



# Configuration data exchange

## Configuration Management Working Group scope and challenges

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ATA e-Business forum - June 12-14 2017

**AIRBUS**

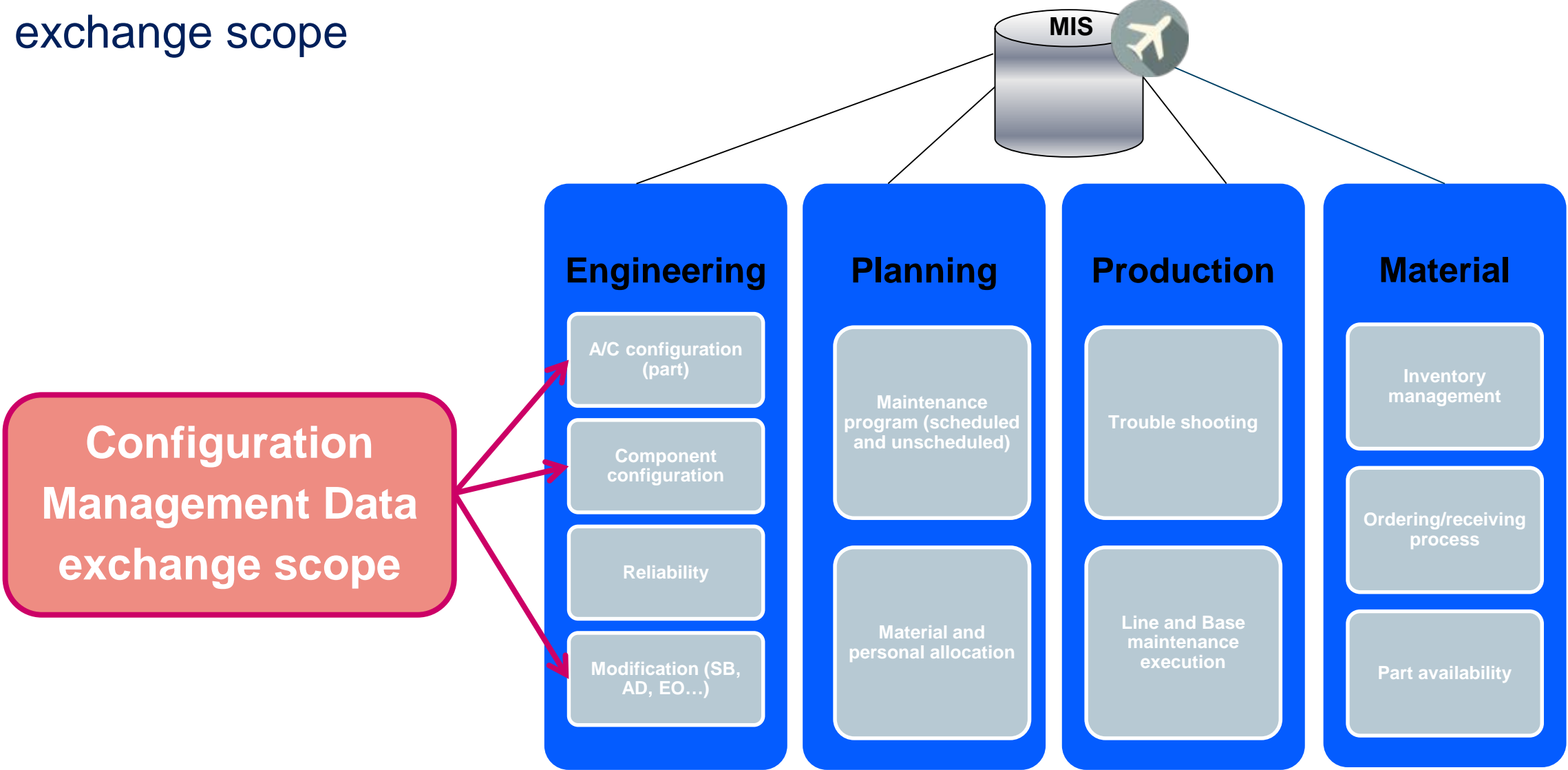
# Summary

- Configuration data scope
- Data exchange use cases
- Involved ATA e-Business exchange standards

