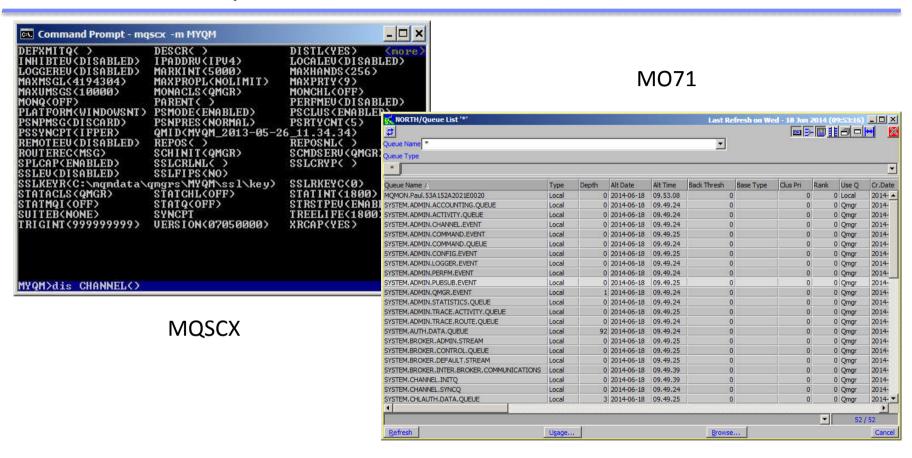
MQGem Product Overview





Paul Clarke www.mqgem.com support@mqgem.com

Agenda



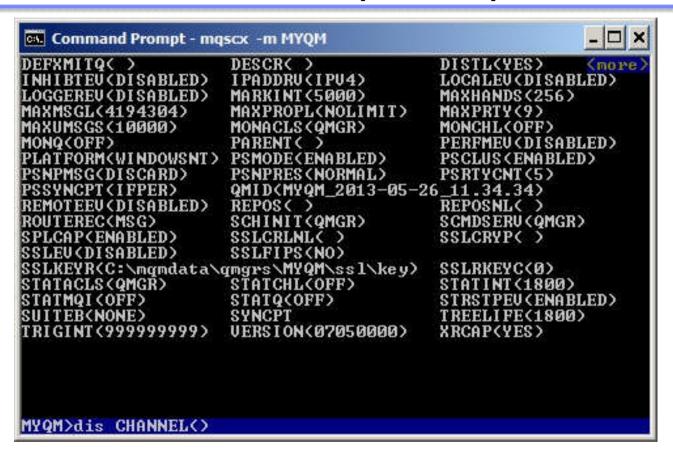
MQSCX

- Feature Overview
- New features

• MO71

- Feature Overview
- New features
- Demo

MQSCX (7.5.0)





Overview



- Like RUNMQSC, but with so much more
 - Can be used interactively or in background
 - Fills many of the 'holes' in RUNMQSC
 - Runs as local or client bindings
 - More granular security
 - Less frustrating to use
 - More efficient and timely
 - Much Greater capabilities

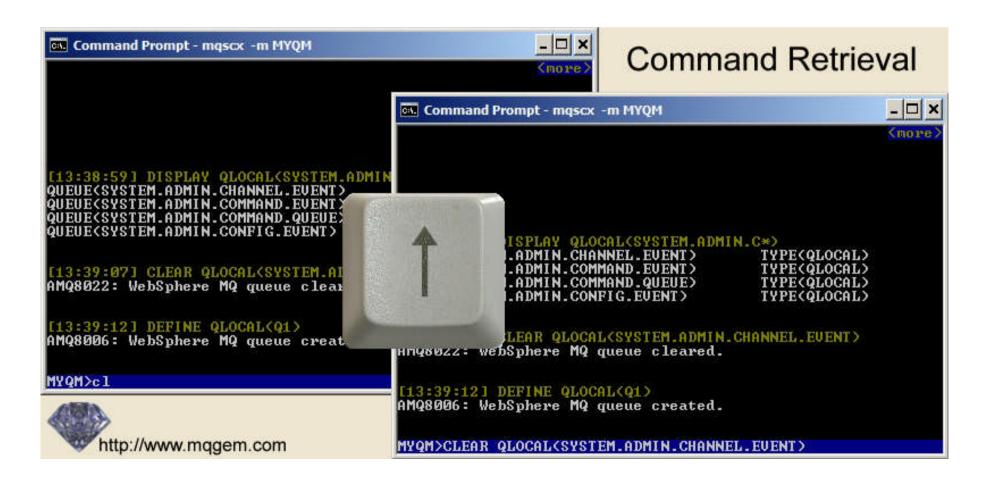
```
DEFXMITQ()
DESCR()
INHIBTEU(DISABLED) IPADDRU(IPU4)
LOGGEREU(DISABLED)
MARKINT(5000)
MAXHANDS(256)
MAXMSGL(4194304)
MAXPROPL(NOLIMIT)
MAXPRTY(9)
MAXUMSGS(10000)
MONACLS(QMGR)
MONCHL(OFF)
MONQ(OFF)
PARENT()
PERFMEU(DISABLED)
PSNPMSG(DISCARD)
PSNPRES(NORMAL)
PSRTYCNT(5)
PSSYNCPT(IFPER)
QMID(MYQM_2013-05-26_11.34.34)
REMOTEEU(DISABLED)
REPOS()
ROUTEREC(MSG)
SSLCRLML()
SSLCRYP()
SSLEU(DISABLED)
SSLFIPS(NO)
SSLKEYR(C:\magmdata\qmgrs\MYQM\ssl\key)
SSLKEYR(C:\magmdata\qmgrs\MYQM\ssl\key)
STATACLS(QMGR)
STATCLS(QMGR)
STATCLS(QMGR)
STATCLS(OFF)
STATIVI(100F)
STATIVI(100F)
STATIVI(100F)
STATIVI(100F)
TRIGINT(999999999)
UERSION(07050000)

MYQM>dis CHANNEL()
```

