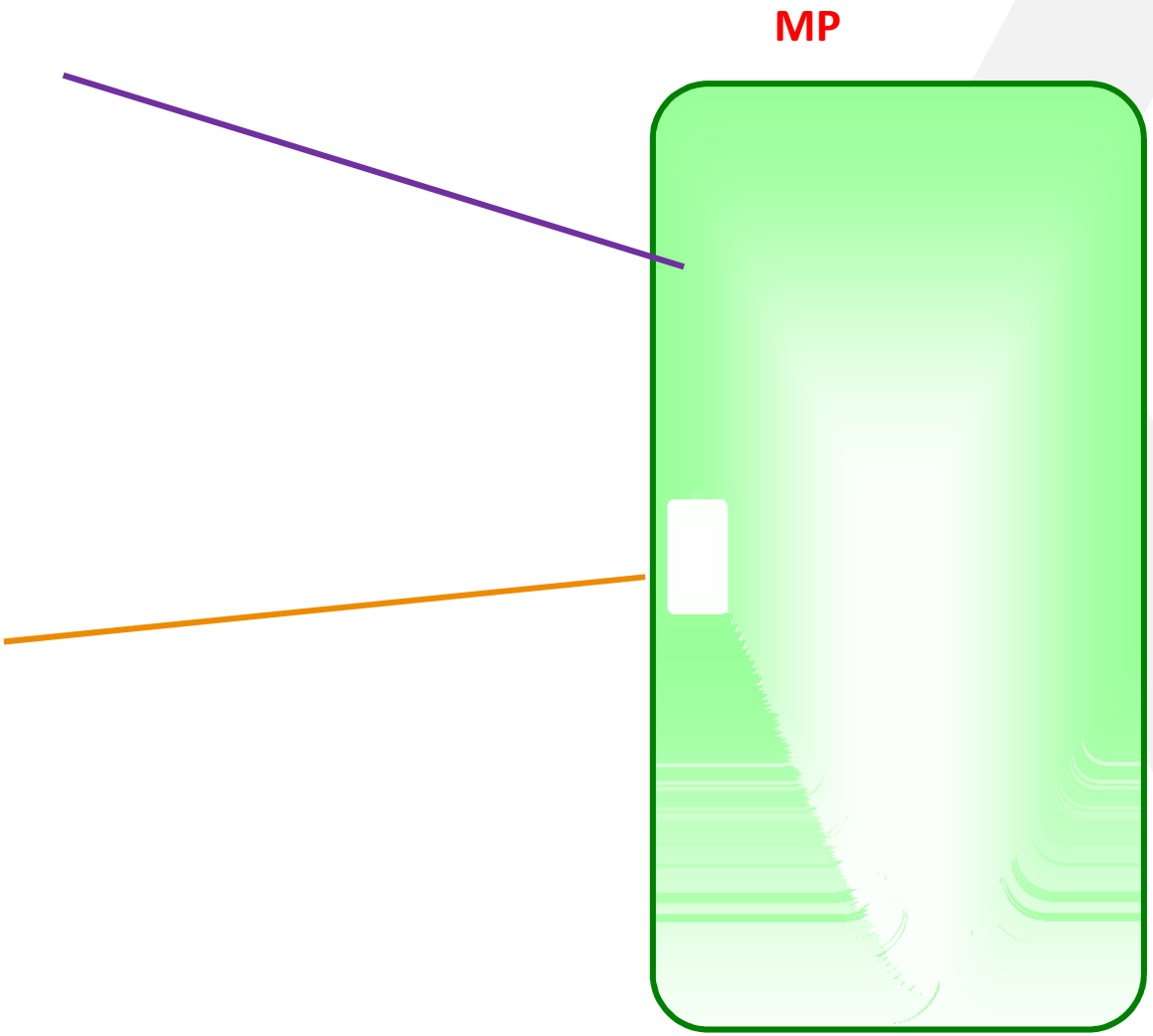
Proposal for mmREN Network

Agenda

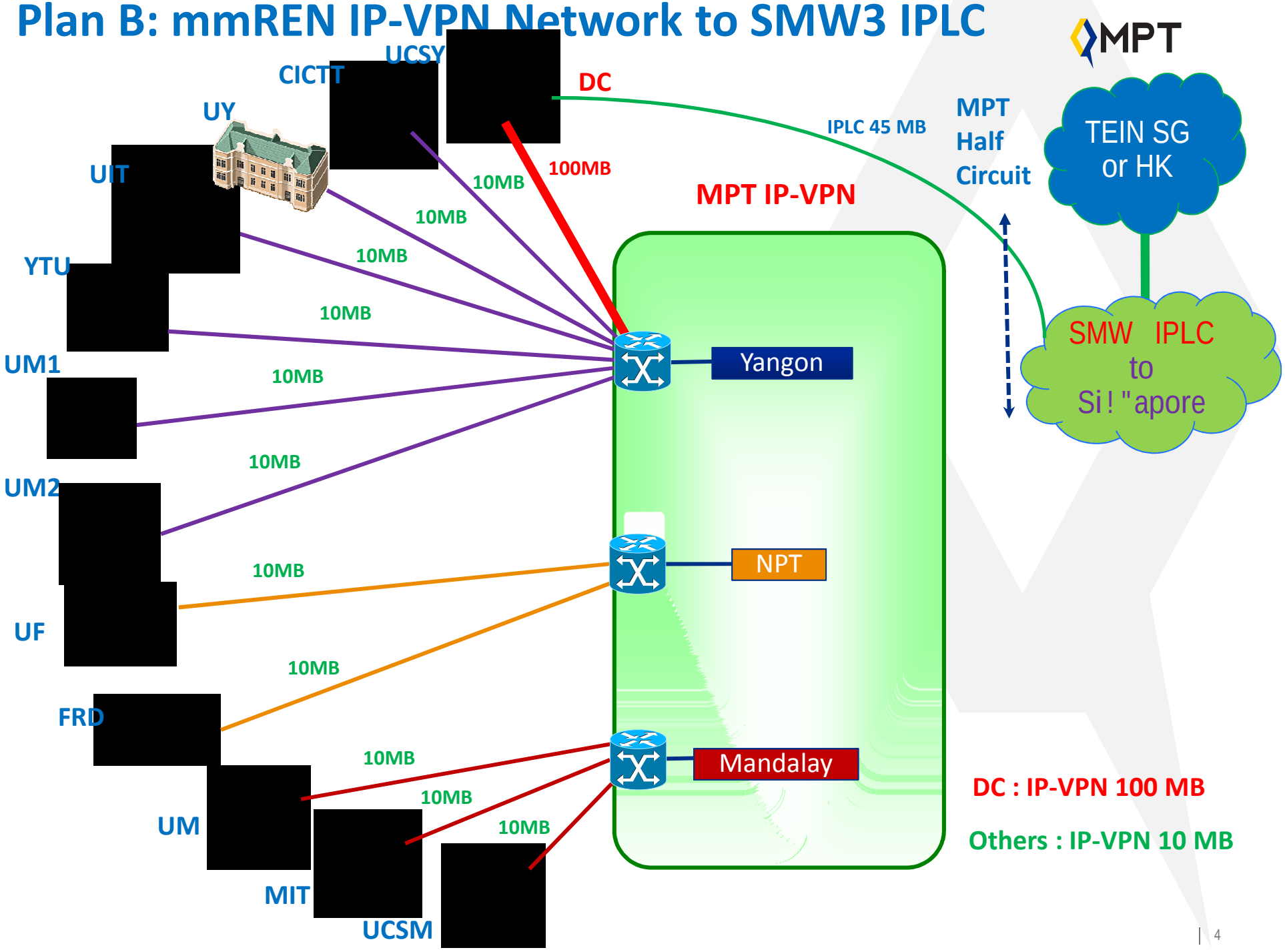
- mmREN IP-VPN Network to Myawaddy IPLC
- mmREN IP-VPN Network to SMW3 IPLC
- mmREN Internet Network

Plan A: mmREN IP-VPN Network to Myawaddy IPLC

[redacted]



Plan B: mmREN IP-VPN Network to SMW3 IPLC



Advantage of MPT's IP-VPN

Se#$rity

- Traffic protected in MPT MPLS NW
- Private connection to MPT Exchange.

