

What is the estimated time error?



When the Qg 2 is acting as a slave, the estimated offset (or time error) from the master can be observed by looking at the Current Dataset.

You will find the Current Dataset on the page PTP::Dataset::PTP (non-profile) dataset. See below.

The screenshot shows the QULSAR web interface with the following sections:

- PTP (non-profile) dataset**
 - Default dataset**
 - Two step clock: FALSE
 - Clock Identity: FC AF 6A FF FE 2 E8 B4
 - Number of ports: 2
 - Clock quality: 248
 - Clock class: 254
 - Clock accuracy: 65535
 - Offset scaled log: 128
 - Priority 1: 128
 - Priority 2: 24
 - Domain number: FALSE
 - Slave only: FALSE
 - Current dataset**
 - Steps removed: 1
 - Offset from master: sec: 0 nsec: 000000000
 - Mean path delay: sec: 0 nsec: 00000674
 - Parent dataset**
 - Parent Port Identity:
 - Clock Identity: 0-0-0-0-0-0-1
 - Port number: 2
 - Parent State: False
 - Observed parent offset scaled log variance: 65535
 - Observed parent clock phase change rate: 2147483647
 - Grandmaster Identity: 0-0-0-0-0-0-1
 - Grandmaster clock quality:
 - Clock class: 6
 - Clock accuracy: 33
 - Offset scaled log: -----
- PTP profile dataset**
 - Time properties dataset**
 - Current UTC offset: 37
 - Current UTC offset valid: TRUE
 - Leap 59: FALSE
 - Leap 61: FALSE
 - Time traceable: TRUE
 - Frequency traceable: TRUE
 - PTP timescale: TRUE
 - Time source: Internal oscillator
 - Port dataset**
 - Port Identity:
 - Clock Identity: FC AF 6A 11 1 E 2 E8 B4
 - Port number: 1
 - Port state: PTP2_STATE_SLAVE
 - Log min delay req interval: -4
 - Peer mean path delay: sec: 0 nsec: 000000000
 - Log announce interval: -3
 - Announce receipt timeout: 3
 - Log sync interval: -4
 - Delay mechanism: E2E
 - Log min pdelay req interval: 0
 - Version number: 2
 - Port Identity:
 - Clock Identity: FC AF 6A FF FE 2 E8 B4
 - Port number: 2
 - Port state: PTP2_STATE_MASTER
 - Log min delay req interval: -4
 - Peer mean path delay: sec: 0 nsec: 000000000
 - Log announce interval: -3
 - Announce receipt timeout: 3

The current dataset will also tell you the estimated one-way path delay to the master if you are running E2E delay mechanism. If you are running P2P delay mechanism, you will find the path delay in the Port Dataset instead.

For any other technical information inquiries, please contact us at qq2_support@viavisolutions.com