Command Retrieval



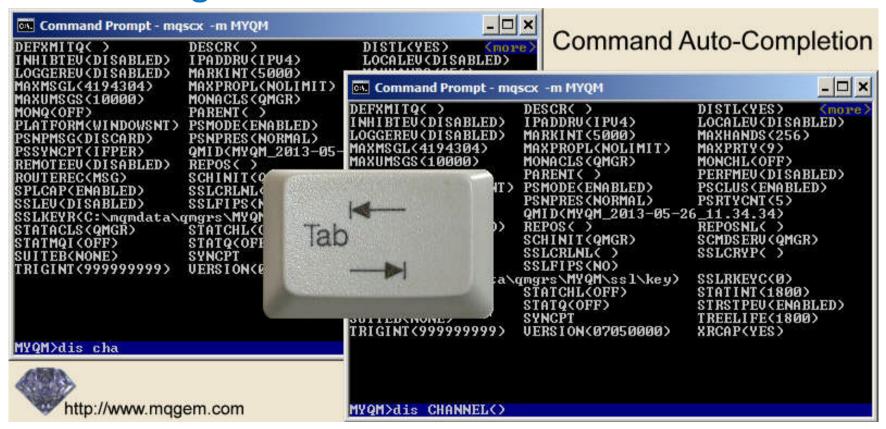
- What is more annoying than no command retrieval?
- MQSCX allows generic and targeted retrieval.
- Persisted across re-starts



Command Auto-Completion



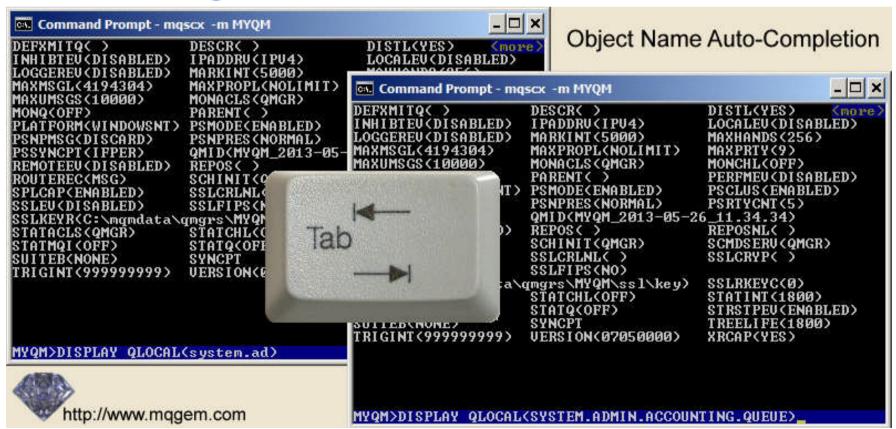
- Pressing 'Tab' will tab through available values
- Forwards and backwards supported
- Tab through commands, attributes or values
- Tab through like-named items



Object name completion



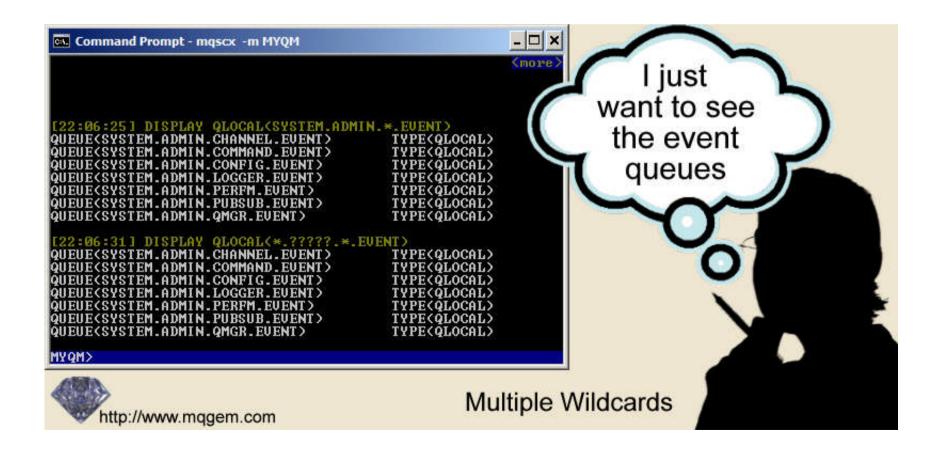
- Pressing 'Tab' will tab through available values
- Forwards and backwards supported
- Tab through like-named items



