

# FC-BB-5: FIP Error Reporting

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## Problem Statement:

Currently FIP does not provide for any error reporting. There was a proposal to use new LS\_RJT reason code and reason code explanations for FIP error reporting, but FIP errors should be reported via FIP, and errors related to the Link Service request should be reported via LS\_RJT (i.e., via the appropriate architectural level).

**Proposal:** Add a new FIP Error Report operation and new FIP Error descriptor that contains appropriate error information.

**Table 1 – FIP Operation Code and FIP Subcode field values and operations**

FIP Operation Code	FIP Subcode	FIP Operation	Reference
0001h	01h	Discovery Solicitation	7.7.6.2
	02h	Discovery Advertisement	7.7.6.3
0002h	01h	Virtual Link Instantiation Request	7.7.6.4
	02h	Virtual Link Instantiation Reply	7.7.6.4
0003h	01h	FIP Keep Alive	7.7.6.5
	02h	FIP Clear Virtual Links	7.7.6.6
0004h	01h	FIP Error Report	x.x.x.x
FFF8h-FFFEh	00h-FFh	Vendor Specific	7.7.6.7
All others	All others	Reserved	

**Table 2 – FIP descriptor types**

Range	Type	FIP Descriptor	Reference
Critical	0	Reserved	
	1	Priority	7.7.5.3.2
	2	MAC address	7.7.5.3.3
	3	FC-MAP	7.7.5.3.4
	4	Name_Identifier	7.7.5.3.5
	5	Fabric	7.7.5.3.6
	6	Max FCoE Size	7.7.5.3.7
	7	FLOGI <sup>a</sup>	7.7.5.3.8
	8	FDISC_NPIV <sup>a</sup>	7.7.5.3.9
	9	LOGO <sup>a</sup>	7.7.5.3.10
	10	ELP <sup>a</sup>	7.7.5.3.11
	11	VN_Port Identification	7.7.5.3.12
	12	FKA_ADV_Period	7.7.5.3.13
	13	Vendor_ID	7.7.5.3.14
	14	Error	x.x.x.x.x
Non-critical	15-127	Reserved	
	128-240	Reserved	
	241-254	Vendor Specific	7.7.5.3.15
	255	Reserved	
<p>a The FC CRC, SOF, and EOF shall not be included in the FIP descriptor.</p>			

