



Host (on behalf of ASD):



Spanish Association for Defence, Security and Space Technology Companies (TEDAE)

A400M TID – Advance Copy & S1000D

Name of presenter:

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Rank/title of presenter:

A400M TID Operability Manager

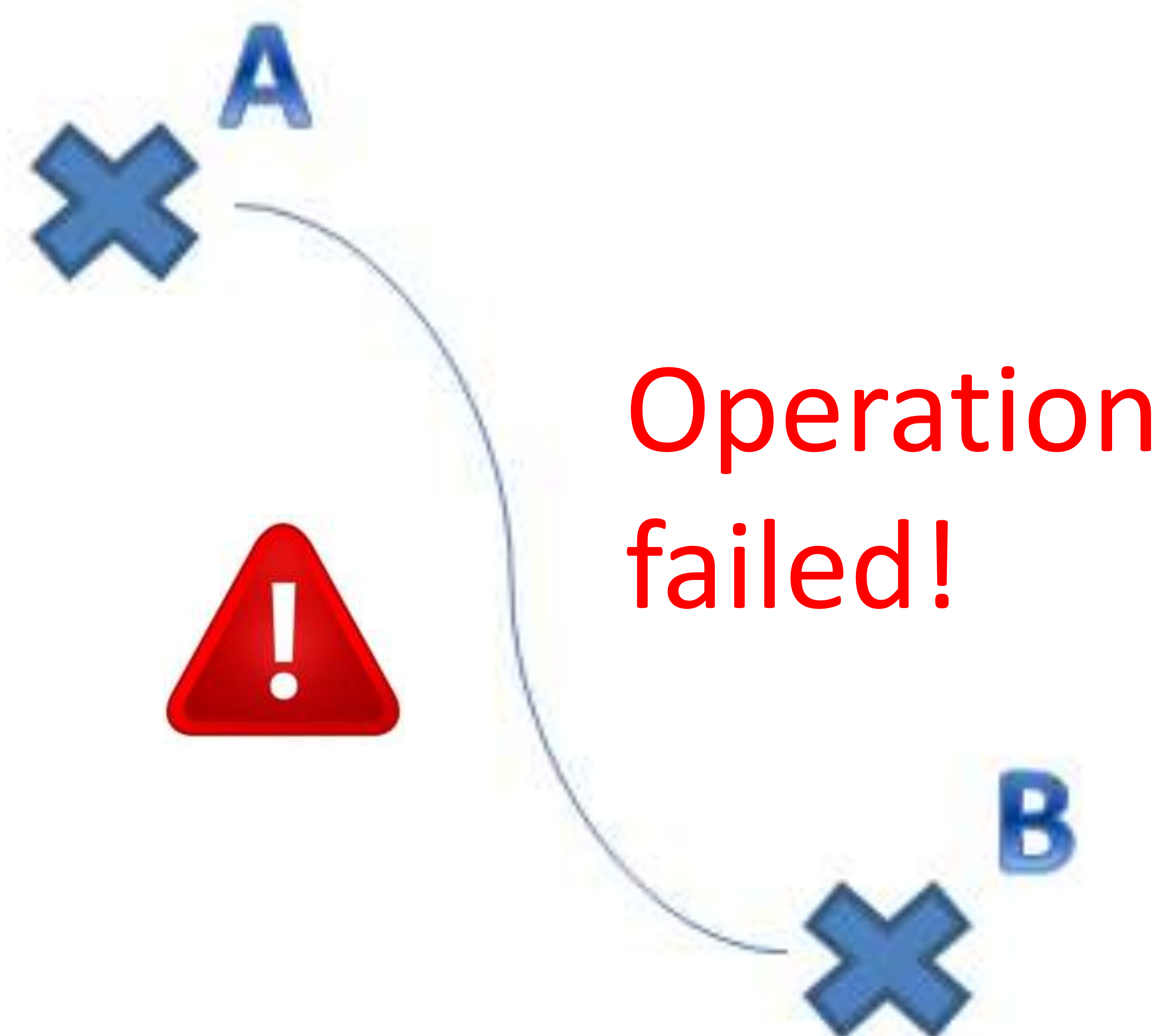
Company/organization:

Airbus Defence and Space / TASST

A400M TID – Advance Copy & S1000D



Recovery Plan: Advance Copy



A400M TID – Advance Copy & S1000D

- 1. Introduction: Why Advance Copy?**
2. Way-of-Working – AS IS: authoring
3. Way-of-Working – AS IS: traceability
4. Remark: operators / customers needs

A400M TID – Why Advance Copy?

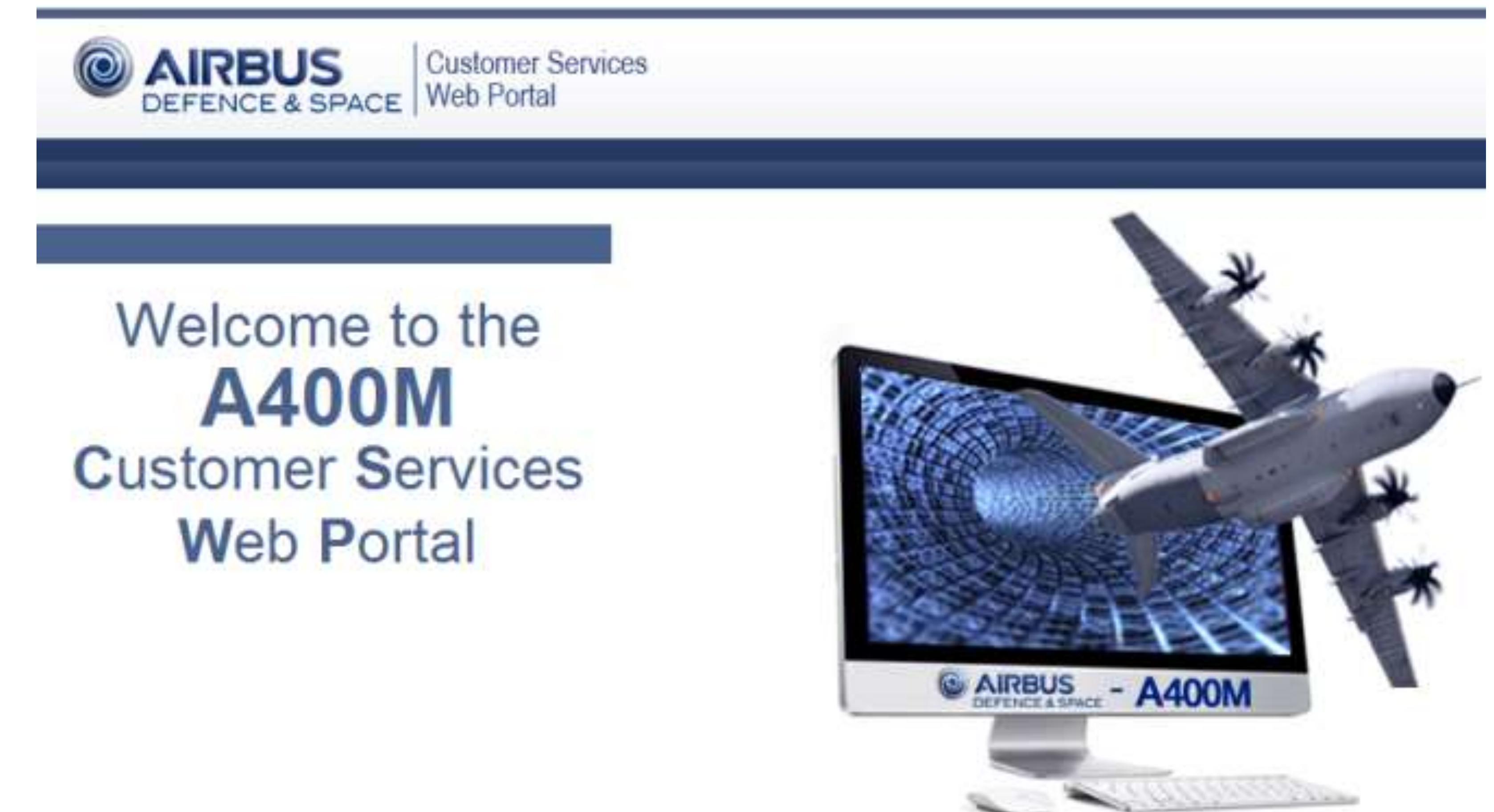
Engineering documentation (CSWP)

FOT, AOT, OIT, SB, etc.

Instructions or Repair Form (IRF)

Safety issues with impact on Technical Publications

Advance Copy



Common Source DataBase (CSDB) concept in S1000D spec. considers, among others, the following objectives:

- Support the technical publication process
- Support the *controlled authoring*



In Service Support

A400M TID – Why Advance Copy?

Topics affecting Safety

Topics affecting A/C Operability

- *Inclusion of alignment tests in critical systems of the aircraft.*
- *Inclusion of complex new tasks of alignment - test/operational/functional.*
- *Updates of warnings and cautions that could impact in an important way.*
- *DMs which prevent the maintenance of the aircraft or component, due to a missing procedure.*
- *Missing procedure for fault isolation of a critical failure.*
- *Inclusion of new ADL (Allowable Damage Limit).*
- *New data of intervals from the Structural Repair Inspection topics.*
- *Inclusion of a new Programmed Maintenance Task that has intervals shorter than the scheduled revision cycle of the TP.*



In Service Support

There is a need to publish/distribute technical publications between scheduled revisions and to cover this gap, Technical Information and Data (TID) community needs a method (how?) and an industry standard deliverable (what?).

A400M TID – Why Advance Copy?

To sum up... for topics affecting safety or A/C operability...

- An Advance Copy (AdvCo) is the delivery of a Data Module (DM) out of the Scheduled Revisions.
- This deliverable is provided in advance to the customers before a scheduled delivery of the DM.
- The updated information is included simultaneously in the TID Production Process, to be delivered in the next Scheduled Revision N or (N+1) depending on the authoring cut-off date of revision N when the AdvCo is sent.



In Service Support

Instructions for Continuous Airworthiness

This mechanism also allows a continuous ICAs traceability even working with a database which is released on a fixed-basis.

A400M TID – Why Advance Copy?



OPERATOR INDUSTRY	TID Support
AdvCo Committee	TID Expert
AdvCo Team	

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A400M TID – Advance Copy Authoring

1. Introduction: Why Advance Copy?
- 2. Way-of-Working – AS IS: authoring**
3. Way-of-Working – AS IS: traceability
4. Remark: operators / customers needs

A400M TID – Advance Copy Authoring

Advance Copy – Coding

S1000D 2.3.1 – Chap. 3.9.5.1 Inwork number (O)

The attribute inwork gives the “inwork” number of the unreleased data module. It can be used for monitoring and control of intermediate drafts within a project. The initial inwork number shall be set to the value "01", and shall be incremented with every change to the unreleased data module.

When work first starts on a data module, the issue number is set to the value "000", using the attribute issno, the attribute type is set to the value "new" and attribute inwork is set to the value "01". Then, when the data module is released, the attribute inwork is reset to the value "00", and the issue number incremented to indicate approved release of that instance of the data module. [...]

ADV-DMC-INWORK

ADV-AJ-A-49-61-34-00AAA-520A-A-01

ADV-DMC-01

-02

-03

- ...


The @inwork evolves if:

- The previous Advance Copy was cancelled
- The previous Advance Copy was incorporated.

This evolution never means an AdvCo content updating, which is in fact not allowed by the process.

A400M TID – Advance Copy Authoring

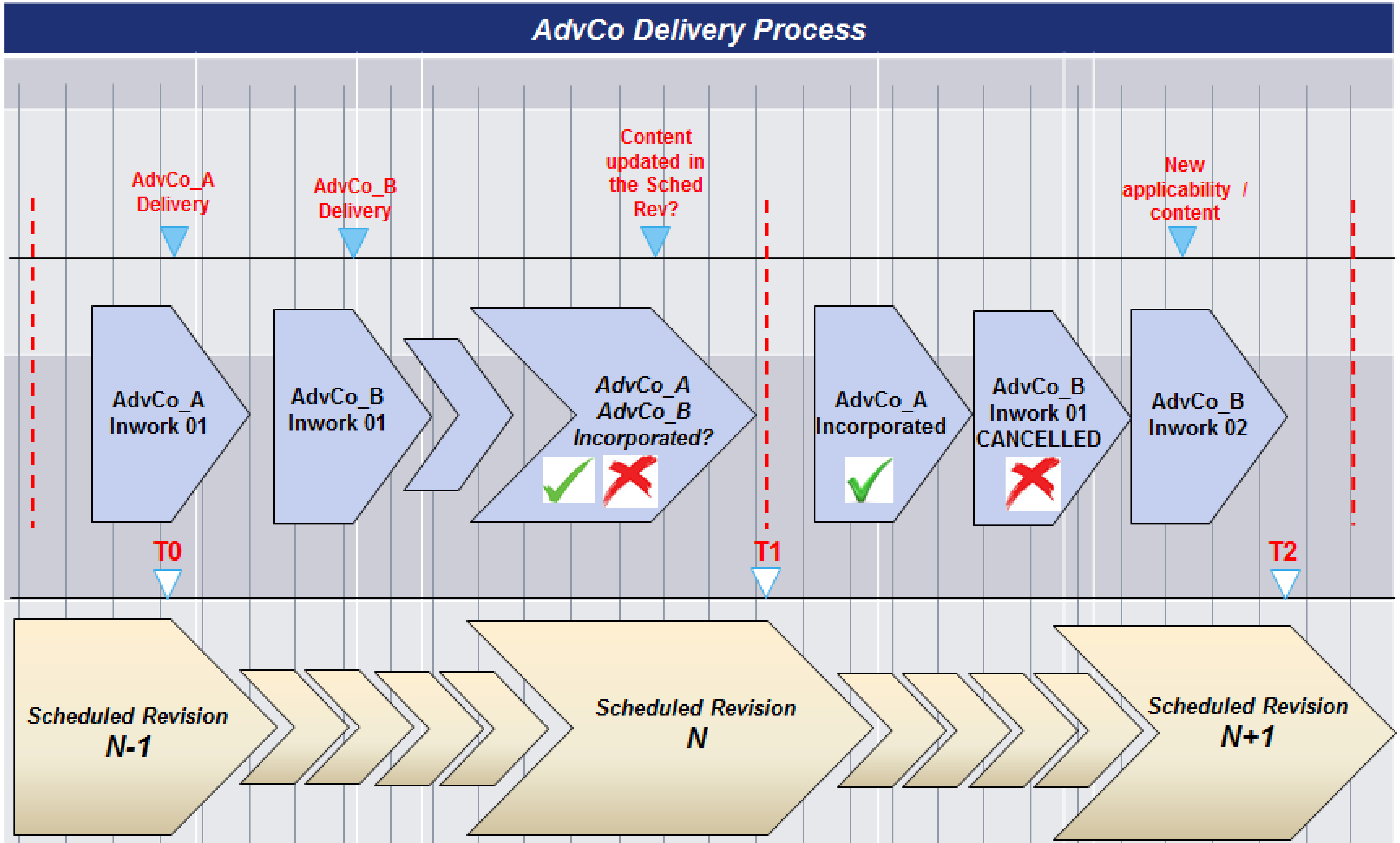
Advance Copy – Header

	<p>A400M ADV-AJ-A-05-51-42-28AAA-282A-A-02</p>	<p>ADVANCED COPY</p>
	<p>Inspection After Excessive Maneuver In Flight (Wing)-Unscheduled inspection (Phase 1 inspection)</p>	

- Envelope deliverable ✓
Distributed to all applicable operators
- XML authoring
- Customized AdvCo stylesheet (.xsl)
- Complete (AM) or partial updated content (CSNs)
- Including highlights

A400M TID – Advance Copy Authoring

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A400M TID – Advance Copy Authoring

- Suppliers data – Advance Copy?

** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0049, 0051-0057			
ADV-AJ-A-32-41-71-00AAA-310A-B-02	31/12/2016		AM, EQM
ADV-AJ-A-32-41-71-00AAA-683A-B-01	31/12/2016		AM, EQM
ADV-AJ-A-32-41-77-00AAA-310A-B-02	31/12/2016		AM, EQM
ADV-AJ-A-32-41-77-00AAA-683A-B-01	31/12/2016		AM, EQM

- Industry deliverable ✓
- Industry tracked ✓
- Process accepted by suppliers (on-demand) ✓

A400M TID – Advance Copy Traceability

1. Introduction: Why Advance Copy?
2. Way-of-Working – AS IS: authoring
- 3. Way-of-Working – AS IS: traceability**
4. Remark: operators / customers needs

A400M TID – Advance Copy Traceability

Change record – Coding

S1000D Chap 3.9.4 (Front matter data modules)

The Change Record (CR – 00T) is intended to provide a continuing record of the state of each individual copy of the publication.

AJ-A-00-40-00-NNAAA-00TA-D

Technical Publication (List of applicable publications) - Change record (List of advance copies)

NN = 35 (in accordance with *<pmnumber>*, infoset where the DM is allocated)

	<p>A400M AJ-A-00-40-00-35AAA-00TA-D Issue: 011 - Inwork: 01 - Date: March 31, 2017</p>	<p>Applicability: ** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0049, 0051-0055, 0057-0060</p>
<p>Technical Publication (List of applicable publications)-Change record (List of advanced copies)</p>		

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A400M TID – Advance Copy Traceability

Change record – Layout

- Customized deliverable ✓

Table 1 – List of Scheduled Revisions (Summary of the TID Scheduled revisions by A/C MSN and Issue Date).

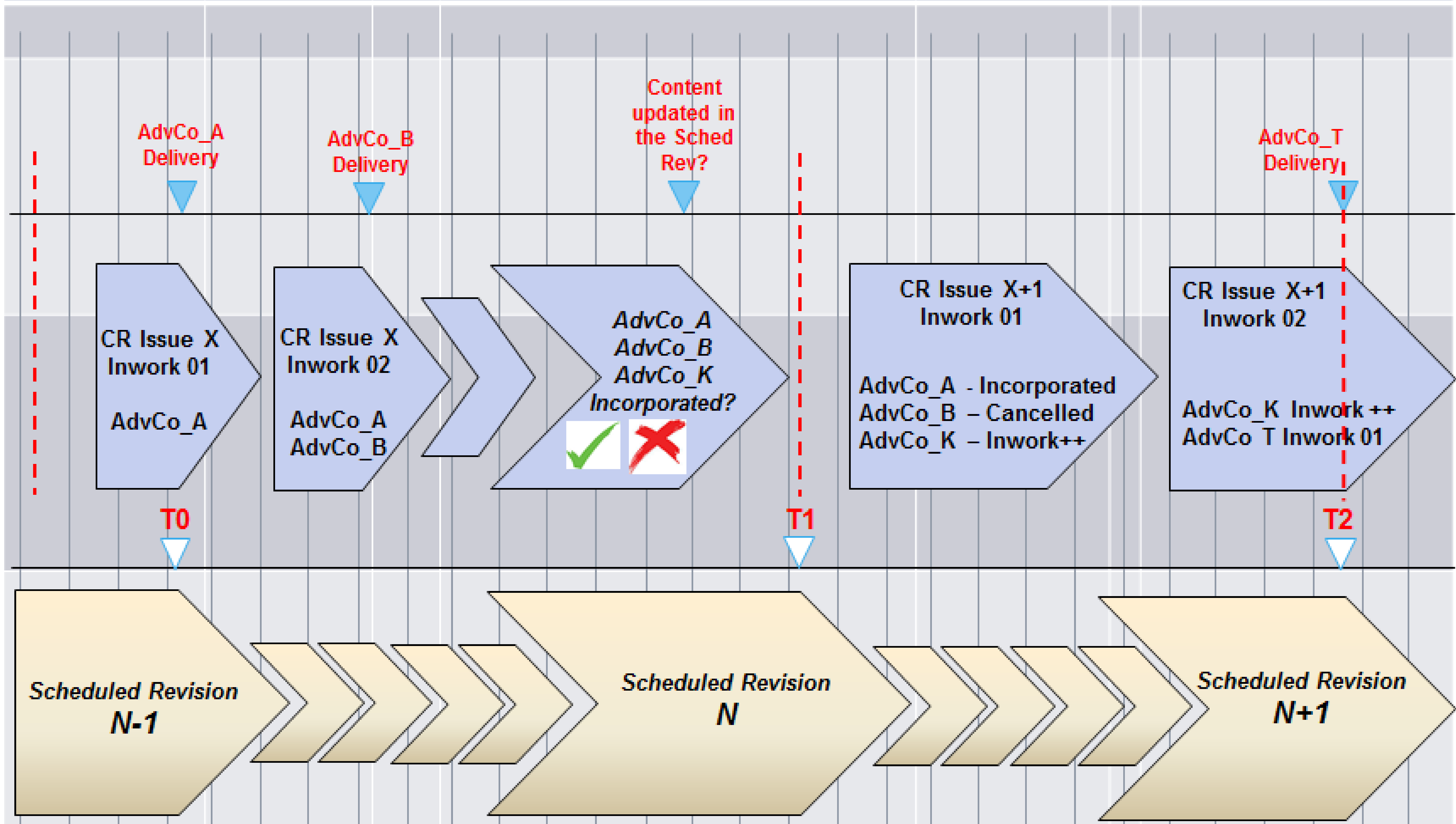
ISSUE No.	ISSUE Date
** On A/C: 0007-0008	
001	31/12/2012
002	31/03/2013
** On A/C: 0009	
001	31/03/2013
** On A/C: 0007-0008	
003	31/05/2013
** On A/C: 0009	
002	31/05/2013

Table 2 – List of Advance Copies

ADVANCED COPY CODE	ISSUE Date	INCORPORATION Date	Applicable IS
** On A/C: 0009-0017, 0019-0021, 0024-0028, 0031, 0033-0034, 0037-0038, 0043, 0045, 0047, 0051			
ADV-AJ-A-56-12-41-03AA0-941A-D-03	28/10/2016	CANCELLED	IPD
** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0049, 0051			
ADV-TP-A-05-10-01-00AAA-030A-D-05	28/10/2016	31/12/2016	AM, EBM
ADV-AJ-A-73-21-00-01AAA-750A-A-02	24/10/2016	31/12/2016	AM
ADV-AJ-A-73-21-00-02AAA-750A-A-02	24/10/2016	31/12/2016	AM

A400M TID – Advance Copy Traceability

Change Record (CR) - Delivery Process



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A400M TID – Advance Copy Traceability

- AdvCo(s) delivery - Highlights

ADVANCED COPY CODE	ISSUE Date	INCORPORATION Date	Applicable IS
ADV-AJ-A-54-15-72-21AA0-941A-D-01	16/03/2017		IPD
ADV-AJ-A-54-15-72-22AA0-941A-D-01	16/03/2017		IPD
ADV-AJ-A-54-15-72-23AA0-941A-D-01	16/03/2017		IPD
** On A/C: 0007-0021, 0024-0026, 0028			
ADV-AJ-A-52-71-17-01AA0-941A-D-01	16/03/2017		IPD
** On A/C: 0027, 0029-0031, 0033-0035, 0037-0049, 0051-0057			
ADV-AJ-A-52-71-17-01AAA-941A-D-01	16/03/2017		IPD
** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0049, 0051-0057			
ADV-AJ-A-54-10-00-00AAA-664A-A-02	16/03/2017		ASR
** On A/C: 0007-0020			
ADV-AJ-A-52-13-73-01AA0-941A-D-05	07/03/2017		IPD
** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0049, 0051-0057			
ADV-AJ-A-27-34-00-03AAA-271A-A-01	03/03/2017		AM
ADV-AJ-A-27-34-00-02AAA-271A-A-03	24/02/2017		AM

A400M TID – Advance Copy Traceability

Change record – Layout

- LOAP InfoSet

The List of Applicable Publications (LOAP) lists the required publications for a customer project.

The List of Advance Copies includes:

- The **effective** Advance Copies
- The **superseded** Advance Copies with the corresponding Scheduled Revisions which cancel them.

The List of Advance Copies is issued and updated every time a new Advance Copy is delivered. It is also issued with the corresponding Scheduled Revision to indicate which Advance Copies have been implemented in that Scheduled Revision.

If a maintenance procedure (trigger of an Advance Copy) is supported by any not updated Data Module which is not part of the AM Publication Module, its corresponding IS will also be stated within the "Applicable IS" column following "AM" (for example: for the ADV-TP-A-72-11-00-01AAA-720B-B-04, the "Applicable IS" will be shown as "AM, EBM").

The Data Module Code will be indicated below the "INCORPORATION Date" if the content of the Advance Copy has been incorporated under a Data Module different from that which is stated within the Advance Copy Code.

The value "CANCELLED" in the "INCORPORATION Date" column shows an Advance Copy which is superseded(*) by another Advance Copy, and the result in the List of Advance Copies is one of the following:

- A new Advance Copy with the same content but new applicability
- A new Advance Copy with its technical content updated.

In both cases, the inwork within the Advance Copy Code will be increased, so the coding will be different in the new Advance Copy.

(*) If the content of the Advance Copy is no longer applicable or the DM issue delivered is previous to the Advance Copy issue date, the Advance Copy will also be set as "CANCELLED", but it will not be superseded by any other Advance Copy.

2 LIST OF ADVANCED COPIES

The List of Advanced Copies includes:

- The effective Advanced Copies
- The superseded Advanced Copies with the corresponding Scheduled Revisions which cancel them.

The List of Advanced Copies is issued and updated every time a new Advanced Copy is delivered. It is also issued with the corresponding Scheduled Revision to indicate which Advanced Copies have been implemented in that Scheduled Revision.