Multiple Wildcards



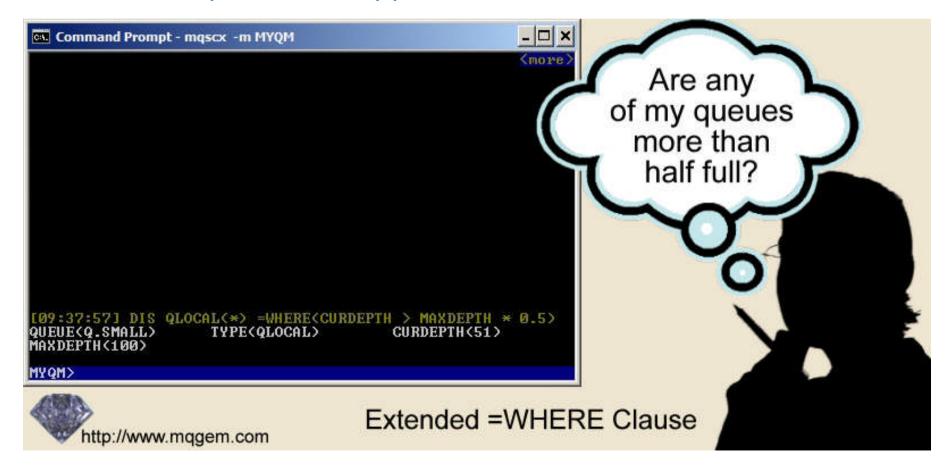
- Wildcards can be specified anywhere
 - Wildcards '*' and '?' supported



Extended WHERE clause



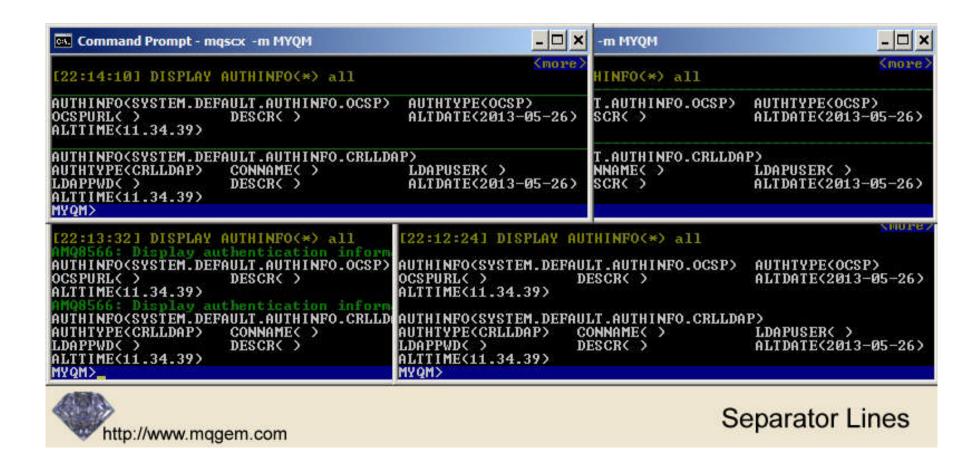
- Much more flexibility than standard WHERE
- Multiple expressions supported
- Greater list of operators
- Numeric expressions supported



Separator Lines



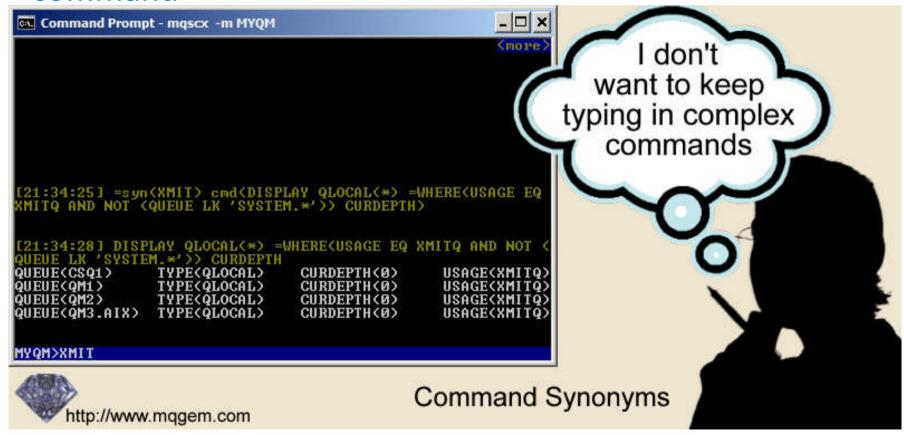
- Helps see the wood from the trees
- Can use significantly less screen real estate



Synonyms



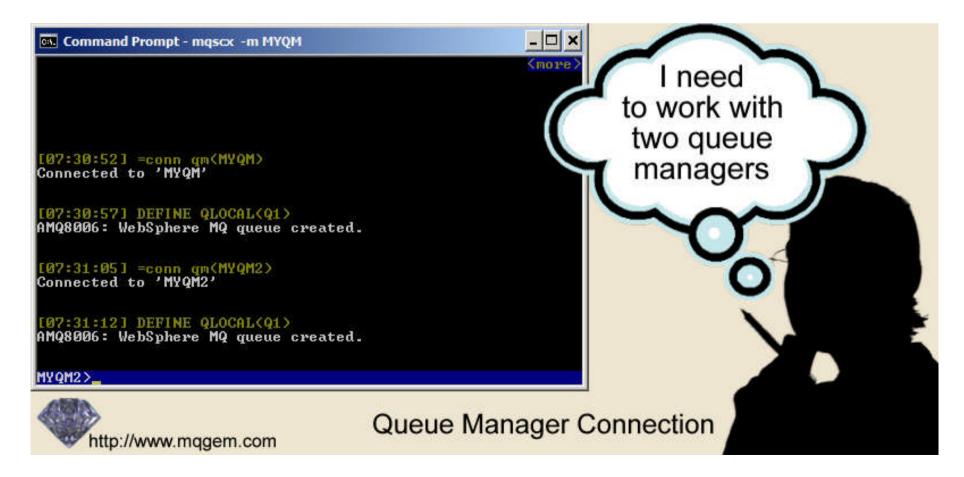
- Saves laborious typing
- Reduces the chances of making mistakes
- Can go further even define a single keystroke as a command



