pass a BIND to an LU whose current session count is zero (maximum session count value for a dependent LU is one).

The DLUR will zero out all indicators (ACTLU RU byte 1) except the type activation requested field (bits 6-7). Other indicators have been defined (and appear in the licensed formats) for use by the NCP BF and are not recognized by the LU; the NCP BF zeroes out these indicators and so will the DLUR.

The DLUR will remember the function management (FM) and transmission services (TS) profiles (which together make up ACTLU RU byte 2). This information will be used when converting a 2 byte RSP(ACTLU) into a 3 byte RSP(ACTLU).

The DLUR will remember two fields from the Assign LU Characteristics (X′30′) control vector included in the GDS variable encapsulating the ACTLU. The following fields will be used in processing a BIND for adaptive session pacing and for window size setting:

- Route extension (REX) stage pacing parameter (byte 4, bit 0)
- REX stage pacing window size (byte 4, bits 2-7)

8.1.2 +RSP(ACTLU)

The DLUR must also examine the +RSP(ACTLU), since it carries the X′0C′ (LU-LU Session Services Capabilities) control vector.

- If the RSP(ACTLU) does not have a CV X′0C′, the DLUR will build one:
  - if the RSP(ACTLU) includes a CV X′0C′, continue processing
  - if the RSP(ACTLU) only includes a CV X′00′, build a CV X′0C′ and add it to the RU
  - if the RSP(ACTLU) has no CVs, build a CV X′00′ and a CV X′0C′ and add them to the RU
    - if the RSP(ACTLU) RU is 2 bytes long, add a third byte before adding the CVs; the contents of the added byte will be the remembered ACTLU RU byte 2
  - when building a CV X′00′, set maximum RU size to 256 bytes and all other fields to 0
  - when building a CV X′0C′, set
    - secondary LU capability to enabled
    - LU-LU session limit to 1
    - LU-LU session count to 1 if there is an active LU-LU session or 0 otherwise (part of session count processing described below)
    - subarea node extended BIND support to 1 (part of extended BIND support processing described below)
    - SESSST support to 1 (part of new DLUR support described below)
    - all other fields to 0
- In the CV X′0C′ are LU-LU session limit and count fields (bytes 3-4 and 5-6, respectively). The DLUR will set:
  - LU-LU session limit to 1 if the LU is not PLU-capable
  - LU-LU session count to 1 if there is an active LU-LU session or 0 otherwise
- In the CV X′0C′ is an indicator as to whether or not the dependent LU supports SESSSTs (byte 7, bit 2). The DLUR will set this indicator on, regardless of the value set by the dependent LU for this

indicator. This support includes all aspects of session awareness, i.e., SESSEND and CV X′2A′ as well as SESSST (see 10.1.2, “DLUR/S Dependent LU Session Awareness” on page 10-2 for more information on session awareness).

- In the CV X′0C′ are two indicators as to whether or not the dependent/subarea LU supports extended BINDs (byte 7, bits 4 and 6). The DLUR will remember these indicators′ settings with its other information about the dependent LU. Both bits off will indicate that the LU does not support
extended BINDs, while either bit on will indicate the LU does support extended BINDs. The DLUR
will also set the peripheral node extended BIND support to 0 and the subarea node extended BIND
support to 1.
- In the CV X′0C′ is an indicator as to whether or not the dependent LU supports network-qualified names (byte 7, bit 5). The DLUR will remember this indicator′s setting with its other information about the dependent LU.

If there already is an active LU-LU session when the +RSP(ACTLU) is received, 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).

8.1.3 INIT-SELF

When the DLUR node receives an INIT-SELF from a DLUR-attached dependent LU, it will save the PLU name and the User Request Correlation (URC) field from the RU and associate this information with the LU.

