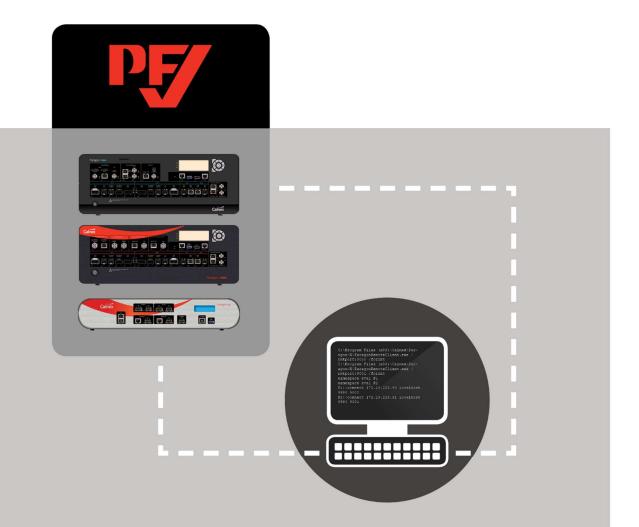


Calnex PTP Field Verifier (PFV) Remote Control Guide



For Calnex Paragon Instruments

Version 8.0

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Introduction

Calnex's family of Paragon instruments allow you to automate the testing of your devices. To support this, remote control functionality is built-in to the Paragon instruments as a standard feature. This document details the commands used to control the Calnex PTP Field Verifier (PFV) in conjunction with the Paragon instruments. The commands detailed here can be used with the Paragon-X, Paragon-t, Paragon-100G and Paragon-neo.



Note: The functionality available in the PFV is determined by the functionality of the instrument used; not all commands are available with all products.

There are additional remote control commands that can be used specifically with Paragon-100G and Paragon-neo (using the REST API) – these are not documented here, however, online documentation is available in the instrument.

Details regarding the setup required to use Paragon remote control can be found in the Paragon Remote Control Manual. Minimum PC requirements (including supported OS's) are listed in Application Note CX5006: Paragon Remote Client Application Software - Minimum PC Requirements and PC Management Recommendations document.

Overview

Paragon instruments (and associated remote control) consist of 3 main components:

- Hardware configuration and capture control
- Metrics analysis and visualization (using the CAT)
- Message field verification (using the PFV)

The PFV allows for the in-depth analysis of captured data, both on previously captured data (which does not require access to hardware) and in real-time whilst running a live capture on an instrument.

This document describes how to use remote control functionality for the PFV. Remote control for hardware configuration and capture control and for the CAT is detailed in separate documents. These documents can be accessed from the Paragon-X GUI (**Help/Remote Control**) and from the Windows **Start** menu under **Calnex/Documentation**.

Tcl and Python are supported and the commands for each are provided.

Generating Remote Control Scripts from the Script Recorder

The Paragon-X, Paragon-100G and Paragon-Neo can record user operations and convert these into scripted commands. This makes script creation very simple – record keypresses in the GUI and then use the recorded script as part of your test program. The script recorder logs commands for the CAT and PFV as well as for instrument control.



Note: The commands recorded by the Paragon-X can be used as the basis for scripts to control Paragon-100G and Paragon-neo but only a subset of these commands and associated parameters are supported since there are differences in the available functionality.

Paragon-X

To use the script recorder:

1. Start the Paragon-X GUI and select the **Script Recorder...** option from the **Tools** drop-down menu. A new dialog will appear as follows:

ecord Macro			
Script Language	Td	•	Start
View			Cancel

- 2. Select the scripting language that you are using and then click **Start**. A splash screen and recording window will then be displayed.
- 3. Configure the Paragon and perform the operations you would like scripted.
- 4. When you have completed your chosen operations, select **View Recorded Script** from the **Tools** drop-down menu.
- 5. You can now save the script and run it when required. Alternatively, cut and paste the script snippet into your test program.
- 6. From the Tools drop-down you can now de-select the Script Recorder... option to stop recording.

Using Remote Control from Tcl

A Tcl module is provided for remote control functionality. This module has been verified using ActiveState Tcl, version 8.5. It is recommended that this is the version you use.

The Tcl module provides a simple bridge between Tcl and the network interface protocol used to talk to the Paragon application.

Paragon-X: Location of the Tcl Module

The Paragon Tcl module (paragon.tcl) is located under the **My Documents** folder. In Windows 10 for instance, the location is typically:

C:\Users\<UserName>\Documents\Calnex\Paragon-X\RemoteControl\Tcl

For backward compatibility, the Tcl module is also located in the same directory as the Paragon-X software; this is normally one of:

```
C:\Program Files\Calnex\Paragon-X\
or
C:\Program Files (x86)\Calnex\Paragon-X\
```

Paragon-100G and Paragon-Neo: Location of the Tcl Module

To use the commands listed in this document with Paragon-100G or Paragon-neo, you should use the paragon.tcl file distributed with Paragon-X (see above).

Using the Tcl Module

The Tcl library must be referenced using the Tcl *source* command to read this file prior to running Tcl commands or scripting e.g.

source c:/Program\ Files/Calnex/Paragon-X/paragon.tcl

Running Commands or Scripts

To run a Tcl command from the command line:

- 1. Start a Tcl shell e.g. tclsh
- 2. In the shell window, type: source <path>/paragon.tcl Where <path> is the path to the paragon.tcl file as detailed above.
- 3. Type your Tcl command e.g. connect... Note that you must connect to Paragon before executing other commands (see Connecting to the Instrument).

To run a Tcl script:

- 1. Start a Tcl shell e.g. tclsh
- 2. In the shell window, type: source <path>/paragon.tcl
 Where <path> is the path to the paragon.tcl file as detailed above.
 Alternatively, include the source <path>/paragon.tcl command in your script.
- 3. In the shell window, type source followed by the name of your script.

Using Remote Control from Python

A Python module is provided for remote control functionality. This module has been verified using Python 3.4. It is recommended that the Python interpreter installed is the same version or newer otherwise Python functionality may not work correctly. The Python module provides a simple bridge between Python and the network interface protocol used to talk to the Paragon application.

Paragon-X: Location of the Python Module

The Paragon Python module (paragon.py) is located under the **My Documents** folder. In Windows 7 for instance, the location is typically:

C:\Users\<UserName>\Documents\Calnex\Paragon-X\RemoteControl\Python

In this folder, you will also find two example test scripts (test_simple.py and test replay.py) that use this module.

Paragon-100G and Paragon-Neo: Location of the Python Module

To use the commands listed in this document with Paragon-100G or Paragon-neo, you should use the paragon.py file distributed with Paragon-X (see above).

Using the Python Module

The Python module must be imported before it can be used i.e.

```
import sys
sys.path.append(r'C:\Users\<UserName>\Documents\Calnex\Paragon-
X\RemoteControl\Python')
import paragon as p
```

The path may need to be adjusted depending on the location of the module.

Running Commands or Scripts

To run a Python command from the command line:

- 1. Start a Python shell: Python
- 2. In the shell window, type: import sys
- 3. Type the sys.path.append statement as detailed above.
- 4. Type import paragon as p
- 5. Type your python command e.g. p.connect (...). Note that you must connect to Paragon before executing other commands (see Connecting to the Instrument).

To run a Python script:

- 1. Start a DOS command window
- 2. If you have not previously configured your path, then type the sys.path.append statement as described above.
- 3. Type import paragon as p. Alternatively, you can include the import statement in your script.
- 4. At the prompt navigate to the directory where your script is stored e.g. C:\Users\<UserName>\Documents\Calnex\RemoteControl\Python
- Type the name of the script including the .py filename extension e.g. Test_simple.py

Using Remote Control from Perl

Perl is no longer supported.

Connecting to the Instrument

To control a Paragon remotely, you first have to connect to it. For Paragon-X and Paragon-t, the Paragon GUI must be running on the controlling PC before any connection can be established. See the Paragon-X or Paragon-t Remote Control Manual for details.

For Paragon-X and Paragon-t, remote control for the CAT is also managed through the Paragon GUI. The GUI must be running on the controlling PC before any connection to the CAT can be established. For Paragon-100G and Paragon-neo, the instrument simply needs to be powered on.

Filename specification within scripts/commands

Commands which take filenames must use a directory separator. The Windows directory separator $\langle '$ must be written as $\langle ' \rangle$ and spaces must be written as $\langle \rangle'$ e.g.

recall "c:/Test\ Documents/sync-ethernet.cst".

Error reporting

Errors are signalled using the usual 'error' call for the remote control interface being used i.e. Tcl or Python.

Often a command will have a dependency on an accompanying configuration or parameter; this will be reported in the error message.

Firewall Settings

Remote control for Paragon-X operates using a TCP socket connection to a specified port (the default is port 9000). Any firewall must therefore be configured to allow connections on the specified TCP port.

Extending Paragon-X Scripts to Control Paragon-100G and Paragon-neo

Some of the functionality in Paragon-100G and Paragon-neo may not be available using Paragon-X style commands. In this case, the RESTful API in Paragon-100G and Paragon-neo can be used in conjunction with the commands in this document.

For more details on the RESTful API go to the **Help** page on your Paragon-100G or Paragon-neo instrument.

Note: The use of the RESTful API may require you to install one or more additional packages for the script language you are using:

ActiveTcl: Requires the "REST" package. This can be installed using: teacup update

Paragon-100G and Paragon-neo Script Recorder

Paragon 100G and Paragon-neo web applications can record user operations and convert these into scripted (RESTful) commands. This makes script creation very simple – record actions in the browser and then use the recorded script as part of your test program.

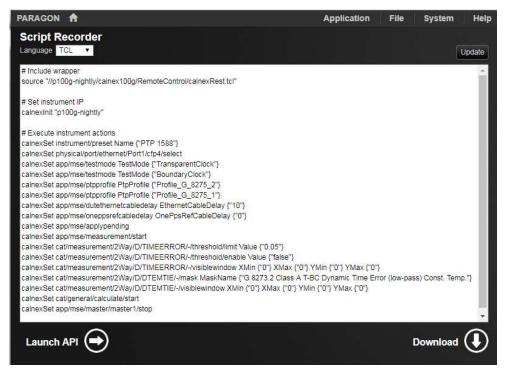
To use script recorder, open a web browser and enter the URL for your instrument. Then select **Application** from the menu bar:

Application	File	System	Help
		Status	
		Port 1 Link	

To start recording operations, select **Start** from the **Script Recorder** panel in the bottom left-hand corner of the browser window:



Configure the Paragon and perform the operations you want scripted. When you have completed your chosen operations, click **Script**. You will now see a new page with your recorded script:



The default script language is Tcl. However, you can change this to Python from the **Language** pulldown. This is possible at any time even after the script has been recorded.

Clicking **Update** in the top-right hand coner of the recorded script window will update the script with any actions that have been recorded since the script window was last refreshed.

Click **Stop** on the main instrument page under **Script Recorder** to stop recording. The recorded script can be copied from the script window or downloaded to your local PC.

Using the RESTful API

To use the Paragon-100G or Paragon-neo RESTful API in conjunction with the commands in this document, the appropriate calnexRest wrapper for your script language must be referenced by your script. Two wrappers are provided: calnexRest.tcl (Tcl) and calnexRest.py (Python).

The wrappers are located in //<instrumentIpAddress>/calnex100G/RemoteControl/. The wrapper must be referenced before it can be used. This is done in the same way as for the Paragon-X wrappers as described in *Using the Tcl Module and Using the Python Module* above. For example:

Tcl:

```
source
"//<instrumentIpAddress>/calnex100G/RemoteControl/calnexRest.tcl"
```

Python:

```
import sys
sys.path.append(r'//<instrumentIpAddress>/calnex100G/RemoteControl')
from calnexRest import calnexInit, calnexGet, calnexSet,
calnexCreate, calnexDel, calnexGetVal
```

The main functions provided by the wrappers are shown below. Any equivalent Paragon-X command is shown in brackets:

- calnexInit: must be called before any other function. The parameter is the IP address of the instrument.
- calnexSet (paragonset)
- calnexGetVal (paragonget): returns the value of a single specified setting.
- calnexGet: can return a single value or a set of values.