Connecting and Disconnecting



- Allows connecting and disconnecting
 - All within same script
 - Connect as client or local bindings
 - Prompt changes depending on connected Queue Manager



FIND clause



- Simpler way of just filtering by text
 - Text matched against any of the response
 - Much easier to get right than WHERE clause



Plus much more....



- Colour configuration
- Multiple commands on a single line
- Display totals
- Full prompt configuration
- Search through responses
- IMPORT other command files
 - Which can also IMPORT command files

•

MQSCX – New Features (Beta)

```
Command Prompt - mgscx -m MYQM
DEFXMITQ( )
                     DESCR( )
                                          DISTL(YES)
                                                         (more)
    BTEU(DISABLED)
                     IPADDRU(IPU4)
                                          LOCALEU (DISABLED)
LOGGEREU (DISABLED)
                     MARKINT (5000)
                                          MAXHANDS (256)
MAXMSGL(4194304)
                     MAXPROPL(NOLIMIT)
MAXUMSGS(10000)
                     MONACLS (QMGR)
                     PARENT( )
                                          PERFMEU(DISABLED)
PLATFORM(WINDOWSNT) PSMODE(ENABLED)
                                          PSCLUS (ENABLED)
PSNPMSG(DISCARD)
                     PSNPRES(NORMAL)
                     QMID(MYQM_2013-05-26 11.34.34)
                     REPOS()
                                          REPOSNL( )
  MOTEEU(DISABLED)
                                          SCMDSERU (QMGR)
                     SCHINIT (QMGR)
   CAP(ENABLED)
                     SSLCRLNL( )
                                          SSLCRYP( )
                     SSLFIPS(NO)
SSLEU(DISABLED)
SSLKEYR(C:\mgmdata\gmgrs\MYQM\ss1\key)
                                          SSLRKEYC(0)
STATACLS(QMGR)
                     STATCHL(OFF)
                                          STATINT(1800)
                     STATQ(OFF)
STATMQI(OFF)
                                          STRSTPEU(ENABLED)
                     SYNCPT
SUITEB(NONE)
                                          TREELIFE(1800)
TRIGINT(999999999)
                     UERSION(07050000)
                                          XRCAP(YES)
MYQM>dis CHANNEL()
```



CCDT Editing



- MQSCX can be run in 'CCDT' mode
 - CLNTCONN channels can be defined, changed, deleted
 - CCDT can be created of any MQ version
 - Two CCDT files can be merged (by channel name)

```
CCDT commands directed to file 'C:\mqmdata\AMQCLCHL.TAB'

MQSCX Extended MQSC Program - Version 7.5.1

Licenced to Paul Clarke

Licence Location: Home

[11:00:19] dis chl(*) conname = where(not(channel == "SYS*"))

CHANNEL(FRED) CHLTYPE(CLNTCONN) CONNAME(localhost(1415))

CHANNEL(NTPGC1.SRU) CHLTYPE(CLNTCONN) CONNAME(LOCALHOST)

CHANNEL(X) CHLTYPE(CLNTCONN) CONNAME(198.162.45.67)

Total display responses - Received: 4 Matched: 3
```

Namelist modification



- Modifying Namelists in MQSC script is awkward
 - Have to specify all names
- MQSCX allows values to be added or removed
 - No need to know what other values are there

```
MQ Environment: 750GA - mgscx
                                                                             _ | D | X
MQSCX Extended MQSC Program - Version 7.5.1
Licenced to Paul Clarke
Licence Location: Home
Connected to 'NTPGC1'
   :13:411 dis n1(EXAMPLE) names
NAMELIST(EXAMPLE)
                                          В.
                                                              C
Total display responses - Received:1
[11:13:57] alter n1(EXAMPLE) =add(D) =rmv(B)
AMQ8551: WebSphere MQ namelist changed.
[11:14:00] dis nl(EXAMPLE) names
NAMELIST(EXAMPLE)
                    NAMES (A.
                                          C.
                                                              D>
Total display responses - Received:1
```

Control Language



- MQSC is a very static language
 - Very difficult to parse
 - No control constructs
 - Just a list of commands to execute

- MQSCX extends the language
 - Easy to process responses
 - Adds loops, if statements, list processing
 - User variables

Control Language



Extends MQSC uses enormously

- Augment or modify command responses
- Display consolidated result of multiple commands
- Perform health checking
- Perform monitoring
- Write report file of Queue Manager status
- Check objects against naming conventions
- Bulk updates
 - For example, change all objects with a particular value

