

## **Statement D90-2000**

### **THE NEED FOR AN END-TO-END BROADCAST CHAIN APPROACH IN BROADCAST SYSTEMS DEVELOPMENT**

1. The development of new broadcast systems can only proceed in manageable portions. It is inevitable that groups in different parts of the world, or developing different parts of the broadcast chain, work to some extent independently.
2. For some elements of broadcast systems, the financial and convenience cost penalty of the use of non compatible systems or non-interoperable systems, which either perform the same tasks, or need to be interconnected, can be dramatic. Therefore a concerted approach to achieve compatibility and/or interoperability as appropriate is needed, while recognising that independent groups will work on systems development. Different parts of the broadcast chain will use many of the same tools.
3. The development of tools for using internet protocol, for storage and delivery of audio-visual content, are one case where a unified approach for production, contribution, and home delivery when possible, is needed. In particular contribution and distribution transmission can be seen as tools for programme production, and thus need to be developed together with tools for the use of IP in the studio.
4. The development of metadata libraries and protocols are a second case where a consistent approach to allow systems to be interoperable needs to be developed. Inevitably there will be different metadata communities with different requirements, but a common transport protocol or syntax and universal signalling to indicate the community, are needed.
5. Both of the above require considerable coordination and leadership, but will bring substantial rewards.