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| AirSupply |
| TECHNICAL GUIDE for suppliers  (Machine-to-Machine - M2M) |
| <XML> |
|  |
|  |
| BoostAeroXML V2.10 message format  Demand Forecast Response |
|  |
| Version: 2.0  Date: January 2018 |
|  |
| Document available in English (only) |

**History**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Change Log** |
| 2.0 | January 2018 | Saskia Rewitzer | Document wide redesign – for reasons of clarity and comprehensibility  The change log was cleaned as all old references do no longer exist and would have been misleading in regards to upcoming changes. |
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1. Introduction

# Preface

It is recommended to read the document “Read Me first – BoostAero General information” first, especially if you are a BoostAero XML beginner. The document is available for download on the SupplyOn AirSupply [M2M Guidelines Download Area](https://cms.application.prd.supplyon.com/en/info-portal/supplyon-m2m-guidelines?sid=2&rtid=1).

# Purpose of the document

This document is a technical guide for suppliers to connect to AirSupply via a machine-to-machine connection. The technical guide includes the XML structure definition for high level (business) context in order to provide suppliers with all necessary information. M2M/EDI with the SCM Platform means EDI between suppliers and the SCM application. There is no direct EDI connection or direct message flow between a supplier and its customer bypassing the SCM application. Supplier integration of SupplyOn AirSupply data is possible via two message formats: CSV and BoostAero XML V2.10.

In this document the usage of the BoostAero XML format is described. In addition to this technical guide, you can download the XSD (XML Schema Definition) for this message type from the SupplyOn M2M website.

# Demand Forecast Response Definition

The demand forecast response message provides the ability for a supplier to respond to a demand forecast sent by the customer. The demand forecast response allows the supplier to inform about either the acceptance of the demand forecast as transmitted, or the acceptance of the demand forecast with modifications on items (demand of a product), quantities, dates or the rejection of the entire demand forecast.

# Preliminary Remarks

The following rules apply to all messages if no exception is specified within the respective field description:

|  |  |  |
| --- | --- | --- |
| **Type** | **Explanation** | **Example** |
| Negative numbers | The minus sign must be in front of the digits. | -10 |
| Decimal numbers | The delimiter is a dot | 10.5 |
| Before the delimiter, a maximum of 15digits is allowed | 111112222233333.44 |
| After the delimiter, a maximum of 15 digits is allowed | 99.888887777766666 |
| DATE | Format is CCYY-MM-DD | 2011-05-18 |
| DATETIME | Format is CCYY-MM-DDThh:mm:ss | 2011-05-18T23:59:59 |
| BOOLEAN | Values must be “true” or “false” | true |
| INTEGER | Values must be whole numbers | 5 |
| Currency | The currency is described with three characters. | EUR |

# Composition of XML message table

The table always starts with the parent-element in the first row.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1** - Maximum repetition of the element |  | **3** - Name of the element |  | **5** - Type of the element |  | **7** - Specifies whether the element is mandatory (M) or conditional (C) |

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**➅**

**➃**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | | | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | | | | |  |  |  |  |  |
| **➀** |  | | | | |  |  |  |  |  |
| **0..1** |  | <example tag>  **➂** | | | |  | STRING  **➄** | 35 | C  **➆** | Keyword1 |
| **1..\*** |  |  | <next level example tag> | | |  | BOOLEAN | - | M | Keyword2 |
|  | **➁** |  |  |  | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **2** – Steps and coloring indicate the level and help spot the parent-element |  | **4** - Hierarchical level of the element |  | **6** - Maximum length of the value in the element |  | **8** – Keyword that links to the keyword table |

A parent-element may contain data-elements and/or further elements that can be parent-elements. It has to contain at least one of those two types. While a further parent-element has no keyword ➇in the last column of the table, a data-element is recognized through the keyword. This keyword is referencing to the so called “keyword table” where further explanation for the element can be found. Each element has a defined cardinality ➀ represented by the number in the first column.

The cardinalities shown in this guideline are specific to AirSupply. As BoostAero XML standard is not only used for AirSupply, these AirSupply cardinalities could be more restrictive.

|  |  |
| --- | --- |
| **Cardinality** | **Explanation** |
| **1** | Mandatory element, must occur exactly one time |
| **1..\*** | Mandatory element, must occur at least one time, can be repeated |
| **0..1** | Conditional element, not required, must not be repeated |
| **0..\*** | Conditional element, not required, can be repeated |

!

