MMUSIC Working Group Recharter

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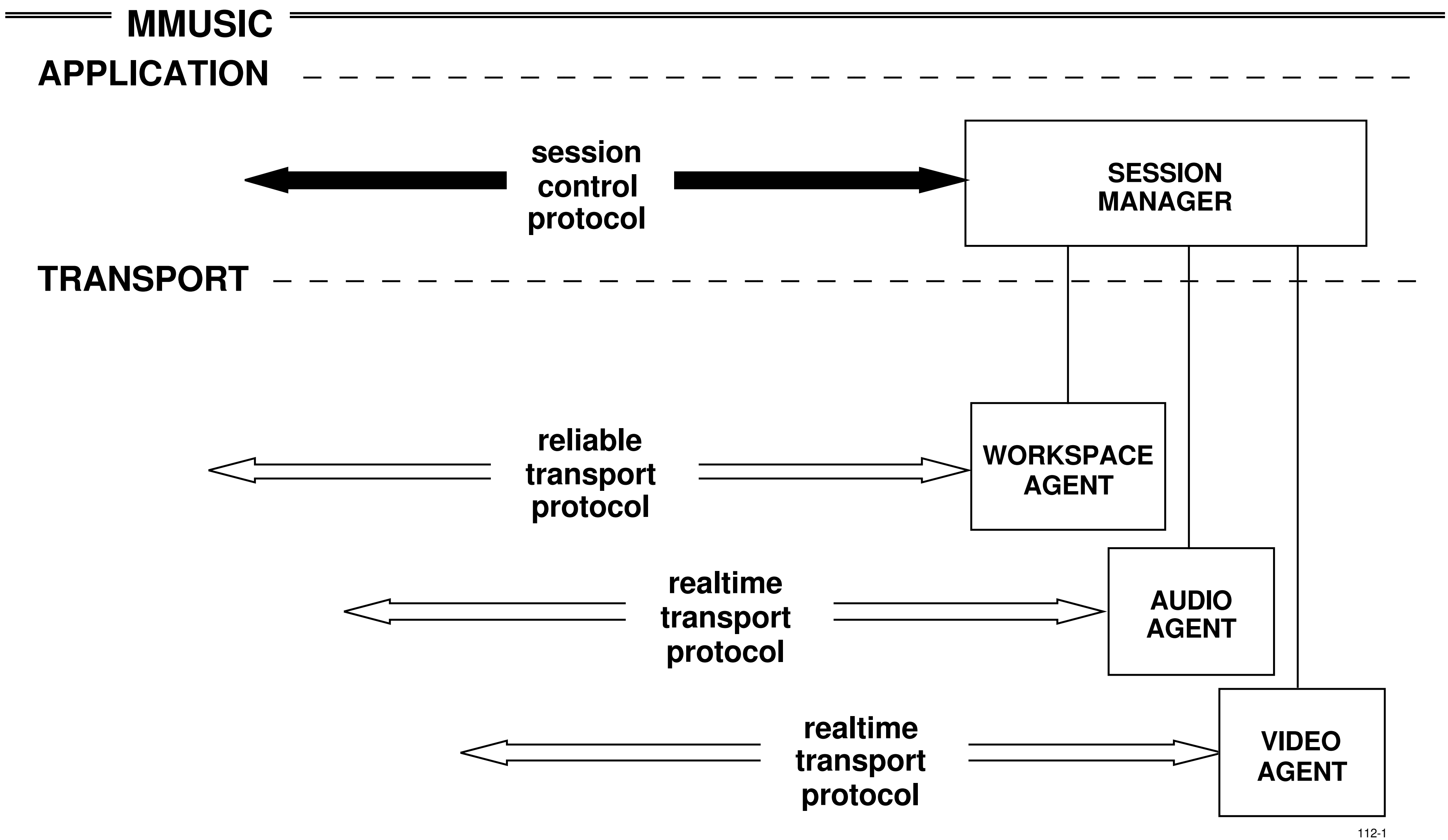
What’s The Same?

