



2023 INTERNET2
TECHNOLOGY
exchange

Federation Manager:
A Collaboration

Presented By:

Johnny Lasker | Principal Service Integration Engineer | Internet2

Jonathan Gabel | Developer | Alfa Jango

Mark Donnelly | Director of Engineering | Painless Security

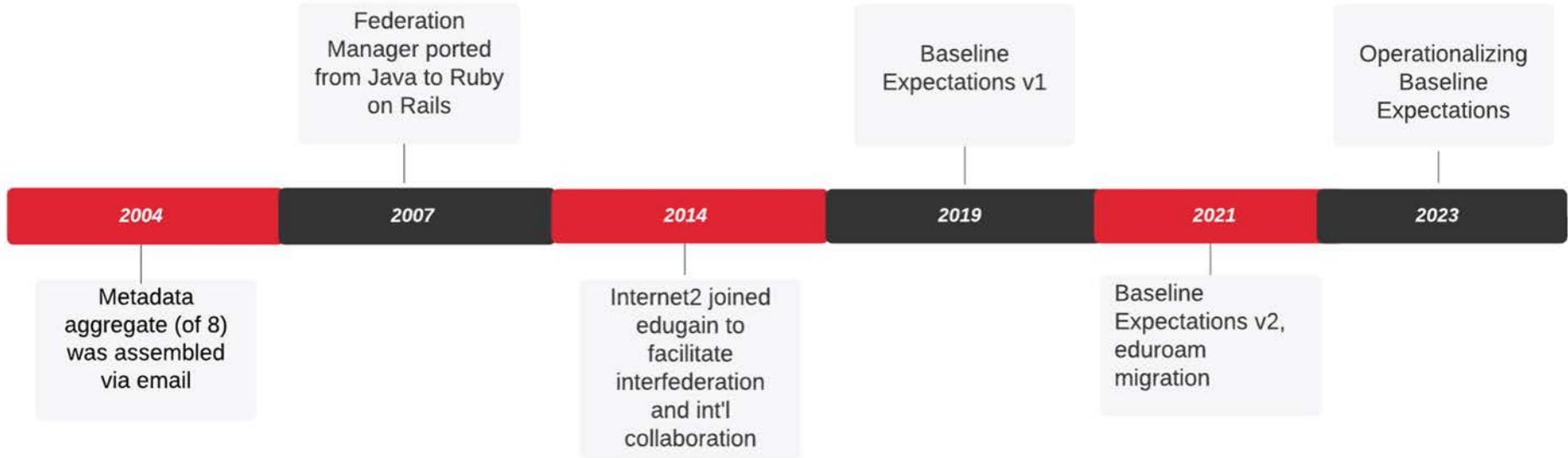
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Introductions

- **Johnny Lasker**
 - 23 years in IT (previous life as a developer)
 - 10 years in HEIT (7 years at EDUCAUSE + 3 years at Internet2)
- **Jonathan Gabel**
 - 12 years in web development
 - 20 years teaching in higher education
- **Mark Donnelly**
 - 27 years in IT
 - 11 years working with IAM in higher education

A Brief History of the Federation Manager



Services

InCommon®



InCommon



Federations summary

Country:

Total: 76

Export ▾

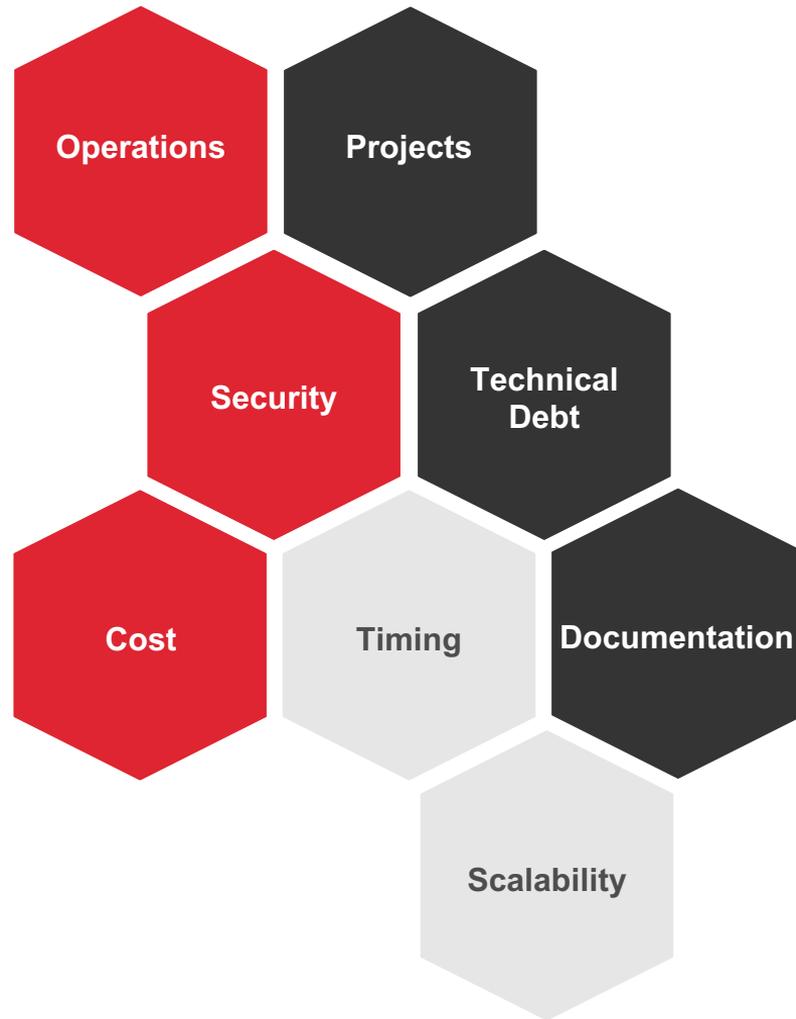
NAME	COUNTRY	ENTITIES	IDP	SP	AA
InCommon Federation	United States	13115	5458	7678	2

<https://met.refeds.org/>

Extended Federation Manager Team

Internet2 InCommon	Alfa Jango	Painless Security	Unicon
Service Management Operations Architecture Security DevOps Maintenance Policy QA	Architecture Development Security Maintenance	Architecture Development Security Maintenance	DevOps QA Data
IJ Kim Nick Lewis Nicole Roy Albert Wu Sara Jeanes Angi Sizemore John Krienke Sally Ricks Deianna Tyler David Shafer Johnny Lasker Andrew Scott Grant Bierly Rebekah Ahrens Thomas Pratt Romy Bolton Mike Zawacki	Jonathan Gabel Julia Iwinski Harsh P Biscuitwala John Hoinville Emily Jeanes	Mark Donnelly Sebastian Ramirez Margaret Cullen	Dominic Martinez Steve Erickson Ben Quinata

Multiple Lenses

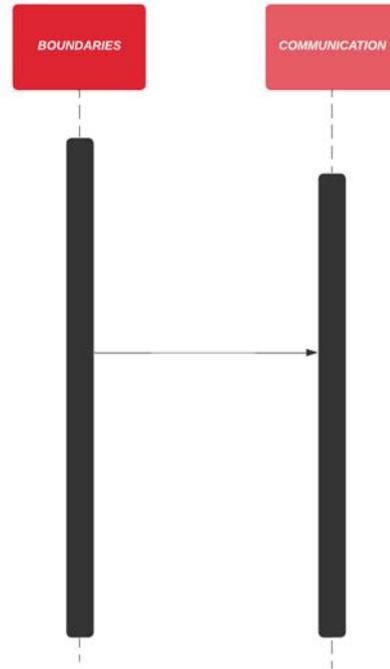


How We Work - BOUNDARIES

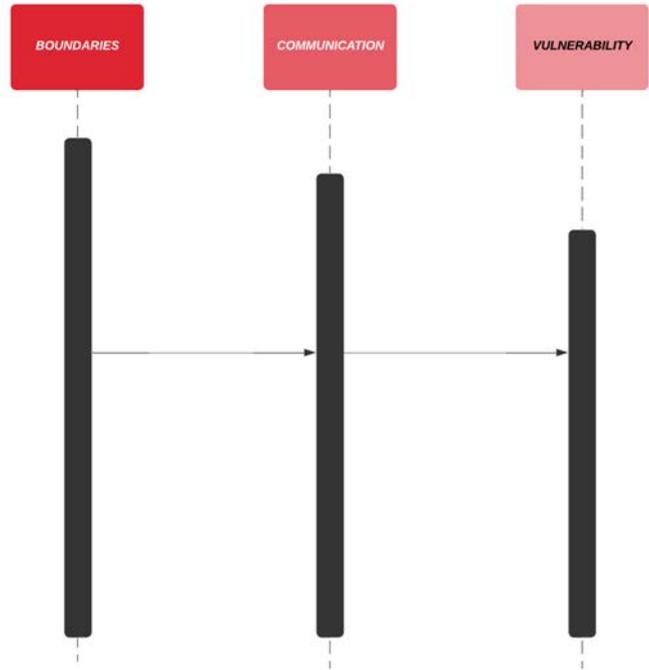


BOUNDARIES

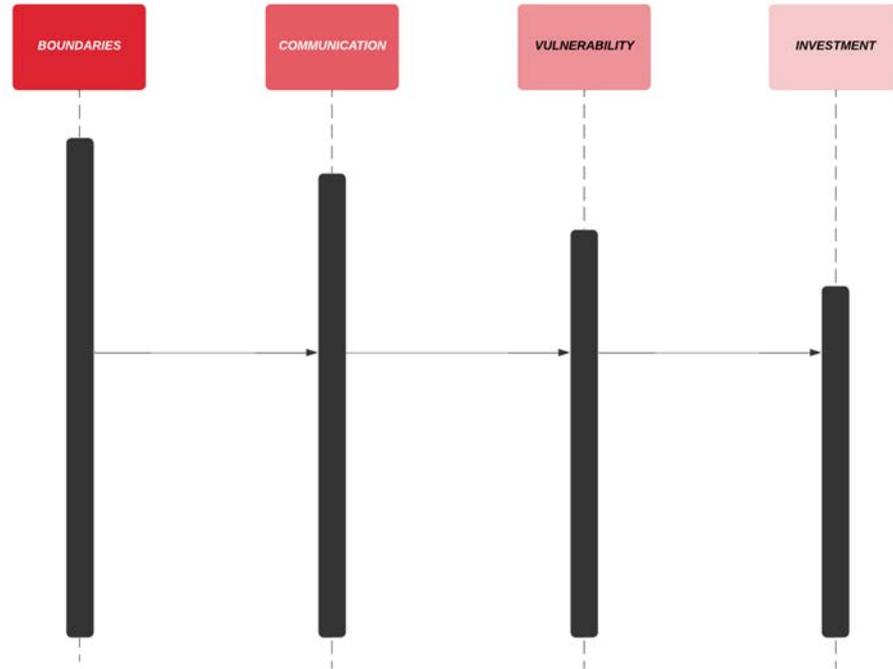
How We Work - COMMUNICATION



How We Work - VULNERABILITY



How We Work - INVESTMENT



Collaborations: eduroam Migration - 2021

- Federation Manager Hosting move to AWS
- National infrastructure move
- Migration of existing users, organizations, configurations
- IAM platform enrollment, effectively doubling the user population
- Leveraging existing workflows as well as adapting new ones
- Communications, Communications, Communications

eduroam Dashboard



Federation Manager : [Cottage Inn Pizza](#)

Your Support Organization : Internet2 - Alfa Jango Test Suite 3



Dashboard Support Organization Dashboard Manage eduroam Administrators Log Viewer Testing Help ▾

Your Current Roles ▾ jlasker@internet2.edu

eduroam Dashboard

Submitted

Organization

Review and Submit

Contacts

Service Location

Service Locations

eduroam Hotspots

Review and Submit

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
Harsh's Community	42.2801118	-84.45661109999999	WPA2		

Hotspot RADIUS Servers

Friendly Name	Host
Test2	172.168.0.16

Collaborations: Operationalizing Baseline Expectations - 2023

- Standing up AWS SQS messaging
- Periodic and on-demand entity scans
- Endpoint encryption trend data
- URL and Contact health checks
- Scalable, externalized check system
- Enhanced visibility into Federation metadata health

Metadata Health

View/Edit Identity Provider

EntityID: <https://TechEx23.com>
