ENTSO-E Transparency Workshop

Data providers for the central information transparency platform

30 January 2014

Web services for EDI (IEC 62325-504 draft)

entsoe

Reliable Sustainable Connected

Agenda

- What are web services?
- IEC 62325-504 main characteristics
- Messages
- Security
- Available services
- Network Configuration

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What are web services?

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- Service available on **Internet** (or Intranet)
- **Based on W3C standards:** http, xml, schema, xml-signature, soap, wsdl, etc.
- **Not tied** to OS or programming language.
- **Self descriptive**: WSDL
- **Common and widely supported** integration technology.

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IEC 62325-504 (draft) main characteristics

- Based on IEC standard **IEC 61968-100**
- Supports binary and xml payload (**IEC 62325-451-x**)
- **Flexible**: Actors can be client, server or both.
- **Simple**: only 4 services.
- **Secure**: based on Digital Certificates for transport, authentication, and signature.

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IEC 62325-504 Messages

~3000 chars.
~3Kb

= 2.97 Kb

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Security

- **Confidentiality: two-way SSL** (https) for transport layer.
- **Authentication / Authorization**: User certificate.
- **Non-repudiation:** XML Digital signature.
- **Point 2 Point communication**: No payload encryption required.

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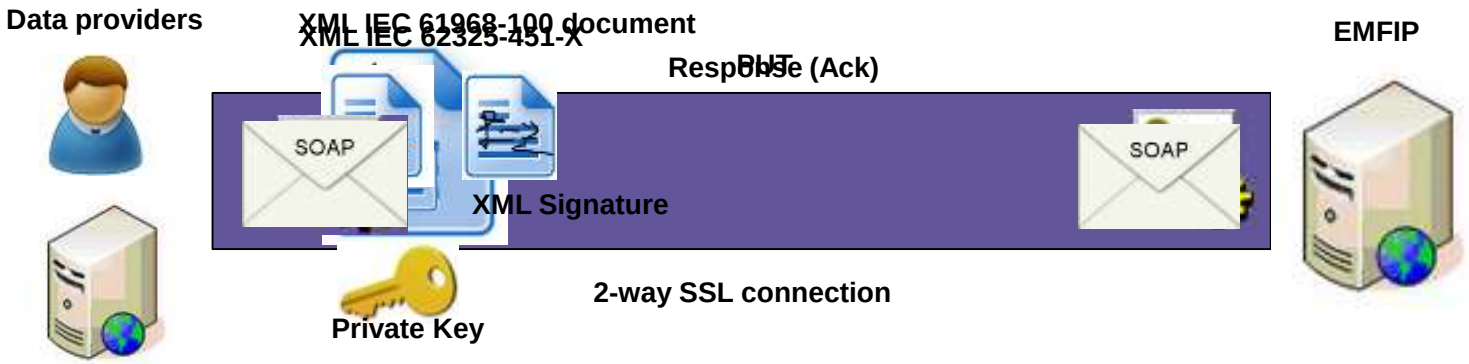
Available services: Put

- Send a message to the server and receive a response.
- **XML** or binary* content may be sent to the server. (* not used in EMFIP)
- Meets **EMFIP** requirements for data submission and push.



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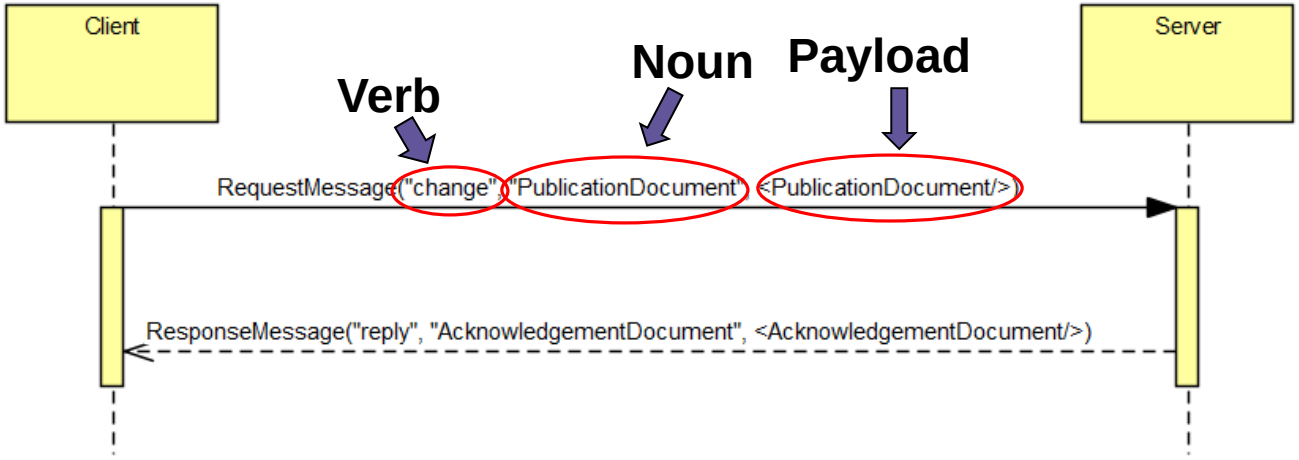


Available services: List

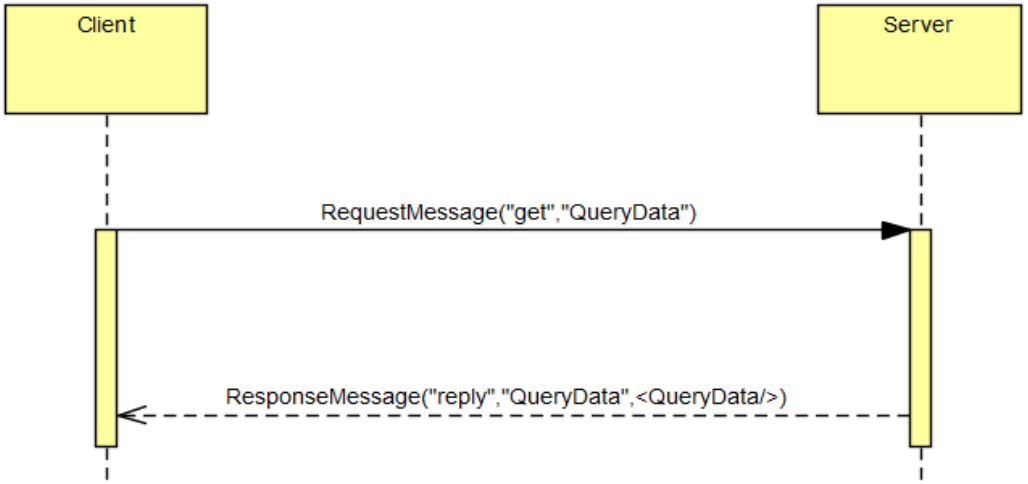
- Obtain a list of messages available to the client.
- **Filters** can be used in the request.
- Meets **EMFIP** requirements for data retrieve.

Available services: Get

- Retrieve a message (previously sent messages, acks, publications)
- Messages can be retrieved via **queue,** message identification or code**.**
- Meets **EMFIP** requirements for data retrieve.

Available services: Query

- **Optional** service.
- Not used in EMFIP.
- Intended for dynamic data: Host time, news....