For more details on these commands, please consult the documentation on the **Help** page of your instrument.



Note: The wrapper functions and documentation for Paragon-100G and Paragon-neo have been revised. The information in this document is relevant only for Paragon-100G versions later than 06.03 and Paragon-neo versions later than 00.05.

Command Reference Concepts

The following concepts are common themes throughout this Remote Control Guide. It is important to be aware of the level of control each command has, for example, modifying one parameter may affect multiple measurement parameters.

PFV Concepts

The PFV can load:

- Timing capture files from Paragon-X, Paragon-100G and Paragon-neo.
- CCSA and G.8271 ToD capture files from Paragon-X.
- pcap files containing PTP messaging.

The contents of each of the above files types can be analyzed against a set of rules. A number of predefined rules are supplied with the PFV; alternatively, you can define your own. Verification against rules can only be performed in the following circumstances:

- The Paragon instrument used to capture the data has the appropriate option.
- The PC being used for analysis is licensed.

If no option/licence is detected, the the PFV will load the file and display its contents but no rules checking will be possible.

The commands in this section describe the commands used to control the PFV settings and behaviour.

Location of Rules Files

Calnex provides a set of pre-defined rules files. For the PC-based PFV, these are installed by default in: C:\Program Files (x86)\Calnex\PFV\Rules\

In addition, users may create their own rules files. For the PC-based PFV, user-defined rules files should be stored in: C:\Users\<User>\Documents\Calnex\PFV\Rules\

For P100G, user-defined rules files should be stored in: \\<P100G>\Calnex100G\PFV\Rules

The application will populate the rules pull-down from all xml files in these folders. When selecting a rules file using remote control (i.e. using **PFV Rules PTP <filename>** or **PFV Rules ToD <filename>**), only the name of the file (as shown in the UI) is required – both the folders mentioned above will be searched for the matching file name.

PTP Field Names

A number of the PFV remote commands take a PTP field name as a parameter. The field names used by remote control are the same as in the rules files and the PFV UI. The PTP field names are:

Message	All Except	Announce Only	Management Only
Туре	Announce/Management		
Field Names	alternateTimeTransmitterFlag	curUtcOffset	MgtTargetPortIdentity
	decodedcorrectionfieldps	gmClkAcc	MgtStartingBoundaryHops
	correctionField	gmClkClass	MgtBoundaryHops
	currentUtcOffsetValid	gmClockIdentity	MgtReserved0
	domainNumber	gmClkOslv	MgtActionField
	frequencyTraceable	gmPrior1	MgtReserved1
	leap59	gmPrior2	
	leap61	gmStepsRemoved	
	logMessageInterval	gmTimeSource	
	ptpTimescale		
	sourcePortIdentity OR		
	sourceClockID		
	sourcePortNo		
	timeTraceable		
	twoStepFlag		
	unicastFlag		

ToD Field Names

The ToD field names used by remote control are the same as in the rules files and the PFV UI. The G.8271 ToD field names are:

Message Type	Time Event	Time Announce	GNSS Status
Field Names	Length	Length	Length
	UTCTime	versionPTP	TimeSource
	Reserved0	domainNumber	Status
	Flags	FlagFleId	Alarms
	CurrentUTCOffset	sourceClockIdentity	Reserved0
	Reserved1	sourcePortNumber	FCS
	FCS	grandmasterPriority1	
		grandmasterPriority2	
		clockClass	
		clockAccuracy	
		offsetScaledLogVariance	
		grandmasterClockIdentity	
		stepsRemoved	
		timeSource	
		Reserved0	
		FCS	

The CCSA ToD field names are:

Message Type	Time Event	Time Information
Field Names	Length	Length
	UTCTime	TimeSourceType
	Reserved0	TypeSourceStatus
	Week	Alarms
	LeapS	Reserved0
	PPSStatus	Reserved1
	ТАсс	Reserved2
	Reserved1	Reserved3
	Reserved2	Reserved4
	Reserved3	FCS
	FCS	

TLV Field Names

TLV field names used by remote control are defined in the table below.

TLV	TLV Name	TLV Fields
Unicast Sync	TlvUnicastReqSync	TlvUnicastReqSync_Type
Request		TlvUnicastReqSync_Length
Signaling TLV		TlvUnicastReqSync_MsgType
		TlvUnicastReqSync_Reserved0
		TlvUnicastReqSync_LogInterMsgPeriod
		TlvUnicastReqSync_DurationField
Unicast Sync	TlvUnicastGrantSync	TlvUnicastGrantSync_Type
Grant Signaling		TlvUnicastGrantSync_Length
TLV		TlvUnicastGrantSync_MsgType
		TlvUnicastGrantSync_Reserved0
		TlvUnicastGrantSync_LogInterMsgPeriod
		TlvUnicastGrantSync_DurationField
		TlvUnicastGrantSync_Reserved1
		TlvUnicastGrantSync_Reserved2
		TlvUnicastGrantSync_RenewalInvited
Unicast	TlvUnicastReqAnnounce	TlvUnicastReqAnnounce_Type
Announce		TlvUnicastReqAnnounce_Length
Request		TlvUnicastReqAnnounce_MsgType
Signaling TLV		TlvUnicastReqAnnounce_Reserved0
		TlvUnicastReqAnnounce_LogInterMsgPeriod
		TlvUnicastReqAnnounce_DurationField
Unicast	TlvUnicastGrantAnnounce	TlvUnicastGrantAnnounce_Type
Announce Grant		TlvUnicastGrantAnnounce_Length
Signaling TLV		TlvUnicastGrantAnnounce_MsgType
		TlvUnicastGrantAnnounce_Reserved0
		TlvUnicastGrantAnnounce_LogInterMsgPeriod
		TlvUnicastGrantAnnounce_DurationField
		TlvUnicastGrantAnnounce_Reserved1
		TlvUnicastGrantAnnounce_Reserved2
		TlvUnicastGrantAnnounce_RenewalInvited
Unicast Del	TlvUnicastReqDelResp	TlvUnicastReqDelResp_Type
Resp Request		TlvUnicastReqDelResp_Length
Signaling TLV		TlvUnicastReqDelResp_MsgType
		TlvUnicastReqDelResp_Reserved0
		TlvUnicastReqDelResp_LogInterMsgPeriod
		TlvUnicastReqDelResp_DurationField
Unicast Del	TlvUnicastGrantDelResp	TlvUnicastGrantDelResp_Type
Resp Grant		TlvUnicastGrantDelResp_Length
Signaling TLV		TlvUnicastGrantDelResp_MsgType
		TlvUnicastGrantDelResp_Reserved0
		TlvUnicastGrantDelResp_LogInterMsgPeriod
		TlvUnicastGrantDelResp_DurationField
		TlvUnicastGrantDelResp_Reserved1
		TlvUnicastGrantDelResp_Reserved2
		TlvUnicastGrantDelResp_RenewalInvited

		· · · · · · · · · · · · · · · · · · ·
Unicast PDel	TlvUnicastReqPDelResp	TlvUnicastReqPDelResp_Type
Resp Request		TlvUnicastReqPDelResp_Length
Signaling TLV		TlvUnicastReqPDelResp_MsgType
		TlvUnicastReqPDelResp_Reserved0
		TlvUnicastReqPDelResp_LogInterMsgPeriod
		TlvUnicastReqPDelResp_DurationField
Unicast PDel	TlvUnicastGrantPDelResp	TlvUnicastGrantPDelResp_Type
Resp Grant		TlvUnicastGrantPDelResp_Length
Signaling TLV		TlvUnicastGrantPDelResp_MsgType
		TlvUnicastGrantPDelResp_Reserved0
		TlvUnicastGrantPDelResp LogInterMsgPeriod
		TlvUnicastGrantPDelResp_DurationField
		TlvUnicastGrantPDelResp Reserved1
		TlvUnicastGrantPDelResp_Reserved2
		TlvUnicastGrantPDelResp_RenewalInvited
CCSA / CMCC	TlvCmcc5GHighPrecision	TlvType
5G High		TivLength
Precision TLV		TlvOrganizationId
		TlvOrganizationSubType
		TlvCmcc5GAccuracyLevel1
		TlvCmcc5GStepsRemovedLevel1
		TlvCmcc5GAccuracyLevel2
		TlvCmcc5GStepsRemovedLevel2
		TlvCmcc5GAccuracyLevel3
		TlvCmcc5GStepsRemovedLevel3
IEEE C37.238-	TlvC37238_2011	TlvC37238_2011_Type
2011 TLV		TlvC37238_2011_Length
		TlvC37238_2011_OrgId
		TlvC37238_2011_OrgSubType
		TlvC37238_2011_GrandmasterId
		TlvC37238_2011_GrandmasterTimeInaccuracy
		TlvC37238_2011_NetworkTimeInaccuracy
		TlvC37238_2011_Reserved
IEEE C37.238-	TlvC37238_2017	TlvC37238_2017_Type
2017 TLV		TlvC37238_2017_Length
		TlvC37238_2017_OrgId
		TlvC37238_2017_OrgSubType
		TlvC37238_2017_GrandmasterId
		TlvC37238_2017_Reserved1
		TlvC37238_2017_TotalTimeInaccuracy
		TlvC37238_2017_Reserved2
IEEE 1588-2008	TlvAlternateTimeOffsetIndi	TlvATOI_Type
Alternate Time	cator	TlvATOI_Length
Offset Indicator		TlvATOI_KeyField
TLV		TlvATOI_CurrentOffset
		TlvATOI_JumpSeconds
		TlvATOI_TimeOfNextJump
		TlvATOI_DisplayName
		TIVATOI Pad
IEEE 802.1AS	Tlv8021ASFollowUpInfo	Tlv8021ASFollowUp_Type
Followup		Tlv8021ASFollowUp_Length
Information TLV		Tlv8021ASFollowUp OrgId
	1	

