



IPv6

Address Planning & Implementation

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IPv6 quick Review

- Developed by IETF – Internet Engineering Task Force
- 128 bit address
- Represent 8 groups, HEXADECIMAL DIGIT separate with colons “:”
Example – 2001:0db8:0000:0000:0000:8a2e:0370:7334
- One series of zeros “0” and colons “:” can be replaced with Double colons “::”
Example – 2001:0db8::8a2e:0370:7334
- Leading Zeros can be omitted.
 - *Example – 2001:0db8::8a2e:0370:7334 -> 2001:db8::8a2e:370:7334*



IPv6 Addressing Plan for an ISP

M M I X M M N O G

F O R U M 2 0 2 0

Smallest Network Sizes

IPv6 allocation to each ISP	/32
Global Routing Prefix	/48
LAN address	/64

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Recommended Address Blocks:

/32	/36	/40	/44	/48
APNIC allocated	Main Blocks	Major blocks	Sub Blocks	Edge Blocks
	Infra & CS	Infra & CS	Loopback & Infra	Loopback
				Infra P2P
			Cus-Wan(Region)	Cus-Wan(Service)
		DC-Region		
	Cus-NW(Region)	Cus-NW(Service)	Cus-NW(Plan)	Cus-NW(Zone)
	Business & Corp	Corp-Group	Corp-Org	Corp-Offices

Recommended Network Sizes

NW Name	Subnet bit	Notes
Loopback	/128	
P2P link	/127	Reserve /64
Customer Network	/64 ~ /48	Small office & single LAN
Corporate Network	/44 ~ /52	Large Organization

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Main Blocks

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Main Blocks

Block	Prefix	Description
	2001:0DB8::/32	Parent Block
1	2001:0DB8:0000::/36	Infrastructure
2	2001:0DB8:1000::/36	Customers
3	2001:0DB8:2000::/36	
4	2001:0DB8:3000::/36	
5	2001:0DB8:4000::/36	
6	2001:0DB8:5000::/36	
7	2001:0DB8:6000::/36	
8	2001:0DB8:7000::/36	
9	2001:0DB8:8000::/36	
10	2001:0DB8:9000::/36	
11	2001:0DB8:A000::/36	
12	2001:0DB8:B000::/36	
13	2001:0DB8:C000::/36	
14	2001:0DB8:D000::/36	
15	2001:0DB8:E000::/36	
16	2001:0DB8:F000::/36	

Main Blocks

L – Location; T - Type

Block	Prefix	Plan - Location Based		Plan - Type Base	
	2001:0DB8::/32	Parent Block		Parent Block	
1	2001:0DB8:0000::/36	Infrastructure		Infrastructure	
		2001:0DB8:L000::/40		2001:0DB8:T000::/40	
2	2001:0DB8:1000::/36	Business & Corporate	T=1	Business & Corporate	Business = F
3	2001:0DB8:2000::/36				
4	2001:0DB8:3000::/36				
5	2001:0DB8:4000::/36	Customer Network Region 1	L=4; T=4	Customer Network - Ethernet	Ethernet = 4
6	2001:0DB8:5000::/36				
7	2001:0DB8:6000::/36				
8	2001:0DB8:7000::/36				
9	2001:0DB8:8000::/36	Customer Network Region 2	L=8; T=8	Customer Network - Wireless	Wireless = 8
10	2001:0DB8:9000::/36				
11	2001:0DB8:A000::/36				
12	2001:0DB8:B000::/36				
13	2001:0DB8:C000::/36	Customer Network Region 3	L=C; T=C	Customer Network - FTTX	FTTX = C
14	2001:0DB8:D000::/36				
15	2001:0DB8:E000::/36				
16	2001:0DB8:F000::/36				



Infra Blocks

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Infra Blocks (1.X)

L – Location; T - Type

Block	Prefix	Plan - Location Based	Plan - Type Base
	2001:0DB8::/32	Parent Block	Parent Block
1	2001:0DB8:0000::/36	Infrastructure	Infrastructure
1.1	2001:0DB8:0000::/40	Infra + CS	
	2001:0DB8:0L00::/40		
1.2	2001:0DB8:0100::/40		
1.3	2001:0DB8:0200::/40		
1.4	2001:0DB8:0300::/40		
1.5	2001:0DB8:0400::/40	DC - Region 1	Region 1 = 4
1.6	2001:0DB8:0500::/40		
1.7	2001:0DB8:0600::/40		
1.8	2001:0DB8:0700::/40		
1.9	2001:0DB8:0800::/40	DC - Region 2	Region 2 = 8
1.10	2001:0DB8:0900::/40		
1.11	2001:0DB8:0A00::/40		
1.12	2001:0DB8:0B00::/40		
1.13	2001:0DB8:0C00::/40	DC - Region 3	Region 3 = C
1.14	2001:0DB8:0D00::/40		
1.15	2001:0DB8:0E00::/40		
1.16	2001:0DB8:0F00::/40		