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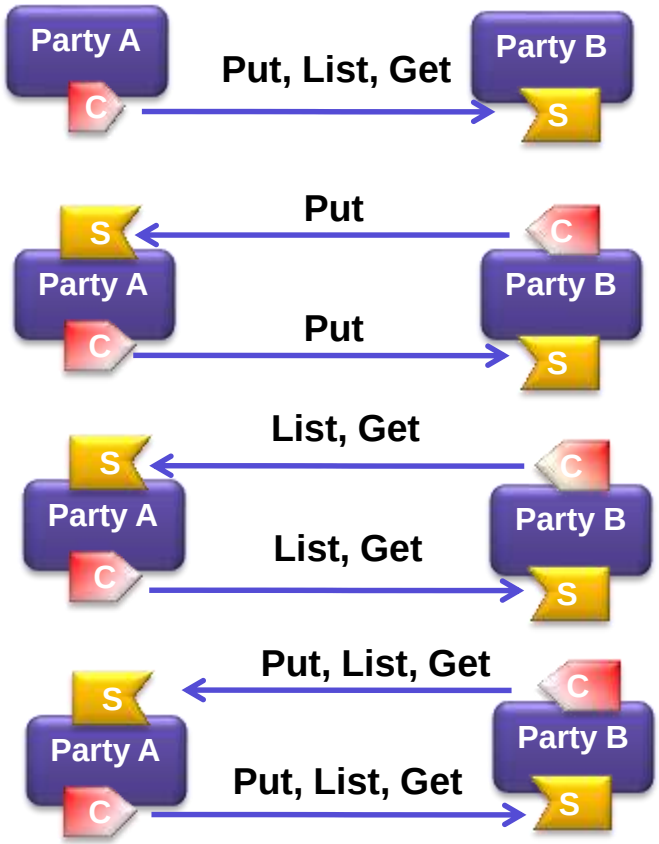
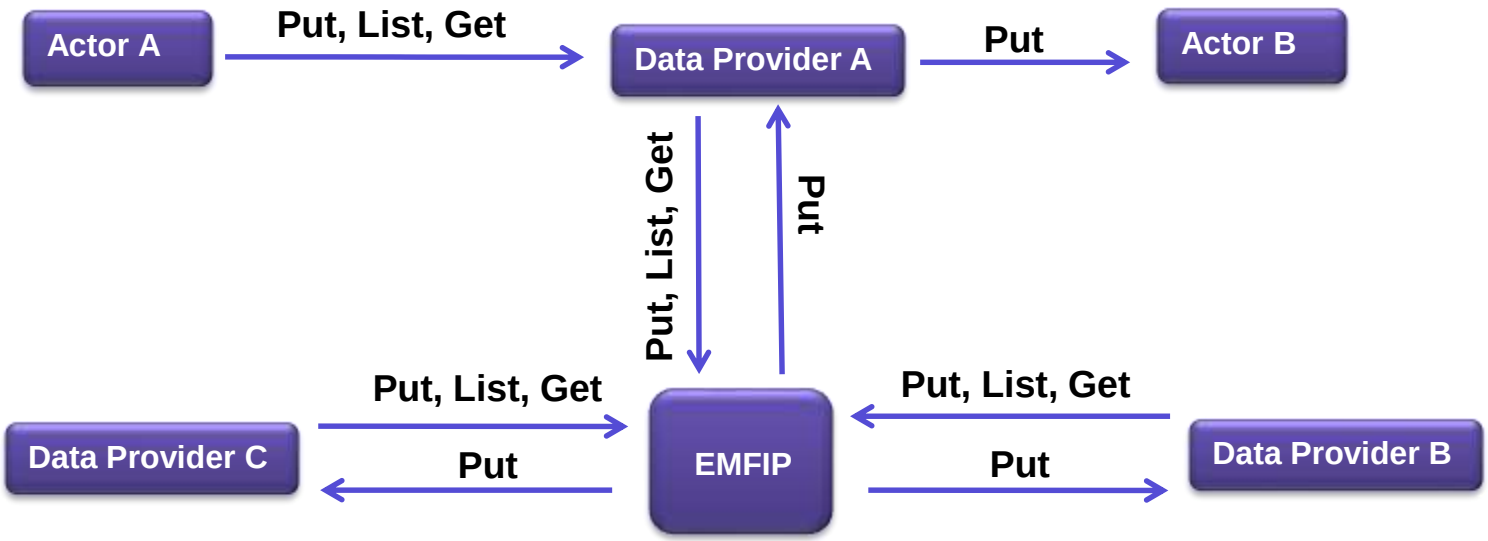
Network configuration

- Client - Server
- Symmetric pushing
- Symmetric pooling
- Fully symmetric



Network configuration

P2P ≠ only 2 actors.



Thank you!

Thank
you
Merci
Gracias
Grazie
Biyan
Juspaxar
Shukria
Shukuria
Tashakkur
bolzin
Paldies
Maake
gozaimashita
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Tingki
Komapsumnida
Mehrbani
Ekhmet
Arigato
Dankscheen
Yaqhanyelay
Efcharisto
suksama
Spasibo
Makotai
Maitoka
Medawagse
Waboeja
Merci
Sanco
Dankaaja
Fakaasye
Bailka
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Mimmonchar
Atto
Garjtha
Merastawhy
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