Modification of the Scope and Purpose of Project JTC1.06.36, Enhanced Transport Mechanism Guidelines

The following text replaces the corresponding text contained in SC 6/N 6887 (JTC 1/N 1515), the New Project proposal for "Enhanced Transport Mechanism Guidelines".

Scope and field of application:

This project will define guidelines and principles to be used to enhance the lower layers of OSI. This framework will be used to coordinate the work on enhancements, which must take place in the context of specific new projects proposed and balloted by JTC1.

The project is for the development of guidelines for the lower layers to support enhanced functions and facilities, which may include (but are not limited to):

* Very high data throughput capability for operation over high speed transmission facilities (e.g. ATM, FDDI, and B-ISDN)
* Multicast operation to support multipeer applications
* Selectable error control procedures
* QOS selection and management (e.g., for latency control)
* Out-of-band signalling and synchronization
* Efficient operation

The work will involve the identification of needed functions and facilities, and their partition into functional layers. Work on any project undertaken in the context of these guidelines which results in the development of functions or facilities that are not covered by the existing OSI reference model architecture must be undertaken in liaison with SC21. Consideration must be given to ensuring interworking with existing OSI conformant systems. Also, the intent is to add new functions and facilities, not to destabilize existing services and protocols.

The program of work is expected to include:

1) The identification of application requirements that have implications for OSI lower layer services and protocols.
2) The examination of existing OSI lower layer services and protocols to determine if the requirements identified in (1) can be met by existing or pending OSI standards.

3) In those cases in which requirements cannot be met by existing or pending OSI standards, the consideration of proposals for modification/extension of existing OSI services and protocols.

4) In those cases in which neither of the approaches outlined in (2) and (3) is sufficient to satisfy identified requirements, the consideration of proposals for new services and/or protocols.

Purpose and justification:

The purpose of this project is to ensure the growth and applicability of OSI in the context of enhanced functions and facilities such as those stated in the Scope, while ensuring that interoperability is not compromised, and that unnecessary disruption and destabilization of the existing OSI environment does not occur.