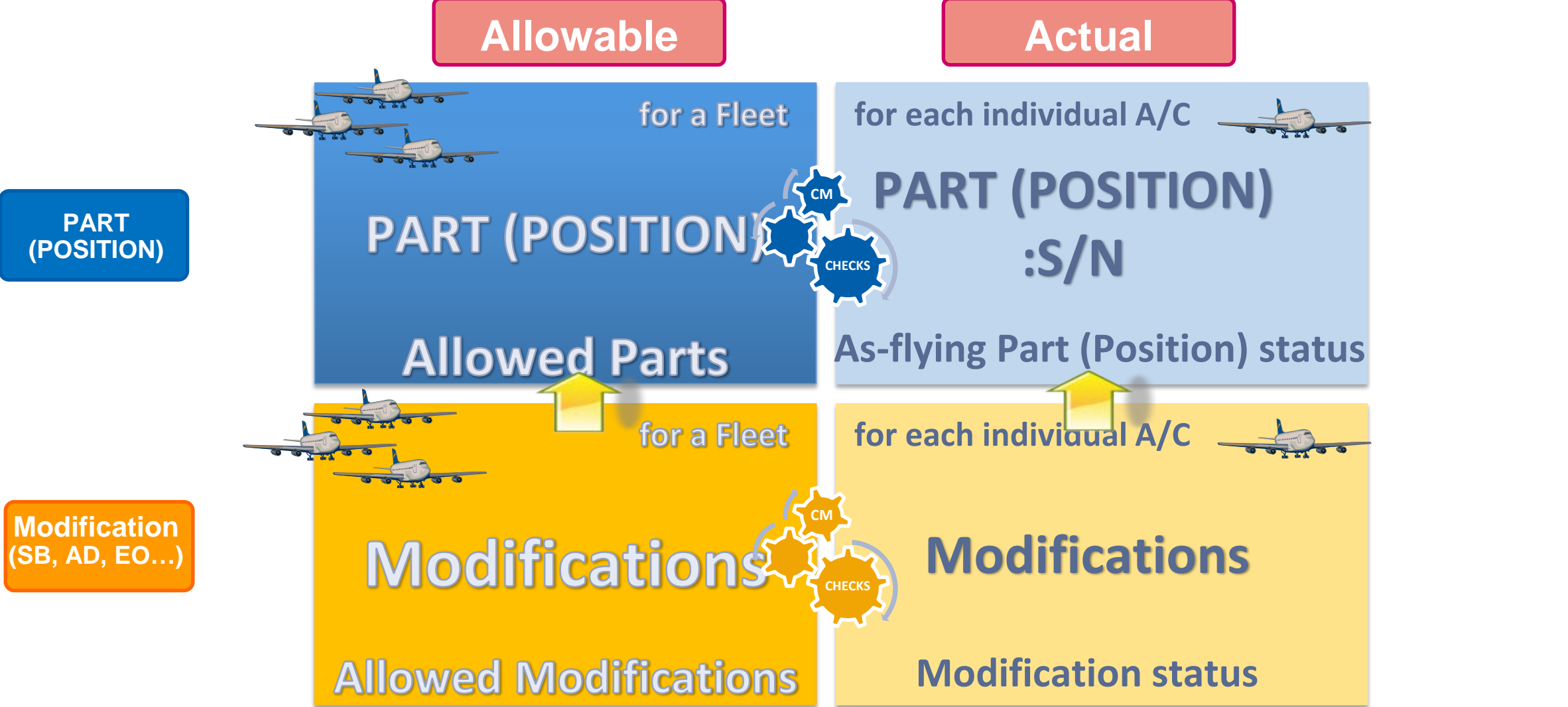


# Configuration data scope

# Maintenance Information System (MIS) modules and Configuration data exchange scope



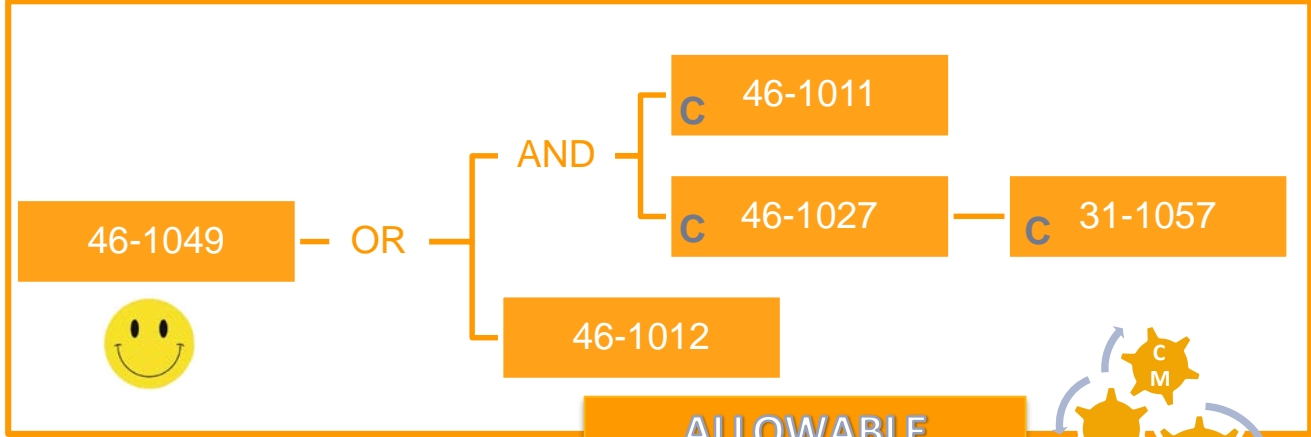
# Configuration data scope



# Actual (Modifications) configuration vs Allowable (Modifications) configuration

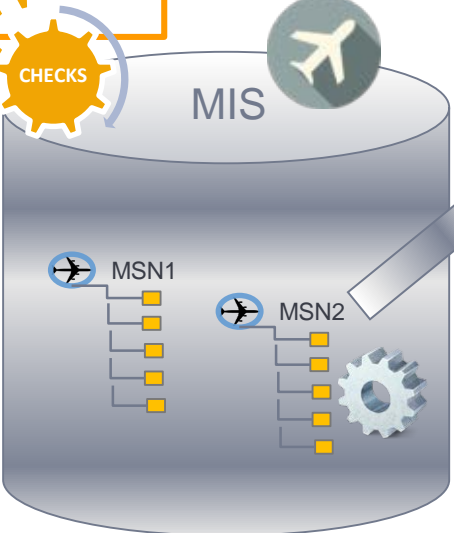
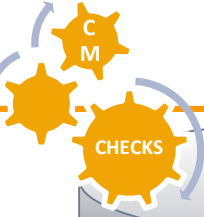
**Aircraft - MSN 2 – registration number XXX**

