



Audrey FAUCONNIER / Data definition manager - Airbus Customer Services





- Presentation of A350 XWB program and technical data
- Use of S1000D Issue 4.1 as data exchange standard
- Information sets definition
- Supplier data integration
- Publication: access to data modules via A350 XWB breakdown
- Conclusion Main challenges



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A350>X

Extended enterprise



One complete, market-matching family

A350-1000

Derived from -900 for maximum commonality Increased design weight, thrust, payload &

- mid 2017 Entry Into Service (EIS)

Optimum baseline configuration Intensive testing in Airbus & Partners

- MSN 1 in Final Assembly Line • mid 2014 - Entry Into Service (EIS)
 - Adapted to meet growing market expectations

Development pace adapted

- mid 2016 Entry Into Servio



















ADAMS RITE: Cockpit Door Module AERNNOVA: HTP Box & Elevator

B/E AEROSPACE: Oxygen system / Galleys / Gains

ALESTIS: Section 19.1, Belly Fairing AOA/LGG: Water Waste / Heating System

COMPOSITE INDUSTRIES: Cockpit Furnishing DAHER: Air Inlet Outer Surface

DIEHL AIR CABIN: Airducts, Core illumination,

GE Aviation: Trailing Edge Details/Trailing Edge

ems, APU, FMS, AESS

5/21 & 16/19

corders System

o and Cockpit Door Surveillance

Floor2Floor, Crew Rest Compartments DIEHL AEROSPACE: Slat/Flap Control Computer/DSCS

GOODRICH AEROSTRUCTURE: Nacelle system GOODRICH: Probes, Ice Detectors, Wheels & Brakes,

AMSAFE BRIDPORT: Cargo Nets

BELAIRBUS: LED

GKN: FTE Assembly





















FINNAIR







































A350 XWB first flight





A350 XWB technical data

Key figures for Technical Data (Line Maintenance)



- 6.000 Maintenance Procedures
- 12.000 Trouble-Shooting Procedures for 36.000 Faults
- 7.000 Schematics & Wiring Diagrams for 80.000 Wires



8.500 IPD figures for 120.000 items



1.000 Descriptions / Damages / Repair Procedures



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Rationale for S1000D

Airbus strategy : Stick to Aviation Industry Standards





1) Data organisation & structure

Access to Business data instead of Manuals Focus on customer processes

2) Enhanced content & Data access

Data consistency improved and redundancy reduced thanks to CIR data modules

New data access for Airbus viewer

3) Data exchange with Extended Enterprise

Supplier data smooth integration

4) Data exchange & Delivery to Airlines

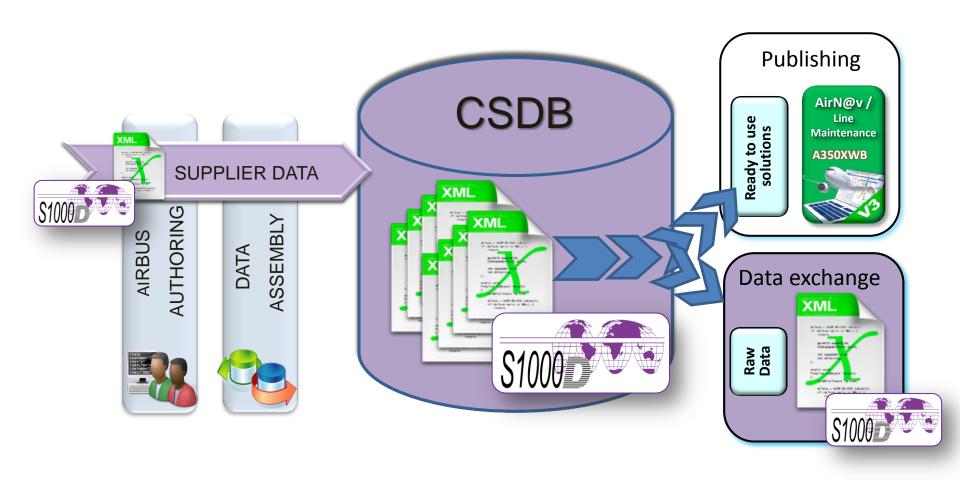
XML technology for raw data delivery instead of SGML format

