Performance Parameters

They are defined as a string to accommodate proprietary extension.
Enhancements and corrections wrt Version 3.0 are identified as blue marked text.

Valid values are:

Name	Description	Source Standard	Layer rate / object
"PMP_AE"	Received Alignment Errors: dot3StatsAlignmentErrors or etherStatsCRCAlignErrors Rx (combined FCS and Alignment errors) MEF: FCS and Alignment Errors	RFC ~~2665~~3635 or RFC 2819 MEF 15	LR_Ethernet
"PMP_AISS"	Alarm Indication Signal (AIS) Seconds (counter)	ANSI T1.231	
"PMP_ATM_TC_CELLS"	Count of cells received or transmitted on this ATM NI	RFC 2515 AF-NM-0020.001 I.751	LR_ATM_NI
"PMP_ATT"	Measured difference in the total power transmitted by the peer ATU and the total power received by this ATU.	RFC-2662	LR_DSL
"PMP_B1_CVS"	B1 Coding Violation Seconds (counter) aka ES		
"PMP_BBE"	Background Block Errors (counter)	G.826	
"PMP_BBER"	BBE Ratio (counter)	G.826	
"PMP_BER"	Bit Error Rate, meter parameter = a measure of the signal quality measured at the facility port input, expressed as a bit error rate (measurement/estimation methods are NE-specific)	ANSI T1.231	
"PMP_BER_AVG"	Average Bit Error Rate during the interval		
"PMP_BER_MAX"	Maximum Bit Error Rate during the interval		
"PMP_BER_MIN"	Minimum Bit Error Rate during the interval		
"PMP_BES"	Bursty Errored Seconds(counter)		

Name	Description	Source Standard	Layer rate / object
"PMP_BLKS_Rx"	Count of all encoded blocks received on this channel since agent reset.	RFC-2662	LR_DSL
"PMP_BLKS_Tx"	Count of all encoded blocks transmitted on this channel since agent reset.	RFC-2662	LR_DSL
"PMP_~~CONF~~BROADCASTPKTS"	etherStatsConfBroadcastPkts RX Received Broadcast packets: ifInBroadcastPkts Transmitted Broadcast packets: ifOutBroadcastPkts MEF: Broadcast Frames Transmitted OK; Broadcast Frames Received OK	RFC 2819 RFC 2863 MEF 15	LR_Ethernet PTP, CPTP
"PMP_CELL[<qualifier>]"	Count of received or transmitted cells	RFC 2512	LR_ATM_NI LR_ATM_VP LR_ATM_VC
"PMP_CELL_LOST[<qualifier>]"	Count of received or transmitted lost cells	AF-NM-0020.001	LR_ATM_VP LR_ATM_VC
"PMP_CELL_MISINS[<qualifier>]"	Count of received or transmitted misinserted cells	AF-NM-0020.001	LR_ATM_VP LR_ATM_VC
"PMP_COLLISIONS"	etherStatsCollisions Rx	RFC 2819	LR_Ethernet
"PMP_CORR_BLKS"	Count of all blocks received with errors that were corrected since agent reset. These blocks are passed on as good data. Note: adslAtucChanUncorrectBlks is already present as PMP_CV	RFC-2662	LR_DSL
"PMP_CRC"	Cyclical Redundancy Check (counter) kind of error detection code (edc)		
"PMP_CRE"	dot3StatsCarrierSenseErrors Tx	RFC ~~2665~~3635	LR_Ethernet
"PMP_CURR_ATTAIN_RATE"	Indicates the maximum currently attainable data rate by the ATU. This value will be equal or greater than the current line rate.	RFC-2662	LR_DSL
"PMP_CURR_Tx_RATE"	Actual transmit rate on this channel.	RFC-2662	LR_DSL
"PMP_CV"	Code Violations (counter)	GR 253	
"PMP_DISC_CONG[<qualifier>]"	Count of cells discarded due to congestion	AF-NM-0020.001 I.732	LR_ATM_NI

