

# **International Collaboration and New Services of ASNET-AM**

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# Online Services: Research and Education



# Online Services: Federations benefits



- Ease of use (Single sign-on)
- Trust framework
- Collaboration (nationally & internationally)
- Need for security & privacy

# Online Services: Federations Collaborations



Menu  Search...

Production

43

Argentina - MATÉ

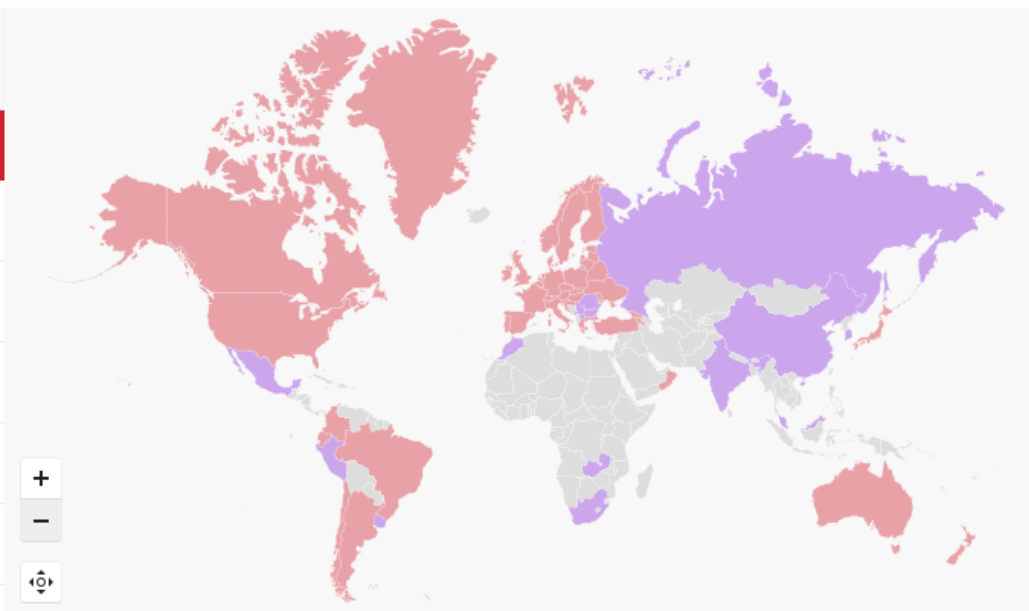
Armenia - AFIRE

Australia - AAF

Austria - ACOnet

Belarus - FEBAS

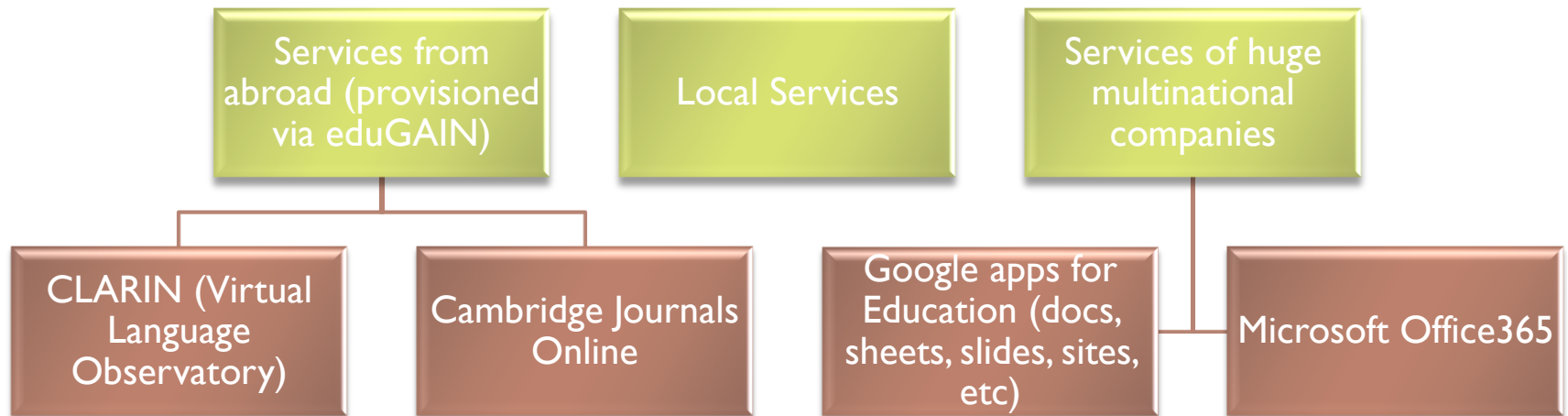
Belgium - Belnet Federation



- ❑ REFEDS (the Research and Education FEDerations group) is to be the voice that articulates the mutual needs of research and education identity federations worldwide.
- ❑ eduGAIN interconnects federations worldwide: interfederation: 2001 Identity Providers, 1141 Service Providers

