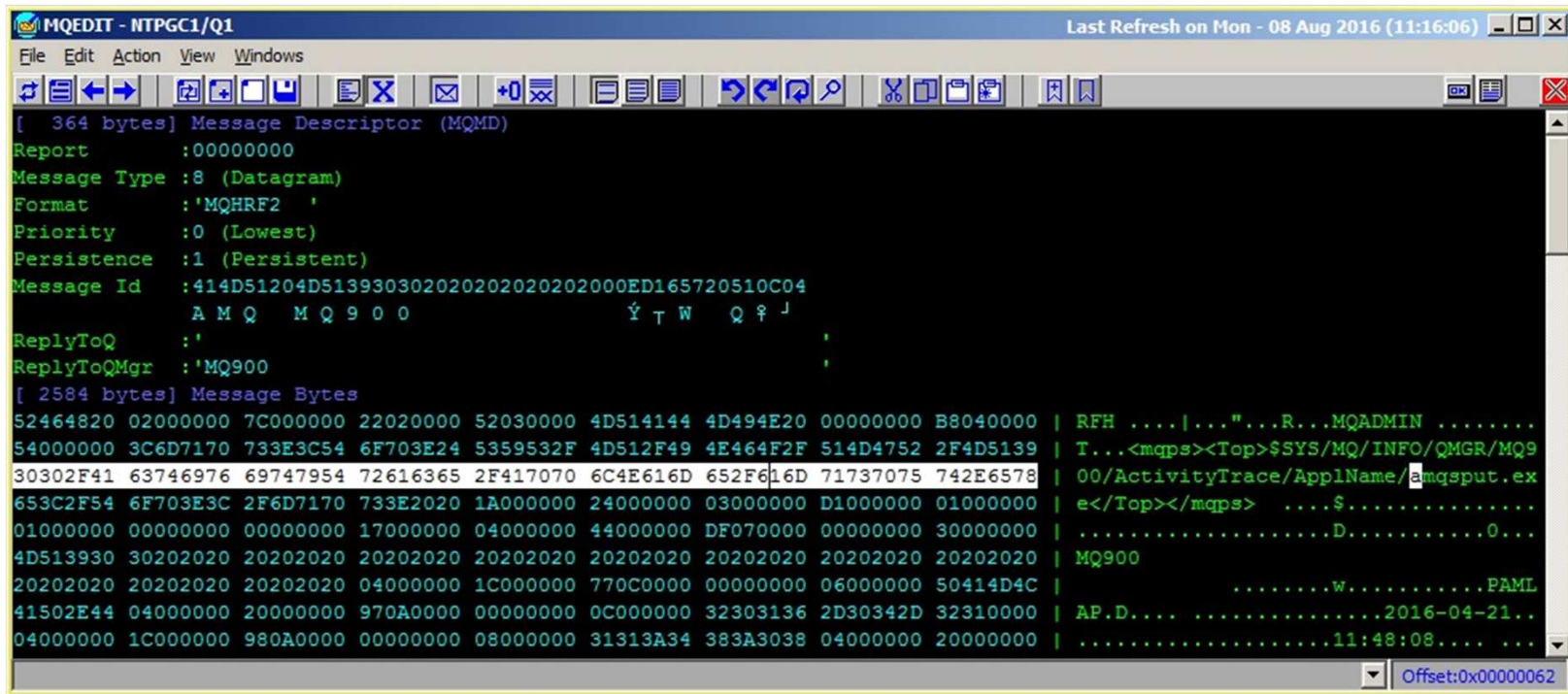


MQEDIT – Live Parsing MQ Editor



The screenshot shows the MQEDIT application window titled "MQEDIT - NTPGC1/Q1". The window displays the following message details:

```
[ 364 bytes] Message Descriptor (MQMD)
Report          :00000000
Message Type    :8 (Datagram)
Format         :'MQHRF2 '
Priority        :0 (Lowest)
Persistence     :1 (Persistent)
Message Id      :414D51204D51393030202020202020202000ED165720510C04
                  A M Q   M Q 9 0 0           Ý  T  W   Q  ¨  J
ReplyToQ        :'
ReplyToQMGr     :'MQ900

[ 2584 bytes] Message Bytes
52464820 02000000 7C000000 22020000 52030000 4D514144 4D494E20 00000000 B8040000 | RFH ....|...R...MQADMIN .....
54000000 3C6D7170 733E3C54 6F703E24 5359532F 4D512F49 4E464F2F 514D4752 2F4D5139 | T...<mqps><Top>$SYS/MQ/INFO/QMGR/MQ9
30302F41 63746976 69747954 72616365 2F417070 6C4E616D 652F616D 71737075 742E6578 | 00/ActivityTrace/ApplName/amqsput.ex
653C2F54 6F703E3C 2F6D7170 733E2020 1A000000 24000000 03000000 D1000000 01000000 | e</Top></mqps> ....$.
01000000 00000000 00000000 17000000 04000000 44000000 DF070000 00000000 30000000 | .....D.....0...
4D513930 30202020 20202020 20202020 20202020 20202020 20202020 20202020 20202020 | MQ900
20202020 20202020 20202020 04000000 1C000000 770C0000 00000000 06000000 50414D4C | .....w.....PAML
41502E44 04000000 20000000 970A0000 00000000 0C000000 32303136 2D30342D 32310000 | AP.D....2016-04-21..
04000000 1C000000 980A0000 00000000 08000000 31313A34 383A3038 04000000 20000000 | .....11:48:08....
```

