



EUGridPMA

Status and Current Trends

and some IGTF & AARC topics

December 2019
TAGPMA New Orleans
David Groep, Nikhef & EUGridPMA

Recent EUGridPMA topics

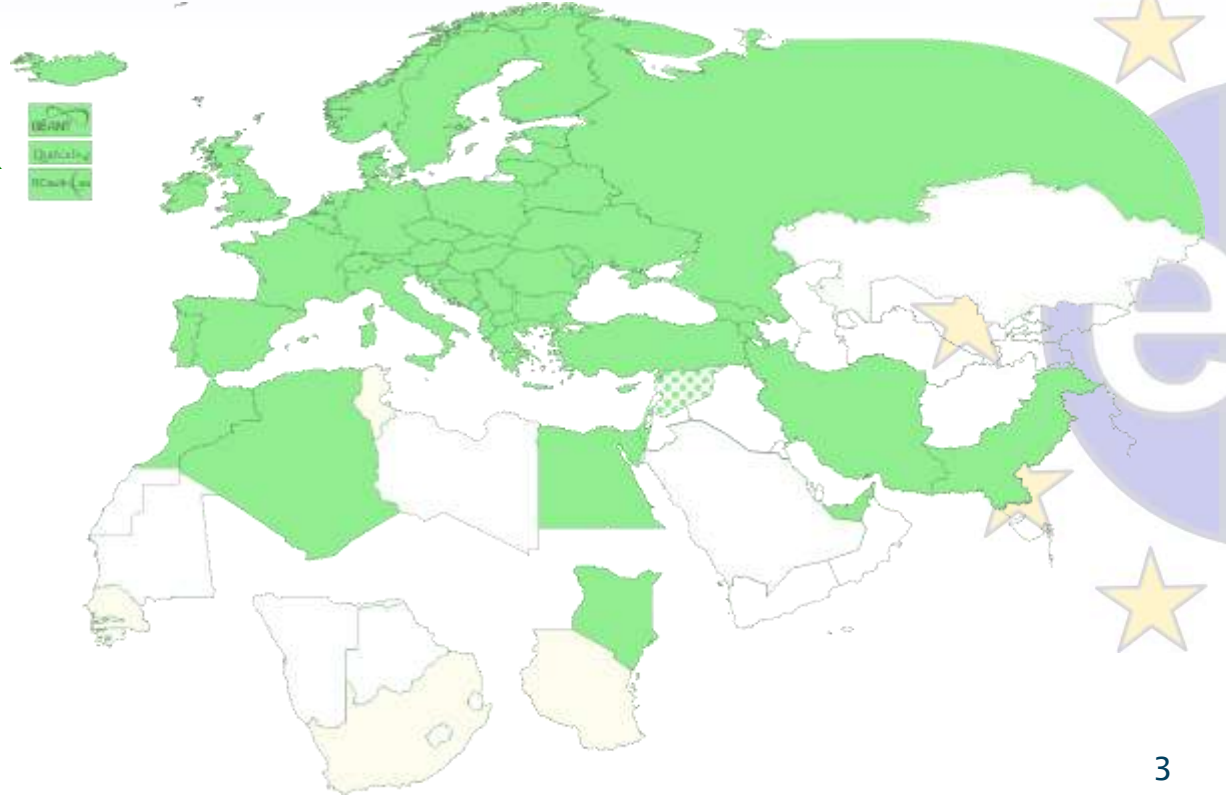
- PMA membership and evolution of authorities
- Communications Challenges and the ‘WISE SCCC JWG’
- OI DCfed

See also the EUGridPMA47 summary:
<https://www.eugridpma.org/meetings/2019-09/>



Authority coverage in EMEA

- Europe: AT, CY, CZ, DE, DK, ES, FI, FR, GR, HR, HU, IT, NL, PL, PT, RO, SE, SI, SK, UK; AM, GE, IS, MD, ME, MK, NO, RS, RU, TR, UA and the GEANT TCS
- Middle East: AE, IR, PK
- Africa: DZ, **EG**, MA, KE
- Multinational:
CERN, RCauth.eu,
QuoVadis (BM)



