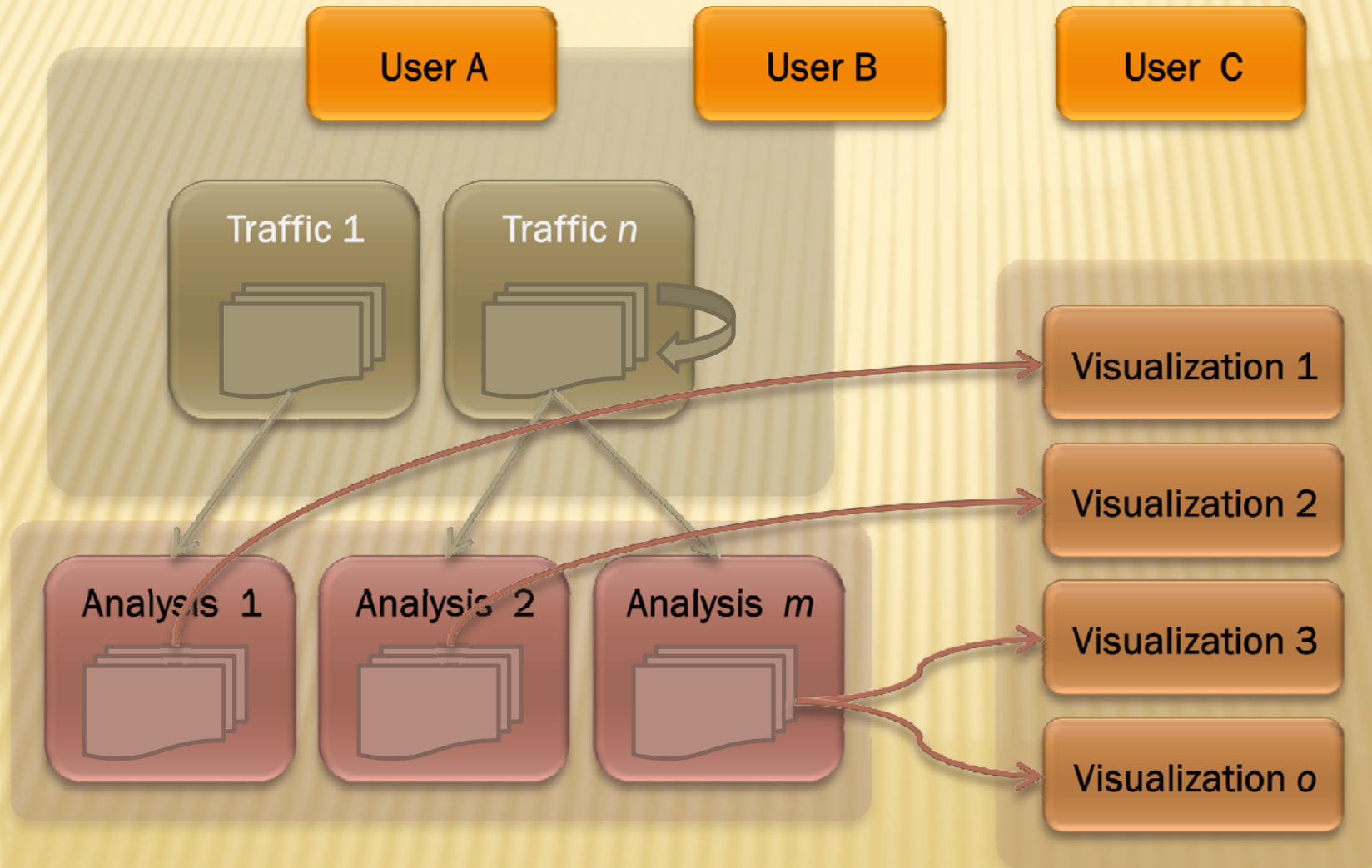


A VISUALIZATION TOOL FOR SNMP TRACES

MOTIVATION

- ✗ The Brazilian academic network operator RNP failed to anonymize their SNMP traffic
- ✗ Delegate the anonymization task to someone else
- ✗ Possibility of comparing one's management profile against a library of SNMP traces
- ✗ Graphically observe the results (and comparisons)