Modularity

Opportunity to improve data definition and access



Scope of Standard use



S1000D issue 4.1 used as a data exchange standard



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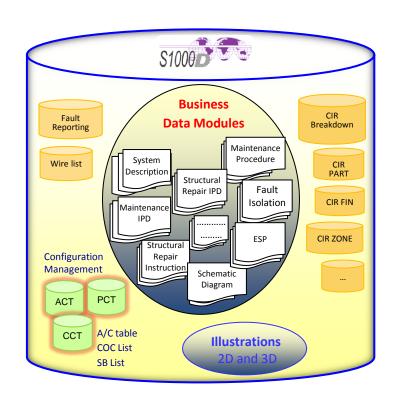
Information sets definition

A350 XWB Line Maintenance CSDB

Business Data Modules

Supporting Line
 Maintenance process

System Descriptions
Maintenance procedures
Fault Isolation
Maintenance IPD
Structural Repair IPD
Non Destructive Testing
Structural Repair Instructions
Wiring Diagrams
Schematic Diagrams
Electrical Standard Practices
General information



Repositories

- Transverse information used by Business Data Modules
- Access and navigation means

CIR Breakdown
CIR FIN and CIR CB
CIR ZONE and CIR ACCESS
CIR Warning and Caution (W/C)
CIR PART
CIR ENTERPRISE

Fault Reporting and Wire List

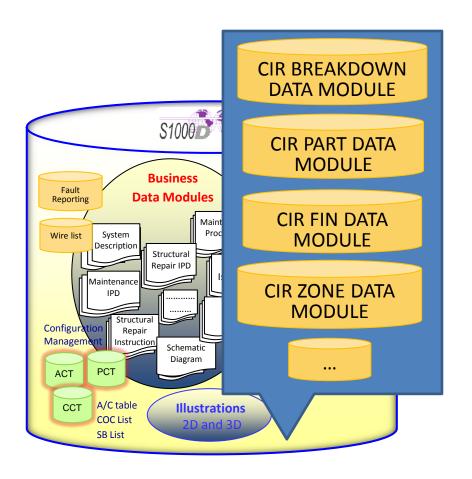
Configuration data

Applicability Cross Reference Table
Product Cross Reference Table
Condition Cross Reference Table

Data packages in line with customer processes



Use of various CIR data modules



- Common Information Repositories data modules
 - New deliverables
 - Database-oriented
- Simplified access
 - FIN (Functional Item Number) / EIN
 - Parts
- Easy handling & data exchange
 - Filtering, sorting, calculation
 - MIS / Inventory systems

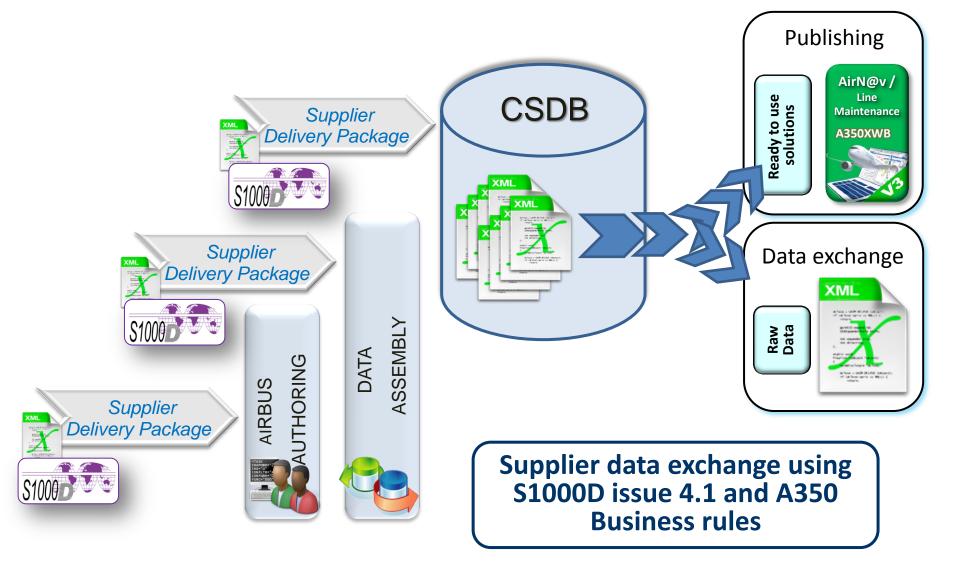
Reduce info redundancy & increase data consistency