1.1 Infra + Customer WAN

L – Location; T - Type

Block	Prefix	Description
1.1	2001:0DB8:0000::/40	Infra + CS
1	2001:0DB8:0000::/44	Loopback, Infra P2P, Transport
	2001:0DB8:00L0::/44	
2	2001:0DB8:0010::/44	Customer WAN, Business
3	2001:0DB8:0020::/44	
4	2001:0DB8:0030::/44	
5	2001:0DB8:0040::/44	Customer WAN, Region 1
6	2001:0DB8:0050::/44	
7	2001:0DB8:0060::/44	
8	2001:0DB8:0070::/44	
9	2001:0DB8:0080::/44	Customer WAN, Region 2
10	2001:0DB8:0090::/44	
11	2001:0DB8:00A0::/44	
12	2001:0DB8:00B0::/44	
13	2001:0DB8:00C0::/44	Customer WAN, Region 3
14	2001:0DB8:00D0::/44	
15	2001:0DB8:00E0::/44	
16	2001:0DB8:00F0::/44	

1.1.1 Infra

L – Location; T - Type

Block	Prefix	Description
1.1.1	2001:0DB8:0000::/44	Loopback, Infra P2P, Transport
	2001:0DB8:000T::/48	
1.1	2001:0DB8:0000::/48	Loopback
1.2	2001:0DB8:0001::/48	DNS
1.3	2001:0DB8:0002::/48	CDN & others.....
1.4	2001:0DB8:0003::/48	
1.5	2001:0DB8:0004::/48	
1.6	2001:0DB8:0005::/48	
1.7	2001:0DB8:0006::/48	
1.8	2001:0DB8:0007::/48	Infra P2P - Video NW
1.9	2001:0DB8:0008::/48	
1.10	2001:0DB8:0009::/48	Infra P2P - VoiceNW
1.11	2001:0DB8:000A::/48	
1.12	2001:0DB8:000B::/48	Infra P2P - DataNW
1.13	2001:0DB8:000C::/48	
1.14	2001:0DB8:000D::/48	Infra P2P - Core
1.15	2001:0DB8:000E::/48	
1.16	2001:0DB8:000F::/48	Infra P2P - IP Transit

1.1.1.3 DNS Resolver

L – Location; T - Type

Block	Prefix	Description	Note
1.3	2001:0DB8:0001::/48	DNS Resolver ...	
	2001:0DB8:0001:0001::0053	Resolver 1	Reserve /64
	2001:0DB8:0001:0002::0053	Resolver 2	Reserve /64

2001:0DB8:1:1::53

Resolver 1

2001:0DB8:1:2::53

Resolver 2

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1.1.1 Infra P2P (Blocks)

L – Location; T - Type

Block	Prefix	Description	Qty. of	prefix
1.16	2001:0DB8:000F::/48	Infra P2P - IP Transit	16	/52
.1	2001:0DB8:000F:0000::/52		4096	/64
.2	2001:0DB8:000F:1000::/52		4096	/64
.3	2001:0DB8:000F:2000::/52		4096	/64
.4	2001:0DB8:000F:3000::/52		4096	/64
.5	2001:0DB8:000F:4000::/52	Region 1	4096	/64
.6	2001:0DB8:000F:5000::/52		4096	/64
.7	2001:0DB8:000F:6000::/52		4096	/64
.8	2001:0DB8:000F:7000::/52		4096	/64
.9	2001:0DB8:000F:8000::/52	Region 2	4096	/64
.10	2001:0DB8:000F:9000::/52		4096	/64
.11	2001:0DB8:000F:A000::/52		4096	/64
.12	2001:0DB8:000F:B000::/52		4096	/64
.13	2001:0DB8:000F:C000::/52	Region 3	4096	/64
.14	2001:0DB8:000F:D000::/52		4096	/64
.15	2001:0DB8:000F:E000::/52		4096	/64
.16	2001:0DB8:000F:F000::/52		4096	/64

1.1.1 Infra P2P (Details)

L – Location; T - Type

Block	Prefix	Description	Qty. of	prefix
1.16	2001:0DB8:000F::/48	Infra P2P - IP Transit	16	/52
.14	2001:0DB8:000F:C000::/52	Region 3	4096	/64
0	2001:0DB8:000F:C000::/64	R1-R2		
0	2001:0DB8:000F:C000::0/127	R1		
0.1	2001:0DB8:000F:C000::1/127	R2		
1	2001:0DB8:000F:C001::/64	R3-R4		
1.1	2001:0DB8:000F:C001::0/127	R3		
1.2	2001:0DB8:000F:C001::1/127	R4		
2	2001:0DB8:000F:C002::/64	R5-L1-R6-L2		
2.1	2001:0DB8:000F:C002::0/127	R5-L1		
2.2	2001:0DB8:000F:C002::1/127	R6-L2		
3	2001:0DB8:000F:C003::/64	R7-R8		
3.1	2001:0DB8:000F:C003::0/127	R7		
3.2	2001:0DB8:000F:C003::1/127	R8		



