

EEEEEEEEE VV VV LL DDDDDDDDD EEEEEEEEEE FFFFFFFFFF
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.TITLE EVLDEF Network Event Logger Definitions
.IDENT 'V04-000'

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FACILITY: DECnet-VAX Network Management Components
for Event Logging

ABSTRACT:

Common Definitions for Network Management Event Logging
These definitions are private to the EVL component.

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Darrell Duffy, Tim Halvorsen, 13-June-1980

MODIFIED BY:

V005	MKP0001	Kathy Perko	27-June-1984
	Now that OPCOM can handle more than 256 bytes, increase the length fields for opcom message from a byte to a word.		
V004	TMH0004	Tim Halvorsen	20-Jul-1983
	Increase amount of storage allocated for event transmitter NCB.		
V003	TMH0003	Tim Halvorsen	25-Jun-1981
	Add two event flag symbols.		
V002	TMH0002	Tim Halvorsen	20-Nov-1980

Change definition of second byte of source data structure in the filter database from a sink mask to a sink number (which is what NML is using).

V001 TMH0001 Tim Halvorsen 17-Nov-1980
Add descriptor of previous line output for console formatting routines.

General definitions

\$STRUCT EVL

```
C      <  
SYNCH_EFN,1           ; Event flag used for synchronous I/O  
ASYNCR_EFN,2           ; Event flag used for asynchronous I/O  
MAXEVTCNT,200          ; Maximum number of events in a queue  
                         ; for the transmitter  
>
```

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Processed event record structure

\$STRUCT EVT

```
F      FUNCTION,B           ; Function code (= 1)  
F      FLAGS,B             ; Indicates which sinks receive record  
F      CODE,W              ; Event code  
V      <M  
TYPE,6                ; Event type within class (see EVCDEF)  
CLASS,9                ; Event class (see EVCDEF)  
'1  
>  
F      JULIAN,W            ; Time: Julian half-days since 1-Jan-77  
F      SECONDS,W           ; Second within half-day  
F      MSECS,W             ; Milliseconds within second  
F      SRCADR,W            ; Source node address  
F      SRCNAMLEN,B          ; Source node name length  
F      SRCNAM,T,1           ; Source node name string (max 6 bytes)  
                           ; Event entity follows, type and ID  
                           ; Event specific data follows
```

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Data block descriptor

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\$STRUCT DBK

F FL ; Forward link in queue
F BL ; Backward link in queue
F SIZE,W ; Size of structure
L E SIZE

;

Event Queue block

;

\$STRUCT EVQ

F FL ; Forward link
F BL ; Backward link
F SIZE,W ; Size of structure
F EVTSIZE,W ; Bytes in the event
F EVENT,T,O ; Start of event data
L E SIZE

Structures used in the event transmitter

AST Parameter Control Block

```
$STRUCT ASP
F   FL, L          ; Forward link
F   BL, L          ; Backward link
F   SIZE, W         ; Size of structure
FF  NETCHAN, W     ; Channel to net device
FF  IOSB, W         ; IO status block
FF  IOSB1, W        ; Remainder of iosb
FF  IOSB2, L
FILE ROUTINE, L    ; address of routine to perform
FILE DATA, T, 0     ; Data area address
SIZE
```

Sink control block structure, provides the context for the outgoing logical links from the event transmitter.

\$STRUCT SNK

```
F   FL, L          ; Forward link
F   BL, L          ; Backward link
F   SIZE, W         ; Size of structure
FF  NETCHAN, W     ; Channel to net device
FF  IOSB, W         ; IO status block
FF  IOSB1, W        ; Remainder of iosb
FF  IOSB2, L
FILE ROUTINE, L    ; address of routine to perform
FILE SNKADR, L     ; Address of sink node
FILE SRCFL, L      ; Head of source list
FILE SRCBL, L
FILE EVTFL, L       ; Head of event queue
FILE EVTBL, L
FILE EVTCNT, W      ; Number of events on the queue
FILE STATUS, B       ; Status of logical link to node
<M
STS_OPN, 1          ; Link is open
STS_BSY, 1          ; Some action in progress
STS_BKD, 1          ; Back door in use
STS_DEL, 1          ; Delete on close
STS_CLS, 1          ; Close and delete
STS_TMR, 1          ; Close on non-use timer outstanding
>
FILE SNKLOS, B      ; Sink mask for lost events
FILE SNKLEN, L      ; Descriptor of ncb
FILE SNKNCB, A
FILE SNKNCB, T, 64   ; NCB of link
SIZE
```

