% • (C.1.18.1.1, C.1.18.1.6) added to CV X′4696′ a destination MAC address for
% FRPVC

% • (C.1.18.1.3, C.1.18.1.4) updated V.25/V.25bis destination dial address and
% calling identification number information

% • (C.1.18.1.3, C.1.18.1.4, C.1.18.1.5, C.1.18.1.6) changed encodings of Token-Ring
% signalling information from canonical to noncanonical

% • (C.1.18.1.5) retired CV X′4695′ SDLC station role usage for SDLCNS and
% SDLCSW

The following revisions were made based on review comments to Document
Number SV40-1010-01/DLUR-8 (APPN DLUR Architecture Reference Version 1.2).
These changes are indicated by a pound sign (#) throughout the text.

• (global) introduced interdocument and intradocument links to the softcopy
version of this document

• (5.6.2.1.2, 5.6.2.1.3, 13.1.7, 13.4.6, now C.1.20.1, C.2.12) added a new nondis-
ruptive UNBIND-initiated CP-SVR pipe deactivation sense data to permit the
DLUR to immediately reinitiate CP-SVR pipe activation while requiring the
DLUR to select a different DLUS for the new pipe

• (5.6.3.2) updated the DLUR REQDISCONT processing to return a
RSP(REQDISCONT) upon receipt of RSP(REQDACTPU)

• (5.7.3.2) clarified the sense code used in -RSP(BIND) or UNBIND for
“surprise” CP-SVR pipe activation

• (new 5.8) added CP-SVR pipe performance considerations

• (new 6.1.5, 12.1.2, 13.1.7, now C.1.20.1) added the DLUR support for FID2
Encapsulation (X′1500′) GDS variable blocking

• (6.2, 6.2.1, 6.2.2, new 6.2.4, 6.3, 6.3.1, 6.3.3, 12.1.2, 13.1.2, 13.1.7, C.1.3.1,
C.1.3.1.1, now C.1.20.1) added the DLUR support for forwarding PU/LU names

• (8.1.2) updated the DLUR processing of CV X′0C′ on +RSP(ACTLU)

• (8.1.4) updated the DLUR processing to unextend an extended BIND

• (8.1.4) updated the DLUR BIND adaptive session pacing processing

• (8.1.5) updated the DLUR +RSP(BIND) processing to include the Route
Selection (X′2B′) control vector

• (8.2) updated the EN DLUR tail vector registration processing

• (8.2.1) updated the DLUS processing for setting the receipt of TDUs support
DLUS capability

• (13.3.1, C.1.8, new C.1.15) added the Route Selection (X′2B′) control vector to
the SESSST format X′03′ RU

• (appendix C) updated formats appendix, removing change bars for format
changes published in SNA Formats editions GA27-3136-15 and GA27-3136-16,
and adding section on information about common fields (which cleaned up
the unresolved references in the formats)

• (now C.1.19.1.1, now C.1.19.1.5) added an optional subfield for V.25bis desti-
nation dial address and calling identification number

1. There are active sessions between SSCP1 and PU2 and SSCP1 and LUa. These are the only active SSCP-PU and SSCP-LU sessions using the CP-SVR pipe between VTAM1 and ENa.
2.
3. SSCP1 initiates normal deactivation of its session with PU2 by building a DACTPU and passing it on to VTAM1.
4. ENa receives a REQDISCONT from PU2.
5. The DLUS node sends an FMH5 Attach to initiate the Receive_Encap_Msg_TP at the DLUR node.
6. The DLUR node sends an FMH5 Attach to initiate the Receive_Encap_Msg_TP at the DLUS node.
7. To signal to SSCP1 that its SSCP-PU session with PU2 should be deactivated, ENa builds a REQDACTPU with a cause value of X′01′, encapsulates it, and forwards it to VTAM1 on its CP-SVR pipe.
8. The DLUS VTAM1 encapsulates the DACTPU and forwards it to the DLUR ENa.
9.
10. ENa de-encapsulates the DACTPU and forwards it to PU2; this is done as part of the SSCP-PU session deactivation race condition processing - since the requester is in an awaiting RSP(REQDACTPU) state and it receives a DACTPU from the DLUS for that PU, it should accept and process that DACTPU request.
11. VTAM1 de-encapsulates the REQDACTPU and forwards it to SSCP1, having also recognized the SSCP-PU session deactivation race condition.
12. SSCP1 responds to the REQDACTPU positively, passing the RSP(REQDACTPU) on to VTAM1 and remaining in a DACTPU processing state.
13. The DLUS node sends an FMH5 Attach to initiate the Receive_Encap_Msg_TP at the DLUR node.
14. VTAM1 encapsulates the RSP(REQDACTPU) and forwards it to ENa; since it is still processing the DACTPU, the +RSP(REQDACTPU) will be accepted and DACTPU processing will continue.
15. PU2 deactivates the SSCP-PU session, converts the DACTPU into a positive RSP(DACTPU), and forwards it to ENa.
16. The DLUR node sends an FMH5 Attach to initiate the Receive_Encap_Msg_TP at the DLUS node.
17. ENa then encapsulates the RSP(DACTPU) and sends it to VTAM1.
18. ENa initiates DLC deactivation to PU2.
19. VTAM1 de-encapsulates the RSP(DACTPU) and forwards it to SSCP1.
20. VTAM1 also determines that there are now no active or pending SSCP-PU sessions on its CP-SVR pipe to ENa, so it sends an UNBIND to ENa on VTAM1′s conwinner session to begin deactivation of the pipe.
21. VTAM1 also sends an UNBIND on its conloser session to ENa.
22. The DLUR node sends a RSP(UNBIND) to the DLUS for the conwinner session and another RSP(UNBIND) for the conloser session. For more details on CP-SVR pipe deactivation see 5.6, “CP-SVR Pipe Deactivation” on page 5-20.

5.8 CP-SVR Pipe Performance Considerations

5.8.1 Pacing Considerations

It is recommended that DLUR products close their network priority pacing windows last (instead of the
more typical simultaneous closing of all pacing windows regardless of priority). Since SSCP-PU/LU
session activation and deactivation commands flow at network priority, they should be allowed to flow
as long as possible so that they can be used to help reduce network congestion.

5.9 Additional Error Cases

5.9.1 CP-SVR Pipe Limit Exceeded

DLUR products will have the option to limit the number of concurrently active CP-SVR pipes (what number will be selected as the limit will also be a product option). If a limit is implemented and reached, any attempts to activate additional CP-SVR pipes will be rejected by sending an UNBIND request with sense data X'0812 0000'.

5.9.2 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'.

5.9.3 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'.