Customers Networks

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Customers' Networks

L – Location; T – Type; P – Plan; Z - Zone

T.P.Z	IPv6 WAN POOL Block (YGN)	IPv6 PD POOL Block (Region 1)	Service	No. of IP Subs	Level
10	2001:0DB8:0040::/44	2001:0DB8:4000::/36			Region
	2001:0DB8:00L0:0TPZ::/64	2001:0DB8:LTPZ::/48			
0	2001:0DB8:0040:0000::/56	2001:0DB8:4000::/40	FTTX	65536	Service
1	2001:0DB8:0040:0100::/56	2001:0DB8:4100::/40		65536	Service
2	2001:0DB8:0040:0200::/56	2001:0DB8:4200::/40	Metro Ethernet	65536	Service
3	2001:0DB8:0040:0300::/56	2001:0DB8:4300::/40		65536	Service
4	2001:0DB8:0040:0400::/56	2001:0DB8:4400::/40	xDSL	65536	Service
5	2001:0DB8:0040:0500::/56	2001:0DB8:4500::/40		65536	Service
6	2001:0DB8:0040:0600::/56	2001:0DB8:4600::/40	Wifi	65536	Service
7	2001:0DB8:0040:0700::/56	2001:0DB8:4700::/40		65536	Service
8	2001:0DB8:0040:0800::/56	2001:0DB8:4800::/40		65536	Service
9	2001:0DB8:0040:0900::/56	2001:0DB8:4900::/40		65536	Service
10	2001:0DB8:0040:0A00::/56	2001:0DB8:4A00::/40		65536	Service
11	2001:0DB8:0040:0B00::/56	2001:0DB8:4B00::/40		65536	Service
12	2001:0DB8:0040:0C00::/56	2001:0DB8:4C00::/40		65536	Service
13	2001:0DB8:0040:0D00::/56	2001:0DB8:4D00::/40		65536	Service
14	2001:0DB8:0040:0E00::/56	2001:0DB8:4E00::/40		65536	Service
15	2001:0DB8:0040:0F00::/56	2001:0DB8:4F00::/40		65536	Service

FTTX Networks Plan (T=0)

L – Location; T – Type; P – Plan; Z - Zone

T.P.Z	IPv6 WAN POOL Block (YGN)	IPv6 PD POOL Block (Region 1)	No. of IP Subs	Level
10	2001:0DB8:0040::/44	2001:0DB8:4000::/36		Region
	2001:0DB8:00L0:0TPZ::/64	2001:0DB8:LTPZ::/48		
0	2001:0DB8:0040:0000::/56	2001:0DB8:4000::/40	65536	Service
0.0	2001:0DB8:0040:0000::/60	2001:0DB8:4000::/44	4096	Plan
0.1	2001:0DB8:0040:0001::/64	2001:0DB8:4010::/44	4096	Plan
0.2	2001:0DB8:0040:0002::/64	2001:0DB8:4020::/44	4096	Plan
0.3	2001:0DB8:0040:0003::/64	2001:0DB8:4030::/44	4096	Plan
0.4	2001:0DB8:0040:0004::/64	2001:0DB8:4040::/44	4096	Plan
0.5	2001:0DB8:0040:0005::/64	2001:0DB8:4050::/44	4096	Plan
0.6	2001:0DB8:0040:0006::/64	2001:0DB8:4060::/44	4096	Plan
0.7	2001:0DB8:0040:0007::/64	2001:0DB8:4070::/44	4096	Plan
0.8	2001:0DB8:0040:0008::/64	2001:0DB8:4080::/44	4096	Plan
0.9	2001:0DB8:0040:0009::/64	2001:0DB8:4090::/44	4096	Plan
0.10	2001:0DB8:0040:000A::/64	2001:0DB8:40A0::/44	4096	Plan
0.11	2001:0DB8:0040:000B::/64	2001:0DB8:40B0::/44	4096	Plan
0.12	2001:0DB8:0040:000C::/64	2001:0DB8:40C0::/44	4096	Plan
0.13	2001:0DB8:0040:000D::/64	2001:0DB8:40D0::/44	4096	Plan
0.14	2001:0DB8:0040:000E::/64	2001:0DB8:40E0::/44	4096	Plan
0.15	2001:0DB8:0040:000F::/64	2001:0DB8:40F0::/44	4096	Plan

FTTX Networks Zones (P=0)

