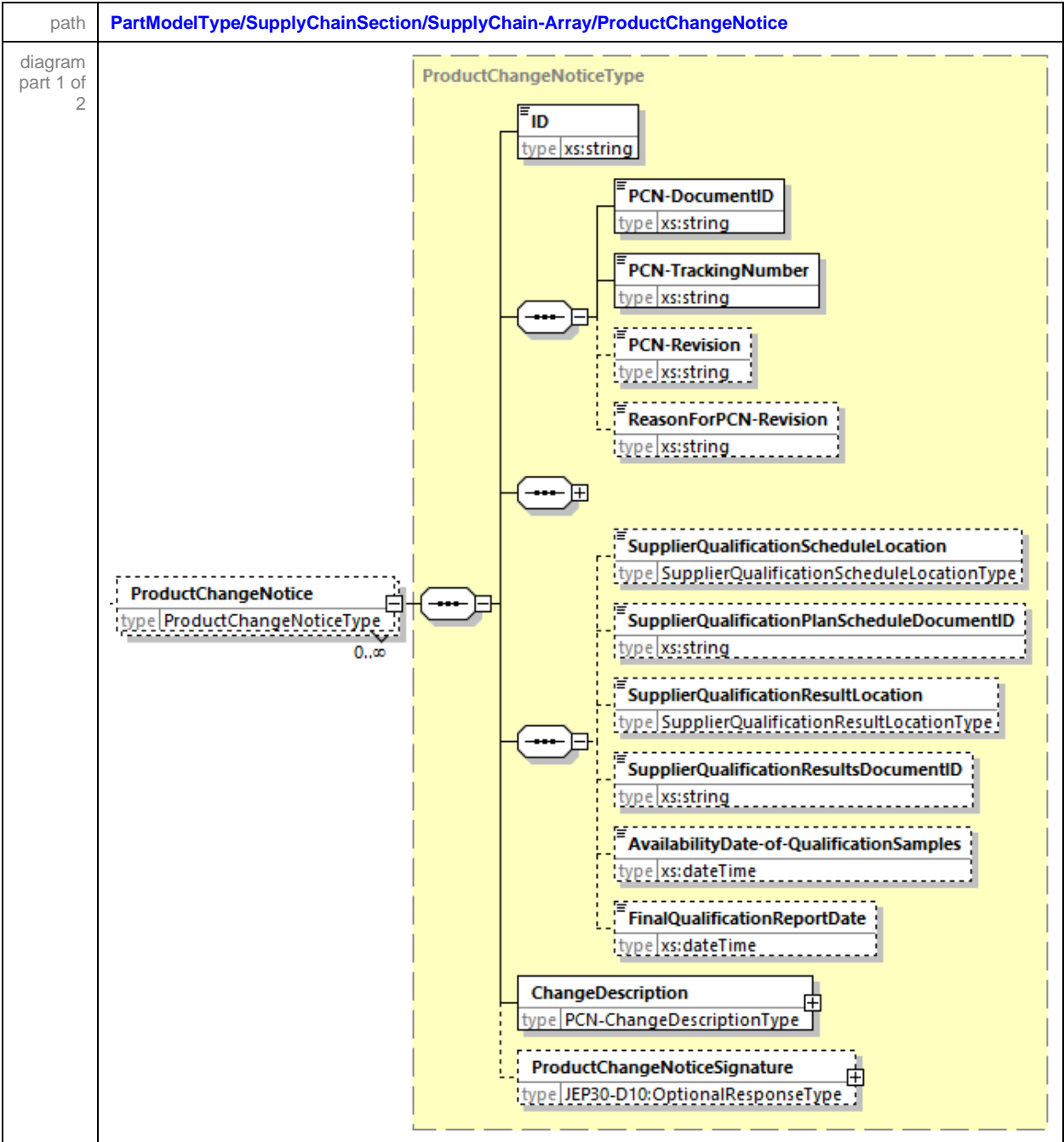
[DistributorPartStatus](#) is specific to the [Distributor](#) and should not be assumed to be the same status across all distributors.

