

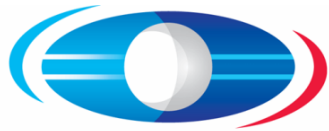


In partnership with



Karim Benmeziane
Directeur Technique
BNAE

<http://standardsdays.afnet.fr> - AFNeT Standards Days 2020 : 6 & 7 October 2020 – team@afnet.fr



BNAE

*La normalisation de l'Aéronautique,
et de l'Espace*

AFNET Standard Days

Exchange of standards parts libraries based on Machine readable standards

October 6th, 2020

Karim Benmeziane

karim.benmeziane@bnae.fr



Table of content

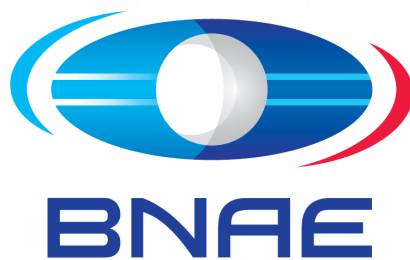
- Presentation of BNAE
- Our interfaces with EU and INT standardization
- Aerospace standard at European level, how it works
- A basic publishing process
- MRS maturity model
- A future publishing process
- Challenges

Association

founded in 1941

15 people





SME's



A

decree in 2009

gives BNAE

full **delegation**

from *Afnor*

for aerospace
standardization



Interfaces with European and International standardization

Representation

- ASD-STAN Domains
- CEN/CENELEC Aerospace activities (JTC5, TC274...)
- ISO Aerospace activities (TC20 and subcommittees)

Gathering expertise :

- Mirroring at national level
- Provides technical inputs (votes, comments...)

Qualification of standard parts:

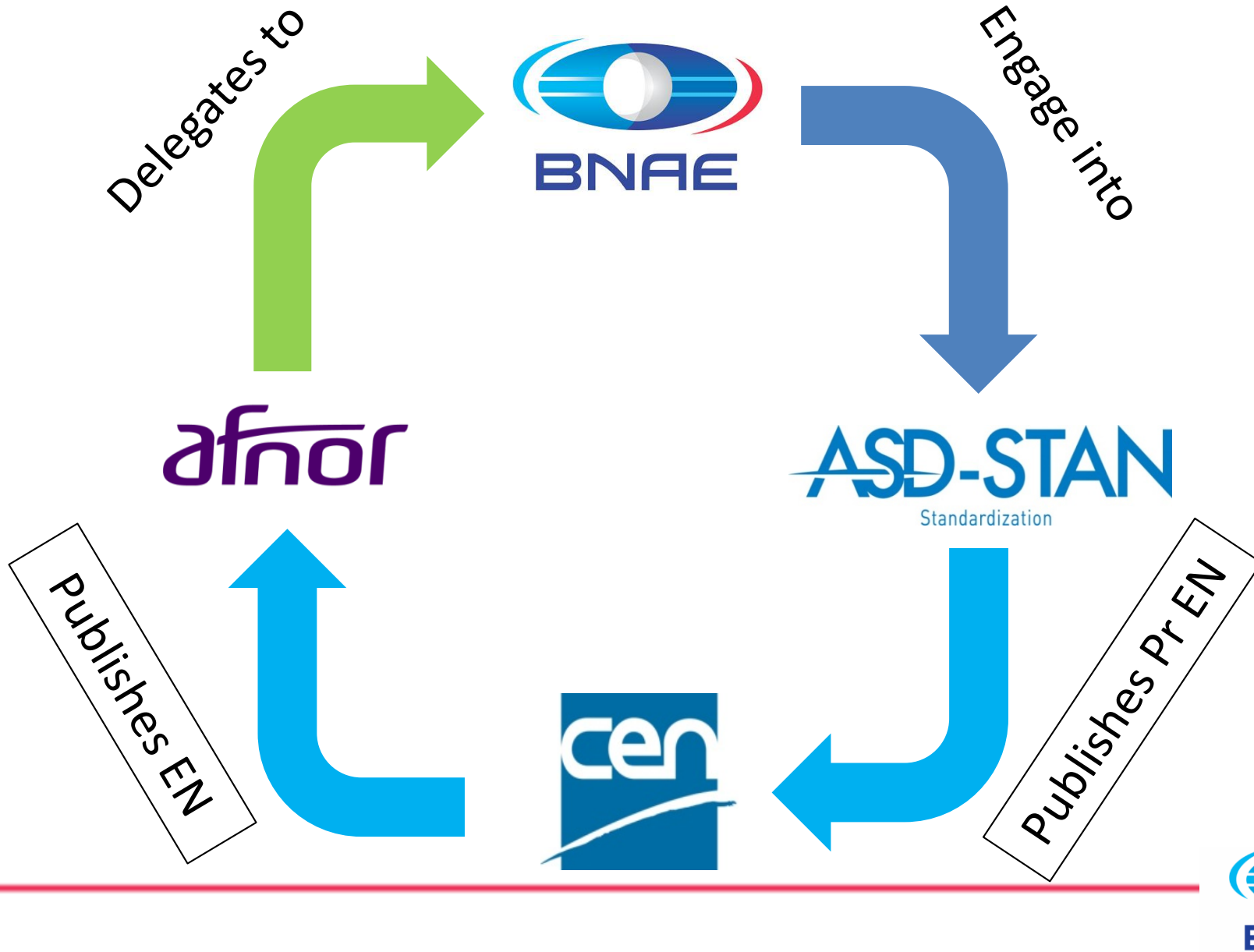
- ASD-CERT General Secretary seconded by BNAE