	l	
		Tlv8021ASFollowUp_OrgSubType
		Tlv8021ASFollowUp_CSRO
		Tlv8021ASFollowUp_GmTimeBaseInd
		Tlv8021ASFollowUp_LastGmPhaseChange
		Tlv8021ASFollowUp_ScaledLastGmFreqChange
IEEE 802.1AS	Tlv8021ASMsgIntvlReq	Tlv8021ASMsgIntvlReq_Type
Message		Tlv8021ASMsgIntvlReq_Length
Interval Request		Tlv8021ASMsgIntvlReq_OrgId
TLV		Tlv8021ASMsgIntvlReq_OrgSubType
		Tlv8021ASMsgIntvlReq_LogLinkDelayIntvl
		Tlv8021ASMsgIntvlReq_LogTimeSyncIntvl
		Tlv8021ASMsgIntvlReq_LogAnnounceIntvl
		Tlv8021ASMsgIntvlReq_Flags
		Tlv8021ASMsgIntvlReq_Reserved0
IEEE 802.1AS	Tlv8021ASGptpCapable	Tlv8021ASGptpCapable_Type
gPTP Capable		Tlv8021ASGptpCapable_Length
TLV		Tlv8021ASGptpCapable_OrgId
		Tlv8021ASGptpCapable OrgSubType
		Tiv8021ASGptpCapable_LogGptpCapMsgIntvl
		Tiv8021ASGptpCapable_Flags
		Tlv8021ASGptpCapable Reserved0
IEEE 802.1AS	Tlv8021ASGptpCapableMsg	Tlv8021ASGptpCapMsgIntvIReq_Type
gPTP Capable	IntvlReq	Tiv8021ASGptpCapMsgIntvIReq_Length
Message	Intvinceq	Tiv8021ASGptpCapMsgIntvIReq_OrgId
Interval Request		Tlv8021ASGptpCapMsgIntvlReq_OrgSubType
TLV		Tlv8021ASGptpCapMsgIntvlReq_LogGptpCapMsgIntvl
ILV		Tlv8021ASGptpCapMsgIntvlReq_Reserved0
IEEE 1588-2008	TlvPathTrace	TlvPathTrace_Type
Path Trace TLV		TlvPathTrace_Length
		TlvPathTrace_PathSequence
IEEE 1588-2019	TlvPortCommAvail	TlvPortCommAvailMask
Port		TlvPortCommAvail_Type
Communication		TlvPortCommAvail_Length
Availability TLV		TlvPortCommAvail _Sync
		TlvPortCommAvail _ DelayResp
		TlvPortCommAvail_Reserved1
IEEE 1588-2019	TlvProtocolAddress	 TIvProtocolAddressMask
Protocol		TIvProtocolAddress Type
Address TLV		TivProtocolAddress_Length
		TivProtocolAddress_Address
SMPTE	TlvSmpteSm_2015	TlvSmpteSm 2015 Type
Synchronization		TivSmpteSm 2015 Length
Metadata 2015		TivSmpteSm 2015 Orgld
		TivSmpteSm_2015_OrgSubType
		TivSmpteSm 2015 DefaultSystemFrameRate
		TlvSmpteSm 2015 DefaultSystemFrameRateNumerator
		TlvSmpteSm_2015_DefaultSystemFrameRateDenominator
		TlvSmpteSm_2015_TimeTransmitterLockingStatus
		TivSmpteSm_2015_TimeAddressFlags
		TlvSmpteSm_2015_Taf_DropFrameFlag
		TivSmpteSm_2015_Taf_ColorFrameIdFlag
		TlvSmpteSm 2015 Taf ReservedBit2

TlvSmpteSm_2015_Taf_ReservedBit3 TlvSmpteSm_2015_Taf_ReservedBit4 TlvSmpteSm_2015_Taf_ReservedBit5 TlvSmpteSm_2015_Taf_ReservedBit6 TlvSmpteSm_2015_Taf_ReservedBit7
TlvSmpteSm_2015_Taf_ReservedBit5 TlvSmpteSm_2015_Taf_ReservedBit6
TlvSmpteSm_2015_Taf_ReservedBit6
TlvSmpteSm 2015 Taf ReservedBit7
TlvSmpteSm_2015_CurrentLocalOffset
TlvSmpteSm_2015_JumpSeconds
TlvSmpteSm_2015_TimeOfNextJump
TlvSmpteSm_2015_TimeOfNextJam
TlvSmpteSm_2015_TimeOfPreviousJam
TlvSmpteSm_2015_PreviousJamLocalOffset
TlvSmpteSm_2015_DaylightSaving
TlvSmpteSm_2015_Dsf_Current
TlvSmpteSm_2015_Dsf_Next
TlvSmpteSm_2015_Dsf_Previous
TlvSmpteSm_2015_Dsf_ReservedBit3
TlvSmpteSm_2015_Dsf_ReservedBit4
TlvSmpteSm_2015_Dsf_ReservedBit5
TlvSmpteSm_2015_Dsf_ReservedBit6
TlvSmpteSm_2015_Dsf_ReservedBit7
TlvSmpteSm_2015_LeapSecondJump
TlvSmpteSm_2015_Lsj_ReasonForChange
TlvSmpteSm_2015_Lsj_ReservedBit1
TlvSmpteSm_2015_Lsj_ReservedBit2
TlvSmpteSm_2015_Lsj_ReservedBit3
TlvSmpteSm_2015_Lsj_ReservedBit4
TlvSmpteSm_2015_Lsj_ReservedBit5
TlvSmpteSm_2015_Lsj_ReservedBit6
TlvSmpteSm_2015_Lsj_ReservedBit7

UDP Field Names

The UDP Header fields are:

UdpCheckSum

Settings

Individual settings may be set or queried using remote control commands. Most settings can be set and queried individually, but some may only be queried. The general syntax for commands is as follows:

To set a setting:

paragonset <parameter name> <parameter value> [<parameter value>]

To query a setting:

paragonget <parameter name>

Also, note that:

- A query will return one or more <parameter value>s.
- The parameters taken by these commands are described in more detail later in this document. cparameter name> is made up of a space separated list.
- The *<parameter value>* type depends on the command. It may be a number, a Boolean, a string or an enumerated value. String parameter values containing spaces must be quoted.
- Certain commands take an index as their parameter. Index parameters are shown as <index>.
- The index value should be suffixed with a '#' character. If the index is a string parameter containing spaces, it must be quoted, including the '#' suffix.

Command Reference Format

In the command reference below, most commands are detailed independently of the scripting language used. Each scripting language has a different calling mechanism but the CAT commands are the same. In addition, the majority of commands can be set (paragonset) and read (paragonget). Where appropriate, the set and get functions are detailed separately in the command reference.

Command	PFV PTP Rules <filename></filename>
Tcl	paragonset PFV PTP Rules "G.8275.1_Phase_Profile.xml" paragonget PFV PTP Rules
Python	<pre>paragonset("PFV PTP Rules", "G.8275.1_Phase_Profile.xml"); paragonget("PFV PTP Rules");</pre>
Command	PFV FieldErrorCount <sequenceid></sequenceid>
Tcl	paragonget PFV PTP FieldErrorCount sequenceId
Python	<pre>paragonget("PFV PTP FieldErrorCount sequenceId");</pre>

Examples of set and get functions in each supported scripting language are shown below:

Special Commands

Some commands do not use the paragonset and paragonget methods. These commands are listed in Control Commands below.

Command Reference – Contents

connect	20
disconnect	20
PFV OpenFile	21
PFV Rules (Deprecated)	21
PFV PTP Rules	
PFV ToD Rules	22
PFV Show	
PFV GenerateReport <filename></filename>	23
PFV PassResult (Deprecated)	23
PFV PTP PassResult	
PFV ToD PassResult	24
PFV PassRate (Deprecated)	24
PFV PTP PassRate	24
PFV ToD PassRate	24
PFV FieldErrorCount <fieldname> (Deprecated)</fieldname>	24
PFV PTP FieldErrorCount <fieldname></fieldname>	
PFV ToD FieldErrorCount <messagetype> <fieldname></fieldname></messagetype>	25
PFV PTP TLVFieldErrorCount <tlvname> <tlvfield></tlvfield></tlvname>	
PFV Transitions <messagetype> <fieldname></fieldname></messagetype>	25
PFV PTP Transitions <messagetype> <fieldname></fieldname></messagetype>	
PFV PTP HSRTransitions <messagetype> <fieldname></fieldname></messagetype>	
PFV PTP PRPTransitions <messagetype> <fieldname></fieldname></messagetype>	
PFV PTP TLVTransitions <messagetype> <tlvname> <tlvfield></tlvfield></tlvname></messagetype>	
PFV ToD G8271Transitions <messagetype> <fieldname></fieldname></messagetype>	
PFV ToD Transitions <fieldname></fieldname>	
PFV PTP TwoTimeTransmitters Transitions <timetransmitterid> <messagetype> <fieldname></fieldname></messagetype></timetransmitterid>	
PFV PTP TwoTimeTransmitters TLVTransitions <timetransmitterid> <messagetype> <tlvname< td=""><td></td></tlvname<></messagetype></timetransmitterid>	
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PFV PTP TwoMasters HSRTransitions <masterid> <messagetype> <fieldname></fieldname></messagetype></masterid>	
PFV PTP TwoMasters PRPTransitions <masterid> <messagetype> <fieldname></fieldname></messagetype></masterid>	
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Control Commands

The commands in this section control the basic operation of the Paragon/PFV remote control. These commands are the baseline for further operations.

Note: Several commands in this section do not use the paragonset / paragonget mechanism. The command format for these commands is listed explicitly for each supported scripting language.

connect

Description	Makes a connecti	on to the specified GUI and instrument.
Tcl	connect <instripaddress> [<guihostname> [<instrport> [<rmtport>]]]</rmtport></instrport></guihostname></instripaddress>	
Python	p.connect(" <instr< th=""><th>lpAddress> [<guihostname> [<rmtport> [<instrport>]]]")</instrport></rmtport></guihostname></th></instr<>	lpAddress> [<guihostname> [<rmtport> [<instrport>]]]")</instrport></rmtport></guihostname>
Parameters	<instrlpaddress></instrlpaddress>	Paragon-X: The IP address of the Paragon instrument. Paragon-100G / Paragon-neo: Must be "localhost".
	<guihostname></guihostname>	Paragon-X : This is an optional parameter, which specifies the IP address of the PC that is hosting the GUI; if this parameter is not specified then a connection to the local machine is assumed.
	<instrport></instrport>	Paragon-100G / Paragon-neo : The IP address of the instrument. This is an optional parameter, which specifies the TCP Port on the Paragon instrument; if this parameter is not specified then port 9990 is assumed.
	<rmtport></rmtport>	This is an optional parameter, which specifies the remote- control TCP Port used by the Paragon client application; if this parameter is not specified then port 9000 is assumed.
Result		l only report on failure if an error occurs. I block until a connection is made.

disconnect

Description	Disconnnects the currently connected GUI and instrument.
Tcl	disconnect
Python	p.disconnect()
Result	Return with text displaying status of connection.

PFV Commands

The commands in this section are specific to the PFV application.

PFV OpenFile

		Set
Description	Loads a file into	the PFV and analyzes it.
Command	PFV OpenFile <	fileName>
Parameters	<filename></filename>	The full path to a capture file.

PFV Rules (Deprecated)

This command is deprecated and should be replaced with PFV PTP Rules. See PTP PVF Rules for description.

PFV PTP Rules

	Set	
Description	Changes the rules file used for analysis of PTP cptures. If there was a capture file	
	already loaded, it will be re-analyzed.	
Command	PFV PTP Rules <rulesname></rulesname>	
Parameters	<i><rulesname></rulesname></i> The name of a rules file. Note, the path to the file should not be	
	included, only its name, as displayed in the PFV.	
Pre-requisites	The data file must have been captured on an instrument with an appropriate option or	
	the PC running PFV must be licensed.	
Result	If no option or license is detected, then an error will be generated.	
	If the rules file cannot be found, then an error will be generated.	
Get		
Description	Returns the name of currently used rules file.	
Command	PFV PTP Rules	
Pre-requisites	See above.	
Result	Returns the name of currently used rules file or an empty string if no file has been selected.	

PFV ToD Rules

	Set	
Description	Changes the rules file used for analysis of ToD cptures. If there was a ToD capture file	
	already loaded, it will be re-analyzed.	
Command	PFV ToD Rules <rulesname></rulesname>	
Parameters	<pre><rulesname> The name of a rules file. Note, the path to the file should not be</rulesname></pre>	
	included, only its name, as displayed in the PFV.	
Pre-requisites	The data file must have been captured on an instrument with an appropriate option or	
	the PC running PFV must be licensed.	
Result	If no option or license is detected, then an error will be generated.	
	If the rules file cannot be found, then an error will be generated.	
Get		
Description	Returns the name of currently used rules file.	
Command	PFV ToD Rules	
Pre-requisites	See above.	
Result	Returns the name of currently used rules file or an empty string if no file has been	
	selected.	

PFV Show

		Set
Description	Launches the	PFV application.
Command	PFV Show <vi< th=""><th>sible></th></vi<>	sible>
Parameters	<visible></visible>	Set to TRUE to launch the PFV.

