

.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

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
      MAXEVCNT,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
...

\$STRUCT DBK

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

...
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 SIZE
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: Structures used in the event transmitter
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: AST Parameter Control Block
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$STRUCT ASP
F FL, L           ; Forward link
F BL, L           ; Backward link
F SIZE, W         ; Size of structure
F NETCHAN, W      ; Channel to net device
F IOSB, W         ; IO status block
F IOSB1, W        ; Remainder of iosb
F IOSB2, L
F ROUTINE, L      ; address of routine to perform
F DATA, T, 0    ; Data area address
L 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
F NETCHAN, W      ; Channel to net device
F IOSB, W         ; IO status block
F IOSB1, W        ; Remainder of iosb
F IOSB2, L
F ROUTINE, L      ; address of routine to perform
F SNKADR, L       ; Address of sink node
F SRCFL, L        ; Head of source list
F SRCBL, L
F EVTFL, L        ; Head of event queue
F EVTBL, L
F EVTCNT, W       ; Number of events on the queue
F STATUS, B       ; Status of logical link to node
V <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
>
F SNKLOS, B       ; Sink mask for lost events
F SNKLEN, L       ; Descriptor of ncb
F SNKNCB, A
F SNKNCB, T, 64   ; NCB of link
L 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
L SIZE
E

```

Filter descriptor

```

$STRUCT FLT
F CLASS, W        ; Class of event
V <M
CLASS, 9          ; Class code
  S
WLD COD, 2        ; Wild card code
  >
F . W             ; Filler
F TYPESLOG, 0     ; Type mask to log
F TYPESFIL, 0     ; Type mask to filter
L SIZE
E

```

```

:
: Define structures used by the receiver
:

```

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:
: Define sink type descriptor block
:

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$STRUCT SINK

```

```

F   LINK           ; Queue links
F   BLINK
F   TYPE,B        ; Type of sink
C   <
    ACTIVE,254    ; Active sink types
    KNOWN,255    ; Known sink types
    CONSOLE,1    ; Console sink
    FILE,2       ; File sink
    MONITOR,3    ; Monitor process sink
    >
F   STATE,B
C   <
    ON           ; Sink is on
    OFF          ; Sink is off, ignore all events
    HOLD        ; Sink is holding all events until turned on
    >
F   EVENTS,W      ; Number of events on queue
F   EVTFL         ; Queue head of event data blocks
F   EVTBL
F   FLAGS,B      ; Flags
V   <M
    DELETE      ; Indicates sink should be deleted when the
                ; events queued for this sink are output
    ERROR      ; "error" state; all events are ignored to
                ; this sink until a data base change
    >
F   ,B,1
F   MAXBUFSIZ,W  ; Maximum size of buffer (OPCOM monitor only)
F   BUFLN,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   CLUSERTN     ; Address of routine to perform close
                ; nonzero if sink has been initialized
                ; I/O status block specific to this sink
F   IOSB,W
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
E

```

```

:
: 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      NCBLN,B   ; Length of NCB
F      NCB,T,64  ; NCB for incoming link
C      MAXNCBLN,64
F      EVENT,T,250 ; Buffer for event record
C      MAXEVLN,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.
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\$STRUCT ELG

V <M

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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
RAW EVT,      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
:

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\$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
V      <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

F	STS, W	:	Primary status
F	CNT, W	:	Normally size of transfer
F	STS2, W	:	Secondary status
F	STS3, W	:	Tertiary status
L	SIZE		

E

:
: End of EVLDEF.MDL
:

