

PQ76061 Enhancements Enhancement details

Document Number PQ76061 Enhancement Details

Formatted: July 16, 2003 2:04 p.m.

Authors: File Manager Change Team

Unclassified

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PQ76061 Enhancements

Summary of enhancements

The enhancements provided by this APAR are largely related to behavior when using a view as follows:

- Line command entry areas on database positioning and segment selection panels have been made consistently 3 characters wide.
- The database positioning panel now visually identifies the currently selected segments.
- New primary and line commands have been added to simplify the selection of segments, segment layouts and fields.
- The SHOW SUP ON command is now supported in TABL display format, such that the effect of issuing a SHOW command is consistent across display formats and removes the previous need for the SHOW SUP ON command to be reissued after changing to the TABL format.
- SHOW SUP setting is now stored in the profile. The SHOW command setting is now available as a profile storable parameter such that it persists from one browse/edit session to another.
- A display of the current SHOW setting has been added to the browse/edit panels.
- Commands CHILD, KEY, NEXT and PREVIOUS have been enhanced to allow specification of a segment name operand to simplify navigation between different segment types. When using a view, switching to the layout associated with the particular segment is automatic.
- A LOCATE command has been added to simplify finding a particular field when using a formatted display.
- Primary (FORMAT) and line commands (FC, FH, FL, FS and FT) have been added to change the display format. These primary and line commands simplify the actions required to change the current display format and in multi-line formats perform automatic scrolling and layout switching to the cursor selected segment.
- A primary command (GE) has been added to the database positioning panel to allow usage of a greater than or equal to key value positioning search for the selected segment.
- PF key definitions used by database positioning and browse/edit panels have been updated to using the new GE and FORMAT commands.

Segment, Layout, and Field Selection Enhancements

A number of changes have been implemented to enhance the selection/deselection of segments, layouts, and fields when using a view to edit/browse a database. These enhancements and those provided by PQ76195 address the following Marketing Field Requirements:

- MR120202328

- MR120302172

Toggle Command for View: Segment Selection Panel

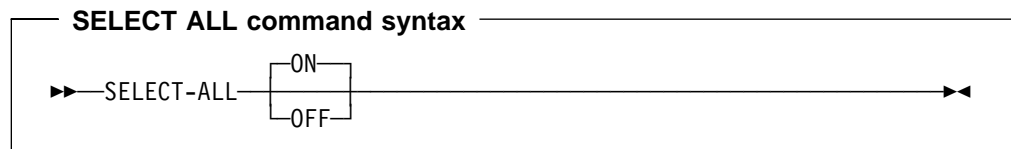
The View: Segment Selection panel has been enhanced to allow the user to toggle the selected/deselected setting for each of the segments in the database.

The line command field on the View: Segment Selection panel has been expanded to 3 characters to provide support for the following new line commands:

- Xnn** Select *nn* segments for processing or, if any of these segments are already selected for processing, deselect them.
- X*** Select all segments from the current segment to the end of the list or, if any of these segments are already selected for processing, deselect them.
- XX** Select a block of segments for processing or, if any of these segments are already selected for processing, deselect them.

SELECT ALL Primary Command

A new primary command has been added to ease selecting or deselecting of all segments from the segment selection and segment layout panels. PQ76195 also provides this from the Database Positioning panel.



ON

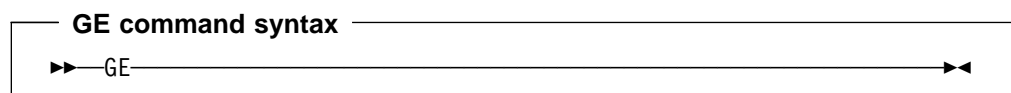
Selects all segments, layouts or fields for processing.

OFF

Deselects all segments, layouts or fields for processing.

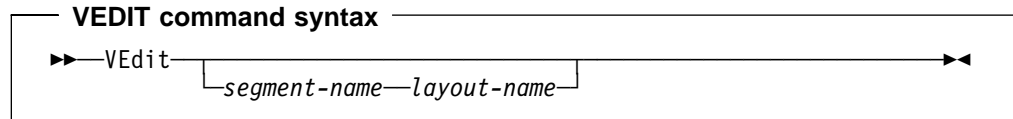
GE Primary Command

A new primary command has been added to specify that the positioning logic is to use a Greater than or Equal to search for the specified key values. Just pressing enter from the database positioning panel attempts an equal key search. Note that for HDAM databases, the root key value is **always** searched for in equals mode. The keylist for the positioning panel has been modified to associate function key 5 with the GE command.



VEDIT Primary Command Enhancements

The VEDIT primary command has been enhanced to allow the user to go directly to either the View : Segment Layout Selection panel or the View : Segment Layout panel. This simplifies the processes of selecting/deselecting layouts for a segment and editing a layout for a segment.



segment-name

The name of a segment in the database. If *segment-name* has multiple layouts defined in the view and *layout-name* is not supplied, the View : Segment Layout panel is displayed. If *segment-name* has only a single layout the View : Segment Layout panel is displayed.

layout-name

The name of a layout for a segment which has multiple layouts defined in the view. The View : Segment Layout panel for *layout-name* is displayed.