PFV GenerateReport <filename>

	Set
Description	Generates a report in either pdf or html formats based on the PFV analysis results. The report is automatically saved in <documents>\Calnex\PFV\Reports.</documents>
Command	PFV GenerateReport <filename></filename>
Parameters	<i><filename></filename></i> The path and filename of the report to be generated. The extension should be either ".pdf" or ".html". This is an optional parameter. If omitted, default file name and path will be used.
	You can include a page size as part of the filename when generating a pdf report. For example " <i>C:/Directory/report.pdf</i> <i>(Letter)</i> " will generate a report named "report.pdf" with a 'Letter' page size of 215.9mm by 279.4mm.
	Sizes A4 and Letter are supported, A4 will be used if no size is specified.
Pre-requisites	The data file must have been captured on an instrument with an appropriate option or the PC running PFV must be licensed. A capture file must be already loaded by the PFV and a rules file selected.

PFV PassResult (Deprecated)

This command is deprecated and should be replaced with PFV PTP PassResult. See PTP PFV PassResult for description.

PFV PTP PassResult

	Get
Description	Returns the overall pass/fail result of the PFV analysis of the currently-loaded PTP capture file.
Command	PFV PTP PassResult
Pre-requisites	A PTP file must be loaded and have been analyzed by the PFV.
Result	Returns the result of the PFV analysis. If TRUE, the analysis passed all rules checks; if FALSE, then at least one rules check has failed.

PFV ToD PassResult

	Get
Description	Returns the overall pass/fail result of the PFV analysis of the currently-loaded ToD capture file.
Command	PFV ToD PassResult
Pre-requisites	A ToD file must be loaded and have been analyzed by the PFV.
Result	Returns the result of the PFV analysis. If TRUE, the analysis passed all rules checks; if FALSE, then at least one rules check has failed.

PFV PassRate (Deprecated)

This command is deprecated and should be replaced with PFV PTP PassRate. See PFV PTP PassRate for description.

PFV PTP PassRate

	Get
Description	Returns the percentage of packets that have passed the PFV analysis for the currently-
	loaded PTP capture.
Command	PFV PTP PassRate
Pre-requisites	A PTP file must be loaded and have been analyzed by the PFV.
Result	Returns the percentage of packets that have passed the analysis.

PFV ToD PassRate

	Get
Description	Returns the percentage of packets that have passed the PFV analysis for the currently-
	loaded ToD capture.
Command	PFV ToD PassRate
Pre-requisites	A ToD file must be loaded and have been analyzed by the PFV.
Result	Returns the percentage of packets that have passed the analysis.

PFV FieldErrorCount <fieldName> (Deprecated)

This command is deprecated and should be replaced with PFV PTP FieldErrorCount. See PFV PTP FieldErrorCountfor description.

PFV PTP FieldErrorCount <fieldName>

Get		
Description	Returns the number of failures for the specified message field.	
Command	PFV PTP FieldErrorCount <fieldname></fieldname>	
Parameters	<fieldname></fieldname>	The message field name. The field name is the same as is used in
		the PFV rules files and in the PFV UI. See the PFV Getting Started
		Guide for a complete list of field names.
Pre-requisites	A PTP file must be loaded and have been analyzed by the PFV.	
Result	Returns an integer value equal to the number of detected failures in the specified field.	

PFV ToD FieldErrorCount <messageType> <fieldName>

Get			
Description	Returns the number of failures for the specified message field.		
Command	PFV FieldErrorCount <messagetype> <fieldname></fieldname></messagetype>		
Parameters	<messagetype>The ToD message type. This must be one of the following: CcsaTimeInformation G8271TimeEventCcsaTimeEvent G8271TimeAnnounceCcsaTimeEvent G8271GnssStatus<fieldname>The message field name. The field name is the same as is used in the PFV rules files and in the PFV UI. See the PFV Getting Started Guide for a complete list of field names.</fieldname></messagetype>	sed in	
Pre-requisites	A file must be loaded and have been analyzed by the PFV.		
Result	Returns an integer value equal to the number of detected failures in the specified field.		Ι.

PFV PTP TLVFieldErrorCount <tlvName> <tlvField>

Get		
Description	Returns the number of failures for the specified TLV field.	
Command	PFV PTP TLVFieldErrorCount <tlvname> <tlvfield></tlvfield></tlvname>	
Parameters	<tlvname></tlvname>	The TLV being queried. The name must come from the "TLV Name" in the table in section "TLV Field Names".
	<tlvfield></tlvfield>	The TLV field name. Valid field names can be found in the table in section "TLV Field Names".
Pre-requisites	A PTP file must be loaded and have been analyzed by the PFV.	
Result	Returns an integer value equal to the number of detected failures in the specified field.	

PFV Transitions <messageType> <fieldName>

This command is deprecated and should be replaced with PFV PTP Transitions. See PFV PTP Transitions for description.

PFV PTP Transitions <messageType> <fieldName>

	Get		
Description	Returns a set of comma-separated values detailing how a field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.		
Command	PFV PTP Transitions <messagetype> <fieldname></fieldname></messagetype>		
Parameters	<pre><messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP</messagetype></pre>		
	<fieldname> The message field name. The field names are listed in PTP Field Names" above.</fieldname>		
Pre-requisites	A file must be loaded and have been analyzed by the PFV.		
Result	Returns a set of comma-separated values. Example output: Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2		
	The above example would mean that the field value was 6 from the 2 nd to 68 th packet or from 0.02s to 2.2s.		

PFV PTP HSRTransitions <messageType> <fieldName>

	Get		
Description	Returns a set of comma-separated values detailing how an HSR (High availability Seamless Redundancy protocol) field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.		
Command	PFV PTP HSRTransitions <messagetype> <fieldname></fieldname></messagetype>		
Parameters	<messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP <fieldname> The message field name. This must be one of the following: NetId LanId</fieldname></messagetype>		
Pre-requisites	A file must be loaded and have been analyzed by the PFV.		
Result	Returns a set of comma-separated values. Example output: Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2 The above example would mean that the field value was 6 from the 2 nd to 68 th packet or from 0.02s to 2.2s.		

PFV PTP PRPTransitions <messageType> <fieldName>

	Get		
Description	Returns a set of comma-separated values detailing how a PRP (Paralled Redundancy Protocol) field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.		
Command	PFV PTP PRPTransitions <messagetype> <fieldname></fieldname></messagetype>		
Parameters	<messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP fieldname> The message field name. This must be one of the following:</messagetype>		
	LanId		
Pre-requisites	A file must be loaded and have been analyzed by the PFV.		
Result	Returns a set of comma-separated values. Example output: Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2		
	The above example would mean that the field value was 6 from the 2^{nd} to 68^{th} packet or from 0.02s to 2.2s.		

PFV PTP TLVTransitions <messageType> <tlvName> <tlvField>

		•	
	Get		
Description	Returns a set of comma-separated values detailing how a TLV field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it. The range also indicates the zero-based index of the TLV in the message (which may contain multiple TLVs).		
Command	PFV PTP TLVTransi	tions <messagetype> <tlvname> <tlvfield></tlvfield></tlvname></messagetype>	
Parameters	<messagetype> <tlvname> <tlvfield></tlvfield></tlvname></messagetype>	The PTP message type. This must be one of the following:ANNOUNCESYNCFOLLOWUPDELREQDELRESPMANAGEMENTPDELREQPDELRESPPDELRESPFUPThe TLV being queried. The name must come from the "TLVName" in the table in section "TLV Field Names".The TLV field name. Valid field names can be found in the table in section "TLV Field Names".	
Pre-requisites	A file must be loaded and have been analyzed by the PFV.		
Result	Returns a set of comma-separated values. Example output:		
	PacketNumberFrom,PacketNumberTo,PacketTimestampFrom,PacketTimestampTo, IndexOfTlv1,TlvValue1\n7,32,7E-05,0.0625,0,3,\n		
	The above example would mean that the TLV was found in messages from the 7^{th} to the 32^{nd} packet in the capture, or from time 70μ s to $62.5ms$, and that:		
	 The TLV was found at index 0 throughout this time, and The value of the requested field was 3 		

PFV ToD G8271Transitions <messageType> <fieldName>

	Get	
Description	Returns a set of comma-separated values detailing how a field changed its value throughout the duration of the G.8271 ToD capture. Each range has a set of delimiting message indexes and timestamps associated with it.	
Command	PFV ToD G8271Transitions <messagetype> <fieldname></fieldname></messagetype>	
Parameters	<pre><messagetype> The message type. One of the following: TimeEvent TimeAnnounce GnssStatus</messagetype></pre>	
	<pre><fieldname> The message field name. The available field names for specific message types are listed below. TimeEvent: Flags CurrentUtcOffset</fieldname></pre>	
	TimeAnnounce: VersionPtp DomainNumber FlagField SourceClockIdentity GmPriority1 GmPriority2 ClockClass ClockAccuracy Oslv GmClockIdentity StepsRemoved TimeSource	
	GnnsStatus:	
	TimeSource Status Alarms	
Pre-requisites	A file must be loaded and have been analyzed by the PFV.	
Result	Returns a set of comma-separated values. Example output:	
	Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 2, 68	
	The above example would mean that the field value was 6 from the 2 nd to 68 th packet or from 2s to 68s.	

PFV ToD Transitions <fieldName>

	Get	
Description	Returns a set of comma-separated values detailing how a field changed its value throughout the duration of the ToD capture. Each range has a set of delimiting message indexes and timestamps associated with it. This command is specific to CCSA messages for backwards comatibility.	
Command	PFV ToD Transitions <fieldname></fieldname>	
Parameters	<pre><fieldname> The message field name. Available values are: Week LeapS PPSStatus TAcc TimeSourceType TimesSourceStatus Alarms</fieldname></pre>	
Pre-requisites	A file must be loaded and have been analyzed by the PFV.	
Result	Returns a set of comma-separated values. Example output: Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 2, 68 The above example would mean that the field value was 6 from the 2 nd to 68 th packet or from 2s to 68s.	

	Get	
Description	This extended version of the PTP Transitions command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.	
	Returns a set of comma-separated values detailing how a field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.	
Command	PFV PTP TwoTimeTransmitters Transitions <timetransmitterid> <messagetype> <fieldname></fieldname></messagetype></timetransmitterid>	
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2</timetransmitterid>	
	<pre><messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP</messagetype></pre>	
	<fieldname> The message field name. The field names are listed in " PTP Field Names" above.</fieldname>	
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' PTP capture file must be loaded and have been analyzed by the PFV.	
Result	Returns a set of comma-separated values. Example output:	
	Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2	
	If we assume that the example output above was returned by specifying 'TIMETRANSMITTER1' as the <timetransmitterid> this would mean that the field value was 6 from 0.02s to 2.2s for 'TIMETRANSMITTER1' and the first and last packet numbers in this range were 2 and 68 respectively. It does not mean that every packet between 2 and 68 (exclusive) originated at 'TIMETRANSMITTER1'.</timetransmitterid>	

PFV PTP TwoTimeTransmitters TLVTransitions <timeTransmitterId> <messageType> <tlvName> <tlvField>

		Get
Description	This extended version of the PTP TLVTransitions command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' or 'Two TimeRecievers' captures where message captures from two disitinct timeTransmitter or timeReciever devices are present in a single capture file.	
	throughout the duratic packet indexes and tim	a-separated values detailing how a TLV field changed its value on of the PTP capture. Each range has a set of delimiting lestamps associated with it. The range also indicates the e TLV in the message (which may contain multiple TLVs).
Command	PFV PTP TwoTimeTrans <tlvname> <tlvfield></tlvfield></tlvname>	smitters TLVTransitions <timetransmitterid> <messagetype></messagetype></timetransmitterid>
Parameters	<timetransmitterid></timetransmitterid>	The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2
	<messagetype></messagetype>	The PTP message type. This must be one of the following:ANNOUNCESYNCFOLLOWUPDELREQDELRESPMANAGEMENTPDELREQPDELRESPPDELRESPFUP
	<tlvname></tlvname>	The TLV being queried. The name must come from the "TLV Name" in the table in section "TLV Field Names".
	<tlvfield></tlvfield>	The TLV field name. Valid field names can be found in the table in section "TLV Field Names".
Pre-requisites	A file must be loaded and have been analyzed by the PFV.	
Result	Returns a set of comma-separated values. Example output:	
	PacketNumberFrom,PacketNumberTo,PacketTimestampFrom,PacketTimestampTo, IndexOfTlv1,TlvValue1\n7,32,7E-05,0.0625,0,3,\n	
	The above example would mean that the TLV was found in messages from the 7^{th} to th 32ns packet in the capture, or from time $70\mu s$ to 62.5ms, and that:	
	 The TLV was found at index 0 throughout this time, and The value of the requested field was 3 	