L – Location; T – Type; P – Plan; Z - Zone

T.P.Z	IPv6 WAN POOL Block (YGN)	IPv6 PD POOL Block (Region 1)	No. of IP Subs	Level
10	2001:0DB8:0040::/44	2001:0DB8:4000::/36		Region
	2001:0DB8:00L0:0TPZ::/64	2001:0DB8:RSPZ::/48		
.0	2001:0DB8:0040:0000::/56	2001:0DB8:4000::/40	65536	Service
.0.0	2001:0DB8:0040:0000::/60	2001:0DB8:4000::/44	4096	Plan
	2001:0DB8:0040:0000::/64	2001:0DB8:4000::/48		Zone
	2001:0DB8:0040:0001::/64	2001:0DB8:4001::/48		Zone
	2001:0DB8:0040:0002::/64	2001:0DB8:4002::/48		Zone
	2001:0DB8:0040:0003::/64	2001:0DB8:4003::/48		Zone
	2001:0DB8:0040:0004::/64	2001:0DB8:4004::/48		Zone
	2001:0DB8:0040:0005::/64	2001:0DB8:4005::/48		Zone
	2001:0DB8:0040:0006::/64	2001:0DB8:4006::/48		Zone
	2001:0DB8:0040:0007::/64	2001:0DB8:4007::/48		Zone
	2001:0DB8:0040:0008::/64	2001:0DB8:4008::/48		Zone
	2001:0DB8:0040:0009::/64	2001:0DB8:4009::/48		Zone
	2001:0DB8:0040:000A::/64	2001:0DB8:400A::/48		Zone
	2001:0DB8:0040:000B::/64	2001:0DB8:400B::/48		Zone
	2001:0DB8:0040:000C::/64	2001:0DB8:400C::/48		Zone
	2001:0DB8:0040:000D::/64	2001:0DB8:400D::/48		Zone
	2001:0DB8:0040:000E::/64	2001:0DB8:400E::/48		Zone
	2001:0DB8:0040:000F::/64	2001:0DB8:400F::/48		Zone



Business and Corporates

M M I X M M N O G

F O R U M 2 0 2 0

Corporates

G=Group; O=Organization; T=Type; L=Location; N=Network

Block	Prefix	Description	Qty. of	Sub-Prefix	Level
	2001:0DB8:1GOT:LNNN::/64				
16	2001:0DB8:1000::/36	Business & Corporate			
	2001:0DB8:1000::/40	My Corp Group	16/44		Group
	2001:0DB8:1100::/40	Banking	16/44		Group
	2001:0DB8:1200::/40	Oil and Gas	16/44		Group
	2001:0DB8:1300::/40	Government	16/44		Group
	2001:0DB8:1400::/40		16/44		Group
	2001:0DB8:1500::/40		16/44		Group
	2001:0DB8:1600::/40		16/44		Group
	2001:0DB8:1700::/40		16/44		Group
	2001:0DB8:1800::/40		16/44		Group
	2001:0DB8:1900::/40		16/44		Group
	2001:0DB8:1A00::/40		16/44		Group
	2001:0DB8:1B00::/40		16/44		Group
	2001:0DB8:1C00::/40		16/44		Group
	2001:0DB8:1D00::/40		16/44		Group
	2001:0DB8:1E00::/40		16/44		Group
	2001:0DB8:1F00::/40		16/44		Group

Corporates

G=Group; O=Organization; T=Type; L=Location; N=Network

Block	Prefix	Description	Qty. of	Sub-Prefix	Level
	2001:0DB8:1GOT:LNNN::/64				
16	2001:0DB8:1000::/36	Business & Corporate			
	2001:0DB8:1000::/40	My Corp Group	16/44		Group
	2001:0DB8:1100::/40	Banking	16/44		Group
	2001:0DB8:1100::/44	KBZ Bank			Organization
	2001:0DB8:1110::/44	Aya Bank			Organization
	2001:0DB8:1120::/44	CB Bank			Organization
	2001:0DB8:1130::/44				Organization
	2001:0DB8:1140::/44				Organization
	2001:0DB8:1150::/44				Organization
	2001:0DB8:1160::/44				Organization
	2001:0DB8:1170::/44				Organization
	2001:0DB8:1180::/44				Organization
	2001:0DB8:1190::/44				Organization
	2001:0DB8:11A0::/44				Organization
	2001:0DB8:11B0::/44				Organization
	2001:0DB8:11C0::/44				Organization
	2001:0DB8:11D0::/44				Organization
	2001:0DB8:11E0::/44				Organization
	2001:0DB8:11F0::/44				Organization



