

# Unified User Experience for App Based EFB

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# Goal for This Call

Evaluate updating/extending existing EFB standards to simplify the user experience for tablet based EFB apps.

# User Experience Today

# EFB



JeppFD-Pro



myMobile365



WSI Pilotbrief



Agent



SWA Apps



SWALife



CrewBuddy



CrewWeb



CrewBid



SWAPA



SWA Pwd Mgr



SWALife Web



ETHOS



Southwest



FlightBoard

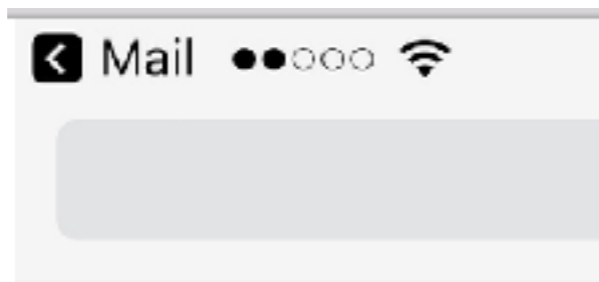


Jepp Trip Kit



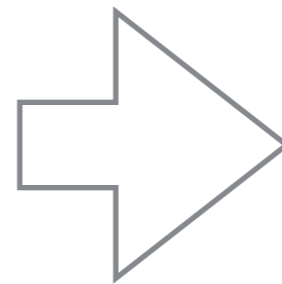
# Going back...

- 4 finger swipe
- Double tap home button, scroll between apps
- iOS 'back to' in upper left



