



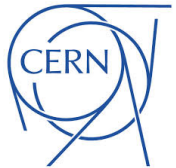
Authentication and Authorisation for Research and Collaboration

Sirtfi Update

Hannah Short

AARC

CERN-IT



REFEDS Meeting

12th June 2016

What have we
done since the
last meeting?



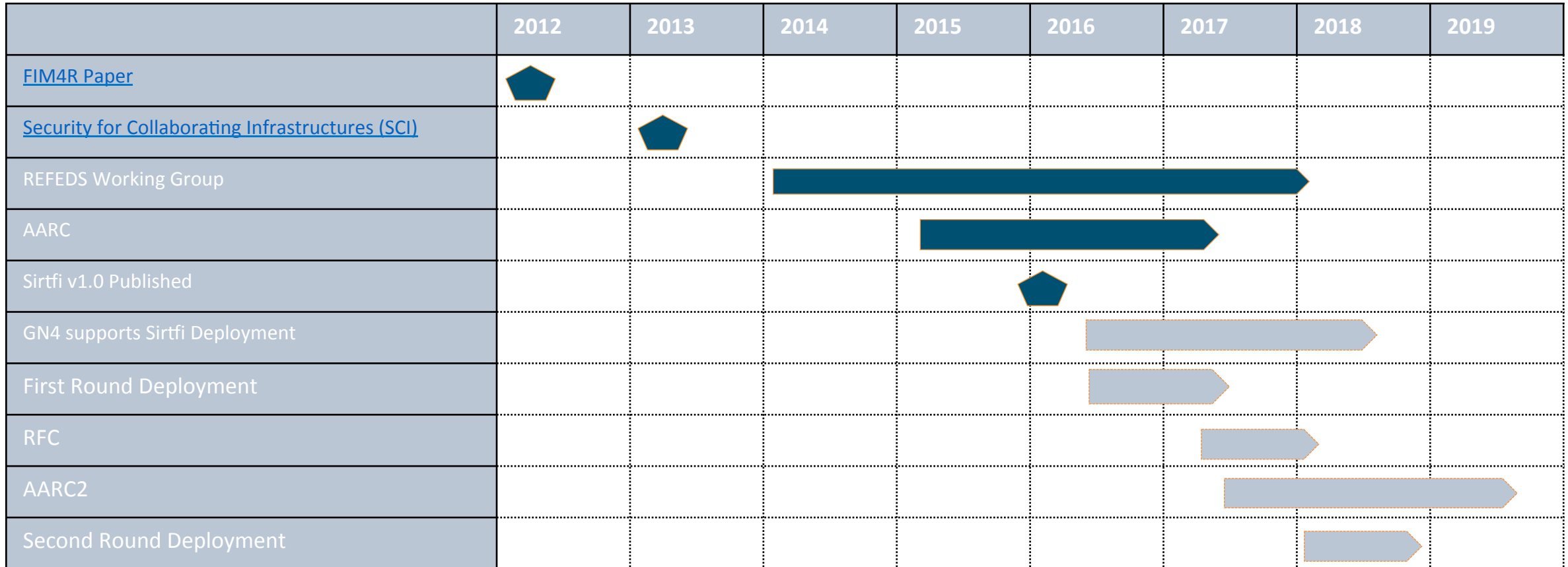
Future plans



What do you
want to do?

