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|                                                                    |
|                      Without X.25 HostNAS                          |
|                                                                    |
|                  TCP/IP                        X.25                |
|         HOST      NETWORK     ROUTER          NETWORK   QLLC PAD    |
|       _____                _____                 _____     |
|      | | | | |       SNA        | S | | |      QLLC     |     |    |
|      | <-> <-> |  <----------->| S | | |   <---------->|     | <-->|
|      | | | | |                 | N |\| Q |             |_____|     |
|      |C| V| T|                 | A | \|L |                         |
|      |I| T| C|                 |   |  \|L |                         |
|      |C| A| P|                 |---|   |C |              SNA PU     |
|      |S| M| I|                 |   |  /|P |               _____     |
|      | |  |P | <-->|    | <-->| X | / |A |              |     |    |
|      | |  |  |     |    |     | T |/  |D |              |     | <-->|
|      | |  |  |     |    |     | P |   |  |              |_____|     |
|      |_____|         |_____|                               |
|                 D|    |X                                           |
|                 S|    |T                                           |
|                 L|    |P                                           |
|                 U|    |      ROUTER                   QLLC PAD      |
|                  |    |       _____                   _____      |
|                  |    |      | S | | |      QLLC       |     |     |
|                  |<--+----| N |\| Q |   <---------->|     | <-->|
|                  |    |      | A | \|L |             |_____|     |
|                  |    |      |   |  \|L |                        |
|                  |    |      |---|   |C |               SNA PU   |
|                  |    |      |   |  /|P |                _____    |
|                  |<-->| X | / |A |              |     |    |
|                  |    |      | T |/  |D |              |     | <-->|
|                  |    |      | P |   |  |              |_____|     |
|                  |          |_____|                              |
|                                                                    |
|     SNA device traffic is carried across the X.25 network in QLLC  |
|     packets.  The IBM router determines if its peer is a host or   |
|     another router.  If the peer is a router, the QLLC packets     |
|     are encapsulated in XTP before they are passed to the TCP/IP   |
|     network.  If the peer is a host, the router takes the role of  |
|     peer QLLC PAD and extracts the SNA data from the QLLC packets. |
|     The native SNA data is then encapsulated in DSLU packets       |
|     before it is passed to the TCP/IP network.  The host resident  |
|     TCP/IP stack extracts the SNA data and passes it on to VTAM.   |
|                                                                    |
|_____|
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Figure 1: Native SNA traffic in a hybrid X.25-TCP/IP Network without HNAS