8.1.4 BIND

When the DLUR node receives a BIND whose RSCV terminates at the DLUR, the DLUR must check its LU table to determine the location of the SLU name specified in the RU. Once located,

- ***SLU session count processing -*** the LU′s session count will be checked:
  - if the count is zero, it will be incremented to one, and processing will continue;
  - if the count is already one, the BIND will be rejected with sense data X′0805 000A′;
- ***extended BIND processing -*** the BIND will be unextended if necessary, based on the extended
BIND support indicators in the CV X′0C′ in the +RSP(ACTLU) - this involves removing all keyed
control vectors, turning off the CVs included indicator, truncating trailing zeroes and the SLU name
(for non-negotiable BINDs), and updating the new length of the BIND RU;
- ***network-qualified name processing -*** the NETIDs (if any) will be stripped from the LU names in the BIND if necessary, based on the network-qualified names support indicator in the CV X′0C′ in the +RSP(ACTLU);
- ***name substitution processing -*** the PLU name will be replaced if necessary, based on whether or not the saved and BIND′s URCs match:
  - if the URCs do not match, BIND processing will continue;
  - if the URCs match, the BIND PLU name will be replaced with the saved PLU name, and the DLUR will discard the saved URC and the saved PLU name;
- ***adaptive session pacing processing -*** the Adaptive Session-Level Pacing support indicator (byte 9, bit 0 in the BIND) value for the APPN stage (from the DLUR into the APPN network) will be remembered by the DLUR, which will then set the indicator for the REX stage (from the DLUR to the down-

stream PU) as follows - note that this processing is performed on non-negotiable BINDs as well as negotiable BINDs:

– if the BIND is unextended set the ASP indicator off;

– if the BIND is extended set the ASP indicator to the same value as the REX stage pacing parameter (byte 4, bit 0) in the Assign LU Characteristics (X′30′) control vector included in the GDS variable encapsulating the ACTLU (note that the supported/not supported settings are defined opposite to each other in the BIND and in the CV X′30′);

- ***pacing window size processing -*** the DLUR will put the REX stage pacing window size into the BIND only if the following three conditions are all true:
  1. the DLUR changed the BIND′s ASP indicator from 1 (adaptive) to 0 (fixed), and
  2. the BIND is negotiable, and
  3. the BIND pacing window size is zero;

and the BIND (if not rejected) will be forwarded to the appropriate internal or external component.

When a DLUR receives a BIND for a dependent LU and there is no active CP-SVR pipe servicing that dependent LU, the DLUR as a product option can forward the BIND to the LU.

8.1.5 +RSP(BIND)

When the DLUR node receives a +RSP(BIND),

& - ***short RSP(BIND) processing -*** the short +RSP(BIND) is converted into an extended short form & RSP(BIND) by:

& – zeroing 31 (X′1F′) bytes for the extended short form RSP(BIND)

& – setting the RU code to BIND (X′31′)

& – setting the BIND type to nonnegotiable

& – including the SLU max send size and the PLU max send size from the BIND request

% – setting the pacing fields in the RSP(BIND) for the REX stage to the BIND request values

& – setting the limited resource bit if the link station is a limited resource link (LU 6.2 RSP(BIND)s & only)

& and the pacing values for the SLU stage are saved so that fixed session pacing will be used with & the window sizes specified in the BIND request;

- ***extended BIND processing -*** the +RSP(BIND) will be reextended if necessary, based on the extended BIND support indicators in the CV X′0C′ in the +RSP(ACTLU) - this involves reinserting the FQPCID control vector and turning on the CVs included indicator;

% - ***WBRI processing -*** a DLUR can, as an implementation option, support segment reassembly at its % BF; whether or not a DLUR provides this support is reflected in how it sets the Whole BIUs % Required Indicator (WBRI) - WBRI=0 means sending node supports receipt of segments on this % session while WBRI=1 means sending node does not support receipt of segments (this processing % could apply to RSP(BIND)s built as well as received by the DLUR):

% – if WBRI is valid (not a reserved field), use the received value

% – if WBRI is reserved, act as if DLUR received WBRI=0; if segments are received from the PLU, % the DLUR can either: