T11 FC-SW-6

Propagating Fabric Name to the FCDFs

Henry May
2/04/2013

February, 2013

Background

- Added to FC-BB-6, Section 7.12.5.1

  An FDF is part of a Distributed FCF internal topology if the initialization exchanges with the Primary controlling FCF are completed. (See FC-SW-6.)

  If an FDF is not part of a Distributed FCF internal topology:
  a) all VA_Port capable FDF-MACs on that FDF shall transmit Discovery Advertisements with the Fabric_Name field of the Fabric Descriptor set to zero; and
  b) all VF_Port capable FDF-MACs on that FDF shall not transmit Discovery Advertisements .

  If an FDF is part of a Distributed FCF internal topology, all VA_Port capable and VF_Port capable FDF-MACs on that FDF shall have the Fabric_Name received from the Primary Controlling FCF in the Fabric_Name field of the Fabric Descriptor in all transmitted Discovery Advertisements.

- How Does the Primary Controlling FCF Convey the Fabric Name to the FDF?

Option 1: Instructions to the Editor (1 of 1)

- **Referring to 13-047v0**
  Change to Table 246 – DFMD Request Payload

Item	Size(Bytes)
SW_ILS Code = XX00 0008h	4
Destination FCDF Switch_Name	8
Originating Controlling Switch Switch_Name	8
Descriptor List Length	4
Fabric_Name	***8***
Membership Set Descriptor	See 1.1.2.12
Integrity Descriptor	See 1.1.2.13

Fabric Name: Contains the fabric World Wide Name.

Option 2: Instructions to the Editor (1 of 3)

- **Referring to 13-047v0**
  Add row to end of Table 212 – Descriptor Tags with Tag Value 0013h, Descriptor 'Fabric Name', and reference to new sub-section 17.7.2.16 with title 'Fabric Name Descriptor'
- **Note: specific tag values and section numbers may be changed to suit the needs of the document.**

Option 2: Instructions to the Editor (2 of 3)

- **Referring to 13-047v0**
  Add new sub-section 17.7.2.16

1.1.2.16 Fabric Name Descriptor

Item	Size(Bytes)
Tag Value = 0015h	4
Length = 8	4
Fabric WWN	8

Fabric WWN: contains the Fabric World Wide Name.

Option 2: Instructions to the Editor (3 of 3)

- **Referring to 13-047v0**
  Change to Table 246 – DFMD Request Payload

Item	Size(Bytes)
SW_ILS Code = XX00 0008h	4
Destination FCDF Switch_Name	8
Originating Controlling Switch Switch_Name	8
Descriptor List Length	4
Fabric_Name Descriptor	***See 17.7.2.16***
Membership Set Descriptor	See 17.7.2.12
Integrity Descriptor	See 17.7.2.13

Fabric Name Descriptor: see 1.1.2.16

Option Agnostic Instructions to the Editor (1 of 1)

