13.3 Dependent LU Session Awareness Format Changes

13.3.1 SESSST (Session Started)

There is a new format, X'03', defined in byte 3 of the SESSST RU. Comparing format X'03' (which is built by the DLUR) to format X'01' (which is built by the BF-NCP),

- The DLUR is not aware of the network address of the dependent LU's LU-LU session partner, so no session key is included in format X'03'.
- The DLUR is not aware of ER or VR information, so the VR-ER Mapping Data (X'1E') control vector is not included in format X'03'.
- The DLUR is not aware of XRF information, so the Related Session Identifier (X'28') and the XRF/Cryptography (X'68') control vectors are not included in format X'03'.
- For network management, specifically problem determination, the DLUR includes the BIND Image (X'31') control vector; it includes the original BIND image from the PLU, not including any modifications made by the DLUR.
- Also for problem determination, the DLUR includes the Route Selection (X'2B') control vector; it is obtained from the BIND request from the PLU.
- To return name information, the Session Information (X'2A') control vector is included in format X'03', replacing the Local-Form Session Identifier (X'23') and the Fully-Qualified PCID (X'60') control vectors, which are already included in the X'2A' control vector (see 13.3.4, "Session Information (X'2A') Control Vector" on page 13-7).

Therefore, following the format byte, format X'03' includes only the Session Information (X'2A'), the Route Selection (X'2B'), and the BIND Image (X'31') control vectors.

13.3.2 SESSEND (Session Ended)

There is a new format, X'3', defined in byte 3, bits 0-3 of the SESSEND RU. Comparing format X'3' (which is built by the DLUR) to format X'2' (which is built by the BF-NCP),

- The DLUR is not aware of the network address of the dependent LU's LU-LU session partner, so no session key is included in format X'3'.

Therefore, following the format byte, format X'3' includes the cause byte, a retired byte, and, conditionally, the Extended Sense Data (X'35') and the Fully-Qualified PCID (X'60') control vectors.

13.3.3 RSP(ACTLU)

The RSP(ACTLU) RU, when built by a DLUR, has several changes to it:

- The DLUR is not aware of XRF information, so the Related Session Identifier (X'28') and the XRF/Cryptography (X'68') control vectors are not included in the RSP(ACTLU) processed by a DLUR.
- The Session Information (X'2A') control vector built and included in the RSP(ACTLU) by the DLUR is different (see 13.3.4, "Session Information (X'2A') Control Vector" on page 13-7 for details).

C.1.8 SESSST

C.1.8.1 SESSST (SESSION STARTED)

LU→SSCP, Norm; FMD NS(s)

SESSST is sent, with no response requested, to notify the SSCP that the session between the specified LUs has been successfully activated.

SESSST (SESSION STARTED)

Byte	Bit	Content
0– 2		X′810686′ NS header
3		Format: X′03′ Format 3: control vectors present in bytes 4 – n
4 – n		Control vectors, as described in “Control Vectors” in -- Heading ′CF′ unknown --. *Note:* The following control vectors may be included; they are parsed according to subfield parsing rule KL (see “Substructure Encoding/Parsing Rules” in -- Heading ′CF′ unknown --). X′2A′ Session Information control vector X′2B′ Route Selection control vector (included by the DLUR as copied from the corresponding BIND) X′31′ BIND Image control vector

C.1.9 RSP(ACTLU)

C.1.9.1 RSP(ACTLU)

LU→SSCP, Exp; SC

RSP(ACTLU)

Byte	Bit	Content
0		X′0D′ request code
1		Type of activation selected: X′01′ cold (retired) X′02′ ERP
2	0– 3	FM profile: Same as the corresponding request
	4– 7	TS profile: same as the corresponding request

Session Information (X′2A′) Control Vector

Byte	Bit	Content
0– 1		Vector header; Key=X′2A′ (see -- Heading 'RUSPARS' unknown -- and -- Table 'CV' unknown --)
2 – n		Vector Data
2	0	LU role: 0 The subject LU is the SLU in this session. 1 The subject LU is the PLU in this session.
	1– 7	Reserved
3 – n		Control vectors, as described in detail elsewhere in this chapter. *Note:* The following control vectors may be included; they are parsed according to parsing rule KL (see "Substructure Encoding/Parsing Rules" in -- Heading 'CF' unknown --). X′0E′ Network Name control vector: the network-qualified name of the partner LU for the reported session (always present) X′23′ Local-Form Session Identifier control vector X′60′ Fully Qualified PCID control vector (present when present in the corresponding BIND)

C.1.15 Route Selection (X′2B′) Control Vector

C.1.15.1 Route Selection (X′2B′) Control Vector

The Route Selection control vector (RSCV) is carried in BIND, RSP(BIND), and other RUs to describe the path through an APPN network that a session is to take or has taken; or in Locate to define the Locate search procedure path.

Route Selection (X′2B′) Control Vector

Byte	Bit	Content
0– 1		Vector header; Key=X′2B′ (see -- Heading 'RUSPARS' unknown -- and -- Table 'CV' unknown --)
2 – n		Vector Data
2		Maximum hop count: the number, in binary, of TG Descriptor or Network Name control vectors in the Route Selection control vector
3		Current hop count: the index, in binary, of the last TG Descriptor control vector that was processed; the index divides the traversed from the to-be-traversed portions of the path and, thus, points to the next hop to be traversed *Note:* When the values of the Maximum Hop Count field and the Current Hop Count field are equal, all nodes specified in the control vectors have processed the RU

Route Selection (X′2B′) Control Vector

Byte	Bit	Content
4 – n		Control vectors, the details of which are described elsewhere in this chapter or immediately following this control vector *Note:* The following control vectors may be included; they are parsed according to parsing rule LT. X′0E′ Network Name control vector: one for each control point (Type = X′F4′) on the procedure path (present when the RSCV is carried on Locate) X′46′ TG Descriptor control vector: one for each TG on the session path (present when the RSCV is carried on BIND or RSP(BIND), or on a reply CD-Initiate from a network node server to its client end node) X′80′ RSCV Descriptor control vector (present when the RSCV is carried on BIND, RSP(BIND), or CD-Initiate and an extended border node in the session path recognizes that the RSCV does not describe the complete session path)

C.1.15.1.1 RSCV Descriptor (X′80′) Route Selection Control Vector

The RSCV Descriptor control vector provides additional information regarding the route described in the RSCV.

RSCV Descriptor (X′80′) Route Selection Control Vector

Byte	Bit	Content
0– 1		Control vector header; Key=X′80′ (see -- Heading 'RUSPARS' unknown --)
2 – n		Control Vector Data
2		Route Characteristics
2(=n)	0– 1	Reserved
	2	Border node indicator: 0 The node identified in the field indicating the origin node's network-qualified CP name is not a border node. 1 The node identified in the field indicating the origin node's network-qualified CP name is a border node.

C.1.16 Assign LU Characteristics (X′30′) Control Vector

C.1.16.1 Assign LU Characteristics (X′30′) Control Vector

Assign LU Characteristics (X′30′) Control Vector

Byte	Bit	Content
0– 1		Vector header; Key=X′30′ (see -- Heading 'RUSPARS' unknown -- and -- Table 'CV' unknown --)
2 – n		Vector Data