Implementation

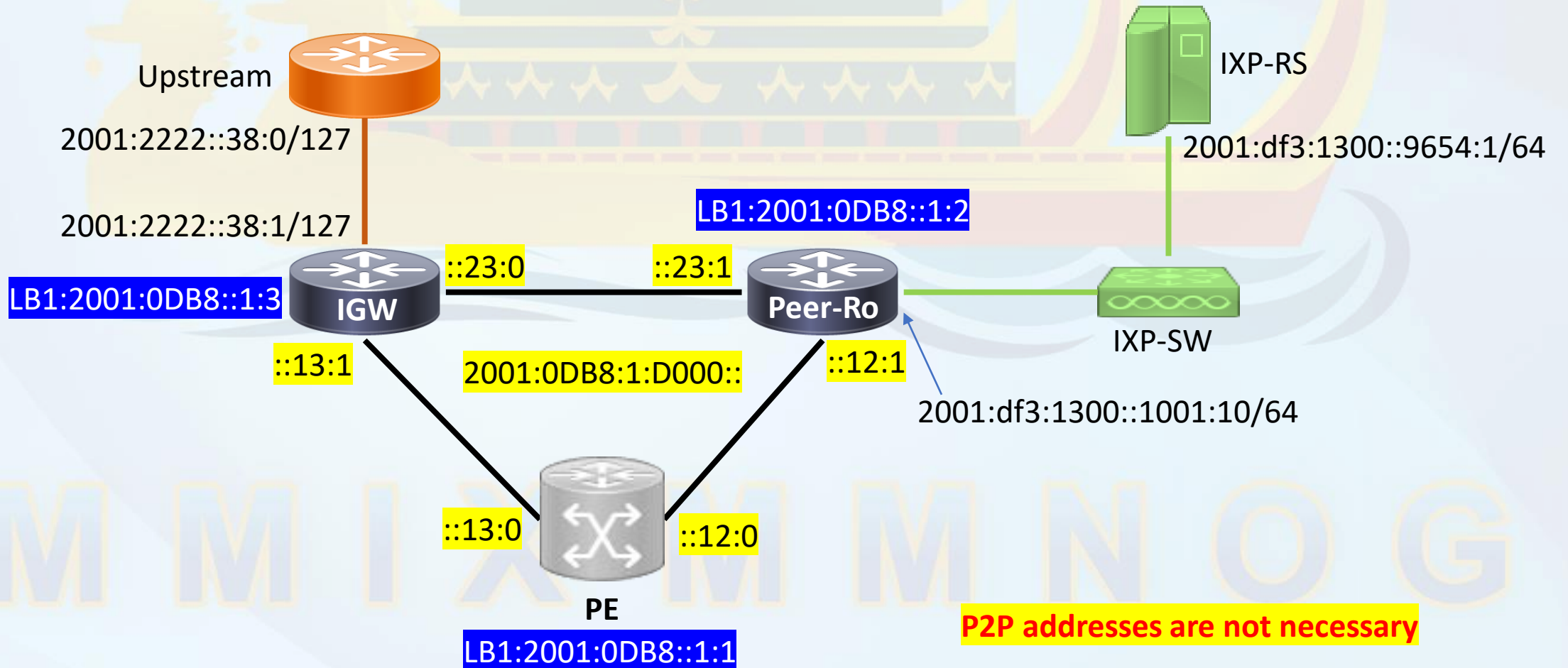
M M I X M M N O G

F O R U M 2 0 2 0

IPv6 Implementation

- Edged Networks
 - International Gateway Routers
 - Peering Routers
 - CDN Networks
- Server Farms
- Core Networks
 - MPLS routers

Edged Networks



OSPF Config iBGP peer

```
IGW(config)#  
interface Loopback1  
ipv6 address 2001:0DB8::1:3/128  
ipv6 ospf 1 area 0  
!  
interface FastEthernet0/0  
ipv6 enable  
ipv6 ospf network point-to-point  
ipv6 ospf 1 area 0  
!  
ipv6 router ospf 1  
router-id 10.1.1.3
```

BGP Config iBGP peer

IGW(config)#

```
neighbor 2001:0DB8::1:2 remote-as 1001
neighbor 2001:0DB8::1:2 description Peer-Ro
neighbor 2001:0DB8::1:3 remote-as 1001
neighbor 2001:0DB8::1:3 description IGW
```

!

address-family ipv6

```
neighbor 2001:0DB8::1:2 activate
neighbor 2001:0DB8::1:2 next-hop-self
neighbor 2001:0DB8::1:3 activate
neighbor 2001:0DB8::1:3 next-hop-self
```

IGW Config for uplink – very simple

```
interface FastEthernet1/0
  ipv6 address 2001:2222::38:1/127
!
router bgp 1001
  neighbor 2001:2222::38:0 remote-as 1002
!
address-family ipv6
  neighbor 2001:2222::38:0 activate
!
```