INTERNAL ORGANIZATION



Management Traffic Analyzer - Mozilla Firefox

http://noc.inf.ufrgs.br/mtAnalyzer/manage.php

Google

Management Traffic Analyzer

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Your Traffics

	Traffic Name	Organization	Network	Traffic Files	Edit
<input type="checkbox"/>	RNP Anonymized	RNP	RNP	<ul style="list-style-type: none"> filetcpdump.snmp.2007.06.22_19.10.csv filetcpdump.snmp.2007.06.23_19.10.csv filetcpdump.snmp.2007.06.24_19.10.csv filetcpdump.snmp.2007.06.25_19.10.csv filetcpdump.snmp.2007.06.26_19.10.csv filetcpdump.snmp.2007.06.27_19.10.csv filetcpdump.snmp.2007.06.28_19.10.csv filetcpdump.snmp.2007.06.29_19.10.csv filetcpdump.snmp.2007.06.30_19.10.csv filetcpdump.snmp.2007.07.01_19.10.csv filetcpdump.snmp.2007.07.02_19.10.csv filetcpdump.snmp.2007.07.03_19.10.csv filetcpdump.snmp.2007.07.04_19.10.csv filetcpdump.snmp.2007.07.05_19.10.csv filetcpdump.snmp.2007.07.06_19.10.csv 	
<input type="checkbox"/>	POP-RS	RNP	Many of PoP-RS	<ul style="list-style-type: none"> pop-rs.pcap pop-rs.csv pop-rs-no-annon.csvs pop-rs-flows 	

Images: 7/7 Loaded: 23 KB 8.38 KB/s Time: 0:02 Concluído

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[http://noc.inf.ufrgs.br/mtAnalyzer/edit.php?traffic=6](#)
Google

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Edit Traffic

Traffic Name:

Affiliation:

Network:

Contact Name:









Contact e-mail:

Monitoring Start:

Monitoring End:

Description:

[Edit](#)

	File Name	Size	Anonymization Profile	
<input type="checkbox"/>	pop-rs.pcap	428664015	Without Anonymization	 
<input type="checkbox"/>	pop-rs.csv	258432542	Basic Anonymization	 
<input type="checkbox"/>	pop-rs-no-annon.csv	320307020	Without Anonymization	 
<input type="checkbox"/>	pop-rs-flows	319856885	Without Anonymization	 

[Upload new file](#) [Click here to access the file converter tool](#)

[Remove](#)

Images: 14/14 Loaded: 25 KB 14.52 KB/s Time: 0:01 Concluído

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http://noc.inf.ufrgs.br/mtAnalyzer/converter.php?traf

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File Converter

	File Name	Size	Anonymization Profile
<input type="radio"/>	pop-rs.pcap	428664015	Without Anonymization
<input type="radio"/>	pop-rs.csv	258432542	Basic Anonymization
<input type="radio"/>	pop-rs-no-annon.csv	320307020	Without Anonymization
<input type="radio"/>	pop-rs-flows	319856885	Without Anonymization

Output format: **XML**

File Name (without extension):

Anonymize this file ? ☐ Yes ☒ No

Anonymization Profile: **Basic Anonymization** ([create profile](#))

☐ Remove Source IP ☐ Remove Destiny IP ☐ Remove Source Port

☐ Remove Destiny Port ☐ Remove Community String ☐ Anonymize Sensitive Fields

Convert

Images: 7/7 Loaded: 17 KB 3.25 KB/s Time: 0:05 Concluído

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http://noc.inf.ufrgs.br/mtAnalyzer/profile.php

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Create Profile

Profile Name	Anonymized Fields	Remove
Basic Anonymization	<ul style="list-style-type: none">Remove Community StringAnonymize Sensitive Fields	
Full Anonymization	<ul style="list-style-type: none">Remove Source IPRemove Destiny IPRemove Source PortRemove Destiny PortRemove Community StringAnonymize Sensitive Fields	

