

DRAFT MINUTES OF 9/8/2005 FAIS CONFERENCE CALL

The following people were in attendance:

BROCADE	Ed McClanahan	edmc@brocade.com
CISCO	Maurilio Cometto	maurilio@cisco.com
CISCO	Claudio DeSanti	cds@cisco.com
EMC	Anshul Chadda	chadda_anshul@emc.com
EMC	Greg Golubski	golubski_greg@emc.com
MCDATA	Larry Hofer	larry.hofer@mcddata.com
SYMANTEC	Roger Cummings	roger.cummings@veritas.com
TROIKA NETWORKS	William Chow	wchow@troikanetworks.com

A total of 8 people from 7 organizations.

1. Opening remarks and introductions

The Chairman of FAIS, Claudio DeSanti of Cisco, called the meeting to order and welcomed the attendees, and led a round of introductions.

2. Administrivia

2.1 Approval of minutes

This was not discussed.

2.2 Approval of this agenda

Claudio noted that there have been several documents uploaded. Ed noted that it would be inappropriate to discuss the draft standard. It was agreed that we would only discuss the enumeration proposal.

3. Call for Patents

This was not discussed.

4. Review of old FAIS action items

Old action items were not reviewed.

Their current status is as follows:

AI 72: Ed McClanahan will remove all editor's comments from 05-113v3. (Opened 8/12/2005)
Open.

AI 73: Ed McClanahan will update 05-480v2 per the modifications from the 8/10 meeting.
(Opened 8/12/2005)

Open.

AI 74: Greg Golubski will update 05-008v8 per the modifications from the 8/10 meeting and provide the source to the editor. (Opened 8/12/2005)

Open.

AI 75: Ed McClanahan will update 05-512v0 per the modifications from the 8/10 meeting.
(Opened 8/12/2005)

Open.

AI 76: Ed McClanahan will post a new version of the draft, based on the incorporation of 05-008v9, 05-509v0, and 05-512v1, no less than 1 month prior to the october meeting.
(Opened 8/12/2005)

Open.

5. Old business

There was no old business at this meeting.

6. Scheduled FAIS business

6.1 Enumeration Proposal (05-623v0)

Greg Golubski (EMC)

Ed asked whether enumeration returns objects for all clients or just those created by the specified client handle. Greg noted there is no way take over objects from another client since a client can't currently update the C handles. He asked whether should return both C and P handles. William noted that it's not difficult for a Provider to return both. He also suggested that it would be useful to allow Providers to implement either (enumerate all, or enumerate specified client). Ed suggested adding a structure that contained all 4 handles (client/provider handles for both the client and the object); it was suggested that this new structure be called a "handle set".

Larry asked about FAIS_Enumerate_T, and the meaning of "not associated". Greg said that associated objects already have a mechanism to be access via downward associations. Ed noted that it was difficult for the Provider to track the parent references for each object. He suggested limiting the enumeration options to just "all". This was agreed.

Ed suggesting adding the enumeration flag to all functions. William asked whether we should keep the enumeration at all, since it supports just one mode. Ed responded that keeping it allows for vendor-specific modes. William suggested specifying the range for vendor-specific modes. Ed noted that there was precedence for this in FAIS_BITLSetPathPolicy (as a uint32). This was agreed.

Ed asked whether we should add the enumeration flag to all functions that return lists of objects. Greg noted that this was not necessary for GetStatus functions, just the Enumerate functions. Ed noted that it would be useful for filtering any list, such as client-specific and vendor-specific filters.

Greg noted that there is an “nStart” value for iterating across multiple enumerate calls. William noted that the Clients can be responsible for serialization, if necessary, to ensure multiple calls are meaningful.

Larry asked how the Client gets its ClientPHandle. It was noted that this must be stored by the Client after a successful call to FAIS_Init().

William asked why we are supporting upward references. He said it can be burdensome for Providers to support managing all downward references. Claudio suggested deferring this to letter ballot.

Greg noted that we need to add handle sets to the ChildParam structures so that they can be returned in VDEV_GetStatus

Claudio suggested a motion to incorporate these changes into the draft standard. Ed moved, Greg seconded; motion approved by acclamation. Greg was actioned to publish an updated version of 05-623v0, with the modifications from this conference call. Ed was actioned to incorporate these changes into the FAIS draft.

7. **Unscheduled FAIS business**

There was no unscheduled business.

8. **Review of FAIS action items**

The following new action items were noted:

AI 77: Greg Golubski will publish a new version of the enumeration proposal, as modified by the 9/8/2005 conference call, as 05-623v1.

New.

AI 78: Ed McClanahan will incorporate the changes reflected in 05-623v1 into the draft standard.

New.

9. Deferred FAIS action items

The following action items have been deferred until a future version of FAIS:

- AI 9: Ed McClanahan will propose an approach for supporting failover in the event of CPP failure. (Opened 1/13/2004)
Deferred to phase 2. EM said this is blocked behind 04-402 completion as he needs to understand the Provider state that must be managed during failover. Target: ??? meeting.
- AI 52: William Chow and Anshul Chadda will propose modifications to enhance processing of front-end commands.(Opened 3/4/2005)
Deferred to phase 2.
- AI 54: Maurilio Cometto to propose how Control event for XMAP would be supported. (Opened 3/14/2005)
Deferred to phase 2.
- AI 58: William Chow and Anshul Chadda will separate Client handling of control-path I/Os from faulted data-path I/Os. (Opened 4/6/2005)
Deferred to phase 2.

10. Next meeting schedule

This was not discussed.

11. Adjournment

A motion to adjourn the meeting was passed unanimously.