- **Goal:** Develop protocols to support advertisement, management, and coordination of multiple sessions and their multiple users in multiple media
- **Control Architecture**
- **Support for Range of Conference Styles**
- **Coordination with other multimedia conferencing efforts**
  - RTP/RTCP (AVT)
  - Resource reservation and management (INTSERV, RSVP)
  - Multicast Address Allocation
  - Directory Services (WHIP, IIIR, IDS)
  - Session advertisement and orchestration
- **Eve Schooler**

A MODULAR CONTROL ARCHITECTURE



CONFERENCE STYLES

point-to-point call impromptu hallway meeting architecture design review classroom panel discussion seminar lecture pay-per-view TV broadcast	more coordination more rigid more overhead smaller sessions more static less coordination fewer policies less overhead larger sessions more dynamic

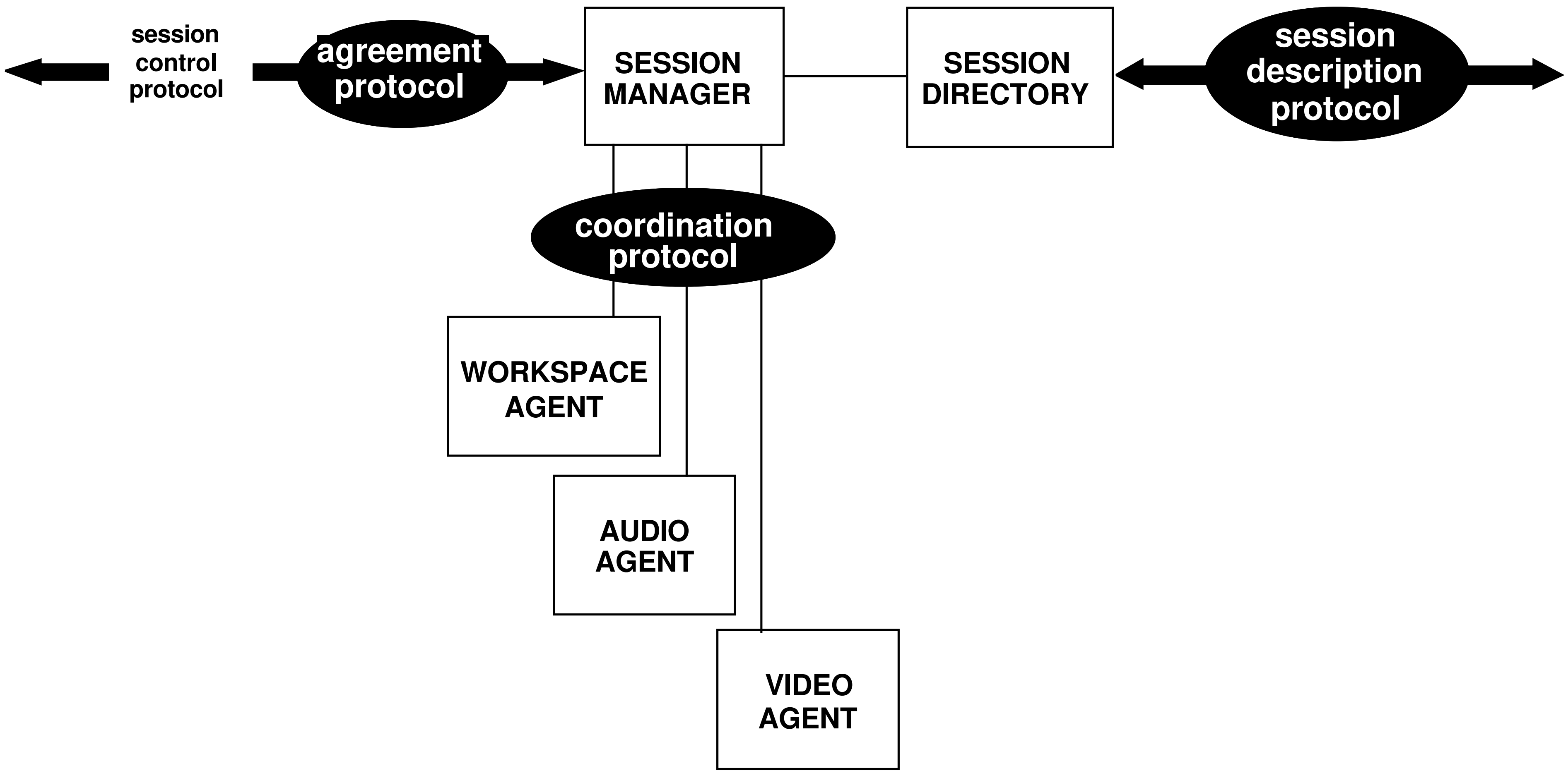
What's Different?