Name	Description	Source Standard	Layer rate / object
"PMP_DISC_HEC_VIOL[<qualifier>]"	Count of discarded cells due to HEC violation	RFC-2515 AF-NM-0020.001 I.751 GR-1248	LR_ATM_NI
"PMP_DISC_PROT_ERR"	Count of discarded cells due to protocol errors	AF-NM-0020.001 I.751 GR-1248	LR_ATM_NI
"PMP_DISCARDS"	Received packets discarded: ifInDiscards ~~Rx~~ Transmitted packets discarded: ifOutDiscards ~~Tx~~	RFC 2863	LR_Ethernet PTP, CPTP
"PMP_DS3_PLCP_SEFS"	Count of DS3 PLCP Severely Errored Framing Seconds	RFC 2515	LR_ATM_NI
"PMP_DS3_PLCP_UAS"	Count of DS3 PLCP Unavailable Seconds	RFC 2515	LR_ATM_NI
"PMP_DTX"	Deferred Transmissions: dot3StatsDeferredTransmissions ~~Tx~~	RFC ~~2665~~3635	LR_Ethernet
"PMP_DVB_DISC"	Discarded packets after receiving (Transmitter Discarded Packets)	ETSI TR 101 891 T1X1.5/2002-025	LR_DVB
"PMP_DVB_GFPCRC"	Superblocks not corrected by CRC	ETSI TR 101 891 T1X1.5/2002-025	LR_DVB
"PMP_DVB_GFPSUP"	Transmitting/Receiving Superblocks	ETSI TR 101 891 T1X1.5/2002-025	LR_DVB
"PMP_DVB_LOS"	LOS detected and LCS detected	ETSI TR 101 891 T1X1.5/2002-025	LR_DVB
"PMP_DVB_PKTS"	Receiving/Transmitting MPEG2 packets	ETSI TR 101 891 T1X1.5/2002-025	LR_DVB
"PMP_DVB_WDERR"	Word Error of 8B10B coding and disparity error (Transmitter 10BERR words)	ETSI TR 101 891 T1X1.5/2002-025	LR_DVB
"PMP_EB"	Errored Blocks (counter)	G.806 G.826	
"PMP_EC"	Transmitted with excessive collisions: dot3StatsExcessiveCollisions ~~Tx~~	RFC ~~2665~~3635	LR_Ethernet

Name	Description	Source Standard	Layer rate / object
"PMP_EGRESS_GREEN_FRAME_COUNT<cos>"	egressGreenFrameCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_EGRESS_GREEN_OCTET_COUNT<cos>"	egressGreenOctetCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_EGRESS_YELLOW_FRAME_COUNT<cos>"	egressYellowFrameCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_EGRESS_YELLOW_OCTET_COUNT<cos>"	egressYellowOctetCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_ERRORS"	Received packets in error: ifInErrors ~~Rx~~ Transmitted packets in error: ifOutErrors ~~Tx~~	RFC 2863 RFC 3635	LR_Ethernet PTP, CPTP
"PMP_ES"	Errored Seconds (counter)	G.826	
"PMP_ES_TA"	Errored Seconds Type A (counter)	ANSI T1.231	
"PMP_ES_TB"	Errored Seconds Type B (counter)	ANSI T1.231	
"PMP_ESR"	ES Ratio ~~(counter)~~	G.826	