# Online Services: possible ways

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## AFIRE ISP: File Sender

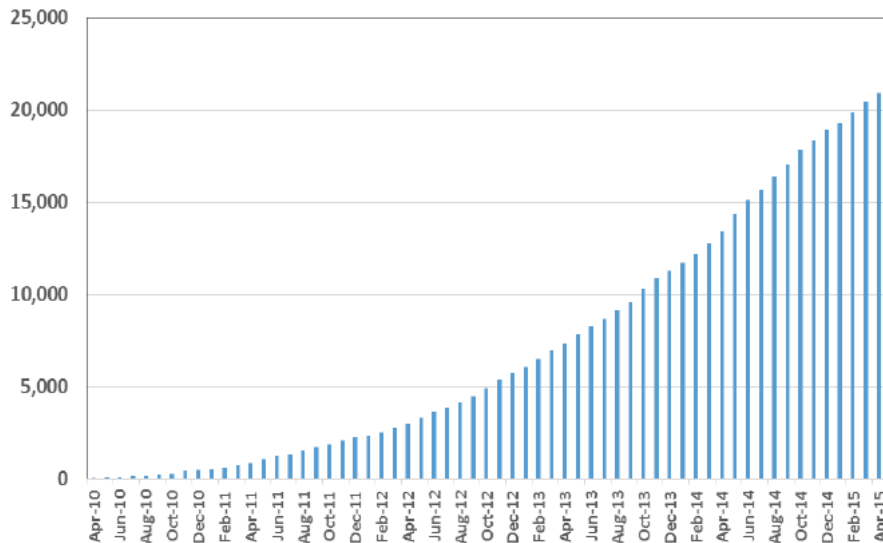
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You need to send a file larger than a couple of megabytes to someone and the email comes back: attachment too big (unfortunately due to security and other reasons the mail servers (both incoming and outgoing) restrict attachment sizes to a maximum of a few megabytes).

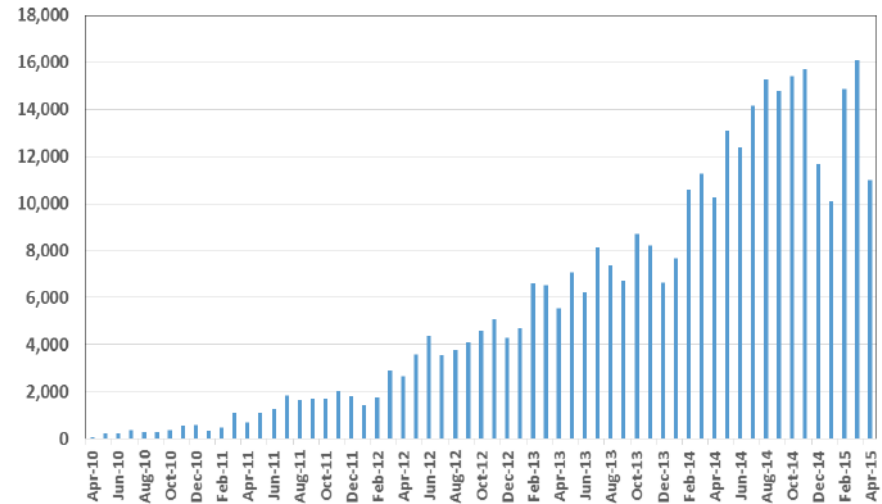


## Australian Statistics

Cumulative User Numbers



Monthly Numbers of Uploads





# AFIRE ISP: File Sender



**FILESENDER**



— an initiative by —



Help

About

1.6 HTML 5 ✓

## Welcome to FileSender

FileSender is a secure way to share large files with anyone! Logon to upload your files or invite people to send you a file.

