

Implementation Challenges of S-Series Specification, S3000L/S2000M

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Integrated Support Systems: Brief Background

- **Established: 1984**
- **Locations: USA / France**
- **Integrated Logistics Support (ILS) / Configuration Management (CM) software development**
- **Related technical services / custom software development / training**
- **ILS engineering consulting**
- **Active involvement with international ILS standards committees**

Integrated Support Systems Deployed Solutions

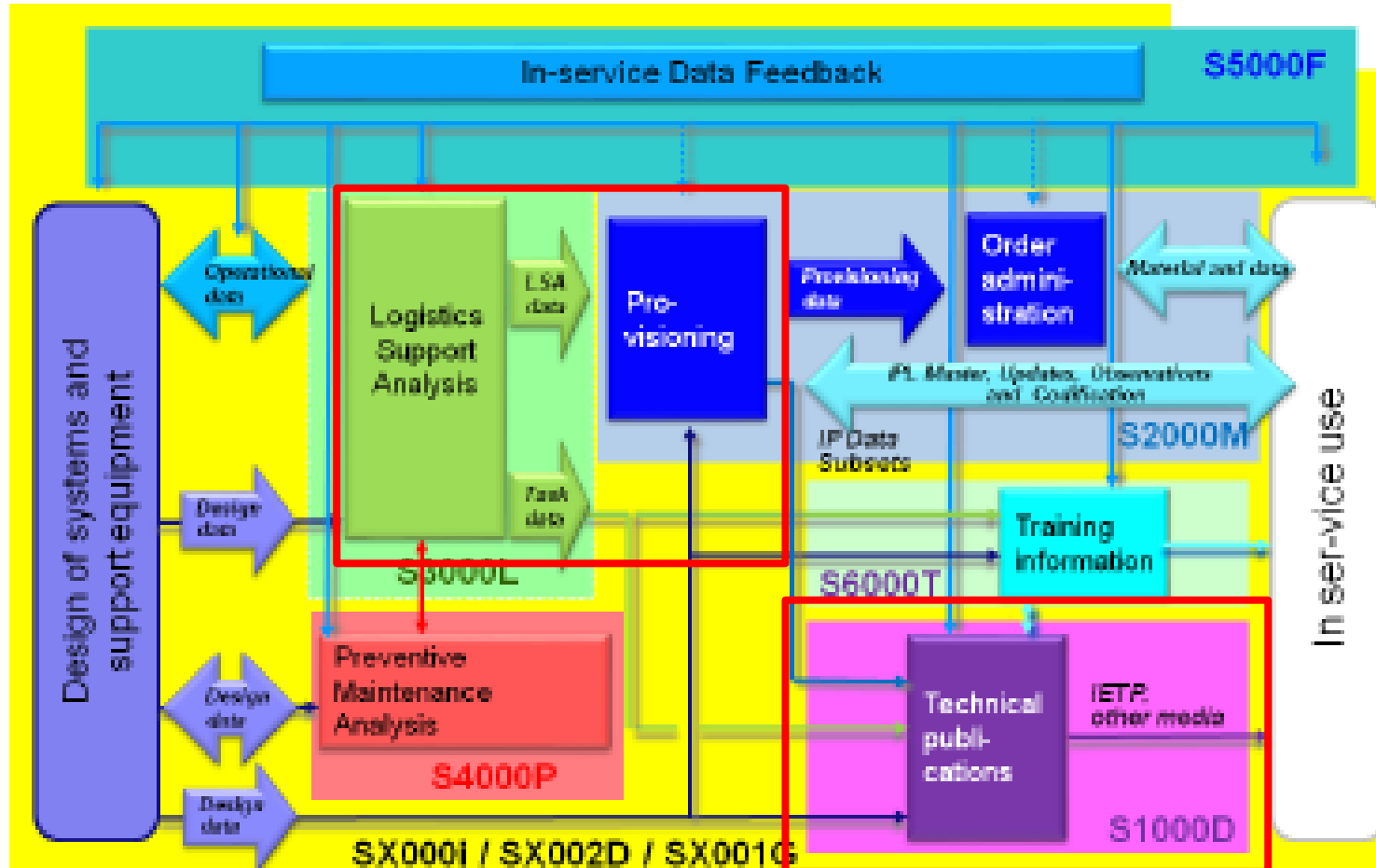
- **Logistics Support Analysis (LSA) and Provisioning**

- Supported Standards: MIL-STD-1388-2B, DefStan 00-60, GEIA-STD-0007, ASD S3000L, ASD S2000M, with interface to ASD S1000D
- Active Participation on:
 - SAE Life Cycle Logistics Support Committee (LCLS)
 - ASD Data Model Exchange Working Group (DMEWG)
 - ASD S3000L Steering Committee
 - ASD PLCS (S2000M) Task Team
 - ASD S1000XTT (S1000D Interface) Task Team

- **Product Definition and Configuration**

- Standards Supported: MIL-STD-973/2549, SAE GEIA-HB 649, EIA-836, AP 203/CC1, AP 232, pdmschema
 - Prior participation on the PDES, Inc. Technical Advisory Committee

Integrated Logistics Support ASD S Series Specifications

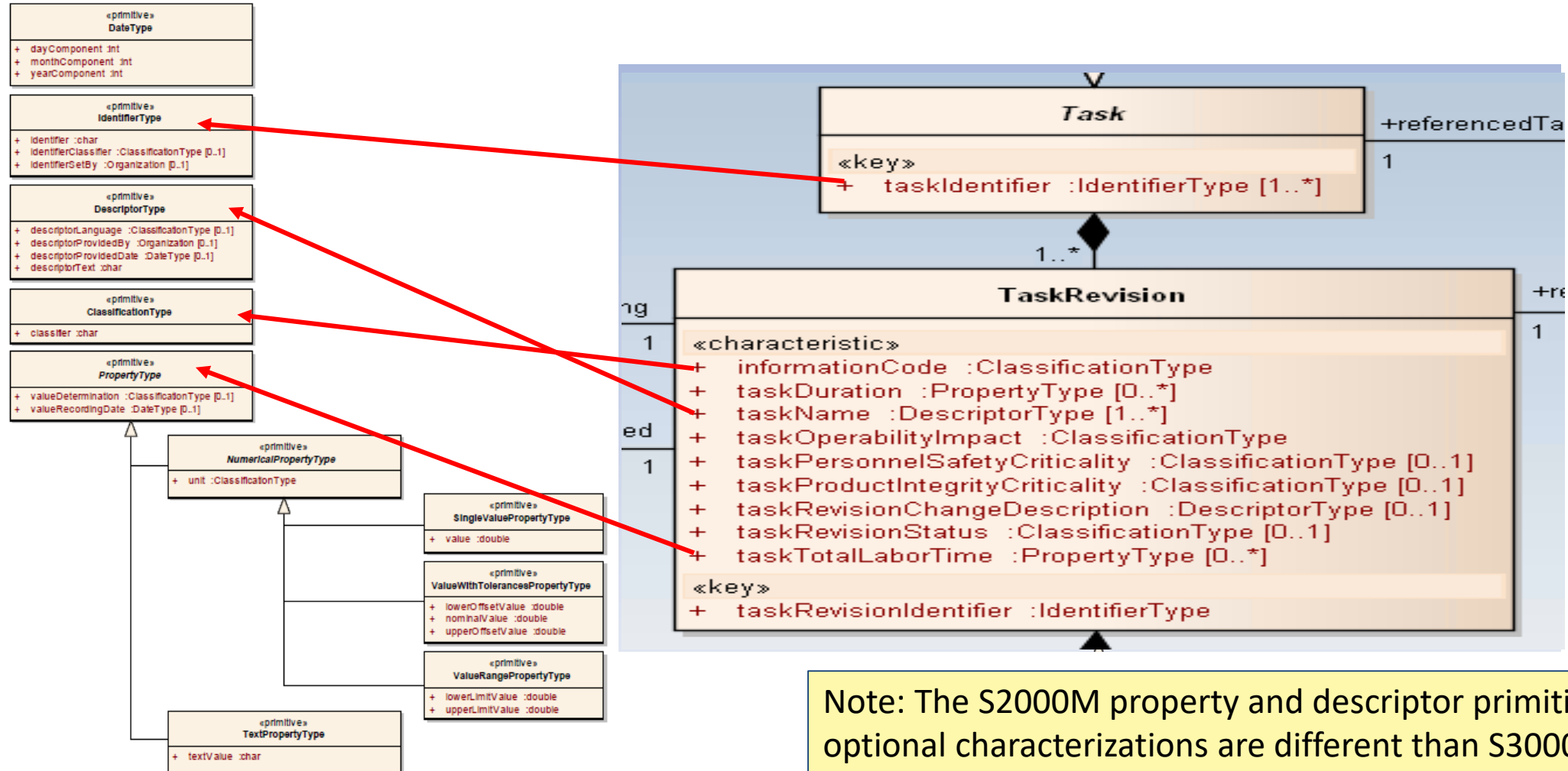


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Challenging Areas

- **Support for S Series primitive data types**
 - Identifier
 - Property
 - Descriptor
 - Classification
- **Data Exchange**
- **Common Part definition (HardwarePartAsDesigned) between S3000L and S2000M**
- **Maintenance Task and Initial Provisioning data supporting S1000D DM generation**

Primitive Data Types: Building Blocks for S3000L and S2000M Schema



Note: The S2000M property and descriptor primitive optional characterizations are different than S3000L primitive optional characterizations.

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Primitive Data Types: Identifiers

- **ASD S3000L / S2000M:**

- Business object identifiers in the S3000L and S2000M schema may or may not have multiple identifier values, dependent on the class. If multiple identifiers, optional characterizations must differentiate the value of the identifier.
 - Several S3000L classes allow multiple identifiers. S2000M classes only allow a single identifier
- The optional characterizations for identifiers are identifierClassifier and identifierSetBy (Organization)
 - The identifierClassifier is a classification. Note: classifications may be tailored by project