PFV PTP TwoTimeTransmitters HSRTransitions <timeTransmitterId> <messageType> <fieldName>

Get						
Description	This extended version of the PTP HSRTransitions command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file. Returns a set of comma-separated values detailing how an HSR (High availablility Seamless Redundnacy protocol) field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.					
Command	PFV PTP TwoTimeTransmitters HSRTransitions <timetransmitterid> <messagetype> <fieldname></fieldname></messagetype></timetransmitterid>					
Parameters	<ti><timetransmitterid>TIMETRANSMITTER1 TIMETRANSMITTER2 <messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP <fieldname> The message field name. This must be one of the following: NetId LanId</fieldname></messagetype></timetransmitterid></ti>					
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' PTP capture file must be loaded and have been analyzed by the PFV.					
Result	Returns a set of comma-separated values. Example output:					
	Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2					
	If we assume that the example output above was returned by specifying 'TIMETRANSMITTER1' as the <timetransmitterid> this would mean that the field value was 6 from 0.02s to 2.2s for 'TIMETRANSMITTER1' and the first and last packet numbers in this range were 2 and 68 respectively. It does not mean that every packet between 2 and 68 (exclusive) originated at 'TIMETRANSMITTER1'.</timetransmitterid>					

PFV PTP TwoTimeTransmitters PRPTransitions <timeTransmitterId> <messageType> <fieldName>

	Get						
Description	This extended version of the PTP PRPTransitions command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file. Returns a set of comma-separated values detailing how a PRP (Parallel Redundnacy Protocol) field changed its value throughout the duration of the PTP capture. Each						
	range has a set of delimiting packet indexes and timestamps associated with it.						
Command	PFV PTP TwoTimeTransmitters PRPTransitions <timetransmitterid> <messagetype> <fieldname></fieldname></messagetype></timetransmitterid>						
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2</timetransmitterid>						
	<pre><messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP</messagetype></pre>						
	<fieldname> The message field name. This must be one of the following: LanId</fieldname>						
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' PTP capture file must be loaded and have been analyzed by the PFV.						
Result	Returns a set of comma-separated values. Example output:Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2If we assume that the example output above was returned by specifying 'TIMETRANSMITTER1' as the <timetransmitterid> this would mean that the field value was 6 from 0.02s to 2.2s for 'TIMETRANSMITTER1' and the first and last packet numbers in this range were 2 and 68 respectively. It does not mean that every packet between 2 and 68 (exclusive) originated at 'TIMETRANSMITTER1'.</timetransmitterid>						

PFV PTP MessageRate <messageType>

Get							
Description	Returns the message rate for the given message type.						
Command	PFV PTP MessageRate <messagetype></messagetype>						
Parameters	<pre><messagetype> The PTP message type. This must be one of the following:</messagetype></pre>						
	SYNC FOLLOWUP						
	DELREQ DELRESP						
	PDELREQ PDELRESP PDELRESPFUP						
	ANNOUNCE SIGNALING MANAGEMENT						
Pre-requisites	A file must be loaded and have been analyzed by the PFV.						
Result	Returns the rate of the requested <messagetype> in packets per second. If the</messagetype>						
	requested <messagetype> is not present in the capture file "N/A" will be returned.</messagetype>						

PFV PTP TwoTimeTransmitters MessageRate <timeTransmitterId> <messageType>

Get						
Description	This extended version of the MessageRate command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.					
	Returns the message rate for the given message type and timeTransmitter device identifier.					
Command	PFV PTP TwoTimeTransmitters MessageRate <timetransmitterid> <messagetype></messagetype></timetransmitterid>					
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2 <messagetype> The PTP message type. This must be one of the following: SYNC FOLLOWUP DELREQ DELRESP</messagetype></timetransmitterid>					
	PDELREQ PDELRESP PDELRESPFUP ANNOUNCE SIGNALING MANAGEMENT					
Pre-requisites	A Paragon-neo 'Two TimeTransmitters capture file must be loaded and have been analyzed by the PFV.					
Result	Returns the rate of the requested <messagetype> in packets per second for the specified <timetransmitterid>. If the requested <messagetype> is not present in the capture file for the specified <timetransmitterid> "N/A" will be returned.</timetransmitterid></messagetype></timetransmitterid></messagetype>					

PFV PTP DirectionalMessageRate <captureDirection> <messageType>

Get							
Description	Returns the message rate for the given message type.						
Command	PFV PTP DirectionalMessageRate <capturedirection> <messagetype></messagetype></capturedirection>						
Parameters	<capturedirection></capturedirection>	The direction the message was captured at the measurement port. Tx is a transmitted message at the					
		port, Rx is a received message at the port. Tx Rx Any					
	<messagetype></messagetype>	The PTP message following: SYNC DELREQ PDELREQ ANNOUNCE		Any ust be one of the PDELRESPFUP MANAGEMENT			
Pre-requisites	A file must be loaded and have been analyzed by the PFV.						
Result	Returns the rate of the requested <messagetype> in packets per second. If the requested <messagetype> is not present in the capture file "N/A" will be returned.</messagetype></messagetype>						

PFV PTP TwoTimeTransmitters DirectionalMessageRate <timeTransmitterId> <captureDirection> <messageType>

		Get		
Description	This extended version of the MessageRate command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns the message rate for the given message type and timeTransmitter device identifier.			
Command	PFV PTP TwoTimeTransmitters DirectionalMessageRate <timetransmitterid> <capturedirection> <messagetype></messagetype></capturedirection></timetransmitterid>			
Parameters	<timetransmitterid></timetransmitterid>	following: TIMETRANSM	IITTER1 TIMI	tifier. This must be one of the ETRANSMITTER2
	<capturedirection></capturedirection>		mitted messa	s captured at the selected age at the port, Rx is a Any
	<messagetype></messagetype>	The PTP message SYNC DELREQ PDELREQ ANNOUNCE	e type. This m FOLLOWUP DELRESP PDELRESP SIGNALING	ust be one of the following: PDELRESPFUP MANAGEMENT
Pre-requisites	A Paragon-neo 'Two Tin analyzed by the PFV.	meTransmitters' ca	apture file mu	ust be loaded and have been
Result		itterId>. If the requ	uested <mess< th=""><th>ackets per second for the ageType> is not present in the A" will be returned.</th></mess<>	ackets per second for the ageType> is not present in the A" will be returned.

PFV PTP MessageRatePass <messageType>

Get				
Description	Returns a Boolean result indicating the success or failure of a message rate rule for			
	the specified message type.			
Command	PFV PTP MessageRatePass <messagetype></messagetype>			
Parameters	<pre><messagetype> The PTP message type. This must be one of the following:</messagetype></pre>			
	SYNC FOLLOWUP			
	DELREQ DELRESP			
	PDELREQ PDELRESP PDELRESPFUP			
	ANNOUNCE SIGNALING MANAGEMENT			
Pre-requisites	A file must be loaded and have been analyzed by the PFV.			
Result	Returns the result of the relevant PFV analysis 'averageMessageRate' rule. If TRUE,			
	the message rate passed the rule associated with the <messagetype>; if FALSE then</messagetype>			
	the rules check has failed.			
	Note that if the specified <messagetype> has no rules associated with it the result</messagetype>			
	returned will be FALSE.			

PFV PTP TwoTimeTransmitters MessageRatePass <timeTransmitterId> <messageType>

	Get			
Description	This extended version of the MessageRatePass command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns a Boolean result indicating the success or failure of a message rate rule for the specified message type and timeTransmitter.			
Command	PFV PTP TwoTimeTransmitters MessageRatePass <timetransmitterid> <messagetype></messagetype></timetransmitterid>			
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2</timetransmitterid>			
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC FOLLOWUP DELREQ DELRESP PDELREQ PDELRESP PDELRESPFUP ANNOUNCE SIGNALING MANAGEMENT</messagetype></pre>			
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' capture file must be loaded and have been analyzed by the PFV.			
Result	Returns the result of the relevant PFV analysis 'averageMessageRate' rule. If TRUE, the message rate passed the rule associated with the <messagetype> and <timetransmitterid>; if FALSE then the rules check has failed.</timetransmitterid></messagetype>			
	Note that if the specified <messagetype> and <timetransmitterid> has no rules associated with it the result returned will be FALSE.</timetransmitterid></messagetype>			

PFV PTP DirectionalMessageRatePass <captureDirection> <messageType>

		Get		
Description	Returns a Boolean result indicating the success or failure of a message rate rule for			
	the specified message	e type and capture	direction.	
Command	PFV PTP DirectionalM	essageRatePass <c< th=""><th>aptureDirect</th><th>ion> <messagetype></messagetype></th></c<>	aptureDirect	ion> <messagetype></messagetype>
Parameters	<pre><capturedirection> The direction the message was captured at the</capturedirection></pre>			
	measurement port. Tx is a transmitted message at the port,			
	Rx is a received message at the port.			
		Tx	Rx	Any
	<messagetype></messagetype>	<pre><messagetype> The PTP message type. This must be one of the following:</messagetype></pre>		
		SYNC	FOLLOWUP	_
		DELREQ	DELRESP	
		PDELREQ	PDELRESP	PDELRESPFUP
		ANNOUNCE	SIGNALING	MANAGEMENT
Pre-requisites	A file must be loaded and have been analyzed by the PFV.			
Result	Returns the result of	the relevant PFV a	nalysis 'avera	geMessageRate' rule. If TRUE,
	the message rate passed the rule associated with the <messagetype>; if FALSE then</messagetype>			
	the rules check has failed. Note that if the specified <messagetype> has no rules</messagetype>			
	associated with it the result returned will be FALSE.			

PFV PTP TwoTimeTransmitters DirectionalMessageRatePass <timeTransmitterId> <messageType>

	Get			
Description	This extended version of the DirectionalMessageRatePass command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns a Boolean result indicating the success or failure of a message rate rule for the specified message type, capture direction and timeTransmitter.	r		
Command	PFV PTP TwoTimeTransmitters DirectionalMessageRatePass <timetransmitterid> <capturedirection> <messagetype></messagetype></capturedirection></timetransmitterid>			
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2 <capturedirection> The direction the message was captured at the selected port. Tx is a transmitted message at the port, Rx is a received message at the port. <messagetype> The PTP message type. This must be one of the following: SYNC FOLLOWUP DELREQ DELRESP PDELREQ PDELRESP PDELREQ PDELRESP ANNOUNCE SIGNALING</messagetype></capturedirection></timetransmitterid>			
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' capture file must be loaded and have been analyzed by the PFV.	1		
Result	Returns the result of the relevant PFV analysis 'averageMessageRate' rule. If TRUE, the message rate passed the rule associated with the <messagetype>, <capturedirection> and <timetransmitterid>; if FALSE then the rules check has failed. Note that if the specified <messagetype>, <capturedirection> and <timetransmitterid> has no rules associated with it the result returned will be FALSE.</timetransmitterid></capturedirection></messagetype></timetransmitterid></capturedirection></messagetype>	,		

PFV PTP MessageIntervalArithmeticMean <communicationType> <messageType>

		Get		
Description	Returns the arithmetic mean, in seconds to a picosecond resolution, of all inter-			
	message intervals for the	e specified communication type and message type.		
Command	PFV PTP MessageInterval	<pre>lArithmeticMean <communicationtype> <messagetype></messagetype></communicationtype></pre>		
Parameters	<communicationtype></communicationtype>	<communicationtype> PTP messages will be 'Unicast' or 'Multicast'</communicationtype>		
		determined by the value of the 'Unicast' flag in the		
		common message header.		
		UNICAST MULTICAST		
	<messagetype></messagetype>	The PTP message type. This must be one of the		
		following:		
		SYNC ANNOUNCE		
		DELREQ PDELREQ		
Pre-requisites	A file must be loaded and have been analyzed by the PFV.			
Result	Returns the arithmetic mean of all inter-message intervals measured for the			
	requested <communicationtype> and <messagetype> combination. The result</messagetype></communicationtype>			
	returned is expressed in seconds to a maximum of 12 decimal places. If the			
	requested <communicationtype> and <messagetype> is not present in the capture</messagetype></communicationtype>			
	file "N/A" will be returned.			

