

Attendees:

Brian Barnt	L5192	Jim Scorse	NCE
Karl Kobel	Wangrow	Rutger Friberg	101462
Thomas Birner	Roco	John Kabat	99066
B. Hunndl	77031	Ed Majury	Atlas
Reinhard Mueller		Richard Jane	1870
Steve Leon	2089	John Anderson	99478
Nathan Oxhandler	L534	AJ Ireland	Digitrax
Ken West	24948	Bill Attaras	Signalling Solution
Don Fiehmman	1667	Bernd Lenz	Lenz
Howard McKinney	038889	Harry Johnson	1292
Fraus Reichl	109834	Allen Pollack	L2576
Stan Ames	L	Jerry Seborn	110997
Michael Greene	L5433	Paul T Carver	L2310

Note: Agenda Items are in black; minutes are in blue; editorial comments are in italics.

1. Review of Summer Meeting

Brief Review of Spring Meeting in Germany, by Freiberg, Greene, Barnt
one correction to meeting notes as regards item 3 on this meeting agenda.

2. Topic 9906151; Development of new Test Boards

In test now, see Brian for more information. Sample available at the meeting
DCC Decoder Test Boards are now available from NMRA Headquarters. Special price is \$125 through 1-Jan-2001; Normal price is \$159 ea.

3. Standards (was S-9.2 Follow-up)

The Conformance & Inspection Department has brought up one new issue with S-9.1, Line 66. *“The minimum peak value of the NMRA digital signal needed to provide power to the decoder shall be +/- 7 volts measured at the track.”* should read *“The minimum RMS value of the NMRA digital signal needed to provide power to the decoder shall be 7 volts measured at the track.”*.

West & Barnt to develop figure as an alternative.

4. Topic 990603; Large Scale Connector

Comments about Aristo’s prototype were collected, and forwarded to Mr. Lewis Polk of Aristo. No response has been received, nor is any action required by the Working Group.

No update yet. Will check for update from Mr. Polk (Aristocraft) at National Train Show.

5. Topic 9910241; Analog Output Instruction

Steve is looking for input on this.

Still looking for input.

6. Proposal 9910242; RP-9.22; Function Mapping

No comments were received by 14-Mar-00; per the Chicago 1999 minutes, this change has been made to RP-9.2.2, and will be submitted to the BOT.

(No comments recorded.)

7. Proposal 0003061; RP-9.1.1; Electrical Interface

Jim Scorse, of NCE Corp., proposed changing line 40 from “shall [must] provide extra pins” to “may provide extra pins”. Further discussion in Wetzlar resulted in the desire to strike paragraph 3 of section C completely. A further proposal was made to document the colors for Output 1 and Output 2 (normally F1 and F2), per existing practice.

(No comments recorded)

8. Proposal 0003062; RP-9.2.2; Configuration Variables

Jim Scorse, of NCE Corp., proposed (prior to Wetzlar) that we eliminate the required default for CV that have no Uniform Specification. Further study showed that CV 2 was the only affected CV, and was approved by those in Wetzlar.

Ames: Proposed to add default value of 513 to be 1 - yes, pending AJ's Ireland (Digitrax) check of existing practice.

9. Proposal 0003063; RP-9.2.2; Configuration Variables

AJ Ireland, of Digitrax, proposed eliminating default values for all CVs, except CV1. This proposal was combined with 0003062, and closed.

(No comments recorded.)

10. Proposal 0003064; RP-9.2.2; Configuration Variables

AJ Ireland, of Digitrax, proposed removing the note at the bottom of CV29. "If the decoder does not support a feature contained in this table, it shall not allow the bit to be set improperly." This was discussed in Wetzlar; the consensus was that having a bit set in CV29 without the feature being present would result in chaotic results for the user. Note was made that this note should also apply to CV 541.

Vote to keep requirement in RP: Yes (11), No (1), Abstain (10)

11. Topic 0003171; RP-9.2.3; Basic Acknowledgement

At the spring meeting in Wetzlar, a proposal was made to remove the minimum time of 5 mS, and replace it with 6 mS +/- 1 mS, for all modes. There was consensus at the meeting.

Modified note in Agenda to read:

"At the spring meeting in Wetzlar, a proposal was made to remove the minimum time of 5mS, and replace it with 6mS +/-1mS for modes, if the decoder supports direct mode." Unanimous agreement on this change.

12. Topic 0003172: RP-9.2.3 Methods of programming required

A. Require that all decoders support all forms of Direct Mode after March 2002.

B. Remove the requirement that all command stations support paging by mode by Jan. 2003
Several manufacturers support a much earlier date for B.

Corrected to: "If decoders support more CV's than can be supported by address only and physical register modes, decoders must support direct mode."

RP-9.2.3 Section F, Select CV Programmers definition - "program a selected subset of CV's via Physical register addressing, paged CV addressing, or direct mode addressing. Subset must also include address only mode programming."

RP-9.2.3 in Section F - will include reference to verifying direct mode before using as described in lines 91 thru 94

Vote: all Yes, except for AJ, who needed to confirm with Zana and report to Brian B by end of show

13. Topic 9907191: RP-9.2.1 Accessory Decoder Programming

Revised Accessory Decoder wording.

Unanimous agreement to content subject to distribution of final wording for review

14. Topic 003172: Accessory Decoder CV's

Should the CV range for Accessory Decoder be moved from 513-1024 to CV's 1-512? Most Command Stations allow entry both ways.

Retain 513 + requirement for Ops mode programming; allow truncation of two highest bits of CV addressing in service mode programming

15. Signal decoders

Barnt report the request for information on European signaling systems was discussed at the recent MOROP Technical Commission meeting. Data is being

collected and sent to Bill Ataras. Ames/Barnt to distribute current proposal for review. Ames indicated plan to use "basic" and "extended" nomenclature for the 3 byte and 4 byte packets instead of referring specifically to signal decoders

16. RP-9.2.1 Control Bus

Proposal will be into Barnt by Oct 1, for review prior to Oct meeting, and discussion in Chicago. Barnt to convene meeting of sub-team if possible in San Jose in order to get draft completed.

17. Advanced Feedback

Actions:

- Send out draft of protocol to be used
- Lenz volunteered to build decoders that deliver advanced feedback to the layout so that all can test. Lenz also offered the data they have available on building a receiver.
- Discussion regarding other proposals
 - Zimo already considered, and while it may be extended
 - Request any other proposals by October meeting in Chicago *[extended till St. Louis]*
- Develop formal testing and documentation strategy for Lenz proposal
- Discuss possibility of intermediate step to simple advanced acknowledgement

18. Spring meeting in Europe

Action - poll for either after Nuremburg Toy Fair in Nuremburg, or in March or elsewhere.
[Comments on these dates needed]

19. Topic 0008031; Accessory decoder connector to turnouts

- Proposal from Friberg

Actions:

- pull together small team for investigation
- Proposal # 0008031 has been assigned
- discussion taken offline
- perhaps input side connector, output side connector

20. General Discussion

General discussion regarding ability to develop booster and decoders which have conformance seals, but still don't work together. How to resolve?