Modification number	Type	EO	AD	Description	Status	Accomplishment date
46-1011	SB				C	10/12/2016
31-1057	SB				C	01/08/2016
46-1027	SB				C	04/05/2016
ST324590	STC				C	16/03/2014



Which Modifications have been embodied on a given A/C?

**ALLOWABLE (MODIFICATIONS) CONFIGURATION**



**ACTUAL (MODIFICATIONS) CONFIGURATION**

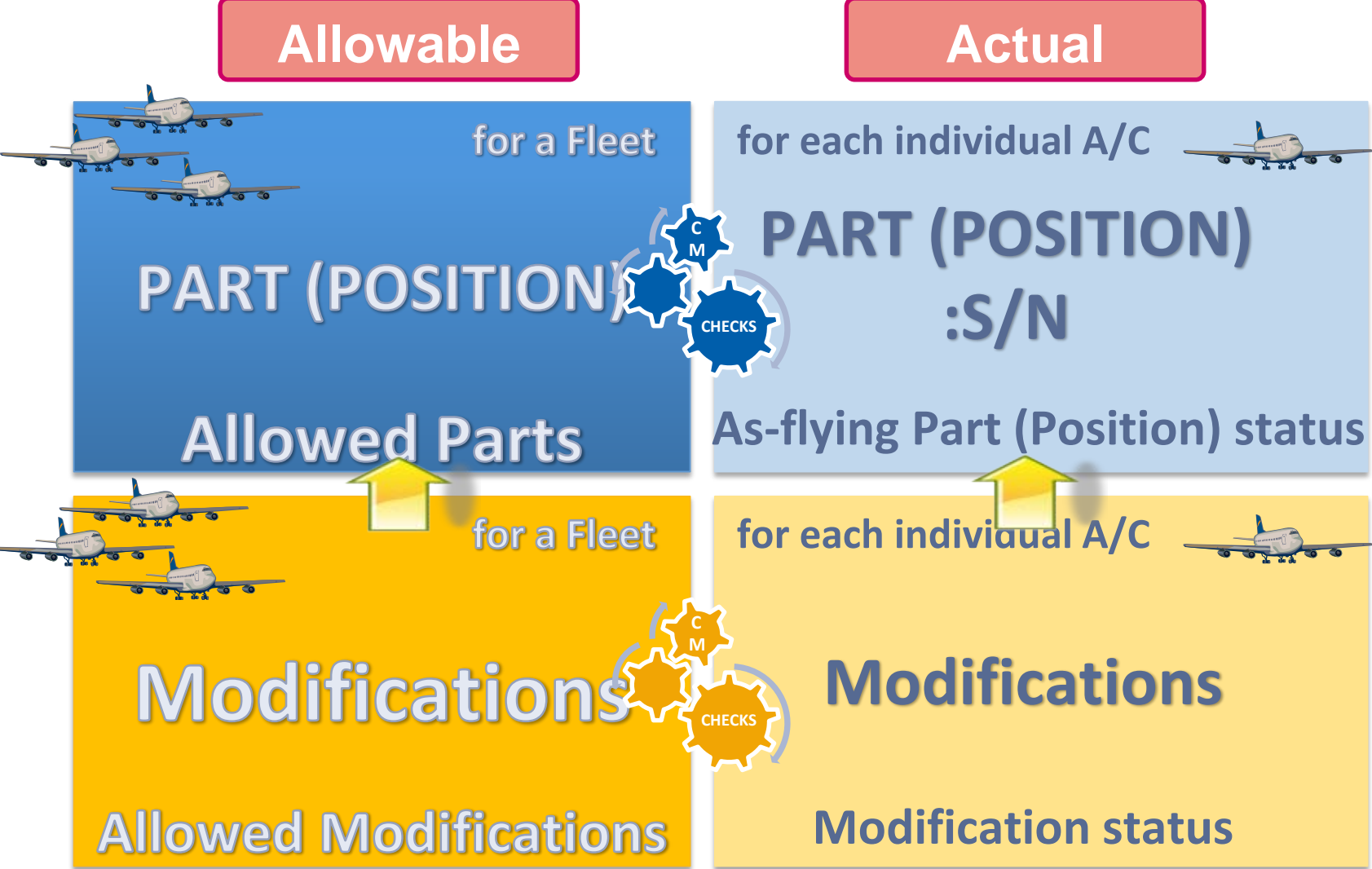
Conditions based on ACTUAL CONFIGURATION in MODIFICATIONS

Which SB can be embodied on my A/C?  
And under which conditions?

# Configuration data scope

**PART  
(POSITION)**

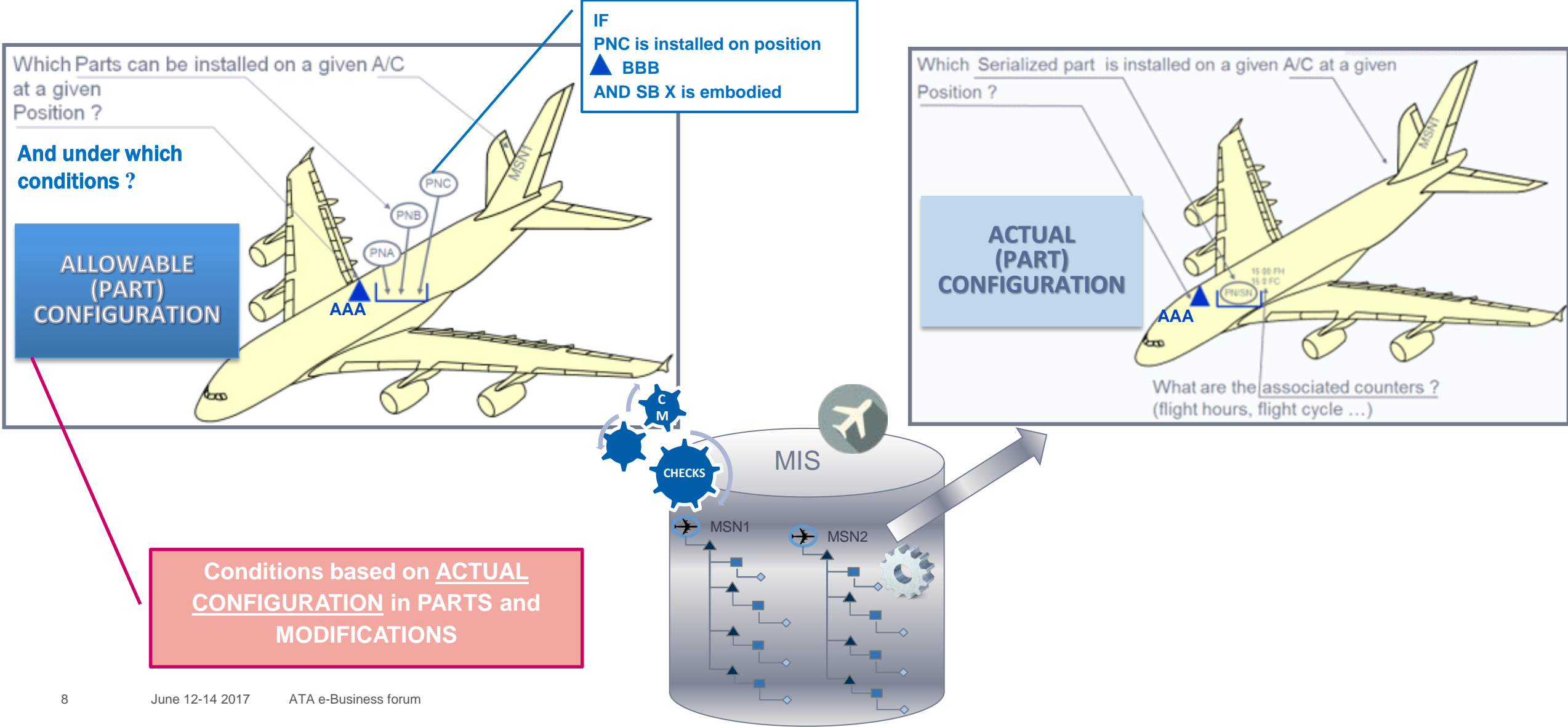
**Modification  
(SB, AD, EO...)**



As delivered  
As Maintained / As-Flying



# Actual (Part) configuration vs Allowable (Part) configuration

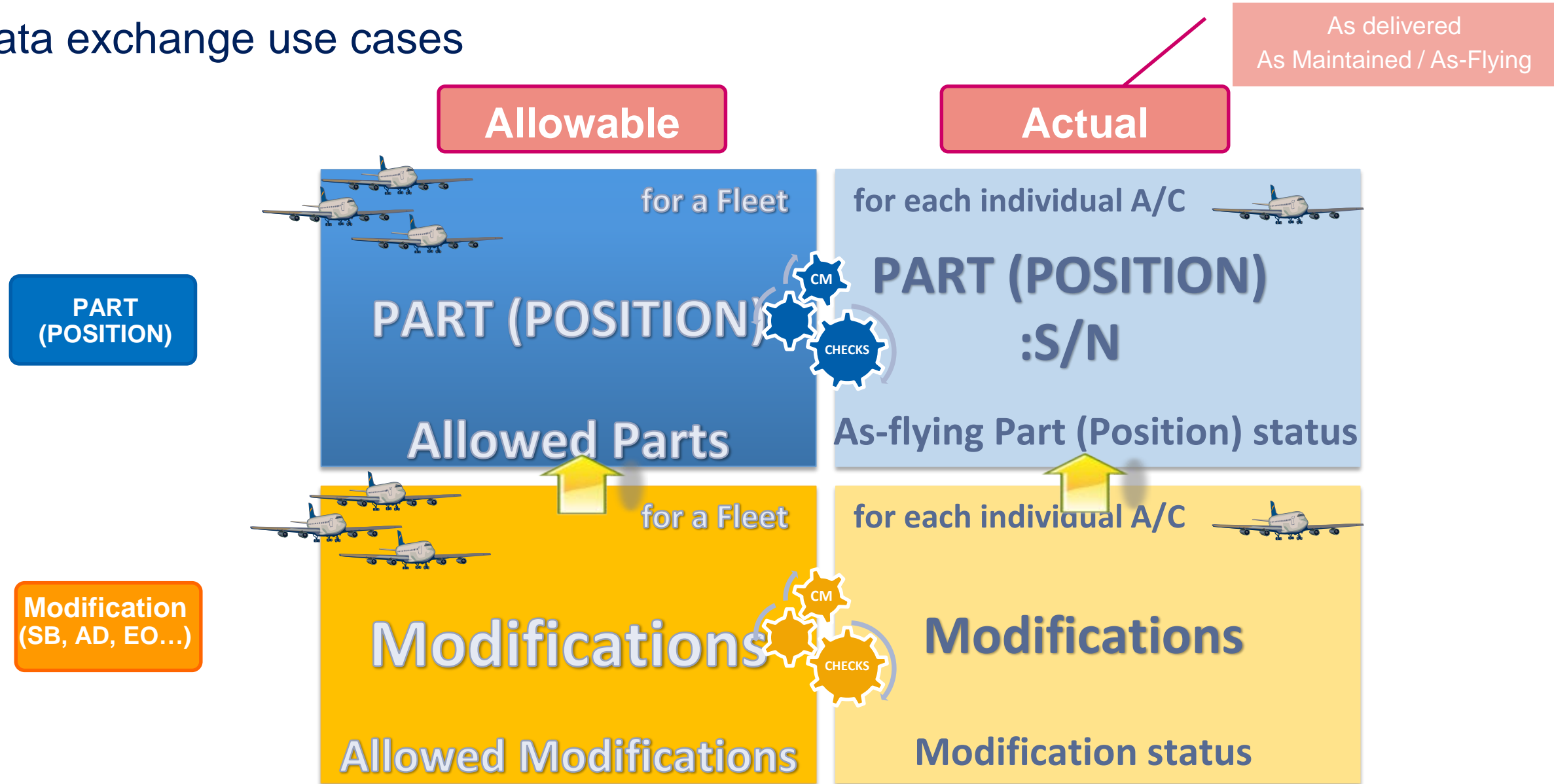