Ideal Cross App UX

# Planning...

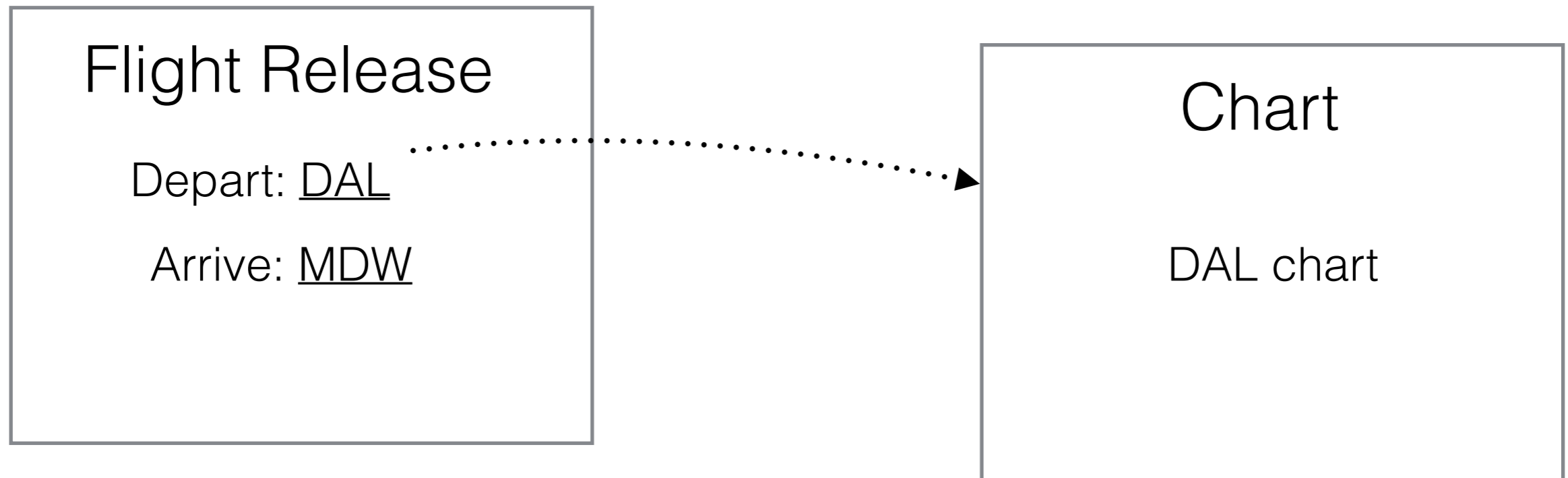


to Station Information

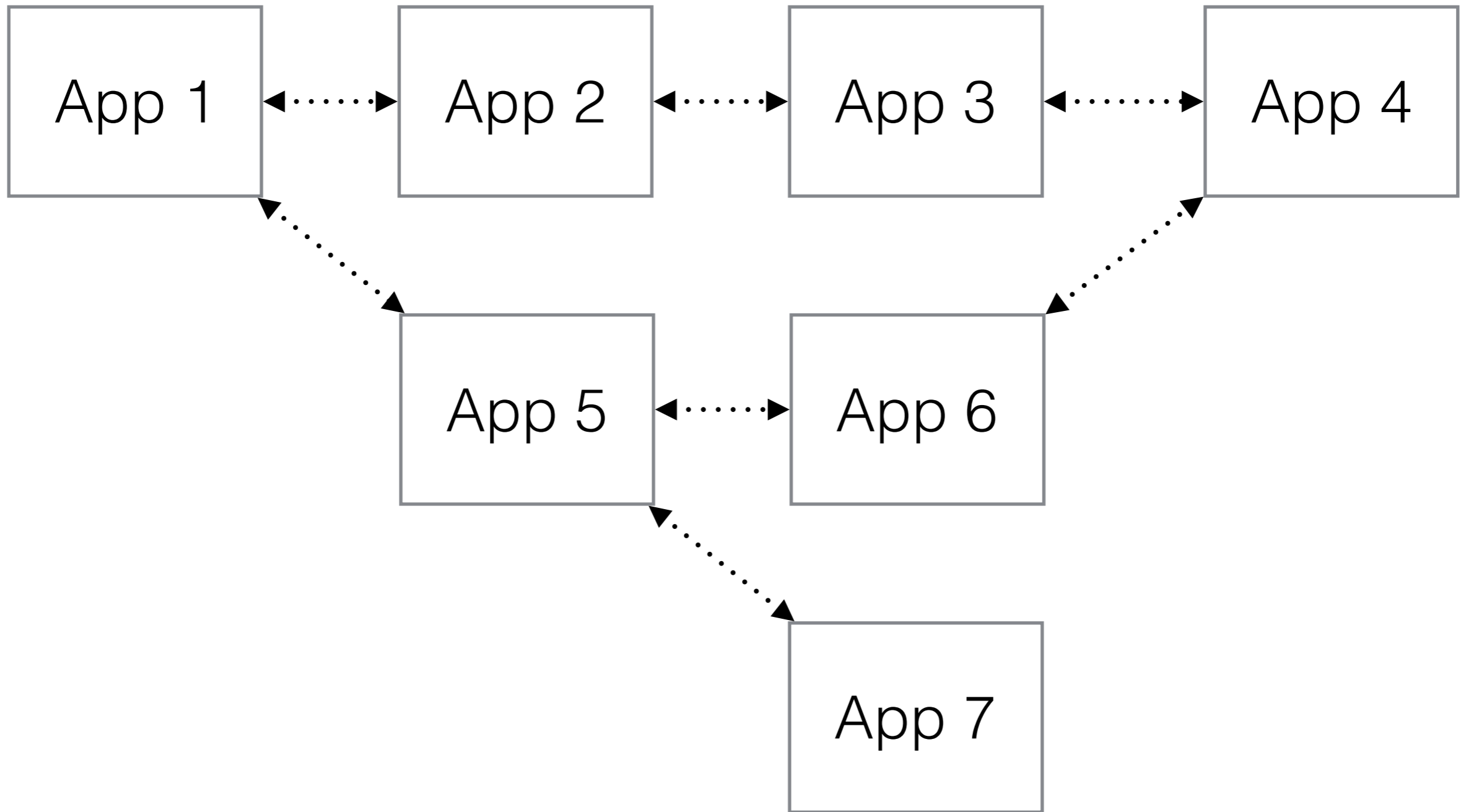




# App to App Flow



# Long Workflows



# Multi-App Workflow Ex

Appraisal

Inventory

CRM

Finance

# App Suite



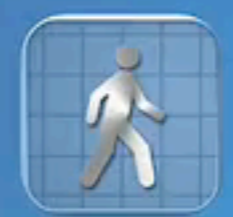
Demo theGRID



Demo prope...