4.4.2.2.2 Distributor Part Classification

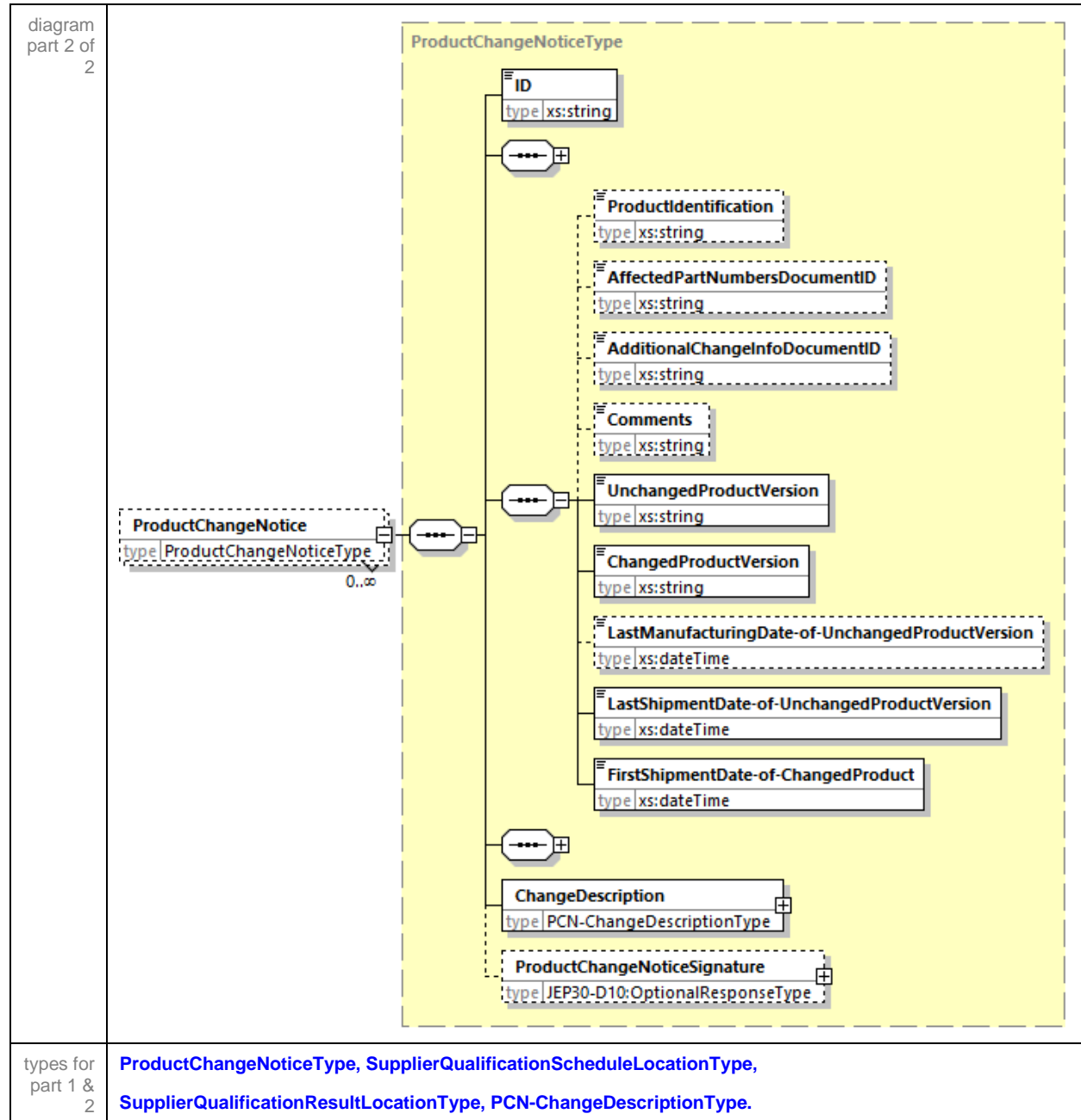
path	PartModelType/SupplyChainSection/SupplyChain-Array/DistributorSupplyChain/Supplier-Array/SupplierPartNumber-Array/SupplierPartNumber/SupplierPartClassification
diagram	
type	DistributorPartClassificationType.

