

NREN update

NREN: IDREN/INHERENT

Country:Indonesia

Presenter: Basuki Suhardiman

The 3rd Asi@Connect Project Meeting/ March 26 2018 Matrix Building, Biopolis, Singapore



Organization













- ❖ NREN:
- ❖ IDREN/Inherent
 - ❖ Initiated by several Universities members 2015, as continues program of INHERENT
 - ❖ ITB (as TEIN representative in Indonesia
 - University of Indonesia (Jakarta)
 - University of Gajahmada (Jogjakarta)
 - University of Brawijaya (Malang)
 - Suraya Institute of Technology (Surabaya)
 - ❖ Approved by Ministry of Science Technology
 - Directorate General of Learning and Student Affairs (Higher Education)
 - Funding for the Link via ITB
- **❖ Number of member institutions(connected to your REN):**
 - **❖** 50 70 Institution

Backbone:



International Backbone from Bandung to Singapore, 622 Mbps

Domestic Backbone 1 Gbps – 2 Gbps



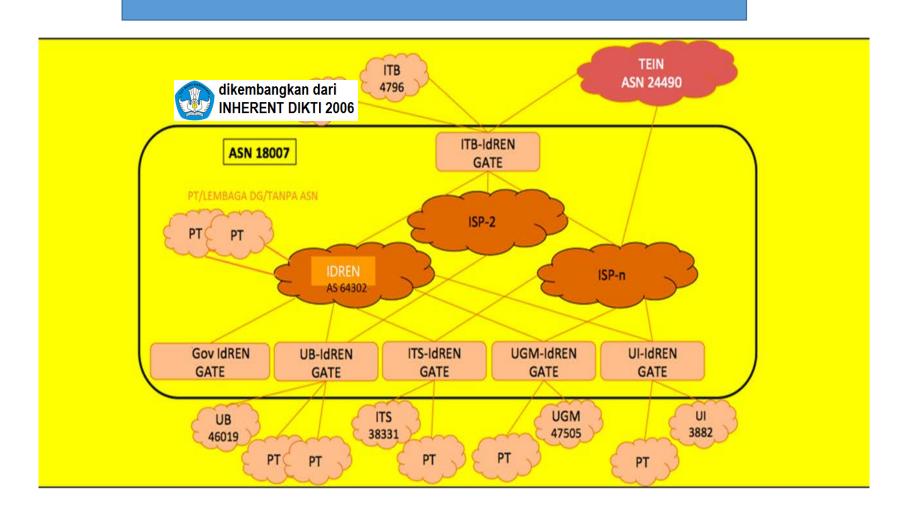
Network update

- Network connection (National):
- Network connection (International):

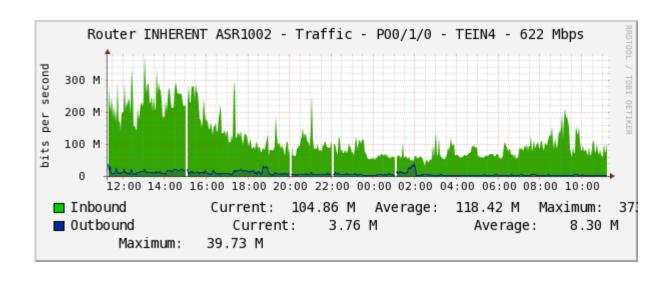




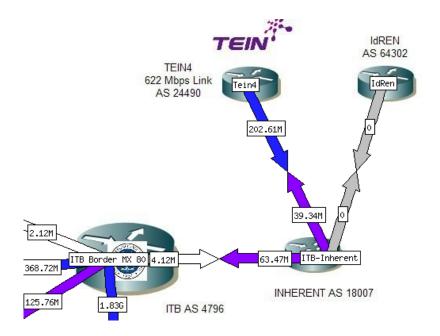
IDREN Topology

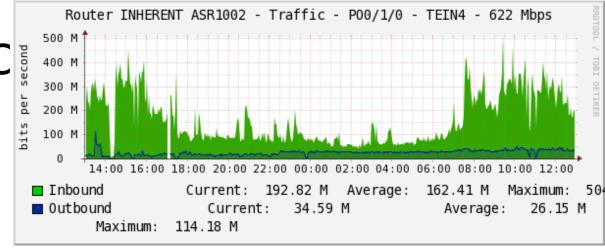


Traffic Between Indonesia (bdg) – Singa pore (TEIN) NOC

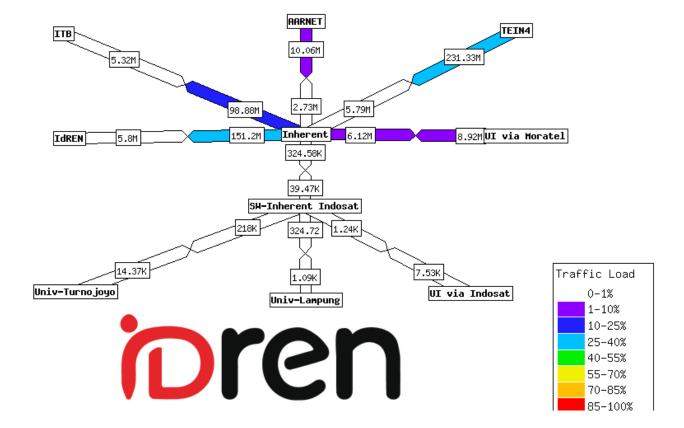


Inherent/IDREN Traffic





Created: Mar 19 2018 09:15:02



ITB's gateway, AS18007

- http://bgp.he.net/AS18007# _peers
- More than 50 Universities h as been connect,
- 30 Universities have their O wn IP address and ASN, tar get 100 Universities have t heir own IP and ASN (next y ear)