Membership and other changes

- Responsiveness challenges for some members
 - *PLEASE* take care to renew your trust anchors in time, as well as your CRLs
 - *EG-EUN now temporarily withdrawn for availability reasons*
- Identity providers: both reduction and growth
 - RAuth.eu distributed operations (GRNET, STFC, Nikhef)
 - *using a shared key (and some smart border-guard-proof distribution)*
 - *governance board + PMA + technical team*
- Self-audit review
 - Cosmin Nistor as review coordinator
 - Self-audits progressing on schedule for most CAs


CA Name	Contact	CA Type/Class	CRL	CP and CPS	Start	End	Notes
TR-Grid CA (Turkey) <small>(Authority member) [UK/EE UK]</small>	Pezra Eryol	CA TRGrid (accredited classic)	CERT CRL <small>ca@grid.org.tr</small>	Generic CP and CPS statements	2009-09-29	2018-01-20 (5.2yr)	
Trans-European Research and Educational Networking Association (TERENA)	Lida Florio <small>(27770700)</small>	CP and CPS are not relevant	About TERENA: http://www.terena.org/		2004-04-01	2015-09-06	
UK e-Science CA <small>(Authority member) [UK/EE UK]</small>	Jens Jensen <small>(92107000)</small> David Kelsey	CA UKeScienceRoot-2007 (accredited classic) CRL <small>ca@grid-support.ac.uk</small>	CRL <small>support@grid-support.ac.uk</small>		2000-12-04	2018-01-20 (17.2yr)	
		CA UKeScienceCA-2A (accredited classic) CRL <small>ca@grid-support.ac.uk</small>	CRL <small>support@grid-support.ac.uk</small>				
		CA UKeScienceCA-2B (accredited classic) CRL <small>ca@grid-support.ac.uk</small>	CRL <small>support@grid-support.ac.uk</small>				
Ukrainian Grid CA <small>(Authority member) [UK/EE UK]</small>	Berislav Stenke Oleg Alarion	CA UGRID (accredited classic) CERT CRL <small>ca@ugrid.org</small>	CRL <small>ca@ugrid.org</small>	Generic CP and CPS statements	2008-02-14	2013-09-11 (5.7yr)	



Communications Challenges


Based on *Sirtfi* incident role play of AARC in eduGAIN:
testing communications channels identified as high-prio target
Initial model might be along the IGTF RAT CC challenges – can be extended later

Question	Response summary (9 responses received)
What went well?	The initial investigation was quick and responsive and Sirtfi contacts largely worked. eduGAIN support was helpful and included federation operators.
What didn't go well?	Lack of coordination. Delay in official alert. It was unclear who should be contacted. eduGAIN was brought in too late. The incident trigger was too vague. Investigation incomplete.



Planned progress

- More exercises, coordinated via WISE
- Improve available tooling
- Set defined roles, including a *coordinator*, and promote eduGAIN security capability GN4-*





Proper OpSec needs to be exercised!

Like the IGTF RAT Communications Challenges, and TF-CSIRT processes, opsec really needs to be exercised often and in-depth to ensure readiness

**Logical candidates that could all run the test against IdPs, CAs, SPs, RPs ...
... and 'legitimately' claim an interest in their results**

- eduGAIN
- IGTF
- GEANT.org
- EOSC-HUB ops, or EGI CSIRT
- each of the e-Infrastructures XSEDE, EGI, EUDAT, PRACE, HPCI, ...
- every research infra with an interest: WLCG, LSAAI, BBMRI, ELIXIR, ...
- any institution (or person) with access to <https://mds.edugain.org/>

so soon: all the email in the world will be about Sirtfi Incident Response tests??



WISE SCCC-WG – participate!

WISE Community:

Security Comm

Coordination W

Introduction and backg

Maintaining trust between different responses by all parties involved. A coordinated e-Infrastructures, the contact information, and have either and level of confidentiality maintained verified becomes stale: security of infrastructure may later bounce, or

One of the ways to ensure contact compare their performance against

Dashboard / ... / SCCC-JWG

Communications Challenge planning

Created by David Groep, last modified on Oct 12, 2019

Body	Last challenge	Campaign name	Next challenge	Campaign
IGTF	November 2015		October 2019	IGTF-RATCC
EGI	March 2019	SSC 19.03 (8)		
Trusted Introducer	August 2019	TI Reaction Test	January 2019	TI Reaction

Campaign information

Campaigns can target different constituencies and may overlap. The description of the constituency given here should be sufficient for a detailed description or a list of addresses (which would be a privacy concern since this page is public). Challenges can also probe to differ

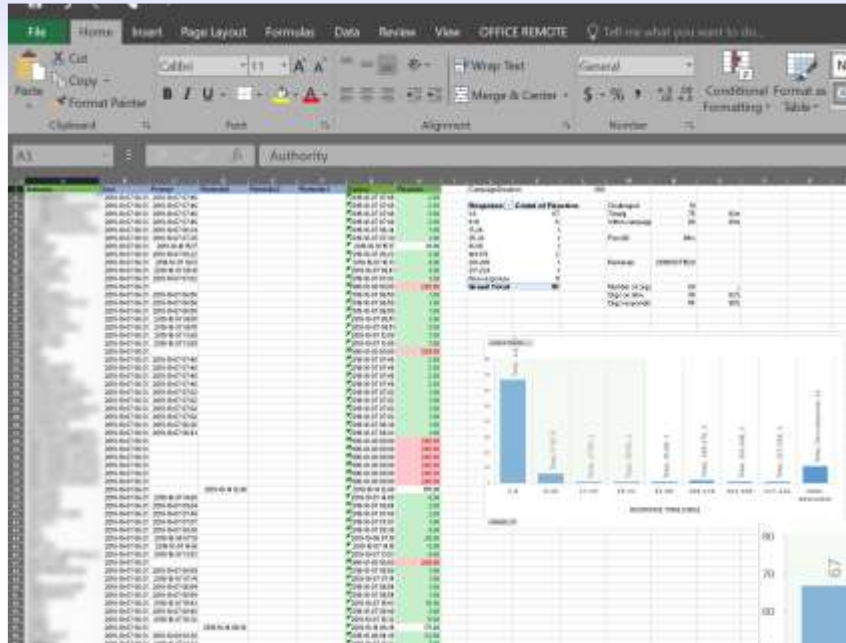
IGTF-RATCC4-2019

Campaign	IGTF-RATCC4-2019
Period	October 2019
Initiator contact	Interoperable Global Trust Federation IGTF (rat@igtf.net)
Target community	IGTF Accredited Identity Providers
Target type	own constituency of accredited authorities
Target community size	~90 entities, ~60 organisations, ~50 countries/economic areas
Challenge format and depth	email to registered public contacts expecting human response (by email reply) within policy timeframe
Current phase	Completed, summary available
Summary or report	<i>Preliminary result: 82% prompt (7 working day) response, follow-up ongoing</i>

WISE, SIGISM, REFEDS, TI joint working group
see wise-community.org and join!