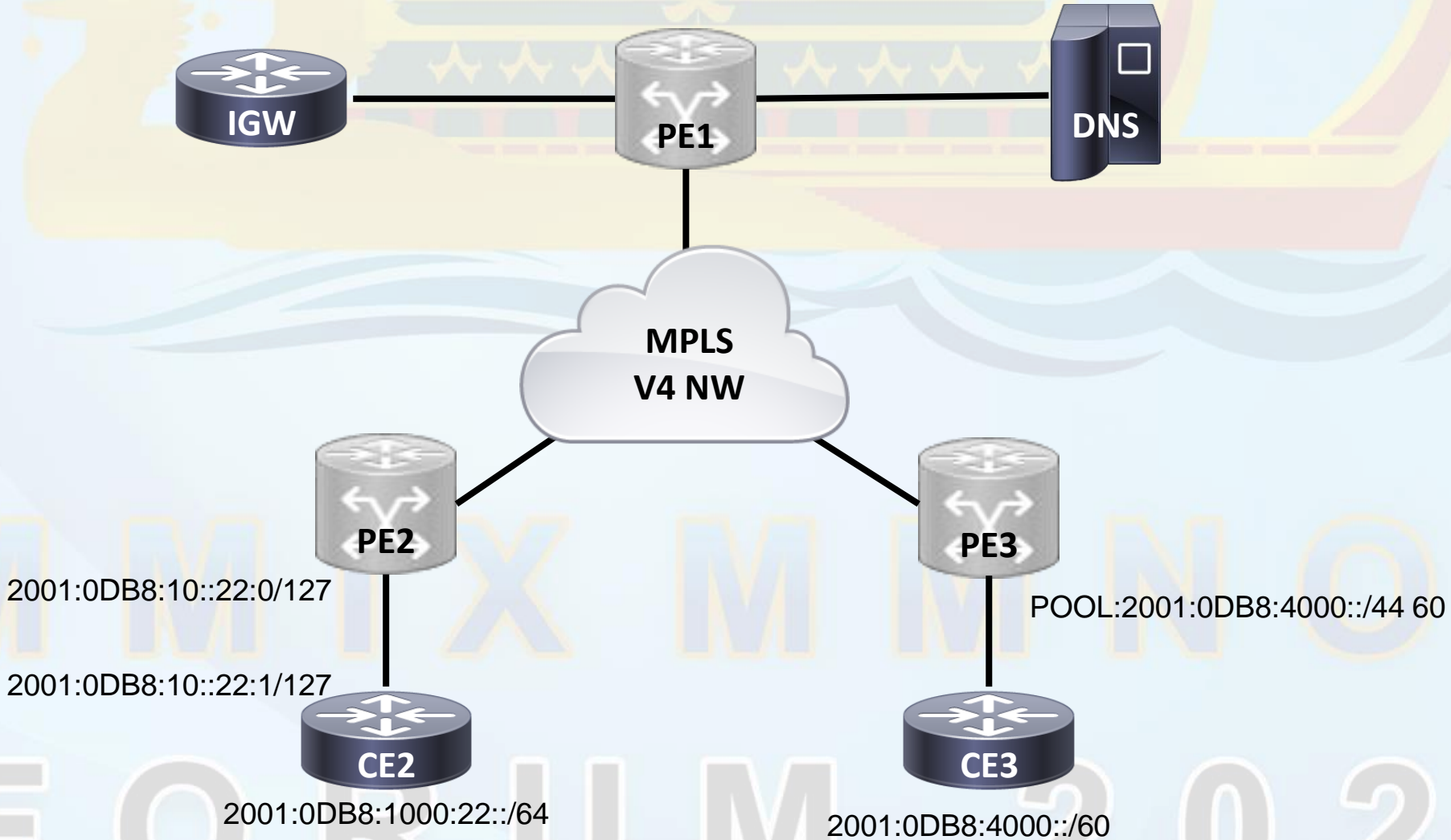
“Don’t forget adding prefix filtering”

Peer-Ro Config to connect MMIX

```
Peer-Ro(config)#  
interface FastEthernet1/0  
  description to_MMIX  
  ipv6 address 2001:DF3:1300::1001:10/64  
!  
router bgp 1001  
  no bgp enforce-first-as  
  neighbor 2001:DF3:1300::9654:1 remote-as 9654  
  neighbor 2001:DF3:1300::9654:1 description Route-Server  
!  
  address-family ipv6  
    neighbor 2001:DF3:1300::9654:1 activate  
  exit-address-family
```

“Don’t forget adding prefix filtering”