Cost

- Charge based on site-MPT Ex distance
- Less number of circuits for Meshed NW

IP-VPN

- 3 cities available. Expanding in future
- GW for Int'l & Internet (Planed)

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- Contracted bandwidth is guaranteed.
- 24/365 Monitoring, QoS options, etc.

Relia&ility

IP-VPN Monthly Recurring Charges

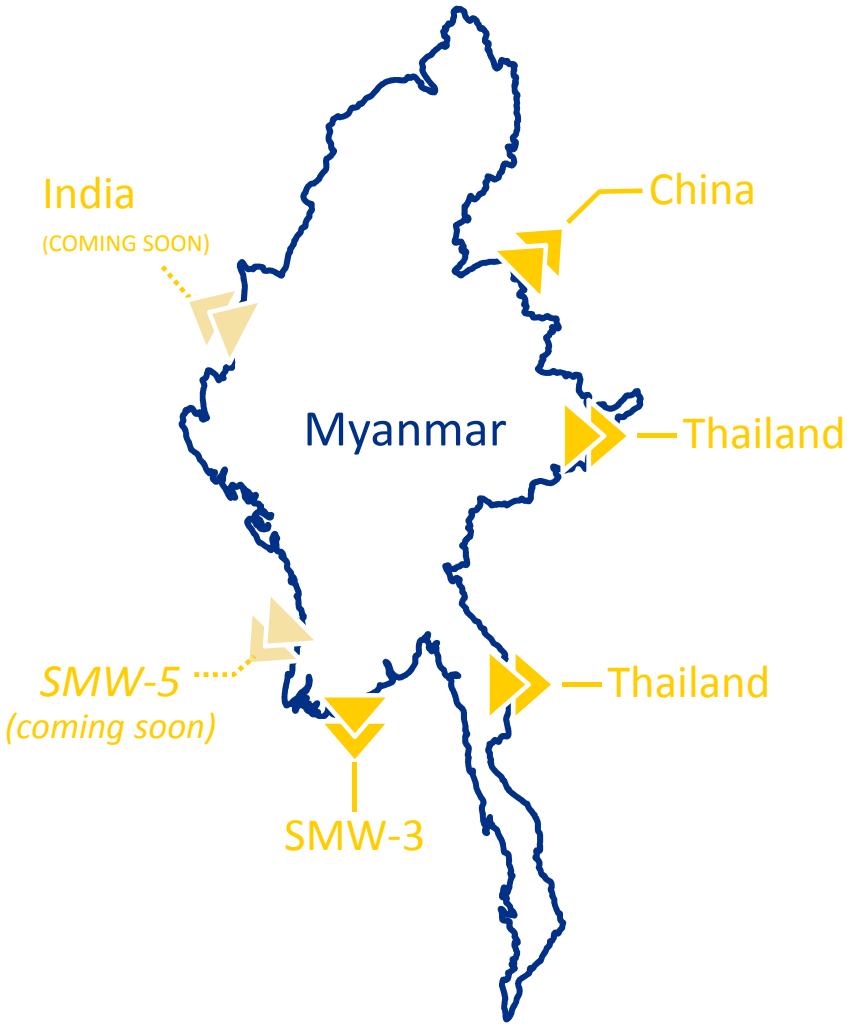
	Only Port Fee
1M	$ 300
2M	$ 420
3M	$ 550
4M	$ 650
5M	$ 750
6M	$ 800
7M	$ 900
8M	$ 1,000
9M	$ 1,100
10M	$ 1,200
20M	$ 2,000
30M	$ 2,600
40M	$ 3,500
50M	$ 5,000
100M	$ 8,000
200M	$ 12,000
300M	$ 22,000
400M	$ 25,000
500M	$ 30,000
1G	$ 60,000

" This rate is subject to an additional 5% commercial tax starting April 1, 2016"

Proposed IP-VPN Price for MYANMAR EDUCATION NETWORK (UCSY)