Demo summary



Demo tour



Demo stats



Demo RFP



Demo resume



Demo query



Demo broker

# Simple UX

- Consistent inter app navigation scheme for users
- Blends together multiple apps into a single workflow
- Provides for single data entry with data shared across apps

# 840 Application Control Interface (ACI)

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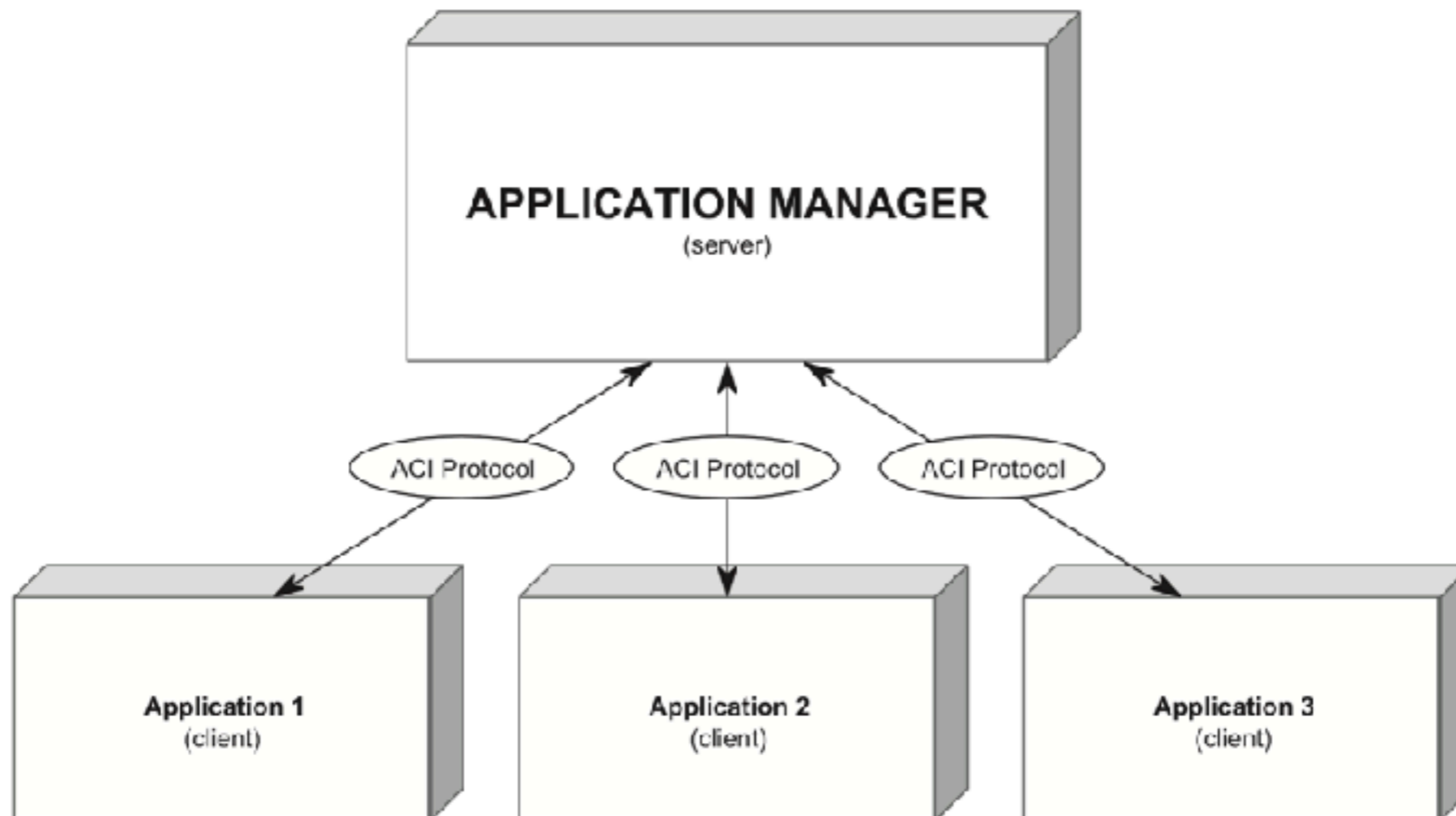


Figure 1-2 – ACI Architecture

# 840 Application Control Interface (ACI)

## **5.0 ACI PROTOCOL**

### **5.1 ACI Link Layer: Network Sockets and TCP/IP**

The ACI Link Layer is implemented using network sockets and the TCP/IP protocols. Used throughout the computer industry, TCP/IP connections enable lossless, stream-based bidirectional inter-process communication between the ACC and the application.