Core Networks



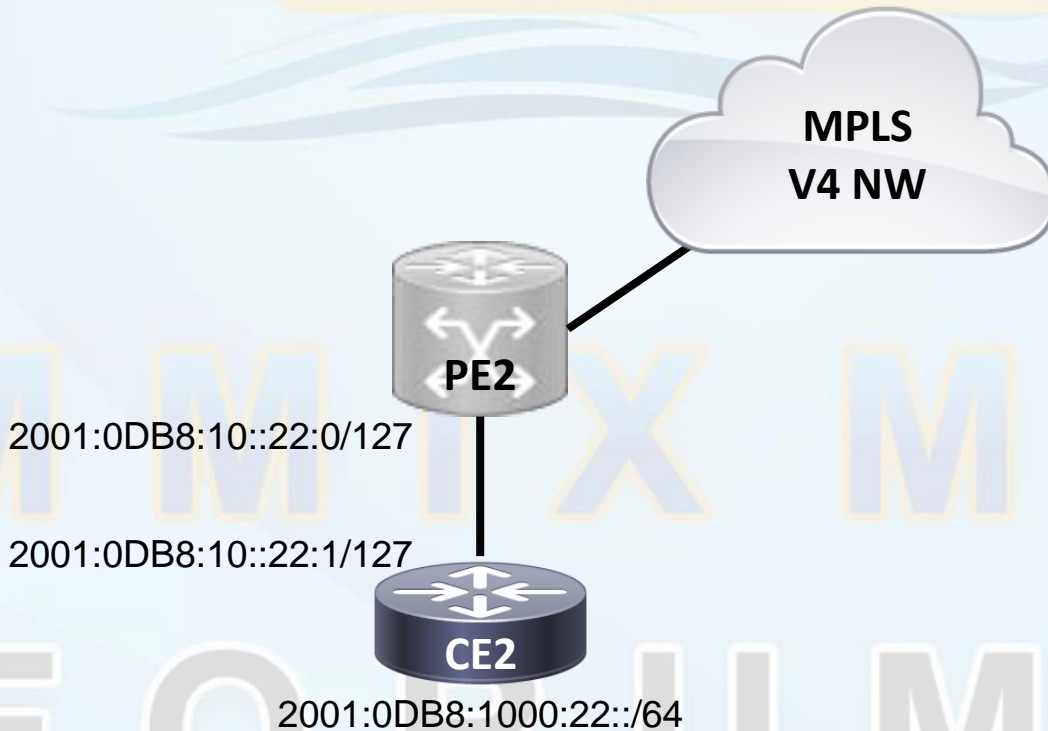
PE1 Config to Edged NW

```
PE-1(config)# interface FastEthernet1/0
vrf definition HSI vrf forwarding HSI
rd 10.1.0.1:10 ipv6 enable
address-family ipv6 ospfv3 network point-to-point
route-target 1001:10 ospfv3 1 ipv6 area 0
!
router ospfv3 1 !
! interface FastEthernet2/0
address-family ipv6 unicast vrf HSI vrf forwarding HSI
router-id 10.1.1.1 ipv6 enable
ospfv3 network point-to-point
ospfv3 1 ipv6 area 0
```


PE1 Config to Edged NW (Cont.)

```
router bgp 1001
!
address-family ipv6 vrf HSI
network 2001:0DB8::/32
neighbor 2001:0DB8::1:2 remote-as 1001
neighbor 2001:0DB8::1:2 description Peer-Ro
neighbor 2001:0DB8::1:2 activate
neighbor 2001:0DB8::1:2 next-hop-self
neighbor 2001:0DB8::1:3 remote-as 1001
neighbor 2001:0DB8::1:3 description IGW
neighbor 2001:0DB8::1:3 activate
neighbor 2001:0DB8::1:3 next-hop-self
exit-address-family
```

PE & CE config for Corp Client (Static route)



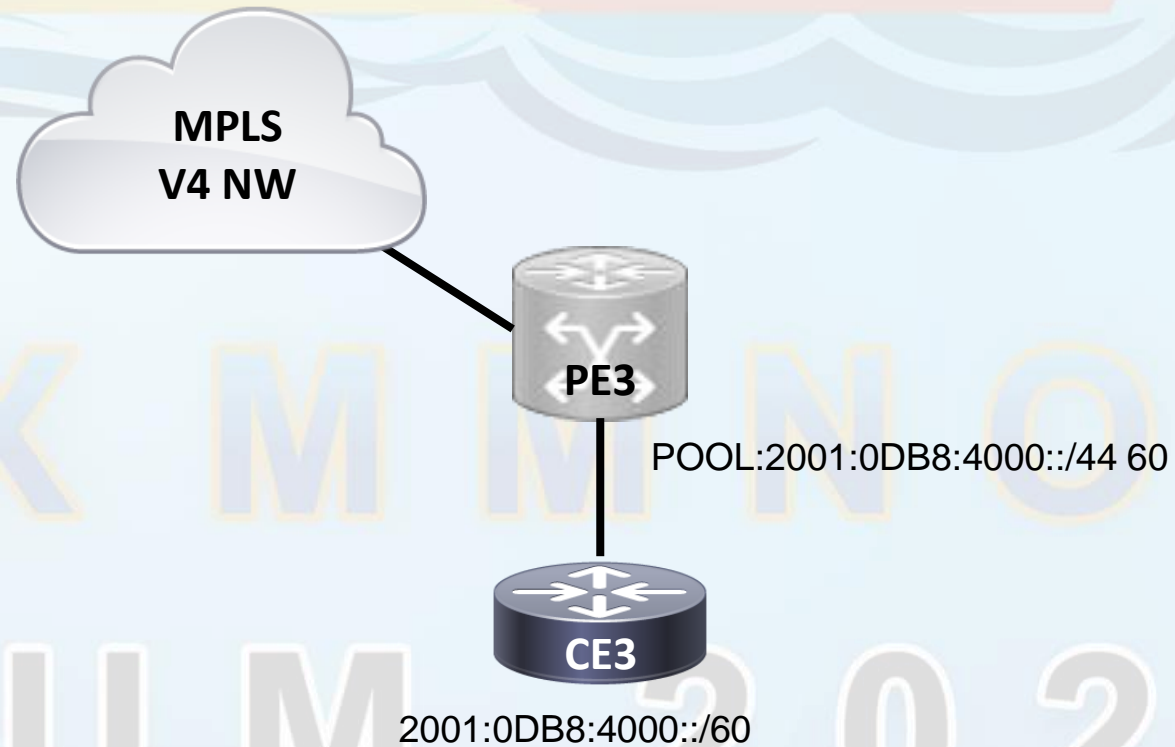
PE2 Config for a Corporate Customer

```
interface FastEthernet1/0
 vrf forwarding HSI
 ipv6 address 2001:0DB8:10::22:0/127
 !
 ipv6 route vrf HSI 2001:0DB8:1000:22::/64 2001:0DB8:10::22:1 name Corp_2
 !
 router bgp 1001
 address-family ipv6 vrf HSI
  network 2001:0DB8::1:2/128
  network 2001:0DB8:1000:22::/64
 !
```

