The Normal Case

N_Port → FCDF
- FLOGI Req.

FCDF → Primary Controlling Switch
- VNRN Req.
- NPZD Req.
- NPZD SW_ACC
- VNRN SW_ACC

Primary Controlling Switch → Secondary Controlling Switch
- NPZD Req.
- NPZD SW_ACC

Secondary Controlling Switch → N_Port
- FLOGI LS_ACC
Re-Login

N_Port  FCDF  Primary Controlling Switch  Secondary Controlling Switch

FLOGI Req.  VNRN Req.  NPZD Req.  NPZD Req.

VNRN SW_ACC  NPZD SW_ACC

FLOGI LS_ACC  VNRN Req.  NPZD Req.  NPZD Req.

NPZD SW_ACC  VNRN SW_ACC

FLOGI LS_ACC  NPZD SW_ACC  NPZD SW_ACC
Interesting Case (1)

N_Port  |  FCDF  | Primary Controlling Switch  | Secondary Controlling Switch

FLOGI Req. --- VNRN Req. --- NPZD Req.  
FLOGI Req.  
FLOGI LS_ACC  
NPZD SW_ACC  
NPZD Req.  
VNRN Req.  
VNRN SW_ACC  

The VNRN SW_ACC arrives after receiving a new FLOGI
Interesting Case (2)

A VNRN for an N_Port_Name whose login is being processed arrives before completion of the processing (i.e., before closing the previous VNRN Exchange)
Handling Case 1 (a)

The previous FLOGI Exchange is implicitly terminated

The VNRN SW_ACC does not generate an FLOGI LS_ACC
Handling Case 2 (a)

N_Port  |  FCDF  |  Primary Controlling Switch  |  Secondary Controlling Switch

- FLOGI Req.
- VNRN Req.
- NPZD Req.
- NPZD Req.
- NPZD SW_ACC
- NPZD SW_ACC
- VNRN SW_ACC
- VNRN SW_ACC

The previous FLOGI Exchange is implicitly terminated

The VNRN SW_ACC does not generate an FLOGI LS_ACC

Processed as a Re-Login

NPZD SW_ACC

NPZD SW_ACC

NPZD SW_ACC

NPZD SW_ACC
Handling Case 1 (b)

The previous FLOGI Exchange is explicitly terminated

The VNRN SW_ACC does not generate an FLOGI LS_ACC

Processed as a Re-Login
Handling Case 2 (b)

The previous FLOGI Exchange is explicitly terminated
The VNRN SW_ACC does not generate an FLOGI LS_ACC

ABTS
FLOGI Req.

FLOGI LS_ACC

VNRN Req.
VNRN SW_ACC
NPZD Req.
NPZD SW_ACC

Primary Controlling Switch
Processed as a Re-Login
NPZD Req.
NPZD SW_ACC

Secondary Controlling Switch
NPZD SW_ACC
Optimized Case 2

The previous FLOGI Exchange is implicitly terminated

The VNRN SW_ACC does not generate an FLOGI LS_ACC

Smart Re-Login

NPZD SW_ACC
Instructions to Editor

- Referring to FC-SW-6 rev. 1.2, update the last sentence of the fourth paragraph of section 17.9.3 as follows:

Upon receiving the VNRN SW_ACC, containing the FLOGI / NPIV FDISC LS_ACC Parameters, the FCDF that sent the VNRN Request shall accept the FLOGI Request or FIP-NPIV FDISC Request and complete the N_Port Fabric login. If the FLOGI or NPIV FDISC Exchange that triggered the VNRN Request has been terminated, then an FLOGI LS_ACC or an NPIV FDISC LS_ACC shall not be generated upon receiving the VNRN SW_ACC. In this case, if upon receiving the VNRN SW_ACC or upon termination of the VNRN Exchange there is no Fabric Login in progress or established for the VN_Port that began the terminated FLOGI or NPIV FDISC Exchange, then the FCDF shall perform a VNUN Exchange with the Primary Controlling Switch to inform the Primary Controlling Switch that the VN_Port is now unreachable.

If while performing the processing of a VNRN Request the Primary Controlling Switch receives a second VNRN Request for the same VN_Port (i.e., the second VNRN Request is received while the first VNRN Exchange is still open) and the processing of the second VNRN Request results in NPZD Requests having the same payloads as the ones generated for the first VNRN Request, then the Controlling Switch may skip sending the second set of NPZD Requests and reply to the second VNRN Request once NPZD processing for the first VNRN Request is considered completed.
Thank you!