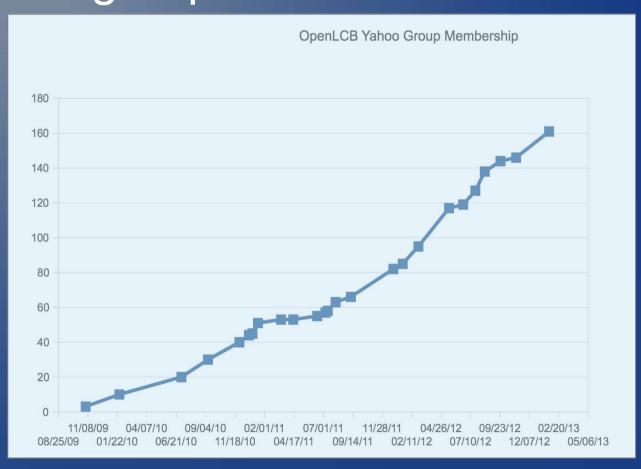
OpenLCB / NMRAnet

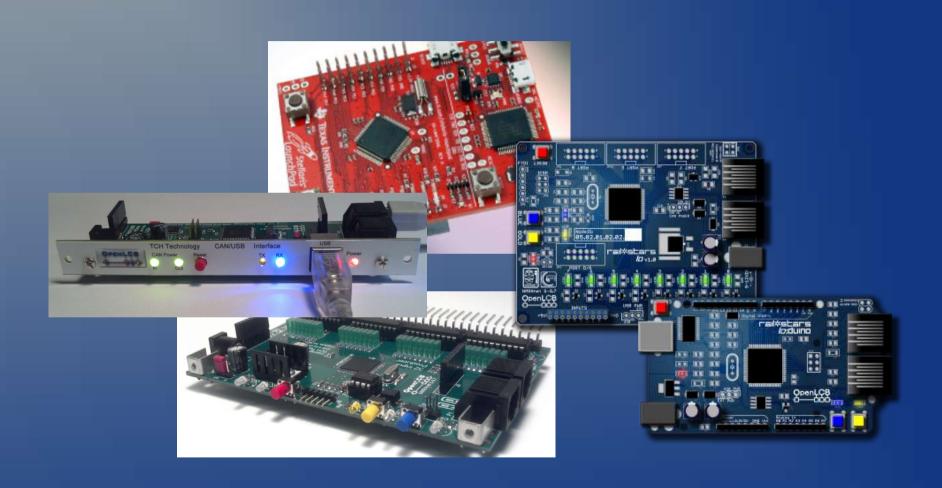
Progress Report to NMRA Board Winter 2013

Participation

Membership in the OpenLCB egroup continues rise above 160 members. The NMRAnet egroup has 52 members.



Activities - Hardware



Activities – Software/Apps



Activities - Shows

- NMRA 2012 Grand Rapids
- Springfield 2013 Show
- New Zealand AMRA Show



Articles

Don Goodman-Wilson published an introductory article "NMRAnet" in the NMRA Magazine:

ing technology aimed chnology, developed roject, simplifies the nfiguration, and opal aspects, block oc-Pexibility, along with sign that allows you this flexibility. Best signed to work with l while preparing it

many advantages to ses. First and forepen standard — the . What this means ake it easy for you vour own custom d software.

precedented flexof virtual "wires"

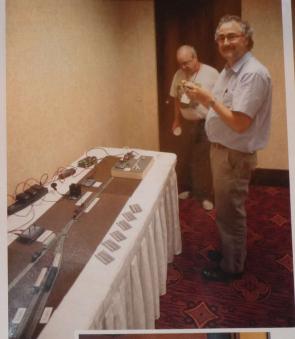


have the broadest that you can use to connect sensors and acproducts to choose tuators in any conceivable combination. consumer sees an event report it is configbeing pressed. Once an event of interest is is only the start. detected, the producer produces an event watch for these event reports. When the easy. Most NMRAnet boards will have a

aind that no matter Sensors — what we call "producers" — ured to watch for, it can then take some acork together prop-sit on your layout and watch for a layout tion, perhaps setting a signal aspect, moving r those that enjoy event, perhaps a block becoming occupied, a turnout, even starting an animation, or a turnout moving into position, or a button changing the lighting in the room. But this

This flexibility is worthless if it can't be report that is broadcast to the entire layout. easily configured. NMRAnet is designed Actuators — what we call "consumers" — from the ground up to make configuration

> face for configuring relationships. For more complex configuration tasks, piece of NMRAnet face ratio in N anet configura tools, but watch and apps



it is designed to w trains. NMRAnet ticular train contro

and human interfa er they are DC, pensive gateways, continue using yo

We're very e control. Welcom railroading!



clinic on NMRAnet at the 2012 Grand Rapids

and an



NMRAnet / OpenLCB DevKit



NMRAnet Process

We are planning:

- The NMRAnet egroup is to review and, with the OpenLCB working group, complete a package of Standards and Technical Notes.
- This package will be presented the NMRA Board, at their meeting at the 2013 National Convention in Atlanta, for adoption.

NMRAnet Protocols

PASSED:

- S-9.7.1 NMRAnet® Physical Layer Standard
- TN-9.7.1 NMRAnet® Physcial Layer Technical Note

NMRAnet Protocols Cont'd

SUBMITTED to the NMRAnet egroup:

- General Information Technical Note
- General Glossary Technical Note
- Unique Node Identifiers Standard/TN
- CAN Frame Transfer Standard/TN
- Message Type Indicator Allocations Table

- - -

NMRAnet Protocols Cont'd

SUBMITTED to the NMRAnet egroup:

- General Configuration Definition Information Standard and TN
- General Abbreviated CDI Standard and TN
- Simple Node Information Protocol Standard and TN
- General Event Transport Standard and TN
- General Datagram Transport Standard and TN

What is Needed from the NMRA

More promotion ---

- Clinics
- Advertisements / notices in NMRA magazine
- Follow-up articles

Superstructure ---

- Testing and licencing
- Link to NMRAnet on NMRA website

OpenLCB / NMRAnet

The Bus with Legs!