**Attention**:

A cardinality that is different from the original Boost schema is **colored in blue**. The changed cardinality reflects information that is especially used in regards to the AirSupply application. In most cases, the usage in AirSupply is more restrictive than in the Boost schema. Please implement the message based on the cardinality shown in this guideline. If more repetitions are used than allowed by this guideline, the application will automatically overwrite the initial value with the latest value.

Elements that are mandatory ➆ are marked with a red coloring. If one of these fields is not included in the message, it will be rejected with an according error message.

Elements that are conditional ➆ are either requested by the customer or by the AirSupply application.

All values submitted must also respect the field size ➅ and type definitions ➄. If not, the message will also be rejected with an error message.

# Composition of the keyword table

The table provides more information for each element. The following columns are available:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1** – Keyword referencing to the XML message table |  | **2** – Example value which can also be found in the example message |  | **3** - Description of the content that is expected in the element |  | **4** – XPATH to address each element in the XML structure |

**➃**

**➁**

| **Keyword** | **Example**  **➀** | **Description**  **➂** | **XPATH** |
| --- | --- | --- | --- |
| DocumentType | DEMAND\_FORECAST\_RESPONSE | Value reflects the Boost Aero document name. | /as:CI\_DespatchAdvice/as:CIDAExchangedDocument/asram:NameText |
| SubmissionDate | 2017-06-28T00:00:00 | Submission date and time of the despatch advice. | /as:CI\_DespatchAdvice/as:CIDAExchangedDocument/asram:SubmissionDateTime |

# BoostAero Attribut Codes Lists

Within the document “BAI\_Codes\_Lists\_V2 10\_20110310.xls”, the code lists for the corresponding elements including possible values are attached. Please note that the codes in the exchanged files can be different. AirAupply transmits/expects the codes as sent by the customer.



# Glossary

|  |  |
| --- | --- |
| **Abbreviation** | **Meaning** |
| ASRAM | **A**ero **S**patial **R**eusable **A**ssembly **M**essages  According to the UN/CEFACT NDR (XML Name and Design Rules), this namespace has to be used for all components. |
| as | **A**ero **S**patial |
| CI | **C**ross **I**ndustry |
| CIO | **C**ross **I**ndustry **O**rdering |
| DA | **D**espatch **A**dvice |
| EDI | **E**lectronic **D**ata **I**nterchange is the structured transmission of data between organizations by electronic means. It is used to transfer electronic documents or business data from one computer system to another computer system, i.e. from one trading partner to another trading partner without human intervention. |
| ERP | **E**nterprise **R**esource **P**lanning integrates internal and external management information across an entire organization. |
| M2M | **M**achine-to-**M**achine refers to technologies that allow systems to communicate with other systems of the same ability. |
| SCM | **S**upply **C**hain **M**anagement is the process of planning, implementing, and controlling the operations of the supply chain as efficiently as possible. |
| PO | **P**urchase **O**rder |
| VAT | **V**alue **A**dded **T**ax |
| XML | E**x**tensible **M**arkup **L**anguage |

1. Structure of BA XML Demand Forecast Response

**as:CI\_DemandForecastResponse** is the root tag and contains the following data segments:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | |  |  |  |  |  |
| **1** | <as:CI\_DemandForecastResponse> | |  |  |  |  |  |
| **1** |  | <as:CIExchangedDocumentContext> |  |  |  |  |  |
| **1** |  | <as:CISExchangedDocument> |  |  |  |  |  |
| **1** |  | <as:CISDRSupplyChainTradeTransaction> |  |  |  |  |  |