Using the Enhanced VEDIT Command

The following screens show an example of using the enhanced VEDIT command to deselect fields for the currently formatted segment.

```

Process  Options  Help
-----
FM/IMS           Edit : IMS Database DJIG
Command ==>> ve shire shire                               Scroll CSR
                                                           Format TABL
Cmd Level Segment SHIRE-NAME SHIRE-TYPE SHIRE-ID SHIRE-CODE1
                  #3          #5          #6 R #4    #7
                  AN 1:20     AN 21:1   AN 21:1   ZD 22:3
                  <-----1-----> - - - - - <-->
                  **** Top of window ****
  1 SHIRE          zzOOOME          1          1          420
=SU 2 SHIRENP     Key=No key
=SU 2 SHRLSUB     Key=BROOME
=SU 3 SUBLSTR     Key=AARONS          DR
=SU 3 SUBLSTR     Key=ANNE          ST
=SU 3 SUBLSTR     Key=ANTHEOUS       WY
=SU 3 SUBLSTR     Key=ANTINA        WY
=SU 3 SUBLSTR     Key=ARCHER        ST
=SU 3 SUBLSTR     Key=ASAHI         ST
=SU 3 SUBLSTR     Key=AURORA        ST
=SU 3 SUBLSTR     Key=BAGOT         ST
=SU 3 SUBLSTR     Key=BARDWELL      ST
F1=Help  F2=Format  F3=Exit  F4=CRetriev  F5=RFind  F6=RChange
F7=Up    F8=Down   F9=Swap  F10=Left   F11=Right F12=Cancel
    
```

```

Process  Options  Help
-----
FM/IMS          View : Segment Layout
Command ==> select all on
View Temporary  Scroll CSR
Template SOPERW.DEMO.TEMPLATE(DJ1G) Segment SHIRE
Cmd Seq SHC Ref Rdf Field name          Key Type  Start Length
**** Top of data ****
-----
   1  1 SHIRE                               AN        1    53
   2  2 SHIRE-KEY                           K         AN    1    20
   3  3 SHIRE-NAME                           K         AN    1    20
   4  2 SHIRE-SELECT                          AN        21     1
   5  3 SHIRE-TYPE                            AN        21     1
   6  4  2 SHIRE-ID                            AN        21     1
   7  2 SHIRE-CODE1                           ZD        22     3
   8  2 SHIRE-CODE2                           ZD        25     5
   9  2 SHIRE-ROAD                            PD        30     8
  10  2 SHIRE-RIVER                           PD        38     8
  11  2 SHIRE-BRIDGE                           PD        46     8
-----
----- Field Selection Criteria -----
-----
F1=Help  F2=Split  F3=Exit  F4=CRetriev  F5=RFind  F6=Describe
F7=Up    F8=Down   F9=Swap  F11=Headings F12=Cancel

```

```

Process  Options  Help
-----
FM/IMS          View : Segment Layout
Command ==>
View Temporary  Scroll CSR
Template SOPERW.DEMO.TEMPLATE(DJ1G) Segment SHIRE
Cmd Seq SHC Ref Rdf Field name          Key Type  Start Length
**** Top of data ****
s  ___ S  1  1 SHIRE                               AN        1    53
   ___ S  2  2 SHIRE-KEY                           K         AN    1    20
   ___ S  3  3 SHIRE-NAME                           K         AN    1    20
   ___ S  4  2 SHIRE-SELECT                          AN        21     1
   ___ S  5  3 SHIRE-TYPE                            AN        21     1
   ___ S  6  4  2 SHIRE-ID                            AN        21     1
   ___ S  7  2 SHIRE-CODE1                           ZD        22     3
   ___ S  8  2 SHIRE-CODE2                           ZD        25     5
   ___ S  9  2 SHIRE-ROAD                            PD        30     8
-----
----- Layout Identification Criteria -----
#5=0
----- Field Selection Criteria -----
-----
F1=Help  F2=Split  F3=Exit  F4=CRetriev  F5=RFind  F6=Describe
F7=Up    F8=Down   F9=Swap  F11=Headings F12=Cancel

```

```

Process  Options  Help
-----
FM/IMS          View : Segment Layout
Command ==>
View Temporary  Scroll CSR
Template SOPERW.DEMO.TEMPLATE(DJ1G) Segment SHIRE
Cmd Seq SHC Ref Rdf Field name          Key Type  Start Length
**** Top of data ****
   ___ S  1  1 SHIRE                               AN        1    53
   ___ S  2  2 SHIRE-KEY                           K         AN    1    20
   ___ S  3  3 SHIRE-NAME                           K         AN    1    20
   ___ S  4  2 SHIRE-SELECT                          AN        21     1
   ___ S  5  3 SHIRE-TYPE                            AN        21     1
   ___ S  6  4  2 SHIRE-ID                            AN        21     1
   ___ S  7  2 SHIRE-CODE1                           ZD        22     3
   ___ S  8  2 SHIRE-CODE2                           ZD        25     5
   ___ S  9  2 SHIRE-ROAD                            PD        30     8
-----
----- Layout Identification Criteria -----
#5=0
----- Field Selection Criteria -----
-----
F1=Help  F2=Split  F3=Exit  F4=CRetriev  F5=RFind  F6=Describe
F7=Up    F8=Down   F9=Swap  F11=Headings F12=Cancel