Control Language 'Top' Example



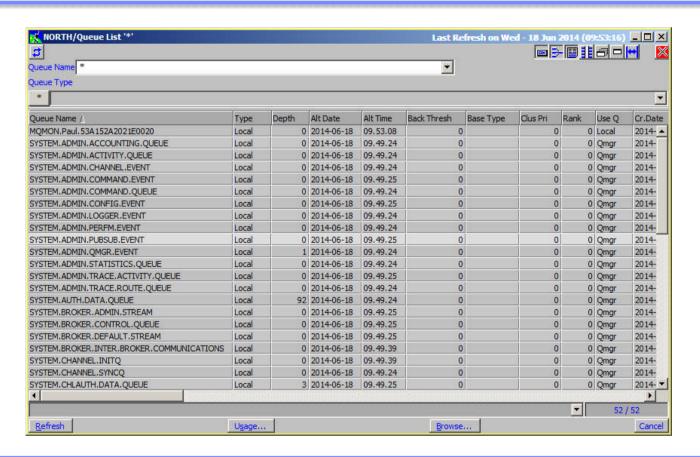
```
* Get the local queues and their depth and store in array
* First delete any previous results
delvar(@val)
* Now, get a list of gueues with messages
@i = 0;
foreach(DIS QL(*) CURDEPTH WHERE(CURDEPTH GT 0))
  @i = @i + 1
  @val[1,@i] = QUEUE
  @val[2,@i] = CURDEPTH
endfor
* Sort the array in descending order by second column
sortd(@val,2)
* Print out a screen full unless there are even less returned
                 @limit = height-3; else @limit = 20; endif
if (height)
if (@limit > @i) @limit = @i; endif
* Ok, print out the top few
@i = 0;
print :48:"Queue Name","Depth"
print :48:"======","====="
while(@i < @limit)</pre>
  @i = @i + 1
 print :48:@val[1,@i],:5:@val[2,@i]
endwhile
```

Control Language 'XmitQs' Example



* Get all the transmission queues foreach(DISPLAY QUEUE(*) CURDEPTH WHERE(USAGE EQ XMITQ)) * Is the depth non-zero ? if (curdepth > 0) @qname = QUEUE @depth = CURDEPTH * Read channel status for this queue foreach(DISPLAY CHSTATUS(*) WHERE(XMITQ EQ <@qname>)) print @gname, "depth", @depth, CHANNEL, "is", STATUS endfor if (matches = 0)print @gname,"depth",@depth,"No channel status" endif endif endfor

MO71 (7.5.2)





MO71 Overview



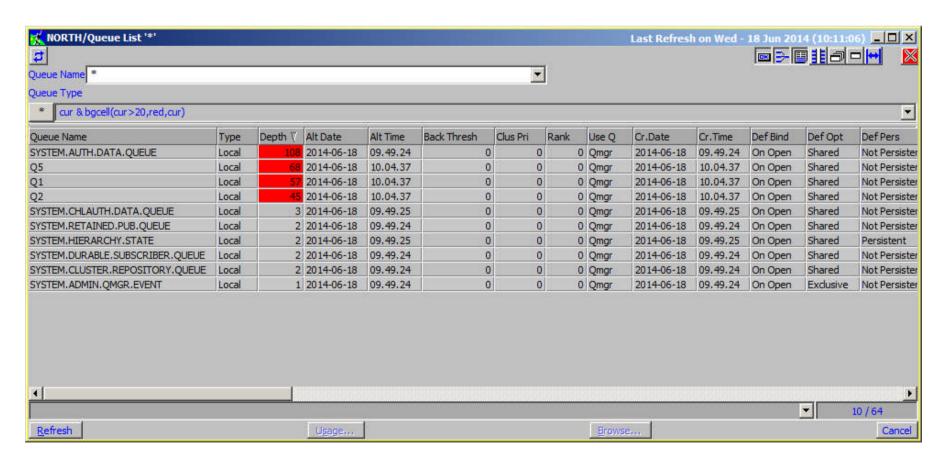
Windows GUI

- Multiple window design
 - Show what you want, where ever you want it.
- Single EXE install, small (<2MB) and fast
- Been around for almost 20 years
 - Used by hundreds of customers all over the world
- Very extensive list of features
 - Not just configuration
 - Monitoring and Administration

Filtering



- Very simple and yet very powerful filtering
 - Simple Boolean expression
 - Expression controls what and how fields are displayed



Filter Manager



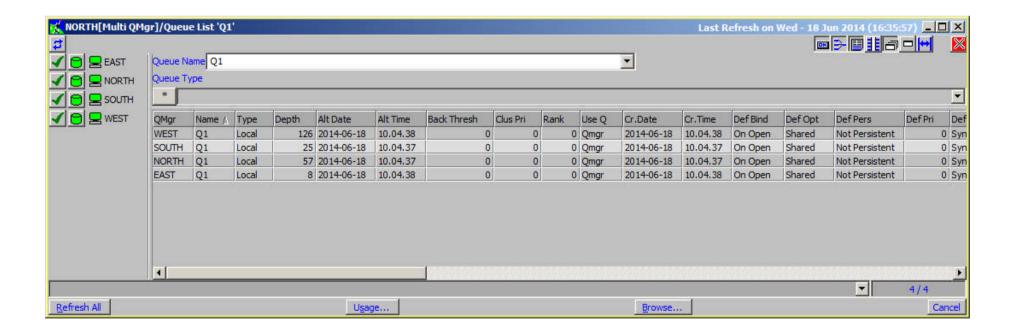
- Allows a name to be assigned to each filter
 - Handy if it's complicated
 - Or just to save typing
 - Each filter given a name and invoked with \$filtername
 - For example, writedepth below:

```
if (_first)
{
    @fd:= fopen("c:\\temp\\qs.csv","w");
}
fprintf(@fd,"%s,%s,%d\n",date$(_time),queue,curdepth);
if(_last)
{
    fclose(@fd);
}
1;
```