 Scope: TechEx23.com

Published

Endpoint Encryption Score

A+

Monday August 28, 2023

[More Information](#)

Contacts

User Interface Elements

Error URL

IdP SSD Settings

Signing/Encryption Keys

Entity Attributes

Metadata Export Options

Attribute Authority

Metadata Health

Review and Submit

Entity Checker

View/Scan Your Entity's **PUBLISHED** Metadata Health Status.

- Entity scans evaluate metadata URLs and endpoint encryption
- Contact health is evaluated separately from entity scans
- Entity scans are conducted periodically and available on-demand

Initiate New Scan

- Scans can take up to 10 minutes, refresh page for results
- You can initiate a scan once every 6 hours
- Next available scan at: 2023-09-07T12:39:30:363Z

Scan

Contact Health Status

Name	Role	Email	Contact Health	Timestamp
Robert Brown	Administrative	rbrown@be2.com	Healthy	Thursday September 07, 2023
Benjamin Graham	Technical	bgraham@be2.com	Healthy	Thursday September 07, 2023
Luke Shaw	Security	lshaw@be2.com	Unhealthy	Thursday September 07, 2023

URL Health Status

URL Type	URL Health	Reason	Timestamp
PrivacyStatement.URL	Healthy	200	Thursday September 07, 2023
Logo.URL	Healthy	200	Thursday September 07, 2023
Error.URL	Unhealthy	404	Thursday September 07, 2023

TLS Endpoint Encryption Scores

Score	Timestamp
A+	Monday August 28, 2023
A	Tuesday July 25, 2023
N	Saturday June 10, 2023
B	Tuesday May 16, 2023
A	Friday April 21, 2023
B	Tuesday March 28, 2023

Community Role

- **InCommon Technical Advisory Committee (TAC)**
(TAC) provides recommendations relating to the operation and management of InCommon Federation with respect to technical issues
- **Community Trust and Assurance Board (CTAB)**
CTAB represents the InCommon community in InCommon Federation's trust and assurance related programs and initiatives
- **Community Architecture Committee for Trust and Identity (CACTI)**
The Community Architecture Committee for Trust and Identity (CACTI) is a standing architecture strategy group of community members chartered by Internet2's Vice President for Trust and Identity
- **eduroam Advisory Committee (eAC)**
The eAC provides technical guidance to the CACTI
- **User feedback**
Support tickets, office hours, community events

QUESTIONS?

