```
        channels            [0] PrioritisedChannelList,
        load1               [1] INTEGER DEFAULT 0,
        load2               [2] INTEGER DEFAULT 0,
        currchans           [3] INTEGER DEFAULT 0,
        maxchans            [4] INTEGER DEFAULT 0}
                                                                        400
PrioritisedChannelList ::= SEQUENCE OF PrioritisedChannel

PrioritisedChannel ::= SEQUENCE {
        channel    ChannelInfo,
        priority Priority }

ChannelInfo ::= SEQUENCE {
        channel             [0] Channel,
        channelDescription [1] PrintableString,
        oldestMessage       [2] UTCTime,                                410
        numberMessages      [3] INTEGER,    -- not including DRs
        volumeMessages      [4] INTEGER,        -- bytes
        numberActiveProcesses [5] INTEGER,
        status              [6] ProcStatus,
        numberReports   [7] INTEGER,
        direction           [8] BITSTRING {
                inbound (0),        -- supports inbound traffic
                outbound (1)        -- supports outbound traffic
                                    -- both bits on => does both
                                    -- both bits off is internal        420
                },
        chantype            [9] ENUMERATED {
                mta (0),            -- is an MTA level channel
                mts (1),            -- is an MTS level channel
                internal (2),       -- is an internal channel (formatter etc)
                passive (3)         -- responding channel?
                },
        maxprocs            [10] INTEGER DEFAULT 0,
        numberMtas          [11] INTEGER DEFAULT 0
                                                                        430
        }

MtaRead ::= SEQUENCE {
        channel Channel,
        time UTCTime OPTIONAL
        }

MsgRead ::= SEQUENCE {
        channel Channel,
        mta Mta,                                                        440
        time UTCTime OPTIONAL
        }

PrioritisedMtaList ::= SEQUENCE OF PrioritisedMta

PrioritisedMta ::= SEQUENCE {
        mta MtaInfo,
        priority Priority }

MtaInfo ::= SEQUENCE {                                                  450
        channel             [0] Channel,
        mta                 [1] Mta,
        oldestMessage       [2] UTCTime,
```

```
        numberMessage       [3] INTEGER, -- not DRs
        volumeMessages      [4] INTEGER,
        status              [5] ProcStatus,
        numberDRs           [6] INTEGER,
        active              [7] BOOLEAN DEFAULT FALSE,
        info                [8] IA5String OPTIONAL
        }                                                          460

DeliveryStatus ::= SEQUENCE OF IndividualDeliveryStatus


IndividualDeliveryStatus ::=  SEQUENCE {
        recipient [0] RecipientId,
        status      [1] ENUMERATED {
                                    -- The QMGR should treat the following
                                    -- as successful.  In the latter cases
                                    -- a DR is processed in conjuction      470
                                    -- with a different recipient
                success (0),
                successSharedDR (1),
                failureSharedDR (2),

                                    -- The next set are treated by the
                                    -- QMGR as now having to send a DR
                negativeDR (3),   -- negative DR
                positiveDR (4),     -- positive DR
                                                                   480

                                    -- the final set are different types
                                    -- of transient failure, needing
                                    -- different QMGR retry strategies
                messageFailure (5),-- temp failure on the Message (e.g.
                                    -- protocol temp reject)
                mtaFailure (6),     -- MTA failure (e.g. couldn't connect)
                mtaAndMessageFailure (7)  -- Both (e.g. connection bust)
                },
        info[2] IA5String OPTIONAL                                 490
        }


QMGRControl ::= SEQUENCE {
        op [0] QMGROp
        }

QMGROp ::= ENUMERATED {
        abort (0),
        gracefulTerminate (1),                                     500
        restart (2),            -- as if from cold
        rereadQueue (3),   -- but don't discard current information
        disableSubmission (4),  -- Don't let processes submit
        enableSubmission (5),
        disableAll (6),
        enableAll (7),
        increasemaxchans(8),
        decreasemaxchans(9) }

                                                                   510
QmgrStatus ::= SEQUENCE {
        boottime            UTCTime,
```

```
        messagesIn          INTEGER,
        messagesOut         INTEGER,
        addrIn              INTEGER,
        addrOut             INTEGER,
        opsPerSec           INTEGER,        -- * 100
        runnableChans       INTEGER,        -- * 100
        msgsInPerSec        INTEGER,        -- * 100
        msgsOutPerSec       INTEGER,        -- * 100                    520
        maxChans            INTEGER,
        currChans           INTEGER,
        totalMsgs           INTEGER,
        totalVolume         INTEGER,
        totalDrs            INTEGER
        }
END
```

Figure F.1: QMGR ROS

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