PFV PTP TwoTimeTransmitters MessageIntervalArithmeticMean <timeTransmitterId> <communicationType> <messageType>

	Get			
Description	This extended version of the MessageIntervalArithmeticMean command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns the arithmetic mean, in seconds to a picosecond resolution, of all inter- message intervals for the specified communication type and message type on the specified timeTransmitter device identifier.			
Command	PFV PTP TwoTimeTransmitters MessageIntervalArithmeticMean <timetransmitterid> <communicationtype> <messagetype></messagetype></communicationtype></timetransmitterid>			
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2</timetransmitterid>			
	<pre><communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST</communicationtype></pre>			
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ PDELREQ</messagetype></pre>			
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' capture file must be loaded and have been analyzed by the PFV.			
Result	Returns the arithmetic mean of all inter-message intervals measured for the requested <communicationtype> and <messagetype> combination on the requested <timetransmitterid> capture flow.</timetransmitterid></messagetype></communicationtype>			
	The result returned is expressed in seconds to a maximum of 12 decimal places. If the requested <communicationtype> and <messagetype> is not present in the capture file for the specified <timetransmitterid> "N/A" will be returned.</timetransmitterid></messagetype></communicationtype>			

PFV PTP MessageIntervalArithmeticMeanPass <communicationType> <messageType>

	Get		
Description	Returns a Boolean result indicating the success or failure of a 'meanInterMessageInterval' rule for the specified communication type and message type.		
Command	PFV PTP MessageIntervalArithmeticMeanPass <communicationtype> <messagetype></messagetype></communicationtype>		
Parameters	<communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST <messagetype> The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ PDELREQ</messagetype></communicationtype>		
Pre-requisites	A file must be loaded and have been analyzed by the PFV. An appropriate rules file must also be active.		
Result	Returns the result of the relevant PFV analysis 'meanInterMessageInterval' rule. If TRUE, the calculated 'MessageIntervalArithmeticMean' value passed the rule associated with the <communicationtype> and <messagetype>; if FALSE then the rule check has failed. Note that if the specified <communicationtype> and <messagetype> has no rule associated with it the result returned will be FALSE.</messagetype></communicationtype></messagetype></communicationtype>		

PFV PTP TwoTimeTransmitters MessageIntervalArithmeticMeanPass <timeTransmitterId> <communicationType> <messageType>

	Get			
Description	This extended version of the MessageIntervalArithmeticMeanPass command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns a Boolean result indicating the success or failure of a 'meanInterMessageInterval' rule for the specified timeTransmitter identifier, communication type and message type.			
Command	PFV PTP TwoTimeTransmitters MessageIntervalArithmeticMeanPass <timetransmitterid> <communicationtype> <messagetype></messagetype></communicationtype></timetransmitterid>			
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2 <communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST</communicationtype></timetransmitterid>			
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ PDELREQ</messagetype></pre>			
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' capture file must be loaded and have been analyzed by the PFV. An appropriate rules file must also be active.			
Result	Returns the result of the relevant PFV analysis 'meanInterMessageInterval' rule. If TRUE, the calculated 'MessageIntervalArithmeticMean' value passed the rule associated with the <timetransmitterid>, <communicationtype> and <messagetype>; if FALSE then the rule check has failed. Note that if the specified <timetransmitterid>, <communicationtype> and <messagetype> has no rule associated with it the result returned will be FALSE.</messagetype></communicationtype></timetransmitterid></messagetype></communicationtype></timetransmitterid>			

PFV PTP MessageIntervalPassPercentage <communicationType> <messageType>

	Get		
Description	Returns the percentage of inter-message intervals measured for the specified communication type and message type that lie within +/- 30% of the corresponding log message interval. This metric is calculated in order to test against inter-message interval expectations as detailed in the 2019 revision of the IEEE 1588 standards.		
Command	PFV PTP MessageIntervalPassPercentage <communicationtype> <messagetype></messagetype></communicationtype>		
Parameters	<pre><communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST </communicationtype></pre> <pre></pre>		
Pre-requisites	A file must be loaded and have been analyzed by the PFV.		
Result	Returns the pass percentage all inter-message intervals measured for the requested <communicationtype> and <messagetype> combination that lie within +/- 30% of the corresponding log message interval. If the requested <communicationtype> and <messagetype> is not present in the capture file "N/A" will be returned.</messagetype></communicationtype></messagetype></communicationtype>		

PFV PTP TwoTimeTransmitters MessageIntervalPassPercentage <timeTransmitterId> <communicationType> <messageType>

	Get			
Description	This extended version of the MessageIntervalPassPercentage command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns the percentage of inter-message intervals measured for the specified communication type and message type that lie within +/- 30% of the corresponding log message interval. This metric is calculated in order to test against inter-message interval expectations as detailed in the 2019 revision of the IEEE 1588 standards.			
Command	PFV PTP TwoTimeTransmitters MessageIntervalPassPercentage <timetransmitterid> <communicationtype> <messagetype></messagetype></communicationtype></timetransmitterid>			
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2 <communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST</communicationtype></timetransmitterid>			
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ</messagetype></pre>			
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' capture file must be loaded and have been analyzed by the PFV.			
Result	Returns the pass percentage all inter-message intervals measured for the requested <timetransmitterid>, <communicationtype> and <messagetype> combination that lie within +/- 30% of the corresponding log message interval. If the requested <timetransmitterid>, <communicationtype> and <messagetype> is not present in the capture file "N/A" will be returned.</messagetype></communicationtype></timetransmitterid></messagetype></communicationtype></timetransmitterid>			

PFV PTP MessageIntervalPassPercentagePass < communicationType> < messageType>

	Get		
Description	Returns a Boolean result indicating the success or failure of a 'interMessageIntervalPassPercentage' rule for the specified communication type and message type.		
Command	PFV PTP MessageIntervalPassPercentagePass <communicationtype> <messagetype></messagetype></communicationtype>		
Parameters	<pre><communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST <messagetype> The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ</messagetype></communicationtype></pre>		
Pre-requisites	A file must be loaded and have been analyzed by the PFV. An appropriate rules file must also be active.		
Result	Returns the result of the relevant PFV analysis 'interMessageIntervalPassPercentage' rule. If TRUE, the calculated 'MessageIntervalPassPercentage' value passed the rule associated with the <communicationtype> and <messagetype>; if FALSE then the rule check has failed. Note that if the specified <communicationtype> and <messagetype> has no rule associated with it the result returned will be FALSE.</messagetype></communicationtype></messagetype></communicationtype>	,	

PFV PTP TwoTimeTransmitters MessageIntervalPassPercentagePass <timeTransmitterId> <communicationType> <messageType>

	Get			
Description	This extended version of the MessageIntervalPassPercentagePass command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.			
	Returns a Boolean result indicating the success or failure of a 'interMessageIntervalPassPercentage' rule for the specified timeTransmitter identifier, communication type and message type.			
Command	PFV PTP TwoTimeTransmitters MessageIntervalPassPercentagePass <timetransmitterid> <communicationtype> <messagetype></messagetype></communicationtype></timetransmitterid>			
Parameters	<timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2</timetransmitterid>			
	<pre><communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST MULTICAST</communicationtype></pre>			
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ</messagetype></pre>			
Pre-requisites	A Paragon-neo 'Two TimeTransmitters' capture file must be loaded and have been analyzed by the PFV. An appropriate rules file must also be active.			
Result	Returns the result of the relevant PFV analysis 'interMessageIntervalPassPercentage' rule. If TRUE, the calculated 'MessageIntervalPassPercentage' value passed the rule associated with the <timetransmitterid>, <communicationtype> and <messagetype>; if FALSE then the rule check has failed.</messagetype></communicationtype></timetransmitterid>			
	Note that if the specified <timetransmitterid>, <communicationtype> and <messagetype> has no rule associated with it the result returned will be FALSE.</messagetype></communicationtype></timetransmitterid>			

PFV PTP TwoTimeTransmitters MessageCount <timeTransmitterId> <captureDrection> <messageType>

		Get			
Description	This extended version of the MessageCount command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file. Returns the message count for the specified message type, capture direction and timeTransmitter identifier.				
Command	PFV PTP TwoTimeTransmitters MessageCount <timetransmitterid> <capturedirection> <messagetype></messagetype></capturedirection></timetransmitterid>				
Parameters	<timetransmitterid></timetransmitterid>	<i>imeTransmitterId></i> The PTP timeTransmitter identifier. This must be one of the following: TIMETRANSMITTER1 TIMETRANSMITTER2			
	<capturedirection></capturedirection>	The direction the message was captured at the measurement port. Tx is a transmitted message at the port, Rx is a received message at the port. Tx Rx Any			
	<messagetype></messagetype>	The PTP message type. This must be one of the following: SYNC FOLLOWUP DELREQ DELRESP PDELREQ PDELRESP PDELRESPFUP ANNOUNCE SIGNALING MANAGEMENT			
Pre-requisites	A file must be loaded and have been analyzed by the PFV.				
Result	Returns the message count of the requested <messagetype> in the requested <capturedirection> for the specified <timetransmitterid>. Use <capturedirection> 'Any' to retrieve the total number of <messagetype></messagetype></capturedirection></timetransmitterid></capturedirection></messagetype>				
	messages captured. If the requested <messagetype> is not present in the capture file 0 will be returned.</messagetype>				

PFV PTP MessageCountPass <captureDrection> <messageType>

	Get					
Description	Returns a Boolean result indicating the success or failure of a message count rule for					
	the specified message type and capture direction.					
Command	PFV PTP MessageCou	ntPass <capturedi< th=""><th>rection> <me< th=""><th>ssageType></th></me<></th></capturedi<>	rection> <me< th=""><th>ssageType></th></me<>	ssageType>		
Parameters	<capturedirection></capturedirection>	The direction the	message wa	s captured at the		
		measurement po	rt. Tx is a tran	nsmitted message at the		
		port, Rx is a recei	ved message	at the port.		
		Tx	Rx	Any		
	<messagetype></messagetype>	The PTP message type. This must be one of the				
	5 //	following:				
		SYNC	FOLLOWUP			
		DELREQ DELRESP				
		PDELREQ	PDELRESP	PDELRESPFUP		
		ANNOUNCE	SIGNALING	MANAGEMENT		
Pre-requisites	A file must be loaded and have been analyzed by the PFV.					
Result	Returns the result of the relevant PFV analysis 'messageCount' rule. If TRUE, the					
	message count passed the rule associated with the <messagetype> and</messagetype>					
	<capturedirection>; if FALSE then the rule check has failed.</capturedirection>					
	Note that if the specified <messagetype> and <capturedirection> has no rule</capturedirection></messagetype>					
	associated with it the					

PFV PTP TwoTimeTransmitters MessageCountPass <timeTransmitterId> <captureDrection> <messageType>

		Get			
Description	This extended version of the MessageCountPass command is provided to query the analysis of Paragon-neo 'Two TimeTransmitters' captures where message captures from two disitinct timeTransmitter devices are present in a single capture file.				
	Returns a Boolean result indicating the success or failure of a message count rule for the specified message type, capture direction and timeTransmitter identifier.				
Command	PFV PTP TwoTimeTransmitters MessageCountPass <timetransmitterid> <capturedirection> <messagetype></messagetype></capturedirection></timetransmitterid>				
Parameters	<pre><timetransmitterid> The PTP timeTransmitter identifier. This must be one of the following:</timetransmitterid></pre>				
	-	The direction the message was captured at the measurement port. Tx is a transmitted message at the port, Rx is a received message at the port. Tx Rx Any			
	<messagetype></messagetype>	The PTP message SYNC DELREQ PDELREQ ANNOUNCE	FOLLOWUP DELRESP PDELRESP	ust be one of the following: PDELRESPFUP MANAGEMENT	
Pre-requisites	A file must be loaded and have been analyzed by the PFV.				
Result	Returns the result of the relevant PFV analysis 'messageCount' rule. If TRUE the message count passed the rule associated with the <messagetype>, <capturedirection> and <timetransmitterid>; if FALSE then the rule check has failed. Note that if the specified <messagetype>, <capturedirection> and</capturedirection></messagetype></timetransmitterid></capturedirection></messagetype>				
	•	•	•	result returned will be FALSE.	

