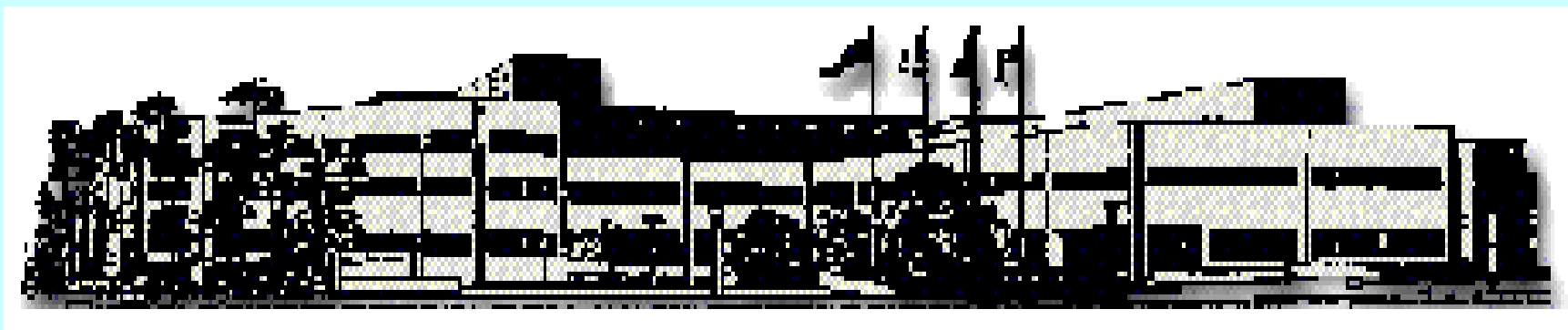




~ ATN Seminar – Context Management ~
Chiang Mai, Thailand
December 2001



Federal Aviation Administration (FAA) William J. Hughes Technical Center (WJHTC)

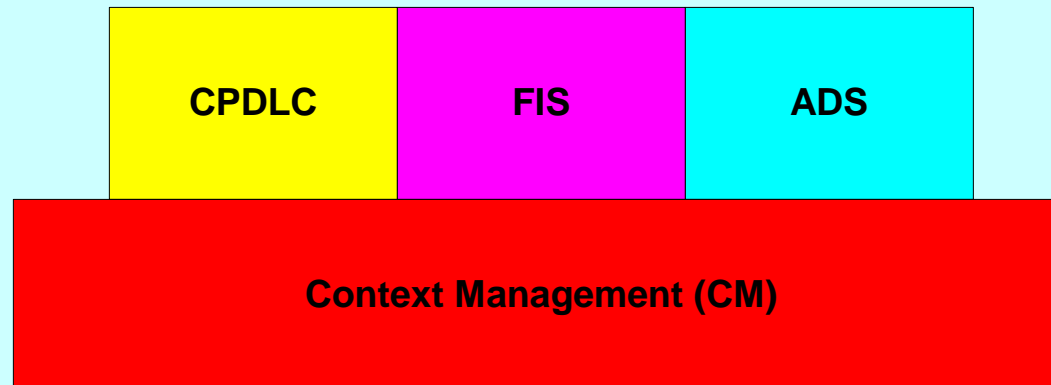


Context Management Overview

*Tom McParland, BCI
(US FAA)*



Context Management



- Context Management is a support application for other Air-Ground Applications



Context Management

- Context Management (CM) is essentially a directory (name) service
 - CM operation compares conceptually to the process of determining IP addresses from URLs on the Word Wide Web
- Under Edition 3 of the SARPs, CM will play a role in securing air-ground communications