Name	Description	Source Standard	Layer rate / object
"PMP_FC"	Failure Count (counter)	ANSI T1.231	
	Count of near-end or far-end receive or transmit failure alarm conditions	af-phy-0086.001: "imaLinkNeTxNumFailures", "Tx-FC", "imaLinkNeRxNumFailures", "Rx-FC", "imaLinkFeTxNumFailures", "Tx-FC-FE", "imaLinkFeRxNumFailures", "Rx-FC-FE"	LR_Fragment of IMA link CTP
"PMP_FCSE"	Received FCS Errors: dot3StatsFCSErrors ~~Rx~~ etherStatsCRCAlignErrors (combined FCS and Alignment errors) MEF: FCS and Alignment Errors	RFC ~~2665~~3635 RFC 2819 MEF 15	LR_Ethernet
~~"PMP_FEC_EC"~~ Note: Same as "PMP_FCSE" (above)	~~Forward Error Correction Error Count (counter)~~		
"PMP_FEC_SCS"	count of forward error corrections seconds		LR_DSL
"PMP_FEC_UBC"	Forward Error Correction Uncorrectable Block Count (counter)		
"PMP_FFRA"	count of failed fast retrain attempts		LR_DSL
"PMP_FRA"	count of fast retrain attempts Note: G.992.2 (ADSL.lite) defines a fast retrain procedure to adapt transmission characteristics to changing line conditions caused by e.g. phone on/off hook transitions. It can be started by either TU-R and TU-C/O and is based on the concept of stored profiles at the TU-C/O.		LR_DSL
"PMP_FRAMES"	Total in frames or EtherStatsPkts Rx Total number of outbound frames Tx	RFC 2819	LR_Ethernet
"PMP_FRAME_DELAY_ONEWAY<cos>"	Frame Delay (one-way)	MEF 15	LR_Ethernet FP (per COS)
"PMP_FRAME_DELAY_ROUNDTRIP<cos>"	Frame Delay (round trip)	MEF 15	LR_Ethernet FP (per COS)

Name	Description	Source Standard	Layer rate / object
"PMP_FRAME_DELAY_VARIATION<cos>"	Frame Delay Variation	MEF 15	LR_Ethernet FP (per COS)
"PMP_FREQUENCY"	meter parameter = It specifies the measured optical channel frequency of tunable lasers		
"PMP_FREQUENCY_AVG"	Average optical channel frequency during the interval		
"PMP_FREQUENCY_MAX"	Maximum optical channel frequency during the interval		
"PMP_FREQUENCY_MIN"	Minimum optical channel frequency during the interval		
"PMP_FSRC"	failed switch request counter	ETSI EN 301 129 ITU-R F.750-4	
"PMP_FSRD"	failed switch request duration	ETSI EN 301 129 ITU-R F.750-4	
"PMP_FTLE"	Received Frame too long: dot3StatsFrameTooLongs ~~Rx~~ etherStatsOversizePkts MEF: Oversized Frames	RFC ~~2665~~3635 RFC 2819 MEF 15	LR_Ethernet
"PMP_GFP_FRAMES_DISCARDED_HEC"	GFP Frames discarded (tHEC, eHEC)	G.7041/Y1303	CPTP
"PMP_GFP_FRAMES_DISCARDED_UPI_PTI"	GFP Frames discarded (UPI, PTI)	G.7041/Y1303	CPTP
"PMP_GFP_pFCS_ERRORS"	GFP pFCS error	G.7041/Y1303	CPTP
"PMP_GFP_CRC16_ERRORS"	GFP GFP-T CRC16 error	G.7041/Y1303	CPTP
"PMP_GREEN_FRAME_DISCARDS<cos>"	greenFrameDiscards (due to congestion)	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_GREEN_OCTET_DISCARDS<cos>"	greenOctetDiscards (due to congestion)	MEF 15	LR_Ethernet CPTP, FP (also per COS)

Name	Description	Source Standard	Layer rate / object
"PMP_IF_MAU_FALSE_CARRIERS"	ifMauFalseCarriers	RFC 3636 MEF 15	LR_ETY PTP
"PMP_IF_MAU_JABBERING_STATE_ENTERS"	ifMauJabberingStateEnters	RFC 3636 MEF 15	LR_ETY PTP
"PMP_IF_MAU_MEDIA_AVAILABLE_STATE_EXITS"	ifMauMediaAvailableStateExits	RFC 3636 MEF 15	LR_DSR PTP
"PMP_INGRESS_GREEN_FRAME_COUNT <cos>"	ingressGreenFrameCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_INGRESS_GREEN_OCTET_COUNT <cos>"	ingressGreenOctetCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_INGRESS_RED_FRAME_COUNT <cos>"	ingressRedFrameCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_INGRESS_RED_OCTET_COUNT <cos>"	ingressRedOctetCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_INGRESS_YELLOW_FRAME_COUNT <cos>"	ingressYellowFrameCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_INGRESS_YELLOW_OCTET_COUNT <cos>"	ingressYellowOctetCount	MEF 15	LR_Ethernet CPTP, FP (also per COS)

