- When a DLUR receives a +RSP(BIND) for a dependent LU and there is no active CP-SVR pipe servicing that dependent LU, the DLUR should try to activate a CP-SVR pipe. When the CP-SVR pipe is activated, the SESSST should not be sent on the new CP-SVR pipe. The active LU-LU session awareness information will be sent to the SSCP in the DLUS by way of the CV X′2A′ added to the +RSP(ACTLU) by the DLUR (see 10.1.2, "DLUR/S Dependent LU Session Awareness" on page 10-2 for more information on session awareness).

and the +RSP(BIND) will be forwarded to the appropriate internal or external component.

8.1.6 LU-LU Session Deactivation

When the DLUR node receives a -RSP(INIT-SELF) or detects a link failure affecting an LU-LU session, it will discard the saved URC and the saved PLU name associated with the dependent LU.

When the DLUR node receives a -RSP(BIND), UNBIND, or detects a link failure affecting an LU-LU session, it will reset the session count for the associated dependent LU to zero.

% The UNBIND will be unextended if necessary, based on the extended BIND support indicators in the CV
% X′0C′ in the +RSP(ACTLU) - this involves:

% • ***all UNBIND types except X′FE′*** **-** truncating the UNBIND RU to only the request code plus the
% UNBIND type;

% • ***UNBIND type X′FE′*** **-** truncating the UNBIND RU to only the request code, the UNBIND type, and
% the sense data.

% No reextending of the RSP(UNBIND) is required.

8.2 DLUR EN Tail Vector Registration

In order for the DLUS node to send Locate Find/Found flows with the appropriate associated resource hierarchy as described above, it will have to know the DLUR tail vectors. In the case where the DLUR node is a NN this will not be necessary. The EN DLUR node will be required to register its tail vectors with the DLUS node; this registration will be done only when the DLUS and DLUR are in the same subnet.

DLUR tail vector registration will involve sending TOPOLOGY_DATABASE_UPDATEs (TDUs) to the DLUS node:

% 1. at initial TGV registration,

% a. if the DLUR and the DLUS are adjacent, then the DLUR may optionally send the TDUs over the
% CP-CP session between the two nodes

% b. otherwise the TDUs will be sent over the CP-SVR pipe to the DLUS node

% 2. if the CP-SVR pipe is selected for initial registration:

% a. continue to use it for subsequent TGV registration even if a CP-CP session between adjacent
% DLUR and DLUS is activated later

% b. if the CP-SVR pipe fails, once the pipe is reactivated (to either the same or a different DLUS),
% return to step 1 and send all tail vectors

% 3. if the CP-CP session is selected for initial registration:

% a. continue to use it for subsequent TGV registration

% b. if the CP-CP session fails, return to step 1 and send all tail vectors

% c. if the CP-SVR pipe fails, once the pipe is reactivated (to either the same or a different DLUS),
% return to step 1 and send all tail vectors

The DLUS node will receive, but not propagate, these TDUs.

This will require the DLUR and DLUS CPs to be modified such that the TDU send and receive TPs can also run over the CP-SVR pipe using the CPSVRMGR mode. No special CP-SVR pipe should be brought up for this purpose. The existing CP-SVR pipe should be used. Since a DLUR may have CP-SVR pipes with multiple DLUS nodes, these TDUs must be sent over each CP-SVR pipe to each partner DLUS node.

8.2.1 DLUR/S Capabilities Exchange

TDUs can be sent on the pipe any time after CP-SVR pipe activation completes. Activation includes the exchange of DLUR/S Capabilities control vectors, so TDUs can be sent by the DLUR after:

- DLUR-initiated pipe activation: receipt of +RSP(REQACTPU) from DLUS
- DLUS-initiated pipe activation: transmission of +RSP(ACTPU) to DLUS

Included within the DLUR/S Capabilities control vector are fields relevant to EN tail vector registration:

- a Flow Reduction Sequence Number (FRSN) -
  - the DLUR will always set this field to zero in the DLUR/S Capabilities control vector; this will tell the DLUS to throw away any tail vectors previously registered by this DLUR;
  - the DLUS will set this field to the last FRSN value received from the DLUR;
- an indicator for support of the RECEIVE_TDU_TP (X′22F0F0F4′) service transaction program - when set, the sending node supports receipt of TDUs on this session
  - the DLUS should set this indicator on;
  - the DLUR should set this indicator off.