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Supplier data integration





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A350 XWB Data accesses



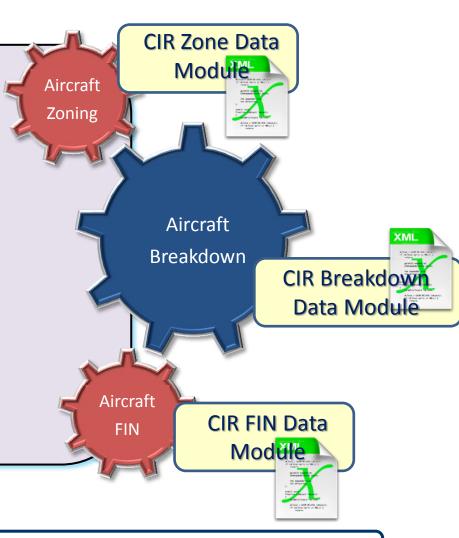
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AirN@v/
Line
Maintenance
A350XWB

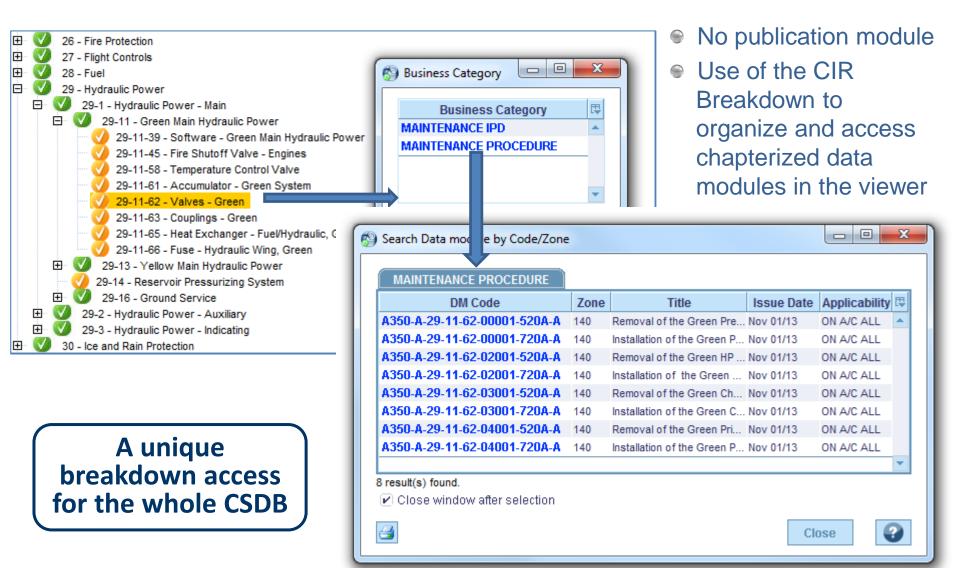
Fault Is
Mainten
Structo
Structo
Wiring
Schem
Electric
Genera



New way to navigate and access to Business Data



A350 XWB breakdown





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Main challenges

- Civil aviation competition market
 - Constantly evolving documentation following new aircraft features and customer needs
- ⇒ Need for a standard with fast evolution process
- ⇒ Need for upwards compatibility of data between standard issues
- Civil aviation data exchange
- ⇒ Change management Support our customers to handle the new standard