



EUROPEAN MIDDLEWARE INITIATIVE

Concerning the EMI-ES and security

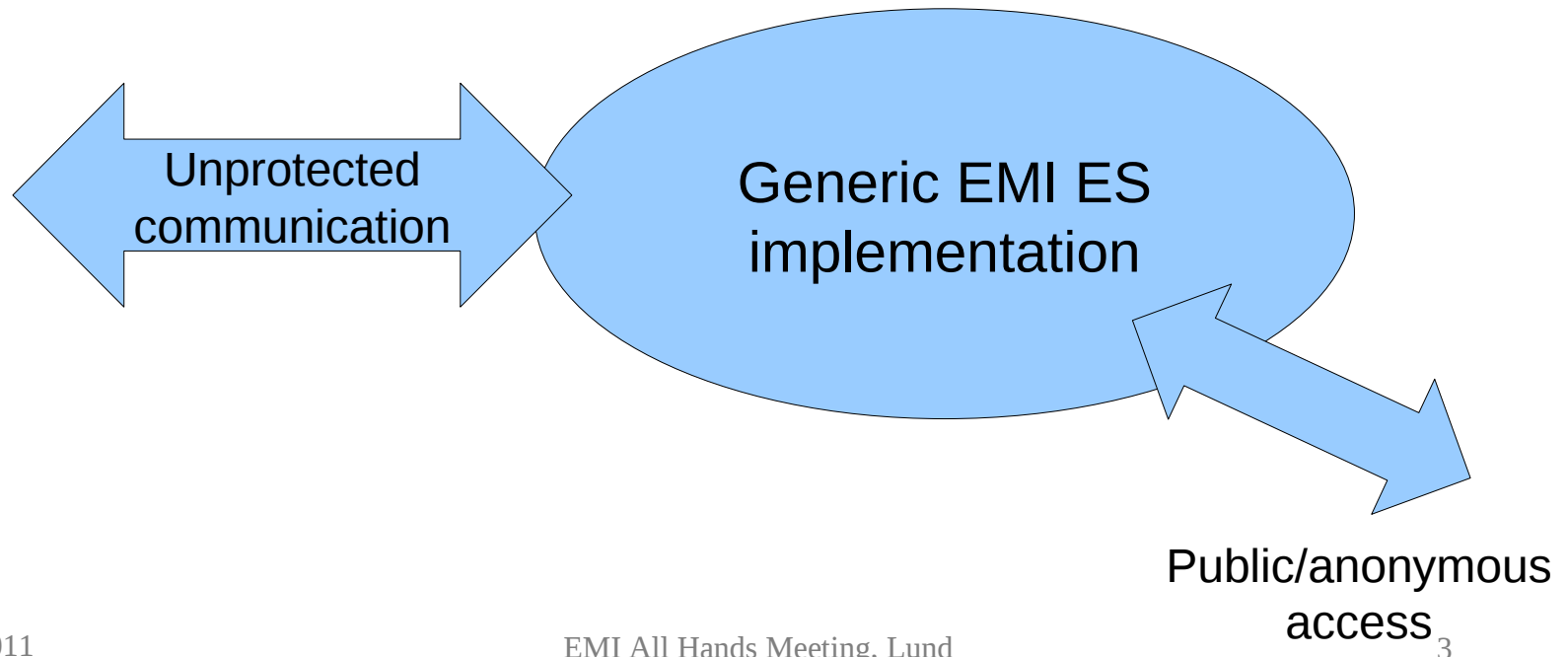
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EMI Execution Service

- EMI ES Interface definition
 - Specs released December 20, 2010
 - Deliberately focusing on job activities and related data management
 - Most of security left overboard
 - Authentication
 - Authorization
 - Only minimal support for delegation kept
 - Very tightly coupled to data management

