PM File Format Definition

Version 3.0

Term	Definition	Comment
\<PMFileFormat> :=	**\<TableStructureRecord> \<PMDataRecords>n**	File format defined in BNF like notation.
\<TableStructureRecord> :=	"User Label" \<SepChar> "EMS Name" \<SepChar> "EMS Native Name" \<SepChar> "ME Name" \<SepChar> "ME Native Name" \<SepChar> "PTP Name" \<SepChar> "PTP Native Name" \<SepChar> "CTP Name" \<SepChar> "CTP Native Name" \<SepChar> "Layer Rate" \<SepChar> "Granularity" \<SepChar> "Period Start Time" \<SepChar> "Monitored Time" \<SepChar> "PM Parameter" \<SepChar> "Location" \<SepChar> "Value" \<SepChar> "Unit" \<SepChar> "Status" \<SepChar> "Nr Of Periods" \<EORChars>	First record describes attribute names of the table.
\<PMDataRecords> :=	\<DescriptorRecord> [\<PMValueRecord>]n	Note: Records are terminated by carriage return
\<DescriptorRecord> :=	\<UserLabel> \<SepChar> \<EMSNameValue> \<SepChar> [\<EMSNativeNameValue>] \<SepChar> \<MENameValue> \<SepChar> [\<MENativeNameValue>] \<SepChar> \<PTPNameValue> \<SepChar> [\<PTPNativeNameValue>] \<SepChar> [\<CTPNameValue>] \<SepChar> [\<CTPNativeNameValue>] \<SepChar> \<LayerRate> \<SepChar> \<Granularity> \<EORChars>	Descriptor record for PM records
\<PMValueRecord> :=	\<SepChar>11 \<StartTime> \<SepChar> [\<MonitoredTime>] \<SepChar> \<PMParName> \<SepChar> \<Location> \<SepChar> \<Value> \<SepChar> [\<Unit>] \<SepChar> \<Status> \<SepChar> [\<NumberOfPeriods>] \<EORChars>	PM record Separators make the file .csv compatible.
\<UserLabel> :=	String	userLabel as set by the NMS operation setUserLabel() for the TP

<EMSNameValue> :=	String	value of the EMS object name according to objectNaming.pdf
<EMSNativeNameValue> :=	String	Native EMS name of EMS object This field may be empty if the native name equals the object name.
<MENameValue> :=	String	value of the ME part of the ME object name according to objectNaming.pdf
<MENativeNameValue> :=	String	Native EMS name of ME object This field may be empty if the native name equals the object name.
<PTPNameValue> :=	String	value of the PTP part of the name of the containing PTP/FTP object (if measurement is at the CTP) or of the PTP/FTP object itself (if measurement is at the PTP/FTP) according to the *PTPName* value in objectNaming.pdf
<PTPNativeNameValue> :=	String	Native EMS name of (containing) PTP/FTP object This field may be empty if the native name equals the object name.
<CTPNameValue> :=	String	CTP object name according to the *CTPName* value in objectNaming.pdf This field is empty if the measurement refers to the PTP.
<CTPNativeNameValue> :=	String	Native EMS name of CTP object This field is empty if the measurement refers to the PTP. It may be empty if the native name equals the object name.

\<LayerRate> :=	String	TPName and LayerRate define the PM measurement point (PMP). This is the string identifier of that integer according to LayerRates.pdf (e.g., "LR_VT2_and_TU12_VC12").
\<Granularity> :=	String	value according to performance::Granularity_T
\<StartTime> :=	String	value according to globaldefs::Time_T Is the period start time of the interval for which data is being reported. Time is aligned in UTC. In case of zero-suppression this identifies the start time of the first record.
\<MonitoredTime> :=	Integer	optional, default value empty field if not supported Gives the number of seconds monitored within the measurement period. Empty field means that the whole measurement period is monitored or that information is not supported at all.
\<PMParName> :=	String	value according to performance::PMParameterName_T (see PerformanceParameters.pdf)
\<Location> :=	String	value according to performance::PMLocation_T
\<Value> :=	Float	Accounts both gauge and digital values.
\<Unit> :=	String	For gauge values this is the unit of the measurement. For counter values this is empty.
\<Status> :=	"Valid" | "Incomplete" | "Invalid" | "Unavailable" | "Zero-suppressed"	• Valid - valid data for the whole interval. • Incomplete - data available for a part of the measurement interval (optional - time monitored given in the monitored time). • Invalid - data available but marked as invalid for the interval (when the EMS can not distinguish incomplete measurements from invalid measurements, "Invalid" will be used)

		• Unavailable - no data is available for a specified TP measurement point within the time period. • Zero-suppressed - optional, means record contains a number of valid measurement intervals with a zero value (number of intervals given in next field)
<NumberOfPeriods> :=	Integer	optional, empty field if not supported (means 1) Counts the number of periods with the same value and status starting with <StartTime> (e.g., used for zero suppression). A number of zero-suppressed records is represented by one record with the status field "Zero_suppressed" and the number of zero value intervals indicated by numberOfPeriods. Zero-suppressed records should have a full/complete monitored time. If not, extra zero record(s) with incomplete monitoredTime should be added.
<SepChar> :=	,	Comma separates fields of a record.
<EORChars> :=	carriage return character, followed by line feed character	Terminates records.
String :=	a printable character set	The set is delimited by double-quotes except CR (Carriage Return). A double-quote character has to be marked by an extra double-quote.
Integer :=	a digit character sequence	unsigned integer number in decimal ASCII representation
Float :=	a character sequence with digits, signs or points	float number in decimal ASCII representation

See PMExample.txt and PMExample.xls for PM file format examples in plain text and MS Excel format.