Aerospace standard at European level

- ASD-STAN is responsible for the development of aerospace standards in Europe.
 - Associated Body of CEN -> ability to develop European Standards
 - Working with ASD-CERT -> qualification of parts
- 8 Members through trade associations/authorities:
 - Germany
 - France <- through BNAE and GIFAS
 - UK
 - Italy
 - Spain
 - Sweden
 - EASA
 - ASD

<i>Domain</i>	<i>Leadership</i>
<i>Electrical</i>	<i>France</i>
<i>Mécanical</i>	<i>Germany</i>
<i>Materials</i>	<i>France</i>
<i>Quality & Airworthiness</i>	<i>France</i>

How it works



Basic publishing process nowadays...

Standard document

- Limited data structure (text...) in word and pdf files
- 2D Drawings (.tif and sometimes .dxf or .dwg)

Is published on

Web portal

- Limited searching capabilities (not possible with technical data)
- No 3D model of the part
- “Manual” integration in PLM tools → no direct integration in standard parts libraries.

Fed by

Database of meta-data + documents

- No common data model
- Limited interfaces

Recent developments:

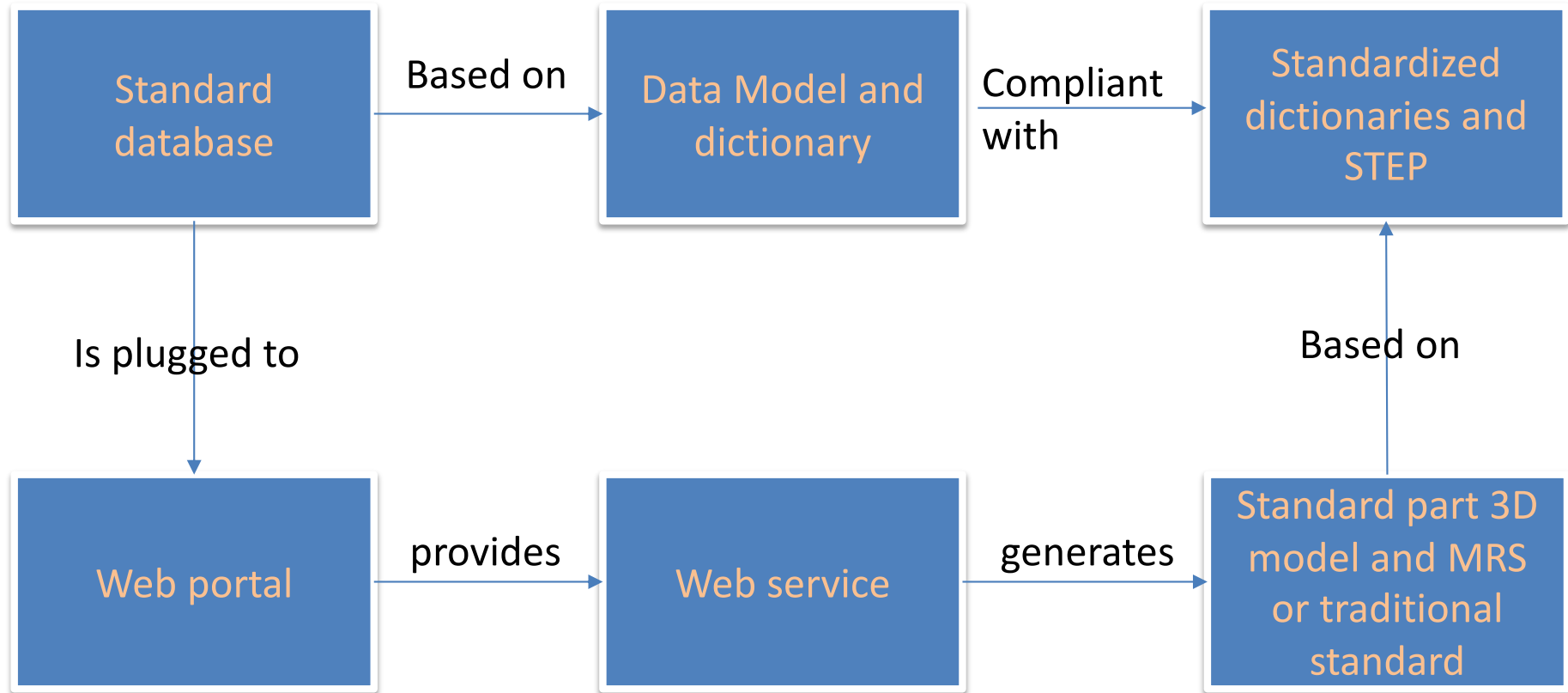
- Web integration through xml
- Parameterized 3D models of standard parts with “small” libraries

Machine readable standards features

SMART Classifications and Features



Future basic publishing process?



Challenges : they are still ahead to enable efficient data exchanges

BOM and parametrized 3D models are already on the market...

- Based on US Aerospace standards (SAE & AIA)
- Managed by standards resellers in cooperation with standard publishers and 3D libraries sellers
- But no workflow to manage the updates linked to the standardization process
- Does not cover requirements of standards but only the 3D model and its parameters

Standard development is moving...but slowly:

- Versioning, track-changes, on-line glossaries, content in Xml...
- Online collaborative drafting...but with no data model.

*Thank you.
Questions?*

