



# **MONITORING SOCKET INTERFACE 4.4**

## Specification

**April 2007**

**What is the Monitoring Socket Interface? . . . . . 3**

Further reading . . . . . 3

**Commands . . . . . 4**

*login username password . . . . . 4*

*reqt. . . . . 4*

*disc . . . . . 4*

*exec. . . . . 4*

*list . . . . . 4*

*tplt . . . . . 4*

*help . . . . . 5*

*quit. . . . . 5*

**Responses . . . . . 6**

**Example session output . . . . . 8**

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# 1 What is the Monitoring Socket Interface?

Caplin's Monitoring Socket Interface is a socket-based method of obtaining data from the DataSource monitoring system. The protocol used is similar to the standard internet protocols (smtp/ftp/pop3), simplifying basic parsing of the protocol.

## 1.1 Further reading

For further details on monitoring the Caplin architecture, please refer to the companion **Management and Monitoring Overview** guide.

For further details on the monitorable values and management features available, please refer to the companion JMX Plug-In JavaDoc.

## 2 Commands

All commands should be case insensitive and not be preceded with a number. The following tokens should be reserved.

<b>login username password</b>	Login the user identified by the specified name and password (space-separated).
<b>reqt</b>	<p>Request a property of an item of data. Requests can take two forms:</p> <ul style="list-style-type: none"><li>❖ a template name and a primary key—all non-active values are published and all subsequent updates are sent out, however many occur;</li><li>❖ a template name, key and a property name—only the one individual update is published. The update notification state does not change.</li></ul>
<b>disc</b>	Stop updates for an item of data.
<b>exec</b>	Execute a method. Methods are operations that can be performed on a monitorable object.
<b>list</b>	Obtains a list of all primary keys. This outputs the template name and the primary key.

For example:

```
list
230- rttpd:peers 6
230- rttpd:peers 5
230- rttpd:peers 4
230- rttpd:peers 3
230- rttpd:peers 2
230- rttpd:peers 1
230- rttpd:peers 0
230  End of list
```

<b>tplt</b>	Lists the contents of a template. A template consists of a space-separated list of the template name, property name.
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An optional third column contains the word "METHOD" or "ACTIVE" as is appropriate. METHOD indicates the property represents an operation that can be performed on an object; ACTIVE indicates that only one update is returned for a property and relation.

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For example:

```
template rttpd:peers
270- rttpd:peers localid
270- rttpd:peers localname
270- rttpd:peers remoteid
270- rttpd:peers remotename
270- rttpd:peers state
270- rttpd:peers remote-addresses
270- rttpd:peers remote-ports
270- rttpd:peers remoteport
270- rttpd:peers remoteaddr
270 End of definition
```

**help**

Display a list of commands and abbreviated help.

**quit**

Disconnect.

### 3 Responses

All output is in plain text and each line terminated by `\r\n`.

Code	Meaning
214	Help
220	Initial greeting
221	Disconnect
230	Successful login
240	Monitorable item created
241	Monitorable item deleted
250	Response
260	Broadcast update
261	Active data follows
262	Method data follows
270	Template
280	Add relationship
281	Delete relationship
290	Subscription added
291	Subscription removed
500	Syntax error, unrecognised command
501	Syntax error in parameters/arguments
502	Command not implemented
530	Login failure.

---

Code	Meaning
550	Error response
562	Method error

All continuations will be marked with a "-" following the number. The last line in a response will have a space following the number.

## 4 Example session output

```
220 dylan rtthpd monitoring server 3.5.0a; Tue Jun 15 13:31:25 2004
login admin admin
230 User admin logged in
list
240-rtthpd.server.logging event_log
240-rtthpd.cache.object /SYSTEM/NODE-0
240-rtthpd.server.logging object_log
240-rtthpd.server.logging request_log
240-rtthpd.server.logging mftp_log
240-rtthpd.cache.object /
240-rtthpd.cache.object /SYSTEM/NODE-0/INFO
240-rtthpd.server.liberator SINGLETON
240-rtthpd.cluster.node 0
240-rtthpd.server.licence SINGLETON
240-rtthpd.server.auth SINGLETON
240-rtthpd.server.system SINGLETON
240-rtthpd.server.logging session_log
240-rtthpd.server.datasrc SINGLETON
240-rtthpd.server.logging http_error_log
240-rtthpd.cache.object /SYSTEM
240-rtthpd.server.peers 6
240-rtthpd.server.peers 5
240-rtthpd.server.peers 4
240-rtthpd.server.peers 3
240-rtthpd.server.peers 2
240-rtthpd.server.peers 1
240-rtthpd.server.peers 0
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-4
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-5
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-6
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-0
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-1
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-2
240-rtthpd.cache.object /SYSTEM/NODE-0/SRC-3
```



```
240-rtttd.server.logging http_access_log
240-rtttd.connections.http SINGLETON
240-rtttd.server.logging packet_log
240-rtttd.cache.object /SYSTEM/LICENSE
240-rtttd.cache.object /SYSTEM/INFO
240-rtttd.connections.direct SINGLETON
240 End of list
tplt rtttd.server.peers
270-rtttd.server.peers peer-number
270-rtttd.server.peers local-id
270-rtttd.server.peers local-name
270-rtttd.server.peers remote-id
270-rtttd.server.peers remote-name
270-rtttd.server.peers state
270-rtttd.server.peers configured-addresses
270-rtttd.server.peers configured-ports
270-rtttd.server.peers connected-port
270-rtttd.server.peers connected-address
270-rtttd.server.peers recent-events ACTIVE
270-rtttd.server.peers peer-reconnect METHOD
270-rtttd.server.peers messages-written-count
270-rtttd.server.peers messages-read-count
270-rtttd.server.peers last-update-time
270-rtttd.server.peers failed-connection-count
270-rtttd.server.peers server-relation RELATION rtttd.server.datasrc
270-rtttd.server.peers msgq RELATION rtttd.server.msgq
270 End of definition
reqt rtttd.server.peers 0
260 rtttd.server.peers 0 peer-number 0
260 rtttd.server.peers 0 local-id 0
260 rtttd.server.peers 0 local-name rtttd-dylan
260 rtttd.server.peers 0 remote-id 1
260 rtttd.server.peers 0 remote-name src-0
260 rtttd.server.peers 0 state DOWN
260 rtttd.server.peers 0 connected-port 0
260 rtttd.server.peers 0 connected-address -
262 rtttd.server.peers 0 peer-reconnect -
260 rtttd.server.peers 0 messages-written-count 0
260 rtttd.server.peers 0 messages-read-count 0
260 rtttd.server.peers 0 last-update-time 0
260 rtttd.server.peers 0 failed-connection-count 0
quit
221 Bye bye
```



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