

CAPLIN

Caplin Xaqua 1.0

Monitoring Socket Interface Specification

December 2009

CONFIDENTIAL

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1 Preface

1.1 What this document contains

This document describes the commands and responses of the Caplin Xaqua Monitoring Socket Interface.

About Caplin document formats

This document is supplied in three formats:

- ◆ Portable document format (*.PDF* file), which you can read on-line using a suitable PDF reader such as Adobe Reader®. This version of the document is formatted as a printable manual; you can print it from the PDF reader.
- ◆ Web pages (*.HTML* files), which you can read on-line using a web browser. To read the web version of the document navigate to the *HTMLDoc_m_n* folder and open the file *index.html*.
- ◆ Microsoft HTML Help (*.CHM* file), which is an HTML format contained in a single file. To read a *.CHM* file just open it – no web browser is needed.

For the best reading experience

On the machine where your browser or PDF reader runs, install the following Microsoft Windows® fonts: Arial, Courier New, Times New Roman, Tahoma. You must have a suitable Microsoft license to use these fonts.

Restrictions on viewing *.CHM* files

You can only read *.CHM* files from Microsoft Windows.

Microsoft Windows security restrictions may prevent you from viewing the content of *.CHM* files that are located on network drives. To fix this either copy the file to a local hard drive on your PC (for example the Desktop), or ask your System Administrator to grant access to the file across the network. For more information see the Microsoft knowledge base article at <http://support.microsoft.com/kb/896054/>.

1.2 Who should read this document

This document is intended for is intended for people who want to monitor and manage Caplin Xaqua components using the Caplin Xaqua Monitoring Socket Interface (sockmon).

1.3 Related documents

- ◆ **Caplin Xaqua: Monitoring And Management Overview**
Describes the Caplin Xaqua Management and Monitoring solution and its place in the Caplin Xaqua architecture.
- ◆ **Caplin Xaqua: Customizing The XMC**
Describes how to customize the Caplin Xaqua Management Console.
- ◆ **Caplin Xaqua: Getting Started With The XMC**
Describes how to configure the Caplin Xaqua Management Console.
- ◆ **Caplin Xaqua Management Console: API Reference**
The API reference documentation provided with the Caplin Xaqua Management Console.
- ◆ **Caplin Liberator: Administration Guide**
Describes how to install and configure Caplin Liberator.

1.4 Typographical conventions

The following typographical conventions are used to identify particular elements within the text.

<i>Type</i>	<i>Uses</i>
aMethod	Function or method name
<i>aParameter</i>	Parameter or variable name
<i>/AFolder/Afile.txt</i>	File names, folders and directories
<code>Some code;</code>	Program output and code examples
The <code>value=10</code> attribute is...	Code fragment in line with normal text
Some text in a dialog box	Dialog box output
Something typed in	User input – things you type at the computer keyboard
XYZ Product Overview	Document name
◆	Information bullet point
■	Action bullet point – an action you should perform

Note: Important Notes are enclosed within a box like this.
Please pay particular attention to these points to ensure proper configuration and operation of the solution.

Tip: Useful information is enclosed within a box like this.
Use these points to find out where to get more help on a topic.

1.5 Feedback

Customer feedback can only improve the quality of our product documentation, and we would welcome any comments, criticisms or suggestions you may have regarding this document.

Please email your feedback to documentation@caplin.com.

1.6 Acknowledgments

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2 The Monitoring Socket Interface

The Caplin Xaqua 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.

3 Commands

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

login username password

Login the user identified by the specified name and password (space-separated).

reqt

Request a property of an item of data. Requests can take two forms:

- ◆ a template name and a primary key—all non-active values are published and all subsequent updates are sent out, however many occur;
- ◆ a template name, key and a property name—only the one individual update is published. The update notification state does not change.

disc

Stop updates for an item of data.

exec

Execute a method. Methods are operations that can be performed on a monitorable object.

list

Obtains a list of all primary keys. This outputs the template name and the primary key.

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
```

tplt

Lists the contents of a template. A template consists of a space-separated list of the template name, property name.

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.

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.

4 Responses

All output is in plain text and each line is 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.
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.

5 Example session output

```
220 dylan rttpd monitoring server 3.5.0a; Tue Jun 15 13:31:25 2004
login admin admin
230 User admin logged in
list
240-rtttd.server.logging event_log
240-rtttd.cache.object /SYSTEM/NODE-0
240-rtttd.server.logging object_log
240-rtttd.server.logging request_log
240-rtttd.server.logging mftp_log
240-rtttd.cache.object /
240-rtttd.cache.object /SYSTEM/NODE-0/INFO
240-rtttd.server.liberator SINGLETON
240-rtttd.cluster.node 0
240-rtttd.server.licence SINGLETON
240-rtttd.server.auth SINGLETON
240-rtttd.server.system SINGLETON
240-rtttd.server.logging session_log
240-rtttd.server.datasrc SINGLETON
240-rtttd.server.logging http_error_log
240-rtttd.cache.object /SYSTEM
240-rtttd.server.peers 6
240-rtttd.server.peers 5
240-rtttd.server.peers 4
240-rtttd.server.peers 3
240-rtttd.server.peers 2
240-rtttd.server.peers 1
240-rtttd.server.peers 0
240-rtttd.cache.object /SYSTEM/NODE-0/SRC-4
240-rtttd.cache.object /SYSTEM/NODE-0/SRC-5
240-rtttd.cache.object /SYSTEM/NODE-0/SRC-6
240-rtttd.cache.object /SYSTEM/NODE-0/SRC-0
240-rtttd.cache.object /SYSTEM/NODE-0/SRC-1
240-rtttd.cache.object /SYSTEM/NODE-0/SRC-2
240-rtttd.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 rttpd.server.peers 0
260 rttpd.server.peers 0 peer-number 0
260 rttpd.server.peers 0 local-id 0
260 rttpd.server.peers 0 local-name rttpd-dylan
260 rttpd.server.peers 0 remote-id 1
260 rttpd.server.peers 0 remote-name src-0
260 rttpd.server.peers 0 state DOWN
260 rttpd.server.peers 0 connected-port 0
260 rttpd.server.peers 0 connected-address -
262 rttpd.server.peers 0 peer-reconnect -
260 rttpd.server.peers 0 messages-written-count 0
260 rttpd.server.peers 0 messages-read-count 0
260 rttpd.server.peers 0 last-update-time 0
260 rttpd.server.peers 0 failed-connection-count 0
quit
221 Bye bye
```

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