```



```

Process  Options  Help
-----
FM/IMS                                     Edit : IMS Database DJ1G
Command ==>>>                               Scroll CSR
                                         Format TABL
                                         SHIRE-NAME
                                         SHIRE-TYPE SHIRE-ID SHIRE-CODE1
Cmd Level Segment #3 #5 #6 R #4 #7
AN 1:20 AN 21:1 AN 21:1 ZD 22:3
<-----1-----> -
**** Top of window ****
1 SHIRE zzOOM 1 1 420
=SU 2 SHIRENP Key=No key
=SU 2 SHRLSUB Key=BROOME
=SU 3 SUBLSTR Key=AARONS DR
=SU 3 SUBLSTR Key=ANNE ST
=SU 3 SUBLSTR Key=ANTHEOUS WY
=SU 3 SUBLSTR Key=ANTINA WY
=SU 3 SUBLSTR Key=ARCHER ST
=SU 3 SUBLSTR Key=ASAHI ST
=SU 3 SUBLSTR Key=AURORA ST
=SU 3 SUBLSTR Key=BAGOT ST
=SU 3 SUBLSTR Key=BARDWELL ST
F1=Help F2=Format F3=Exit F4=CRetriev F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
    
```

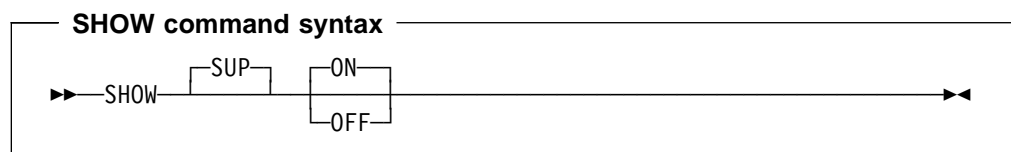
TABL mode enhancement for SHOW support

An enhancement has been provided to support the usage of the SHOW SUP ON command in TABL mode. Those segments that can not be formatted by the current layout in use by TABL, are represented by a line denoting the key value of the segment represented. These lines appear in the uneditable browse color. This approach eliminates the inconsistency of the SHOW command being affected by changes to the display mode, allowing the SHOW setting to remain as specified until modified as desired by the user. The SHOW setting is now stored in the profile so that settings remain across browse/edit sessions. (See also “Edit/Browse Options” on page 21).

SHOW primary command

The SHOW command is only applicable when a view is being used with the database. The command controls the grouping of segment data that is not of the currently formatted segment and layout type. These are referred to as suppressed segments.

By default, these segments are grouped by layout and represented as shadow lines.



SUP

Pertains to suppressed segments.

OFF

Groups the segments in a shadow line.

ON

Does not group the segments in a shadow line, making the segments available as part of the current scope for data manipulation commands. In modes other

than TABL, the segment data becomes directly editable. For TABL mode, the data is not directly editable, instead the segment key value (if any) is displayed.

Entering SHOW by itself is the same as entering SHOW SUP ON.

Examples:

1) Using IVP database DJ1G and starting on a SHIRE segment with a key value of DENMARK in TABL display format and then issuing the SHOW SUP ON command

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==> show sup on                               Scroll CSR
                                                         Format TABL
Cmd Level Segment  SHIRE-NAME      SHIRE-TYPE SHIRE-ID SHIRE-CODE1
#3              #5              #6 R #4     #7
AN 1:20         AN 21:1        AN 21:1     ZD 22:3
<-----1-----> - - - - - <-->
**** Top of window ****
--- 1  SHIRE  DENMARK      1          1          610
--- 2  SHIRENP 1 segment
--- 2  SHRLSUB Key=BOW BRIDGE
--- 3  SUBLSTR 7 segments
--- 2  SHRLSUB Key=DENMARK
--- 3  SUBLSTR 254 segments
--- 2  SHRLSUB Key=DENMARK SHIRE
--- 3  SUBLSTR 73 segments
--- 2  SHRLSUB 2 segments
--- 3  SUBLSTR 2 segments
--- 2  SHRLSUB Key=HAZELVALE
--- 3  SUBLSTR 5 segments
F1=Help      F2=Format    F3=Exit      F4=CRetrieve F5=RFind     F6=RChange
F7=Up        F8=Down      F9=Swap      F10=Left    F11=Right   F12=Cancel
    
```

```

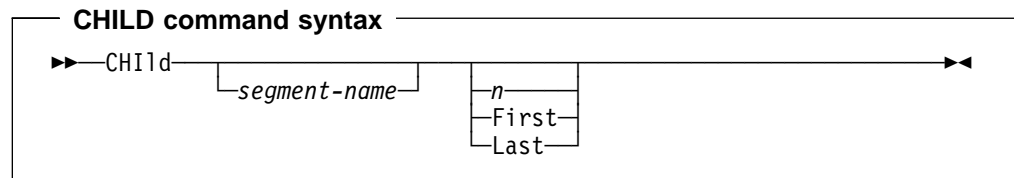
Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==>                               Scroll CSR
                                                         Format TABL
Cmd Level Segment  SHIRE-NAME      SHIRE-TYPE SHIRE-ID SHIRE-CODE1
#3              #5              #6 R #4     #7
AN 1:20         AN 21:1        AN 21:1     ZD 22:3
<-----1-----> - - - - - <-->
**** Top of window ****
--- 1  SHIRE  DENMARK      1          1          610
=SU 2  SHIRENP Key=No key
=SU 2  SHRLSUB Key=BOW BRIDGE
=SU 3  SUBLSTR Key=BANDIT          RD
=SU 3  SUBLSTR Key=DINGO FLAT      RD
=SU 3  SUBLSTR Key=NORTH HAZELVALE RD
=SU 3  SUBLSTR Key=PEACEFUL BAY    RD
=SU 3  SUBLSTR Key=SOUTH COAST     HWY
=SU 3  SUBLSTR Key=TINGLEDALE      RD
=SU 3  SUBLSTR Key=VALLEY OF THE GIANTS RD
=SU 2  SHRLSUB Key=DENMARK
=SU 3  SUBLSTR Key=ABERNETHY       CT
F1=Help      F2=Format    F3=Exit      F4=CRetrieve F5=RFind     F6=RChange
F7=Up        F8=Down      F9=Swap      F10=Left    F11=Right   F12=Cancel
    
