

ATA MEWG

ATA E-BUSINESS FORUM & S1000D User Forum



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Agenda

- 1. About MEWG**
- 2. Why**
- 3. Mission**
- 4. Goal**
- 5. Benefits**
- 6. Challenges**
- 7. Swiss-AS**

What is MEWG?

» **ATA MEWG** ([Maintenance Execution Working Group](#))

» **The Role**

- Create and maintain new data exchange specifications standard for
 - Maintenance execution of routine and non-routine aircraft maintenance including electronic logbook & scheduled maintenance data.

» **For Whom**

- For line, overnight, base and heavy maintenance execution
- Electronic logbook application providers (airplane manufacturers & third party software companies)
- Aviation maintenance & engineering information system providers.

» **By Whom**

- OEMs, MROs, Airlines, MIS providers, ELB providers,

MEWG

History

» **Why did the group get formed?**

- The Maintenance Execution Working Group (MEWG) formed as a successor group to the previous ATA Electronic Logbook Project Team (ELPT)
- Expanded focus from just the logbook to more general line & base maintenance processes and data exchange

» **Related Industry Policy & Regulatory Efforts**

1. ICAO EMR (Electronic Maintenance Records) policy draft
2. IATA Paperless Operations
3. FAA AC 120-78 Electronic Recordkeeping & Signature

WHY?



What is the ATA MEWG group all about?

**YOUR LIPS
KEEP MOVING**

**...BUT ALL I HEAR
IS
“BLAH, BLAH,**

- Create and maintain new data exchange standard for maintenance execution data.

Why?

What can the standard do?

- Maintenance execution data of routine and non-routine aircraft maintenance
- Electronic logbook &
- Scheduled maintenance data

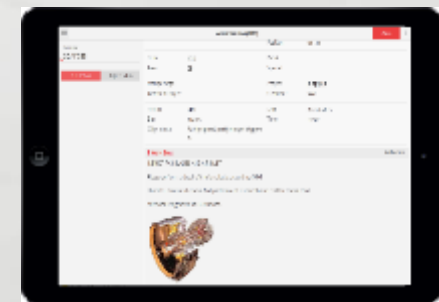
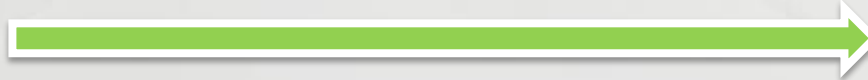
Whyyy



Why?

The Mission

The way to Paperless Maintenance



Goal of the MEWVG

» ATA MEWVG Mission statement

The ATA e-Business Maintenance Execution Working Group is developing a new, detailed specification to allow for:

- XML exchange of Maintenance Work Scope / Work Package / Task data between Airlines & Maintenance Providers as well as OEMs
- Receive back maintenance completion records.

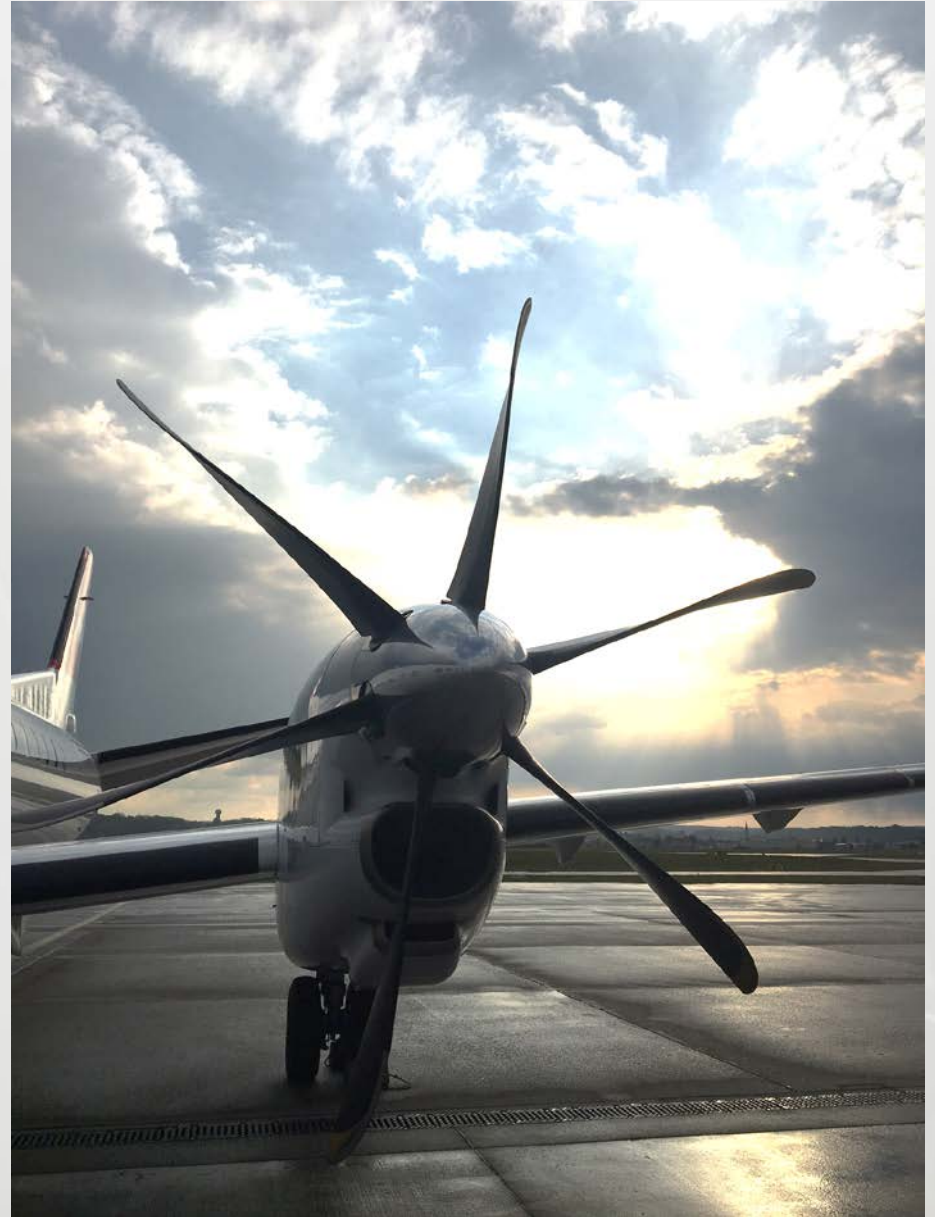
This presentation will provide an update on the group's progress and Highlight how operators and MRO's can gain efficiency by understanding and adopting this industry standard.



MEWG

Benefits

- » **Why is the new standard needed?**
 1. Increasing volume of contracted maintenance checks (High quality records can mean a higher value for the aircraft)
 2. MRO's would like:
Ability to see the originating task/requirements (not contained inside a WO)



MEWG

Benefits

» Why is the new standard needed?

3. MRO's would like to use:
Own work templates (pre-created/pre-estimated, etc), in relation to the Operator's task reference (reference to AMM or MPD), instead of receiving the WO Description (WO description does not require a complete description of the work, with effort estimation and required resources.
4. Inefficient process used today to process airline work scope information into a MRO executable work package (re-entry, translation, local task cards, etc.)

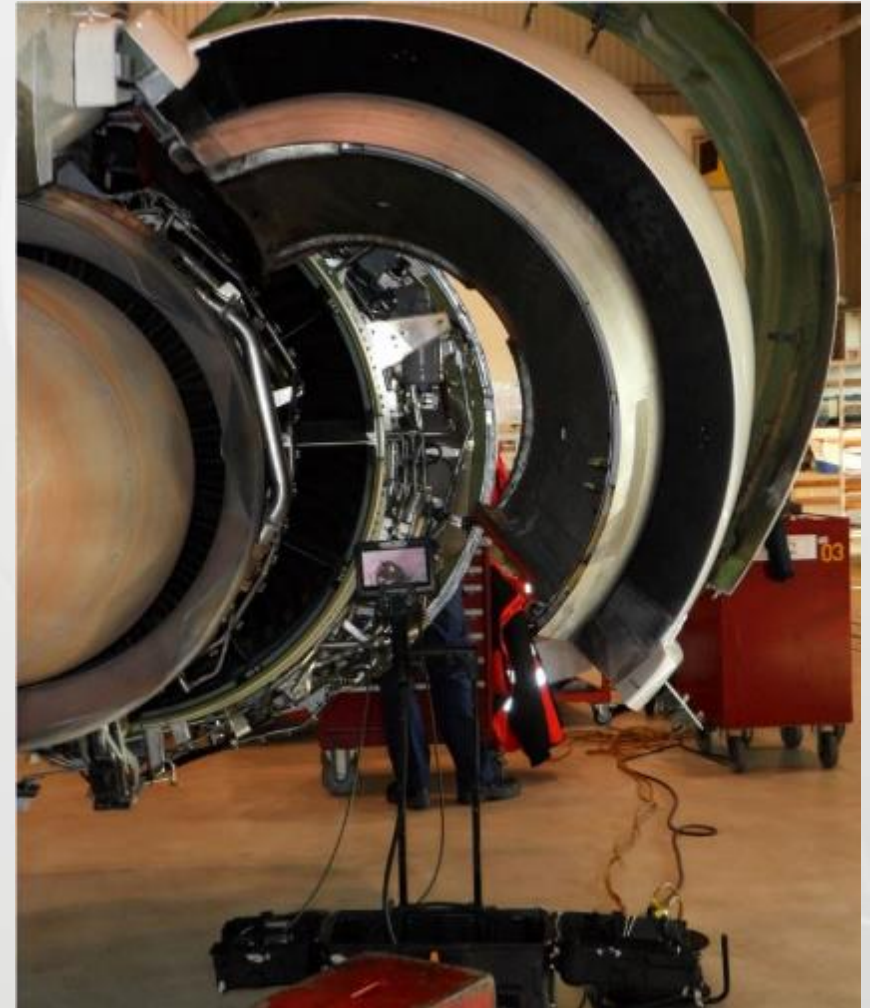


MEWG

Benefits

» Why is the new standard needed?

5. Support for mobile maintenance where tasks can be delivered electronically and actions taken and resources used are entered in mobile clients
6. Flexibility of the standard to adapt to different stakeholders: MRO, Operator, OEM, etc. Progressive task completion reporting.



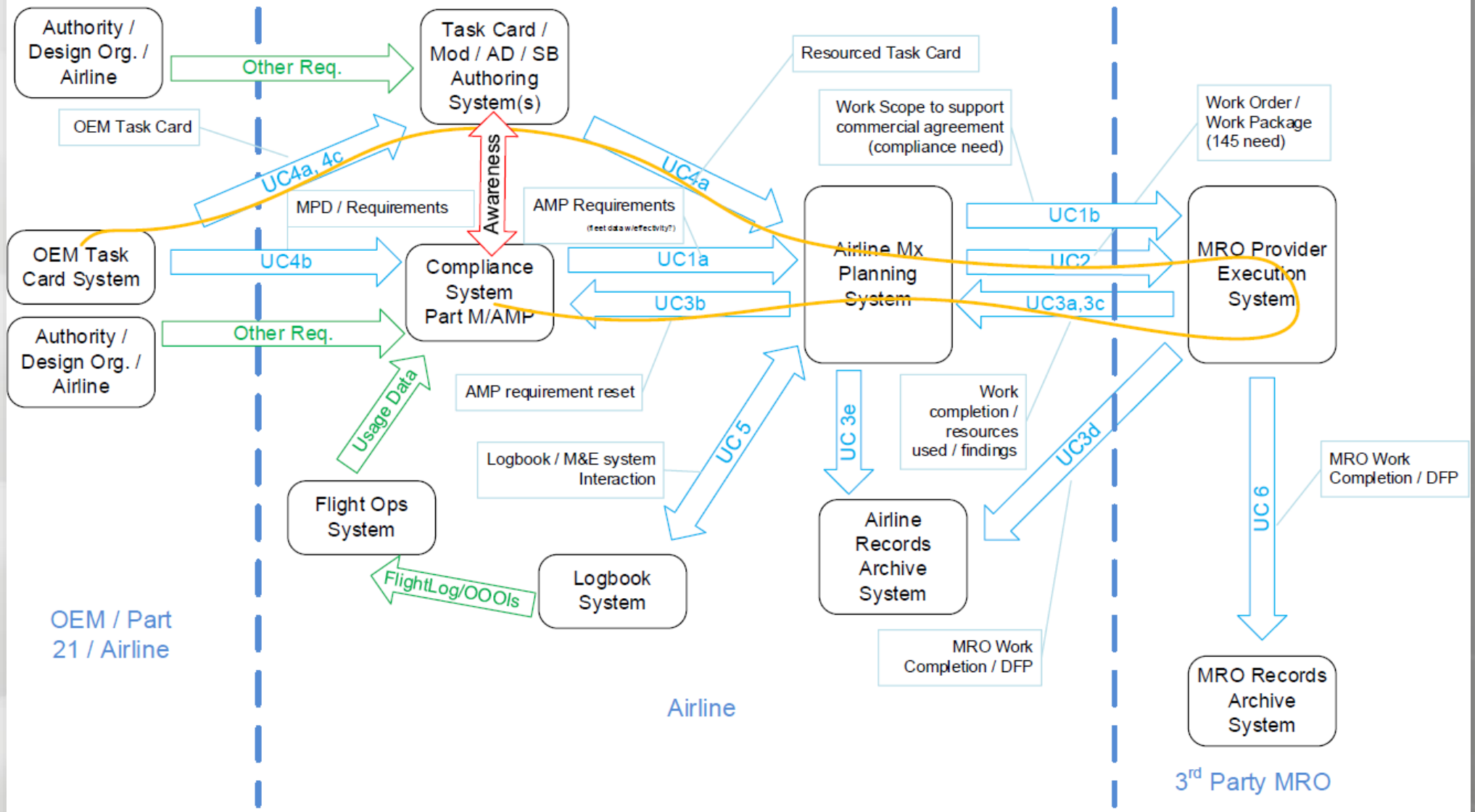
MEWG Challenges

As MRO, As Operator, As MIS...

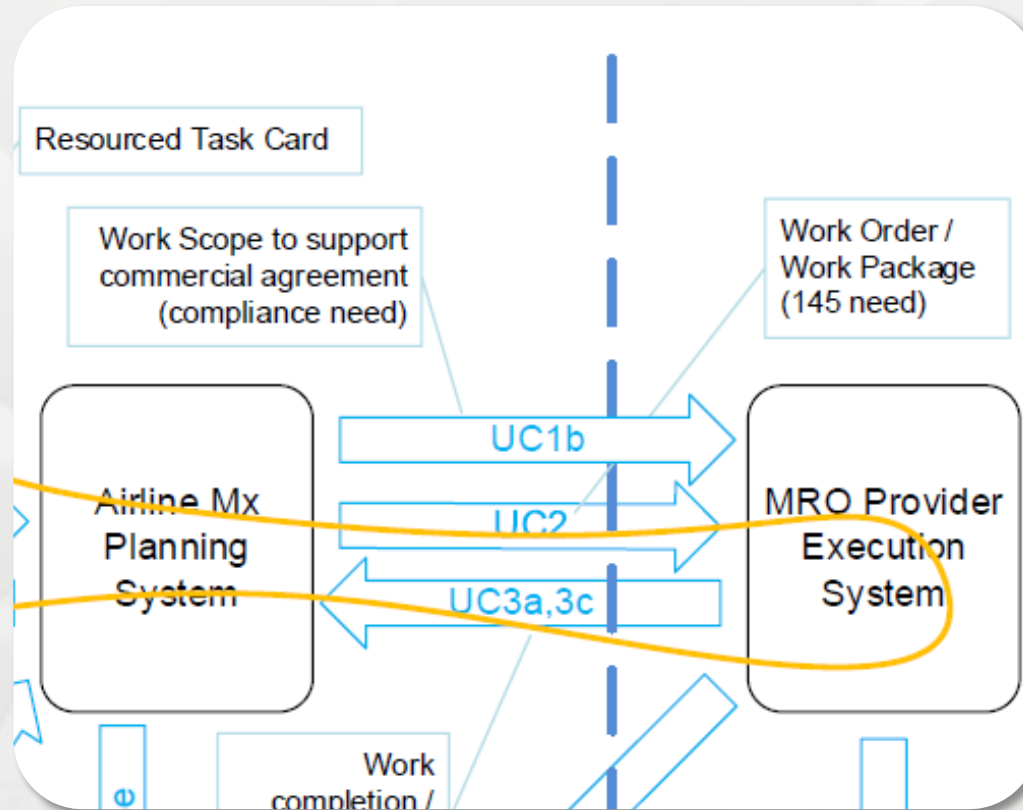
1. Converting from paper records
2. Operator in system A and MRO in system B
3. Different requirements
4. Different definitions
5. Terminology
6. Storage of Dirty Finger Prints (Crates and crates of paper)



Work Package Data Exchange: System Context Diagram



MEWG Overview Process



- The Golden Thread is not the “common path”
- It is the path through all the exchanges that the group wants to tackle first
- The separation between Compliance System and Airline Maintenance Planning System is rarely seen in the industry

MEWG Overview

Process – Golden Thread Scenario

Process of contracting for & executing a heavy maintenance check

1. OEM Task Card delivery
2. Airline Task authoring
3. Work Order/Work Package Generation
 - Task planning/Sequencing/Resourcing
4. Work Package accomplishment by MRO
5. Progressive Task completion reporting / parts & resources used / findings
6. AMP requirement reset

MEWG Overview

Use Cases

1. **Use Case 1:** AMP Requirements and Work Scope
2. **Use Case 2:** Executable Work Package
3. **Use Case 3:** Work Completion Record



Swiss-AS Point of View

M&E tool

» MIS provider

- MIS provider have several points of view
- Customers with all profiles: MRO and airline.
- This standard would fit all the structures (Single operator, multi-operator, specialized CAMO, 3rd party maintenance provider).



Swiss-AS Point of View

M&E tool

» Why does Swiss-AS support the standard?

1. C-check could have around 1000-2000 tasks

2. Emailed as



3. Manual process



4. Matching tasks/customer requirements from paper/pdf to existing work templates

5. Print work package

6. Report back (Complex and time consuming)



Swiss-AS Point of View

M&E tool

» **Why does Swiss-AS support the standard?**

- Reduced workload on the customer side
- Higher efficiency in the whole process
- Process will suit all customers, regardless their complexity
- Recurrent reported complexity of matching tasks/customer requirements from paper/pdf to existing work templates on the system

Swiss-AS Point of View

M&E tool

» **Why does Swiss-AS support the standard?**

- Because it supports our vision
- Our vision of supporting data structures of Single operator, multi-operator, specialized CAMO and 3rd party maintenance provider.
- The standard aims to incorporate all the use cases covering the Maintenance programs and their related items.



Strategy for ATA MEWG within Swiss-AS

» Proposed PoC Use Case [Phase 1]

New Interface with Transfer ATA Maintenance Execution (UC2 and UC3)

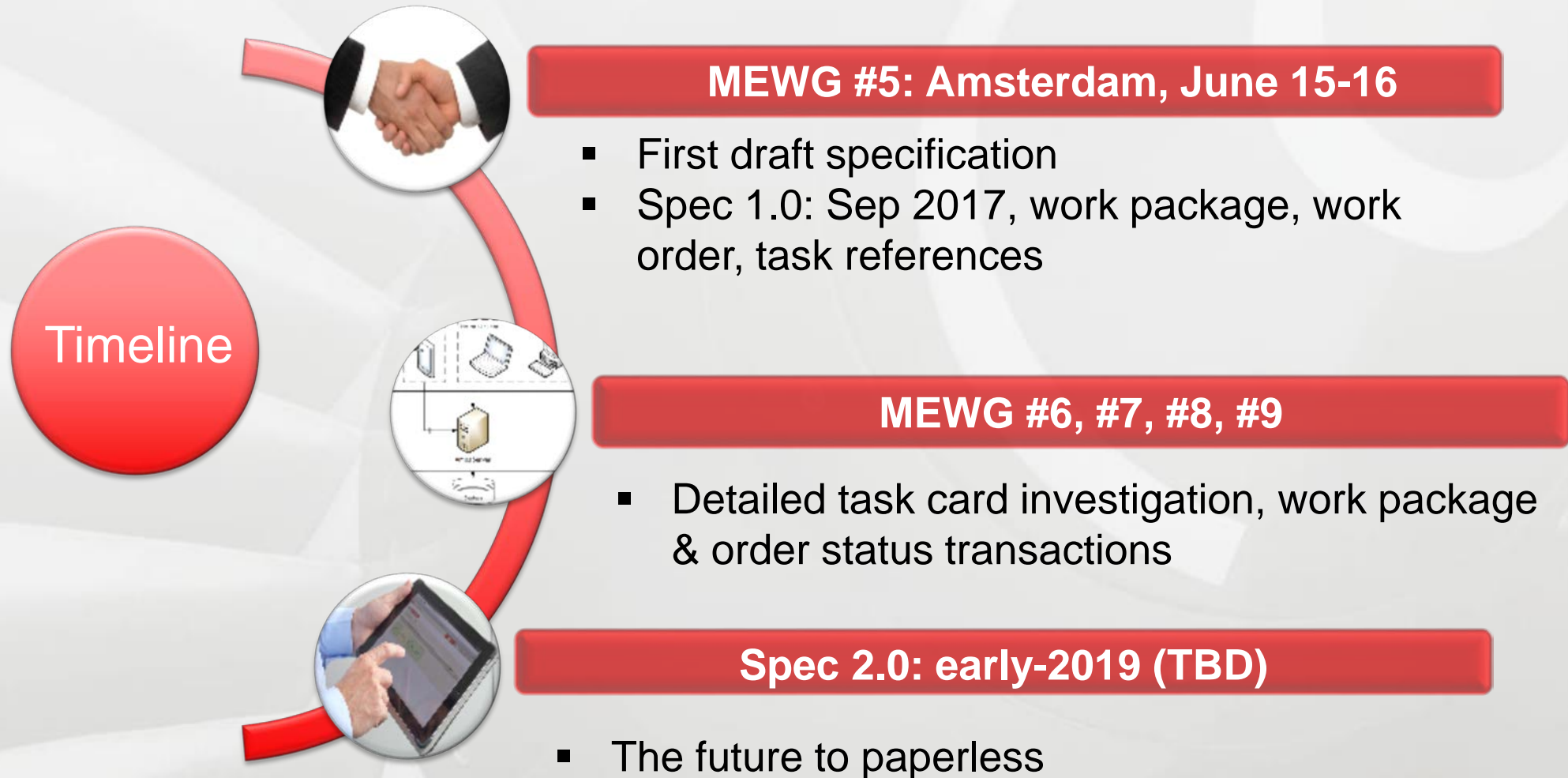
- Executable Work Package
- Work Completion Record

» Proposed PoC Use Case [Phase 2]

AMP Requirements/ Work Scope (UC1)

- Requirements Transfer from Compliance System to MRO Planning System (aka Work Scope).

MEWG work plan & timeline



Thank you