If a maintenance procedure (trigger of an Advance Copy) is supported by any not updated Data Module which is not part of the AM Publication Module, its corresponding IS will also be stated within the "Applicable IS" column following "AM" (for example: for the ADV-TP-A-72-11-00-01AAA-720B-B-04, the "Applicable IS" will be shown as "AM, EBM").

The Data Module Code will be indicated below the "INCORPORATION Date" if the content of the Advance Copy has been incorporated under a Data Module different from that which is stated within the Advance Copy Code.

The value "CANCELLED" in the "INCORPORATION Date" column shows an Advanced Copy which is superseded(*) by another Advanced Copy, and the result in the List of Advanced Copies is one of the following:

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ADVANCED COPY CODE	ISSUE Date	INCORPORATION Date	Applicable IS
ADV-AJ-A-54-15-72-21AA0-941A-D-01	16/03/2017		IPD
ADV-AJ-A-54-15-72-22AA0-941A-D-01	16/03/2017		IPD
ADV-AJ-A-54-15-72-23AA0-941A-D-01	16/03/2017		IPD
** On A/C: 0007-0021, 0024-0025, 0028			
ADV-AJ-A-52-71-17-01AA0-941A-D-01	16/03/2017		IPD
** On A/C: 0027, 0029-0031, 0033-0035, 0037-0048, 0051-0057			
ADV-AJ-A-52-71-17-01AAA-941A-D-01	16/03/2017		IPD
** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0048, 0051-0057			
ADV-AJ-A-54-10-00-00AAA-664A-A-02	16/03/2017		ASR
** On A/C: 0007-0020			
ADV-AJ-A-52-13-73-01AA0-941A-D-05	07/03/2017		IPD
** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0048, 0051-0057			
ADV-AJ-A-27-34-00-02AAA-271A-A-01	03/03/2017		AM
ADV-AJ-A-27-34-00-02AAA-271A-A-03	24/02/2017		AM
** On A/C: 0007-0020			
ADV-AJ-A-52-13-73-01AA0-941A-D-04	22/02/2017	CANCELLED	IPD
** On A/C: 0007-0021, 0024-0031, 0033-0035, 0037-0043, 0045-0048, 0051-0057			
ADV-AJ-A-27-34-00-02AAA-271A-A-02	15/02/2017	CANCELLED	AM
ADV-AJ-A-25-53-31-A1AA0-941A-D-02	14/02/2017	CANCELLED	IPD

A400M TID – Advance Copy Traceability

AIRBUS DEFENCE AND SPACE A400M MAINTENANCE PUBLICATIONS ADVANCED COPY NOTIFICATION

Dear Customer,

Since we have been informed you are not still able to access to your dedicated sFTP area (sftp.ronda.casa.eads.net), please find attached the following Airn@v Service anchoring files for A400M.

[I9034_Associated Data_AdvCo_Dec'16_Rev_12.zip](#)

[I9034_Maintenance_AdvCo_Dec'16_Rev_12.zip](#)

[I9034_Repair_AdvCo_Dec'16_Rev_01.zip](#)

Please remember that these zip files, which can be used to easily update your Airn@v services, contain inside the data folder the relevant Advanced Copies pdfs:

[ADV-AJ-A-54-15-72-21AA0-941A-D-01](#)

[ADV-AJ-A-54-15-72-22AA0-941A-D-01](#)

[ADV-AJ-A-54-15-72-23AA0-941A-D-01](#)

[ADV-AJ-A-52-71-17-01AA0-941A-D-01](#)

[ADV-AJ-A-52-71-17-01AAA-941A-D-01](#)

[ADV-AJ-A-54-10-00-00AAA-664A-A-02](#)

[DME-844BB-I9034-AJ-A-00-40-00-35AAA-00TA-D_010-13.PDF](#)

IMPORTANT NOTE:

Questions about the technical content of these Advanced Copies are to be addressed through the TID Customer Commenting functionality of the A400M Customer Services Web Portal (A400M CSWP), by referring to the affected DM.