# Data exchange use cases

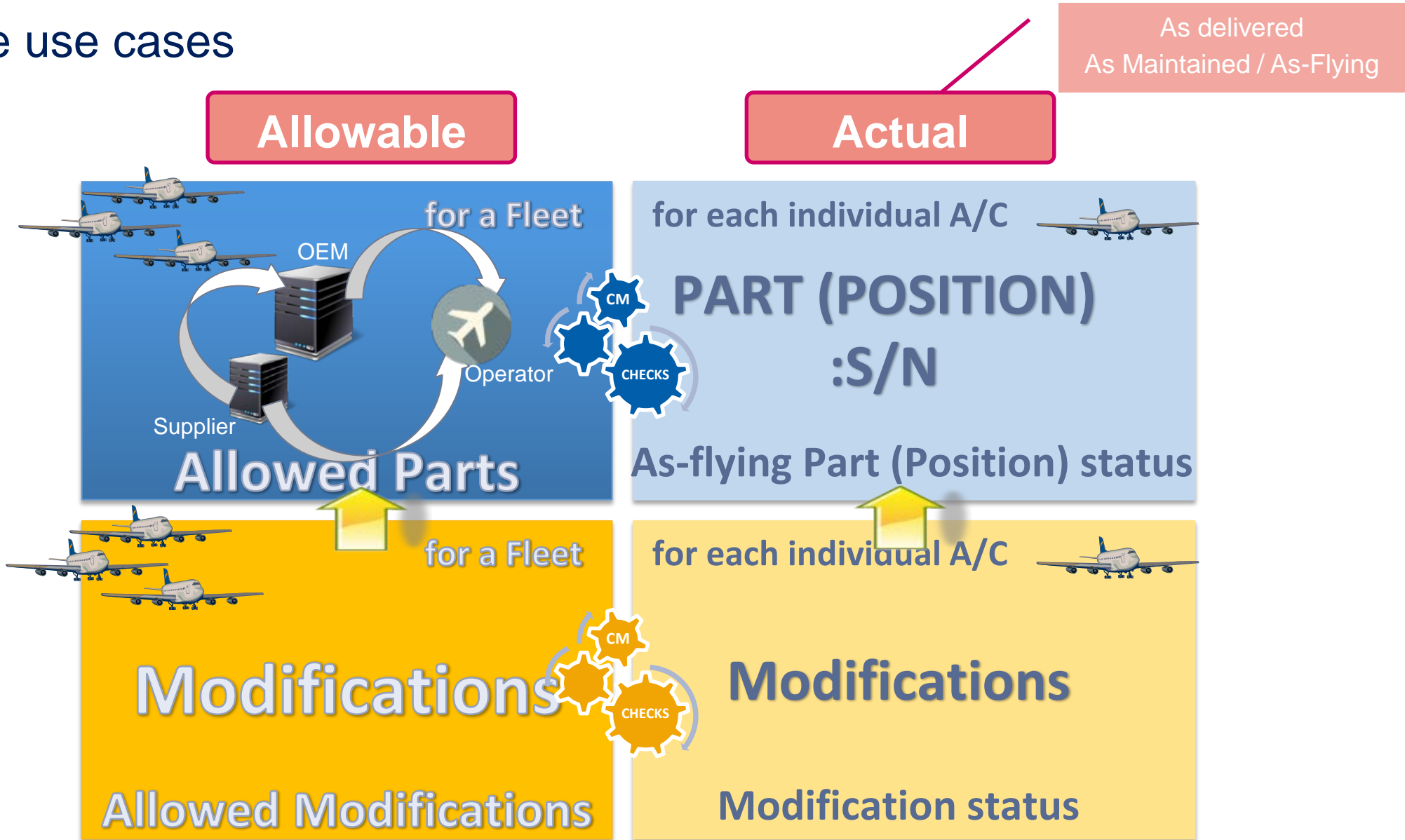
# Data exchange use cases



# Data exchange use cases

**PART  
(POSITION)**

**Modification  
(SB, AD, EO...)**



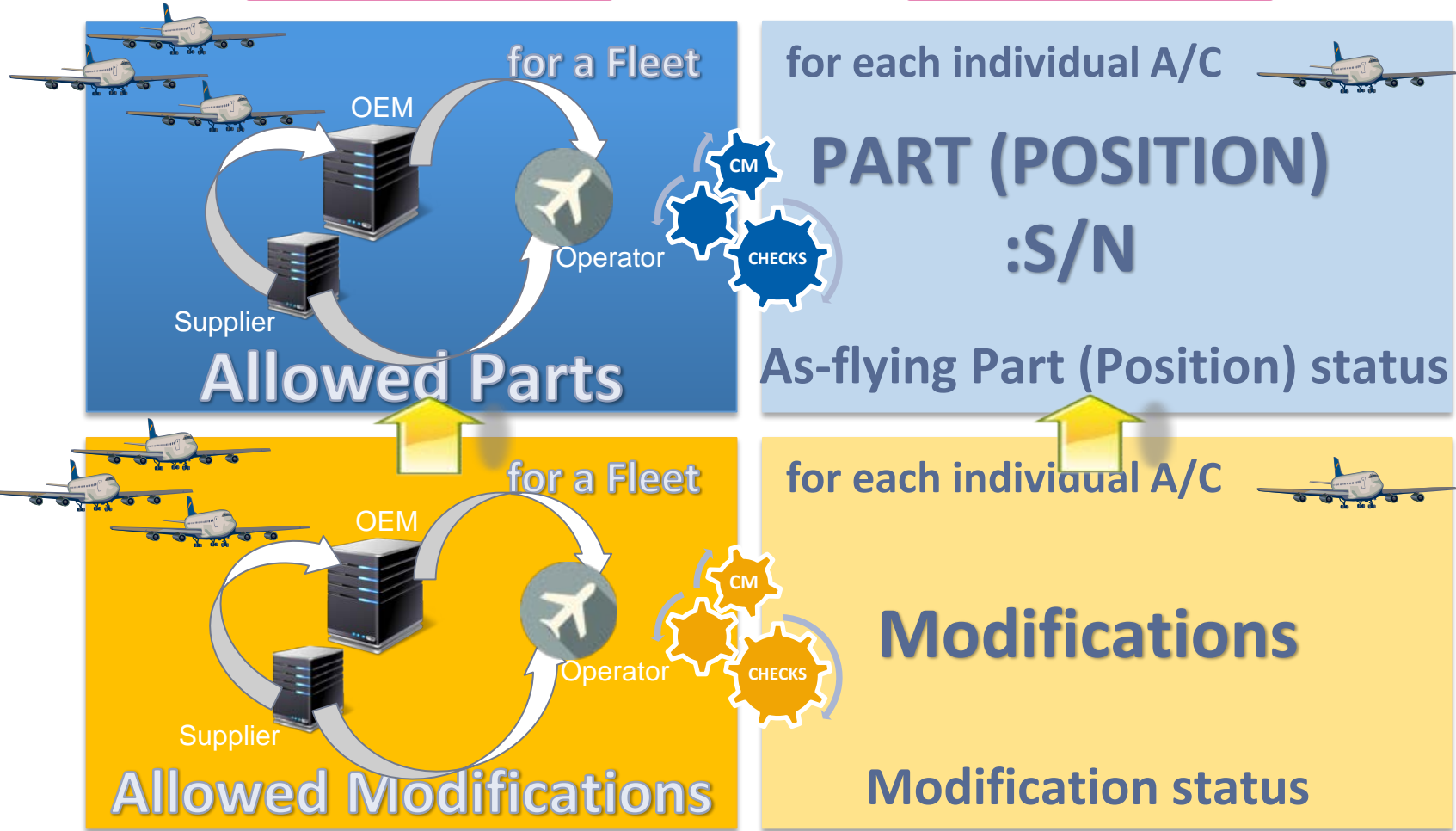
# Data exchange use cases

**PART  
(POSITION)**

**Allowable**

**Actual**

As delivered  
As Maintained / As-Flying