Profile Name:

☐ Remove Source IP ☐ Remove Destiny IP ☐ Remove Source Port ☐ Remove Destiny Port

☐ Remove Community String ☐ Anonymize Sensitive Fields

[Create](#)

Images: 5/5 Loaded: 14 KB 9.71 KB/s Time: 0:01 Concluído

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http://noc.inf.ufrgs.br/mtAnalyzer/statistics2.php?tra

Management Traffic Analyzer

Management Traffic Analyzer

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Traffic Statistics

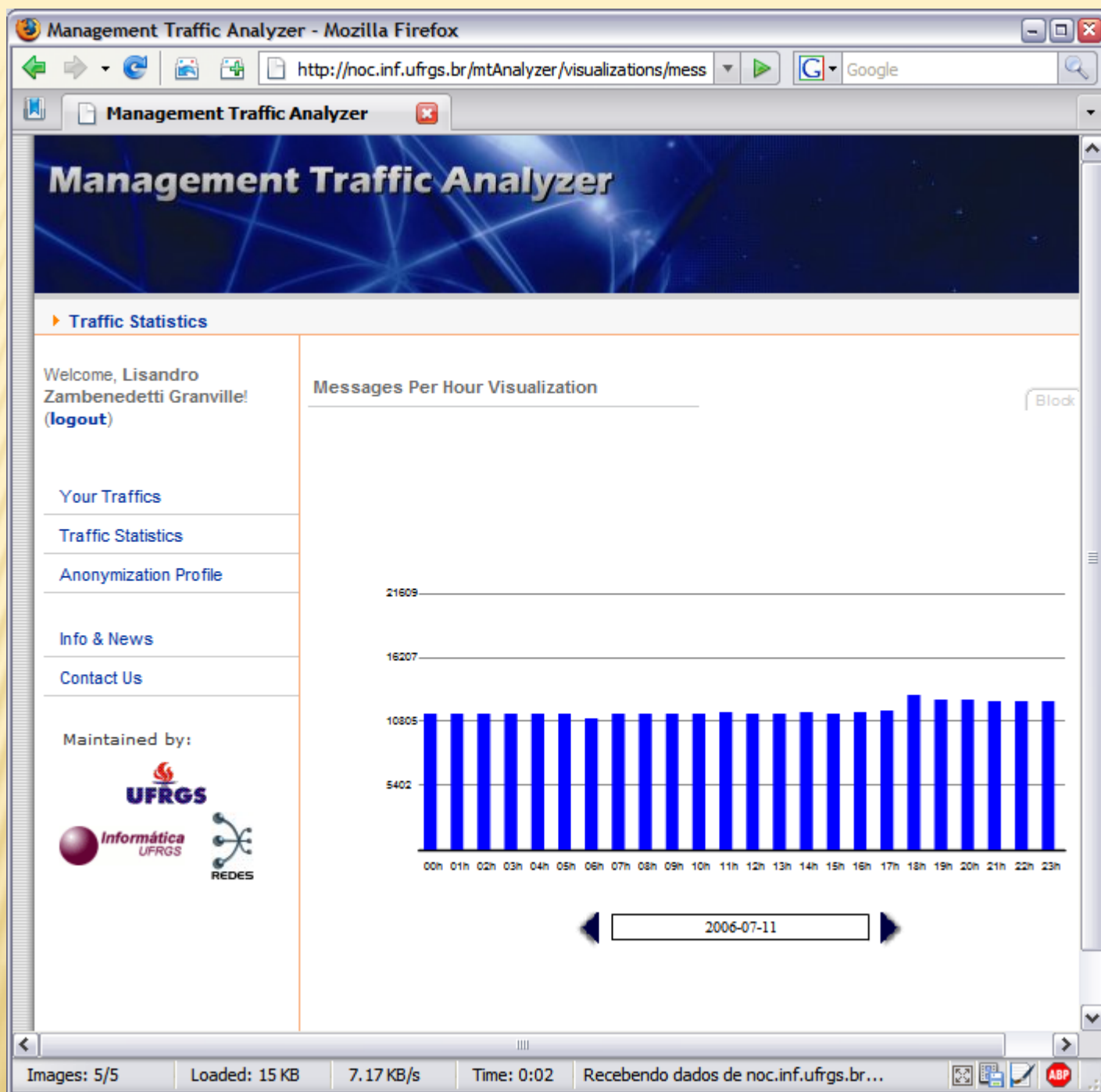
File Name	Analysis Type	Status	Visualization
pop-rs.csv	Messages Per Hour	Done	Messages/Hour Visualization  
pop-rs-flows	Management Topology	Done	Topology Visualization  
pop-rs-no-annon.csv	SNMP Objects	Done	SNMP Objects Visualization  