Multi-Queue Manager Dialogs



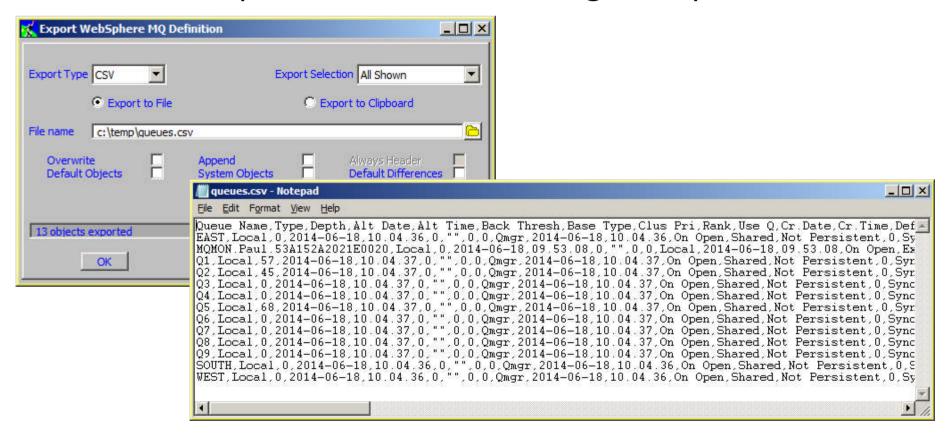
- Shows the results multiple Queue Managers
 - In the same dialog
 - Subject to the same filters
 - Uses less screen real-estate



Export Objects



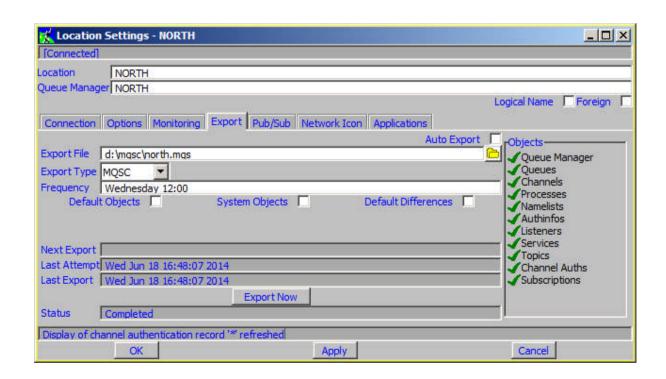
- All lists of MQ objects can be exported
 - To a file or the clipboard
 - In text, MQSC, CSV or XML formats
 - Various options to control what gets exported



Exporting the whole Queue Manager



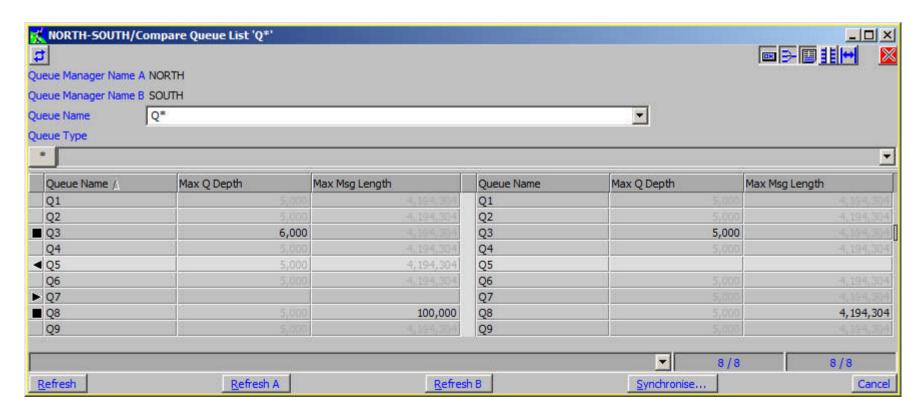
- Will save all the object definitions
 - Can be scheduled to run at any frequency
 - Again you can choose what gets exported
 - Such as default objects, system objects.