A distributor acquires parts from many different manufacturers. Each manufacturer tends to have their own taxonomy for the parts that they manufacture. Across manufacturers, different manufacturers taxonomies for the same competitive parts requires that Distributors map these parts to a [DistributorPartClassification](#). This is necessary because customers require simple classification in which they can search for parts from multiple manufacturers. The more complex this search mechanism the more inefficient for the user to find the part, which can impact the business of the distributor. While the JEP30-E100 Electrical section of the Part Model has a JEDEC [PartClassification](#) structure, to which Distributors are encouraged to adopt, each [Distributor](#) can assign their own internal [ProductFamilyLabel](#) with a specific [ProductFamilyValue](#) applied to a part or group of parts as defined by the [PartNumberSeriesID](#) or the [OrderablePartNumberID](#).

4.4.3 Product Change Notice



4.4.3 Product Change Notice (cont'd)



The structure defined here maps to the requirements as defined in the J-Std-046 Customer Notification Standard for Product/Process Changes by Electronic Product Suppliers standard. Each PCN that is issued should have its own tracking number which should be recorded in the [PCN-TrackingNumber](#) field. Typically, there is just one publication of a PCN document therefore the revision of the PCN document is optional. However, if a PCN document is revised, then it is advisable that the revision of the PCN document is recorded in the [PCN-Revision](#) element along with the reason for the change in the revision of the PCN document is recorded in the [ReasonForPCN-Revision](#) element.

4.4.3 Product Change Notice (cont'd)

Some suppliers will provide additional information to assist the customers to identify the affected parts, in addition to specifying the parts via the [PartsSelection-Array](#). This can be supported via the [ProductIdentification](#) element, or by reference to a document in the [ReferenceDocuments-Array](#) via the [AffectedPartNumbersDocumentID](#). Suppliers may even provide additional change information in other documents via the [AdditionalChangeInfoDocumentID](#) element.

A PCN can be an indication that the product or process itself has changed. It is therefore mandatory that both the [UnchangedProductVersion](#) and the [ChangedProductVersion](#) are specified. Notification timing of the [LastManufacturingDate-of-UnchangedProductVersion](#) is optional but notification timing of the [LastShipmentDate-of-UnchangedProductVersion](#) is mandatory. In addition, the date that the changed product could first be shipped to customers is captured via the [FirstShipmentDate-of-ChangedProduct](#) field.

Some customers have agreements with their suppliers in which part changes that are impacted by an PCN notification go through a qualification process. In these situations, the supplier may provide qualification details via a set of documents, that can be referenced in the [ReferenceDocuments-Array](#) via the [SupplierQualificationPlanScheduleDocumentID](#), [SupplierQualificationResultsDocumentID](#). Alternatively, the supplier may provide this information within the PCN document. The location of the qualification plan schedule or the qualification results can be recorded in the [SupplierQualificationScheduleLocation](#) and [SupplierQualificationResultLocation](#) respectively by separating the enumerated value to either

1. Separate Attachment, or
2. In PCN Document

Additional notification timing requirements when applicable are [AvailabilityDate-of-QualificationSamples](#) and [FinalQualificationReportDate](#).

4.4.3.1 Change Description

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription
diagram	<p>The diagram illustrates the structure of the PCN-ChangeDescriptionType. It is a complex type containing several elements:</p> <ul style="list-style-type: none"> Description: type xs:string Method-of-IdentifyingChangedProduct: type xs:string ReasonForChange: type xs:string AnticipatedImpact: type AnticipatedImpactType (indicated with a '+' sign for optional) ChangeType: type ChangeType (indicated with a '+' sign for optional) MaterialDeclarationChange: type MaterialDeclarationChangeType (indicated with a '+' sign for optional) ManufacturingCarbonFootprintChange: type xs:boolean (indicated with a '+' sign for optional) <p>The ChangeDescription element is shown with a type of PCN-ChangeDescriptionType.</p>
type	PCN-ChangeDescriptionType, AnticipatedImpactType, ChangeType, MaterialDeclarationChangeType.