```

CHILD parameter enhancement

The CHILD command is not specifically enhanced. However, specifying the *segment-name* parameter is simpler, thus avoiding unnecessary keystrokes. (The existing SEGment() keyword is removed).

CHILD primary command

The CHILD command scrolls the current position to the first, last or *n*th occurrence of a segment that is a hierarchical dependent of the current segment.



Parameters

segment-name

The name of the segment you want to scroll to. The segment type must be one of the segment types defined in the DBD to be a hierarchical dependent of the current segment.

If *segment name* is not specified, scrolling is restricted to the first hierarchical child segment type under the current segment.

n must be a positive integer which is used to request scrolling to the *n*th occurrence of the specified dependant segment type. An error message is displayed if there are less than *n* occurrences of the specified segment under the current segment.

First

requests scrolling to the first occurrence of the specified dependent segment type.

Last

requests scrolling to the last occurrence of the specified dependent segment type.

If the CHILD command is entered without operands, the scroll request is to the first hierarchically dependent child segment.

When using a view, the child command only operates on those segments that the view has made available. If the specified segment is found, then the current layout is changed to match the new current segment.

If the specified segment is not found, a message is issued and the CHILD command has no effect.

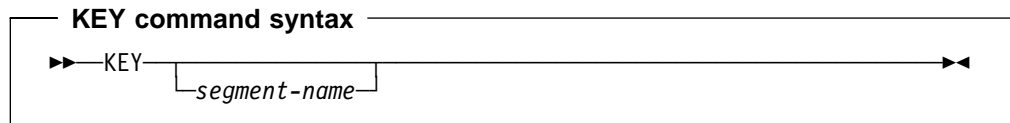
KEY Primary Command

The File Manager IMS browse/edit KEY primary command has been enhanced to allow the user to specify a segment name to be used for entering key values to reposition the starting point of the browse/edit session. This enhancement avoids the previous need to either return to the database positioning panel, or scroll in some manner to the desired segment type in the current browse/edit session before entering the KEY primary command.

This enhancement to the KEY command helps address the following Marketing Field Requirements:

- MR1121022759
- MR1202025135

KEY



segment-name

Use the segment type *segment-name* for entering key values to start the edit session. This is similar to returning to the database positioning panel and entering the K line command against the entered *segment-name*.

The Key Specification panel displays key values based on the current hierarchical path and segment position (the current path and segment may be overridden by use of the *segment-name* parameter). The panel is initialized with the key values for the segments in the hierarchical path. You can modify the key values for those segments in the hierarchical path. If a view is in use and the specified or current segment contains multiple layouts, an intermediate screen is displayed such that the desired layout for entering key values may be chosen.

Once processing of the Key Specification panel is complete, File Manager IMS redisplay the Browse/Edit data panel where the KEY command was entered. The segment that satisfies the key values entered on the Key Specification panel becomes the current start segment.

NEXT and PREVIOUS Primary Commands

The File Manager IMS browse/edit NEXT and PREVIOUS primary commands have been enhanced to allow the user to specify a target segment for a position scroll within a database and, if using a view for formatted display, make the new segment type the currently formatted segment. The NEXT and PREVIOUS primary commands are supported in all formats of unformatted and formatted display mode.

The NEXT and PREVIOUS commands let users scroll their current position in the database by moving to a segment that may be across a hierarchical boundary. This improves navigation, especially for those users who understand the data stored in each segment type but are not certain of the hierarchical structure of the database records.

With these changes, the NEXT and PREVIOUS commands provide functionality similar to that of the ISPF LOCATE command. Users can now issue a primary command to move their position in the database to a particular segment type and avoid potentially having to issue many scroll commands to find the segment type in question.

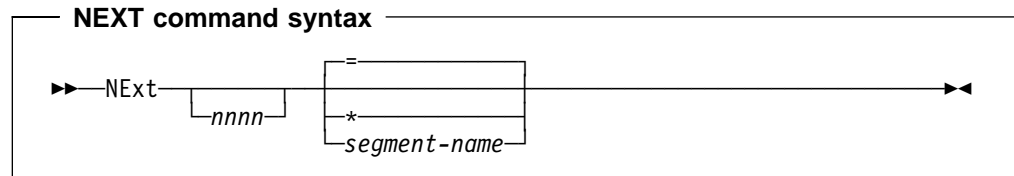
These enhancements to the NEXT and PREVIOUS commands address the following Marketing Field Requirements:

- MR1121022759
- MR120202328
- MR1202025135

- MR1203024817

NEXT

The NEXT primary command uses the parameters supplied to scroll the current database position to the next occurrence of a segment type.



nnnn

Scroll forward *nnnn* segment occurrences. The default for *nnnn* is 1.

- = Behavior depends on the current SHOW command settings.

If the current setting is **SHOW SUP OFF**, scrolls forward to the *nnnn*th occurrence of the same segment and layout type from the current database position (ie. the currently formatted segment and layout type).

If the current setting is **SHOW SUP ON**, scrolls forward *nnnn* segment occurrences irrespective of their segment or layout type.

Notes:

1. This is the previous behavior of the NEXT command in SNGL format.

2. = is the default unless the option:

"Use * (any segment type) as default on NEXT and PREVIOUS commands"

has been selected on the Edit/Browse Options panel (see "Edit/Browse Options" on page 21).

- * Ignore the current SHOW command settings and move forward *nnnn* segment occurrences irrespective of segment type.

Note: This can be made the default behavior by selecting:

"Use * (any segment type) as default on NEXT and PREVIOUS commands" on the Edit/Browse Options panel (see "Edit/Browse Options" on page 21).

segment-name

Move forward to the *nnnn*th occurrence of segment type *segment-name* from the current database position.

Notes:

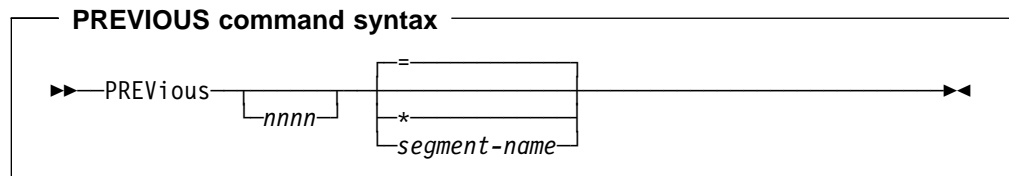
1. If the specified segment occurrence is not found the current database position is unchanged and the following message is displayed:

End of Data

2. Issuing a NEXT command may in some cases cause the top of the sliding window to move down (towards the bottom of the database).

PREVIOUS

The PREVIOUS primary command uses the parameters supplied to scroll the current database position to the previous occurrence of a segment type.



nnnn

Move back *nnnn* segment occurrences. The default for *nnnn* is 1.

= Behavior depends on the current SHOW command settings.

If the current setting is **SHOW SUP OFF**, scrolls back to the *nnnn*th occurrence of the same segment and layout type from the current database position (ie. the currently formatted segment and layout type).

If the current setting is **SHOW SUP ON**, scrolls back *nnnn* segment occurrences irrespective of the segment and layout types.

Notes:

1. This is the previous behavior of the PREVIOUS command in SNGL format.
2. = is the default unless the option:

"Use * (any segment type) as default on NEXT and PREVIOUS commands"

 is selected on the Edit/Browse Options panel (see "Edit/Browse Options" on page 21).
- * Ignore the current SHOW command settings and scroll back *nnnn* segment occurrences irrespective of segment and layout type.

Note: This can be made the default behavior by selecting:

"Use * (any segment type) as default on NEXT and PREVIOUS commands" on the Edit/Browse Options panel (see "Edit/Browse Options" on page 21).

segment-name

Scroll back to the *nnnn*th occurrence of segment type *segment-name* from the current database position.

Notes:

1. If the specified segment occurrence is not found the current database position is unchanged.
2. If a sliding window has been used for the edit/browse display, the current top of the window is the limit to which the PREVIOUS command can move the database position.

Using NEXT/PREVIOUS in Different Display Formats

The following sections provide examples showing the effect of using the NEXT and PREVIOUS primary commands in the various edit/browse display formats supported by File Manager IMS.

TABL Format

The following screens show the effect of the NEXT primary command when using a TABL formatted display. These examples are using the IVP database DJ1G.

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==> next 2 shrlsub           Scroll CSR
                                     Format TABL
                                     Show Sup OFF
Cmd Level Segment SHIRE-NAME SHIRE-TYPE SHIRE-CODE1 SHIRE-CODE2
#3 #4 #5 #6
AN 1:20 AN 21:1 ZD 22:3 ZD 25:5
<-----1-----> <--> <----->
___ 1 SHIRE BROOME 1 410 111
___ 2 SHIRENP 1 segment
___ 2 SHRLSUB Key=BROOME
___ 3 SUBLSTR 233 segments
___ 2 SHRLSUB Key=BROOME SHIRE
___ 3 SUBLSTR 3 segments
___ 1 SHIRE DENMARK 1 610 211
___ 2 SHIRENP 1 segment
___ 2 SHRLSUB Key=BOW BRIDGE
___ 3 SUBLSTR 7 segments
___ 2 SHRLSUB Key=DENMARK
___ 3 SUBLSTR 254 segments
___ 2 SHRLSUB Key=DENMARK SHIRE
F1=Help F2=Format F3=Exit F4=CRetrieve F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
    
```