# Data exchange use cases

As delivered  
As Maintained / As-Flying

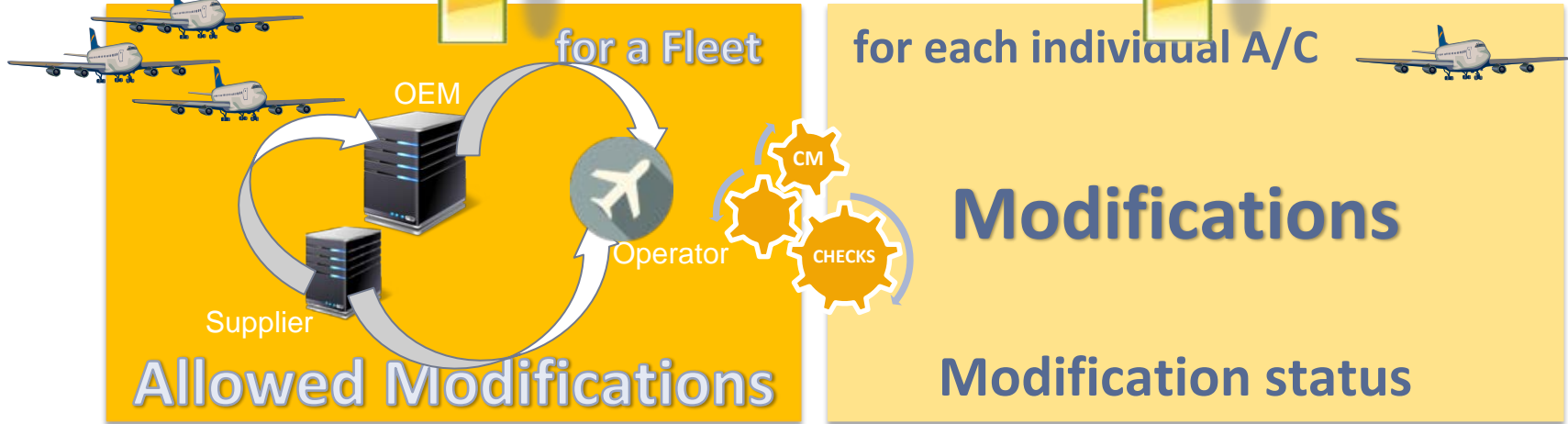
**Allowable**

**Actual**

**PART  
(POSITION)**



**Modification  
(SB, AD, EO...)**



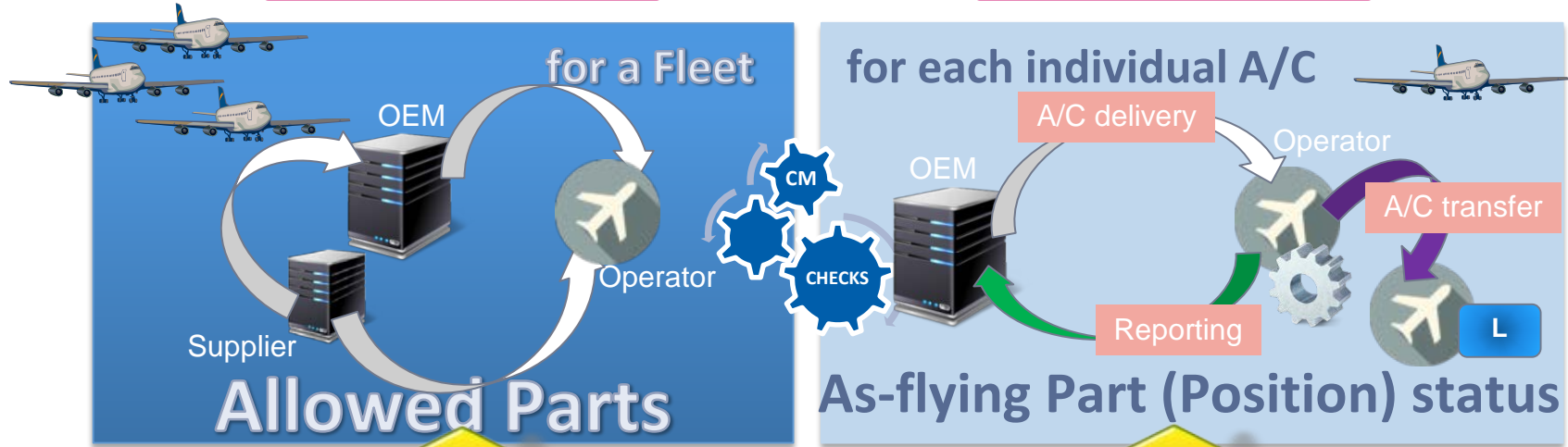
# Data exchange use cases

As delivered  
As Maintained / As-Flying

**Allowable**

**Actual**

**PART  
(POSITION)**



**Modification  
(SB, AD, EO...)**







## Involved ATA e-Business exchange standards



# ATA e-Business Configuration Management Working Group

Allowable

Actual

**STRONG  
CONSISTENCY  
required**

for a Fleet

for each individual A/C

PART (POSITION)

