

Data exchange profiles: SNAM's point of view

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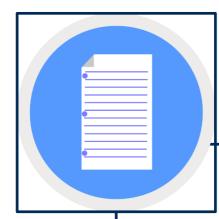
snam.it

AGENDA

- DE profiles
- Document based DE
- Integrated DE
- Interactive DE
- Conclusion



Commission Regulation (EU) 2015/703 exchange profiles



Document based

- Data wrapped in a file and then exchanged
- Protocol: AS4
- Data format: EDIG@S-XML



ntegrated

- Data exchanged directly between applications
- Protocol: HTTP/S-SOAP
- Data format: EDIG@S-XML

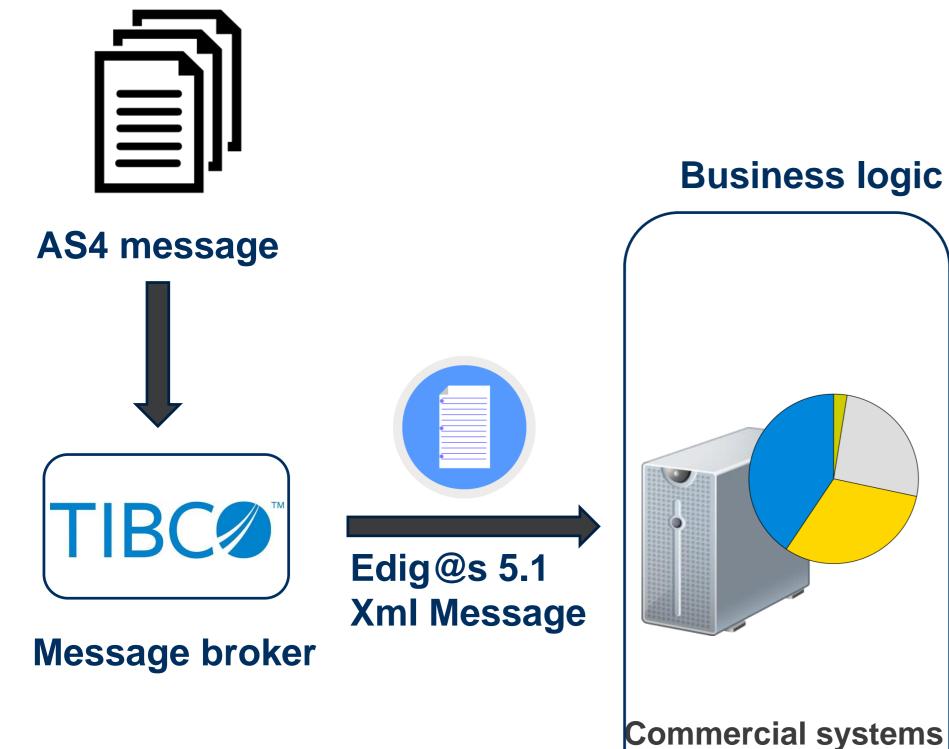


Interactive

- Data exchanged through a web application via a browser
- Protocol: HTTP/S



Document based data exchange



- Document based data exchange is a sound, reliable and secure protocol.
- The CNOT states that AS4 must be used for Nomination and Matching processes.
- Our ICT systems manage AS4 and edig@s:
 - NOMINT
 NOMRES
 ACKNOW
 ALOCAT
 DELORD
 DELRES

 Settlement and matching processes



Document based: the story so far...

POC

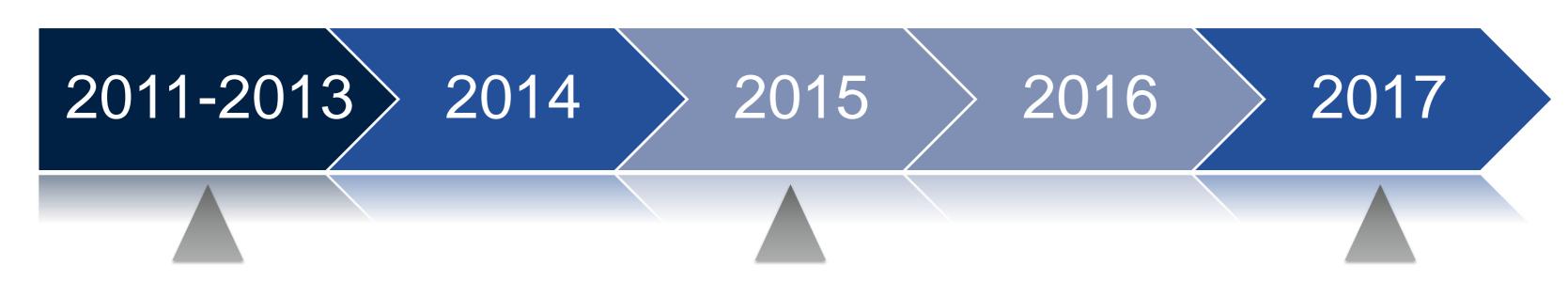
- Market scouting.
- First POC.
- · Profile refining.



FIRST RELEASE

- Developing.
- Issues resolution.
- Profile refining.





CONCEPT and **SPECS**

- INT KN work.
- First AS4 profile definition.

INCEPTION

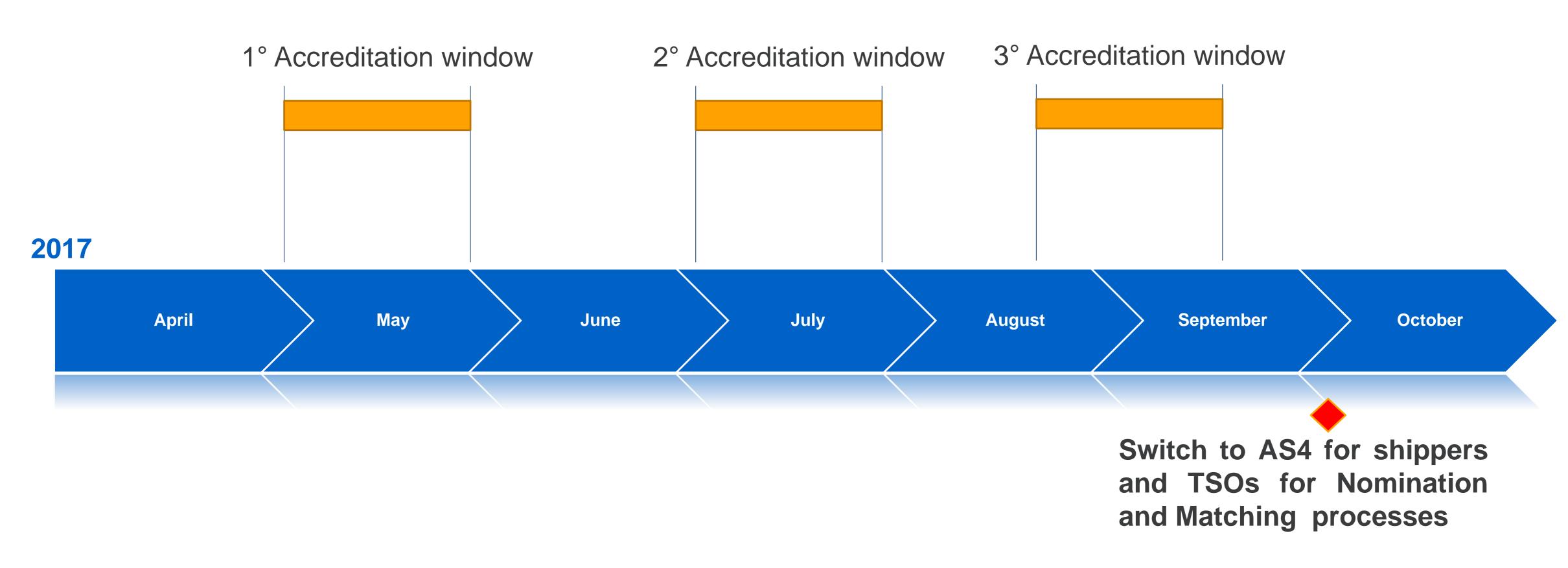
- Commission Regulation (EU) 2015/703.
- Planning and inception phase by SNAM.

CONSOLIDATION

- Nomination and Matching processes trough AS4.
- AS4 as company standard.

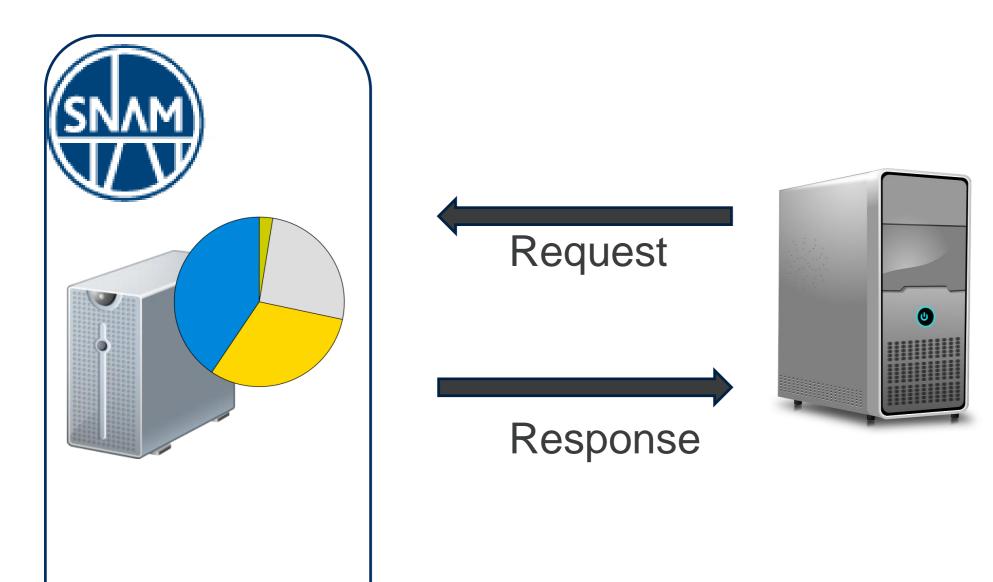


Document based as company standard





Integrated data exchange



- Integrated data exchange is used for on-line transactions (M2M).
- Suitable for request-response integrations with modest security requirements, such as:
 - Transparency.
 - UMM (Urgent Market Messages).
 - •
- Snam is already using some specifications (HTTPS, SOAP, WS-Security). The others will be used as technical specifications for new deployments.



SNAM servers

Interactive data exchange

- Interactive is a specification for human2machine interaction.
- Suitable for web apps with different security levels, a good choice for a back-up solution (e.g. AS4 unavailable).
- The profile is usefull because it obliges the usage of certain technologies as:
 - HTTP/S.
 - HTML5.
 - 2 factors authentication.
- It will be used as SNAM technical specs.



Summary

Profile	Technology	Application field	Audience	Maturity
Document based	HTTP/SAS4Edig@s XML	Capacity and AllocationCNOT	TSOShippers	High
Integrated	HTTP/SSOAPRESTXMLJSON	TransparencyPoint-to-point communicationUMM	TSOShippersACER/ENTSOGOther stakeholders	Medium
Interactive	HTTP/SHTML5	Public informationBack-up solutions	TSOShippersPublic access	Medium



Conclusion

- The common solutions are a good foundation for data exchange standardization.
- AS4 is becoming the standard for secure and reliable communications in the gas industry.
- We need to define business case for interactive and integrated profiles, except for AS4 which is well defined.





