

Objectives

To provide participants with an overview on current and future air-ground data link communications technologies in civil aviation, and the applications of air-ground data links for delivery of flight information services. The experience of the Civil Aviation Department (CAD) Hong Kong in the successful implementation of Data Link Flight Information Services (DFIS) including Digital - Automatic Terminal Information Service (D-ATIS), Pre-Departure Clearance (PDC), etc will be discussed and shared with participants

Duration

Two days

Target Participants

Technical and operational personnel from civil aviation authorities, airport authorities, airlines and aviation data link service providers, etc. involved in the planning, implementation and operations of DFIS

Pre-requisite

Literacy in English and have fundamental knowledge of data communications



Introduction to Data Link Flight Information Services

Contents

- **Introduction to the existing and future air-ground data link communications technologies**
 - Aircraft Communications Addressing and Reporting System (ACARS)
 - VHF Data Link (VDL)
 - HF Data Link
 - Mode S Data Link
- **Overview and operational/safety benefits of DFIS**
 - Broadcast of Automatic Terminal Information Service via data link (D-ATIS)
 - Broadcast of regular meteorological information for aircraft in flight via data link (D-VOLMET)
 - Delivery of Pre-departure Clearance messages via data link (PDC)
- **Dissemination of airfield and weather information via ATIS and regular meteorological information (VOLMET)**
 - Voice broadcast of ATIS and VOLMET via very high frequency (VHF) and/or high frequency (HF)
 - Overview of CAD D-ATIS/D-VOLMET System
 - D-ATIS/D-VOLMET message format and sample messages
 - D-ATIS request/delivery process
 - CAD experience in D-ATIS/D-VOLMET trials/operations
- **Delivery of Pre-departure Clearance messages via data link**
 - Departure clearance via VHF voice
 - Overview of the CAD PDC System
 - PDC message format and sample messages
 - CAD experience in PDC trials/operations
- **Downlink of Aircraft Meteorological Report**
 - Aircraft Meteorological Data Relay (AMDAR) Programme
 - CAD experience in AMDAR trials/operations
- **Aircraft equipment requirements**
- **Future DFIS**