# as:CIExchangedDocumentContext

This segment contains message exchange specific data like the message-ID or the creation timestamp.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | | | |  |  |  |  |  |
| **1** | <as:CIExchangedDocumentContext> | | | |  |  |  |  |  |
| **0..1** |  | <asram:SpecifiedTransactionIdentifier> | | |  | STRING | 50 | C | ExternalMessageID |
| **1..\*** |  | <asram:ApplicationSpecifiedCIDocumentContextParameter> | | |  |  |  |  |  |
| **1** |  |  | <asram:SpecifiedCIDocumentVersion> | |  |  |  |  |  |
| **1** |  |  |  | <asram:IssueDateTime> |  | DATETIME | - | M | CreationTimeStamp |

| **Keyword** | **Example** | **Description** | **XPATH** |
| --- | --- | --- | --- |
| ExternalMessageID | 013729.827 | Supplier Payload ID.  Value is used in the BackControlMessage to determine the supplier’s message. | /as:CI\_DemandForecastResponse/as:CIExchangedDocumentContext/asram:SpecifiedTransactionIdentifier |
| CreationTimeStamp | 2017-07-10T13:37:29 | Supplier ERP creation date and time of the demand forecast response message | /as:CI\_DemandForecastResponse/as:CIExchangedDocumentContext/asram:ApplicationSpecifiedCIDocumentContextParameter/asram:SpecifiedCIDocumentVersion/asram:IssueDateTime |

# 

# as:CISExchangedDocument

as:CISExchangedDocument contains adjustment information about the forecast data.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | | |  |  |  |  |  |
| **1** | <as:CIExchangedDocument> | | |  |  |  |  |  |
| **1** |  | <asram:IncludedCINote> | |  |  |  |  |  |
| **1** |  |  | <asram:IdentificationIdentifier> |  | STRING | 50 | M | HeaderFlexIdentifier |
| **0..1** |  |  | <asram:SubjectCode> |  | STRING | 256 | M | HeaderFlexCode |
| **1** |  | <asram:RecipientCITradeParty> | |  |  |  |  |  |
| **1** |  |  | <asram:IdentificationIdentifier> |  | STRING | 70 | M | ReceiverInfo |
| **1** |  | <asram:SenderCITradeParty> | |  |  |  |  |  |
| **1** |  |  | <asram:IdentificationIdentifier> |  | STRING | 70 | M | SenderInfo |

| **Keyword** | **Example** | **Description** | **XPATH** |
| --- | --- | --- | --- |
| SubmissionDate | 2017-07-10T13:31:58 | Defines the publishing date of the forecast.  Can contain "default"; AirSupply will immediately publish the forecast if no PublishingDate or the default is set. | /as:CI\_DemandForecastResponse/as:CISExchangedDocument/asram:SubmissionDateTime |
| HeaderFlexIdentifier | Freekey2 | FreeKey.  This key defines the qualifier which groups all forecast contents to be used to generate the time-bucket aggregation (sum).  The Aggregation Level Code (ALC) can e.g. contain the name of a natco or the name of a plant in which case the forecast data will be aggregated by this entity or this plan.  However – the system has no restriction in content on this field, accordingly the exporting service (SAP) can utilize it in any appropriate fashion (e.g. by combining the plant and the buyer code within the ALC). | /as:CI\_DemandForecastResponse/as:CISExchangedDocument/asram:IncludedCINote/asram:IdentificationIdentifier |
| HeaderFlexCode | FK | Fixed code:  **FK** = FreeKey  Attention: the HeaderFlexCode plus the respective HeaderFlexIdentifier containing the value of the free key are mandatory and appear exactly once in the message. | /as:CI\_DemandForecastResponse/as:CISExchangedDocument/asram:IncludedCINote/asram:SubjectCode |
| ReceiverInfo | AIRSUPPLY | Indicates the party who receives the XML message. No key, just used for better traceability. | /as:CI\_DemandForecastResponse/as:CISExchangedDocument/asram:RecipientCITradeParty/asram:IdentificationIdentifier |
| SenderInfo | 100007544 | Indicates the party who sends the XML message.  No key, used just for better traceability. | /as:CI\_DemandForecastResponse/as:CISExchangedDocument/asram:SenderCITradeParty/asram:IdentificationIdentifier |

# as:CISDRSupplyChainTradeTransaction

**as:CISDRSupplyChainTradeTransaction** contains child segments which carry the customer and supplier addresses as well as the material data and the delivery location. These child segments are:

* asram:ApplicableCISSupplyChainTradeAgreement
* asram:IncludedCISDRLSupplyChainTradeLineItem
* asram:ApplicableCISHSupplyChainTradeDelivery