Name	Description	Source Standard	Layer rate / object
"PMP_INTLV_DELAY"	Interleave Delay for this channel. Interleave delay applies only to the interleave channel and defines the mapping (relative spacing) between subsequent input bytes at the interleaver input and their placementin the bit stream at the interleaver output. Larger numbers provide greater separation between consecutive input bytes in the output bit stream allowing for improved impulse noise immunity at the expense of payload latency. In the case where the ifType is Fast(125), use noSuchObject.	RFC-2662	LR_DSL
"PMP_INTMACERR"	Receive MAC errors: dot3StatsInternalMacReceiveErrors~~-Rx~~ Transmit MAC errors: dot3StatsInternalMacTransmitErrors~~-Tx~~	RFC ~~2665~~3635 RFC ~~2665~~3635	LR_Ethernet
"PMP_INVALID_CE-VLAN-ID"	Invalid CE-VLAN ID	MEF 15	LR_Ethernet CPTP
"PMP_IV"	ICP violations (IV): count of errored, invalid or missing ICP cells, except during SES-IMA or UAS-IMA conditions	af-phy-0086.001: “imaLinkImaViolations”, “IV-IMA”	LR_Fragment of IMA link CTP
"PMP_LBC"	Laser BackFire Current (gauge)		
"PMP_LBC_AVG"	Laser BackFire Current Average (gauge)		
"PMP_LBC_MAX"	Laser BackFire Current Maximum (gauge)		
"PMP_LBC_MIN"	Laser BackFire Current Minimum (gauge)		
"PMP_LC"	Transmitted with late collisions: dot3StatsLateCollisions~~-Tx~~	RFC ~~2665~~3635	LR_Ethernet
"PMP_LCAS_PARTIAL_LOSS_OF_CAPACITY"	LCAS partial loss of capacity	G.7042/Y.1305	CPTP
"PMP_LIA"	count of the (successful or failed) line initialization attempts		LR_DSL
"PMP_LOFS"	count of loss of frame seconds		LR_DSL
"PMP_LOLS"	count of loss of link seconds		LR_DIGITAL_SIGNAL_RATE

Name	Description	Source Standard	Layer rate / object
"PMP_LOSS"	count of loss of signal seconds		LR_DIGITAL_SIGNAL_RATE
"PMP_LOSWS"	count of loss of sync word seconds		LR_DSL
"PMP_LPRS"	count of loss of power seconds		LR_DIGITAL_SIGNAL_RATE
"PMP_LSS"	Loss of Signal Seconds (counter)		LR_DIGITAL_SIGNAL_RATE
"PMP_MCF"	Transmitted Multiple Collision Frames: dot3StatsMultipleCollisionFrames ~~Tx~~	RFC ~~2665~~3635	LR_Ethernet
"PMP_~~CONF~~MULTICASTPKTS"	Received Multicast packets: ifInMulticastPkts (etherStats~~Conf~~MulticastPkts ~~Rx~~) Transmitted Multicast packets: ifOutMulticastPkts MEF: Multicast Frames Transmitted OK; Multicast Frames Received OK	RFC 2863 (2819) RFC 2863 MEF 15	LR_Ethernet PTP, CPTP
"PMP_NPJ"	Negative Pointer Justification (counter)		
"PMP_OAM"	Count of OAM cells only that were received by the ATM Interface, only received	AF-NM-0020.001	LR_ATM_NI
"PMP_OCD"	Count of Out of Cell Delineation anomalies	GR 1248	LR_ATM_NI
"PMP_OCTECTS"	Received octets in valid MAC frames: ifInOctets or EtherStatsOctets ~~Rx~~ Transmitted octets in valid MAC frames: ifOutOctets ~~Tx~~ MEF: Octets Transmitted OK; Octets Received OK	RFC 2863 or RFC 2819 RFC 2863 MEF 15	LR_Ethernet PTP, CPTP
"PMP_OI"	Unavailability events in the measurement period, Outage Intensity (counter)	G.827	
"PMP_OIF"	Count of OIF anomalies, except during SES-IMA or UAS-IMA conditions, near-end, received or transmitted	af-phy-0086.001: “imaLinkOifAnomalies”, “OIF-IMA”	LR_Fragment of IMA link CTP
"PMP_OPT_LBIAS"	Current Laser Bias Current (also known as Pump Current)		
"PMP_OPT_LBIAS_AVG"	Average Laser Bias Current during the interval		
"PMP_OPT_LBIAS_MAX"	Maximum Laser Bias Current during the interval		