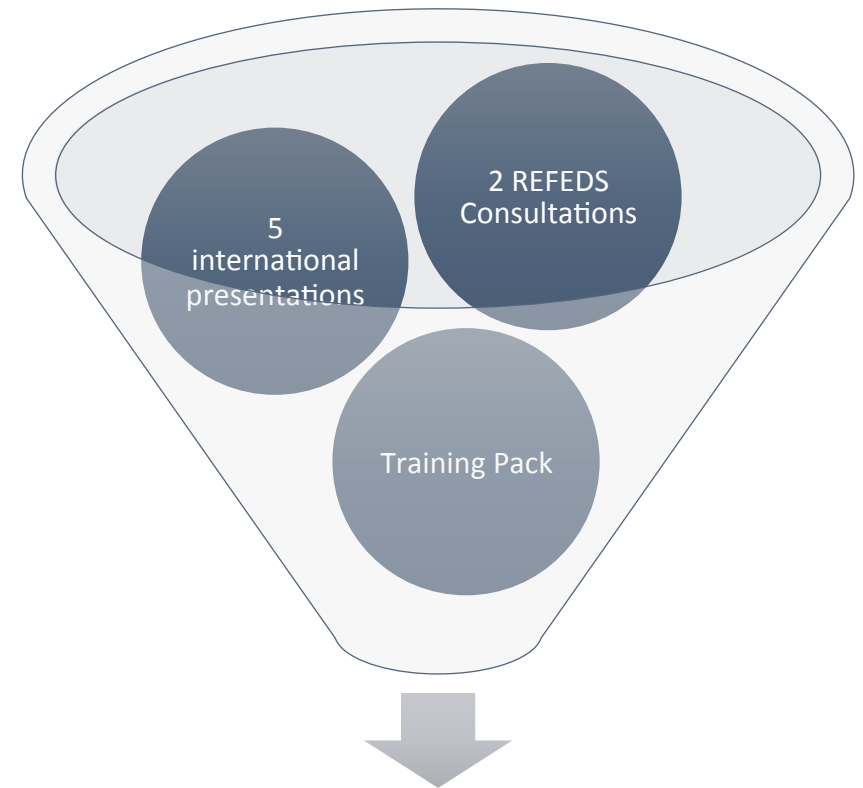
Sirtfi

A timeline



What have we done since the last meeting?

- Big milestone was Sirtfi v1.0, which was published early 2016
- We have been presenting the framework
- We have created training material
- Now federations are interested in actually adopting Sirtfi!



Sirtfi is ready to go!

What have we done since the last meeting?

Training Material



AARC

Sirtfi


A Security Incident Response Trust Framework for Federated Identity

The Security Incident Response Trust Framework for Federated Identity (Sirtfi) provides a mechanism to identify trusted, operationally secure eduGAIN participants and facilitate effective incident response collaboration. Sirtfi has been developed with input from Identity Federation communities worldwide and aims to provide a scalable safeguard against inevitable future attacks.


Is your organization part of an identity federation?
Make security a priority by adopting Sirtfi.

The problem

The growth and inter-connection of federations has created a new vector of attack. One compromised account can provide access to a multitude of services across the inter-federation community.



The quality of operational security at organizations is variable and often unknown to other participants. There is typically no minimum level of security to join a federation. Consequently, there is no guarantee of effective collaboration between organizations in the event of an inevitable federated incident.



The Problem: organizations are choosing to opt out of eduGAIN, or block authentication, due to lack of trust.

The solution

Since a centrally coordinated incident response capability within the community does not exist, participants must collaborate to mitigate the risk of incidents.


Sirtfi describes practices and attributes that identify an organization as being capable of participating effectively in incident response. The framework identifies preventative measures to protect an organization from attack, and behaviour to adopt in the event of an incident. By adopting Sirtfi, an organization asserts that it can meet the following points:

- Provide security incident response capability with sufficient authority to investigate, contain, and remediate the effects of an incident
- Assure confidentiality of information exchanged
- Identify incident security contacts
- Guarantee a response during collaboration
- Record and share relevant system generated information
- Encrypt such information to keep secure
- Guarantee that information is kept secure
- Confirm that end users are not at risk

The Solution: a Trust Framework

Why should I join?

Sirtfi is used as an identifier to make trusted partners within eduGAIN. Compliance is expressed in metadata and gives a transparent view of those organizations willing to engage in collaborative incident response.



The credibility gained by asserting Sirtfi compliance opens doors within eduGAIN as organizations choose to enable authentication based on this enhanced trust.

SPs Gain access to useful services that only allow authentication from Sirtfi compliant SPs

Guarantee an efficient and effective response from partner organizations during incident response


Raise the bar in operational security across eduGAIN

SPs Gain users whose home organizations only allow authentication at Sirtfi compliant SPs

How can I join?

Are you part of an identity federation? Just follow the steps below:

- Test your organization
- Ensure that your organization satisfies all Sirtfi requirements
- Choose a Sirtfi Contact
- Use the Checklist Below to help
- Assess your compliance
- Work with your Federation Operator to achieve Sirtfi compliance



Get started at [Sirtfi Home](#)

REFEDS Spaces

SIRTFI

Pages

Blog

PAGE TREE

- Guide for Federation Participants
- Guide for Federation Operators
- Choosing a Sirtfi Contact

SIRTFI Home

Created by Nicole Harris, last modified by Hannah Short on Apr 13, 2016

Welcome to the Sirtfi Technical Wiki

Sirtfi is the Security Incident Response Trust Framework for Federated Identity. For background information on Sirtfi please visit the [Sirtfi Homepage](#).

Where to start?

REFEDS


Home Blog Wiki Meetings Sponsor Federations Our Work About

SIRTFI

REFEDS > SIRTFI


The Security Incident Response Trust Framework for Federated Identity (Sirtfi) aims to enable the coordination of incident response across federated organisations. This assurance framework comprises a list of assertions which an organisation can attest in order to be declared Sirtfi compliant. Visit our [Wiki](#) to discover how your organisation can prepare itself for Federated Incident Response with Sirtfi.

REFEDS' Sirtfi Working Group has been active since 2014 and combines expertise in operational security and incident response policy from across the REFEDS community. Work to publish and implement the Sirtfi Trust Framework is supported by the [AARC Project](#).




Benefits

Why should I join? What are the **Benefits**?



Sirtfi v 1.0

View the [Sirtfi Framework](#)



FAQs

Need [help](#)?

What have we done since the last meeting?

Events

- Webinars and in person presentations
- Security response workshop held at ISGC
- Discussions moving beyond FIM world, talking with SWITCH Security and TF-CSIRT

Event	Location	Date
EWTI (European Workshop on Trust and Identity)	Vienna	01 Dec 2015
ISGC (International Symposium on Grids and Clouds)	Taiwan	15 Mar 2016
Kantara IAWG, Videoconference	US	07 Apr 2016
Internet2 Webinar	US	May 2016
Internet2 Global Summit	US	May 2016
TF-CSIRT	Riga	12 May 2016

What have we done since the last meeting?

Technical Specification

- REFEDS Consultation on managing metadata extensions completed in April
<https://wiki.refeds.org/display/CON/Consultation%3A+Managing+Metadata+Extensions>
- Sirtfi is now on the official list of IANA Assurance Profiles
<https://www.iana.org/assignments/loa-profiles/loa-profiles.xhtml>

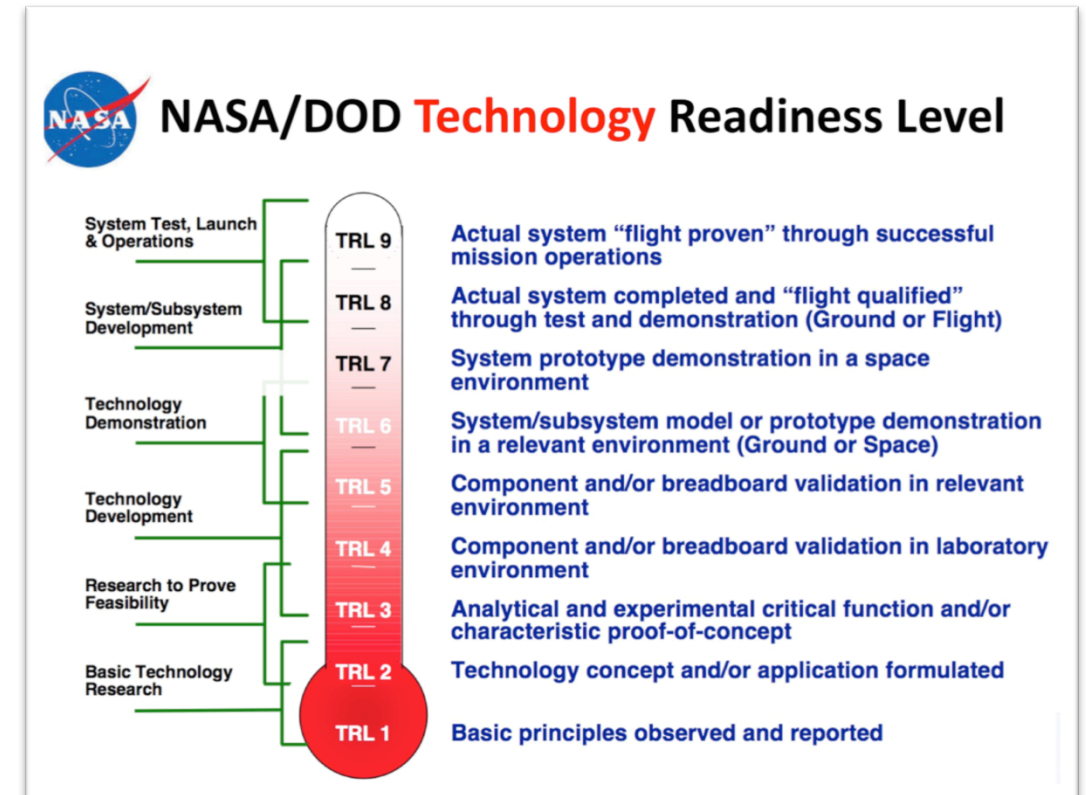
```
<EntityDescriptor ...>
  <Extensions>
    <attr:EntityAttributes>
      ...
      <saml:Attribute NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"
        Name="urn:oasis:names:tc:SAML:attribute:assurance-certification">
        <saml:AttributeValue>https://refeds.org/sirtfi
        </saml:AttributeValue>
      </saml:Attribute>
      ...
    </attr:EntityAttributes>
  </Extensions>
  ...
</EntityDescriptor>
```

```
<ContactPerson xmlns:remd="http://refeds.org/metadata"
  contactType="other"
  remd:contactType="http://refeds.org/metadata/contactType/security">
  <GivenName>Security Response Team</GivenName>
  <EmailAddress>security@xxxxxxxxxxxxxxxx</EmailAddress>
</ContactPerson>
```