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==>                           Scroll CSR
                                     Format TABL
                                     Show Sup OFF
Cmd Level Segment SHIRE-SUB-KEY SUBURB-NAME POST-CODE SUBURB-TYP
#2 #3 #4 #5
AN 1:18 AN 19:18 ZD 37:4 AN 41:1
<-----1-----> <-----1-----> <---->
=LG 2 SHRLSUB BROOME SHIRE BROOME SHIRE 0
___ 3 SUBLSTR 3 segments
___ 1 SHIRE Key=DENMARK Layout=SHIRE
___ 2 SHIRENP 1 segment
=LG 2 SHRLSUB BOW BRIDGE BOW BRIDGE 6333
___ 3 SUBLSTR 7 segments
=LG 2 SHRLSUB DENMARK DENMARK 6333
___ 3 SUBLSTR 254 segments
=LG 2 SHRLSUB DENMARK SHIRE DENMARK SHIRE 0
___ 3 SUBLSTR 73 segments
=LG 2 SHRLSUB EOW BRIDGE EOW BRIDGE 0
___ 3 SUBLSTR 2 segments
___ 2 SHRLSUB GOLDEN HILL GOLDEN HILL 6333
___ 3 SUBLSTR 2 segments
F1=Help F2=Format F3=Exit F4=CRetrieve F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel
    
