



FC-BB-6 NOTIFICATION OF NON- DELIVERY EVALUATION

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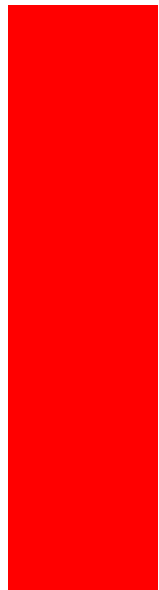
FC-BB-6 Considerations

- Notification of Non-delivery
 - Review supported behavior
 - Review use case of concern
 - Summarize consensus



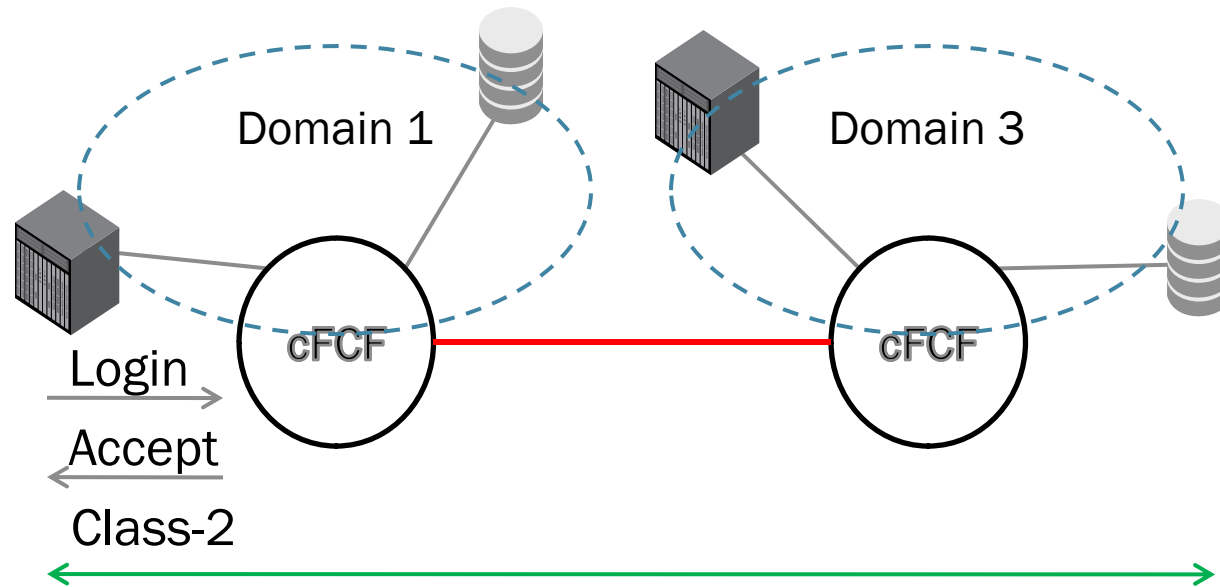
Notification of Non-delivery

Review



cFCF Behavior

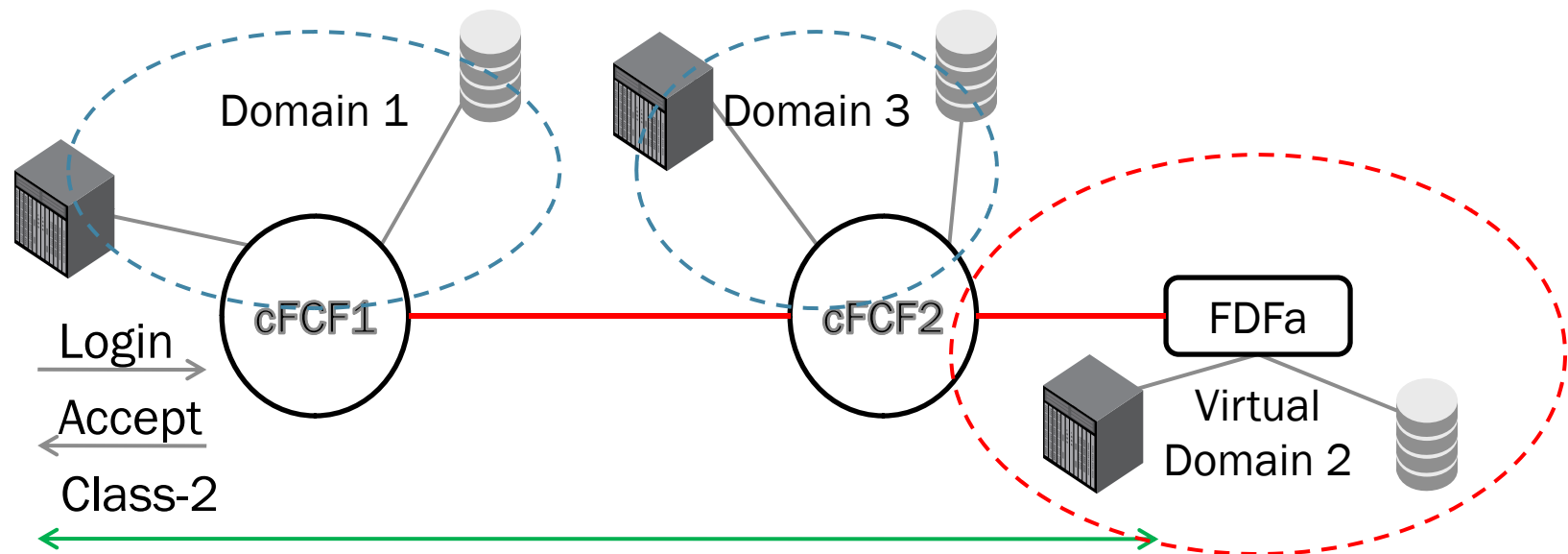
Review behavior



- Devices determine support at login
- Fabric members enforce behavior

cFCF Indicates Support for Virtual Domain

Review Agreements (?)



- cFCF indicates support on behalf of the Virtual Domain
 - Via ELP exchange with rest of the fabric
 - Class 2 Interconnect Parameters
- FDF indicates support to cFCF
 - Via ELP Exchange with cFCF
 - Class 2 interconnect Parameters

Detecting Non-Delivery

Review discussions

- Fibre Channel Capabilities
 - When I/O fails
 - RSCNs tell us what happened
 - Timeouts tell us something happened
 - For timely notification, FC provides Class-2 delivery
 - Immediate feedback
 - Guaranteed notification
 - Exploited by at least one implementation
- FC-BB-6 Proposal
 - Clarify behavior of cFCF's and FDF's to insure Class-2 support
 - Support is a statement for the entire Virtual Domain
 - Not just the connected device