MMUSIC

- **Renewed focus on protocol development supporting loosely-controlled conferences**
- **Identification and documentation of interoperability issues with**
  - International Standards bodies (e.g., ITU-T)
  - Industry Consortiums (e.g., IMTC, PCWG)
- **New goals and milestones**
- **Mark Handley and Ruth Lang**

REVISED PROTOCOL GOALS

MMUSIC



Framework Document

- **Purpose**
  - One-stop shopping for MMUSIC concepts
  - Expand on charter
  - Embody:
    - Architectural model
    - Definition of terms
    - Description of protocols with respect to architectural model
    - Internet operating environment consideration
  - Identify interoperability issues (?)
- **Milestone: Post an Internet-Draft describing the MMUSIC Architectural Framework (May 95)**

Agreement Protocol

- **“Managing Shared Ephemeral Teleconferencing State: Policy ad Mechanism,” Shenker, Weinrib, Schooler, (ftp://ftp.isi.edu/confctrl/docs/agree.ps)**
- **New to charter are explicit milestones for formalizing specification and usage**
- **Milestones**
  - Post an Internet-Draft describing the Session Agreement Protocol (Apr 95); revise (Jun 95)
  - Submit the Session Agreement Protocol to the IESG for consideration as an Experimental Protocol (Nov 95)
  - Post an Internet-Draft describing the usage of the Session Agreement Protocol (Jul 95); revise (Sept 95)
  - Submit the Session Agreement Protocol Usage document to the IESG for consideration as an Informational RFC (Nov 95)

Session Description Protocol

- **Formalizes and extends protocol used by *sd* tool (Jacobson)**
- **"SDP: Session Description Protocol," Handley, Jacobson, (ftp://ds.internic.net/internet-drafts/draft-ietf-mmusic-sdp.00.{txt,ps})**
- **Milestones**
  – Post an Internet-Draft describing the Session Description Protocol (Mar 95) - DONE!
  – Submit a revised Internet-Draft on the Session Description Protocol (Jun 95)
  – Submit the Session Description Protocol to the IESG for consideration as an Experimental Protocol (Nov 95)

Session Coordination Protocol

- **Protocol focus on management of distributed processes (media agents) which comprise endpoint of a session**
- **Design Issues**
  - Coordinate collection of processes within or across processor boundaries
  - Accommodate and complement RTCP
  - Support functions such as
    - floor/focus control
    - application control
    - membership management
    - policy distribution
    - conduit for agent-specific information

Session Coordination Protocol (cont.)

- Relevant work
  - “Message-Based API for the Dynamic Configuration of Multimedia Conferencing Applications, Schulzrinne (GMD Fokus)
  - Conference Control Channel Protocol (CCCP), Handley/ Wakeman (UCL)
  - media access and media control buses, McCanne/Jacobson (LBL)
  - Conference Information and Request Protocol, TelescopeVP, Ott/Bormann (Tech. Univ. Berlin/Univ. Bremen)
- Post an Internet-Draft describing Requirements for a Session Coordination Protocol (Jul 95)
- Post an Internet-Draft describing the Session Coordination Protocol (Sept 95); revise (Jan 96)
- Submit the Session Coordination Protocol to the IESG for consideration as an Experimental Protocol (Mar 96)

Interoperability Issues Discussion

- **Develop interoperability usage scenarios to provide context for discussion/design**
- **Protocol/application gateways required for syntactic translation**
- **Degree of semantic interoperablity more likely with tightly-controlled session styles**
- **Goal: Develop protocols such that interoperability via gateways is feasible/easy**
- **Can portions of protocols be adopted/adapted directly?**
- **Determine whether to form a liaison with**
  – ITU-T
  – IMTC
  – PCWG
  – Interactive Multimedia Association
  – Others?