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Source descriptor block

```
$STRUCT SRC
F   FL, L          ; Forward link
F   BL, L          ; Backward link
F   SIZE, W         ; Size of structure
F   SNKTYPE, B      ; Sink type
F   SRCTYP, B       ; Source type code
F   SRCID, T, 18    ; Source name
F   FILTERS, W       ; Number of filters
F   FILTERS, T, 0     ; Start of filters
FILE
SIZE
```

Filter descriptor

```
$STRUCT FLT
F   CLASS, W        ; Class of event
V   <M
CLASS, 9            ; Class code
F   5                ; Wild card code
>
F   WLDCOD, 2       ; Filler
F   , W              ; Type mask to log
FILE
TYPESLOG, Q         ; Type mask to filter
TYPESFIL, Q
SIZE
```

Define structures used by the receiver

Define sink type descriptor block

\$STRUCT SINK

```

F     LINK          ; Queue links
F     BLINK         ; Type of sink
C     <
C     ACTIVE,254   ; Active sink types
C     KNOWN,255    ; Known sink types
C     CONSOLE,1     ; Console sink
C     FILE,2        ; File sink
C     MONITOR,3    ; Monitor process sink
C     >
C     STATE,B
C     <
C     ON            ; Sink is on
C     OFF           ; Sink is off, ignore all events
C     HOLD          ; Sink is holding all events until turned on
C     >
F     EVENTS,W     ; Number of events on queue
F     EVTFL         ; Queue head of event data blocks
F     EVTBL         ; Queue tail of event data blocks
F     FLAGS,B      ; Flags
V     <M
V     DELETE        ; Indicates sink should be deleted when the
V     : events queued for this sink are output
V     : "error" state; all events are ignored to
V     : this sink until a data base change
V     >
F     ,B,1
F     MAXBUFSIZ,W  ; Maximum size of buffer (OPCOM monitor only)
F     BUflen,W      ; Bytes currently in buffer (OPCOM monitor only)
F     BUFFER         ; Address of buffer (OPCOM monitor only)
F     RAB            ; Address of RAB/FAB storage block (file only)
S     CHANNEL,0,W   ; Channel for I/O (monitor only)
F     CLOSERTN      ; Address of routine to perform close
F     : nonzero if sink has been initialized
F     IOSB,W         ; I/O status block specific to this sink
F     IOSB1,W
F     IOSB2,L
F     NAMELEN,B     ; Length of sink name string
F     NAME,T,255     ; Sink name string
L     LENGTH         ; Length of sink descriptor block

```

Define incoming event channel context block

\$STRUCT IEC

F	LINK	: Forward link
F	BLINK	: Backward link
F	SIZE,W	: Size of entire structure
F	CHAN,W	: Network incoming channel number
F	IOSB,W	: I/O status block
F	IOSB1,W	
F	IOSB2,L	
F	NCBLEN,B	: Length of NCB
F	NCB,T,64	: NCB for incoming link
C	MAXNCBLEN,64	
F	EVENT,T,250	: Buffer for event record
C	MAXEVTLLEN,250	
L	LENGTH	: Fixed length of structure
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Define the bits for controlling messages to the batch log
of the event processor.

\$STRUCT ELG

V <M

DBUPDAT, 1 ; Data base updates for transmit or receive
SNKOPN, 1 ; Link to sink node opened
RCVCCF, 1 ; Link confirmed by receiver
MONOPN, 1 ; Link opened to event monitor
RAWEVT, 1 ; Text of raw event
QUEEVT, 1 ; Text of event queued to sink
RCVEVT, 1 ; Text of event received by receiver

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;; Counter descriptor list entry

\$STRUCT CTB

F PCODE, W ; Parameter code for counter
F OFFSET, W ; Offset in counter block
F WIDTH, B ; Width of counter in bits
F ADDQ, B ; True for accumulate counter
F BITMAP, W ; Bitmap mask for this counter
L SIZE ; Total size of structure

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;; Line id conversion table entry

\$STRUCT VDL ; VMS to DNA Line table

F VMS, A ; Address of vms name counted string
F DNA, A ; Address of dna name counted string
F TYP, B ; Type mask for
<M
PNT ; point to point lines
MUX ; multiplexed lines
MPT ; multipoint lines
>
F COEF, B ; Unit/tributary coefficient
; Unit = vms unit / coef
; trib = vms unit mod coef
L SIZE ; size of structure

E

:::
IOSB fields

\$STRUCT IOSB

FFL STS, W ; Primary status
FFL CNT, W ; Normally size of transfer
FFL STS2, W ; Secondary status
FFL STS3, W ; Tertiary status
SIZE

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:::
End of EVLDEF.MDL

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