MMIX Update

Thein Myint Khine

Version: 2.1

Update: Apr, 2019

Our Achievement

Internet Service Providers

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Organized	■	■	■	■	■	■	■	■	■	■	■	■					
PTD Proposal	■	■	■	■	■	■	■	■	■	■							
MOU Signing	■	■	■	■	■	■	■	■	■	■							
Agreement Signing	■	■	■	■	■	■	■	■	■	■							
Connect IX	■	■	■	■	■	■	■	■	■	■	■	■					
Associate IX	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
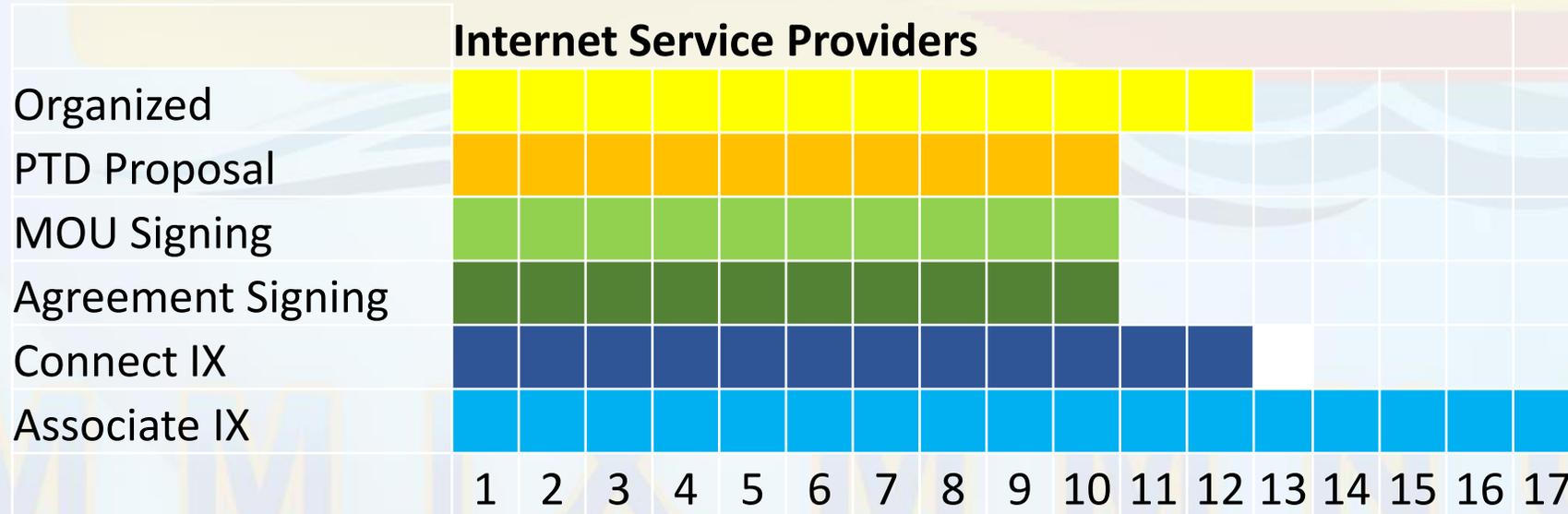
Existing Members (17)

Sr.	Member Name	Member Type	Registration Date	ASN
1	AGB Communication Co., Ltd.	Principle	05-Sep-17	134739
2	Southeastasianet Technologies Myanmar Co., Ltd	Principle	06-Sep-17	132344
3	Kinetic Myanmar Technology Co., Ltd.	Principle	11-Sep-17	63998
4	Yatanarpon Teleport Public Co., Ltd	Principle	12-Sep-17	131322
5	Fortune Telecom Co., Ltd.	Principle	12-Sep-17	135731
6	NTT Communications (Thailand) Co., Ltd. (Yangon Branch)	Principle	12-Sep-17	134736
7	Myanmar Speed Net Co., Ltd.	Associate	12-Sep-17	132100
8	KBZ Gateway Co., Ltd.	Associate	12-Sep-17	135433
9	Myanmar Unilink Communication Co., Ltd.	Principle	10-Nov-17	136480
10	Amara Communications Co., Ltd.	Principle	25-Apr-18	132686
11	Facebook Inc	Affiliate	15-May-18	63292
12	Myanmar Information Highway Limited	Principle	26-Jul-18	136780
13	Telecom International Myanmar Co., Ltd. (MyTel)	Principle	01-Sep-18	136255
14	Marga Global Telecom Ltd.	Associate	2-Apr-19	136474
15	Spectrum Life Co., Ltd.	Associate	22-Mar-19	136783
16	True IDC	Associate	1-Sep-19	
17	RIPE NCC	Affiliate	28-Nov-19	136474

MMIX Members

Achievement

17	out of	60	Active Myanmar ASNs	28%
2	out of	17	IGW License Holders	12%
1	out of	4	Nation Wide Operators	25%
16	out of	30	Major Active Network Operators	57%

Member/Participant of

APNIC

APIX

MANRS

MMIX POP

- **True IDC** at MICT Park, Yangon

Up to 14G Aggregate Traffic

Aggregate - Traffic for mm-ix.net

■ Total Inbound	Current:	583.46 M	Average:	322.10 M	Maximum:	598.70 M
■ Total Outbound	Current:	11.59 G	Average:	6.86 G	Maximum:	11.59 G

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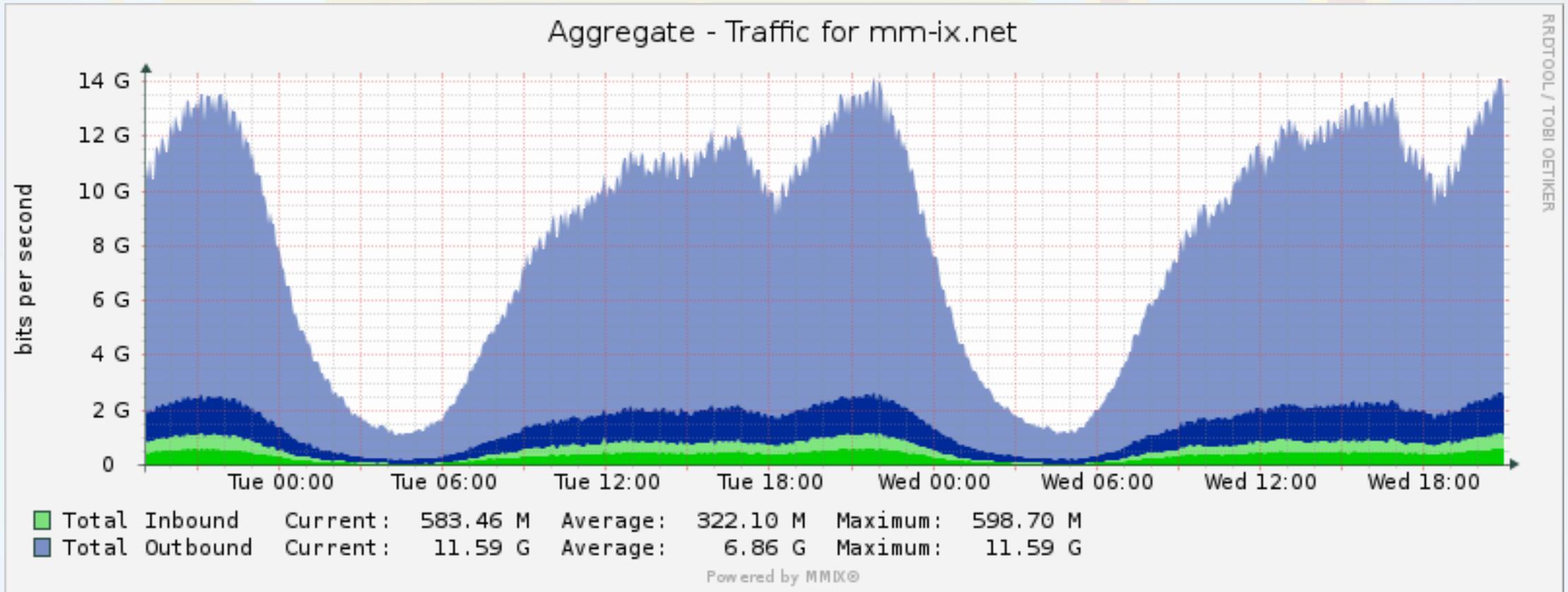
K-Root DNS Traffic
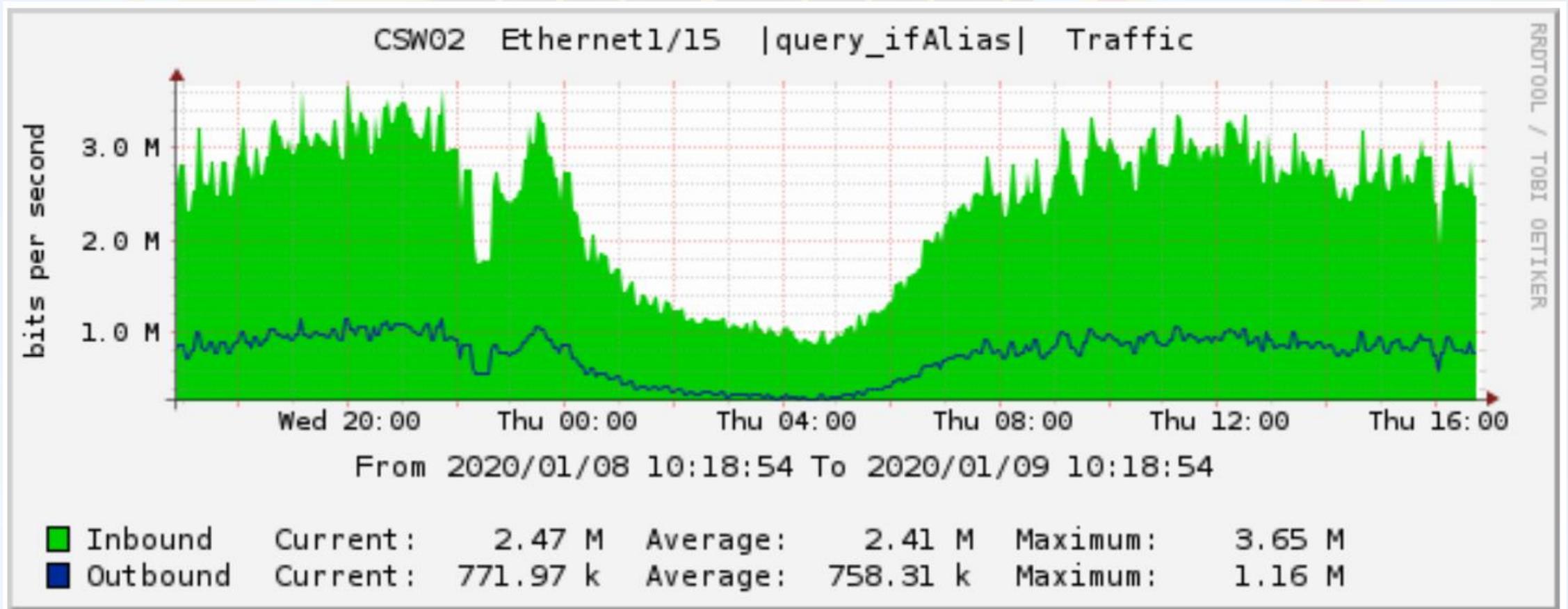
DNS Root Servers in Myanmar

FORUM 2020

MMIX Reference Links

http://www.mm-ix.net

https://www.facebook.com/Myanmar.MMIX/

https://www.peeringdb.com/ix/2102

https://bgp.he.net/exchange/MMIX

https://www.ixpmap.org

https://www.internetexchangemap.com/#/internet-exchange/mmix-yangon-myanmar

http://lg.mm-ix.net/
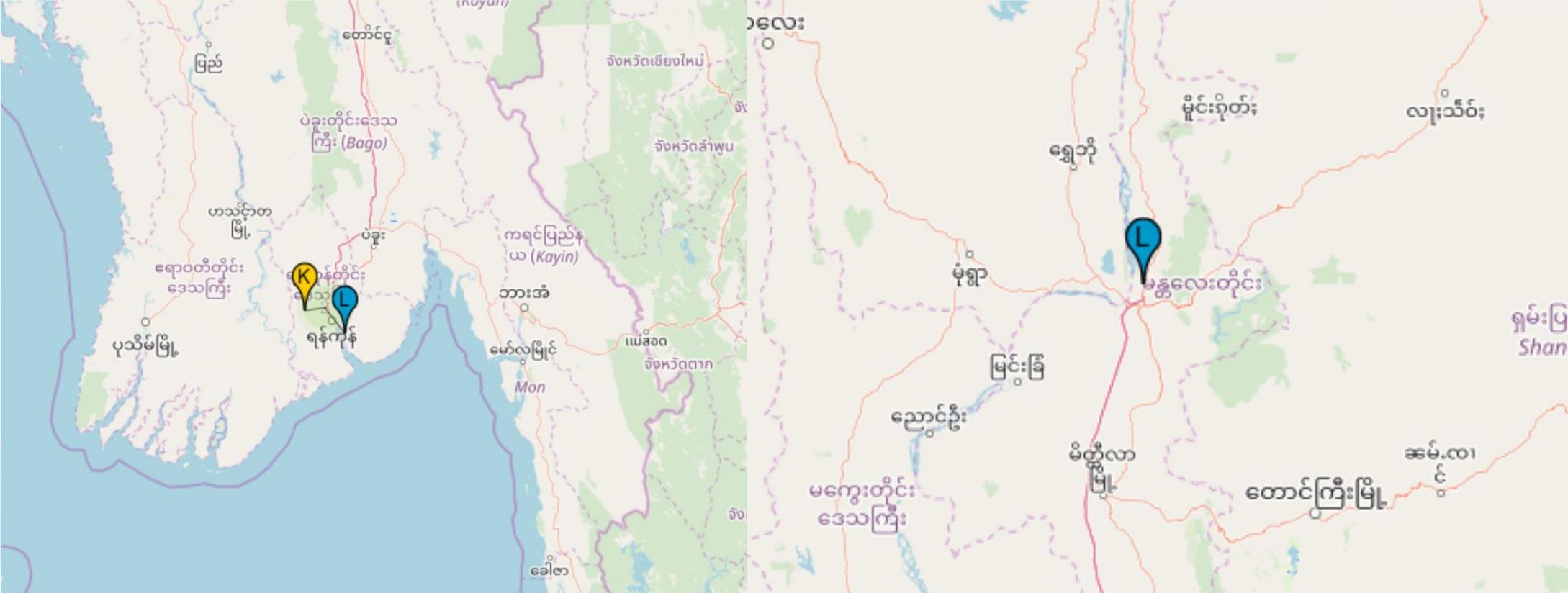
Objects

- to provide IP peering facilities via open, neutral, industrial owned Internet Exchange Point.

- to provide add-on services which are common requirement.

- To promote Local Content hosting locally in Myanmar.

Member Types

Principal Member:

- For Telecom License Holders except "C" License.

Institutional Member:

- For Enterprises

Associate Member:

- For Vendors and SIs

Affiliate Member:

- For Patron Partners

MMIX Contents

DNS K-Root traffic	3.5 Mbps
CDN Traffic	13 Gbps
Others	1 Gbps

CDN

Existing – 2,

1 more in February

Expecting 2 or more in this year.

MMIX & Regulatory

Time Line	Description
24-Jun-2019	PTD announced calling for proposal to setup an Internet Exchange
25-Jul-2019	MMIX proposed
14-Aug-2019	PTD informed all IGW license holders preparing to connect MMIX as MMIX only proposed.
23-Dec-2019	PTD issued "IXP Policies and Frameworks" and asking feedback from Stakeholders Last date will be 31-Jan-2020.

IXP License in Myanmar

As MMIX will be

- National Exchange

- operated by Industry as Non-profit organization

- is only Internet Exchange in Myanmar

"License may not be required"

MMIX Future

- Upgrade to National Exchange.
  - expecting within a few months.

- More members
  - 10+ new members atleast including all Mobile operators
  - That will happen after upgrade to National Exchange.

- Extend to more Cities and may be another Countries.
  - expecting within one or two years.

Expecting Growth

	Existing	**2020**	**2021**
Peering Partners	12	30	50
Aggregate Traffic	14 G	100 G	1 T
Local Hosting growth	10%	20%	50%

MMIX Major Activities

2018 March

    APNIC Workshop

2019 May

    Myanmar Peering Forum 2019

2020 January

    Myanmar Peering Forum 2020 (together event with MMNOG)

MMIX Constitution Brief

Structure

Members - the governing body;

the Executive Council - acts on behalf of MMIX;

the Secretariat – daily operations and MMIX functions;

Sub-Committees – for specific functions;

Members

1. Principal Member

2. Constitutional Member

3. Affiliate Member

4. Association Member

Executive Council

Minimum 3, Maximum 9 members

- EC are elected by Members
- CEO is appointed by EC Member

Thank You