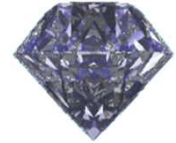
The window also shows a menu bar (File, Edit, Action, View, Windows), a toolbar with various icons, and a status bar at the bottom right indicating "Offset:0x00000062".



MQGem Software

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Agenda



MQGem
Software

- MQEDIT
 - Introduction
 - Features
 - Conclusion
 - Q&A

Introduction



MQGem
Software

- Witten by popular request
 - Have received requests for many years
- Still in Beta
 - Is free to download and use until end-January 2017
- Encourage feedback
 - New features are already planned
 -but what would you like to see in an editor

MQEDIT main screen



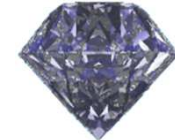
MQGem
Software

- Queue Manager List
 - Queues listed under each queue manager
- Message List
- Message edit pane

The screenshot displays the MQEDIT main screen for a queue named 'XML'. The interface is divided into three main sections:

- Queue Manager List (Left):** A tree view showing the hierarchy of queue managers. Under 'Local', there are 'News' and 'Test' categories. 'News' includes 'EAST', 'NORTH', 'SOUTH', and 'WEST'. 'Test' includes 'A', 'B', and 'C'. Under 'z/OS', there are 'CENTRAL', 'CODEPAGE', 'DEV01', 'GATEWAY1', 'GATEWAY2', 'LONDON', 'MORAG', 'MQ750', and 'MQ801'. The 'NORTH/XML' queue is selected.
- Message List (Middle):** A table showing the message details for the selected queue. The table has columns for Position, Format, MsgLen, Message, and Priority. The first message is at Position 1, Format MQSTR, MsgLen 534, and Priority 0. The message content is: `<person_record key="8674"><name><given_name>Morag<`
- Message edit pane (Right):** A text editor showing the full message content. The message is 534 bytes long. The content is: `<person_record key="8674"><name><given_name>Morag</given_name></middle_initial>A.</middle_initial><family_name>Hughson</family_name></name><address><street>`

Features: 'live parsing'



MQGem
Software

- Message is formatted 'as you type'
 - Instant feedback on data errors

The screenshot shows the MQEDIT - NORTH/XML application window. The menu bar includes File, Edit, Action, View, and Windows. The toolbar contains various icons for file operations and editing. The main text area displays the following XML content:

```
[ 533 bytes] Message Content
<person_record key="8674">
  <name>
    <given_name>
      Morag
    </given_name>
    <middle_initial>
      A.
    </middle_initial>
    <family_name>
      Hughson
    </family_nam>
  </name><address><street>7000 Kalahari Drive</street><city>Sandusky</city><state>Ohio</state><
  zip_code>44870</zip_code></address><phone type="toll-free">877-525-2427</phone><phone type="1
  ocal">419-433-7200</phone><web type="email">morag@mqgem.com</web><web type="email">morag.hugh
  son@freemail.com</web><web type="homepage">http://www.mqgem.com</web><web type="twitter">@Mor
  agHughson</web></person_record>
** XML Badly formed ** Expected end tag </family name>
</name><address><street>7000 Kalahari Drive</street><city>Sandusky</city><state>Ohio</state><
zip_code>44870</zip_code></address><phone type="toll-free">877-525-2427</phone><phone type="1
ocal">419-433-7200</phone><web type="email">morag@mqgem.com</web><web type="email">morag.hugh
son@freemail.com</web><web type="homepage">http://www.mqgem.com</web><web type="twitter">@Mor
agHughson</web></person_record>
** XML Badly formed ** Expected end tag </name>
** XML Badly formed ** Expected end tag </person_record>
```

The status bar at the bottom right shows "Offset:0x0000004E".