PFV PTP TwoMasters Transitions <masterId> <messageType> <fieldName>

	Get					
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."					
	This extended version of the PTP Transitions command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.					
	Returns a set of comma-separated values detailing how a field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.					
Command	PFV PTP TwoMasters Transitions <masterid> <messagetype> <fieldname></fieldname></messagetype></masterid>					
Parameters	<pre><masterid> The PTP master identifier. This must be one of the following: MASTER1 MASTER2</masterid></pre>					
	<pre><messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP</messagetype></pre>					
	<pre><fieldname> The message field name. The field names are listed in " PTP Field Names" above.</fieldname></pre>					
Pre-requisites	A Paragon-neo 'Two Masters' PTP capture file must be loaded and have been analyzed by the PFV.					
Result	Returns a set of comma-separated values. Example output:					
	Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2					
	Assuming that the example output above was returned by specifying 'MASTER1' as the <masterid> this would mean that the field value was 6 from 0.02s to 2.2s for 'MASTER1' and the first and last packet numbers in this range were 2 and 68 respectively. It does not mean that every packet between 2 and 68 (exclusive) originated at 'MASTER1'.</masterid>					

PFV PTP TwoMasters TLVTransitions <masterId> <messageType> <tlvName> <tlvField>

	Get					
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."					
	This extended version of the PTP TLVTransitions command is provided to query the analysis of Paragon-neo 'Two Masters' or 'Two Subordinates' captures where message captures from two disitinct master or subordinate devices are present in a single capture file.					
	throughout the du packet indexes and	mma-separated values detailing how a TLV field changed its value ration of the PTP capture. Each range has a set of delimiting d timestamps associated with it. The range also indicates the of the TLV in the message (which may contain multiple TLVs).				
Command	PFV PTP TwoMaste <tlvfield></tlvfield>	ers TLVTransitions <masterid> <messagetype> <tlvname></tlvname></messagetype></masterid>				
Parameters	<masterid></masterid>	The PTP master identifier. This must be one of the following: MASTER1 MASTER2				
	<messagetype></messagetype>	The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP				
	<tlvname></tlvname>	The TLV being queried. The name must come from the "TLV Name" in the table in section "TLV Field Names".				
	<tlvfield></tlvfield>	The TLV field name. Valid field names can be found in the table in section "TLV Field Names".				
Pre-requisites	A file must be loaded and have been analyzed by the PFV.					
Result	Returns a set of comma-separated values. Example output:					
	PacketNumberFrom,PacketNumberTo,PacketTimestampFrom,PacketTimestampTo, IndexOfTlv1,TlvValue1\n7,32,7E-05,0.0625,0,3,\n					
	 The above example would mean that the TLV was found in messages from the 7th to the 32nd packet in the capture, or from time 70µs to 62.5ms, and that: The TLV was found at index 0 throughout this time, and The value of the requested field was 3 					

PFV PTP TwoMasters HSRTransitions <masterId> <messageType> <fieldName>

	Get					
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."					
	This extended version of the PTP HSRTransitions command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.					
	Returns a set of comma-separated values detailing how an HSR (High availablility Seamless Redundnacy protocol) field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.					
Command	PFV PTP TwoMasters HSRTransitions <masterid> <messagetype> <fieldname></fieldname></messagetype></masterid>					
Parameters	<pre><masterid> The PTP master identifier. This must be one of the following: MASTER1 MASTER2</masterid></pre>					
	<pre><messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP</messagetype></pre>					
	<pre><fieldname> The message field name. This must be one of the following: "</fieldname></pre>					
Pre-requisites	A Paragon-neo 'Two Masters' PTP capture file must be loaded and have been analyzed by the PFV.					
Result	Returns a set of comma-separated values. Example output:					
	Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2					
	Assuming that the example output above was returned by specifying 'MASTER1' as the <masterid> this would mean that the field value was 6 from 0.02s to 2.2s for 'MASTER1' and the first and last packet numbers in this range were 2 and 68 respectively. It does not mean that every packet between 2 and 68 (exclusive) originated at 'MASTER1'.</masterid>					

PFV PTP TwoMasters PRPTransitions <masterId> <messageType> <fieldName>

	Get					
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."					
	This extended version of the PTP PRPTransitions command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.					
	Returns a set of comma-separated values detailing how a PRP (Parallel Redundnacy Protocol) field changed its value throughout the duration of the PTP capture. Each range has a set of delimiting packet indexes and timestamps associated with it.					
Command	PFV PTP TwoMasters PRPTransitions <masterid> <messagetype> <fieldname></fieldname></messagetype></masterid>					
Parameters	<pre><masterid> The PTP master identifier. This must be one of the following: MASTER1 MASTER2</masterid></pre>					
	<pre><messagetype> The PTP message type. This must be one of the following: ANNOUNCE SYNC FOLLOWUP DELREQ DELRESP MANAGEMENT PDELREQ PDELRESP PDELRESPFUP</messagetype></pre>					
	<pre><fieldname> The message field name. This must be one of the following: " LanId</fieldname></pre>					
Pre-requisites	A Paragon-neo 'Two Masters' PTP capture file must be loaded and have been analyzed by the PFV.					
Result	Returns a set of comma-separated values. Example output:					
	Value, PacketNumberFrom, PacketNumberTo, PacketTimestampFrom, PacketTimestampTo, 6, 2, 68, 0.02, 2.2					
	Assuming that the example output above was returned by specifying 'MASTER1' as the <masterid> this would mean that the field value was 6 from 0.02s to 2.2s for 'MASTER1' and the first and last packet numbers in this range were 2 and 68 respectively. It does not mean that every packet between 2 and 68 (exclusive) originated at 'MASTER1'.</masterid>					

PFV PTP TwoMasters MessageRate <masterId> <messageType>

	Get					
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."					
	This extended version of the MessageRate command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.					
	Returns the message rate for the given message type and master device identifier.					
Command	PFV PTP TwoMasters MessageRate <masterid> <messagetype></messagetype></masterid>					
Parameters	<pre><masterid> The PTP master identifier. This must be one of the following: MASTER1 MASTER2</masterid></pre>					
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC FOLLOWUP DELREQ DELRESP PDELREQ PDELRESP PDELRESPFUP ANNOUNCE SIGNALING MANAGEMENT</messagetype></pre>					
Pre-requisites	A Paragon-neo 'Two Masters' capture file must be loaded and have been analyzed by the PFV.					
Result	Returns the rate of the requested <messagetype> in packets per second for the specified <masterid>. If the requested <messagetype> is not present in the capture file for the specified <masterid> "N/A" will be returned.</masterid></messagetype></masterid></messagetype>					

PFV PTP TwoMasters DirectionalMessageRate <masterId> <captureDirection> <messageType>

	Get				
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."				
	This extended version of the MessageRate command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.				
	Returns the message	rate for the given i	message type	and master device identifier.	
Command	PFV PTP TwoMasters DirectionalMessageRate <masterid> <capturedirection> <messagetype></messagetype></capturedirection></masterid>				
Parameters	<masterid></masterid>	The PTP master identifier. This must be one of the following: MASTER1 MASTER2			
	<capturedirection> The direction the message was captured at the selected port. Tx is a transmitted message at the port, Rx is a received message at the port.</capturedirection>				
	<messagetype></messagetype>	Tx The PTP message SYNC DELREQ PDELREQ ANNOUNCE	Rx type. This m FOLLOWUP DELRESP PDELRESP SIGNALING	Any ust be one of the following: PDELRESPFUP MANAGEMENT	
Pre-requisites	A Paragon-neo 'Two Masters' capture file must be loaded and have been analyzed by the PFV.				
Result	Returns the rate of the requested <messagetype> in packets per second for the specified <masterid>. If the requested <messagetype> is not present in the capture file for the specified <masterid> "N/A" will be returned.</masterid></messagetype></masterid></messagetype>				

PFV PTP TwoMasters MessageRatePass <masterId> <messageType>

Get					
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."				
	This extended version of the MessageRatePass command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.				
	Returns a Boolean result indicating the success or failure of a message rate rule for the specified message type and master.				
Command	PFV PTP TwoMasters MessageRatePass <masterid> <messagetype></messagetype></masterid>				
Parameters	<masterid> The PTP master identifier. This must be one of the following: MASTER1 MASTER2</masterid>				
	<pre><messagetype> The PTP message type. This must be one of the following: SYNC FOLLOWUP DELREQ DELRESP PDELREQ PDELRESP PDELRESPFUP ANNOUNCE SIGNALING MANAGEMENT</messagetype></pre>				
Pre-requisites	A Paragon-neo 'Two Masters' capture file must be loaded and have been analyzed by the PFV.				
Result	Returns the result of the relevant PFV analysis 'averageMessageRate' rule. If TRUE, the message rate passed the rule associated with the <messagetype> and <masterid>; if FALSE then the rules check has failed.</masterid></messagetype>				
	Note that if the specified <messagetype> and <masterid> has no rules associated with it the result returned will be FALSE.</masterid></messagetype>				

PFV PTP TwoMasters DirectionalMessageRatePass <masterId> <messageType>

	Get				
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."				
	This extended version of the DirectionalMessageRatePass command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.				
	Returns a Boolean res the specified message	•		ure of a message rate rule for aster.	
Command	PFV PTP TwoMasters DirectionalMessageRatePass <masterid> <capturedirection> <messagetype></messagetype></capturedirection></masterid>				
Parameters	<masterid></masterid>	The PTP master identifier. This must be one of the following: MASTER1 MASTER2			
	<capturedirection></capturedirection>	The direction the message was captured at the selected port. Tx is a transmitted message at the port, Rx is a received message at the port. Tx Rx Any			
	<messagetype></messagetype>	The PTP message SYNC DELREQ PDELREQ ANNOUNCE	FOLLOWUP DELRESP PDELRESP	ust be one of the following: PDELRESPFUP MANAGEMENT	
Pre-requisites	A Paragon-neo 'Two Masters' capture file must be loaded and have been analyzed by the PFV.				
Result	Returns the result of the relevant PFV analysis 'averageMessageRate' rule. If TRUE, the message rate passed the rule associated with the <messagetype>, <capturedirection> and <masterid>; if FALSE then the rules check has failed.</masterid></capturedirection></messagetype>				
	Note that if the specified <messagetype>, <capturedirection> and <masterid> has no rules associated with it the result returned will be FALSE.</masterid></capturedirection></messagetype>				

PFV PTP TwoMasters MessageIntervalArithmeticMean <masterId> <communicationType> <messageType>