```

SNGL Format

The following screens show the effect of the PREVIOUS primary command when using a SNGL formatted display.

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==> prev shirenp             Length error
                                     Scroll CSR
                                     Format SNGL
                                     SHOW SUP OFF
Segment SHRLSUB Testing KF21405 Level: 2
Concatenated key value: BROOME BROOME SHIRE
Current type is SHIRE-LINK-SUBURB Top Field is 1 of 12
Ref Rdf Field Typ Len Data
#2 SHIRE-SUB-KEY AN 18 K BROOME SHIRE
#3 SUBURB-NAME AN 18 BROOME SHIRE
#4 POST-CODE ZD 4 0
#5 SUBURB-TYPE AN 1
#6 PUBLIC-PHONE AN 4 B652
#7 DISTANCE-2-PERTH ZD 4 137
#8 CLOSEST-CENTRE AN 14
#9 DISTANCE-2-CENTRE ZD 3 55
#11 LATITUDE-DEGREE ZD 2 34
#12 LATITUDE-MINUTE ZD 2 56
#13 LONGITUDE-DEGREE ZD 3 117
#14 LONGITUDE-MINUTE ZD 2 54
**** End of record ****
F1=Help F2=Format F3=Exit F4=CRetrieve F5=RFind F6=RChange
F7=Up F8=Down F9=Swap F10=Previous F11=Next F12=Cancel
    
```

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==>                          Show Sup OFF          Scroll CSR
                                      Level: 2              Format SNGL

Segment SHIRENP
Concatenated key value: BROOME
Current type is SHIRE-NON-PUBLIC      Top Field is 1    of 3
Ref Rdf Field          Typ  Len  Data
#3  PREFIX             BI   4  444444450
#4  NOFIX              BI   4  10295
#5  SUFFIX             PD   3  460.00
**** End of record ****

F1=Help      F2=Format   F3=Exit     F4=CRetriev F5=RFind    F6=RChange
F7=Up        F8=Down     F9=Swap     F10=Previous F11=Next    F12=Cancel
    
```

CHAR/HEX/LEHX Format

The following screens show the effect of the NEXT primary command when using a CHAR unformatted display. The same effect applies when using a HEX or LEHX unformatted display.

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==> next 2 shrlsub           Show Sup OFF          Scroll CSR
                                      Col 1              Format CHAR

Cmd Level Segment  -----1-----2-----3-----4-----5-----
--- 2 SHIRENP      '.....'
--- 2 SHRLSUB    Key=BROOME
--- 3 SUBLSTR    233 segments
--- 2 SHRLSUB    Key=BROOME SHIRE
--- 3 SUBLSTR    3 segments
--- 1 SHIRE      Key=DENMARK                      Layout=SHIRE
--- 2 SHIRENP    .....
--- 2 SHRLSUB    Key=BOW BRIDGE
--- 3 SUBLSTR    7 segments
--- 2 SHRLSUB    Key=DENMARK
--- 3 SUBLSTR    254 segments
--- 2 SHRLSUB    Key=DENMARK SHIRE
--- 3 SUBLSTR    73 segments
--- 2 SHRLSUB    2 segments
--- 3 SUBLSTR    2 segments
--- 2 SHRLSUB    Key=HAZELVALE
F1=Help      F2=Format   F3=Exit     F4=CRetriev F5=RFind    F6=RChange
F7=Up        F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
    
```

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==>                          Show Sup OFF          Scroll CSR
                                      Col 1              Format CHAR

Cmd Level Segment  -----1-----2-----3-----4-----5-----
=LG 2 SHRLSUB    BROOME SHIRE  BROOME SHIRE  0000 B6520137
--- 3 SUBLSTR    3 segments
--- 1 SHIRE      Key=DENMARK                      Layout=SHIRE
--- 2 SHIRENP    1 segment
=LG 2 SHRLSUB    BOW BRIDGE    BOW BRIDGE    6333 B1630000
--- 3 SUBLSTR    7 segments
=LG 2 SHRLSUB    DENMARK       DENMARK       6333 D5620364ALBANY
--- 3 SUBLSTR    254 segments
=LG 2 SHRLSUB    DENMARK SHIRE DENMARK SHIRE 0000 D5620526
--- 3 SUBLSTR    73 segments
=LG 2 SHRLSUB    EOW BRIDGE    EOW BRIDGE    0000 0000
--- 2 SHRLSUB    GOLDEN HILL   GOLDEN HILL   6333 G4350000
--- 3 SUBLSTR    2 segments
=LG 2 SHRLSUB    HAZELVALE     HAZELVALE     6333 H2410000
--- 3 SUBLSTR    5 segments
=LG 2 SHRLSUB    KENT RIVER    KENT RIVER    6333 K5360000
F1=Help      F2=Format   F3=Exit     F4=CRetriev F5=RFind    F6=RChange
F7=Up        F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
    