Name	Description	Source Standard	Layer rate / object
"PMP_OPT_LBIAS_MIN"	Minimum Laser Bias Current during the interval		
"PMP_OPT_LBIASN"	Laser Bias Current Normalized, meter parameter = It specifies the current Laser Bias Current is a normalized percentage (normalization algorithms are NE-specific)		
"PMP_OPT_LBIASN_AVG"	Average Laser Bias Current Normalized during the interval		
"PMP_OPT_LBIASN_MAX"	Maximum Laser Bias Current Normalized during the interval		
"PMP_OPT_LBIASN_MIN"	Minimum Laser Bias Current Normalized during the interval		
"PMP_OPT_LTEMP"	Current Laser Temperature		
"PMP_OPT_LTEMP_AVG"	Average Laser Temperature during the interval		
"PMP_OPT_LTEMP_MAX"	Maximum Laser Temperature during the interval		
"PMP_OPT_LTEMP_MIN"	Minimum Laser Temperature during the interval		
"PMP_PAUSEFR"	Received Pause Frames: dot3InPauseFrames~~_Rx~~ Transmitted Pause Frames: dot3OutPauseFrames~~_Tx~~	RFC ~~2665~~3635 RFC ~~2665~~3635	LR_Ethernet
"PMP_PJE"	Pointer Justification Events (counter)	G.784 G.783	
"PMP_PKTS1024~~19~~TO15183~~OCTETS~~"	Received frames: etherStatsPkts1024~~19~~to15183~~Octets_Rx~~	RFC 2819	LR_Ethernet
"PMP_PKTS1283~~TO2550~~OCTETS"	Received frames: etherStatsPkts1283~~to~~2550~~Octets_Rx~~	RFC 2819	LR_Ethernet
"PMP_PKTS2561~~TO51106~~OCTETS"	Received frames: etherStatsPkts2561~~to~~51106~~Octets_Rx~~	RFC 2819	LR_Ethernet
"PMP_PKTS51207~~TO10231~~8OCTETS"	Received frames: etherStatsPkts51207~~to~~10231~~8Octets_Rx~~	RFC 2819	LR_Ethernet
"PMP_PKTS64OCTETS"	Received frames: etherStatsPkts64Octets~~_Rx~~	RFC 2819	LR_Ethernet
"PMP_PKTS65TO1272~~OCTETS~~"	Received frames: etherStatsPkts65to1272~~Octets_Rx~~	RFC 2819	LR_Ethernet
"PMP_PLCP_DS3_BIP"	Count of BIP errors	AF-NM-0020.001	LR_ATM_NI
"PMP_PLCP_DS3_FE"	Count of Framing Errors	AF-NM-0020.001	LR_ATM_NI
"PMP_PLCP_DS3_FEBE"	Count of far-end BIP errors detected	AF-NM-0020.001	LR_ATM_NI
"PMP_PPJ"	Positive Pointer Justification (counter)		

