Approved Minutes of the I.E.E.E. P1451.3 Working Group Teleconference

Date: Wednesday, November 21, 2001
Time: 10:00 AM PT (1:00 PM ET)

Acting Officers

Larry Malchodi, Chair
Bryan Tracy, Secretary

Agenda

1. Approve agenda & take attendance

2. Sub-group status & schedule review

HPNA	Mike Moore
TEDS	Arati Baruah
Connectivity	Al Owen
T-Block	Carlos Lopez-Reyna
Synchronization	Steve Smith
Users Guide	Charles Jones

3. T-block draft discussion
4. Editor's corner: protocol documents discussion

Glossary

DOCSIS	Data Over Cable Service Interface Specification
DotX	The IEEE 1451.X Standard
DTD	Document Type Definition (used with XML)
FDMA	Frequency Division Multiple Access
FPGA	Field Programmable Gate Array
HPNA	Home Phone Network Alliance (HomePNA)
HTML	Hyper Text Markup Language
Isochronous	i·soch·ro·nous (ī-sŏk′rə-nəs) occurring at equal intervals of time (referring to media access)
ITU	International Telecommunications Union
NCAP	Network Capable Application Processor
NIST	National Institute of Standards & Technology
ORNL	Oak Ridge National Laboratory
QAM	Quadrature Amplitude Modulation
QPSK	Quadiphase-Shift Keying
Schema	A template structure similar to DTDs
SIG	Special Interest Group
TOD	Time Of Day
TBIM	Transducer Bus Interface Module
TBC	Transducer Bus Controller
UUID	Universal Unique Identifier
XML	Extensible Markup Language

1) Approve agenda & take attendance

Attendance was taken. There were no changes to the agenda.

2) Review & approve minutes from last meeting

Minutes from 11/14/01 were reviewed and approved.

2) T- block Draft Discussion

Carlos Lopez reviewed "Dot3 Tblock v1.4a.doc" using NetMeeting.
Which he had distributed via e-mail on 11/14/01.

4) Sub-group status & schedule review

Protocol and T-block discussions consumed the meeting time. Subgroup status was not reviewed this week.

Physical	Mike Moore
T-Block	Carlos Lopez
Synchronization	Steve Smith
TEDS	Arati Baruah
User's Guide	Charles Jones
Connectivity	Al Owen

5) Editor's corner: protocol documents discussion

Lee Eccles reviewed "IEEE_1451dot3_datagram_protocol_11_20_01.doc".

Epochs are 100ms intervals part of which is isochronous and part is asynchronous

Transmissions are sent during predefined time slots. An *epoch* contains a series of reserved time slots – the *isochronous* period -- which is followed by a contention based *asynchronous* time allotment.

Lee then shared "Trigger_protocol.doc" via NetMeeting for review. Below is a diagram from that document.

Figure 1 shows how this protocol fits into the Seven layer model of a protocol stack.

ISO 7498 7 Layer Model	IEEE p1451.3 proposed protocol stack

NCAP or TBIM Application
(This is above the communications stack and is not part of the 7 layer model)

ISO 7498 7 Layer Model

Application → T-Block (Layer 7)

Presentation →

Session → Layers 5 and 6 | Security & Encryption Protocols (Someday maybe)