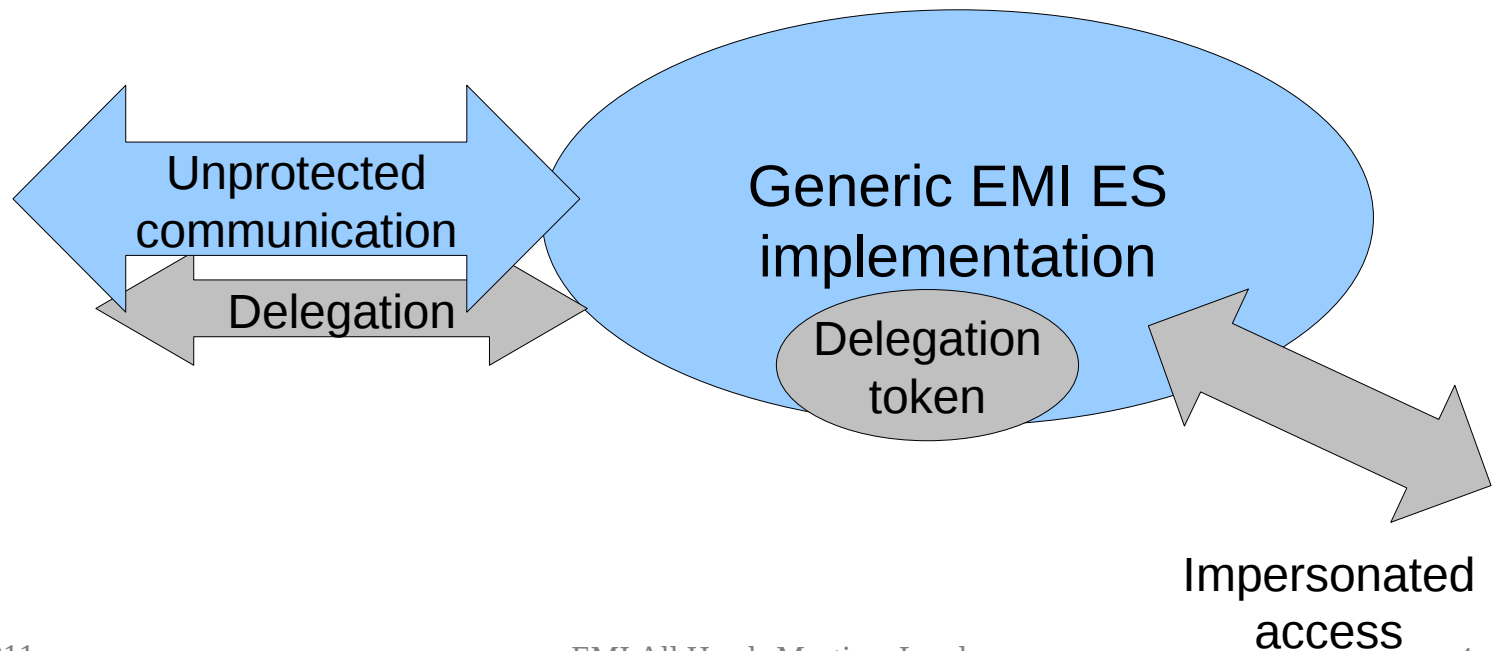
EMI Execution Service - in specs

- Minimal ES - unprotected
 - Useless nowadays



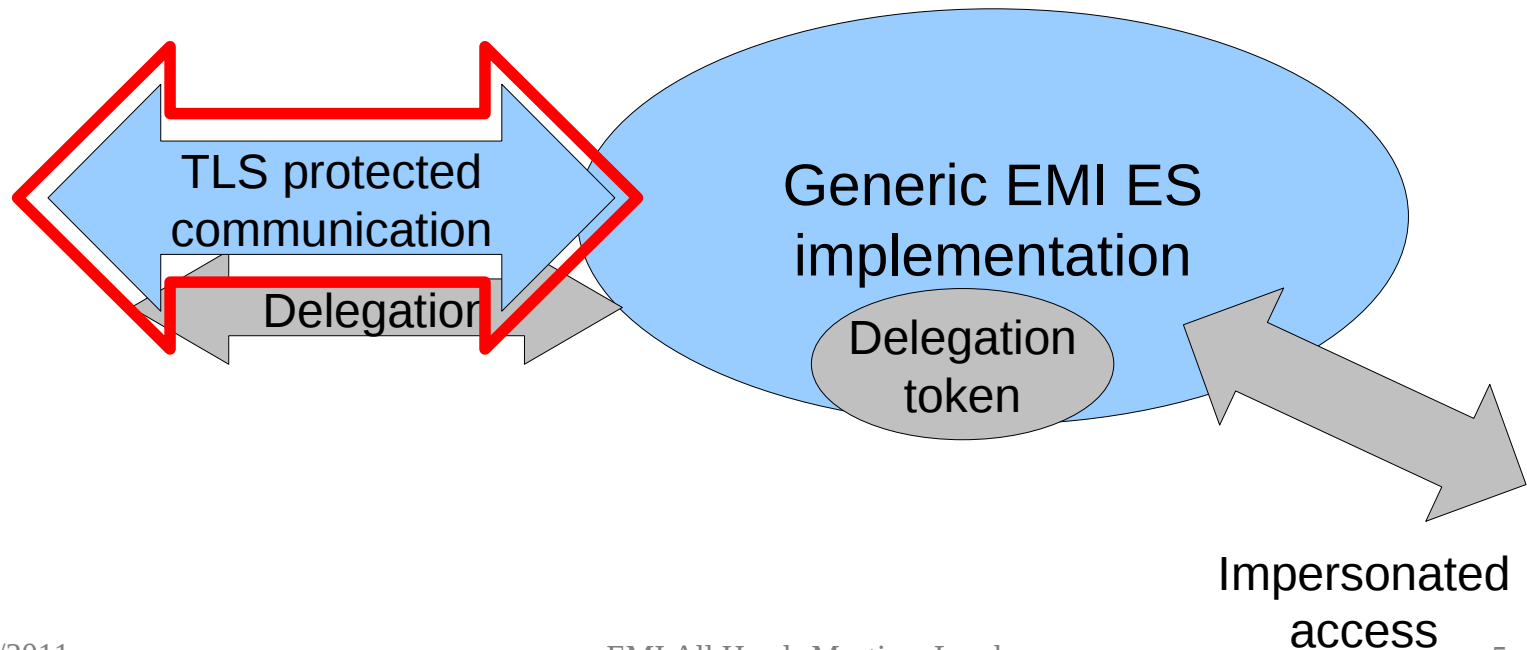
EMI Execution Service - in specs

- Minimal impersonation/delegation
 - X.509 – for data access
 - Own simple interface
- Alternative – GridSite Delegation



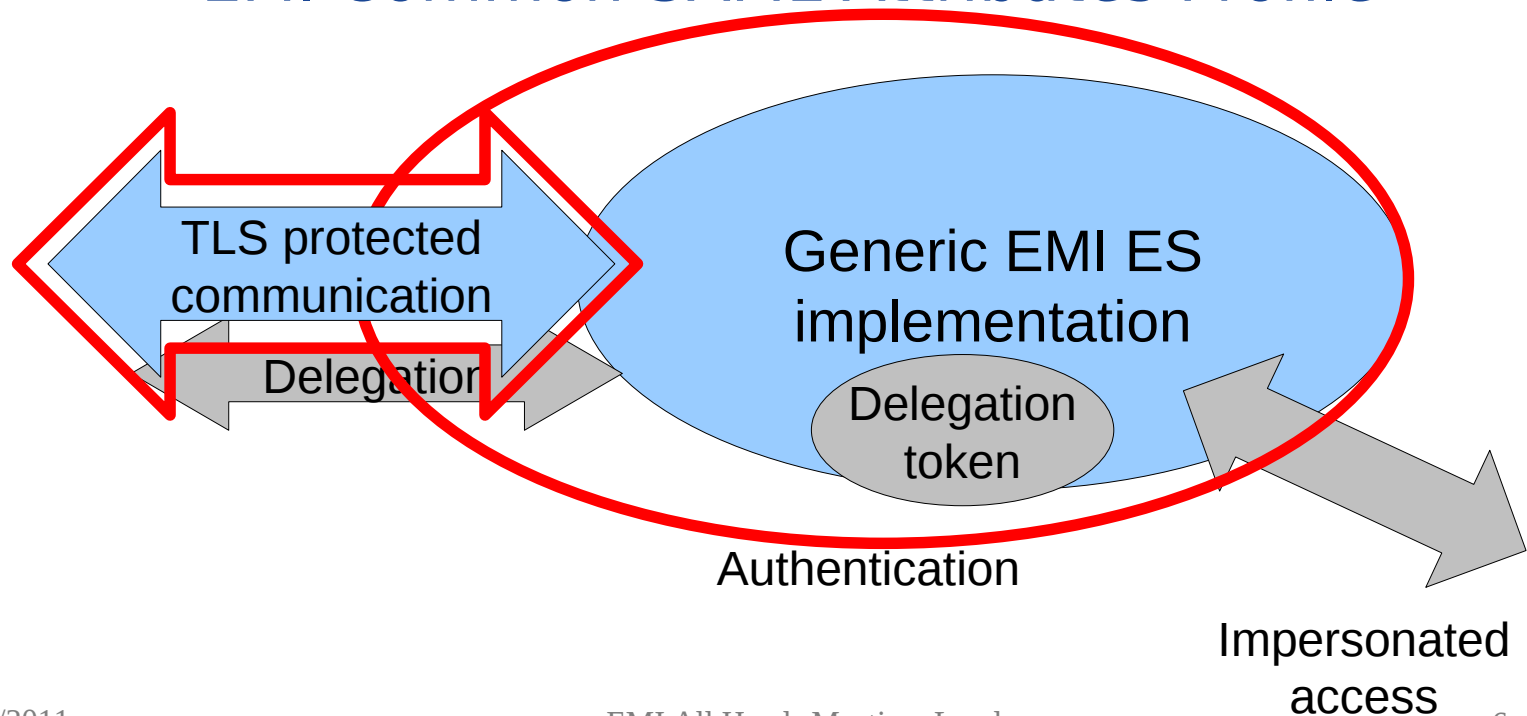
EMI Execution Service - not in specs

- Communication protection
 - It is common to use TLS here
 - OGSA Basic Security Profile 2.0 (OGF)