CE2 Config of Corporate_2

```
CE2(config)#  
interface FastEthernet0/0  
description WAN  
ipv6 address 2001:0DB8:10::22:1/127  
!  
interface FastEthernet0/1  
description LAN  
ipv6 address 2001:0DB8:1000:22::1/64  
!  
ipv6 route ::/0 2001:0DB8:10::22:0
```

PE and CE config for Consumers (DHCP)



PE3 Config for Consumer

```
ipv6 dhcp server vrf enable
!
ipv6 dhcp pool V6-POOL
vrf HSI
prefix-delegation pool V6-CLIENT-POOL
dns-server 2001:0DB8:1:1::53
dns-server 2001:0DB8:1:2::53
domain-name mmnog.net
!
interface FastEthernet1/0
description to_Client
vrf forwarding HSI
ipv6 enable
ipv6 dhcp server V6-POOL

ipv6 local pool V6-CLIENT-POOL 2001:0DB8:4000::/44 60
```


CE3 Config of an Consumer

```
CE3(config)#  
interface FastEthernet0/0  
description Uplink_WAN  
ipv6 enable  
ipv6 dhcp client pd CE3  
!  
interface FastEthernet0/1  
description To_Client_LAN_1  
ipv6 address CE3 ::1:1:1:1:1:1/64  
!
```

PE3 Config for Consumer

```
interface FastEthernet1/0
description to_Client
vrf forwarding HSI
ipv6 enable
ipv6 dhcp server V6-POOL
```

M M I X M M N O G

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PE3 DHCP info

PE-3#show ipv6 dhcp binding vrf HSI

Client: FE80::C009:47FF:FEA4:0

DUID: 00030001C20947A40000

Username : unassigned

VRF : HSI

Interface : FastEthernet1/0

IA PD: IA ID 0x00040001, T1 302400, T2 483840

Prefix: **2001:0DB8:4000::/60**

preferred lifetime 604800, valid lifetime 2592000

expires at Jan 17 2020 09:59 PM (2590868 seconds)

CE3 Client info

```
CE3#sh ipv6 dhcp interface fa0/0
```

```
FastEthernet0/0 is in client mode
```

```
State is OPEN
```

```
Renew will be sent in 3d11h
```

```
List of known servers:
```

```
Reachable via address: FE80::C807:46FF:FE12:1C
```

```
DUID: 00030001CA0746120000
```

```
Preference: 0
```

```
.....
```

CE3 Client info (cont.)

Configuration parameters:

IA PD: IA ID 0x00040001, T1 302400, T2 483840

Prefix: **2001:0DB8:4000::/60**

preferred lifetime 604800, valid lifetime 2592000

expires at Mar 31 2002 12:52 AM (2589622 seconds)

DNS server: 2001:0DB8:1:1::53

DNS server: 2001:0DB8:1:2::53

Domain name: mmnog.net

Information refresh time: 0

Prefix name: CE3

Rapid-Commit: disabled

CE3 Client info (cont.)

CE3#sh ipv6 int br

FastEthernet0/0 [up/up]

FE80::C009:47FF:FEA4:0

FastEthernet0/1 [up/up]

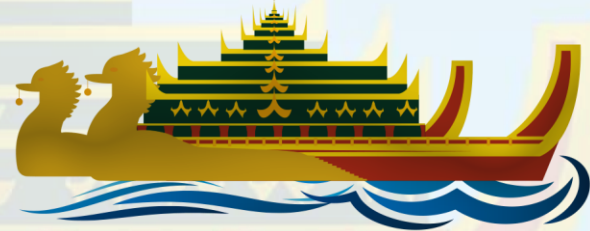
FE80::C009:47FF:FEA4:1

2001:0DB8:4000:1:1:1:1:1

M M I X M M N O G

F O R U M 2 0 2 0

MMIX MMNOG
FORUM 2020



Thank you

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