Logon



# AFIRE ISP: Global File Storage Services

	OneDrive	Dropbox	Google Drive	Box	Amazon Cloud Drive
File size restrictions?	10GB	10GB with website, none with Dropbox apps	5TB	250MB for free plan, 5GB for paid personal plan	2GB*
Free storage?	5GB**	2GB	15GB	10GB	No***
Can I earn extra free storage?	No**	Yes	No	No	No

# AFIRE IsP: File Storage (Drive)

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- User friendly, Personal Storage in the Cloud.
- All your research data stored safely in Armenia.
- Access file anywhere and anytime.

ASNET-AM Drive by pydio
Hrachya Atsatsryan

My Files

Search
+ Create
Upload

Alerts
Bookmarks
My Shares
Folders

My Files

Temp


Recycle Bin

←
Rename
Move
Delete
More

Display | File Info

Filename	Size	Typ	Modified	Tags	Dimer
Temp	-	D...	2015/04/16 14:59		
ArmNGI-IPs-1.doc	76.5 Kb	...	2015/07/16 13:39		
ArmNGI-IPs.doc	76.5 Kb	...	2015/07/16 13:35		
Asnet voip.docx	116.3...	...	2015/04/25 16:16		
EECA_Feedback_form_ICT201...	331.6...	...	2015/11/27 15:19		
NatSupEst-1.ppt	2.99 ...	P...	2015/12/19 09:04		
NatSupEst.ppt	2.99 ...	P...	2015/12/19 09:03		
Surfnet.pdf	332.2...	P...	2015/05/27 14:40		
Recycle Bin	-	R...	2015/07/16 13:37		

Asnet voip.docx



Download
Preview

Edit Share

**SIZE**  
116.33 Kb

**TYPE**  
Word File

**LAST MODIF.**  
Modified on April, 25th 2015

**SHARED** update

You have shared this file via a public link

**PUBLIC LINK**

<https://drive.asnet.am/data/p/...>

DROP FILES HERE
Pydio, open source file sharing

# AFIRE IsP: eLearning



# EduRoam Concept

- ▶ EduRoam is a federated authentication trust framework for wireless networks, which allows roving researchers to login with their standard user name and password