Name	Description	Source Standard	Layer rate / object
"PMP_PREV_Tx_RATE"	The rate at the time of the last adslAtucRateChangeTrap event. It is also set at initialization to prevent a trap being sent. Rate changes less than adslAtucThresh(*)RateDown or less than adslAtucThresh(*)RateUp will not cause a trap or cause this object to change. (*) == Fast or Interleave.	RFC-2662	LR_DSL
"PMP_PSC"	Protection Switch Count (counter)	G.774.1	
"PMP_PSD"	Protection Switch Duration (counter)	G.774.1	
"PMP_PSM_BBE"	Protected Section BBE (counter)		
"PMP_PSM_ES"	Protected Section ES (counter)		
"PMP_PSM_OI"	Protected Section OI (counter)		
"PMP_PSM_SES"	Protected Section SES (counter)		
"PMP_PSM_UAS"	Protected Section UAS (counter)		
"PMP_RPL"	Current Receive Power Level (Input Signal Power)		
"PMP_RPL_AVG"	Average Receive Power Level (Input Signal Power) during the interval		
"PMP_RPL_MAX"	Maximum Receive Power Level (Input Signal Power) during the interval		
"PMP_RPL_MIN"	Minimum Receive Power Level (Input Signal Power) during the interval		
"PMP_RPL_RLTS1"	Received Level below first Threshold Seconds (counter)	ETSI EN 301 129 ITU-R F.750-4	
"PMP_RPL_RLTS2"	Received Level below second Threshold Seconds (counter)	ETSI EN 301 129 ITU-R F.750-4	
"PMP_RPLN"	Received Power Level Normalized, meter parameter = The received optical power expressed as a normalized percentage (normalization algorithms are NE-specific)		
"PMP_RPLN_AVG"	Average Received Power Level Normalized during the interval		
"PMP_RPLN_MAX"	Maximum Received Power Level Normalized during the interval		
"PMP_RPLN_MIN"	Minimum Received Power Level Normalized during the interval		

Name	Description	Source Standard	Layer rate / object
"PMP_RSQ"	Received Signal Quality Indicator, meter parameter = a measure of the signal quality measured at the facility port input, expressed as unit-less ratiometric value		
"PMP_RSQ_AVG"	Average Received Signal Quality Indicator during the interval		
"PMP_RSQ_MAX"	Maximum Received Signal Quality Indicator during the interval		
"PMP_RSQ_MIN"	Minimum Received Signal Quality Indicator during the interval		
"PMP_SBLE"	Received Symbol Errors: dot3StatsSymbolErrors ~~Rx~~	RFC ~~2665~~3635	LR_Ethernet
"PMP_SCF"	Transmitted Single Collision Frames: dot3StatsSingleCollisionFrames ~~Tx~~	RFC ~~2665~~3635	LR_Ethernet
"PMP_SDTS"	dot3StatsDeferedTransmissions Tx	RFC 1643	
"PMP_SEF_AISS"	Severely Errored Frame (SEF)/Alarm Indication Signal (AIS) Seconds	ANSI T1.231	
"PMP_SEFS"	(counter)	ANSI T1.231	
"PMP_SEP"	Severely Errored Period (counter)	G.828	
"PMP_SEPI"	SEP Intensity (counter)	G.828	
"PMP_SES"	Severely Errored Seconds (counter)	G.826 for PDH G.828 for SDH paths G.829 for SDH sections	
	Count of near-end or far-end severely errored seconds, received or transmitted	af-phy-0086.001: “imaLinkNeSevErroredSecs”, “SES-IMA”, “imaLinkFeSevErroredSecs”, “SES-IMA-FE”	LR_Fragment of IMA link CTP
"PMP_SESR"	SES Ration (counter)	G.826	
"PMP_SFRAGS"	Received Fragments: etherStatsFragments ~~Tx~~ MEF: Fragments	RFC 2819 MEF 15	LR_Ethernet
"PMP_SJABBERS"	Received Jabber frames: etherStatsJabbers ~~Tx~~	RFC 2819	LR_Ethernet
"PMP_SNR"	Signal Noise Ratio		
"PMP_SNR_AVG"	Average Signal Noise Ratio during the interval		

