

GET THE MESSAGE GET THE MESSAGE GET THE MESSAGE GET THE MESSAGE GET THE MESSAGE GET THE MESSAGE



Copperchase Common Gateway (CCG) For ATS Messaging

The Copperchase AMHSGATE is a high performance multi-protocol message gateway that conforms to the ICAO ATN SARPs for ATSMHS applications, and more specifically on the AFTN/AMHS Gateway specified in these SARPs. Based on the industry standard Microsoft Exchange 2000 Server and X.400 MTA, the AMHSGATE combines the AFTN expertise of Copperchase with the OSI communications services of industry leaders BoldonJames. The total AMHSGATE solution paves a way for a seamless transition from today's ATC Messaging Service of the AFTN to the exciting world of the Air Traffic Services Message Handling Service (AMHS - X.400).

Key Features

- High reliability for mission critical operation
- Highly scalable architecture and performance
- Convert AFTN message formats to AMHS message formats and vice versa
- API allows the submission and reception of AFTN messages for 3rd party applications.
- Supports X.400 (92,88,84) messaging for maximum interoperability
- Available on Windows Exchange 2000 Server

Comprehensive Management Tools

The AMHSGATE provides comprehensive tools to support the system administrator. Management features include the ability to re-route messages, time schedule message channels for cost and message flow control. Comprehensive logging is provided for audit and message tracking.

Integration

The power and flexibility in the Copperchase AMHSGATE is provided by the Microsoft Exchange 2000 Server combined with the X.400 MTA. By utilising the Microsoft Exchange Server as the basis for the AMHSGATE solution, Copperchase has created a generic and total COTS messaging solution that even surpasses the initial requirement for the EUROCONTROL EATCHIP Enhanced Communications Gateway (ECG). The AMHSGATE has been designed to facilitate the smooth transition from existing communications and networks towards the ATN.

This is an Industry product that allows States to purchase an ATN-compliant communication system as an off-the-shelf commercial product. The AMHSGATE:

- Allows a phased evolution from a variety of initial situations towards enhanced harmonised ATM Communications using the ATN. This is achieved using the Microsoft Exchange Servers ability to integrate various formats/protocols via gateway facilities to communicate with a common message switch interfacing with the relevant ATN applications.
- Uses scalability and modularity for ease of implementation and suitability
- Is a proprietary file-based API for 3rd party applications.
- Uses directory Services for dynamic distribution lists, and routing.

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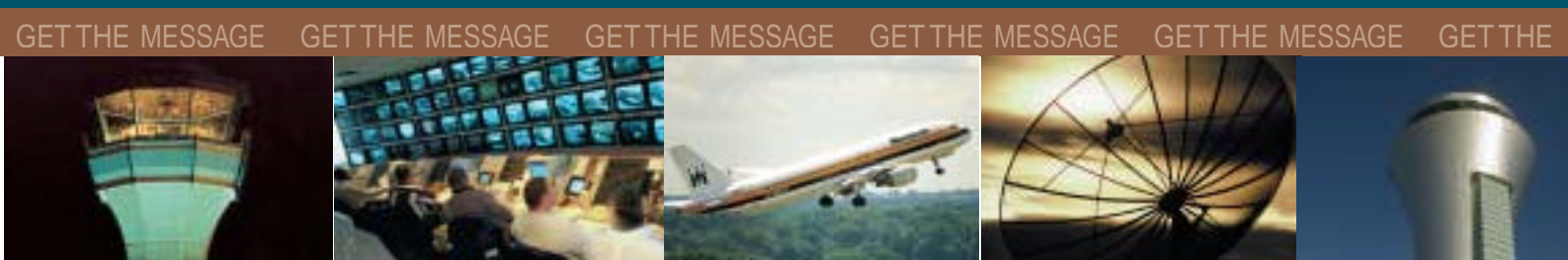
APECUS Technologies Pte Ltd

1090 Lower Delta Road #07-08/09 Singapore 169201

Tel: (65) 6273 9100 Fax: (65) 6273 8113

Email: sales@apecus.com

Web: www.apecus.com



Conformance

The AMHSGATE is based upon the proven Copperchase AFTN products, tested and proven ANNEX 10 V II compliance. The combination of Microsoft Exchange with the X.400 Connector and the BOLDON JAMES OSI Communication Stack for ATN applications has been extensively tested for interoperability and standards conformance by the following organizations:

Standards Consortium	Standard	ICAO – The ATN SARPs
U.S. Government Open Systems Interconnection Profiles (GOSIP) 2.0	MHS 1984	SubVolume 1 Introduction and System Level Requirements
U.S. GOSIP	MHS 1988	SubVolume 3 Ground/Ground Applications
Open Systems Testing Consortium (OSTC)—European standard	MHS 1988	SubVolume 4 Upper Layer Communications Service (ULCS)
United Kingdom GOSIP	MHS 1988	SubVolume 5 Internet Communications Service (ICS)
		Annex 10 Volume 2 AFTN Messages

NCC Transport Class 4 conformance for the BOLDON JAMES ISO 8073 Transport, as defined by UK GOSIP V4 specifications.

The AMHSGATE comprises of 5 major components:-

- MS Exchange 2003 server – COTS MS product
- MS Exchange x.400 MTA server - COTS MS product
- OSI TP4/CLNS transport stack – COTS BOLDON JAMES product
- Exchange ATN Gateway module
- Copperchase (or other) AFTN gateway module.

