

Meeting notes for July 13, 2004 I++ DME implementer's conference call

Meeting secretary: John Horst
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July 13, 2004

Name	Organization	Present
Ray Admire	Lockheed Martin	
Manfred Becker	Zeiss	✓
Perluigi Borgogno	Wilcox Associates	✓
Andrew Cheetham	LK	✓
Dick Engel	GMPT	
Joe Falco	NIST	✓
Sandy Gill	Ford	
Swen Haubold	Mitutoyo	
Erhardt Heft	Zeiss	
John Horst	NIST	✓
René Keller	Metromec	✓
Tom Kramer	NIST	✓
Chuck Leckenby	Tecnomatix	✓
Mike Martini	General Electric Transportation	
Günter Moritz	Messtechnik Wetzlar	
Michel Penlae	Wilcox Associates	
Chiratana Pot	Tecnomatix	
Walter Punegam	Zeiss	
Josef Resch	Zeiss	✓
Bill Rippey	NIST	✓
John Rosser	Renishaw	
Ken Sheehan	Entelegence	
Dave Smith	LK	✓
Rob Stewart	Daimler-Chrysler	
Keith Stouffer	NIST	
Tim Taylor	General Electric Transportation	
Mark Vinson	Boeing	
Bob Waite	Daimler-Chrysler	
Betsy Weddendorf	General Electric Transportation	
Martin Wimmer	Zeiss	
Ron Wood	GMPT	
Ken Woodbine	Hexagon	✓
John Wooten	LK	

1 I++ DME and DMIS harmonization

John reported that Tom Kramer is planning to present the issue of I++ DME and DMIS incompatibilities at the upcoming DNSC meeting next week in Brighton Michigan, USA. Andrew pointed out that the purpose this and the upcoming December DNSC meeting

is to discuss and eventually release DMIS version 5.0. Tom and John said that we only expect to broach the subject with the DMIS community, present the facts of the matter, and begin the discussion of incompatibility resolution and harmonization. Furthermore, since no one from the I++ DME group will be in attendance (both Günter and Josef are unable to come on such short notice), it will not be possible to either have a full discussion of the issues, nor be able to make any resolutions on the matter. Josef suggested that we plan to have more substantial presentations and discussion at a future meeting of the DNSC. John promised to pursue this possibility.

2 IMTS demo

John reported that NIST has client-side software from several of the companies participating in the IMTS demonstration in September, and that NIST has started testing with several of these clients against the NIST I++ DME server-side utility. Bill pointed out that we plan to conduct a remote client-to-server interoperability testing event tomorrow between NIST and Zeiss via modem/phone connection. He hopes to test the several client-side implementations that NIST currently has in its testbed against the Zeiss server-side implementation. NIST currently has Tecnomatix's eM-Inspector and Hexagon's PCDMIS. NIST is close to obtaining Metrologic's Metrolog and still needs to obtain client implementations from LK and Metromec. It is a high priority for us to begin interoperability tests as soon as possible with the demo part (the DCX part) and the DMIS program (written by Julian Sauget at Delmia) in order to resolve any issues or bugs in the client and server I++ DME implementations. René and Bill agreed to begin interoperability testing remotely the week of July 26.

There was some discussion on the issue of I++ DME version number compliance by the various implementers participating in the IMTS demonstration. It seems that some of the interoperability problems NIST is experiencing may be due to incompatibilities between version 1.3 implementations and those compatible with version 1.4. John pointed out that the NIST server utility should be compatible with 1.4 in about two weeks. Josef remembered that we earlier agreed to compatibility with version 1.3 only. John said that we will take a wait-and-see attitude; if there is a problem between 1.3 and 1.4 compatibility, then we will resolve it appropriately. René pointed out that the Wenzel server-side implementation is currently 1.4 compatible.

Bill mentioned that he will be at the IMTS demo booth on September 2 (Thursday) to set up the demo equipment and software. He asked of those who are participating to be available to help with setup and potential test/debug on September 3rd and 4th. He added that the IMTS facility (McCormick Place, Chicago) will be "darkened" on the 5th and 6th, but he was unsure whether this meant that there could be no work done on those days. The show starts on the 8th and the 7th is a press day, so it is assumed that we must be ready before the 7th and perhaps before the 5th, which makes the availability of help on the 3rd and 4th so potentially critical to success.

Current commitments to IMTS participation have been made by the following companies:

Company	Node type
Zeiss	I++ DME Server
Hexagon	I++ DME Server
Wenzel	I++ DME Server
Metrologic	I++ DME Client
Tecnomatix	I++ DME Client
Hexagon (Wilcox)	I++ DME Client
LK	I++ DME Client
Metromec	I++ DME Client
DCS	DML-interpreting SPC software
Delmia	Offline Programming

3 I++ DME specification

Josef reported the 1.4.1 draft is complete as well as responses to comments in the excel spreadsheet. These drafts are being currently reviewed by members of the I++ DME group.

4 Progress on the NIST I++ DME test suite

John hopes to have a I++ DME spec version 1.4 compliant test suite completed in about two weeks. The next step is to add server-side test cases to the test suite by the end of September, 2004, which will make the test suite more closely approximate a "conformance" test. The goal ultimately is to have users test implementations using this test suite, prior to acceptance and purchase of the software or CMM. However, the issue of DMIS and I++ DME disharmonies is still a serious one and needs resolution.

5 New and outstanding action items

- NIST will ensure that the I++ DME and DMIS harmonization issue is addressed with appropriate participants from both groups in the near future.

Our next meeting is planned for July 26, 2004. Talk with you then!