



---

**Poseidon House  
Castle Park  
Cambridge CB3 0RD  
United Kingdom**

TELEPHONE:  
INTERNATIONAL:  
FAX:  
E-MAIL:

**Cambridge (01223) 515010  
+44 1223 515010  
+44 1223 359779  
apm@ansa.co.uk**

---

## **ANSA Phase III**

# **DIMMA Amber**

**Andre Kramer**

### **Abstract**

The presentation outlines a proposal to further the DIMMA project by adding application level support for multi-media.

The MBONE internet conferencing approach is proposed as a test ground for computer participative multi-media.

The integration of DIMMA with the Vic MBONE tool and the addition of streams to DIMMA is proposed.

---

APM.1669.00.01

**Draft**

6th December 1995

Request for Comments (confidential to ANSA consortium for 2 years)

---

**Distribution:**

**Supersedes:**

**Superseded by:**





## Amber

- **DIMMA**
- **QoS control**
- **Application processing**

# Multi-Media



## Routes

- **DCAN - ATM / LAN**
- **RETINA - TINA B-ISDN**
  - constant bit rate
- **Amber - Internet MBONE**
  - loose conferencing model



## Proposal

- **Take Vic MBONE video conferencing tool,**
  - multiple encodings: H261, JPEG, CELLB
  - multiple senders as well as multiple receivers
  - adaptive RTP (Real Time Protocol)
- **add DIMMA Streams.**
  - predictability via use of DIMMA RT and QoS
  - network independence via DIMMA protocols
  - alternative conferencing models and control



## Results

- Streams - IDL and API
- explicit binding
- QoS management
- Demonstration

## Internet and CORBA



## Status

- **MBONE Infrastructure**
  - Video card with hardware encoders
  - decoders: LAN of fast workstations
- **DIMMA**
  - IP Multicast protocol module
  - Multicast stream design
- **VIC**
  - Integration with DIMMA
  - Placement of stream interfaces