```



```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G           Length error
Command ==> 1 phone                   Scroll CSR.
                                         SHOW SUP OFF                       Format SNGL
Segment SHRLSUB  Testing KF21405  Level: 2
Concatenated key value: BROOME          BROOME SHIRE
Current type is SHIRE-LINK-SUBURB      Top Field is 10  of 12
Ref Rdf Field          Typ Len  Data
#12  LATITUDE-MINUTE  ZD  2  56
#13  LONGITUDE-DEGREE ZD  3  117
#14  LONGITUDE-MINUTE ZD  2  54
**** End of record ****

F1=Help    F2=Format  F3=Exit   F4=CRetriev F5=RFind   F6=RChange
F7=Up      F8=Down    F9=Swap   F10=Previous F11=Next   F12=Cancel
    
```

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G           Field not found
Command ==> 1 prev phone                Scroll CSR
                                         SHOW SUP OFF                       Format SNGL
Segment SHRLSUB  Testing KF21405  Level: 2
Concatenated key value: BROOME          BROOME SHIRE
Current type is SHIRE-LINK-SUBURB      Top Field is 10  of 12
Ref Rdf Field          Typ Len  Data
#12  LATITUDE-MINUTE  ZD  2  56
#13  LONGITUDE-DEGREE ZD  3  117
#14  LONGITUDE-MINUTE ZD  2  54
**** End of record ****

F1=Help    F2=Format  F3=Exit   F4=CRetriev F5=RFind   F6=RChange
F7=Up      F8=Down    F9=Swap   F10=Previous F11=Next   F12=Cancel
    
```

```

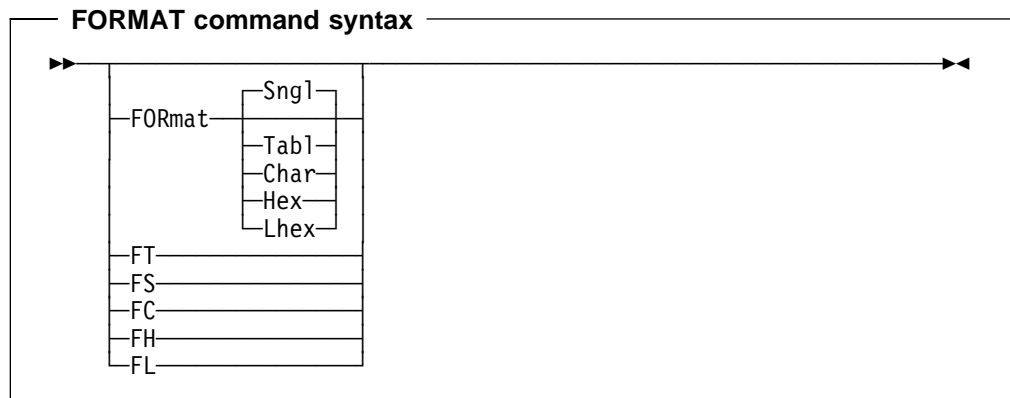
Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G           Length error
Command ==>                             Scroll CSR
                                         SHOW SUP OFF                       Format SNGL
Segment SHRLSUB  Testing KF21405  Level: 2
Concatenated key value: BROOME          BROOME SHIRE
Current type is SHIRE-LINK-SUBURB      Top Field is 5   of 12
Ref Rdf Field          Typ Len  Data
#6   PUBLIC-PHONE     AN  4  B652
#7   DISTANCE-2-PERTH ZD  4  137
#8   CLOSEST-CENTRE  AN  14
#9   DISTANCE-2-CENTRE ZD  3  55
#11  LATITUDE-DEGREE  ZD  2  34
#12  LATITUDE-MINUTE  ZD  2  56
#13  LONGITUDE-DEGREE ZD  3  117
#14  LONGITUDE-MINUTE ZD  2  54
**** End of record ****

F1=Help    F2=Format  F3=Exit   F4=CRetriev F5=RFind   F6=RChange
F7=Up      F8=Down    F9=Swap   F10=Previous F11=Next   F12=Cancel
    
```

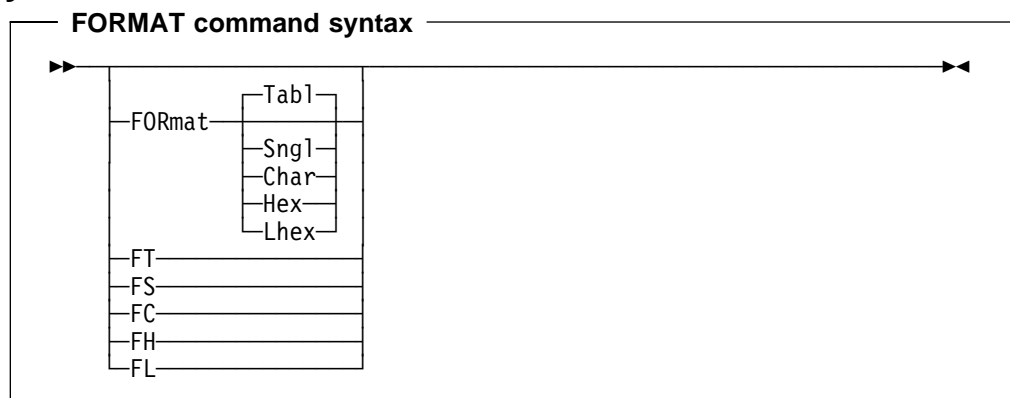
FORMAT Primary and Line Commands

A new FORMAT primary command has been provided allowing the user to change the current display format without having to overtype the FORMAT field. Equivalent line commands are also provided. If no format type is supplied, the default depends on the current display format.