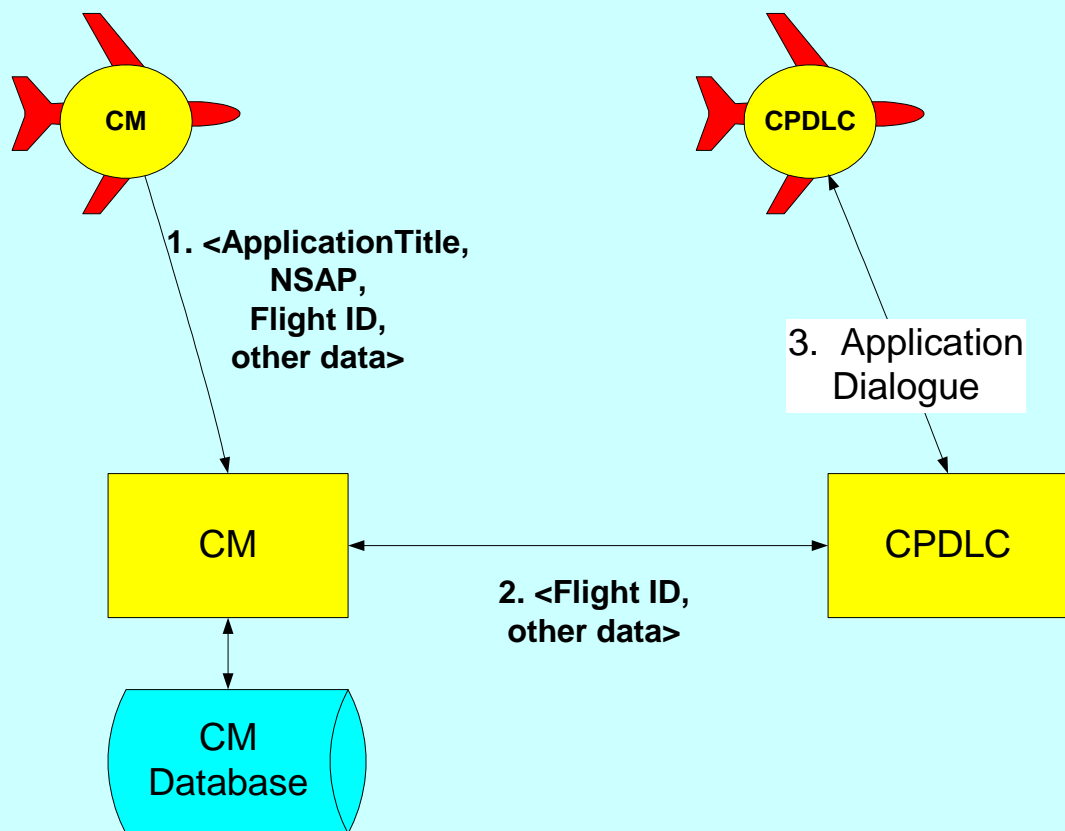


Context Management Process

- Context Management (CM) for Ground-Initiated Applications
 1. Aircraft "logs-in" to CM creating an entry in the CM database with:
<Application Title, NSAP address, Flight ID, other "matching" data>
 2. A ground-based air-ground application retrieves the CM entry using for example:
<Flight ID, other "matching" data>
 3. When conditions are appropriate, the ground-based air-ground application initiates a connection to establish an application dialogue with the aircraft



Context Management (Ground-Initiated Application)



- Context Management (CM) and Controller Pilot Data Link Communication (CPDLC)



Context Management Process

- Context Management (CM) for Air-Initiated Applications
 1. Entries are pre-stored in the CM database for ground-based air-ground applications
 2. Aircraft "logs-on" to CM (for example with the Application Title of the air-initiated application) and retrieves the pre-stored entry in the log-on response:
<Application Title, NSAP address, other "matching" data>
 3. When conditions are appropriate, the aircraft-based air-ground application initiates a connection to establish an application dialogue with the aircraft



Context Management Summary



- Context Management is a directory service to obtain NSAP addresses for Application Titles
- Additional CM services (Forward, Update) support transition across various ATC domains
- In the Asia and Pacific Region, administrations will have to establish individual/common CM service to support ATSC Air-Ground applications