Tunneling Trigger Protocol

Transport →

Network → IEEE p1451.3 Datagram Protocol | Others as required

Data Link → Logical Link Control Sublayer Modeled after IEEE 802.2

Media Access Control (MAC) Sublayer Modeled after IEEE 802.16
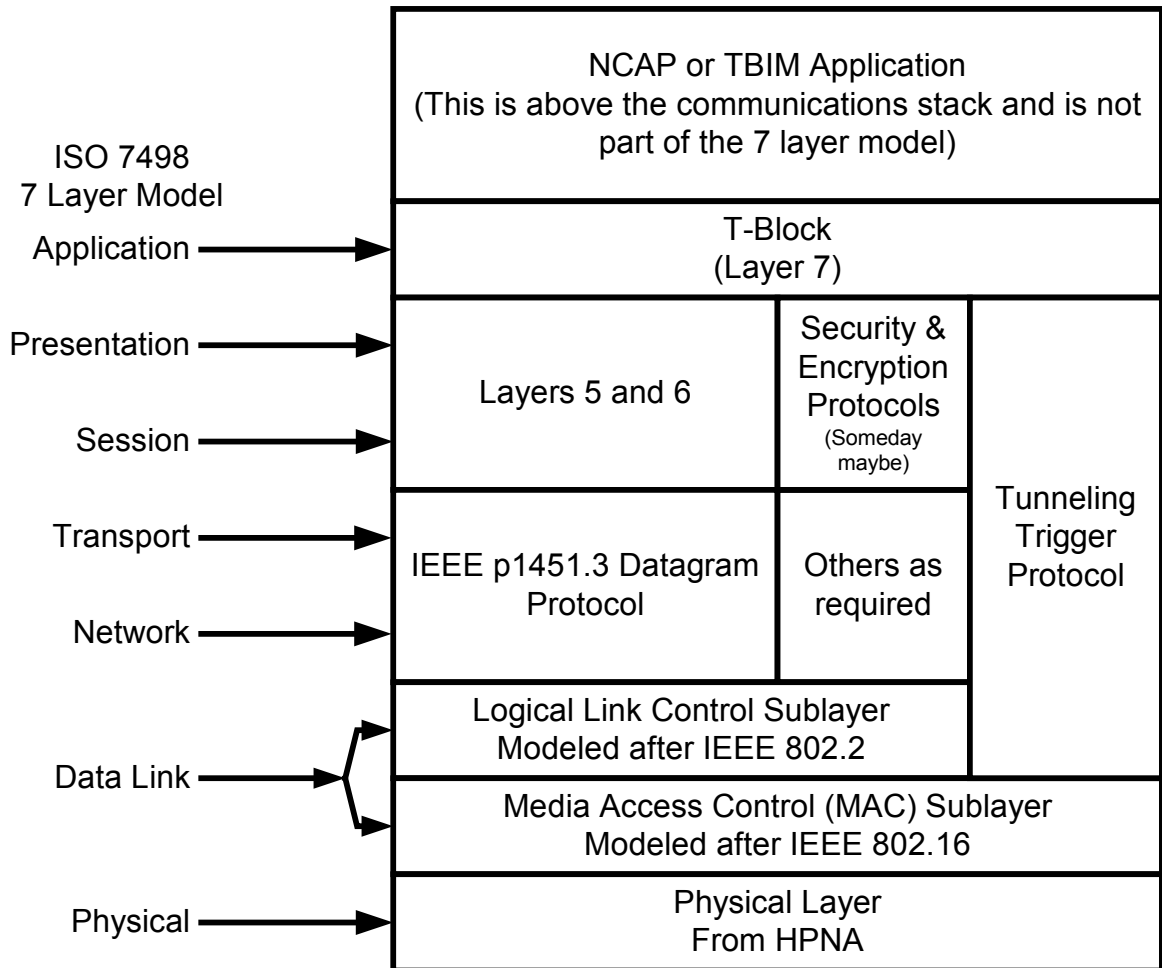
Physical → Physical Layer From HPNA

Figure 1 IEEE p1451.3 proposed protocol stack

Attendance

Name	Company	08 29 01	09 05 01	09 12 01	09 19 01	09 26 01	10 10 01	10 17 01	10 31 01	11 14 01	11 21 02
Balchin, Gregory	Naval Surface Warfare Center										
Baruah, Arati	**Boeing**	X	X	X		X	X		X	X	X
Brooks, Thurston	Aeptec Microsystems, Inc				X						
Bryan, Bill	ORNL										
Buckner, Mark	**Oak Ridge National Lab**	X	X								
Carpenter, Bill	Eaton Corp.										
Catlin, Wayne	**Boeing**	X	X	X	X	X	X	X	X	X	X
Chen, Steven	Aeptec Microsystems, Inc										
Clark, Tom	Hyperfine										
Dominique, Russell	Aeptec Microsystems, Inc										
Eccles, Lee	**Boeing**	X	X	X	X	X	X	X	X	X	X
Gardner, Wally	Halliburton Energy Services										
GenKuong, Fernando	**Endevco**		X			X	X	X	X	X	
Hambly, Richard M.	**CNS Systems, Inc.**		X	X		X			X	X	
Hammett, Rob	Charles Stark Draper Laboratory										
Jones, Charles	**Instrumentation Div. - Edwards AFB**	X	X		X		X	X	X		X
Juelfs, Rodney	Boeing										
Kelley, Anthony	NASA Marshall Space Flight Center										
Klein, Max	Scitefair International, Inc.										
Konz, Daniel	Boeing										
Lange, Eric	**NVE Corp.**	X	X								
Lee, Kang	**NIST**										
Lenarduzzi, Roberto	ORNL									X	X
Licht, Torben	**B & K**	X				X					
Lopez-Reyna, Carlos	**Scitefair International, Inc.**	X	X	X	X	X	X	X	X	X	X
Malchodi, Larry	**Boeing**	X	X	X	X	X	X	X	X	X	X
Maxwell, Daniel	**Walden Technology Source, Inc.**	X	X		X		X	X	X	X	X
Moffitt, Paul	Frequency Devices										
Moore, Mike	**ORNL**		X		X		X	X			
Owen, Allan	**Eaton Corp.**	X		X		X	X		X	X	
Randall, Bob	YSI										
Read, Jim	**Moore Industries-International, Inc.**		X	X					X		
Segal, Andrew	Gigahertz Design Technology									X	X
Shoup, Dale	Independent Engineer										
Sinclair, Bob	**NVE Corp.**	X	X			X	X			X	X
Slack, Mark	Boeing										
Smith, Steve	**ORNL**	X	X		X			X	X	X	X
Starr, Dr. Tony.	Strain Monitor Systems										
Strauss, Steve	Agere Systems										
Swanson, Bruce	Endevco										
Tracy, Bryan	**Harco Advanced Components**		X	X	X			X	X	X	X
Zemel, Jay	Scitefair International, Inc.		X		X	X					X
		13	17	9	11	11	11	10	13	13	13