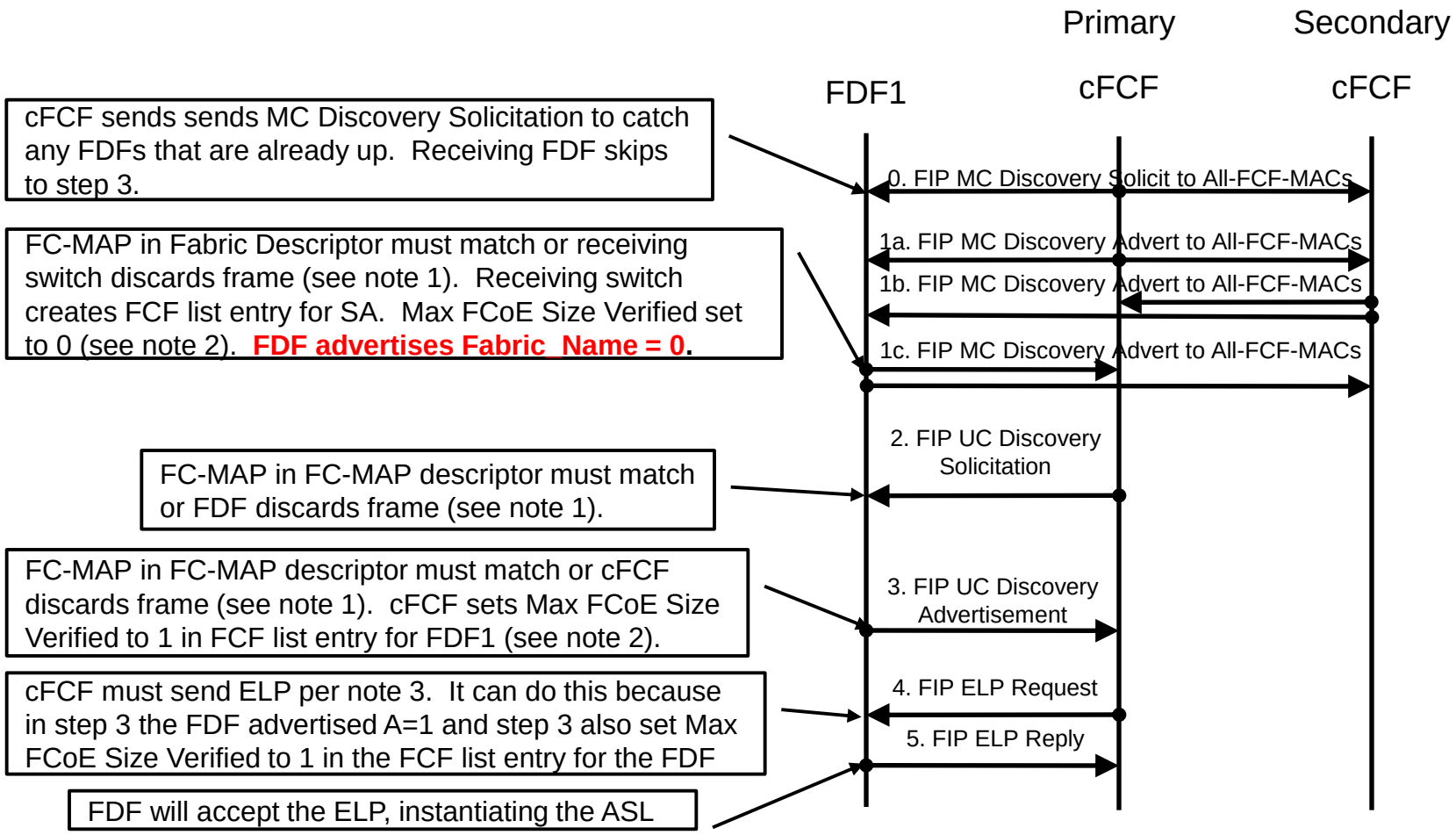
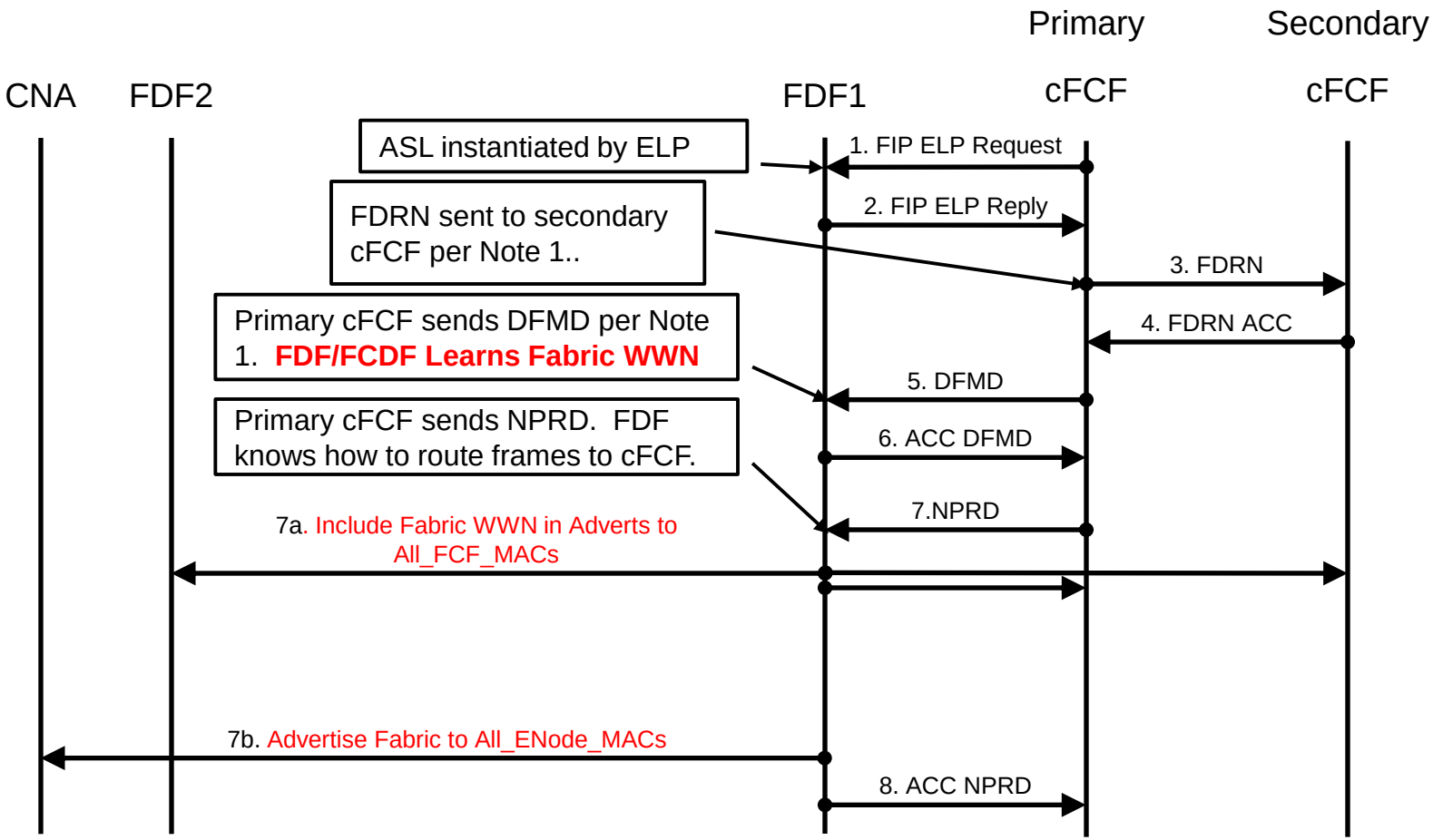
- **Referring to 13-047v0, Section 17.9.2, Paragraph 2**
  Upon instantiating an ASL with an FCDF, the Primary Controlling Switch shall initiate an FDRN Exchange describing that link with the Secondary Controlling Switch, if available, to keep the state synchronized. Upon completion of this FDRN Exchange, the Primary Controlling Switch shall provide to that FCDF the Distributed Switch Membership information ***and Fabric WWN*** through a DFMD Exchange. At this point the instantiated ASL becomes part of the Distributed Switch internal topology (i.e., the set of ASLs internal to the Distributed Switch). The Primary Controlling Switch shall recompute the N_Port_ID routes and distribute them to each FCDF belonging to the Distributed Switch through NPRD Exchanges.

Thank you

Thank you

Backup

FDF Fabric Name Prior to Learning



FDF/FCDF Learns the Fabric Name