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ADS is the Premier Trade Organisation for companies in the UK Aerospace, Defence, Security and Space Sectors.

The "X" Specifications suite of the S-Series

Introduction and a Use Case

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Agenda

- Scope of the presentation
- Purpose of the “X”-Specifications suite
- Use Case / Example
- Principle view
- Issue plan of the “X”-Specifications suite – Current status
- Questions & Answers

Scope of the presentation

- The **presentation will inform** about the concept concerning the "X"-specifications suite and **how the "X"-Specifications interact**.
- A **data element example** is used which **will explain how the technical data**, which will be available in an Interactive Electronic Technical Publication (IETP) for the end user, **are interlinked between S1000D, S2000M, S3000L and S4000P**.

The Specifications Chairs are available on stage and present the data input requirements from their specific specification perspective.

- Joakim Lundqvist → S1000X (from an S1000D perspective)
- Carlos Lafuente → S2000X (from an S2000M perspective)
- Peter Eichmüller → S3000X (from an S3000L perspective)
- Stefan Schiele → S4000X (from an S4000P perspective)

Use Case - Example



FRONT BRAKE TUBE

Partnumber (CP-001)

Manufacturer Code (KZ888)

Example:

In an Interactive Electronic Technical Publication (IETP) a replace procedure for the FRONT BRAKE TUBE based on a dedicated Preventive Maintenance Task Requirement [PMTR] (eg, after 2 years) is included. In this context the Partnumber and Manufacturer Code information is required in the IETP.

→ Where - in detail - does the information come from?

S1000X - The Data Input specification for S1000D

Partnumber and Manufacturer Code



Where is the source for this data?

Mapping to the S2000M source data (S1000D IPD schema vs. S2000M)

Partnumber attribute in S1000D IPD schema including a target example

Detailed path to the data source in S2000M schema

No.	Target: Functionality area and Detail/Path	Target example (XML fragment only)	Source data (XML fragment only)
3.9.5.2.7_2.5_5@1	Part number value (PNR) content/ illustratedPartsCatalog/ catalogSeqNumber/ itemSeqNumber/partRef @partNumberValue	<partRef partNumberValue="CP-001" />	partNumber (⇒ PNR): <locipd>...<msgContent><cas>...<figCsn>... <pidIsn><pidRef><pid><id>CP-001</id> </pid>...</pidRef></pidIsn></figCsn></ca s></msgContent></locipd>
3.9.5.2.7_2.5_5@2	Manufacturer code value (MFC) content/ illustratedPartsCatalog/ catalogSeqNumber/ itemSeqNumber/partRef @manufacturerCodeValue	<partRef manufacturerCodeValue="KZ888" />	Manufacturer (⇒ MFC): <locipd>...<msgContent><cas>...<figCsn>... <pidIsn><pidRef><pid>...<setBy><orgId> <id>KZ888</id></orgId></setBy></pid> </pidRef></pidIsn></figCsn></cas> </msgContent></locipd>

S2000X - The Data Input specification for S2000M

Partnumber and Manufacturer Code



Where is the source for this data?

Mapping to the S3000L source data (S2000M XML schema vs. S3000L)