Comparing Definitions



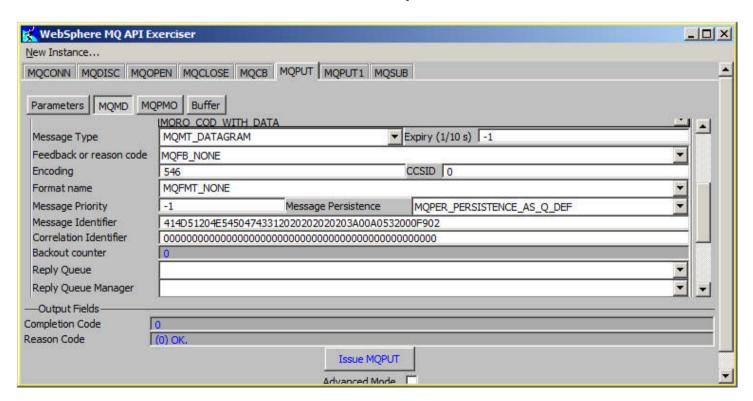
- Compare definitions on any two Queue Managers
 - Shows which objects are different
 - Shows which attributes are different
- Allows object definitions to be synchronised



API Exerciser



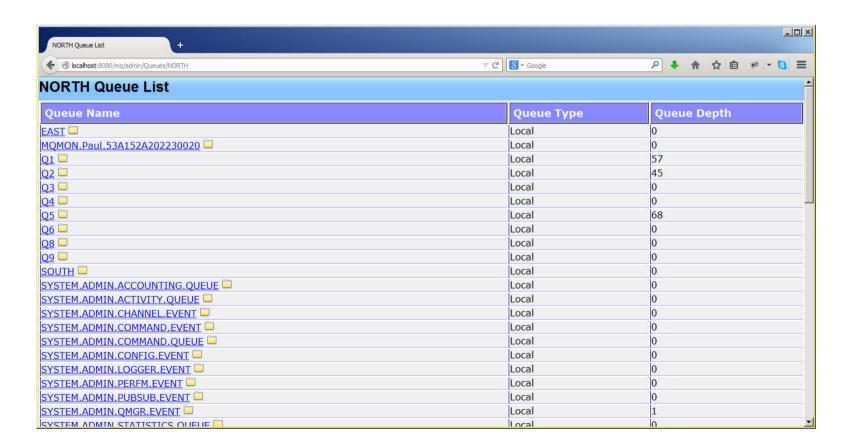
- Allows you to try out most of the MQI
 - Try out MQI combinations
 - See the effect or generate error conditions
 - Supports multiple local or client connections
 - Shows the whole of the MQI structures



Browser Access



- View your MQ status from anywhere
 - Read-only
 - Fully configurable



Event Monitoring

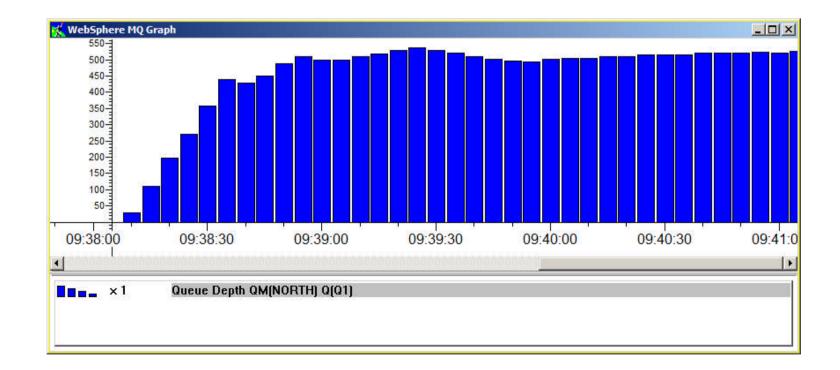


- Will 'listen' on any event queue for given event
 - Can filter by any event field
- Choice of event actions
 - Log to console
 - Log to a file
 - Send to another queue
 - Issue a command
 - Can be used to send email or pager etc

Graphing



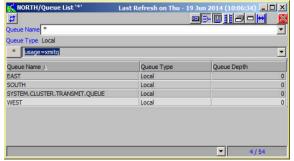
- Monitor virtual any numeric value
 - Set frequency, graph type etc
 - Graph multiple objects and object types
 - Export data-points to CSV

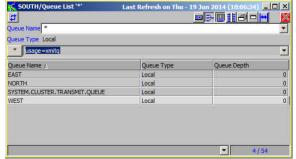


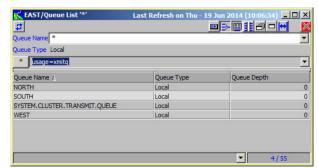
Predefined Dialogs



- Allow you to pre-set dialog...
 - Content
 - Even Multi-Queue Manager supported via qm() filter fn.
 - Filtering
 - Position and Size
 - Refresh rate
- Groups supported
 - Any number of dialogs can be started with single click