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | |  |  |  |  |  |
| **1** | <as: CISDFSupplyChainTradeTransaction> | |  |  |  |  |  |
| **1** |  | <asram: ApplicableCISSupplyChainTradeAgreement> |  |  |  |  |  |
| **1..\*** |  | <asram: IncludedCISDFLSupplyChainTradeLineItem> |  |  |  |  |  |
| **1** |  | <asram: ApplicableCISHSupplyChainTradeDelivery> |  |  |  |  |  |

## asram:ApplicableCISSupplyChainTradeAgreement

**asram:ApplicableCISSupplyChainTradeAgreement** contains messasge information about the customer and supplier classification as well as data and references of the agreement contract.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | | | |  |  |  |  |  |
| **1** | <asram:ApplicableCISSupplyChainTradeAgreement> | | | |  |  |  |  |  |
| **1** |  | <asram:BuyerCITradeParty> | | |  |  |  |  |  |
| **0..1** |  |  | <asram:IdentificationIdentifier> | |  | STRING | 10 | C | CustomerOrgCode |
| **0..1** |  |  | <asram:NameText> | |  | STRING | 10 | C | CustomerOrgName |
| **1** |  |  | <asram:SpecifiedCILegalOrganization> | |  |  |  |  |  |
| **1** |  |  |  | <asram:IdentificationIdentifier> |  | STRING | 5 | M | CustomerGroupCode |
| **0..1** |  |  |  | <asram:NameText> |  | STRING | 50 | C | CustomerGroupName |
| **1** |  | <asram:SellerCITradeParty> | | |  |  |  |  |  |
| **1** |  |  | <asram:IdentificationIdentifier> | |  | STRING | 64 | M | SupplierNumber |
| **0..1** |  |  | <asram:NameText> | |  | STRING | 10 | C | SupplierOrgName |

| **Keyword** | **Example** | **Description** | **XPATH** |
| --- | --- | --- | --- |
| CustomerOrgCode | AFR | Short name of the customer organization. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISSupplyChainTradeAgreement/asram:BuyerCITradeParty/asram:IdentificationIdentifier |
| CustomerOrgName | PD\_Airbus France LE | Defines the organizational unit of the customer. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISSupplyChainTradeAgreement/asram:BuyerCITradeParty/asram:NameText |
| CustomerGroupCode | AIRB | Buyer Corporate Group Code,  e.g. **IAIR** for Airbus SAS, **EUROC** for Airbus Helicopters, **PAG** for Permium Aerotec etc. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISSupplyChainTradeAgreement/asram:BuyerCITradeParty/asram:SpecifiedCILegalOrganization/asram:IdentificationIdentifier |
| CustomerGroupName | PD\_AIRBUS | The top level name of the customer. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISSupplyChainTradeAgreement/asram:BuyerCITradeParty/asram:SpecifiedCILegalOrganization/asram:NameText |
| SupplierNumber | 807317 | Defines the supplier number assigned by the customer. This ID is a key for response messages and identifies the supplier within AirSupply and all corresponding messages. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISSupplyChainTradeAgreement/asram:SellerCITradeParty/asram:IdentificationIdentifier |
| SupplierOrgName | HONEY | Defines the organizational unit of the supplier. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISSupplyChainTradeAgreement/asram:SellerCITradeParty/asram:NameText |

## asram:IncludedCISDRLSupplyChainTradeLineItem

**asram:IncludedCISDRLSupplyChainTradeLineItem** contains message information about the material data.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | | | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | | | | |  |  |  |  |  |
| **1..\*** | <asram:IncludedCISDRLSupplyChainTradeLineItem> | | | | |  |  |  |  |  |
| **1** |  | <asram:AssociatedCIDocumentLineDocument> | | | |  |  |  |  |  |
| **1** |  | <asram:SpecifiedCITradeProduct> | | | |  |  |  |  |  |
| **1** |  |  | <asram:CustomerAssignedIdentificationIdentifier> | | |  | STRING | 64 | M | CustMatNumber |
| **1** |  | <asram:SpecifiedCISSupplyChainTradeAgreement> | | | |  |  |  |  |  |
| **1** |  |  | <asram:ProgramCIMissionProject> | | |  |  |  |  |  |
| **0..\*** |  |  |  | <asram:IdentificationIdentifier> | |  | STRING | 16 | C | ProgramMSN |
| **1** |  | <asram:SpecifiedCISDRLSupplyChainTradeDelivery> | | | |  |  |  |  |  |
| **1..\*** |  |  | <asram:ForecastedCISupplyChainSupplyPlan> | | |  |  |  |  |  |
| **0..1** |  |  |  | <asram:CommitmentLevelCode> | |  | STRING | 64 | C | HorizonType |
| **1** |  |  |  | <asram:TypeCode> | |  | STRING | 6 | M | DataMeasure |
| **0..\*** |  |  |  | <asram:PromisedDeliveryCISupplyChainEvent> | |  |  |  |  |  |
| **0..\*** |  |  |  |  | <asram:DescriptionText> |  | STRING | 140 | C | SuppRemark |
| **0..1** |  |  |  |  | <asram:TypeCode> |  | STRING | 4 | C | RemarkCode |
| **1..\*** |  |  |  | <asram:RequestedDeliveryCISupplyChainEvent> | |  |  |  |  |  |
| **1** |  |  |  |  | <asram:OccurrenceDateTime> |  | DATETIME | - | M | DemandDate |
| **1** |  |  |  |  | <asram:UnitQuantity> |  | DECIMAL | - | M | DemandQuantity |

