



T11 FC-BB-6

Distributed FCF Fabric Login Sequence

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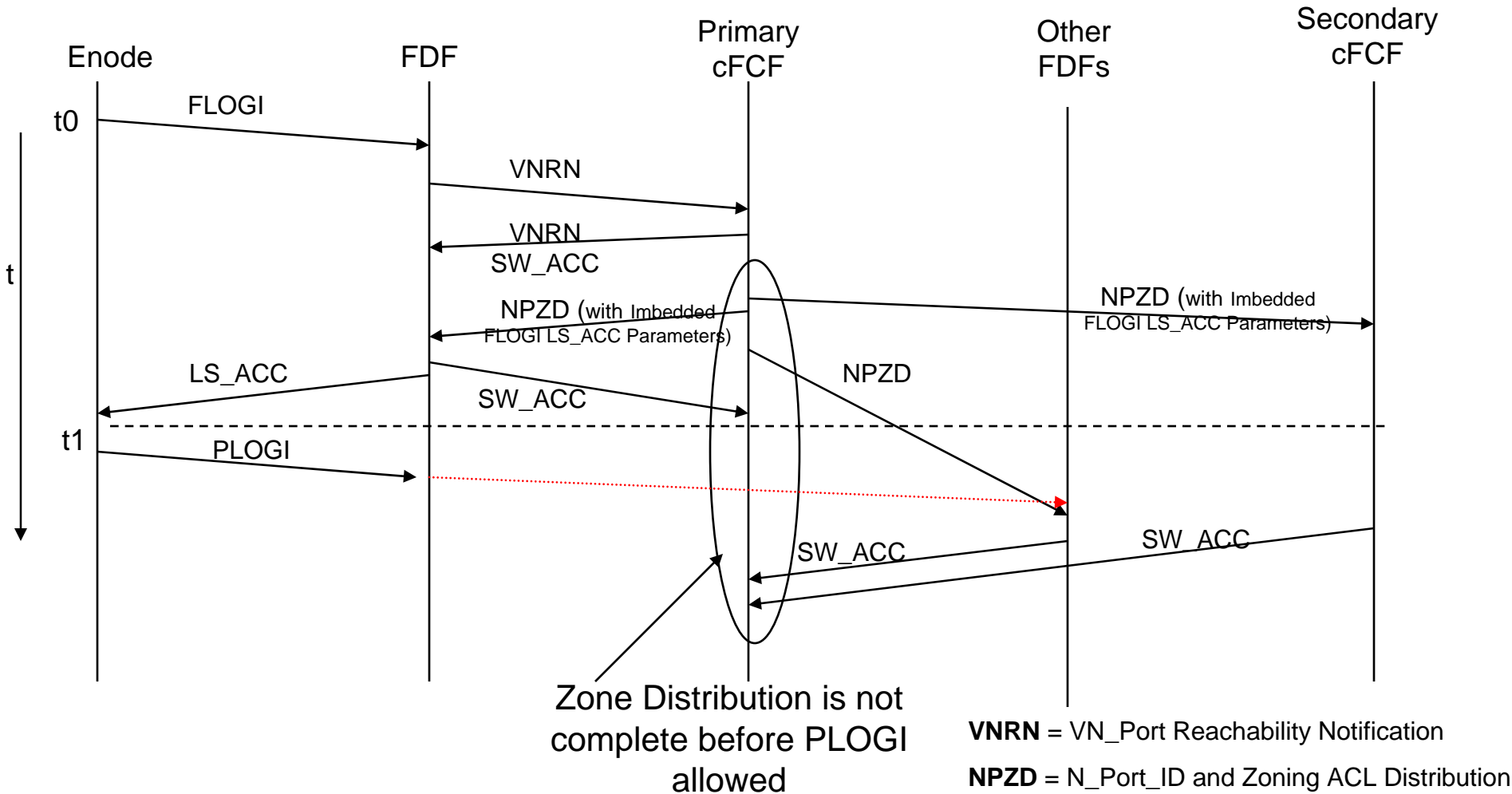
Some Design Points to Consider

1. During FLOGI process, zoning distribution should be complete before VN_Ports can send PLOGI to other VN_Ports – e.g. when FLOGI is complete.
2. FDFs need to handle and respond to multiple received FLOGIs/FDISC in parallel. Thus, the FDF has to initiate multiple VNRNs to the cFCFs in parallel. ENodes should not be required to serialize FLOGI on its ports.(e.g. server with multiple HBAs connected to same FDF).
3. A bad/slow FDF should not cause FLOGIs to good FDFs to fail.
4. Under normal circumstances, FLOGI should complete in a respectable time (some small number of ms).