<https://wiki.geant.org/display/WISE/SCCC-JWG>

IGTF RATCC4 Results

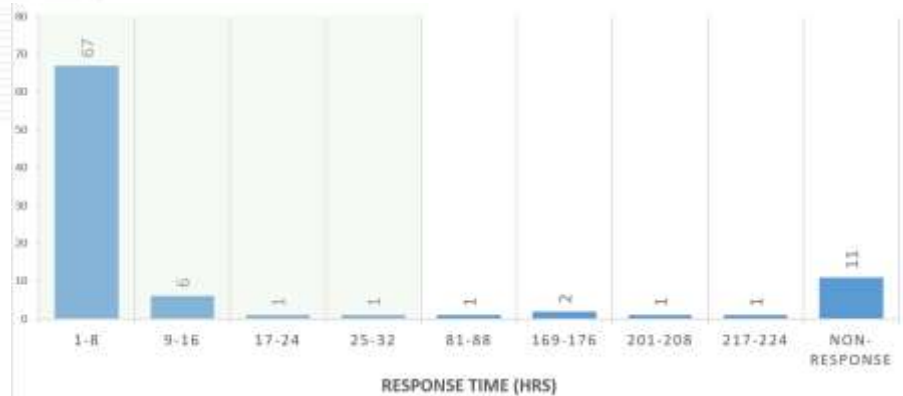


In total there are 91 trust anchors (root, intermediate, and issuing authorities) currently in the accredited bundle, managed by 60 organisations.

Of the 60 organisations, 49 responded within one working day (82%), representing (incidentally) also 82% of the trust anchors.

Within a few days more, 3 additional ones came in, and 4 more responded after a reminder.

In total, 90% of the organisations responded to the challenge, representing 88% of the trust anchors.



And now for something completely different ...

OIDCFED.IGTF.NET






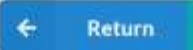

OIDC Federation use cases for communities

Why did we embark on OIDC Fed for global e-Science?

- EOSC-HUB registration of clients
goal for EGI and EUDAT is a scalable and trusted form of OIDC usage.
Today < O(50) clients; next year maybe O(100-1000)?
cloud-based services (containers, microservices) could push that to millions
- CILogon (and XSEDE) use cases see need for a set of policies and practices that support a 'trust anchor distribution'-like service targeting OIDC OPs and RPs and where RPs that are 'in the community' can be identified as such
- ELIXIR (and the Life Sciences) AAI expect growth in # OIDC RPs as AAI extends beyond just ELIXIR and into other biomedical RIs – potentially dynamically created
- All of these need a policy framework, on both the (infrastructure) OPs and on the RPs
- This is the community that traditionally also relied on the IGTF trust anchor distribution

And registering clients does not scale...

Show OpenID Connect Client

Name	hekel.nikhef.nl
Description	Hekel using mod_auth_openidc
Client id.	_f6bfe81892e680e4ecfc3b41ecf1a15d141c0d106b 
Client secret	_  
Auth. source	saml2
Redirect URI	https://hekel.nikhef.nl/rp/redirect_uri
Scopes	openid profile email assurance
 	

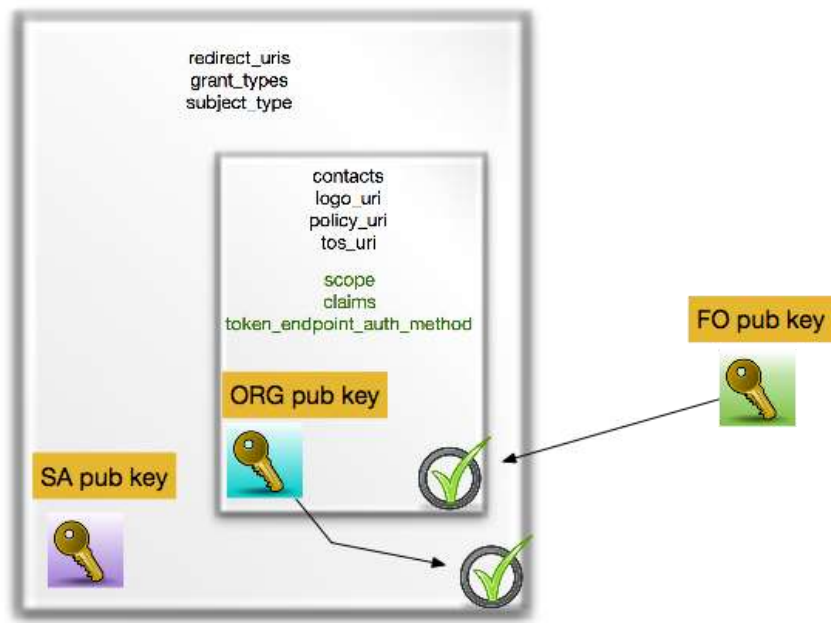
OIDC Fed ‘policy’