A change description should be accompanied with the Description of the change, the *Method-of-IdentifyingChangedProduct* and the *ReasonForChange*.

To conform to regulatory requirements for various markets, any change to the product that impacts the carbon footprint for the product, should be specified in the field *ManufacturingCarbonFootprintChange*. If impacted, this flag will trigger product customers to update their product carbon footprint based on changes to the product components carbon footprint.

4.4.3.1.1 Anticipated Impact

path	PartModelType/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType.
diagram	
type	AnticipatedImpactType , JEP30-D10:EmptyType .

The following definitions are defined in the J-Std-046 standard and take precedence over the definitions below.

Form: The visual appearance including shape, color, marking, and surface finish of the product, as specified by the supplier and/or customer.

Fit: The external dimensions and associated tolerances of the product, as specified by the supplier and/or customer.

Function: The electrical, mechanical, thermal, and performance characteristics of the product, as specified by the supplier and/or customer. This includes change of critical material/component for the device.

Quality: Conformance of a product to requirements, or perceived fitness for its intended use(s).

Reliability: The ability of a product to perform a required function at or below a stated failure rate for a given period of time. This includes changes in process technology affecting critical process steps that could impact the reliability of the part.

Other: A change of product marking technology is considered a major change that could fall in under the other design category.

4.4.3.1.2 Change Type

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType
diagram	<pre> classDiagram class ChangeType { type ChangeType } class MajorChange { type MajorChangeType } class MinorChange { type MinorChangeType } class NoticeType { type MajorChangeNoticeTypeType type DesignChangeType type ManufacturingTestChangeType type PackingShippingChangeType type ProductSpecificationChangeType } class MajorChangeNoticeType { type MajorChangeNoticeTypeType } class MinorChangeNoticeType { type MinorChangeNoticeTypeType } ChangeType < -- MajorChange ChangeType < -- MinorChange MajorChange --> NoticeType MinorChange --> NoticeType NoticeType < -- MajorChangeNoticeType NoticeType < -- MinorChangeNoticeType </pre>
type	ChangeType , MajorChangeType , MajorChangeNoticeTypeType , DesignChangeType , ManufacturingTestChangeType , PackingShippingChangeType , ProductSpecificationChangeType , MinorChangeType , MinorChangeNoticeTypeType

An alteration to the product or process, which may be a major change or a minor change. A major change is a change that may affect the form, fit, or function of the product or adversely affect the quality or reliability of the product. A minor change is a change that does not affect the form, fit, function, quality, or reliability of the product.

Customers must be notified of major changes, whereas notification of minor changes may or may not occur depending on supplier and customer/authorized distributor written agreed requirements.

Major change notifications must be identified via the [MajorChange/NoticeType](#) to either

1. Advanced Notice,
2. Initial Notice,
3. Intermediate Notice,
4. Revision Notice,
5. Final Notice, or
6. Notice Rescinded

4.4.3.1.2 Change Type (cont'd)

Minor change notifications may also be referred to as an “Informational Notice”, “Supplier Communication”, or similar title. If such a notice is sent out, it must clearly state its purpose, so as not to be confused with a PCN for a major change, via the *MinorChange/NoticeType* to either

- 1. Minor-Information Notice, or
- 2. Notice Rescinded

4.4.3.1.2.1 Design

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType/MajorChange/Design
diagram	<pre>classDiagram class DesignChangeType { ExternalDimension xs:boolean CriticalMaterial xs:boolean ProductMarkingTechnology xs:boolean ProcessTechnology xs:boolean Other xs:string } class Design { type DesignChangeType } DesignChangeType "1" *-- "1" Design</pre>
type	DesignChangeType.