As reference, the identifiers in GEIA-STD-0007 (and 1388-2B) are explicitly defined in clear text in all usages (all classes)

Identifier Primitive

1 S3000L_BKDNELMTLIST: Breakdown Element List (Database: MRSATEST) (Unlocked)

File Edit View Screens Tools Navigator Help

| Breakdown Element ID* | Breakdown Element Type* | Aggregated Element Type | Hardware Element Type |
|-----------------------|-------------------------|-------------------------|-----------------------|
| T850 LEAA 00 P | HW:Hardware | | |
| T850 LEAA 01 P | HW:Hardware | | |
| T850 LEAA 02 P | HW:Hardware | | |
| T850 LEAA 03 P | HW:Hardware | | |
| T850 LEAA01 00 P | HW:Hardware | | |
| T850 LEAA01EA 00 P | HW:Hardware | | |
| T850 LEAA01EA01 00 P | HW:Hardware | | |
| T850 LEAA01EA03 00 P | HW:Hardware | | |
| T850 LEAA01EA05 00 P | HW:Hardware | | |
| T850 LEAA01EA07 00 P | HW:Hardware | | |

Primitive Information for Breakdown Element ID*: IdentifierMultiple

| Primary Field | ID* | Classification | Set by Organization |
|----------------------------------|----------------|-------------------------------------|---------------------|
| <input checked="" type="radio"/> | T850_LEAA_00_P | LCN (SX001G:logisticsControlNumber) | |
| <input type="radio"/> | 0101 | BEI (SX001G:breakdownElementIde...) | |

T850_LEAA_00_P

32/256

OK Cancel Help

INS

Example of multiple S3000L identifiers with defining classification characterization

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Primitive Data Types: Properties

- **ASD S3000L / S2000M:**

- Property values in the S3000L and S2000M schema require a unit of measure. If multiple values, optional characterizations must differentiate the value.
 - All S3000L properties allow multiple values. Almost all S2000M properties only allow a single value.
- S3000L has additional characterization attributes: valueDetermination and valueRecordingDate
- S3000L properties may also be text properties

As reference, the properties in GEIA-STD-0007 (and 1388-2B) are typically numeric values (integer or real) with a related unit

Property Primitive

8 S3000L_FAILUREMODE: Failure Mode (Database: MRSATEST) (Unlocked)

File Edit View Screens Tools Navigator Help

Failure Mode Id T850_LEAA_00_P_FAAA

Failure Mode Type* Technical

Failure Mode Description* ENGINE WON'T START

Part Candidate

Part ID

Part Name

Breakdown Element Revision Candidate

Breakdown Element ID T850_LEAA_00_P

Breakdown Element Type HW:Hardware

Breakdown Element Name ENGINE ASSEMBLY

Breakdown Element Rev ID 01

Breakdown Element Rev Descr

| Definition | Failure Mode Detection Ability | Related LSA Failure | Related Technical Failure | Failure Detection Item | Failure Mode Effect | Task Requ |
|---|--------------------------------|---------------------|---------------------------|------------------------|---------------------|-----------|
| Failure Mode Detection Ability Description | | | | | | |
| Failure Mode Localization Ability Desc | | | | | | |
| LSA Failure Mode Distribution Rating | | | | | | |
| LSA Failure Mode Distribution Ratio | | | | | | |
| Failure Mode Isolation Rate | | | | | | |
| Related EIAC | T850 | | | | | |
| Related ALC | | | | | | |
| Realted FMI | | | | | | |

Failure Mode Failure Rate HR:0.0018000

Related LCN LEAA

Primitive Information for Failure Mode Failure Rate: PropertyS3000LMultiple

| Primary Field | Property Type | Unit | Value | Lower Bound | Upper Bound | Date | VDTM |
|----------------------------------|---------------|------|-----------|-------------|-------------|------------|-----------|
| <input checked="" type="radio"/> | V (Numeric) | HR | 0.0018000 | | | 2018/08/17 | EST (S... |

OK Cancel Help

Example of an S3000L property with defining unit of measure, date and value determination

Primitive Data Types: Descriptor

- **ASD S3000L / S2000M:**

- Descriptor values in the S3000L and S2000M schema are string values. If multiple values, optional characterizations must differentiate the value.
 - All S3000L descriptors allow multiple values. S2000M descriptors only allow a single value.
- S3000L has additional characterization attributes: descriptorLanguage, descriptorProvidedBy (Organization) and descriptorProvidedDate.

As reference, the descriptors in GEIA-STD-0007 (and 1388-2B) are single value strings

Descriptor Primitive

The screenshot shows a software interface for configuring a subtask. The main window displays the following details:

- Task ID:** T850_0300_00_F_CCOXCAA
- Task Type:** Rectifying
- Task Rev ID:** 01
- Task Name:** REPLENISH FUEL DAILY
- Subtask ID:** 001
- Subtask Name:** FILL FUEL TANK WITH JP8 FUEL

A dialog box titled "13 S3000L_SUBTASK: Subtask Identification (Database: MRSATEST) (Locked)" is open, showing "Primitive Information for Subtask Name: DescriptorS3000LMultiple". The dialog contains a table with the following data:

| Primary Field | Description* | Language | Provided by Organization | Provided Date |
|----------------------------------|---|--------------------------|--------------------------|---------------|
| <input checked="" type="radio"/> | FILL FUEL TANK WITH JP8 FUEL | en (ISO639-1988:english) | 00345 | 2018/08/10 |
| <input type="radio"/> | KRAFTSTOFFTANK MIT JP8 KRAFTSTOFF EINFÜLLEN | de (ISO639-1988:german) | 00345 | 2018/08/10 |
| <input type="radio"/> | REMPLIR LE RÉSERVOIR DE CARBURANT AVEC DU CARBURANT JP8 | fr (ISO639-1988:french) | 00345 | 2018/08/10 |

The dialog also includes fields for "Subtask Role", "Information Code", "Subtask Description", "Subtask Maintenance", "Subtask Duration", and "Subtask End Item". The "Subtask End Item" field contains the text "FILL FUEL TANK WITH JP8 FUEL".

Example of an S3000L descriptor with defining language, providedByOrganization and providedByDate

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Primitive Data Types: Classification

- **ASD S3000L / S2000M:**
 - Classification values in the S3000L and S2000M schema are defined in schemas.
 - The classifications are able to be updated for project specific requirements
 - Classification values are used in the unique identification of business object identifiers and the multiple value elements within a business object

Classification Primitive

s3000l_1-1_valid_values_xsd.xml

```

</xsd:simpleType>
- <xsd:simpleType name="hardwareElementStructuralIndicatorCodeValues">
  - <xsd:restriction base="xsd:string">
    <!-- S3000L Data Element Examples -->
    - <xsd:enumeration value="SSI">
      - <xsd:annotation>
        <xsd:appinfo>SX001G:structuralSignificantItem</xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
    - <xsd:enumeration value="SI">
      - <xsd:annotation>
        <xsd:appinfo>SX001G:structuralItem</xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
    - <xsd:enumeration value="SD">
      - <xsd:annotation>
        <xsd:appinfo>SX001G:structuralDetail</xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
    - <xsd:enumeration value="NA">
      - <xsd:annotation>
        <xsd:appinfo>SX001G:notApplicable</xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>
  
```

| ID | Name Defined By | Component Value | Value Defined By | Valid Values: Appinfo | Value Type | Licensed For |
|--|-----------------|-----------------|------------------|----------------------------------|------------|--------------|
| hardwareElementStructuralIndicatorCodeValues | System | NA | System | SX001G:notApplicable | Value | |
| hardwareElementStructuralIndicatorCodeValues | System | SD | System | SX001G:structuralDetail | Value | |
| hardwareElementStructuralIndicatorCodeValues | System | SI | System | SX001G:structuralItem | Value | |
| hardwareElementStructuralIndicatorCodeValues | System | SSI | System | SX001G:structuralSignificantItem | Value | |

Classifications provide a standard set of element valid values that may be modified for program specific requirements.

| Value Name* | Name Defined By | Component Value | Valid Values: Appinfo | Value Type | Valid Value |
|--|-----------------|-----------------|--|------------|-------------|
| hardwareElementStructuralIndicatorCodeValues | System | SSE | {Prog-Name}:structuralSignificantElement | Value | Inserted |
| CustomSpecialEvent | System | Strike | MyProject: Bird Strike | Value | Inserted |

Hardware
HW Element Replacability
HW Element Replacability Strat
HW Element Repairability
HW Element Repairability Strat
HW Element Structural Indicator Code Values

Software
SW Element Mod Freq

NA: SX001G:notApplicable
SD: SX001G:structuralDetail
SI: SX001G:structuralItem
SSE: [Prog-Name]:structuralSignificantElement
SSI: SX001G:structuralSignificantItem

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Data Exchange

- The SX005G: S Series ILS specifications XML schema implementation guidance defines how the exchange files for the S Series specifications (S2000M, S3000L, S4000P, S5000F, S6000T) are implemented
 - Full file exchange, as well as net change is defined

S-Series ILS specifications XML schema implementation guidance

SX005G-B6865-05000-00

Issue No. 1.0



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SX005G-B6865-05000-00



Chapter 2.2

XML schema implementation guidance - A simple UML class

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Data Exchange: The support/management of the primitive data type, optional characterizations enable the accurate exchange of the data

Example of a task business object with multiple identifiers and a property element of the business object that has multiple values

| Primary Field | ID* | Classification | Set by Organization |
|----------------------------------|----------------------------------|-------------------------|-----------------------|
| <input checked="" type="radio"/> | T850_LEAA05AA_00_P_HGOJACA | TID (SX001G:taskIden... | 00000 (Migration Org) |
| <input type="radio"/> | Remove&Replace_Controller_Ass... | TID (SX001G:taskIden... | 00345 |

| Primary Field | Property Type | Unit | Value | Lower Bound | Upper Bound | Dat | VDTM |
|----------------------------------|---------------|-------------------|-------|-------------|-------------|-----|-----------------|
| <input checked="" type="radio"/> | V (Numeric) | MH (SX001G:man... | 1.99 | | | | MEAS (SX001... |
| <input type="radio"/> | V (Numeric) | MH (SX001G:man... | 2.00 | | | | EST (SX001G:... |

```

<task xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ns2="http://www.asd-eu.org/2001/XMLSchema-instance">
  <taskId>
    <id>T850_LEAA05AA_00_P_HGOJACA</id>
    <class>TID</class>
    <setBy>
      <orgId>
        <id>00000</id>
      </orgId>
    </setBy>
  </taskId>
  <taskId>
    <id>Remove&Replace_Controller_Assembly</id>
    <class>TID</class>
    <setBy>
      <orgId>
        <id>00345</id>
      </orgId>
    </setBy>
  </taskId>
  <taskRev uid="taskrev0001">
    <taskRevId>...</taskRevId>
    <name>
      <descr>R/R CONTROLLER ASSY</descr>
    </name>
    <status>...</status>
    <duration>...</duration>
    <laborTime>
      <vdtm>MEAS</vdtm>
      <unit>MH</unit>
      <value>1.99</value>
    </laborTime>
    <laborTime>
      <vdtm>EST</vdtm>
      <unit>MH</unit>
      <value>2.00</value>
    </laborTime>
  </taskRev>
</task>
  
```

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Common Part Definitions between S3000L and S2000M

- **Both the S3000L and the S2000M specifications use a common definition of HardwarePartAsDesigned**
 - The S3000L allows multiple identifier values
 - The S2000M allows one identifier value
 - Both the identifiers have the same optional characterizations of partIdentifierClass and organizationReference
 - The partIdentifierClass value (PNO: partNumber) may be used to determine which partIdentifier is used in the S2000M exchange file.

Common Part Definitions between S3000L and S2000M

S 7 S3000L_PART: Part Definition Identification (Database: MPAV_SLIC) (Unlocked)

File Edit View Screens Tools Navigator Help

Part ID: OSDA500153
Part Name*: GASKET, VALVE PLATE

| Contained Substances | HW/SW Element Realization | Alt Part | Part As Designed Parts List Data | Task Rqmt Target | Change Request Target | Subtask Target |
|----------------------|---------------------------|----------|----------------------------------|------------------|-----------------------|----------------|
| | | | | | | |

| Definition | SW Parts | HW Part Design Data | HW Part Support Data | Security Assignment | Maturity Class | HW Part Operational A |
|------------|----------|---------------------|----------------------|---------------------|----------------|-----------------------|
| | | | | | | |

Part Special Handling Rqmt
Part Obs Risk Assessment
Part Demilitarization Class

Primitive Information for Part ID: IdentifierMultiple

| Primary Field | ID* | Classification | Set by Organization |
|---------------|-------------|----------------------------|---------------------|
| | OSDA500153 | PNO (SX001G:partNumber) | 10855 |
| | OSDA500153A | OEM (SX001G:oemPartNumber) | 00345 |

OSDA500153

OK Cancel Help

```

- <xsd:simpleType name="partIdentifierClassValues">
- <xsd:restriction base="xsd:string">
- <xsd:enumeration value="CPNO">
- <xsd:annotation>
  <xsd:appinfo>SX001G:customerPartNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
- <xsd:enumeration value="OEM">
- <xsd:annotation>
  <xsd:appinfo>SX001G:oemPartNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
- <xsd:enumeration value="PNO">
- <xsd:annotation>
  <xsd:appinfo>SX001G:partNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
- <xsd:enumeration value="SPNO">
- <xsd:annotation>
  <xsd:appinfo>SX001G:supplierPartNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
- <xsd:enumeration value="REF">
- <xsd:annotation>
  <xsd:appinfo>SX001G:referencePartNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
- <xsd:enumeration value="NSN">
- <xsd:annotation>
  <xsd:appinfo>SX001G:natoStockNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
- <xsd:enumeration value="STD">
+ <xsd:annotation>
</xsd:annotation>
</xsd:enumeration>
</xsd:restriction>
</xsd:simpleType>

```

```

- <xsd:simpleType name="partIdentifierClassValues">
- <xsd:restriction base="xsd:string">
- <xsd:enumeration value="PNO">
- <xsd:annotation>
  <xsd:appinfo>SX001G:partNumber</xsd:appinfo>
</xsd:annotation>
</xsd:enumeration>
</xsd:restriction>
</xsd:simpleType>

```

S 5 S2000M_PART: Part Definition Identification (Database: MPAV_SLIC) (Unlocked)

File Edit View Screens Tools Navigator Help

Part ID: OSDA500153
Part Name*: GASKET, VALVE PLATE

| Commerce Data | NATO Stock Number | Contained Parts | Container Parts |
|---------------|-------------------|-----------------|-----------------|
| | | | |

| Definition | Design Data | Support Data |
|------------|-------------|--------------|
| | | |

Part Special Handling Rqmt
Part Obs Risk Assessment
Part Type*: HW:Hardware

Primitive Information for Part ID: IdentifierMultiple

| Primary Field | ID* | Classification | Set by Organization |
|---------------|-------------|----------------------------|---------------------|
| | OSDA500153 | PNO (SX001G:partNumber) | 10855 |
| | OSDA500153A | OEM (SX001G:oemPartNumber) | 00345 |

OSDA500153

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Maintenance Task and Initial Provisioning data supporting S1000D DM generation

- **IPD DM generation from S2000M source data:**
 - All S1000D data modules require a data module code
 - S2000M does not have a data module code defined in it's schema; S3000L does have a document of type "Data Module" defined
 - An S3000L document may be classified as a data module, therefore it makes sense to use the S3000L document of data module type as the data module code for the S1000D IPD data module generated from the S2000M source data.
- **Procedural DM generation from S3000L source data:**
 - Information Control Numbers (ICNs) may be referenced in to S1000D Procedural data modules
 - S3000L does not have an ICN defined in it's schema; ICNs are defined in the S2000M schema
 - An S2000M ICN may be referenced into an S3000L subtask description to support the generation the S1000D data module.

IPD DM generation from S2000M and S3000L source data

S 1 S2000M_IPD: IPD Data Module Code (Database: MPAV_SLIC) (Unlocked)

File Edit View Screens Tools Navigator Help

Data Module Code (DMC)

Document ID MPAV-AAA-A20-21-0000-00A-941A-A

Data Module Info Name Illustrated Parts Data

Information Code 941: SX001G: IllustratedPartsData

Document Issue ID

Figure

S2000M Figure Identifier Figure 01

Fig. No. 01

Figure Name Front Wheel Assembly

IPD Figure No Variant A

IPD Figure Title Front Wheel Assembly

IPD Figure Type

Provisioning Project Identifier (IPP) MPAV_IPPN

Provisioning Project Subject (IPS)

Language Code

Illustrations | **IPD Parts List**

| Figure Item Identifier (CSN) | Figure Item Description (DFL) | Figure Item Indenture Level (IND) | Figure Item Sequence Number (ISN) | Part ID | Part Name | Figure Item ILS Reference (ILS) |
|------------------------------|-------------------------------|-----------------------------------|-----------------------------------|--------------|-------------------|---------------------------------|
| A2021000001A004A | Tire Rim | | 200A | 976523410216 | RIM, TIRE | |
| A2021000001A001A | Wheel Retainer | | 200A | 345997566021 | RETAINER, WHEEL | |
| A2021000001A003A | Spokes | | 200A | 976523410208 | SPOKES | |
| A2021000001A000A | Front Wheel Assembly | | 100A | 345997565070 | WHEEL ASSY, FRONT | |
| A2021000001A002A | Spoke Adjuster | | 200A | 976523410204 | ADJUSTERS, SPOKE | |
| A2021000001A005A | Inner Tube | | 200A | 976523410117 | INNER TUBE | |