| **Keyword** | **Example** | **Description** | **XPATH** |
| --- | --- | --- | --- |
| CustMatNumber | CMN-142205011-1 | Customer Material Number. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCITradeProduct/asram:CustomerAssignedIdentificationIdentifier |
| ProgramMSN | LR/380000001 | Program/MSN:  Defines the Aircraft type and Material Serial Number.  Mandatory in case the part is declared critical. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISSupplyChainTradeAgreement/asram:ProgramCIMissionProject/asram:IdentificationIdentifier |
| HorizonType | FIRM | Possible values are:  **FIRM** = firm horizon (short term demands)  **FLEX** = flexible horizon (mid to long term demands)  **PROV** = provisional horizon (very long term demands) | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:CommitmentLevelCode |
| DataMeasure | SUPCOM | Possible values are:  **PUBDMD** = published demand  **PRVDMD** = previous published demand  **SUPCOM** = supplier commitment  **CUSTUN** = customer tuning | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:TypeCode |
| SuppRemark | New blue coating as requested. | Supplier Remark.  Value depends on RemarkCode | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:PromisedDeliveryCISupplyChainEvent/asram:DescriptionText |
| RemarkCode | DDFS | Possible values are:  **DDFS** = DedicatedRemarkField\_Supplier: Comment field usable by supplier. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:PromisedDeliveryCISupplyChainEvent/asram:TypeCode |
| DemandDate | 2017-08-19T00:00:00 | Delivery Date/Demand Date.  The due date of the delivery. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:RequestedDeliveryCISupplyChainEvent/asram:OccurrenceDateTime |
| DemandQuantity | 100 | The quantity to be delivered. | Value:  /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:RequestedDeliveryCISupplyChainEvent/asram:UnitQuantity  Attribute:  /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:IncludedCISDRLSupplyChainTradeLineItem/asram:SpecifiedCISDRLSupplyChainTradeDelivery/asram:ForecastedCISupplyChainSupplyPlan/asram:RequestedDeliveryCISupplyChainEvent/asram:UnitQuantity/@unitCode |

## asram:ApplicableCISHSupplyChainTradeDelivery

**asram:** **ApplicableCISHSupplyChainTradeDelivery** contains message information about supplier site and delivery location.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cardinality** | **Segment Name** | | | **LVL** | **TYPE** | **LEN** | **M/C** | **Keyword** |
|  |  | | |  |  |  |  |  |
| **1** | <asram:ApplicableCISHSupplyChainTradeDelivery> | | |  |  |  |  |  |
| **1** |  | <asram:ShipFromCITradeParty> | |  |  |  |  |  |
| **1..\*** |  |  | <asram:NameText> |  | STRING | 255 | C | ShipFromName |
| **1** |  | <asram:ShipToCITradeParty> | |  |  |  |  |  |
| **1..\*** |  |  | <asram:IdentificationIdentifier> |  | STRING | 50 | M | ShipToPlant |
| **1..\*** |  |  | <asram:NameText> |  | STRING | 50 | C | ShipToName |