In display formats other than SNGL



In SNGL display format



Tabl, FT

Change format to TABL mode. Only available if a view has been used.

Sngl, FS

Change format to SNGL mode. Only available if a view has been used.

Char, FC

Change format to CHAR mode.

Hex, FH

Change format to HEX mode.

Lhex, FL

Change format to LHEX mode.

The abbreviated forms of the FORMAT primary command are also available as line commands.

Using one of the above as a line command against a displayed segment occurrence is effectively be the same as scrolling that segment to the top of the display, issuing a view for that line (if it is other than the current layout) and changing format.

These line commands address the following Marketing Field Requirement:

- MR1121022328

Keylist Changes

Keylists associated with data display panels are updated to replace the ZOOM pfkey with the command FORMAT. This allows the type of format desired to be entered on the command line and the pfkey used to switch formats to a non-default format.

Using the FS Line Command on a Shadow Line

The following screens show how the FS line command can be used on a TABL formatted display to display the data for a segment represented by a shadow line. In this case the shadow line is for a group of 3 SUBLSTR segments. The data for the first of the 3 SUBLSTR segments is displayed on the SNGL panel.

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G
Command ==>>                         Show Sup OFF          Col 1          Scroll CSR.
                                       Format CHAR
Cmd Level Segment  -----1-----2-----3-----4-----5-----
=LG 2  SHRLSUB  BROOME SHIRE  BROOME SHIRE  0000 B6520137
fs_ 3  SUBLSTR  3 segments
--- 1  SHIRE    Key=DENMARK                               Layout=SHIRE
--- 2  SHIRENP  1 segment
=LG 2  SHRLSUB  BOW BRIDGE   BOW BRIDGE   6333 B1630000
--- 3  SUBLSTR  7 segments
=LG 2  SHRLSUB  DENMARK     DENMARK     6333 D5620364ALBANY
--- 3  SUBLSTR  254 segments
=LG 2  SHRLSUB  DENMARK SHIRE  DENMARK SHIRE  0000 D5620526
--- 3  SUBLSTR  73 segments
=LG 2  SHRLSUB  EOW BRIDGE   EOW BRIDGE   0000 0000
=LG 2  SHRLSUB  GOLDEN HILL  GOLDEN HILL  6333 G4350000
--- 3  SUBLSTR  2 segments
=LG 2  SHRLSUB  HAZELVALE   HAZELVALE   6333 H2410000
--- 3  SUBLSTR  5 segments
=LG 2  SHRLSUB  KENT RIVER  KENT RIVER   6333 K5360000
F1=Help  F2=Format  F3=Exit  F4=CRetriev  F5=RFind  F6=RChange
F7=Up    F8=Down   F9=Swap  F10=Left   F11=Right F12=Cancel
    
```

```

Process  Options  Help
-----
FM/IMS                               Edit : IMS Database DJ1G          Length error
Command ==>>                         SHOW SUP OFF          Scroll CSR
                                       Format SNGL
Segment SUBLSTR                               Level: 3
Concatenated key value: BROOME          BROOME SHIRE          EIGHTY MILE
Current type is SUBURB-LINK-STREET      Top Field is 1 of 7
Ref Rdf Field                               Typ Len Data
#3  SUB-STREET-NAME  AN  18 K EIGHTY MILE BEACH
#4  SUFFIX           AN   4 K
#5  DIRECTION        AN   1 K
#7  STREET           AN  18 RD  EIGHTY MILE B
#8  SUFFIX           AN   4 EACH
#9  DIRECTION        AN   1
#10 EMERGENCY-PHONE AN   4
**** End of record ****

F1=Help  F2=Format  F3=Exit  F4=CRetriev  F5=RFind  F6=RChange
F7=Up    F8=Down   F9=Swap  F10=Previous F11=Next  F12=Cancel
    
```

Edit/Browse Options

Two new options have been added to the Edit/Browse Options panel allowing the user to configure the default behavior for the NEXT and PREVIOUS commands and the user preference for the SHOW command setting. The following screen shows the new options.

```

Process  Options  Help
-----
FM/IMS                               Edit/Browse Options
Command ==>>

Enter "/" to select option
  Translate data in data area to uppercase on input
/ Show field reference number of SNGL display
/ Show field type and length values on SNGL display
Use * (any segment type) as default on NEXT and PREVIOUS commands
Set SHOW SUP ON, exposing suppressed groups as default

F1=Help   F2=Split   F3=Exit   F4=CRetriev  F7=Backward  F8=Forward
F9=Swap   F10=Actions F12=Cancel

```

The new option

"Use * (any segment type) as default on NEXT and PREVIOUS primary commands"

allows the user to set the default for the NEXT and PREVIOUS commands such that they ignore the SHOW command settings and move the current database position irrespective of the segment type for the currently formatted segment.

For more information on the NEXT command see "NEXT" on page 13.

For more information on the PREVIOUS command see "PREVIOUS" on page 14.

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