

SECURITY TRUST AND IDENTITY

Ζήνων Μούσμουλας
Χαλήλ Αδέμ

Trust and Identity services

- ΔΗΛΟΣ aka GRNET AAI
- eduroam
- *certificate services (TCS)*
- *GRNET-CERT*

GRNET AAI



- some history & milestones
- where we stand today
- what lies ahead
- what the future brings

AAI: history & milestones

- 2006-2008: the early days (VNOC)
 - experimentation with shib 1.x, SAML 2.0 first impressions
- 2009-2012: AAI at scale
 - Εύδοξος, GUNET identity
 - first version of policy, WAYF
- 2012: eduGAIN (mesh) in production
 - 2013Q4: ~oceanos-global launched

AAI: history & milestones cont'd

- 2014-today: SAML goes mainstream
 - R&E membership more ubiquitous
 - web SSO wide acceptance
 - administrative services, cloud services
 - publishers, commercial offerings
 - eduGAIN membership (opt-in) increases
- 2015-today: AARC projects
- 2018: eduGAIN footprint
 - 63 member federations
 - 5130 entities (2918 IdPs, 2215 SPs)

AAI: where we stand today

- membership
 - 103 IdPs
 - 79 SPs
- in eduGAIN:
 - 46 IdPs
 - 13 SPs
- SSO employed in "every day" services
 - such as Microsoft Office 365
- HEAL-Link SP-proxy

AAI: what lies ahead

- attribute release streamlining
 - legacy: entity groups
 - attribute requirements
 - entity categories
- metadata query (MDX)
- eduGAIN: switch to IdP opt-out

AAI: what the future brings

- eIDAS interoperability
 - via translation proxy services
- OpenID Connect + federation
- SP-proxy architectures for interoperability, scalable authorization
- adopting more recommendations established in AARC projects

eduroam

- some milestones
- where we stand today
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eduroam: milestones

- 2008: production service in Europe
- 2012: DjNRO
 - web apps for database/management, maps, connect (with CAT)
 - used by other roaming operators: NZ, SE, HU, ZA, SE Asia (XeAP)
- 2014: cat.eduroam.org
 - 2018/10: version 2.0

eduroam: milestones cont'd

- 2014-2015: managed RADIUS service
 - used by some 40 organizations
- 2015: WLAN deployments promoting use of eduroam
 - universities (700 APs)
 - hospitals (900 APs)
- 2013-2017: eduroam in public places
 - Μέγαρο Μουσικής Αθήνα & Θεσσαλονίκη
 - Στέγη Γραμμάτων και Τεχνών
 - ΚΠΙΣΝ
 - Ακρόπολη
 - Μουσείο Ακρόπολης

eduroam: 10 years



eduroam: where we stand today

- membership: 80 institutions
 - 70 IdP+SP
 - 7 SPs
 - 3 IdPs
- stats: successful connections 2018/10
 - national: 367562
 - international: 332078

(source: f-ticks)

eduroam: what lies ahead

- RADIUS/TLS
- GEANT managed IdP
 - EAP-TLS service for small organizations (without IdM)

eduroam: what the future brings

- more, better hotspots!
- WPA3
- passpoint
- govroam?