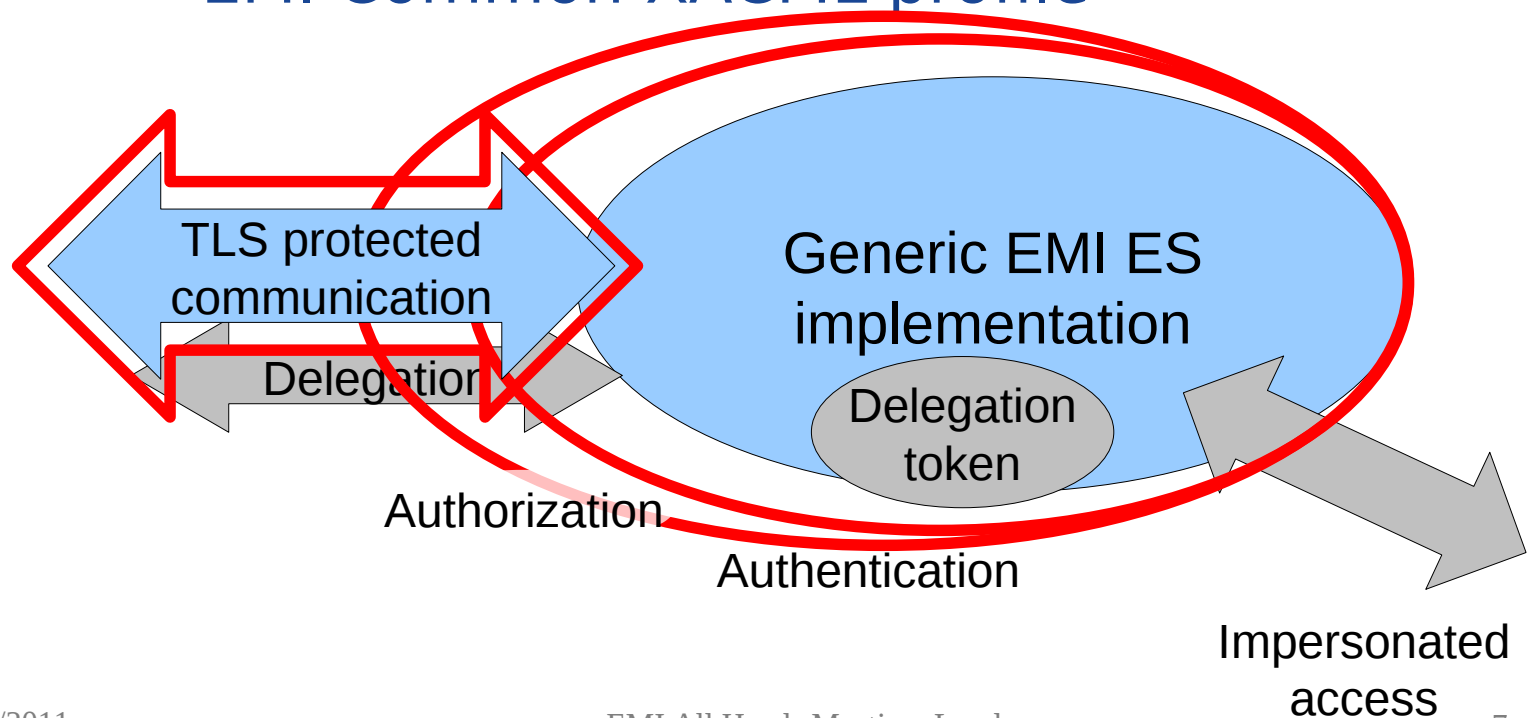
EMI Execution Service - not in specs

- Authentication
 - Part of TLS - X.509 identity
 - SAML token
 - EMI Common SAML Attributes Profile



EMI Execution Service - not in specs

- Authorization
 - *Terra incognita* or too well explored?
 - EMI converging on Argus
 - EMI Common XACML profile



EMI Execution Service

- Basic things defined
 - Still some things unclear
 - Implementations should reveal shortcomings and requirements for EMI Security Group.
- Next iteration to happen later during EMI



Thank you!

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