File to be analyzed:

Analysis to be performed:

Description:

Images: 11/11 Loaded: 21 KB 12.71 KB/s Time: 0:01 Concluído



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http://noc.inf.ufrgs.br/mtAnalyzer/visualizations/snmp

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SNMP Objects Visualization

Block

IF-MIB::ifInDiscards	14000 message(s)
IF-MIB::ifInErrors	105887 message(s)
IF-MIB::ifInUnknownProtos	109195 message(s)
IF-MIB::ifOutOctets	2838 message(s)
IF-MIB::ifOutUcastPkts	424157 message(s)
IF-MIB::ifOutDiscards	14570 message(s)
IF-MIB::ifOutErrors	104226 message(s)
IF-MIB::ifOutQLen	107608 message(s)
	3001 message(s)
RFC1213-MIB::atIfIndex	443 message(s)
RFC1213-MIB::ipRouteDest	49 message(s)
RFC1213-MIB::ipRouteIfIndex	94 message(s)

Images: 5/5 Loaded: 15 KB 4.39 KB/s Time: 0:03 Recebendo dados de noc.inf.ufrgs.br...

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http://noc.inf.ufrgs.br/mtAnalyzer/visualizations/mana

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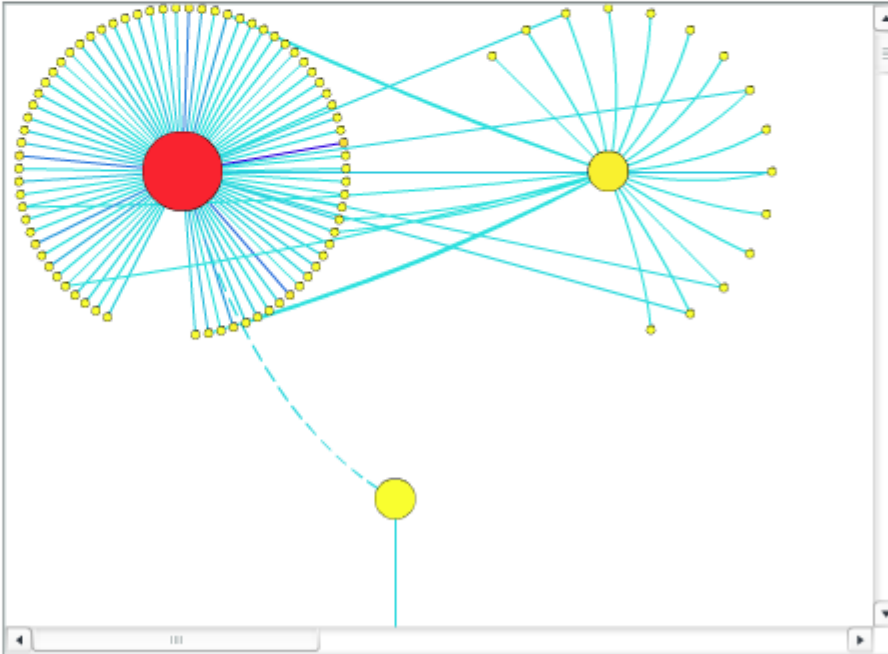
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Management Topology Visualization

Block



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