

# 2008 Annual Meeting

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## General Session

Tom White  
President & CEO  
MIDI Manufacturers Association

## MMA Objectives

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- Identify and Resolve Interoperability Issues
- Identify and Respond to Market Needs
- Defend MIDI Brand/Trademarks



## HD Protocol

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- Removes Obstacles to Ease of Use and Innovation
- 10x Channels and 100x Controllers
- RPN/NRPN in Controller Space
- Bank Select/Program Change in One Message
- Efficient for Computers (64 bit packet)
- Native High Resolution Control



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## “HD-MIDI”?

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- Name has Created Some Confusion in Japan
- Name is not Useful without Protocol Spec.
- We will Suspend Use of this Name for Now
- Completing Packet Design is #1 Goal



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## HDWG Statement

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We recognize the opportunity to design many different features into the HD Protocol. There are areas we can improve on that are common to many users and manufacturers. And there are things we would like to do to meet the needs of niche markets and those not well supported by current MIDI. But meeting everyone's needs is too much to accomplish in a reasonable time.

Therefore we have settled on a plan to develop the HD Protocol in steps (phases), providing a subset of the desired functionality in the first phase, so that we can bring products to market sooner. As we add functionality this will provide the market with repeated opportunities to demonstrate the ongoing growth and potential of the HD Protocol.



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## HDWG Phase 1 Goal

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- Define a 64 bit packet structure that:
  - Encompasses the functionality of all MIDI 1.0 messages (in unified messages)
  - Provides more Channels and higher resolution
  - Can contain 32 bit data values
  - Can be extended for longer messages
  - Supports new (future) event types offering greater expression and new articulation models.
  - Can be supported on many transports



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## HD Files & Transports

- Need File Format (like SMF) for HD-Protocol
  - First provide SMF functionality, not much more
  - Later add media sync, DRM, notation support, etc.
- Need Interoperable Transports
  - First HD Products could connect to computer using USB and custom driver
  - Later add class driver and “peer to peer” transport
  - Transport adapters may also used



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## HD vs. MIDI 1.0

- HD Probably a Premium Feature (Initially)
- HD and MIDI Devices to Co-Exist
  - Data translation described in HD Specification
  - Users will upgrade as needed
- HD for e.g. High Resolution Control Surfaces
  - Compete on features, not on compatibility
  - Reduced effort for software and hardware makers
  - Easier and more reliable recording/editing



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## Technical Items Review

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- Adopted in 2007:
  - Mobile Musical Instrument Specification
  - High Resolution Velocity Prefix
- Under Discussion:
  - HD-Protocol
  - 3D Sound Controllers
  - Etc. (see TB session)
  - V-Link (maybe)



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## MIDI.org Web Site

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- Complete Redesign in 2007
- Improved Navigation
  - Easier to find related items (e.g. all SMF RPs)
  - Less clutter, better hierarchy
- More Consumer Information
- Jobs Board & Forum
- Store (Books and more)



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# Member Soapbox

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- Discuss AGM value, MMA value, etc.
- Share Info on Related Industries, Standards, etc.
  - IEEE 802.11 AVB
  - Music XML
  - Other... ?



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