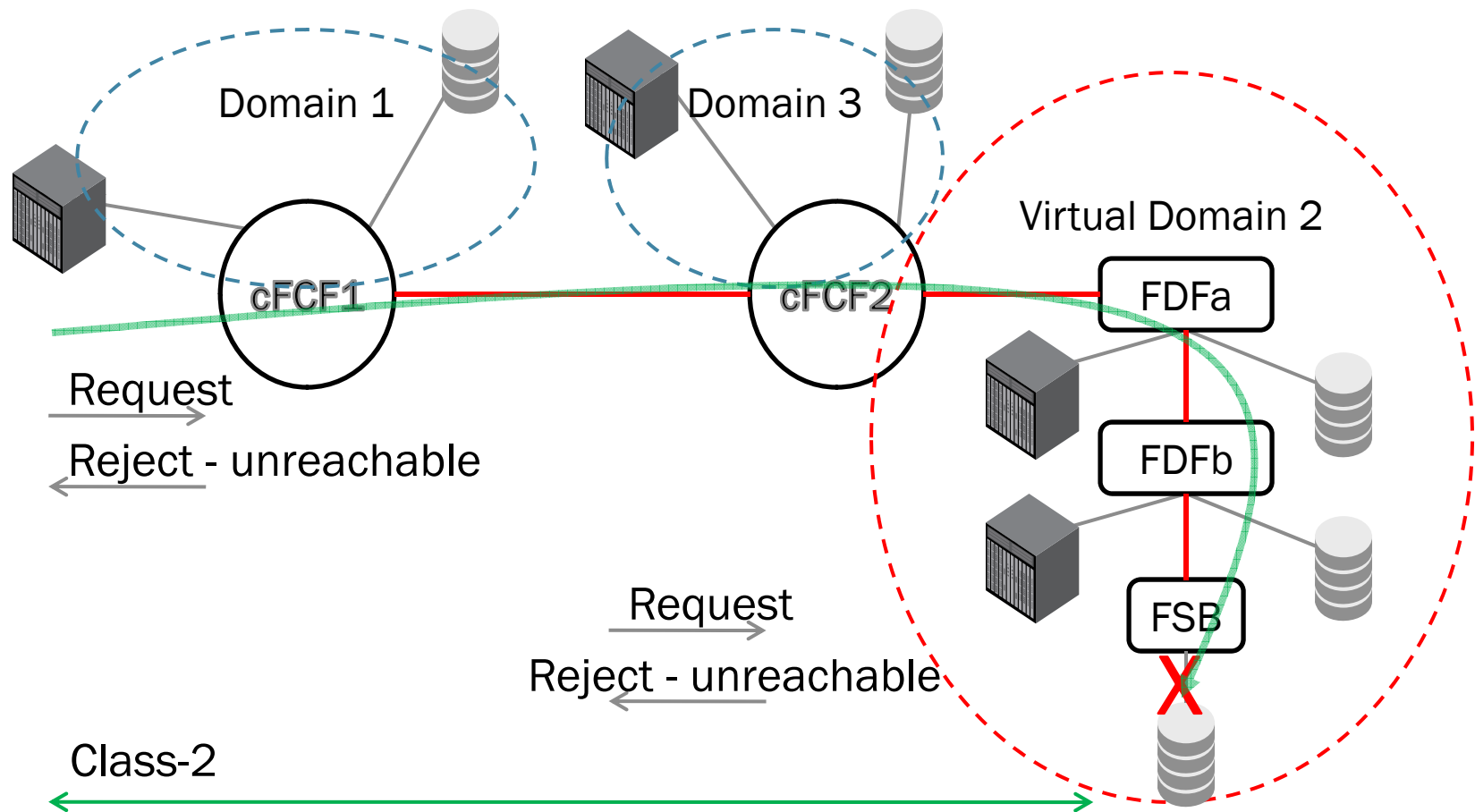


Use Case

Concerns with Support in Virtual Domain

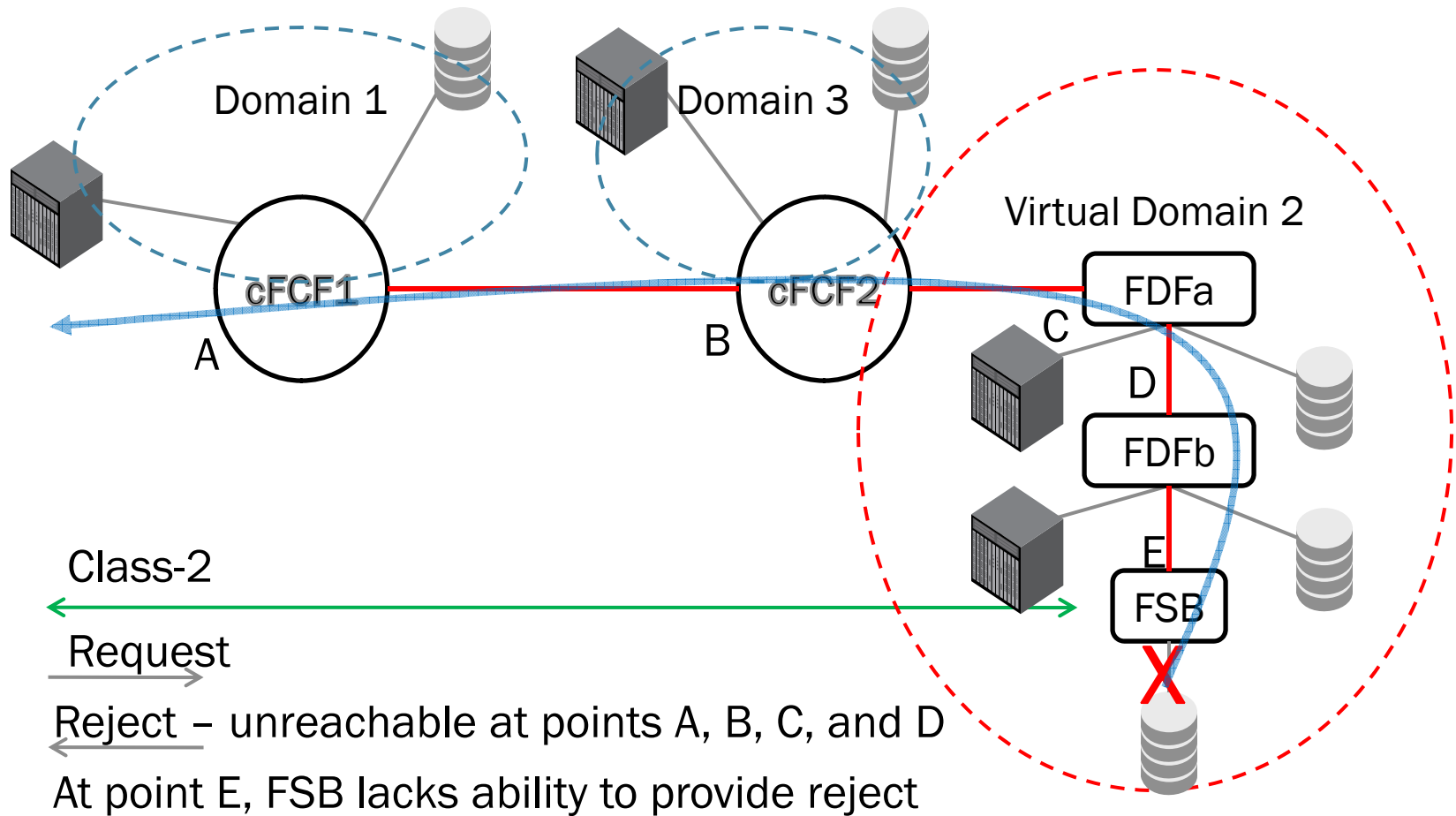
FDF Behavior of Concern

Between FSB and the device, the behavior does not work



Support During Failures

Added functionality



cFCF / FDF Behavior

Clarifications/Conclusions

- cFCF
 - cFCF already supports detection, rejection, and notification
 - cFCF indicates class support in ELP exchange
- FDF
 - FDF indicates class support in FIP ELP exchange
 - FDF is capable of detecting link down
 - Physical link down
 - FDF responds with a reject for unreachable destination
 - FDF sends cFCF “unreachable” notification, when downstream destinations become unreachable
 - Required to support upstream cFCFs timely responses
- FSB
 - Problematic
 - User beware





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Thank You