Sr	Site Name	Division	Bandwidth	One Time Charges		Monthly Recurring Charges	
				Installation Cost	Equipment Cost (MMK)	Normal Price	Discounted Price (40%)
1	University of Computer Studies, Yangon (DC)	YANGON	100 Mbps	500,000	159,000	$8,000	$4,800
2	University of Information Technology	YANGON	10 Mbps	500,000	159,000	$1,200	$720
3	Centre for Information and Communication Technology Training (CICTT)	YANGON	10 Mbps	500,000	159,000	$1,200	$720
4	University of Computer Studies, Mandalay	MANDALAY	10 Mbps	500,000	159,000	$1,200	$720
5	Yangon Technological University	YANGON	10 Mbps	500,000	159,000	$1,200	$720
6	Mandalay Technological University	MANDALAY	10 Mbps	500,000	159,000	$1,200	$720
7	University of Medicine I	YANGON	10 Mbps	500,000	159,000	$1,200	$720
8	University of Medicine II	YANGON	10 Mbps	500,000	159,000	$1,200	$720
9	University of Medicine (Mandalay)	MANDALAY	10 Mbps	500,000	159,000	$1,200	$720
10	University of Forestry	YAEZIN	10 Mbps	500,000	159,000	$1,200	$720
11	Forestry Reserarch Department	YAEZIN	10 Mbps	500,000	159,000	$1,200	$720
12	University of Yangon	YANGON	10 Mbps	500,000	159,000	$1,200	$720
Total				**6,000,000**	**1,908,000**	**$21,200**	**$12,720**

Connecting Myanmar to the world



> MPT: the leader in international capacity

> Scalable global connectivity

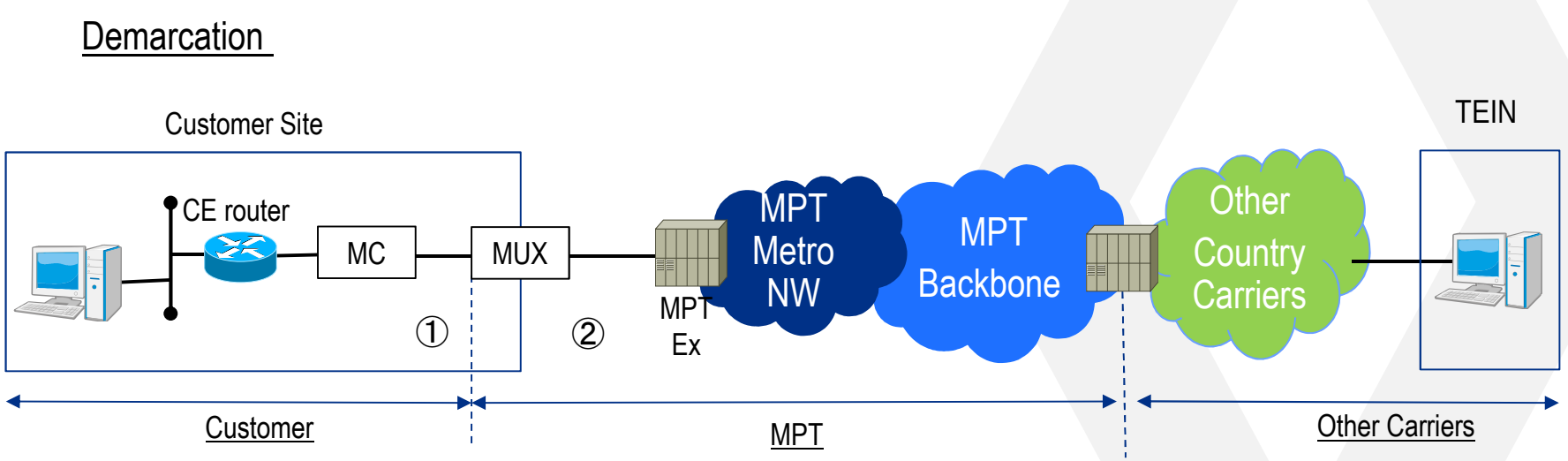
> Multiple links to maintain reliability

> Leveraging KDDI's strong partnerships

MPT International Private Leased Circuit (IPLC) Services

> Reliable, high-performance connectivity to global and regional HQs

IPLC (Circuit Diagram)

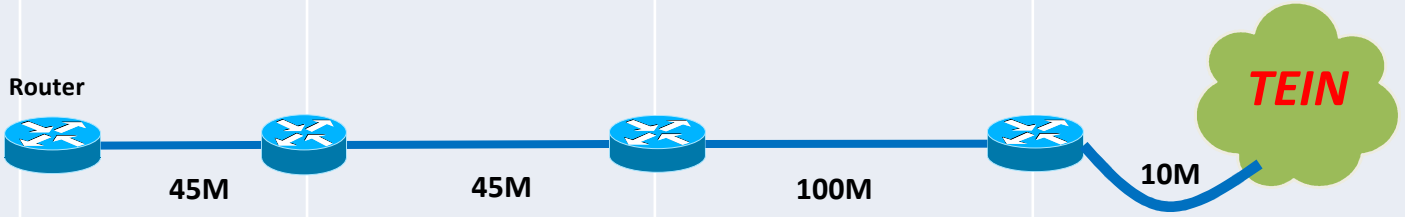


① In-house cable need to be provided and installed by Customer

② Access line and MUX are installed by MPT.

IPLC Via Myawaddy to Thailand (Recommend)

LOCATION	MPT to Myawaddy (Border)	Myawaddy to Mae Sot(TH)	Mae Sot to ThaiREN	ThaiREN to TEIN SG or HK
USD/YR (USD/MR)	840K (70,000)	[Need to confirm with oversea side]	30K (25,00)	0
NET-WORK Layer3 OVER-VIEW				



SHARE ThaiREN NETWROK

*Abbreviations
MM: Myanmar, TH: Thailand
HK: Hong Kong, SG: Singapore

R&E traffic only

IPLC One Time Charges

Installation Fee (MMK) / Per Site						
Distance*	less than or equal to 500m	more than 500m less than or equal to 1,000m	more than 1,000m less than or equal to 1,500m	more than 1,500m less than or equal to 2,000m	more than 2,000m less than or equal to 2,500m	more than 2,500m
Yangon & Mandalay	**1,400,000**	**2,100,000**	**2,800,000**	**3,500,000**	**4,200,000**	**Based on site survey**
Other Cities	**Based on site survey**					
Equipment Cost (MMK) / Per Site						
MUX	974,000					

Activation Fee (USD)	**1,500**

* Distance : from MPT's Exchange to the customer site

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IPLC Monthly Recurring Charges (Standard Price)

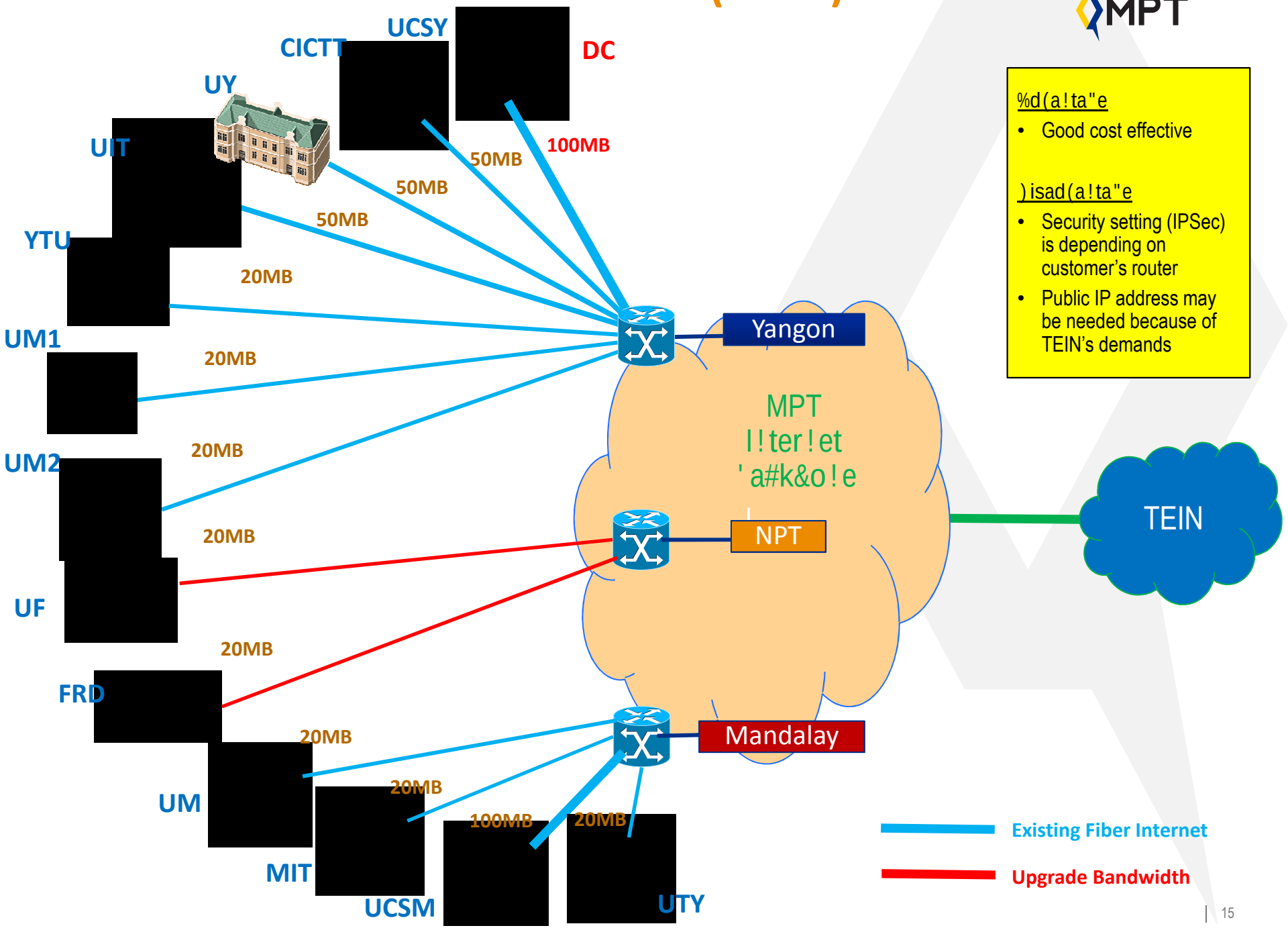
	64 Kbps	128 Kbps	192 Kbps	256 Kbps	384 Kbps	512 Kbps	1 Mbps	2 Mbps	10 Mbps	45 Mbps	155 Mbps
Monthly Fee (USD)	2,000	2,500	3,500	4,000	5,000	6,000	8,000	9,000	30,000	70,000	150,000

" This rate is subject to an additional 5% commercial tax starting April 1, 2016"

Proposed IPLC Charges for MYANMAR EDUCATION NETWORK (UCSY)

One Time Charges	Equipment Cost (MMK)		Installation Cost (MMK)		Activation Fee (USD)	
	974,000		500,000		1,500	
Monthly Fee (USD)	1 Mbps	2 Mbps	10 Mbps	20 Mbps	45 Mbps	155 Mbps
Standard Price	8,000	9,000	30,000	50,000	70,000	150,000
Discounted Price (50%)	**4,000**	**4,500**	**15,000**	**25,000**	**35,000**	**75,000**

Plan C: mmREN Internet Network (IPsec)



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Sr	Site Name	Division	Required Upgrade Bandwidth	One Time Charges			Monthly Fee (MMK)
				Equipment Cost	Installation Cost	Activation Fee	
1	University of Computer Studies, Yangon	YANGON	100 Mbps	-	-	Difference Between the Activation Fees of Required Upgrade Bandwidth and Existing Bandwidth	7,000,000
2	University of Information Technology	YANGON	50 Mbps	-	-		3,500,000
3	Centre for Information and Communication Technology Training (CICTT)	YANGON	50 Mbps	-	-		3,500,000
4	University of Computer Studies, Mandalay	MANDALAY	100 Mbps	-	-		7,000,000
5	Yangon Technological University	YANGON	20 Mbps	-	-		1,500,000
6	Mandalay Technological University	MANDALAY	20 Mbps	-	-		1,500,000
7	University of Medicine I	YANGON	20 Mbps	-	-		1,500,000
8	University of Medicine II	YANGON	20 Mbps	-	-		1,500,000
9	University of Medicine (Mandalay)	MANDALAY	20 Mbps	-	-		1,500,000
10	University of Forestry	YAEZIN	20 Mbps	-	-		1,500,000
11	Forestry Reserarch Department	YAEZIN	20 Mbps	-	-		1,500,000
12	University of Yangon	YANGON	50 Mbps	-	-		3,500,000
13	University of Technology (Yadanapone)	MANDALAY	20 Mbps	-	-		1,500,000
Total							**36,500,000**

MPT
Moving Myanmar Forward