PART (POSITION)  
:S/N

## Main objective

Oversee the development and harmonization of exchange standards pertaining to the global scope of Configuration Management concepts across the ATA e-Business Program specifications

Parts

As-flying Part (Position) status

for a Fleet

for each individual A/C

Modifications

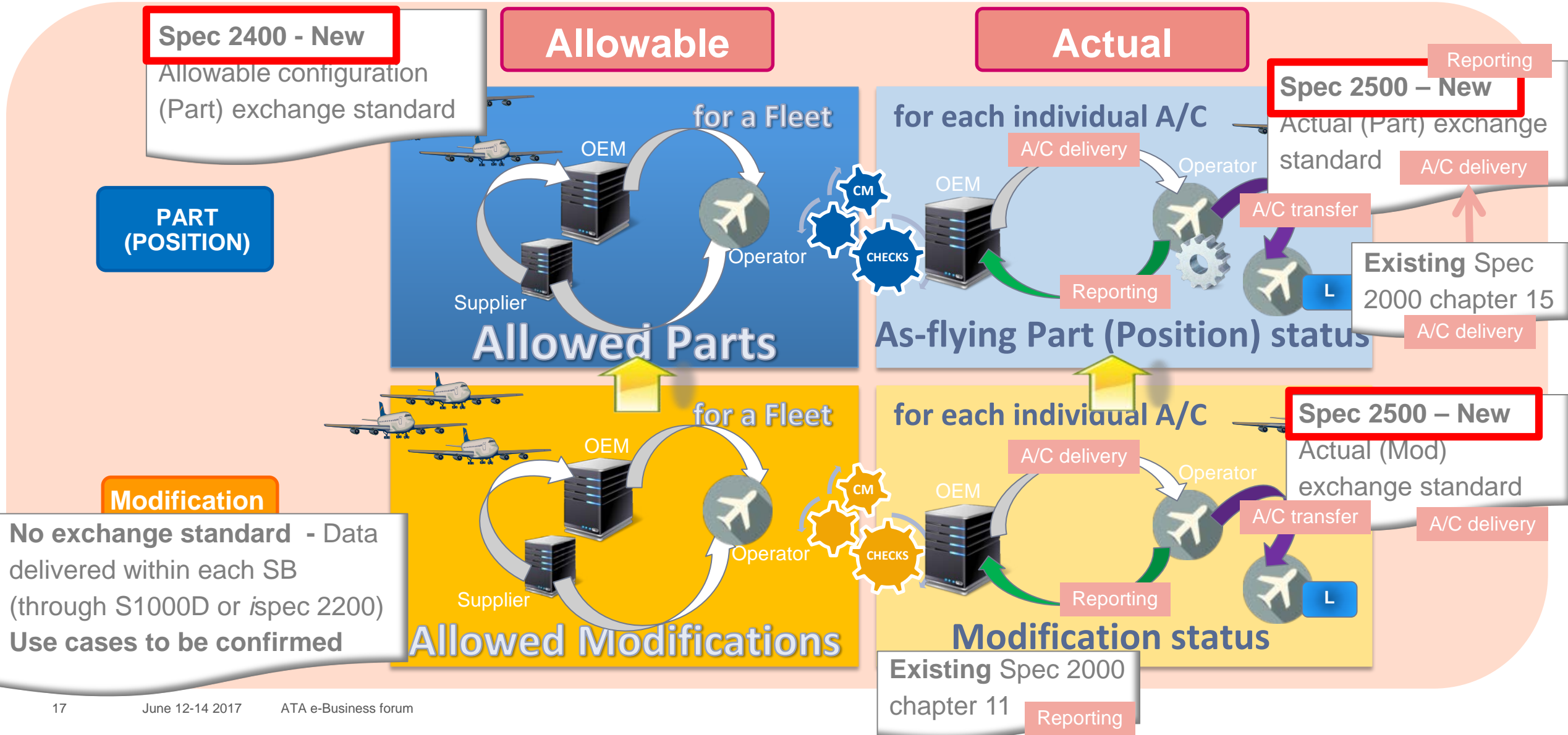
Modifications

Allowed Modifications

Modification status

C  
M  
W  
G

# ATA e-Business exchange standards for Configuration data



# ATA new e-Business exchange standards roadmap

June 2017

First quarter 2018

**Spec 2400**

**Spec 2500**

**Allowable**

**Actual**

**PART  
(POSITION)**

Allowable (Part) exchange

- Detailed use cases
- Schema
- Business rules
- XML examples

for a Fleet

for each individual A/C

Actual (Part) exchange

- Schema and business rules covering A/C transfer use case only
- Next spec version will cover A/C delivery and Reporting use cases (including compatibility with spec 2000 chap 15)

Supplier

Operator

OEM

Reporting

**Allowed Parts**

**As-flying Part (Position) status**

**Modification  
(SB, AD, EO...)**

Allowable (Modifications) exchange

- In a next version if business requirement confirmed

for a Fleet

for each individual A/C

Actual (Modifications) exchange

- Schema covering two use cases (A/C delivery and transfer)
- Business rules for A/C transfer only
- Next spec version will cover business rules for A/C delivery

Supplier

Operator

OEM

Reporting

**Allowed Modifications**

**Modification status**

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Thank you