Currently Proposed FLOGI Process

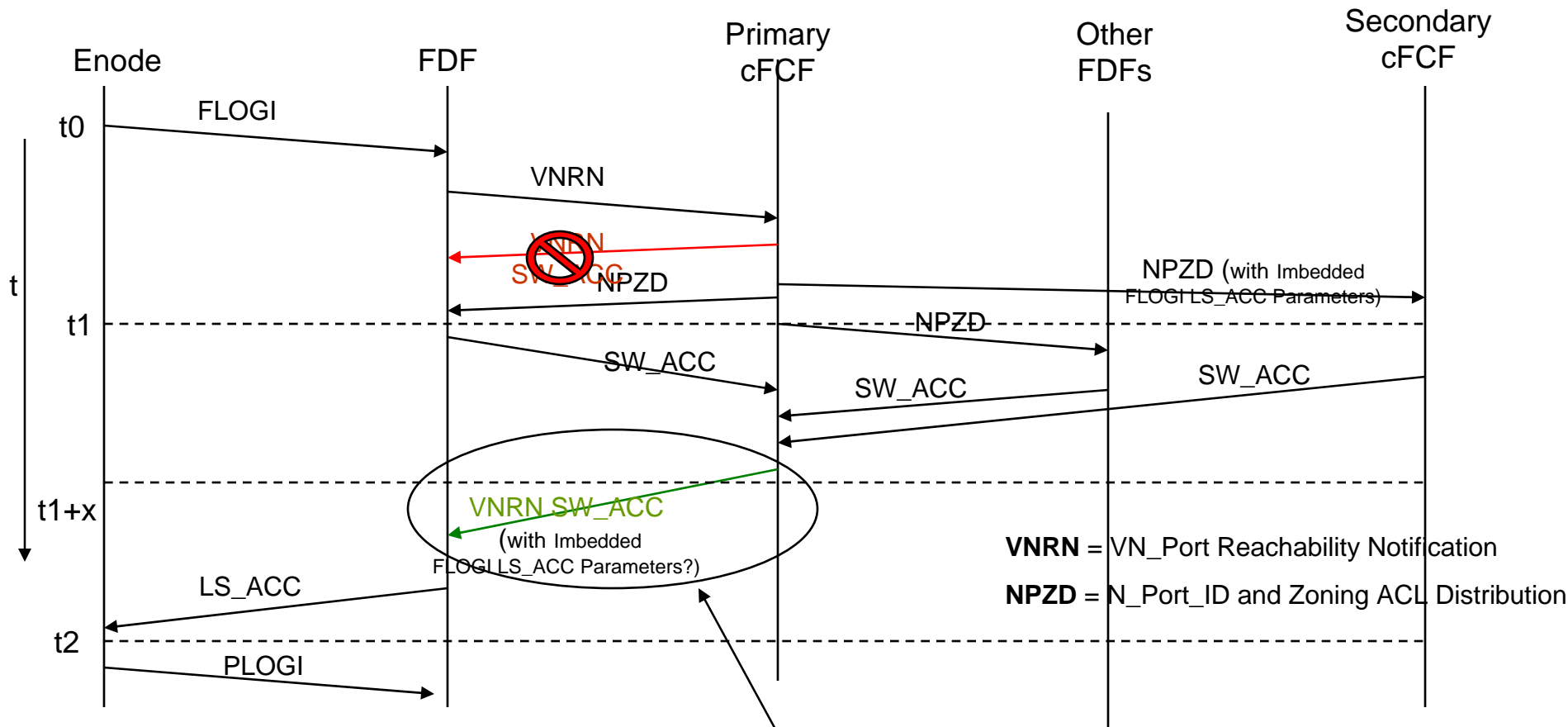
- FLOGI as proposed in 11-026v1





Proposed FLOGI Process Illustration 1

A possible Improvement

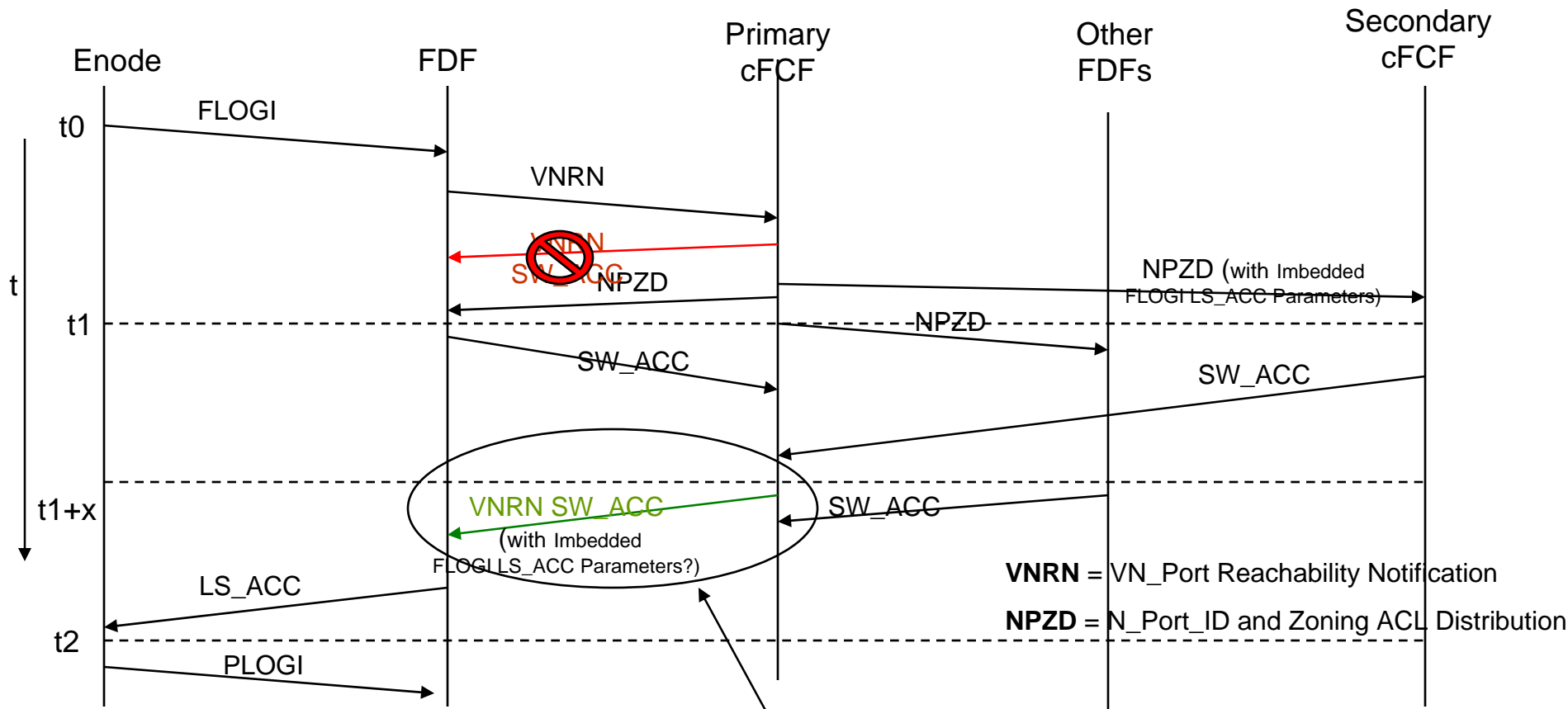


Hold VNRN SW_ACC until such time as zoning distribution is considered complete (x time after last NPZD sent.)
 x = All NPZD SW_ACC received or 100-500ms(?), whichever comes first.
 In this case, all SW_ACC have been received



Proposed FLOGI Process Illustration 2

A possible Improvement



Hold VNRN SW_ACC until such time as zoning distribution is considered complete (x time after last NPZD sent.)
 x = All NPZD SW_ACC received or 100-500ms(?), whichever comes first.
 In this case, a timeout has occurred.

Summary Points

- Zoning Distribution (NPZD) is part of the processing of a received VNRN by the cFCF. It is logical that it should be considered complete before sending a VNRN SW_ACC to the originator.
- Using VNRN SW_ACC to trigger FLOGI LS_ACC allows FDF to use exchange context to match multiple VNRN requests and responses, and correlate them to multiple FLOGI requests.
- Can't rely on all NPZD SW_ACC being received before accepting VNRN because one bad FDF could cause all FLOGI to fail. Need to have some reasonable timeout for x.
- Can use VNRN ILS timer for timing the process – avoiding a separate timer for waiting for NPZD.
- FLOGI LS_ACC parameters fit naturally in the response to the VNRN that requested it.
 - still need this data in NPZD to secondary controlling FCF
- RSCNs should not be sent until after zoning distribution is considered complete (to prevent conversation from other VN_Ports before ready).

Thank you