

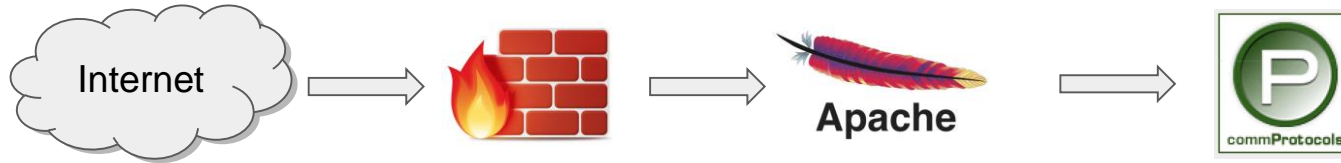


# ENTSO-G workshop

AS4 as a solution provider



# AS4 Implementation and Tool presentation



## Mendelson AS4 Gateway

- Open Source based solution
- Very reactive team / use of their AS2 system (about 8000 msg / day)
- Participation in development test phase
- Easy configuration and maintenance
- Multiple and simultaneous instances (Private Cloud/Amazon EC2/...)

# AS4 Tool presentation

The screenshot displays the Mendelson AS4 Server 2017 application window. The title bar reads "mendelson AS4 Server 2017". The menu bar includes "File" and "Help". The toolbar contains icons for Partner, Sign/Crypt, SSL/TLS, Message details, Filter, Toggle refresh, Columns, and Delete.

	Conversation	Timestamp	Local stati...	Remote stat...	Conversation id	PMode set
Message p...	4/13/17 4:17 PM	EGSSIS	ONTRAS_TEST	1006721314		Default
Message p...	4/18/17 9:00 AM	EGSSIS	ONTRAS_TEST	mendAS4-1492498805741-0@21X000000001018M_37X000000000...		Default

The log view shows the following entries:

```
[9:00:00 AM] mendAS4-1492498805741-0@21X000000001018M_37X000000000054S[15422433-bf2a-4b91-81c1-e5024447414f@ecg-leipzig.de: [Security verification] [Signature details] [/S12:Envelope/S12:Header/eb3:Messaging]: Signature algorithm: "http://www.w3.org/2001/04/xmldsig-more#rsa-sha256", digest algorithm: "http://www.w3.org/2001/04/xmenc#sha256"
[9:00:08 AM] mendAS4-1492498805741-0@21X000000001018M_37X000000000054S[15422433-bf2a-4b91-81c1-e5024447414f@ecg-leipzig.de: [Security verification] [Signature details] [/S12:Envelope/S12:Body]: Signature algorithm: "http://www.w3.org/2001/04/xmldsig-more#rsa-sha256", digest algorithm: "http://www.w3.org/2001/04/xmenc#sha256"
[9:00:08 AM] mendAS4-1492498805741-0@21X000000001018M_37X000000000054S[15422433-bf2a-4b91-81c1-e5024447414f@ecg-leipzig.de: [Security verification] [Signature details] Signature method: "http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"
[9:00:08 AM] mendAS4-1492498805741-0@21X000000001018M_37X000000000054S[15422433-bf2a-4b91-81c1-e5024447414f@ecg-leipzig.de: [Security verification] [Signature details] Signature c14n: "http://www.w3.org/2001/10/xml-exc-c14n#"
[9:00:08 AM] mendAS4-1492498805741-0@21X000000001018M_37X000000000054S[15422433-bf2a-4b91-81c1-e5024447414f@ecg-leipzig.de: [Security verification] Security policy check (signature, UsernameNameToken) performed successfully
[9:00:08 AM] mendAS4-1492498805741-0@21X000000001018M_37X000000000054S[15422433-bf2a-4b91-81c1-e5024447414f@ecg-leipzig.de: [Inbound Receipt Signal Processing] A Receipt Signal has been received for the outbound User Message mendAS4-170418090005-1256@1257, the transaction state has been set to finish.
[9:03:43 AM] mendAS4-170413090259-228@229: This transaction is older than 5 day(s) and has been deleted by the system maintenance process.
```



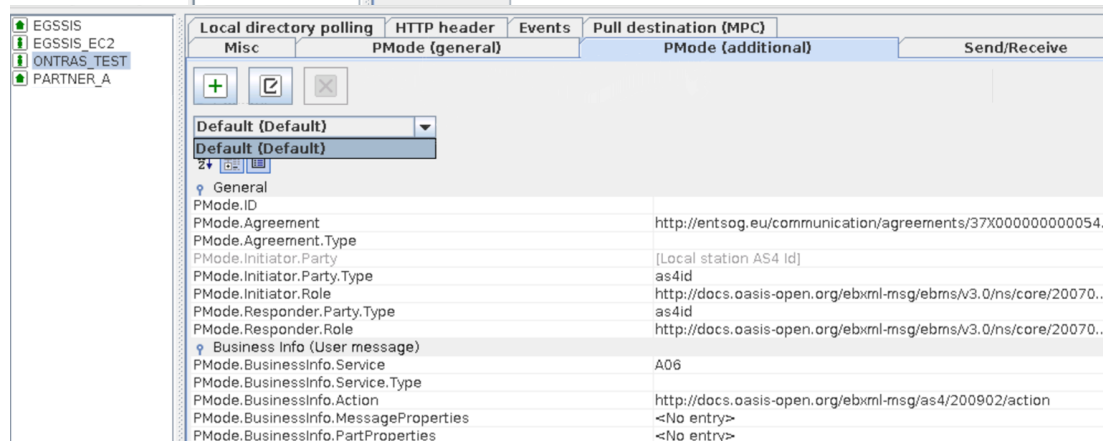
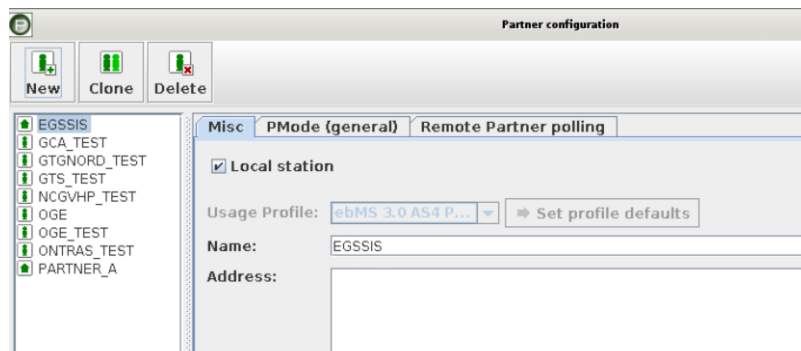
# AS4 Configuration as Solution Provider

Multiple “Local Station” definitions

Generic private key, or user-specific

Message routing to dedicated folders

Partner with multiple profiles



# AS4 (Solved) Compatibility Issues

- Signature of elements (messaging, body, payload...)
- Encryption of mandatory elements, even if empty
  - e.g. Encryption of Receipt Signals (ebMS specs)
- ENTSOG v2.0 / ENTSOG v3.0
- SOAP matching W3C Schemas
- All software solutions still more or less  $\beta$
- ...

# Thanks for your attention

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