The following definitions are defined in the J-Std-046 standard and take precedence over the definitions below.

ExternalDimension: A change to the external dimensions of the part can impact form or fit of the part into its intended product design thus adversely affecting quality or reliability.

CriticalMaterial: A change in critical material or any critical component that adversely affecting quality or reliability, should be indicated here.

ProductMarkingTechnology: A change of product marking technology is considered a major change as opposed to the content of the product marking. For example a product marking technology change may impact the ability for automatic detection of such marking.

ProcessTechnology: A combination of people, procedures, methods, machines, materials, measurement equipment, and/or environment for specific work activities to produce a given product or service.

4.4.3.1.2.2 Manufacturing Test

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType/MajorChange/ManufacturingTest
diagram	
type	ManufacturingTestChangeType.

The following definitions are defined in the J-Std-046 standard and take precedence over the definitions below.

Manufacturing/Test Location: A site transfer to a site not previously qualified (fabrication, assembly, or test site of the finished product) is considered a major change and should be identified as a **Non-PreQualifiedLocation** change.

4.4.3.1.2.3 Packing Shipping

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType/MajorChange/PackingShipping
diagram	
type	PackingShippingChangeType.

The following definitions are defined in the J-Std-046 standard and take precedence over the definitions below and are considered a major change.

CarrierChange: A change in carrier type (tube, reel, tray, etc.) or dimensions.

ProductOrientation: A change of product orientation within shipping media.

Labelling: A significant change of labelling.

DryPackRequirements: A change in dry pack requirements

EnvironmentalStorageRequirements: A reduction in environmental storage conditions.

4.4.3.1.2.4 Product Specification

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType/MajorChange/ProductSpecification
diagram	<p>The diagram illustrates the class hierarchy for ProductSpecificationChangeType. A central box labeled 'ProductSpecificationChangeType' is connected to five other boxes: 'ProductSpecification', 'Datasheet', 'DigitalSpecificationFiles', 'Elimination-of-finalElectricalMeasurement-or-Burn-in', and 'Other'. Each of these five boxes has a dashed border and contains the text 'type ProductSpecificationChangeType'. The 'ProductSpecificationChangeType' box is highlighted in yellow.</p>
type	ProductSpecificationChangeType.

The following definitions are defined in the J-Std-046 standard and take precedence over the definitions below and are considered a major change, unless otherwise noted.

Datasheet: A change of datasheet parameters, such as those defined in electrical specification, assembly process classifications, or thermal specification. The elimination of final electrical measurement or burn-in (if specifically stated in the datasheet as being performed) is considered a major change.

DigitalSpecificationFiles: A change of digital specification files such as the JEP30 PartModel, electrical or thermal simulation models, physical models, that impact any of the criteria previously defined as a major change. Digital files that are modified, solely for the purpose of adding more information, but where such information was not changed by the supplier of the part, are considered minor change. However, if digital files are modified to correct previously entered data that falls under the major change classification, then such corrections to the digital files are considered equivalent to a datasheet change and classified as a major change.

Elimination-of-finalElectricalMeasurement-or-Burn-in: The elimination of final electrical measurement or burn-in (if specifically stated in the datasheet as being performed), is considered a major change.

4.4.3.1.3 Material Declaration Change

path	PartModelType/SupplyChainSection/SupplyChain-Array/ProductChangeNotice/ChangeDescription/ChangeType/MaterialDeclarationChange.
diagram	<pre> classDiagram class MaterialDeclarationChange { type MaterialDeclarationChangeType } class MaterialDeclarationChangeType { IsAvailable type JEP30-D10:EmptyType Will-be-Done type xs:date NoMaterialChange type JEP30-D10:EmptyType NotApplicable type JEP30-D10:EmptyType } MaterialDeclarationChange --> MaterialDeclarationChangeType </pre>
type	MaterialDeclarationChangeType.

[ChangeDescription](#) should also identify if the device material declaration will be updated due to material change as defined in the diagram. If the material declaration change is impacted, then the updated material declaration can be provided via the [EnvironmentalSection](#) as defined in the JEP30 Part Model guideline.

