4.6 SNA/MS Alerts

4.6.1 DLUR Protocol Errors

The following conditions are covered by a single alert indicating that the DLUR-DLUS communication has been disrupted because a protocol error has been detected.

- GDS Variable Other Than X′1500′ Received After RECEIVE_ENCAP Attach

  If the Receive_Encap_Msg_TP is attached and the GDS variable received is not X′1500′, the DLUR will send an UNBIND request with sense data X′1001 0000′.

- Received GDS Variable X′1500′ Without CV X′60′

  Any path information unit (PIU) request encapsulated in a GDS variable X′1500′ which does not include a CV X′60′ will be discarded. The sense data associated with this condition is X′086C 6000′, which is included in the alert to describe the problem, but is not actually returned in any message flows.

- Received GDS Variable X′1500′ (ACTPU Encapsulated) With Missing Or Incomplete CV X′46′

  Any ACTPU request encapsulated in a GDS variable X′1500′ which does not include a complete CV X′46′ (e.g., CV missing its signalling information or CV missing completely) will be rejected with sense data X′0806 0000′.

- Received GDS Variable X′1500′ (ACTPU Encapsulated) Without CV X′51′

  Any ACTPU request encapsulated in a GDS variable X′1500′ which does not include a CV X′51′ when one is expected (first ACTPU after the CP-SVR pipe is activated) will be rejected with sense data X′086C 5100′.

- Received GDS Variable X′1500′ (RSP(REQACTPU) Encapsulated) Without CV X′51′

  Any REQACTPU response encapsulated in a GDS variable X′1500′ which does not include a CV X′51′ when one is expected (first REQACTPU after the CP-SVR pipe is activated) will be rejected by rejecting the ensuing corresponding ACTPU with sense data X′086C 5100′.

- CPSVRMGR Session Over Non-TCP/IP LEN Connection

  If a CPSVRMGR session is established over a LEN connection which is not a connection into a TCP/IP network, the DLUS will send an UNBIND request with sense data X′0877 0056′.

4.6.1.1 APPN/DLUR Alert CPDL001

Alert Condition:

A protocol error was detected by the DLUR component of the APPN product, causing communications to be terminated. This alert covers sense data:

```
% X'0806 0000'
% X'086C 5100'
% X'086C 6000'
% X'0877 0056'
% X'1001 0000'
```

Alert ID Number		X'9E45 2D9C'
Alert Type	X'01'	Permanent
Alert Description	X'3122'	APPN-DLUR protocol error
Probable Causes	X'1023' X'1022'	Communication program in remote node Communication program
User Causes	(none)	
Install Causes	(none)	
Failure Causes	X'22A1' X'82' SF	Communications program in remote node: Data ID=X'82' (CP)
Actions (note 1)	X'3110' X'32C0' X'82' SF X'82' SF	Contact communications systems programmer Report the following: Data ID=X'15' (SNA sense data) Data ID=X'F0' (Product Alert Reference Code) (note 2)
Additional SVs	X'01' SV X'05' SV X'10' SF X'10' SV X'48' SV X'82' SF X'82' SF	Date/Time Hierarchy/Resource List Hierarchy Name List Sending node: Name=(CP name) Type=X'F4' (CP) Alert Sender Product Set ID Supporting Data Correlation (note 3) Data ID=X'D0' (File Name) Data ID=X'D1' (Log Record Number)

Notes:

1. The recommended actions listed here are simply *recommended*. An implementation is encouraged to select different recommended actions if they are more meaningful for a particular product. For example, it is possible to identify product-unique configuration parameters in some recommended actions.

2. The Product Alert Reference Code is a label that a product may provide as a key to more detailed documentation about the Alert. This documentation may also include detailed product diagnostic information, such as identifying those program modules involved in the detection of the error.

   An alternative to this latter use of the Product Alert Reference Code could be to include the detecting module name (data ID=X'A2').

3. The Supporting Data Correlation (X'48') SV is present to report that diagnostic data for this Alert was stored by the Alert sender. The X'48' SV provides a great deal of flexibility in terms of how supporting data may be identified. The use of "file name" and "log record number" shown here is just one example

that may not be appropriate for all implementations. If an implementation is unable to capture any supporting data, this subvector may be omitted.