Name	Description	Source Standard	Layer rate / object
"PMP_SNR_MAX"	Maximum Signal Noise Ratio during the interval		
"PMP_SNR_MIN"	Minimum Signal Noise Ratio during the interval		
~~"PMP_SOPKTS"~~ Note: Covered under "PMP_FTLE" (above)	~~etherStatsOversizePkts Tx~~	~~RFC 2819~~	
"PMP_SQETST"	Received SQE Test errors: dot3StatsSQETestErrors ~~Rx~~	RFC ~~2665~~3635	LR_Ethernet
"PMP_STP_TOPCHANGES"	The total number of topology changes detected by this bridge since the management entity was last reset or initialized: dot1dStpTopChanges.	IEEE 802.1D	LR_Ethernet MFD
"PMP_STUFF"	Count of stuff events inserted in the receive or transmit direction	af-phy-0086.001: “imaLinkTxStuffs”, “Tx-Stuff-IMA”, “imaLinkRxStuffs”, “Rx-Stuff-IMA”	LR_Fragment of IMA link CTP
"PMP_SUPKTS"	Received Undersized Frames: etherStatsUndersizePkts ~~Tx~~ MEF: Undersized Frames	RFC 2819 MEF 15	LR_Ethernet
"PMP_TCM_BBE"	Tandem Connection Monitoring BBE (counter)	G.784 G.783	
"PMP_TCM_ES"	Tandem Connection Monitoring ES (counter)	G.784 G.783	
"PMP_TCM_LEVEL<n>_BBE"	Tandem Connection Monitoring Level <n> BBE (counter), <n> = 1 | 2 | 3 | 4 | 5 | 6	G.784 G.783	
"PMP_TCM_LEVEL<n>_ES"	Tandem Connection Monitoring Level <n> ES (counter), <n> = 1 | 2 | 3 | 4 | 5 | 6	G.784 G.783	
"PMP_TCM_LEVEL<n>_SES"	Tandem Connection Monitoring Level <n> SES (counter), <n> = 1 | 2 | 3 | 4 | 5 | 6	G.784 G.783	
"PMP_TCM_LEVEL<n>_UAS"	Tandem Connection Monitoring Level <n> UAS (counter), <n> = 1 | 2 | 3 | 4 | 5 | 6	G.784 G.783	
"PMP_TCM_OUT_BBE"	Tandem Connection Monitoring outgoing BBE (counter)	G.784 G.783	

Name	Description	Source Standard	Layer rate / object
"PMP_TCM_OUT_ES"	Tandem Connection Monitoring outgoing ES (counter)	G.784 G.783	
"PMP_TCM_OUT_SES"	Tandem Connection Monitoring outgoing SES (counter)	G.784 G.783	
"PMP_TCM_OUT_UAS"	Tandem Connection Monitoring outgoing UAS (counter)	G.784 G.783	
"PMP_TCM_SES"	Tandem Connection Monitoring SES (counter)	G.784 G.783	
"PMP_TCM_UAS"	Tandem Connection Monitoring UAS (counter)	G.784 G.783	
"PMP_TES"	count of time elapsed seconds, i.e. number of seconds that have elapsed since the beginning of the current PM period		LR_DSL
"PMP_TPL"	Current Transmit Power Level (Output Signal Power)		
"PMP_TPL_AVG"	Average Transmit Power Level (Output Signal Power) during the interval		
"PMP_TPL_MAX"	Maximum Transmit Power Level (Output Signal Power) during the interval		
"PMP_TPL_MIN"	Minimum Transmit Power Level (Output Signal Power) during the interval		
"PMP_TPL_TLTS1"	Transmitted Level greater than Threshold Seconds (counter)		
"PMP_TPL_TLTS2"	Transmitted Level greater than second Threshold Seconds (counter). Optional		
"PMP_TPLN"	Current Transmit Power Level (Output Signal Power)		
"PMP_TPLN_AVG"	Average Transmit Power Level (Output Signal Power) during the interval		
"PMP_TPLN_MAX"	Maximum Transmit Power Level (Output Signal Power) during the interval		
"PMP_TPLN_MIN"	Minimum Transmit Power Level (Output Signal Power) during the interval		

