draft-ycai-mboned-mvpn-pim-deploy-02

- **Purpose**: “Create ‘practice and experience’ documents that capture the experience of those who have deployed and are deploying various multicast technologies.” In this case, pim based mvpn.

- **02 revisions**:
  - –Removed historical mentioning of draft-rosen
  - –Added Alcatel-Lucent TimOS mvpn implementation
  - –Added scaling numbers from Wim

- **Suggestions**:
  - –Need info on resiliency being deployed in mvpn.

- **Intended status**?
  - –informational

Multicast VPN Scalability Example

Input Parameters	Input
Number of P interfaces	5
Number of PE P-PIM interfaces	2
Number of PE C-PIMinterfaces	1
Number of PE	20
Number of M-VPN	100
Data MDT/VPN	2

		PE PIM State			P PIM State		
		Default MDT/PE	Data MDT/PE	Total MDT State/PE	Default MDT/RP or P	Data MDT/RP or P	Total MDT State/P
Scenario1: default MDT: PIM SSM data MDT: PIM SSM		PIM SSM	PIM SSM	Default MDT: PIM SSM + Data MDT: PIM SSM	PIM SSM	PIM SSM	Default MDT: PIM SSM + Data MDT: PIM SSM
	(S,G) state	2000	4000	6000	2000	4000	6000
	(*,G) state	0	0	0	0	0	0
	total (S,G) and (*,G) state	2000	4000	6000	2000	4000	6000
	Default MDT PIM neighbours	1900		1900	NA	NA	NA
	Default MDT	100		100	NA	NA	NA
	Inband MDT		3800	3800	NA	NA	NA
	Outband MDT		200	200	NA	NA	NA
Scenario2: default MDT: PIM SM with SPT switchover data MDT: PIM SSM		PIM SM w/ SPT switchover	PIM SSM	Default MDT: PIM SM w/ SPT switchover + Data MDT: PIM SSM	PIM SM w/ SPT switchover	PIM SSM	Default MDT: PIM SM w/ SPT switchover + Data MDT: PIM SSM
	(S,G) state	2000	4000	6000	2000	4000	6000
	(*,G) state	100	0	100	100	0	100
		2100	4000	6100	2100	4000	6100
	Default MDT PIM neighbours	1900		1900	NA	NA	NA
	Default MDT	100		100	NA	NA	NA
	Inband MDT		3800	3800	NA	NA	NA
	Outband MDT		200	200	NA	NA	NA
Scenario3: default MDT: PIM SM without SPT switchover data MDT: PIM SSM		PIM SM w/o SPT switchover	PIM SSM	Default MDT: PIM SM w/o SPT switchover + Data MDT: PIM SSM	PIM SM w/o SPT switchover	PIM SSM	Default MDT: PIM SM w/o SPT switchover + Data MDT: PIM SSM
	(S,G) state	100	4000	4100	2000	4000	6000
	(*,G) state	100	0	100	100	0	100
		200	4000	4200	2100	4000	6100
	Default MDT PIM neighbours	1900		1900	NA	NA	NA
	Default MDT	100		100	NA	NA	NA
	Inband MDT		3800	3800	NA	NA	NA
	Outband MDT		200	200	NA	NA	NA