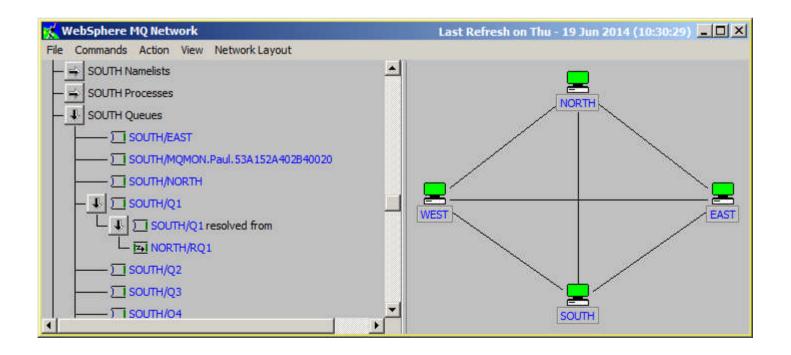




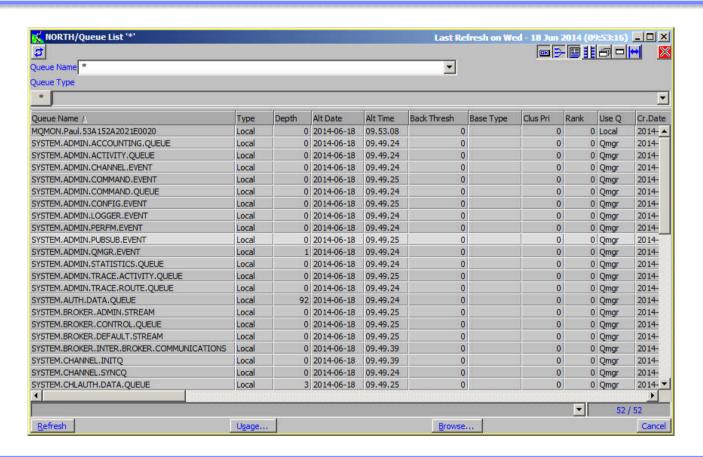
Network Display



- Diagrammatic view of your network
 - Position Queue Managers with your own picture
- Verify view
 - Shows object resolution both to and from
 - Shows any health-check problems



MO71 (8.0.0) – Beta soon

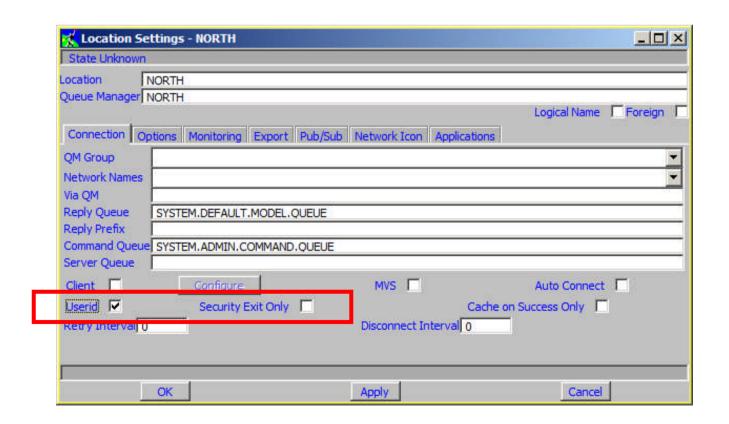




MQ Version 8 Support



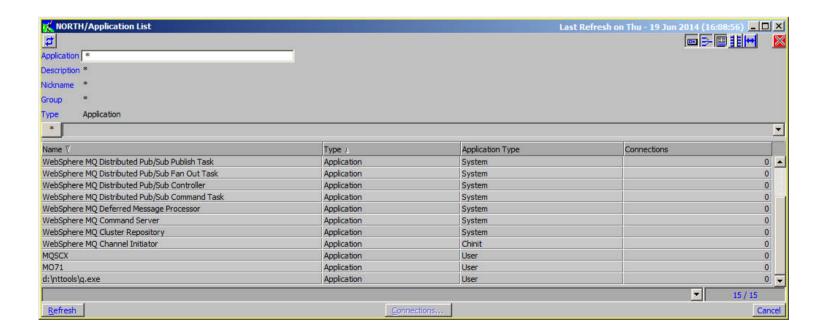
- New object attributes
- Support for V8 Userid/Password authentication
 - Via location dialog



Application List



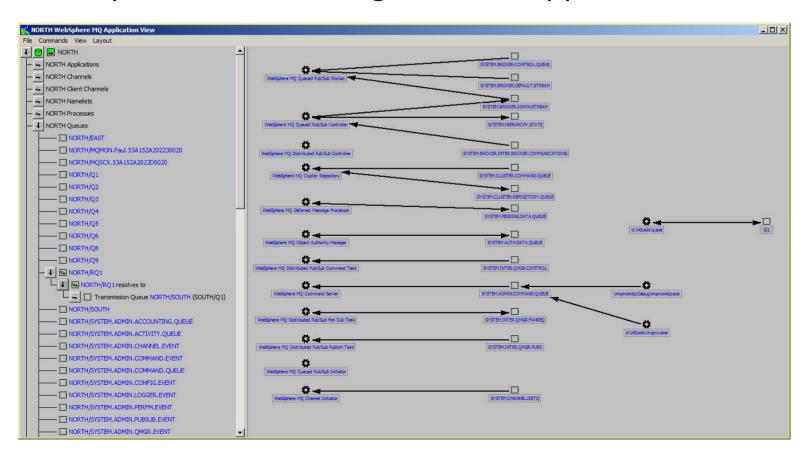
- List of applications
 - Generate dynamically from monitoring
 - Show status, inactive, running or error
 - Shows history of objects opened by the application
 - Including last used times



Application View



- Shows status of applications in a diagram
 - Choose what applications to show...and where
 - Whether application is active and/or has queue open
 - User picture can be assigned to an application



Pricing



	Single User/Single Machine Per year	Site Licence Per year
MQSCX	£29.99	£299.99
MO71	£49.99	£399.99

- Licences are purchased per time unit.
 - They can be bought for 1,2 or 3 years.
- Site licence
 - A site licence covers as many users as necessary provided they are all at the same site (postal address). Users at a different site will require another Diamond licence.
- Licences can be purchased from www.mqgem.com
 - Or software reseller or via email/bank transfer

Any Questions?





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