Name	Description	Source Standard	Layer rate / object
"PMP_UAS"	Unavailable Seconds (counter)	G.826	all layers
	Count of one second intervals where the Traffic State Machine of this IMA Group is down, near-end received or transmitted	af-phy-0086.001: “imaGroupUnavailSecs”, “GR-UAS-IMA”	LR_Fragment of IMA group FTP
	Count of near-end or far-end unavailable seconds, received or transmitted	af-phy-0086.001: “imaLinkNeUnavailSecs”, “UAS-IMA”, “imaLinkFeUnavailSecs”, “UAS-IMA-FE”	LR_Fragment of IMA link CTP
"PMP_UCASTPKTS"	Received Unicast packets: ifInUcastPkts ~~Rx~~ Transmitted Unicast packets: ifOutUcastPkts ~~Tx~~ MEF: Unicast Frames Transmitted OK ; Unicast Frames Received OK	RFC ~~1213~~2863 RFC ~~1213~~2863 MEF 15	LR_Ethernet PTP, CPTP
"PMP_UPC_NPC[<qualifier>]"	Count of cells passed by the policing function, only transmitted	AF-NM-0020.001	LR_ATM_VP LR_ATM_VC
"PMP_UPC_NPC_DIS[<qualifier>]"	Count of cells discarded by the policing function due to traffic descriptor violations	AF-NM-0020.001	LR_ATM_VP LR_ATM_VC
"PMP_UPC_NPC_TAG"	Count of cells tagged by the policing function	AF-NM-0020.001	LR_ATM_VP LR_ATM_VC
"PMP_UPROTOS"	Received packets with unknown protocol: ifInUnknownProtos ~~Rx~~ ~~ifOutUnknowProtos Tx~~	RFC ~~1213~~2863 ~~RFC 1213~~	LR_Ethernet PTP, CPTP
"PMP_UUS"	Count of receive or transmit unusable seconds at the near-end or far-end	af-phy-0086.001: “imaLinkNeTxUnusableSecs”, “Tx-UUS-IMA”, “imaLinkNeRxUnusableSecs”, “Rx-UUS-IMA”, “imaLinkFeTxUnusableSecs”, “Tx-UUS-IMA-FE”, “imaLinkFeRxUnusableSecs”, “Rx-UUS-IMA-FE”	LR_Fragment of IMA link CTP

Name	Description	Source Standard	Layer rate / object
"PMP_YELLOW_FRAME_DISCARDS<cos>"	yellowFrameDiscards (due to congestion)	MEF 15	LR_Ethernet CPTP, FP (also per COS)
"PMP_YELLOW_OCTET_DISCARDS<cos>"	yellowOctetDiscards (due to congestion)	MEF 15	LR_Ethernet CPTP, FP (also per COS)

Note: <n> = 1 | 2 | 3 | 4 | 5 | 6
<qualifier> => CLP0: = "_0"; CLP01: = "_0+1"
<cos> = [_<integer>]

Note:
It is possible, that one Termination Point is physically located in two distinct located network elements (refer to DSL modelling as an example). The Performance Monitoring Points of this TP may supervise the same performance parameter in the local and in the remote network element.
In order to differentiate these two performance parameters, a prefix "RU_" (RU for Remote Unit) has to be used in the Name of the performance parameter.
e.g. PMP_UAS → RU_PMP_UAS.

Revision History

Version	Date	Description of Change
3.0	June 2005	Conversion into new template.
3.1	October 2006	▪ Parameters listed in alphabetical order. ▪ Ethernet related parameters added.

		▪ DVB related parameters added. ▪ GFP and LCAS related parameters added. ▪ DSL related parameters added. ▪

Acknowledgements

<FirstName>	<LastName>	<Company>
Andrew	Mayer	Telcordia Technologies
Floyd	Goldstein	Lucent Technologies

How to comment on the document

Comments and requests for information must be in written form and addressed to the contact identified below:

Keith	Dorking	CIENA
Phone:	+1 678 867 5007	
Fax:	+1 678 867 5010	
e-mail:	Kdorking@ciena.com	

Please be specific, since your comments will be dealt with by the team evaluating numerous inputs and trying to produce a single text. Thus we appreciate significant specific input. We are looking for more input than wordsmith" items, however editing and structural help are greatly appreciated where better clarity is the result.