Yours sincerely

A400M Technical Information and Data Team



A400M TID – Advance Copy Traceability

The screenshot displays a file explorer interface with two main panes. The left pane shows the local file system path: `M:\01_ADVANCED COPY\14_201612_Rev\Dec\12_16-03-2017\`. It contains a directory tree with folders for various dates from 2016 to 2017, and subfolders like 'data', 'mails', and 'Adanchorineitor'. The right pane shows the remote file system path: `/INTERESPECIAL/AWIPP/FAJ24/TID/OUT/Ready`. It displays a directory structure with folders 'MDS', 'TID', 'IN', and 'OUT', and subfolders 'Done', 'Download', 'Error', 'Ready', 'Upload', and 'Working'. Below the panes, there are two lists of files. The bottom-left list, titled 'Nombre de archivo', shows files like 'FAJ24_Associated Data_AdvCo_Dec'16_Rev_12.zip' and 'I9034_Associated Data_AdvCo_Dec'16_Rev_12.zip'. The bottom-right list, also titled 'Nombre de archivo', shows files like 'DDN-AJ-844BB-FAJ24-2017-00006.ZIP' and 'FAJ24_Associated Data_AdvCo_Dec'16_Rev_12.zip'. A red box highlights the first three files in the bottom-left list, and another red box highlights the first three files in the bottom-right list. A red arrow points from the first file in the bottom-left box to the first file in the bottom-right box, indicating a traceability link.

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A400M TID – Advance Copy Traceability

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 - DOOR INSTL-RWD RH COWL,PYLON - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - DOOR ASSY-RWD LH COWL,ENG1 - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - DOOR ASSY-RWD LH COWL,ENG2 - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - DOOR ASSY-RWD LH COWL,ENG3 - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - DOOR ASSY-RWD LH COWL,ENG4 - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - PANEL INSTL-DOOR RWD LH COWL - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - DOOR ASSY-RWD RH COWL,ENG1 - Illustrated parts data ** On A/C : 0007-0022, 0024-0053**
 - DOOR ASSY-RWD RH COWL,ENG2 - Illustrated parts data ** On A/C : 0007-0022, 0024-0053
 - DOOR ASSY-RWD RH COWL,ENG3 - Illustrated parts data ** On A/C : 0007-0022, 0024-0057
 - DOOR ASSY-RWD RH COWL,ENG4 - Illustrated parts data ** On A/C : 0007-0022, 0024-0053
 - PANEL INSTL-DOOR RWD RH COWL - Illustrated parts data ** On A/C : 0007-0009
 - PANEL INSTL-DOOR RWD RH COWL - Illustrated parts data ** On A/C : 0010-0022, 0024
 - PANEL INSTL-DOOR RWD RH COWL - Illustrated parts data ** On A/C : 0025-0057

Figure 1 - DOOR ASSY-RWD RH COWL,ENG1 - SHEET 1 of 3

DMC AJ-A-54-15-72-21AA0-941A-D

DM STATUS INFORMATION **ADVANCED COPY**

** On A/C : 0007-0022, 0024-0053

54-15-72 Fig. 21

ADV-AJ-A-54-15-72-21AA0-941A-D-01.PDF

ADV-AJ-A-54-15-72-21AA0-941A-D-01.PDF

Page 1 of 3

	A400M ADV-AJ-A-54-15-72-21AA0-941A-D-01	ADVANCED COPY
	DOOR ASSY-RWD RH COWL,ENG1 – Illustrated parts data	

** For A/C: 0007-0022, 0024-0057

54-15-72 Fig. 21

DOOR ASSY-RWD RH COWL, ENG1 – Illustrated parts data

IPP Number: 0117B5415 – IPP Subject: Doors

A400M TID – Advance Copy Remarks

1. Introduction: Why Advance Copy?
2. Way-of-Working – AS IS: authoring
3. Way-of-Working – AS IS: traceability
4. **Remark: operators / customers needs**

A400M TID – Advance Copy Remarks

- The A400M programme has already put in place a TID procedure to be able to answer and deliver data to operators out of the TID scheduled revisions (3-month-basis). But what happens if industry has to deliver a data module in advance (AOG/Safety/Operability issues)? Do we have a standard & controlled process?
 - *Not all operators / customers have a CSDB or resources to integrate S1000D DMs and they are not able to modify / update their TID deliverables on-demand.*
- Interchangeability (*spares - <csn>*), IPD AdvCo(s).
- Operators need their updated technical publications to perform maintenance activities even though they receive other in-service engineering documentation; AOT, OIT,...
- Official TID deliverable to support maintenance activities & operations.
- Support process between Sched. Revisions → Operators find FULL Support & back-office for the product although it requires also an effort by customers' side (traceability, attachment management...).

A400M TID – Advance Copy & S1000D

De-briefing...

- Operators need our **SUPPORT** & industry has to develop a mechanism to cover this need.
- TID Team is convinced that this is a way forward in order to achieve an operational **PRODUCT**.



Thank you

for your attention!

Questions?



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