Features: multiple display formats



MQGem
Software



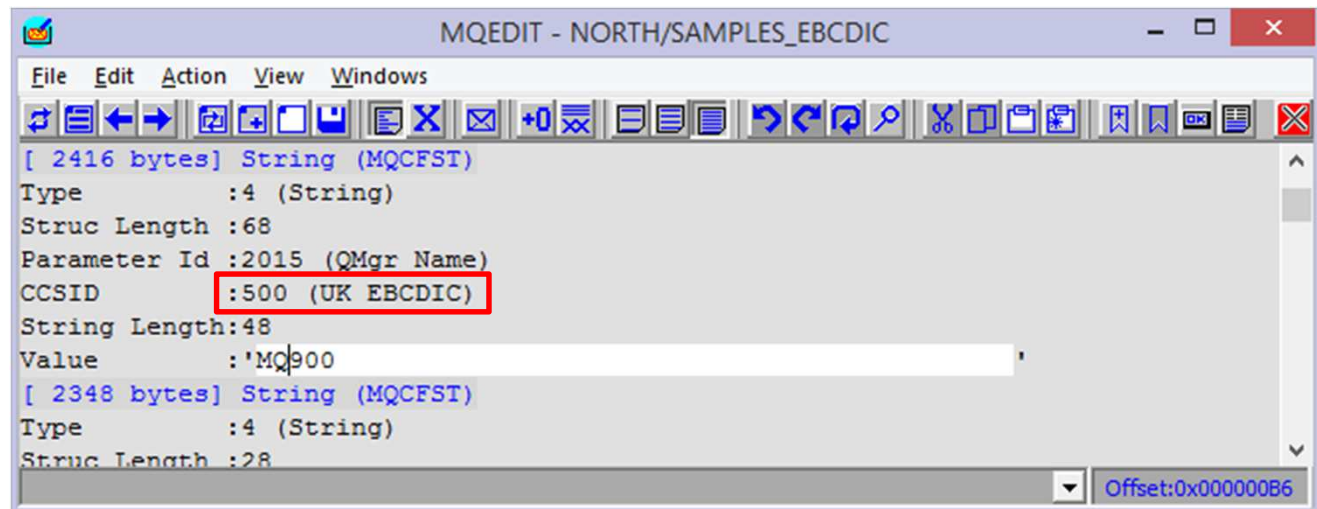
- Display high/medium/low detail level
- Show hex as characters
 - e.g. MessageId/CorrelationId
- Display message offsets
- Show/Hide MQMD
- Edit in formatted mode or hex mode

Features: Edit in native format



MQGem
Software

- No need to convert to local codepage/encoding
 - Edit EBCDIC messages directly
 - Edit big endian integers directly
- No risk of data loss/corruption
- Make minimum changes to the message
 - Just change the bytes you need



Features: Editing of structured messages



MQGem
Software

- MQEDIT understands the structure of
 - PCF Command Messages
 - Events messages
 - Transmission Queue Headers
 - Dead Letter Queue Headers
 - ... and others

- ...making editing or adding sub-structures easy

The screenshot shows the MQEDIT application window titled "MQEDIT - NORTH/SAMPLES". The window has a menu bar with "File", "Edit", "Action", "View", and "Windows". Below the menu bar is a toolbar with various icons for file operations, editing, and navigation. The main display area shows the following structured message header:

```
[ 179 bytes] Message Content
[ 179 bytes] Dead Letter Queue Header (MQDLH)
StrucId      : 'DLH '
Version      : 1
Reason       : 3023 (MQMD format error.)
Dest. Queue  : 'Q1 '
Dest. QMgr   : 'NTPGC1 '
MQEncoding   : 0x'222' (Reversed)
CCSID        : 850 (DOS Latin 1)
Format       : 'MQSTR '
PutApplType  : 11 (Windows NT)
PutApplName  : 'd:\nttools\q.exe '
Put Date     : '20150219'
Put Time     : '16114984'
```

At the bottom right of the window, there is a status bar showing "Offset: 0x00000036".

XML Editing assistance



MQGem
Software

- Editing XML messages assistance includes
 - Goto partner tag
 - Selection of tag section
 - Simple add and removal of tags
 - Comment/Uncomment XML section
 - Automatic modification of partner tags