8.2.2 Initial EN Tail Vector Registration

After CP-SVR pipe activation, the DLUR will send all of its tail vectors to the DLUS (for more information, see “Processing CP_STATUS Signals” in the *SNA APPN Architecture Reference*).

The DLUS will process the received TDUs as described in “TDU Processing” in the *SNA APPN Architecture Reference*, with one exception: these TDUs should not be propagated to other NNs.

8.2.3 EN Tail Vector Registration Updates

When there is a change to a previously registered tail vector, the DLUR will send an update TDU to the DLUS (for more information, see “Processing Resource Updates” in the *SNA APPN Architecture Reference*).

The DLUS will process the received TDUs as described in “TDU Processing” in the *SNA APPN Architecture Reference*, with one exception: these TDUs should not be propagated to other NNs.

12.1.3 EN TGV Reporting

DLUR ENs will be required to report their TGVs up to the DLUS node only if the DLUR and the DLUS are in the same subnet. These TDUs will be sent as events that effect them occur. In the case where the DLUR and the DLUS are non-adjacent (or no CPSVCMG session exists between them), these TDUs will flow over the CP-SVR pipe. In the case where the DLUR and DLUS are also connected via a CPSVCMG
% session, these TDUs may optionally flow over the CP-CP session or over the CP-SVR pipe.

% 12.1.4 LU-LU BIND/UNBIND Processing

% 1. Provide reformating services:

% • Unextend extended BINDs destined for nodes that do not support receipt of such BINDs.

% • Reextend unextended +RSP(BIND)s when the corresponding BIND request was unextended.

% • Convert short +RSP(BIND)s into extended short form +RSP(BIND)s.

% • Unextend extended UNBINDs destined for nodes that do not support receipt of extended BINDs -
% no reextending of the +RSP(UNBIND) is required.

2. Remove NETIDs from LU names in BINDs destined for nodes that do not support network-qualified names.

3. Replace PLU names in BINDs destined for nodes which specified a PLU name in the INIT-SELF different from the PLU name received in the BIND.

4. Reject BINDs received for already active dependent LUs.

% 5. Properly set the Whole BIUs Required Indicator (WBRI) in the RSP(BIND) dependent on the segment
% reassembly capabilities of the DLUR BF.

6. Properly set the adaptive session pacing indicator in the BIND and +RSP(BIND) for the REX and APPN stages and set the REX stage pacing window size in the BIND when required.

7. Route BINDs to the destination PU/LU based upon the SLU name specified in the NS field of the BIND and information maintained in the SLU name table.

8. Perform intermediate routing functions when the LU is located on a downstream PU. This includes:

   • Intermediate routing function

   • Session outage notification

   • Maintaining pacing counts/indicators in both directions

12.1.5 Session Awareness Reporting

In order to assist the DLUS node in providing session limit management, the DLUR node must provide the DLUS node with session awareness data. The DLUR node will be required to:

1. Upon receipt of a positive RSP(ACTLU) from the attached dependent LU, if the dependent LU has an active LU-LU session, the DLUR must build a Session Information (X′2A′) control vector, append it to the RSP(ACTLU), and send the RU to the SSCP by encapsulating the RU and sending it on the CP-SVR pipe to the DLUS.

2. Upon receipt of a positive RSP(BIND) from the attached dependent LU, the DLUR must build a SESSST RU and send it to the SSCP by encapsulating the RU and sending it on the CP-SVR pipe to the DLUS.