4.4.4 Product Discontinuance

path	PartModel/SupplyChainSection/SupplyChain-Array/ProductDiscontinuance	
diagram		
type	SupplyChainDataType, TemperatureRatingArrayType, SupplyChainMetricsArrayType, SupplyChainDataNetworkModelsType, UnitsforSupplyChainDataType	

The structure defined here maps to the requirements as defined in the J-Std-048 Notification Standard for Product Discontinuance standard. The goal of this notification standard is to better enable customers to manage and mitigate the disruption caused by the discontinuation of a product and ensure continuity of supply. Each PDN that is issued should have its own tracking number which should be recorded in the [PDN-TrackingNumber](#) field. Typically, there is just one publication of a PDN document therefore the revision of the PDN document is optional. However, if a PDN document is revised, then it is advisable that the revision of the PDN document is recorded in the [PDN-Revision](#) element along with the reason for the change in the revision of the PDN document is recorded in the [ReasonForPDN-Revision](#) element.

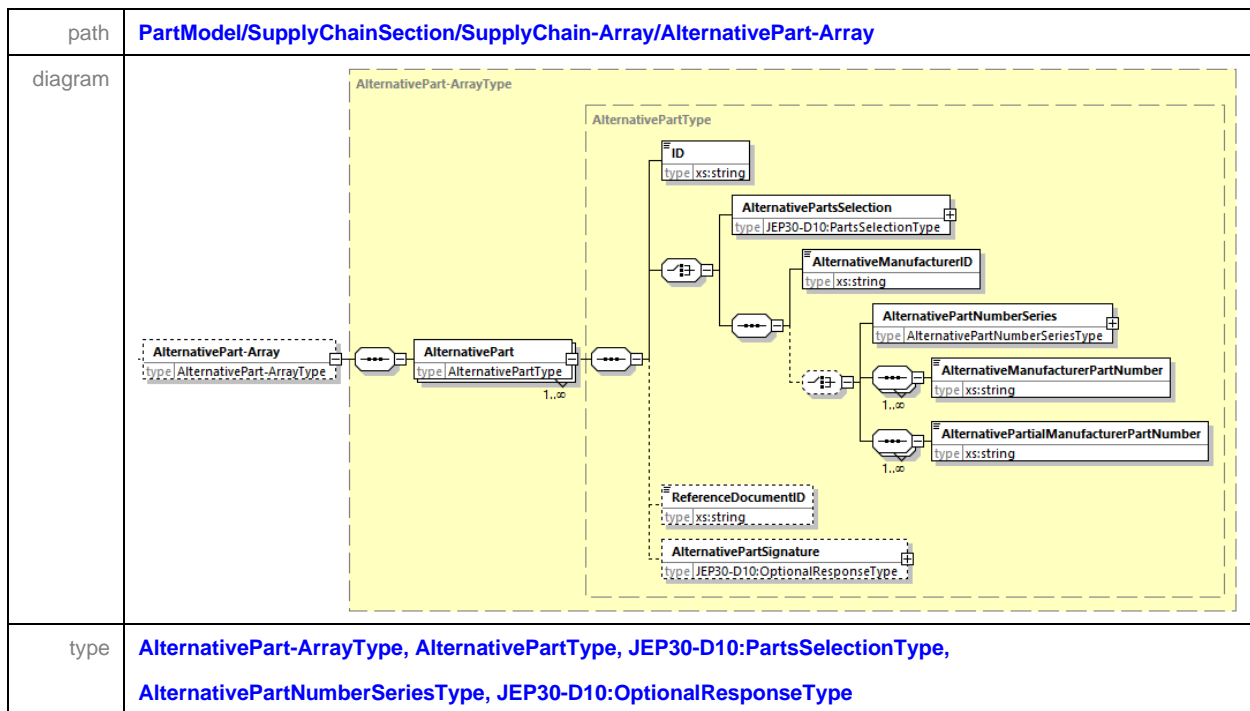
This standard establishes the requirements for timely customer notification of planned product discontinuance, which will assist customers in managing end-of-life supply, or to transition ongoing requirements to alternate products. Notification timing of the [LastOrderDate](#) and [LastShipmentDate](#) are mandatory. The supplier should also provide a [ReasonForDiscontinuance](#) and identify the revision level of notice via the [Version](#) field.