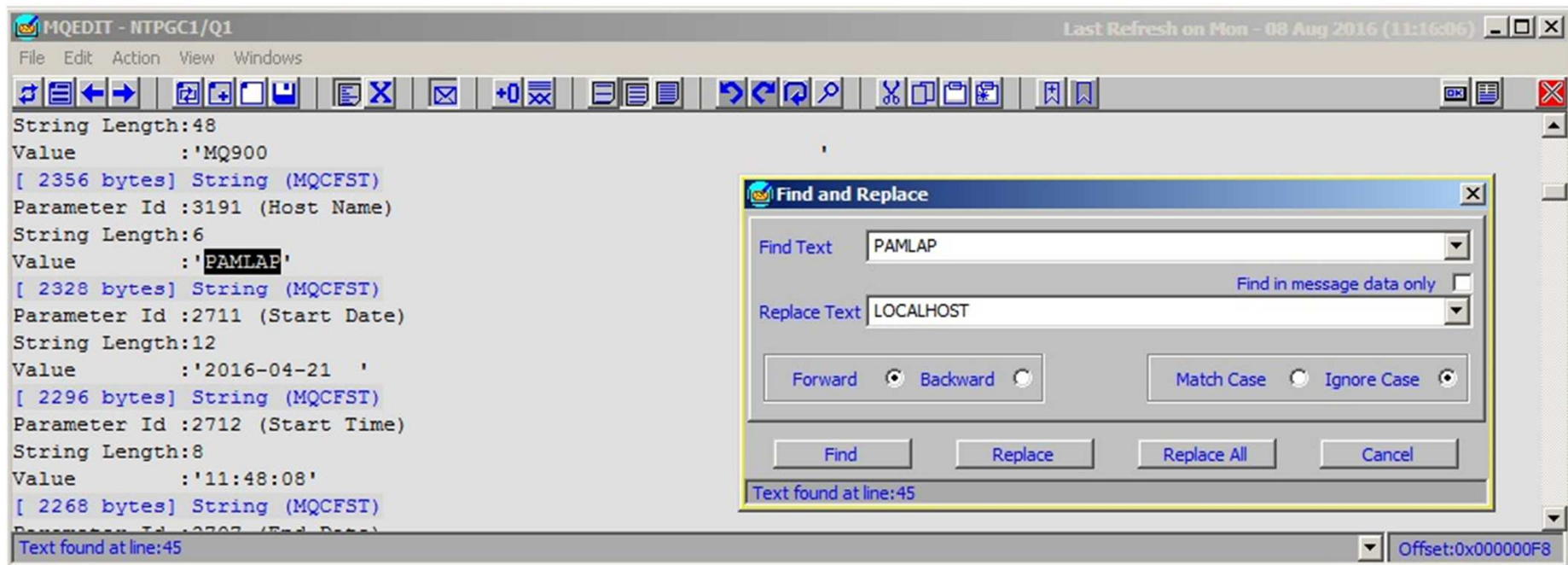
```
MQEDIT - NORTH/XML
File Edit Action View Windows
[ 560 bytes] Message Content
<person_record key="8674">
  <name>
    <given_name>
      Morag
    </given_name>
    <middle_initial>
      A.
    </middle_initial>
    <family_name>
      Hughson
    </family_name>
  </name>
  <!-- Temporary address -->
  <address>
    <street>
      7000 Kalahari Drive
    </street>
    <city>
      Sandusky
    </city>
    <state>
      Ohio
    </state>
    <zip_code>
      44870
    </zip_code>
  </address>
  <phone type="toll-free">
    877-525-2427
  </phone>
</person_record>
```

Features: Find and Replace



MQGem
Software

- Search for strings
- Replace just one or all instances of a string
- Replacement is done intelligently
 - Lengths remain correct in structured messages



Features: Operations



MQGem
Software

- Browse
- Edit
- Delete
- Copy & Move
 - Drag & Drop even across QMgrs!

MQEDIT - NORTH/SAMPLES

File Edit Action View Windows

Search Location

Search Queue

News

- EAST
- NORTH
 - CQ1
 - CQ2
 - CQ3
 - EVENTS
 - LANGUAGE (1)
 - NUMBERS
 - Q1
 - Q2
 - Q3
 - Q4
 - Q9
 - RBCQ1
 - RBCQ2
 - RBCQ3

Queue Name SAMPLES

Display Range 1,2000

Selector *

Pos	Format	MsgLen	Message
8	MQXMIT	3,600	XMIT: NTPGC2/SYSTEM.CLUSTER.COMMAI
9	MQXMIT	1,336	XMIT: NTPGC2/Q1
10	MQXMIT	434	XMIT: NTPGC2/Q5
11	MQEVENT	104	QMgr Event - Reason(QMgr active) QMgr f
12	MOEVENT	1,948	Config Event - Reason(Config Change obje
13	MQDEAD	180	DLQ: Reason(Transmission Q Message Err
14	MQDEAD	183	DLQ: Reason(Unknown object name)
15	MQDEAD	179	DLQ: Reason(MQMD format error)
16	MOSTR	26	Test message from 'NTPGC1'

16 / 16

Type :4 (String)

Struc Length :32

Parameter Id :3045 (Event User Identifier)

CCSID :850 (DOS Latin 1)

String Length:12

Display of message refreshed Offset:0x00000034

Conclusion



MQGem
Software

- Makes editing messages on MQ a breeze
- Still many future enhancements planned
 - User format messages
 - Better codepage support eg.MBCS
 - Edit History
 - Save/Load Message
- Free to download and use
 - Give it a try and let us know what you think

Thank-you

Any questions?



For a more in-depth look of MQEDIT and our other products why not come and see us at the Expo?

Don't forget to enter the prize draw for a free licence!



MQGem Software

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