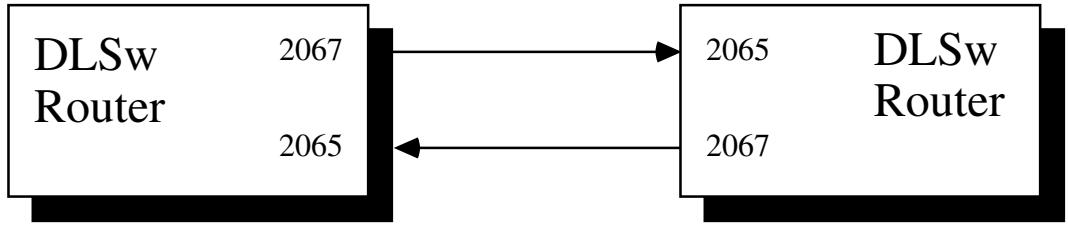
DLSw Capabilities: TCP Session Establishment



- always listen on port number 2065
- this port number must be agreed upon (this is the reason for 2 connections)

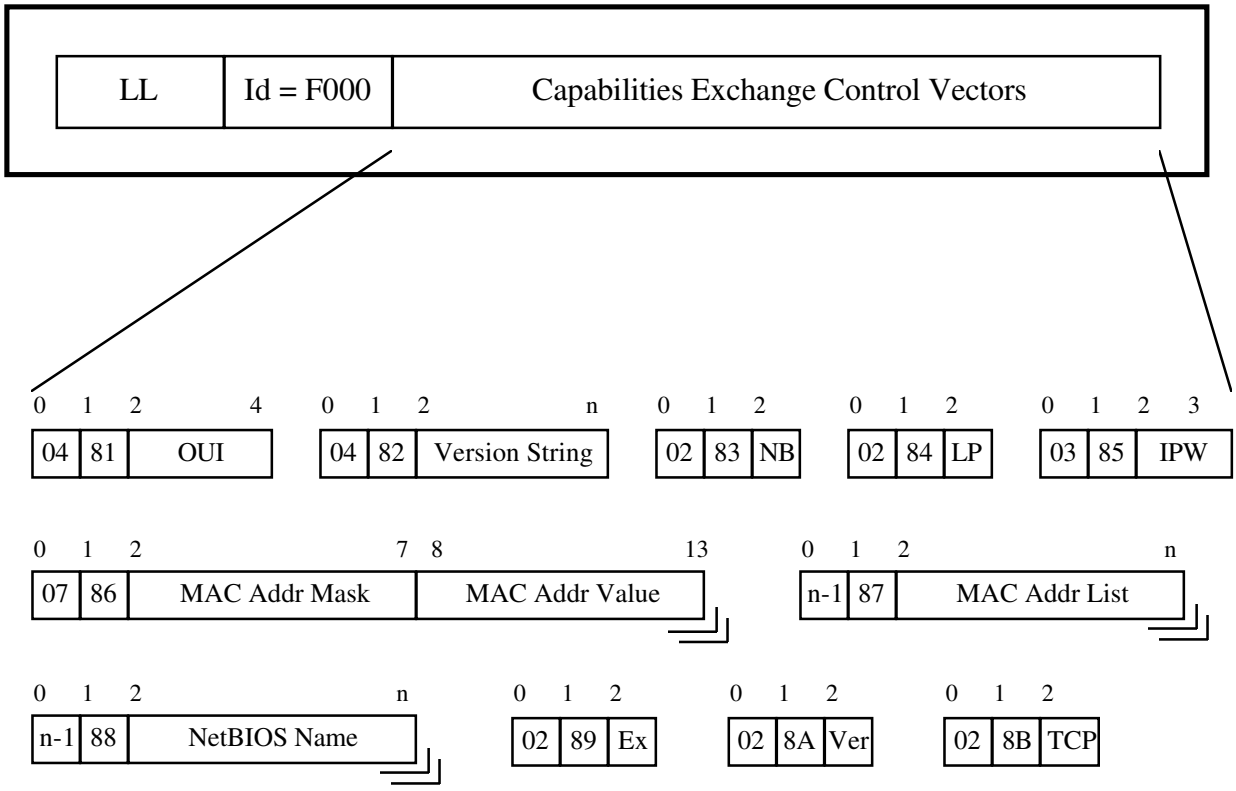
TCP connection logic:

- call out to configured DLSw partners
- for call in:

```
if not paranoid, then
    accept call in
    call out on other connection
else
    if caller is in the DLSw partner list, then
        accept call in
        call out on the other connection
    else
        drop the connection
    endif
endif
```

Capabilities Exchange Format Proposal

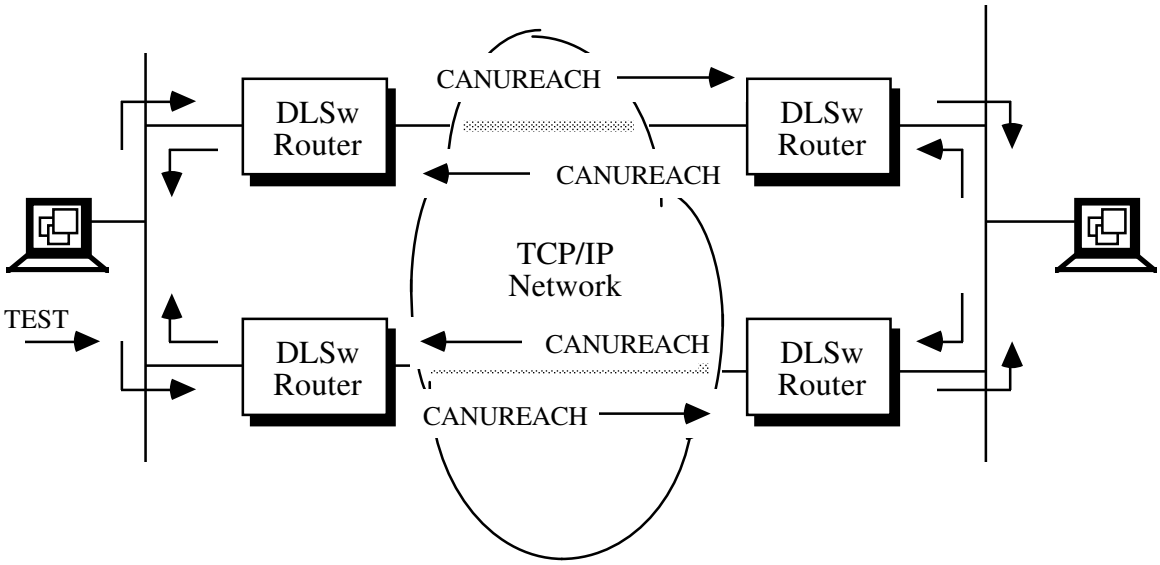
Capabilities Exchange GDS Variable



Legend:

NB	boolean variable for NetBIOS support
LP	boolean variable for loop prevention
IPW	Initial Pacing Window value
Ex	exclusivity in NetBIOS or MAC Addr list
Ver	RFC version number
TCP	number / ability to bring up additional TCP sessions 2 - base operation with 2 TCP sessions 1 - take number of TCP sessions down to 1 ° 1 or 2 - can create more TCP sessions

DLSw Loop Prevention RIGlet



- Problems with Data Link Switching in this configuration:
  - looping is a problem for SNA Test frames and NetBIOS Name Queries
  - duplication of UI frames to a NetBIOS group address
  - excessive frame copying by transparent bridges

- focus is on a modified TEST frame, where TEST data field from sending DLSw contains:
  - virtual ring number, and
  - minimum (source DLSw IP address, destination DLSw IP address)