

Operational Logging - Status Update - Functional Specification

Functional Specification

This page documents the functional specification for the status updates improvement to the Java Broker.

Log Messages

This is the list of initial status messages that the broker will be configured to produce at for status logging.

These messages will be parameterised as shown and will be accessed via an interface so that we need only maintain the text in a single location. While the messages here do not show these standardised messages will also allow for easy internationalisation.

Each section includes the expected full format of a log message. So taking the *Broker* logging as an example an entry in the log file for the startup of a 0.6 release broker would be:

```
2009-07-09 15:50:20 +0100 MESSAGE BRK-1001 : Startup : Version 0.6 Build: exported
```

The expected format is shown at the start of each section in *italics*. This is then followed by the list of messages that can be logged. This formatting (as fully defined [here](#)) is the reason that each log message that follows does not need to contain a lot of details. For example, when logging the creation of a Channel you would want to know more details than just the prefetch count hence when the message is logged it would look like this:

```
2009-07-09 15:50:20 +0100 MESSAGE [ con:1(guest@127.0.0.1/test)/ch:2 ] CHN-1001 : Create : Prefetch 400
```

Broker

<DATETIME> MESSAGE <Message>

BRK-1001 : Startup : Version: <Version> Build: <Build>

BRK-1002 : Starting : Listening on <Transport> port <Port>

BRK-1003 : Shutting down : <Transport> port <Port>

BRK-1004 : Ready

BRK-1005 : Stopped

BRK-1006 : Using configuration : <path>

BRK-1007 : Using logging configuration : <path>

ManagementConsole

<DATETIME> MESSAGE <Message>

MNG-1001 : Startup

MNG-1002 : Starting : <service> : Listening on port <Port>

MNG-1003 : Shutting down : <service> : port <Port>

MNG-1004 : Ready

MNG-1005 : Stopped

MNG-1006 : Using SSL Keystore : <path>

VirtualHost

<DATETIME> MESSAGE [vh:<name>] <Message>

VHT-1001 : Created : <name>

VHT-1002 : Closed

MessageStore

<DATETIME> MESSAGE [vh:<name>] <Message>

MST-1001 : Created : <name>

MST-1002 : Store location : <path>

MST-1003 : Closed

MST-1004 : Recovery Start [: <queue.name>]

MST-1005 : Recovered <count> messages for queue <queue.name>

MST-1006 : Recovery Complete [: <queue.name>]

Connection

<DATETIME> MESSAGE [con:1(guest@127.0.0.1/test)] <Message>

CON-1001 : Open : Client ID <id> : Protocol Version : <version>

CON-1002 : Close

Channel

<DATETIME> MESSAGE [con:1(guest@127.0.0.1/test)/ch:2] <Message>

CHN-1001 : Create : Prefetch <count>

CHN-1002 : Flow <value>

CHN-1003 : Close

Queue

<DATETIME> MESSAGE [con:1(guest@127.0.0.1/test)/ch:2/qu(myqueue)] <Message>
QUE-1001 : Create : [AutoDelete] [Durable|Transient] [Priority:<levels>] Owner:<name>
QUE-1002 : Deleted

Exchange

<DATETIME> MESSAGE [con:1(guest@127.0.0.1/test)/ch:2/ex(amq.direct)] <Message>
EXH-1001 : Create : [Durable] Type:<value> Name:<value>
EXH-1002 : Deleted

Binding

<DATETIME> MESSAGE [con:1(guest@127.0.0.1/test)/ch:2/ex(amq.direct)/qu(myQueue)/rk(myQueue)] <Message>
BND-1001 : Create [: Arguments : <key=value>]
BND-1002 : Deleted

Subscription

<DATETIME> MESSAGE [con:1(guest@127.0.0.1/test)/ch:2/sub:1:qu(myqueue)] <Message>
SUB-1001 : Create : [Durable] [Arguments : <key=value>]
SUB-1002 : Close

Comments

ID	by	Summary	Status
1	Robbie	MC has two ports one for RMI Registry, one for RMI ConnectorServer	I've parameterized startup/shutdown to take a service value. So I'd expect two entries in the log for our current MC
2	Robbie	MC IDs are not unique	fixed