S3000L_DOCUMENT: Document Identification (Database: MPAV_SLIC)

File Edit View Screens Tools Navigator Help

Document ID MPAV-AAA-A20-21-0000-00A-941A-A

Document Type

Document Title

Data Module Info Name Illustrated Parts Data

Document Location

EXT PM DM Type* DM:Data Module

Information Code 941: SX001G: IllustratedPartsData

Document Issue ID* **Date**

Example of an S3000L document used as a DMC for an S1000D IPD DM sourced from S2000M data

Procedural DM generation from S3000L and S2000M source data

7 CC07: Sequential Subtask Description (Database: S1000DAUTO)

File Edit View Screens Tools Navigator Help

EIAC MPAV LCN AAEUIQ ALC 00

LCN Type P: PHYSICAL LCN Nomen. FRONT TIRE

Task Code GG0AAAA Task ID INSTALL TIRE

Subtask No. 020 Subtask ID ATTACH NEW TIRE TO WHEEL

Extended Subtask ID

Task Reference No Subtask Reference No

Seq. Sub. Desc. [CC07]

bead onto the rim around the wheel. Update

Step #6

With a few inches of bead left to pop onto the rim, the tire will resist. Let all the air out. Crouch and rest the wheel on your knee to have something to push against. Now, hold the bead in place with one hand and with your stronger hand, push down to roll the stubborn section onto the rim with the heel of your hand. Install Tire

If Loctite, Adhesive Threadlocker, Updated (8256000) is required for any step, please note that it is a hazardous material. Use solvent to clean excess loctite from surface.

MPAV-AAA-A20-21-0000-00A-941A-A

| Reference Index | Doc. ID | Originator Code | Issue Number | Security Classification |
|-----------------|------------------------------|-----------------|--------------|-------------------------|
| 1 | MPAV-AAA-000000000-G-00016-A | 0H7D0 | 001 | 01 |

Select an ICN

| ICN | ICN Title | ICN Descrip... | Caption |
|---|---------------------------------|----------------|-----------------|
| MPAV-AAA-000000000-G-0H7D0-00010-A-01-2 | Chemical Burn Placard Image | | |
| MPAV-AAA-000000000-G-0H7D0-00012-A-01-2 | Explosion Hazard Placard Image | | |
| MPAV-AAA-000000000-G-0H7D0-00013-A-01-2 | Fire Hazard Placard Image | | |
| MPAV-AAA-000000000-G-0H7D0-00015-A-01-2 | Poison Hazard Placard Image | | |
| MPAV-AAA-000000000-G-0H7D0-00016-A-01-2 | Ingested Poison Hazard Placa... | | |
| MPAV-AAA-000000000-G-0H7D0-00019-A-01-2 | No Touch Placard Image | | |
| MPAV-AAA-11111-G-00010-A-01-6 | Headset Image | | Handlebar Image |
| MPAV-AAA-DA00000-0-U8025-00504-A-04-1 | | | |
| MPAV-AAA-DA00000-0-U8025-00504-B-04-1 | | | |
| MPAV-AAA-DA10000-0-U8025-00514-A-04-1 | Front Brake Lever | | |
| MPAV-AAA-DA32300-0-U8025-00514-A-04-1 | Front Brake Lever, incorrect | | |
| MPAV-LX2-11111-G-00095-A-01-6 | Front Wheel Assembly | | |
| S1000DBIKE-AAA-DA00000-0-U8025-00504-A... | | | |
| S1000DBIKE-AAA-DA00000-0-U8025-00504-B... | | | |
| TEST-A78-000000000-G-4XB60-00010-A-01-2 | Chemical Burn Placard Image | | |
| TEST-A78-000000000-G-4XB60-00012-A-01-2 | Explosion Hazard Placard Image | | |

OK Cancel

Example of an ICN being referenced into a subtask.

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Thank you
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Questions?