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Title: ISO/IEC JTC 1 Special Group on Functional  
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Secretariat: NNI (Netherlands)

Title : General information on the Aeronautical OSI Profile and the ACCTS  
IWG.

Source : Aviation Coordinating Committee for Telecommunications Services  
Internetworking Working Group (ACCTS IWG)

Status : For Information

Note :

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FACSIMILE

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## MESSAGE

Mr. Bessems,

Thank you for your prompt response to my request. As you request, I have included a letter which briefly describes the IWG charter and their work program. I have also sent a copy of the Aeronautical OSI Profile (AOP) which represents the work of the IWG for the past two years. Again, thank you for your assistance and please do not hesitate to contact me.

S. c Regards,

Howard Lock

The aeronautical industry has committed to the implementation of open communications systems based on the Open Systems Interconnection (OSI) Reference Model. Work intended to progress the implementation of OSI products and service within the Aeronautical Industry is proceeding in a number of different national and international forums, including: International Civil Aviation Organization (ICAO), International Air Transport Association (IATA), and the Airlines Electronic Engineering Committee (AEEC). These, along with our group and other industry organizations, are working to make the implementation of OSI products and services within the aeronautical industry a reality.

The IWG is involved in an intensive effort to specify a set of implementation and procurement profiles for the Air Transport Industry, modeled after various regional OSI profiles. This work specifies the Aeronautical OSI Profile (AOP).

As work progresses in the IWG, it is forwarded to the IATA Architecture Strategy Group (ASG). They, in cooperation with ATA, formally publish the document as the "ATA/IATA Aeronautical OSI Profile".

### 1. Purpose

The purpose of the AOP is to coordinate the international implementation of OSI within the Aeronautical Industry. It is designed to be used to support the acquisition and operation of Automatic Data Processing (ADP) systems or services and communications systems or services intended to conform to ISO Open Systems Interconnection protocols which provide interoperability in a heterogeneous environment.

### 2. Objectives

The objectives of the AOP are to:

- a. Define the objective OSI architecture for the Aeronautical Industry.
- b. Identify a suite of OSI protocols needed to support the aeronautical industry.
- c. Reference or provide definitive guidance for use in engineering, design, development, and manufacturing of OSI products and services for the aeronautical industry.
- d. Reference preferred implementations of international OSI standards.
- e. Define conformance testing policy and procedures.
- f. Reference or provide general guidance for developing OSI migration strategies.

### 3. Scope

The AOP should provide voluntary guidance applicable to the international aeronautical industry. The material presented in the document should be referenced as appropriate by national and international organizations developing aeronautical communications standards/implementations. Within the context of the AOP the Aeronautical Industry includes air space users, Civil Aviation Administrations (CAAs), airline reservation systems,

service providers, vendors, manufacturers and other interested stakeholders in the aeronautical industry.

The ACCTS/IWG membership is open to anyone with a vested interest in airline communications. There are no membership fees or dues. All decisions are made on a consensual basis, and are made in an open forum.

## **IWG ACTIVE MEMBERSHIP**

### AIRLINES

Air France  
American Airlines  
British Airways  
China Airlines  
Delta Airlines  
Garuda Airlines  
Japan Airlines  
KLM Royal Dutch Airlines

Lufthansa German Airlines  
Pan American World Airways  
Scandinavian Airlines  
Singapore Airlines  
Swissair  
United Airlines  
USAir

### Computer Reservation Systems

AMADEUS  
COVIA  
GALILEO

PARS Service  
System One Corporation

### SERVICE PROVIDERS

ARINC Engineering

SITA Engineering

### VENDORS

AMDAHL Corporation  
AT&T Bell Laboratories  
Control Data Corporation  
CR Systems  
Digital Equipment Company  
L. M. Ericsson  
Hughes Network Systems

IBM Corporation  
MITRE Corporation  
NCR COMTEN  
Northern Telecom  
Tandem  
UNISYS

### SECRETARIAT

ARINC Industry Activities  
ATA

IATA

1. The ACCTS IWG has prepared AOP Version 1.1-1 which represents "AOP Working Document" revisions to the recently approved ATA/IATA AOP Version 1.1 May 1992.
2. The IWG has created a working group to evaluate Application Programming Interfaces (APIs). Two distinct types of APIs, data communications APIs and application layer APIs, are currently being addressed by the working group.

In addition, this working group will address the larger issue of a strategic migration path to open systems. They expect to identify specific migration issues and develop a detailed implementation guide which will contain the definition, recommendation, tutorial, prototype and implementation materials. The API/Migration working group considers such a document as an Aeronautical road map which is essential for navigating in an OSI environment. As part of their work program, the working group has identified five major migration issue areas: Applications, Access devices, Network, Platforms, and Management and Addressing. A definition, recommendation, proof of concept, and implementation and tutorial guide may be prepared for each of these issues.

3. The IWG is planning the formation of a working group to address network management issues. The IWG has recognized that the use of effective management of communications can provide significant benefits in the life cycle cost of communications. The use of global standards such as the OSI network management standards can present significant advantages over that of proprietary network management solutions. This advantage is expected to become more evident as communications systems become more diverse and open. The IWG Network Management working group is expected to address OSI network management issues which deal with the use of dynamic network management protocols between peer management processes in the daily operation of a network. As their initial work program, the Network Management working group will evaluate the family of network management standards, namely, Basic Structure standards, Communications standards, Managed Objects standards, and System Management Function standards.
4. The IWG has also formed an MHS working group whose charter is to develop a MOTIS (X.400) profile based on the ISO/IEC 10021 standards. The working group will also review applicable internationally Standardized Profiles (ISPs). These ISPs standardize the use of options and other variations in the base standards, and provide a basis for the development of uniform internationally recognized system tests. As a far term goal, the IWG will consider the submission of the profiles contained in the AOP for recognition as an ISP. ISP consideration of the AOP could be beneficial to the Aeronautical Industry as it would offer wider acceptance of the profiles, provide wider product availability, and consequently offer the airlines the benefit of an economies of scale of OSI based products optimized for the Aeronautical Industry.
5. The IWG has planned the following meeting schedule for 1992 and 1993:

#### 1992 MEETING SCHEDULE

<u>DATE</u>	<u>LOCATION</u>	<u>SPONSORING ORGANIZATION</u>
December 7-11	ROM	IBM

#### 1993 MEETING SCHEDULE

<u>DATE</u>	<u>LOCATION</u>	<u>SPONSORING ORGANIZATION</u>
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March 15-19	MUC	Siemens
*June 14-18	YUL	EICON Corp
September 13-17	LON	Amdahl Corp
December 6-10	SIN	Singapore AL/Tandem

\*Planned as a joint meeting with the AISG.