Partnumber and manufacturer attribute
in S2000M

Detailed path to the data
source in S3000L XML schema

No.	Target: Functionality area (UoF) and path	Target example (XML fragment only)	Source data (XML fragment only)
tbd in S2000X	UoF S2000M Part Definition Data: HardwarePartAsDesigned/partIdentifier (PID)	partNumber (⇒ PNR): <pre><locipd>...<msgContent><cas>...<figCsn>... <pidIsn><pidRef><pid><id>CP-001</id> </pid>...</pidRef></pidIsn></figCsn></cas> ></msgContent></locipd></pre>	partIdentifier (⇒ partId): <pre><lsaDataSet><msgContent>...<parts> <hwPart><partRef><partId> <id>CP-001</id></partId></partRef> </hwPart></parts>...</msgContent> </lsaDataSet></pre>
tbd in S2000X	UoF S2000M Part Definition Data: Manufacturer (⇒ MFC) : HardwarePartAsDesigned/part Identifier (PID)/SetByOrganization/organizationIdentifier	Manufacturer (⇒ MFC): <pre><locipd>...<msgContent><cas>...<figCsn>... <pidIsn><pidRef><pid>...<setBy><orgId> <id>KZ888</id></orgId></setBy></pid> </pidRef></pidIsn></figCsn></cas> </msgContent></locipd></pre>	Manufacturer (organization ⇒ orgId): <pre><lsaDataSet><msgContent>...<parts> <hwPart><partRef><partId><setBy> <orgId><id>KZ888</id></orgId> </setBy></partId></partRef> </hwPart>></parts>...</msgContent> </lsaDataSet></pre>

S3000X - The Data Input specification for S3000L

Partnumber and Manufacturer Code



Where is the source for this data?

Mapping to the S4000P source data (S3000L XML schema vs. S4000P)

Partnumber and manufacturer attribute
in S3000L

Detailed path to the data source
in S4000P XML schema*

*under development

No.	Target: Functionality area (UoF) and path	Target example (XML fragment only)	Source data (XML fragment only)
tbd in S3000X	UoF S3000L Part Definition: PartAsDesigned/partIdentifier	partIdentifier (⇒ partId): <pre><lsaDataSet><msgContent>...<parts> <hwPart><partRef><partId> <id>CP-001</id></partId></partRef> </hwPart></parts>...</msgContent> </lsaDataSet></pre>	partIdentifier (⇒ partId): <pre><pmaDataSet><msgContent>...<parts> <hwPart><partRef><partId> <id>CP-001</id></partId></partRef> </hwPart></parts>...</msgContent> </pmaDataSet></pre>
tbd in S3000X	UoF S3000L Part Definition: Manufacturer (Organization) PartAsDesigned/partIdentifier/SetByOrganization/organizationIdentifier	Manufacturer (organization ⇒ orgId): <pre><lsaDataSet><msgContent>...<parts> <hwPart><partRef><partId><setBy> <orgId><id>KZ888</id></orgId> </setBy></partId></partRef> </hwPart>></parts>...</msgContent> </lsaDataSet></pre>	Manufacturer (organization ⇒ orgId): <pre><pmaDataSet><msgContent>...<parts> <hwPart><partRef><partId><setBy> <orgId><id>KZ888</id></orgId> </setBy></partId></partRef> </hwPart>></parts>...</msgContent> </pmaDataSet></pre>

S4000X - The Data Input specification for S4000P

Partnumber and Manufacturer Code



Where is the source for this data?

Mapping to the external source data (S4000P XML schema vs. Engineering)

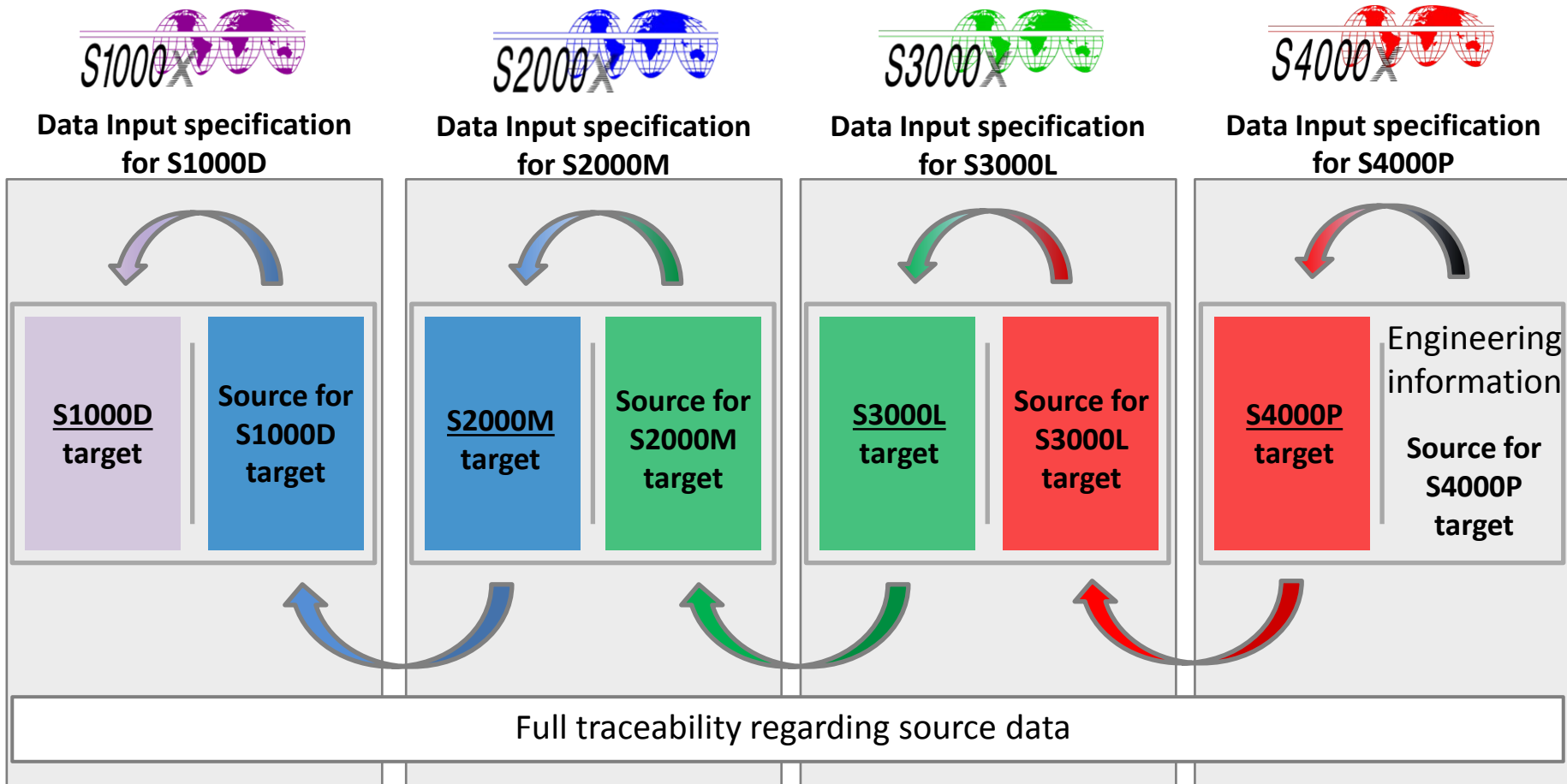
Partnumber and manufacturer attribute
in S4000P

data from external sources

No.	Target: Functionality area (UoF) and path	Target example (XML fragment only)	Source data from Engineering
tbd in S4000X	<p>UoF S4000P Part Definition*:</p> <p>PartAsDesigned/partIdentifier</p> <p><i>*UML data model of S4000P under development, Product breakdown will be equal to S3000L</i></p>	<p>partIdentifier (⇒ partId):</p> <pre><pmaDataSet><msgContent>...<parts> <hwPart><partRef><partId> <id>CP-001</id></partId></partRef> </hwPart></parts>...</msgContent> </pmaDataSet></pre>	<p>Part Identifier:</p> <p>e.g. PartNumber from Drawings, Engineering Bill of Material (EBOM) or other sources, e.g. OEM part number</p>
tbd in S4000X	<p>UoF S4000P Part Definition:</p> <p>Manufacturer (Organization)</p> <p>PartAsDesigned/partIdentifier/SetByOrganization/organizationIdentifier</p>	<p>Manufacturer (organization ⇒ orgId):</p> <pre><pmaDataSet><msgContent>...<parts> <hwPart><partRef><partId><setBy> <orgId><id>KZ888</id></orgId> </setBy></partId></partRef> </hwPart>></parts>...</msgContent> </pmaDataSet></pre>	<p>Manufacturer:</p> <p>e.g. Manufacturer Identifier from Drawings, Engineering Bill of Material (EBOM) or other sources.</p>

Principle view

The following graphic describes the principle view how the data are interlinked between the specifications

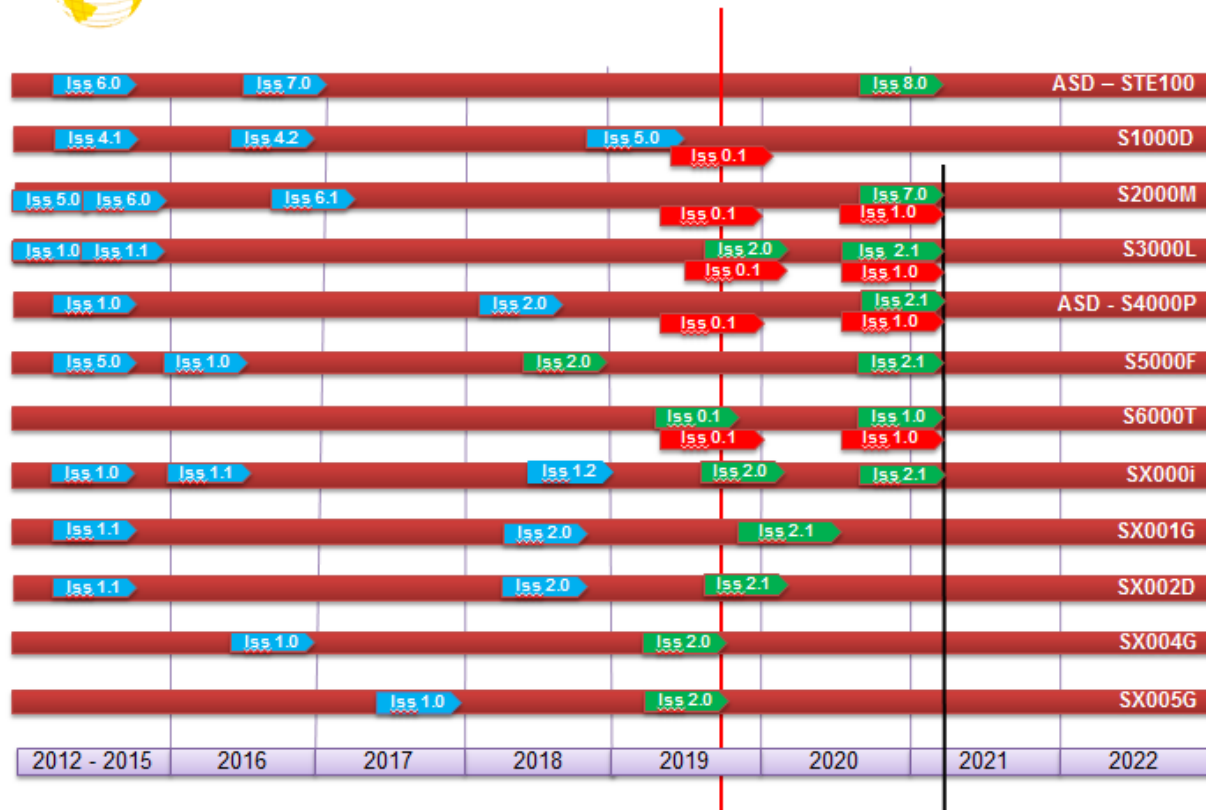


Issue Plan of the "X"-Specifications – Current status

Latest Spec Issue Plan (agreed in 129. ASD PSSG in Rome, 02.10.2019)



The S-Series ILS specifications - Issue plan



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Planned Input data Spec's
ISS 0.0X Issued
ISS 1.0 Planned

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Thank you

for your attention!

Questions?



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S2000M Chair



Peter Eichmüller
S3000L Vice Chair



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