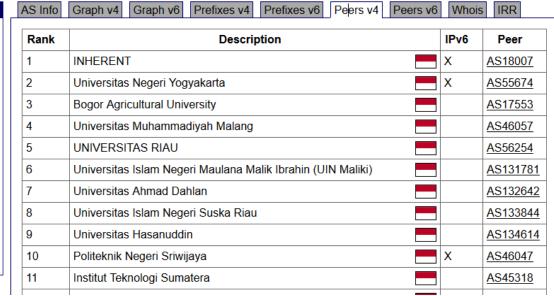
Contact Us

IDREN's Gateway

- Dibawah Network
- AS 64302
- https://bgp.he.net/AS 64302



Quick Links
BGP Toolkit Home
BGP Prefix Report
BGP Peer Report
Exchange Report
Bogon Routes
World Report
Multi Origin Routes
DNS Report
Top Host Report
Internet Statistics
Looking Glass
Network Tools App
Free IPv6 Tunnel
IPv6 Certification
IPv6 Progress
Going Native
Contact Us



IDREN/INHERENT traffic

AS number	Chart	Hosts	Alerts	Name	Seen Since	Breakdown	Throughput	Traffic♥
4796		2322		Institute of Technology Bandung	4 days, 46 min, 13 sec	Rovd	1.33 Mbit/s	2.15 TB
3382		85		University of Indonesia 🗗	4 days, 45 min, 59 sec	Sent R	5.63 Mbit/s	242.54 GB
45705		119		UNIVERSITAS GADJAH MADA	4 days, 45 min, 55 sec	Rovd	5.8 Mbit/s	216.37 GB
46047		233		Politeknik Negeri Sriwijaya	4 days, 45 min, 39 sec	Rovd	41.63 Mbit/s	203.17 GB
17553		115		Bogor Agricultural University 🔀	4 days, 45 min, 47 sec	Rovd	5.8 Mbit/s	139.8 GB
46019		110		Universitas Brawijaya 🗹	4 days, 45 min, 39 sec	8 Rovd	315.88 kbit/s	125.45 GB
55674		142		Universitas Negeri Yogyakarta 🔀	4 days, 45 min, 43 sec	Rovd	1.85 Mbit/s	116.19 GB
63500		20		Lembaga Pengembangan Teknologi Informasi dan Komunikasi	4 days, 45 min, 51 sec	Rovd	28.62 Mbit/s	110.68 GB
133357		33		TELKOM UNIVERSITY []	4 days, 45 min, 39 sec	S Rovd	16.3 kbit/s	61.94 GB
38142		139		Universitas Airlangga 🗷	4 days, 45 min, 57 sec	Sent Rovd	466.18 kbit/s	55.81 GB
38331		29		Institut Teknologi Sepuluh Nopember 🗷	4 days, 45 min, 39 sec	Royd	1.47 Mbit/s	55.35 GB
58400		66		Universitas Negeri Semarang 🗹	4 days, 45 min, 37 sec	S Royd	7.93 kbit/s	29.33 GB
7575		663		Australian Academic and Reasearch Network (AARNet)	42 min, 29 sec	Sent	2.09 kbit/s	46.01 GB

Eduroam Indonesia



eduroam (education roaming) is an international roaming service for users in research, higher education and further education. It provides researchers, teachers and students easy and secure network access when visiting an institution other than their own. Authentication of users is performed by their home institution, using the same credentials as w hen they access the network locally, while authorization to access the Internet and possibly other resources is handle d by the visited institution. Users do not have to pay for using eduroam.

https://eduroamid.info/

ID-Telemedicine Activity

- The 11th ID-Neuro c ase Telemedicine, ta ken from UGM-Sardj ito Hospital. March 1 3th, 2018
- Almost every week t here were activity on ID-telemedicine



Eduroam

- Institut Teknologi Bandung
- Universitas Islam Indonesia
- Universitas Gadjah Mada (lim ited availability)
- <u>Universitas Negeri Yogyakart</u>
 <u>a</u>
- Universitas Brawijaya
- Stenden University Bali



OF@TEIN Activity (SDN)/ONOS



- Seminar and workshop
 - @ITB , Bandung
 - @UII , Jogjakarta
- https://www.eventbrite.com/e /itb-open-networking-day-tr ansforming-networking-withonos-tickets-43367540481#