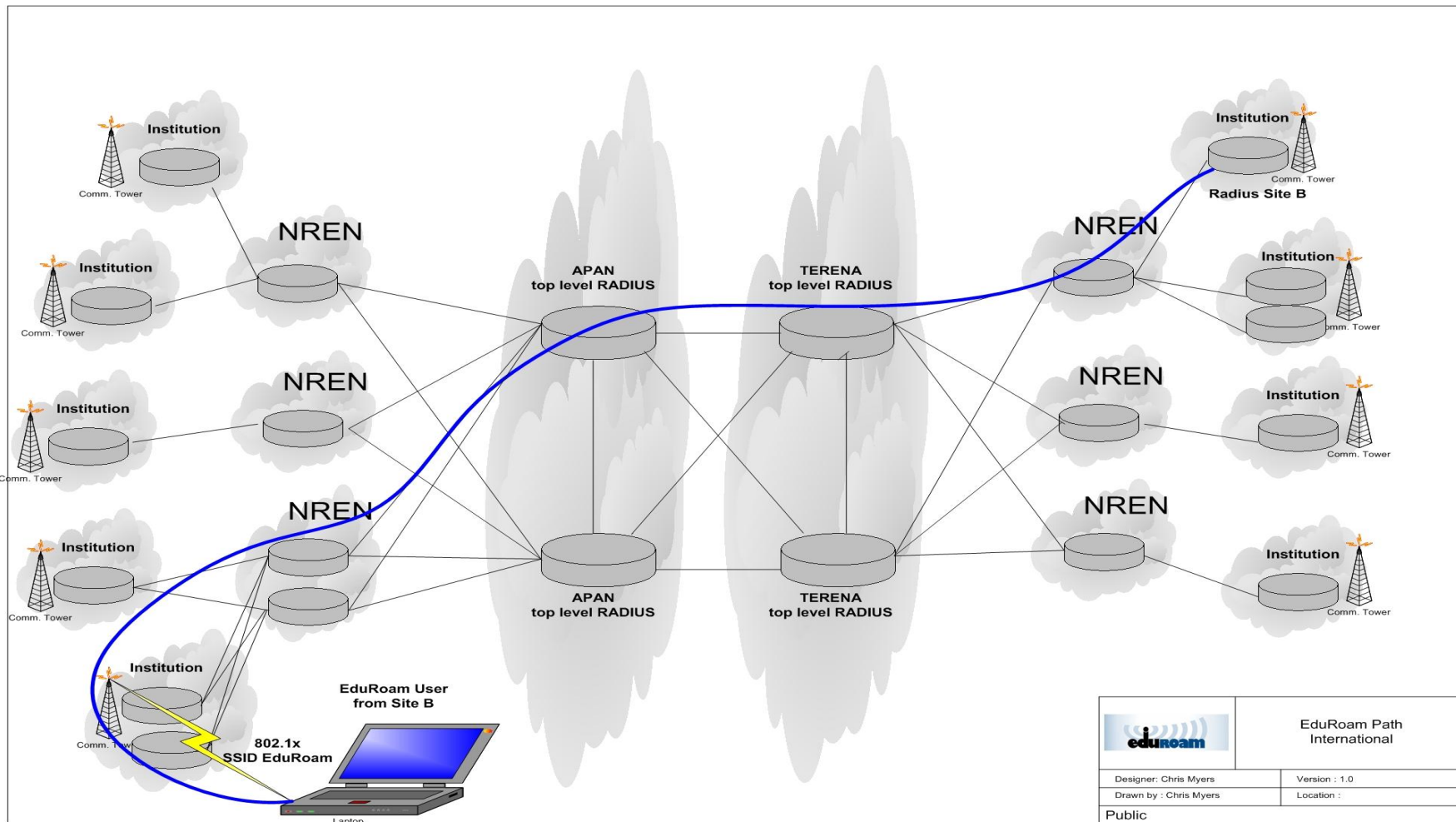


Andorra, Argentina, Armenia, Australia, Austria, Azerbaijan, Belarus, Belgium, Brazil, Bulgaria, Canada, Chile, People's Republic of China, Colombia, Costa Rica, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, Japan, Kazakhstan, Kenya, Korea, Kyrgyzstan, Latvia, Lebanon, Lithuania, Luxembourg, Macau, Macedonia, Malta, Mexico, Moldova, Montenegro, Morocco, The Netherlands, New Zealand, Norway, Peru, The Philippines, Poland, Portugal, Qatar, Taiwan (ROC), Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovenia, Slovakia, South Africa, Spain, Sweden, Switzerland, Thailand, Trinidad & Tobago, Turkey, Uganda, United Arab Emirates, United Kingdom, United Kingdom, United States of America and Zambia