4.4.3 Product Discontinuance (cont'd)

Some suppliers will provide additional information to assist the customers to identify the affected parts, in addition to specifying the parts via the [PartsSelection-Array](#). This can be supported via documentation that can be referenced via the [ReferenceDocuments-Array](#) through the [AffectedPartNumbersDocumentID](#).

The supplier should also suggest replacement products which can be recorded in the following section [AlternativePart-Array](#) structure. The supplier shall assist customers by providing information, recommendations, and technical data to help locate an alternate source or select a replacement product. Under certain conditions this may not be applicable (e.g., custom or semi-custom products for which follow up products are not planned or viable).

4.4.5 Alternative Part - Array



The [AlternativePart-Array](#) structure provides a method for suppliers to provide alternative parts in the event of the issuance of [ProductDiscontinuance](#) of another part or series of parts. The [AlternativePartsSelection](#) follows the same concept outlined in the JEP30 parent schema by leveraging the type [JEP30-D10:PartsSelectionType](#). When suggesting that an entire part number series can be substituted by another part number series from the same manufacturer, the customer should take care in aligning the correct part numbers in the original series with the replacement parts in the replacement series.

4.4.5.1 Alternative Part - Array

path	PartModel/SupplyChainSection/SupplyChain-Array/AlternativePart-Array/AlternativePart/AlternativePartNumberSeries
diagram	<p>The diagram illustrates the structure of the AlternativePartNumberSeries element. It is a complex type that contains three main components: AlternativeManufacturerID (a string), AlternativePartNumberSeries (a complex type), and a choice between AlternativeManufacturerPartNumber and AlternativePartialManufacturerPartNumber (both strings). The AlternativePartNumberSeries child element is further detailed in a yellow box, showing it contains Name and Version (both strings) and a choice between Field-Array, FieldCodeConstraints-Array, and FamilySelection-Array (all arrays).</p>
type	AlternativePartNumberSeriesType, JEP30-D10:PartNumberField-ArrayType, JEP30-D10:FieldCodeConstraints-ArrayType, JEP30-D10:FamilySelection-ArrayType

If the same manufacturer is not providing a replacement part, the Supplier should assist the customer on finding replacement parts from an alternative manufacturer. The [AlternativePartNumberSeries](#) follows the same concept outlined in the JEP30 parent schema and leverages several types that are explained in the JEP30 standard.

Annex A (informative) Differences between JEP30-S100 and its predecessors

This table briefly describes most of the changes made to entries that appear in this standard, JEP30-S100, compared to its predecessor; Punctuation changes may or may not be included.

Initial Issue:	Date: March 2023	Item Number: 839
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Change Record History

Issue: A	Date: August 2024	Item Number: 11.2-1059
Description of Change		
Section 4.1, and section 4.2: Update sections to align with modifications performed at the JEP30 parent structure		
Section 4.4.1.3 Packing: Updated image with correct spelling		

Issue: A.02	Date: February 2025	Item Number: 11.2-1073
Description of Change		
Sections 1, 4.1, and 4.2: Update sections to align with modifications performed at the JEP30 parent structure.		



Standard Improvement Form**JEDEC Standard No. JEP30-S100A.02**

The purpose of this form is to provide the Technical Committees of JEDEC with input from the industry regarding usage of the subject standard. Individuals or companies are invited to submit comments to JEDEC. All comments will be collected and dispersed to the appropriate committee(s).

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1. I recommend changes to the following:

☐ Requirement, clause number _____

☐ Test method number _____ Clause number _____

The referenced clause number has proven to be:

☐ Unclear ☐ Too Rigid ☐ In Error

☐ Other _____

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