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1 Query Tool

1.1 Command Dictionary Overview



You can query all major operating parameters of PresenTense servers and clients via the PresenTense query tool. This feature is useful in performing remote diagnostic tasks or setting operating parameters over the network.

- **Diagnostic Commands**

ECHO
GET TIME
GET DATE
GET TYPE
GET SERVER
GET REDUNDANTSERVER
GET LOGGING
GET LOGLEVEL
GET EMAIL
GET SMTP
GET MEMTRIM
GET DISPOVERRIDE
GET MAXOVERRIDE
GET INTERVAL
GET MAXADJUST
GET MAXDISPERSE
GET TIMEOUT
GET ADMINS

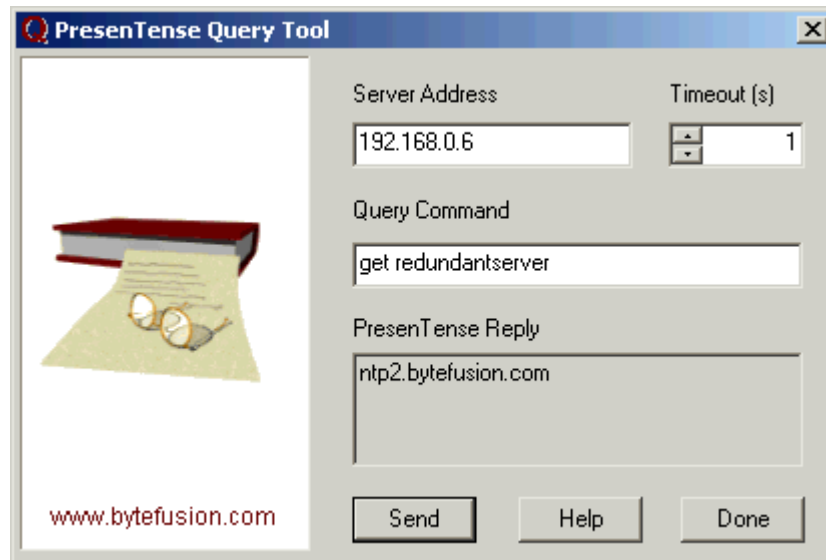
- **Control Commands**

SET TIME
SET DATE
SET TYPE
SET SERVERIP
SET REDUNDANTSERVERIP
SET SERVERNAME
SET REDUNDANTSERVERNAME
SET LOGGING
SET LOGLEVEL
SET EMAIL
SET SMTP
SET MEMTRIM
SET DISPOVERRIDE
SET MAXOVERRIDE
SET INTERVAL
SET MAXADJUST

[SET MAXDISPERSE](#)
[SET TIMEOUT](#)
[SET ADMIN](#)
[SET DELADMIN](#)
[RECYCLE](#)
[SYNC](#)

1.2 Basic Usage

To query operating parameters of a Presentense server / client installed on your network simply enter it's IP address or DNS host name in the **Server Address** field, enter your query string in the **Query Command** field as shown below, and press **Send**. If Presentense is running on the host specified in the server address field, the reply will appear in the **Presentense Reply** pane. See [Command Dictionary](#) for an overview of allowable query strings.



2 Diagnostic

2.1 echo

- **Syntax :**
ECHO <argument>
- **Parameters :**
Any string value
- **Returns :**
Echoes argument.

Use this command to verify connectivity to the client and determine remote operating system.

Example: echo hi

Returns "hi" on PresenTense for Windows NT or
"98 hi" on Windows 95/98.

2.2 get time

- **Syntax :**

GET TIME

- **Parameters :**

none

- **Returns :**

Returns the time at the PresenTense client / server

2.3 get date

- **Syntax :**

GET DATE

- **Parameters :**

none

- **Returns :**

Returns the date at the PresenTense client / server

2.4 get type

- **Syntax :**

GET TYPE

- **Parameters :**

none

- **Returns :**

Returns the type of server the PresenTense client / server presently synchronizes to.
Possible values are ntp, udpt, and tcpt. The value ntp includes snp.

2.5 get server

- **Syntax :**

GET SERVER

- **Parameters :**

none

- **Returns :**

Returns the name or IP address of the server the PresenTense client / server presently synchronizes to.

2.6 get redundantserver

- **Syntax :**

GET REDUNDANTSERVER

- **Parameters :**

none

- **Returns :**

Returns the name or IP address of the fail over server the PresenTense client / server presently synchronizes to.

2.7 get logging

- **Syntax :**

GET LOGGING

- **Parameters :**

none

- **Returns :**

Returns ENABLED if event logging is presently enabled on the PresenTense client / server, otherwise returns DISABLED.

2.8 get loglevel

- **Syntax :**

GET LOGLEVEL

- **Parameters :**

none

- **Returns :**

Returns the numeric identifier for the loglevel - valid only if logging is enabled. Possible values are:

1 = minimal
2 = detailed
3 = errors only

2.9 get email

- **Syntax :**

GET EMAIL

- **Parameters :**

none

- **Returns :**

Returns the administrator email address address Presentense uses to report critical error messages

2.10 get smtp

- **Syntax :**

GET SMTP

- **Parameters :**

none

- **Returns :**

Returns the address of the SMTP server used to send administrator error messages

2.11 get memtrim

- **Syntax :**

GET MEMTRIM

- **Parameters :**

none

- **Returns :**

Returns the setting for memory management. Possible values are AGRESSIVE and MODERATE.

2.12 get dispoverride

- **Syntax :**

GET DISPOVERRIDE

- **Parameters :**

none

- **Returns :**

Returns "YES" if maximum root dispersion override is enabled, otherwise returns "NO".

2.13 get maxoverride

- **Syntax :**

GET MAXOVERRIDE

- **Parameters :**

none

- **Returns :**

Returns "YES" if maximum clock adjustment override is enabled, otherwise returns "NO".

2.14 get interval

- **Syntax :**

GET INTERVAL

- **Parameters :**

none

- **Returns :**

Returns the polling rate in seconds. This value indicates how often the client synchronizes to the time server.

2.15 get maxadjust

- **Syntax :**

GET MAXADJUST

- **Parameters :**

none

- **Returns :**

Returns the maximum number of seconds by which the client may adjust the system clock. This is a safety mechanism to prevent "rogue" server time stamps from destabilizing the system.

2.16 get maxdisperse

- **Syntax :**

GET MAXDISPERSE

- **Parameters :**

none

- **Returns :**

Returns the maximum root dispersion in milliseconds (nominal error at the time server) that the client will accept.

2.17 get timeout

- **Syntax :**

GET TIMEOUT

- **Parameters :**

none

- **Returns :**

Returns the network timeout in seconds - how long Presentense will wait for a server reply.

2.18 get admins

- **Syntax :**

GET ADMINS

- **Parameters :**

none

- **Returns :**

Returns a list of IP addresses representing the administrators that are allowed to make changes to the operating parameters on this client.

3 Control

3.1 set time

- **Syntax :**

SET TIME <hh:mm:ss>

- **Parameters :**

Time in 24 hour format. hh:mm:ss

- **Comments :**

Sets the system time at the client in 24 hour time format.
Example: set time 23:15:30 sets the time to 11:15pm and 30 seconds.

- **Returns :**

SUCCESS or ERROR

3.2 set date

- **Syntax :**

SET DATE <yyyy:mm:dd>

- **Parameters :**

Date as four digit year, month, day

- **Comments :**

Sets the system date at the client.
Example: set date 1999:02:22 sets the date to February 22nd, 1999.

- **Returns :**

SUCCESS or ERROR

3.3 set type

- **Syntax :**

SET TYPE udptime|tcptime|ntptime

- **Parameters :**

True time source time. Possible values are the string literals :

udptime or
tcptime or

ntpdate

Date as four digit year, month, day

- **Comments :**

Sets the time server protocol type

Example: set type ntpdate configures Presentense to synchronize to a server that operates on the ntp/sntp protocol suite.

This setting does not effect the type of time service offered by Presentense server.

- **Returns :**

SUCCESS or ERROR

3.4 set serverip

- **Syntax :**

SET SERVERIP <ip address of new time server>

- **Parameters :**

IP V4.0 IP address

- **Comments :**

Sets a new time server by IP address.

- **Returns :**

SUCCESS or ERROR

3.5 set redundantserverip

- **Syntax :**

SET REDUNTANTSERVERIP <ip address of new time server>

- **Parameters :**

IP V4.0 IP address

- **Comments :**

Sets a new fail-over time server by IP address.

- **Returns :**

SUCCESS or ERROR

3.6 **set servername**

- **Syntax :**

SET SERVERNAME <hostname>

- **Parameters :**

Fully qualified domain name of new time source

- **Comments :**

Sets a new time server by dns name. Overrides [SERVERIP](#)

- **Returns :**

SUCCESS or ERROR

3.7 **set redundantservername**

- **Syntax :**

SET REDUNDANTSERVERNAME <hostname>

- **Parameters :**

Fully qualified domain name of new fail-over time source

- **Comments :**

Sets a new fail-over time server by dns name. Overrides [REDUNDANTSERVERIP](#)

- **Returns :**

SUCCESS or ERROR

3.8 **set logging**

- **Syntax :**

SET LOGGING yes | no

- **Parameters :**

String literals
yes or
no

- **Comments :**

Enables or disables event logging on Presentense.

- **Returns :**

SUCCESS or ERROR

3.9 set loglevel

- **Syntax :**

SET LOGLEVEL 1|2|3

- **Parameters :**

Possible values : 1,2 or 3

- **Comments :**

Sets the log level on the client.
Valid only if logging is enabled. Possible values are:

1 = minimal
2 = detailed
3 = errors only

- **Returns :**

SUCCESS or ERROR

3.10 set email

- **Syntax :**

SET EMAIL <email address>

- **Parameters :**

email address

- **Comments :**

Sets the administrator email address to receive critical error messages.

- **Returns :**

SUCCESS or ERROR

3.11 set smtp

- **Syntax :**

SET SMTP <IP address or DNS host name>

- **Parameters :**

IPV4 IP address or fully qualified DNS host name of SMTP server to use in mailing error messages to the administrator

- **Comments :**

none

- **Returns :**

SUCCESS or ERROR

3.12 set memtrim

- **Syntax :**

SET MEMTRIM <moderate | aggressive>

- **Parameters :**

String literal MODERATE or AGGRESSIVE.

- **Comments :**

Sets memory management policy. AGGRESSIVE results in a smaller memory footprint but higher number of swaps to virtual memory on disk.

- **Returns :**

SUCCESS or ERROR

3.13 set dispooverride

- **Syntax :**

SET DISPOVERRIDE <yes | no>

- **Parameters :**

String literal YES or NO.

- **Comments :**

Enables / disables maximum root dispersion override.

- **Returns :**

SUCCESS or ERROR

3.14 set maxoverride

- **Syntax :**

SET MAXOVERRIDE <yes | no>

- **Parameters :**

String literal YES or NO.

- **Comments :**

Enables / disables maximum clock adjustment override.

- **Returns :**

SUCCESS or ERROR

3.15 set interval

- **Syntax :**

SET INTERVAL <seconds>

- **Parameters :**

Number of seconds

- **Comments :**

Sets the polling rate in seconds. This value determines how often the client synchronizes to the time server.

- **Returns :**

SUCCESS or ERROR

3.16 set maxadjust

- **Syntax :**

SET MAXADJUST <seconds>

- **Parameters :**

Number of seconds

- **Comments :**

Sets the maximum number of seconds by which the client may adjust the system clock. This is a safety mechanism to prevent "rogue" server time stamps from destabilizing the system.

- **Returns :**

SUCCESS or ERROR

3.17 set maxdisperse

- **Syntax :**

SET MAXDISPERSE <milliseconds>

- **Parameters :**

Number of milliseconds

- **Comments :**

Sets the maximum root dispersion in milliseconds (nominal error at the time server) that the client will accept.

- **Returns :**

SUCCESS or ERROR

3.18 set timeout

- **Syntax :**

SET TIMEOUT <seconds>

- **Parameters :**

Number of seconds

- **Comments :**

Returns the network timeout in seconds - how long the client will wait for a server reply.

- **Returns :**

SUCCESS or ERROR

3.19 set admin

- **Syntax :**

SET ADMIN <ip address>

- **Parameters :**

IPV4 IP Address

- **Comments :**

Adds an IP address to the list of administrators permitted to make configuration changes on this Presentense time server / client.

- **Returns :**

SUCCESS or ERROR

3.20 set deladmin

- **Syntax :**

SET DELADMIN <ip address>

- **Parameters :**

IPV4 IP Address

- **Comments :**

Deletes an IP address from the list of administrators permitted to make configuration changes on this Presentense time client / server.

- **Returns :**

SUCCESS or ERROR

3.21 recycle

- **Syntax :**

RECYCLE

- **Parameters :**

none

- **Comments :**

Restart the service, re-reading registry settings.
This is necessary after changing any of the
operating parameters.

- **Returns :**

SERVICE RECYCLED
-no reply-

3.22 sync

- **Syntax :**

SYNC

- **Parameters :**

none

- **Comments :**

Synchronize to true time source now.

- **Returns :**

NTPSNTP ACK
TCP ACK
UDP ACK
-no reply-

4 About

4.1 About PTQuery



PTQuery
Version 1.2
Copyright © 1999-2004, Bytefusion Ltd.
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4.2 About Bytefusion Ltd.



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