| **Keyword** | **Example** | **Description** | **XPATH** |
| --- | --- | --- | --- |
| ShipFromName | PD\_Honeywell R | Supplier Site | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISHSupplyChainTradeDelivery/asram:ShipFromCITradeParty/asram:NameText |
| ShipToPlant | FAL | Customer Plant Code.  Defines the qualifier which groups all forecast contents to be used to generate the time-bucket aggregation (sum).  The Aggregation Level Code can e.g. contain the name of a natco or the name of a plant in which case the forecast data will be aggregated by this entity or this plan.  However – the system has no restriction in content on this field, accordingly the exporting service (SAP) can utilize it in any appropriate fashion (e.g. by combining the plant and the buyer code within the ALC). | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISHSupplyChainTradeDelivery/asram:ShipToCITradeParty/asram:IdentificationIdentifier |
| ShipToName | AFR\_FAL | Customer Plant Name. | /as:CI\_DemandForecastResponse/as:CISDRSupplyChainTradeTransaction/asram:ApplicableCISHSupplyChainTradeDelivery/asram:ShipToCITradeParty/asram:NameText |

1. Hierarchical View

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **LVL** | **Segment Name** | | | | | | |
|  |  | | | | | | |
|  | <as:CI\_DemandForecastResponse> | | | | | | |
|  |  | <as:CIExchangedDocumentContext> | | | | | |
|  |  |  | <asram:SpecifiedTransactionIdentifier> | | | | |
|  |  |  | <asram:ApplicationSpecifiedCIDocumentContextParameter> | | | | |
|  |  |  |  | <asram:SpecifiedCIDocumentVersion> | | | |
|  |  |  |  |  | <asram:IssueDateTime> | | |
|  |  | <as:CISExchangedDocument> | | | | | |
|  |  |  | <asram:IncludedCINote> | | | | |
|  |  |  |  | <asram:IdentificationIdentifier> | | | |
|  |  |  |  | <asram:SubjectCode> | | | |
|  |  |  | <asram:RecipientCITradeParty> | | | | |
|  |  |  |  | <asram:IdentificationIdentifier> | | | |
|  |  |  | <asram:SenderCITradeParty> | | | | |
|  |  |  |  | <asram:IdentificationIdentifier> | | | |
|  |  | <as:CISDRSupplyChainTradeTransaction> | | | | | |
|  |  |  | <asram:ApplicableCISSupplyChainTradeAgreement> | | | | |
|  |  |  |  | <asram:BuyerCITradeParty> | | | |
|  |  |  |  |  | <asram:IdentificationIdentifier> | | |
|  |  |  |  |  | <asram:NameText> | | |
|  |  |  |  |  | <asram:SpecifiedCILegalOrganization> | | |
|  |  |  |  |  |  | <asram:IdentificationIdentifier> | |
|  |  |  |  |  |  | <asram:NameText> | |
|  |  |  |  | <asram:SellerCITradeParty> | | | |
|  |  |  |  |  | <asram:IdentificationIdentifier> | | |
|  |  |  |  |  | <asram:NameText> | | |
|  |  |  | <asram:IncludedCISDRLSupplyChainTradeLineItem> | | | | |
|  |  |  |  | <asram:AssociatedCIDocumentLineDocument> | | | |
|  |  |  |  | <asram:SpecifiedCITradeProduct> | | | |
|  |  |  |  |  | <asram:CustomerAssignedIdentificationIdentifier> | | |
|  |  |  |  | <asram:SpecifiedCISSupplyChainTradeAgreement> | | | |
|  |  |  |  |  | <asram:ProgramCIMissionProject> | | |
|  |  |  |  |  |  | <asram:IdentificationIdentifier> | |
|  |  |  |  | <asram:SpecifiedCISDRLSupplyChainTradeDelivery> | | | |
|  |  |  |  |  | <asram:ForecastedCISupplyChainSupplyPlan> | | |
|  |  |  |  |  |  | <asram:CommitmentLevelCode> | |
|  |  |  |  |  |  | <asram:TypeCode> | |
|  |  |  |  |  |  | <asram:PromisedDeliveryCISupplyChainEvent> | |
|  |  |  |  |  |  |  | <asram:DescriptionText> |
|  |  |  |  |  |  |  | <asram:TypeCode> |
|  |  |  |  |  |  | <asram:RequestedDeliveryCISupplyChainEvent> | |
|  |  |  |  |  |  |  | <asram:UnitQuantity> |

1. Example Message