	Get			
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."			
	This extended version of the MessageIntervalArithmeticMean command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.			
	Returns the arithmetic mean, in seconds to a picosecond resolution, of all inter- message intervals for the specified communication type and message type on the specified master device identifier.			
Command	PFV PTP TwoMasters MessageIntervalArithmeticMean <masterid> <communicationtype> <messagetype></messagetype></communicationtype></masterid>			
Parameters	<masterid> The PTP master identifier. This must be one of the following: MASTER1 <communicationtype> PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header. UNICAST <messagetype> The PTP message type. This must be one of the following: SYNC</messagetype></communicationtype></masterid>			
Pre-requisites	DELREQ PDELREQ A Paragon-neo 'Two Masters' capture file must be loaded and have been analyzed by the PFV.			
Result	Returns the arithmetic mean of all inter-message intervals measured for the requested <communicationtype> and <messagetype> combination on the requested <masterid> capture flow. The result returned is expressed in seconds to a maximum of 12 decimal places. If the requested <communicationtype> and <messagetype> is not present in the capture file for the specified <masterid> "N/A" will be returned.</masterid></messagetype></communicationtype></masterid></messagetype></communicationtype>			

PFV PTP TwoMasters MessageIntervalArithmeticMeanPass <masterId> <communicationType> <messageType>

		Get		
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter'			
	command."			
		the MessageIntervalArithmeticMeanPass command is alysis of Paragon-neo 'Two Masters' captures where		
		wo disitinct master devices are present in a single capture		
		indicating the success or failure of a		
	type and message type.	val' rule for the specified master identifier, communication		
Command	PFV PTP TwoMasters MessageIntervalArithmeticMeanPass <masterid></masterid>			
	<communicationtype> <</communicationtype>			
Parameters	<masterid></masterid>	The PTP master identifier. This must be one of the		
		following: MASTER1 MASTER2		
	<communicationtype></communicationtype>	PTP messages will be 'Unicast' or 'Multicast'		
		determined by the value of the 'Unicast' flag in the		
		common message header.		
		UNICAST MULTICAST		
	<messagetype></messagetype>	The PTP message type. This must be one of the		
	5 77	following:		
		SYNC ANNOUNCE		
		DELREQ PDELREQ		
Pre-requisites	_	ters' capture file must be loaded and have been analyzed		
	, ,, ,	te rules file must also be active.		
Result		relevant PFV analysis 'meanInterMessageInterval' rule. If		
		ssageIntervalArithmeticMean' value passed the rule sterId>, <communicationtype> and <messagetype>; if</messagetype></communicationtype>		
	FALSE then the rule check			
	Note that if the specified	<masterid>, <communicationtype> and <messagetype></messagetype></communicationtype></masterid>		
	-	th it the result returned will be FALSE.		

PFV PTP TwoMasters MessageIntervalPassPercentage <masterId> <communicationType> <massageType>

		Get	
Description		588:2022 standard amendment 2 although this command orted we suggest you use the equivalent 'TimeTransmitter'	
	command."		
		the MessageIntervalPassPercentage command is provided aragon-neo 'Two Masters' captures where message	
		ct master devices are present in a single capture file.	
		of inter-message intervals measured for the specified message type that lie within +/- 30% of the corresponding	
	log message interval.	message type that he within 47-30% of the corresponding	
		n order to test against inter-message interval expectations exision of the IEEE 1588 standards.	
Command	PFV PTP TwoMasters MessageIntervalPassPercentage <masterid></masterid>		
	<communicationtype> <messagetype></messagetype></communicationtype>		
Parameters	<masterid></masterid>	The PTP master identifier. This must be one of the	
		following: MASTER1 MASTER2	
	<communicationtype></communicationtype>	PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header.	
		UNICAST MULTICAST	
	<messagetype></messagetype>	The PTP message type. This must be one of the following:	
		SYNC ANNOUNCE DELREQ	
Pre-requisites	A Paragon-neo 'Two Mas by the PFV.	ters' capture file must be loaded and have been analyzed	
Result	<masterid>, <communica +/- 30% of the correspon</communica </masterid>	age all inter-message intervals measured for the requested ationType> and <messagetype> combination that lie within ding log message interval. If the requested <masterid>, and <messagetype> is not present in the capture file "N/A"</messagetype></masterid></messagetype>	

PFV PTP TwoMasters MessageIntervalPassPercentagePass <masterId> <communicationType> <messageType>

		Get		
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."			
	This extended version of the MessageIntervalPassPercentagePass command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.			
		indicating the success or failure of a sPercentage' rule for the specified master identifier, message type.		
Command	PFV PTP TwoMasters MessageIntervalPassPercentagePass <masterid> <communicationtype> <messagetype></messagetype></communicationtype></masterid>			
Parameters	<masterid> <communicationtype></communicationtype></masterid>	The PTP master identifier. This must be one of the following: MASTER1 MASTER2 PTP messages will be 'Unicast' or 'Multicast' determined by the value of the 'Unicast' flag in the common message header.		
	<messagetype></messagetype>	UNICAST MULTICAST The PTP message type. This must be one of the following: SYNC ANNOUNCE DELREQ		
Pre-requisites	A Paragon-neo 'Two Masters' capture file must be loaded and have been analyzed by the PFV. An appropriate rules file must also be active.			
Result	rule. If TRUE, the calculate associated with the <mas FALSE then the rule check</mas 	relevant PFV analysis 'interMessageIntervalPassPercentage' ed 'MessageIntervalPassPercentage' value passed the rule terId>, <communicationtype> and <messagetype>; if < has failed. <masterid>, <communicationtype> and <messagetype></messagetype></communicationtype></masterid></messagetype></communicationtype>		
	-	th it the result returned will be FALSE.		

PFV PTP TwoMasters MessageCount <masterId> <captureDrection> <messageType>

		Get		
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."			
	This extended version of the MessageCount command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.			
	Returns the message master identifier.	count for the speci	fied message	e type, capture direction and
Command	PFV PTP TwoMasters MessageCount <masterid> <capturedirection> <messagetype></messagetype></capturedirection></masterid>			
Parameters	<masterid></masterid>	The PTP master ic MASTER1	lentifier. This MASTER2	s must be one of the following:
	<capturedirection></capturedirection>		mitted messa	s captured at the measurement age at the port, Rx is a received Any
	<messagetype></messagetype>	The PTP message SYNC DELREQ PDELREQ ANNOUNCE	FOLLOWUP DELRESP	ust be one of the following: PDELRESPFUP MANAGEMENT
Pre-requisites	A file must be loaded	and have been ana	lyzed by the	PFV.
Result	Returns the message <capturedirection> fo</capturedirection>	•		geType> in the requested
	Use <capturedirection messages captured.</capturedirection 	'Any' to retrieve	the total nu	mber of <messagetype></messagetype>
	If the requested <me< th=""><th>ssageType> is not p</th><th>present in the</th><th>e capture file 0 will be returned.</th></me<>	ssageType> is not p	present in the	e capture file 0 will be returned.

PFV PTP TwoMasters MessageCountPass <masterId> <captureDrection> <messageType>

		Get			
Description	"In support of the IEEE 1588:2022 standard amendment 2 although this command will continue to be supported we suggest you use the equivalent 'TimeTransmitter' command."				
	analysis of Paragon-ne	This extended version of the MessageCountPass command is provided to query the analysis of Paragon-neo 'Two Masters' captures where message captures from two disitinct master devices are present in a single capture file.			
	Returns a Boolean rest the specified message	•		ure of a message count rule for aster identifier.	
Command	PFV PTP TwoMasters MessageCountPass <masterid> <capturedirection> <messagetype></messagetype></capturedirection></masterid>				
Parameters	<masterid></masterid>	The PTP master in MASTER1	lentifier. This MASTER2	must be one of the following:	
	<capturedirection></capturedirection>	port. Tx is a trans message at the p	mitted messa ort.	s captured at the measurement age at the port, Rx is a received	
		Тх	Rx	Any	
	<messagetype></messagetype>	The PTP message SYNC DELREQ PDELREQ ANNOUNCE	type. This m FOLLOWUP DELRESP PDELRESP SIGNALING	ust be one of the following: PDELRESPFUP MANAGEMENT	
Pre-requisites	A file must be loaded a	and have been and	alyzed by the	PFV.	
Result	Returns the result of the message count passed <capturedirection> and the message count passed</capturedirection>	the rule associate	ed with the <r< th=""><th></th></r<>		
	Note that if the specifi rule associated with it		-	irection> and <masterid> has no SE.</masterid>	

PFV Table Count (Deprecated)

This command is deprecated and should be replaced with PFV PTP Table Count. See PFV PTP Table Count for description.

PFV PTP Table Count

	Get	
Description	Returns the number of rows in the PTP data table.	
Command	PFV PTP Table Count	
Result	The number of rows in the table.	

PFV ToD Table Count

	Get	
Description	Returns the number of rows in the ToD data table.	
Command	PFV ToD Table Count	
Result	The number of rows in the table.	

PFV Table Data <rowOffset> <rowCount> (Deprecated)

This command is deprecated and should be replaced with PFV PTP Table Data. See PTP PFV Table Data for description.

PFV PTP Table Data <rowOffset> <rowCount>

		Get		
Description	Returns the data from specified PTP table rows.			
Command	PFV PTP Table D	PFV PTP Table Data <rowoffset> <rowcount></rowcount></rowoffset>		
Parameters	<rowoffset></rowoffset>	<pre><rowoffset> Integer. Zero-based index of the first row to be returned. This must be less than the total number of rows in the table.</rowoffset></pre>		
	<rowcount></rowcount>	Integer. The number of rows to return.		
Result	Returns the spec	cified rows from the table preceeded by the table header in csv format.		

PFV ToD Table Data <rowOffset> <rowCount>

		Get		
Description	Returns the data from specified ToD table rows.			
Command	PFV ToD Table D	PFV ToD Table Data <rowoffset> <rowcount></rowcount></rowoffset>		
Parameters	<rowoffset></rowoffset>	Integer. Zero-based index of the first row to be returned. This must be less than the total number of rows in the table.		
	<rowcount></rowcount>	Integer. The number of rows to return.		
Result	Returns the spec	ified rows from the table preceeded by the table header in csv format.		

PFV PTP Table Diagnostic <enable>

		Set		
Description	Toggles the visi	Toggles the visibility of diagnostic columns in the PTP data table.		
Command	PFV PTP Table	PFV PTP Table Diagnostic <i><enable></enable></i>		
Parameters	<enable></enable>	Boolean. TRUE will set the diagnostic columns in the data table visible, FALSE will hide them.		
Result		e of 'Ok' if the command was successful. If diagnostic information is not propriate message will be returned with an error reponse type.		

PFV PTP Table Export <file>

		Set	
Description	Exports the I	PTP data table contents to a comma-separated value (.csv) file.	
Command	PFV PTP Table Export <i><file></file></i>		
Parameters	<file></file>	The full path and name of the exported file (.csv extension is optional, it will be added automatically if ommited).	

PFV PTP Statistics Export <file>

Set		
Description	Exports the F	PTP statistics table contents to a comma-separated value (.csv) file.
Command	PFV PTP Statistics Export <i><file></file></i>	
Parameters	<file></file>	The full path and name of the exported file (.csv extension is
		optional, it will be added automatically if ommited).

PFV AutoRulesFileSelect <enable>

Set			
Description	Sets whether PFV will automatically select a Rules File based on PTP profile in the		
	capture file, if available.		
Command	PFV AutoRulesFileSelect <enable></enable>		
Parameters	<enable> TRUE or FALSE</enable>		
Get			
Description	Whether PFV will automatically select a Rules File based on PTP profile in the capture		
	file, if available.		
Command	PFV AutoRulesFileSelect		
Result	TRUE or FALSE corresponging to whether the AutoRulesFileSelect setting is enabled or		
	disabled respectively.		

PFV Close

Set		
Description	Closes the PFV application.	
Command	PFV Close	

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