Future plans

Deployment – Support from GN4

- GN4 has recognised the value of Sirtfi and will be providing support to move Sirtfi to TRL “Late-stage-pilot”, level 7
- Concrete aims
 1. Push for wide-scale adoption at both hub-and-spoke and full-mesh federations
 2. Push for adoption at key e/r-infrastructures
 3. Troubleshoot propagation problems (i.e. metadata filtering)
 4. Define and test KPIs
 5. Add Sirtfi to Highly Recommended eduGAIN practices



Future plans

AARC DNA3.2 Incident Response Procedure

- Sirtfi will form the basis for the “Generic Security Incident Response Procedure for Federations”
- Due January 2017
- Will need to expand on Sirtfi to include
 - Workflows for incident scenarios
 - Interaction with existing policies
 - ...

Deliverable Name	WP	Owner	Due at month (M)
DNA1.1 Summary of main dissemination activities, main achievements of AARC for and Exploitation Report	NA1	GÉANT	23
DNA2.1 Report on the identified target groups for training and their requirements	NA2	GÉANT	3
DNA2.2 Training material on main technical and policy concepts of federated access	NA2	GÉANT	5
DNA2.3 Training material targeted to Resource and Service Providers	NA2	CSC	9
DNA2.4 Training material targeted to Identity providers	NA2	GARR	14
DNA3.1 Differentiated LoA recommendations for policy and practices of identity and attribute providers	N3	CSC	23
DNA3.2 Generic security incident response procedure for federations	NA3	CERN	20
DNA3.3 Recommendation for service operational models for enabling cross-domain sustainable services	NA3	CERN	21

Future plans

SCIV2



- WISE Working group SCIV2 <https://wiki.geant.org/display/WISE/SCIV2-WG>
- SCI document needs some care and attention...
- Incident Response may have an update

- **Come to the WISE BoF this Wednesday!** <https://tnc16.geant.org/core/event/21>

Future plans

Events

- Moving away from theory and towards proof-of-concept presentations
- The security workshop at ISGC proved an interesting exercise and it would be worth repeating 😊
- Much of this outreach work will be moved to GN4

Event	Location	Date
TNC-16	Prague	June 2016
CIC (15 US Universities)	Michigan	July 2016
TechEx16	Miami	September 2016
TF-CSIRT	Zurich	October 2016
GN4	?	December 2016
EWTI	?	December 2016

Future plans

Country Updates – NL

- **Live for IdPs!**
- Using SURFcert as Security Contact Proxy
- SPs on TODO list



Future plans

Country Updates – U.S.

- Technical work needed
 - Changing from uncommon to refeds namespace
 - Would want formal definition of framework, akin to Entity Category Definition
- Outreach work needed
- May leverage REN-ISAC's ~10,000 Security Contacts to get started



Future plans

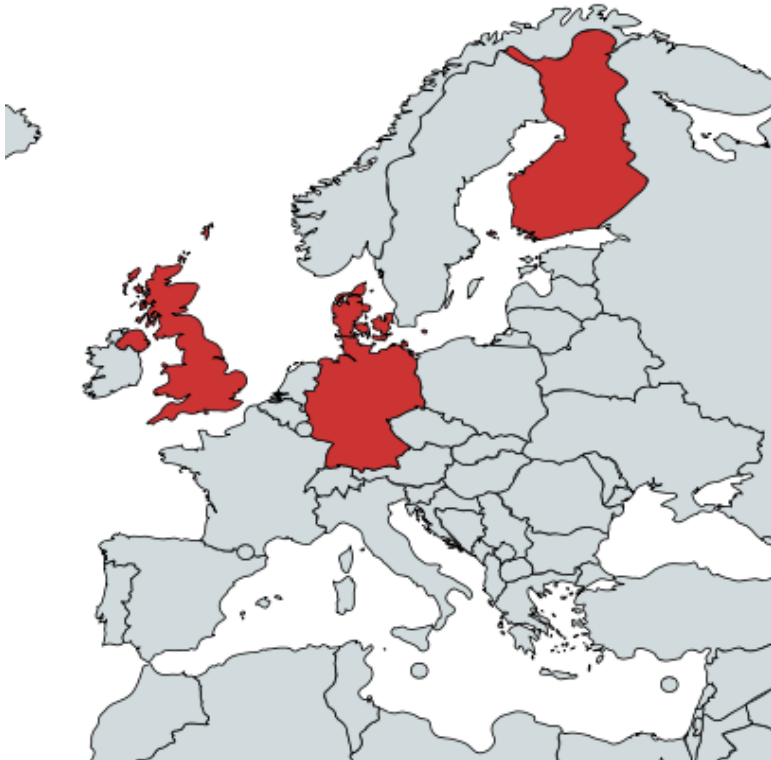
Country Updates – CH

- Aims to support Sirtfi by Autumn
- Strong support from SWITCH Security Team



Future plans

Deployment - Pilots



Interest from Denmark, Finland, Germany and UK.

Want to be on this map? Come and find me over coffee ☺

Sirtfi is also being incorporated as a requirement for other services, e.g. CERN Services & CiLogon Pilot. To help this, AARC will work on a Pilot for a Sirtfi Discovery Service.

Number of Sirtfi Compliant Entities...

87!

What do you want to do?

How can we show which entities are Sirtfi compliant?

- In the spirit of borrowing InCommon's good ideas...
- There have been several discussions about having a Sirtfi logo
- There is budget in AARC to get this done
- A visual indication of trust would act as a mark of confidence and hopefully encourage other organisations to take a look

What do you think?

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- The badge logos consist of multiple elements: the logotype



Downloadable Badges



[InCommon Participant EPS file](#)

[InCommon Participant GIF file](#)

[InCommon Participant PNG file](#)

[InCommon Participant JPG file](#)





Security Incident Response Trust
Framework for Federated Identity



Security Incident Response Trust
Framework for Federated Identity



SIRTFI

Security Incident Response Trust
Framework for Federated Identity



Security
Incident Response
Trust Framework
for Federated Identity



Security Incident Response Trust
Framework for Federated Identity



Security Incident Response Trust
Framework for Federated Identity



SIRTFI

Security Incident Response Trust
Framework for Federated Identity



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Framework for Federated Identity



SIRTFI



SIRTFI

Security Incident Response Trust
Framework for Federated Identity

What do you want to do?

Missing Material

Suggestions include:

- An official REFEDS doc akin to an entity category specification
<https://refeds.org/category/research-and-scholarship> to define attestation duration, the relationship between organisations and IdPs/SPs
- Guidance on ensuring currency of contact details – should fed ops ping them regularly?

What do you think?

Thanks

- Sirtfi Working Group for their time, ideas and enthusiasm
- REFEDS Community for their support and input to Consultations
- Licia and AARC for the funding and focus
- Various individuals from AARC who have helped put the training material together

Thank you

Any Questions?

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<https://aarc-project.eu>



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