IGTF “RP oriented” OIDC Fed can leverage existing framework

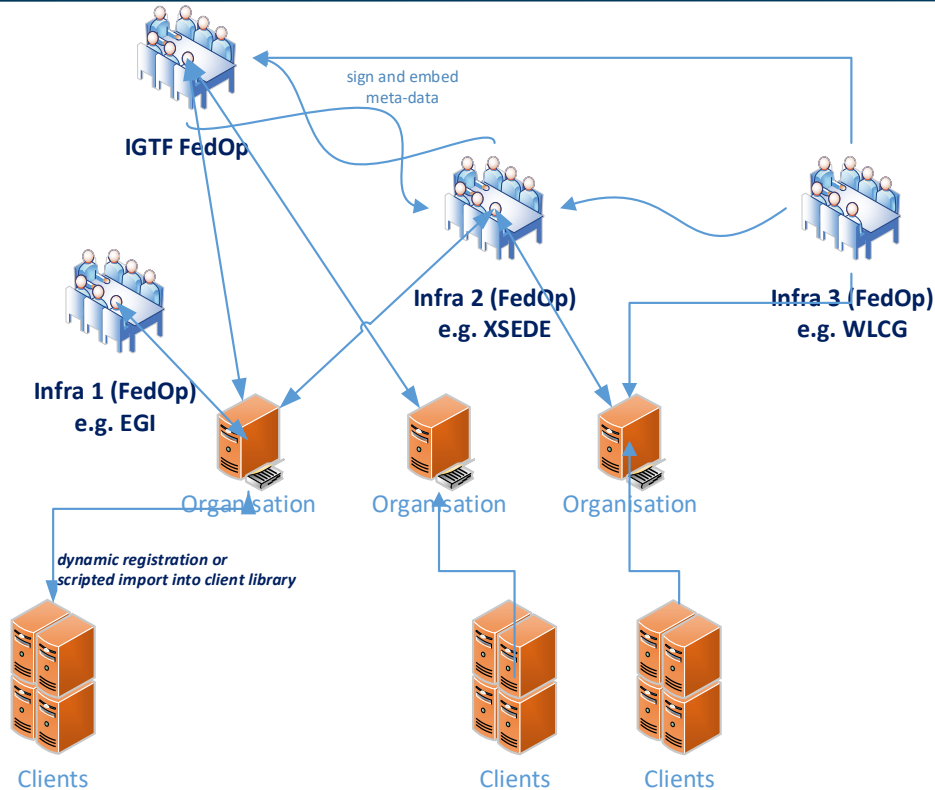
- connect RPs from infrastructures that are IGTF members (EGI, HPCI, OSG, WLCG, GEANT, PRAGMA, PRACE, XSEDE, ...) and new IGTF RP members can join of course!
- Accreditation process and membership guidelines in place
- OPs in the federation (RI/EI IdP-SP-Proxies) use IGTF APs and Snectfi framework where needed
- RPs in the federation become the responsibility of their member representatives
- regional (‘national’) RP groups via their existing authority member
- for RP trust (more than today) re-use Sirtfi, WISE, and trust groups

OIDCfed is basically signing a tree of entities with extensions

we kind-of know building trees and meshed of signed entities work – is this 'just recast it JSON' ?



Or can we do without a single one to rule them all?



- today the RIs and EIs trust the IGTF trust anchors and *may (but do rarely)* add their own
- Can the ‘federation’ be the community and import a commonly trusted set?
- Can the IGTF allow devolved registration *provided* that the trusted organisations implement the same policy controls *Snctfi* and the proper *Assurance Profiles*?

Next meetings

EUGridPMA 48	Prague, CZ	22-24	January 2020
APGridPMA 2020	Taipei, TW		March 9, 2020
EUGridPMA 49			May 2020
IGTF All Hands (& EUGridPMA50?)	Pittsburg, PA, USA		September 2020

