Aircraft Maintenance: from paperless to real-time smart data
Agenda

Airbus vision on Maintenance & Engineering data

From Monthly Revision to Real Time Technical Data

One Standard for all: S1000D

New data exchange model

Collaborative platform
Airbus vision on Maintenance & Engineering data
Aircraft Maintenance Instructions are not always that simple…
Aircraft Maintenance: from paperless to real-time smart media

**WHO?**

**WHEN?**

**WHAT?**

**WHICH AIRCRAFT?**

Aircraft Maintenance constraints
Use Case... feels just like home
Reconcile the unescapable reality of agile smart data with aircraft maintenance constraints:

- **Traceability** (Who? When? Which data?)
- **Configuration** (Which Aircraft?)
From Monthly Revision to Real Time Technical Data
Monthly revision

A350XWB and A380 *Instruction for Continued Airworthiness* updated every month

A320 Family, A330 and A340 Monthly Update planned for end 2018
Monthly revision

Advantages

- Data up to date for the aircraft delivery
- Data quickly updated with Customer feedback (e.g. Service Bulletin incorporation)
- Harmonization for all Airbus programs

Challenges

- Operators job card / task card update
- Local airworthiness authorities to be involved
Real Time Technical Data

airnavX: Airbus solution to consult and download Maintenance and Engineering data
Why S1000D

The standard for the digital world

- SGML
- Civil aviation only
- Niche market
- Manual oriented
- Maintenance mode

- XML
- Civil aviation, Defence and more
- Large tool market
- Modular
- Ongoing evolutions
Airbus is ready

• A350 XWB maintenance data is delivered in S1000D 4.2 only

• Airbus Service Bulletins are now authored in S1000D

• Airbus Legacy authoring and configuration management systems are converging to A350XWB S1000D based solution

• Airbus digital services are ready to unleash the power of S1000D
New data exchange model
What are the Part Number **allowed** to be installed on aircraft

- **As Flying/Actual**
- **YES!**
  - Which **Parts** can be installed on a given A/C at a given **Function position**?

- **NO!**
  - Which **Serialized part** is installed on a given A/C at a given **Function Position**?

**As Allowed/Allowable**
The delivery via WEB application

Download for automatic MIS update with Part information as per ATA Spec 2400

Part Number configuration check
Automatic **Service Bulletin** reporting

2017 Automated

**Airline system** → **Spec 2000** → **AirbusWorld**

- Complete data capture
- Quicker and regular transmission
- Full end-to-end traceability

**One-click** upload & **Zero** workload
On-line **collaborative platform** for sharing **smart media** for aircraft maintenance
Conclusion
- Data **customized** for the complete life cycle of the aircraft
- **Tailored** for end-users: what, when & where they need it
- **Fresh & accurate** data that quickly reaches the Customer
- **New technologies** to go the step beyond manuals…

…towards real-time smart data
Thank you