# EduRoam in Europe

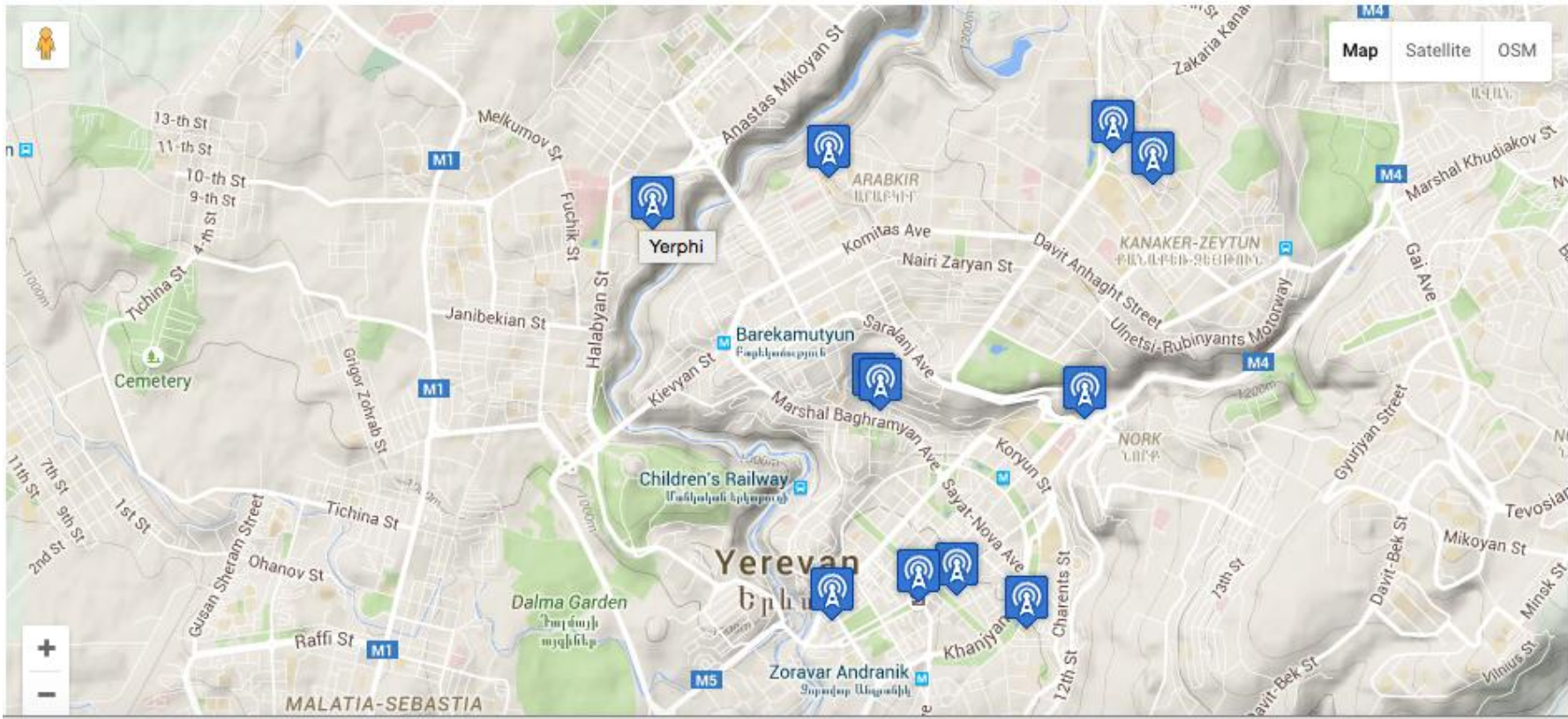
Europe	Africa	APAN	SOAM	NOAM
Country	NREN/NRO			Number of service locations
Algeria	ARN			N/A
Andorra	U.Andorra			1
Armenia	ASNET-AM			5
Austria	ACOnet			68
Azerbaijan	AzScienceNet/ANAS			N/A
Belarus	BASNET			1
Belgium	BELNET			130
Bulgaria	BREN			26
Croatia	CARNet/Srce			191
Cyprus	CYNET			N/A
Czech Republic	CESNET			780
Denmark	DeIC			631
Estonia	EENet			66
Finland	FUNET			350
France	RENATER/CRU			694
Germany	DFN			1104

# EduRoam Topology



		<b>EduRoam Path International</b>	
Designer: Chris Myers		Version: 1.0	
Drawn by: Chris Myers		Location:	
Public			

# EduRoam Portal







Asnet

AM

# Further Activities



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## About

### About the Enlighten Your Research Global Program

Due to its increasingly collaborative nature, large-scale science is rapidly becoming completely dependent on a complex ecosystem of global research and education (R&E) networks. This is because unique, geographically dispersed scientific instruments and facilities need to be accessed and used remotely by thousands of researchers worldwide. Furthermore, these facilities create massive data sets – which for some experiments can reach terabytes to hundreds of petabytes – that have to be archived, catalogued, and analyzed using large-scale infrastructure resources. The ability to reliably manage the round-the-clock data flows from these computing centers and

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ASNET-AM, <http://www.asnet.am>

Eduroam, <http://www.eduroam.am>

AFIRE Federation, <http://www.afire.asnet.am>

Cloud storage, <http://drive.asnet.am>

FileSender Service, <http://filesender.asnet.am>

AFIRE Registration,  
<https://afire.asnet.am/index.php/registration>