# 840 ACI

- Client/server TCP/IP communication model
  - Per 1.5 “services are system capabilities provided using a network-based protocol”
- Data interchange, not user interface flow
- Issues with always on server/listeners & modern mobile operating systems

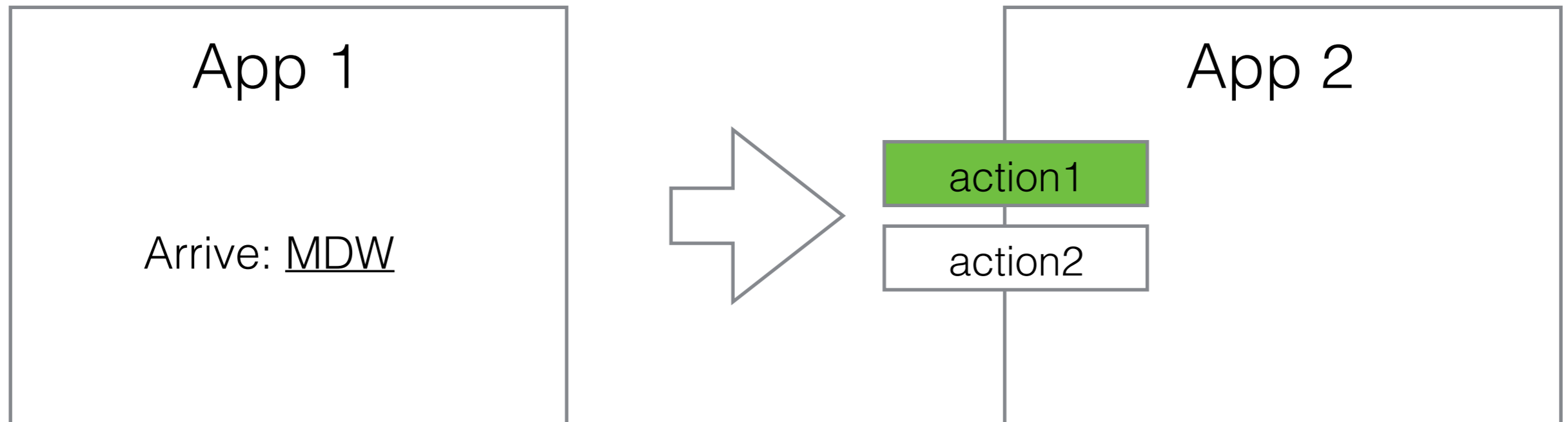
**Table 4-1 – Application Intent Types**

<b>Application Intent</b>	<b>Description</b>	<b>Details</b>
application/aeec.840-1.procedure	terminal procedure viewer	6.1.1
application/aeec.840-1.map	enroute chart viewer	6.1.2
application/aeec.840-1.document	document viewer	6.1.3
application/aeec.840-1.manual	aircraft manual viewer	6.1.4
application/aeec.840-1.mel	minimum equipment list	6.1.5
application/aeec.840-1.checklist	checklist application	6.1.6
application/aeec.840-1.video	surveillance video application	6.1.7
application/aeec.840-1.weightbalance	weight and balance	6.1.8
application/aeec.840-1.weather	weather display	6.1.9
application/aeec.840-1.notam	notice to airmen viewer	6.1.10
application/aeec.840-1.logbook	maintenance logging utility	6.1.11
application/aeec.840-1.groundtraffic	on ground traffic display	6.1.12
application/aeec.840-1.airtraffic	in air traffic display	6.1.12
application/aeec.840-1.merging	merging and spacing capability	6.1.12
application/aeec.840-1.intrail	in-trail procedures function	6.1.12
application/aeec.840-1.conflict	runway conflict detection capability	6.1.12
application/aeec.840-1.wake	wake vortex hazard detection	6.1.12
application/aeec.840-1.flightfolder	electronic flight folder capability	6.1.13
application/aeec.840-1.terrain	terrain display	6.1.14
application/aeec.840-1.performance	aircraft performance application	6.1.15
application/aeec.840-1.taxiposition	taxi positional awareness	6.1.16
application/aeec.840-1.faultfinder	fault finder	6.1.17
application/aeec.840-1.eforms	electronic forms	6.1.18

# Sample Approach

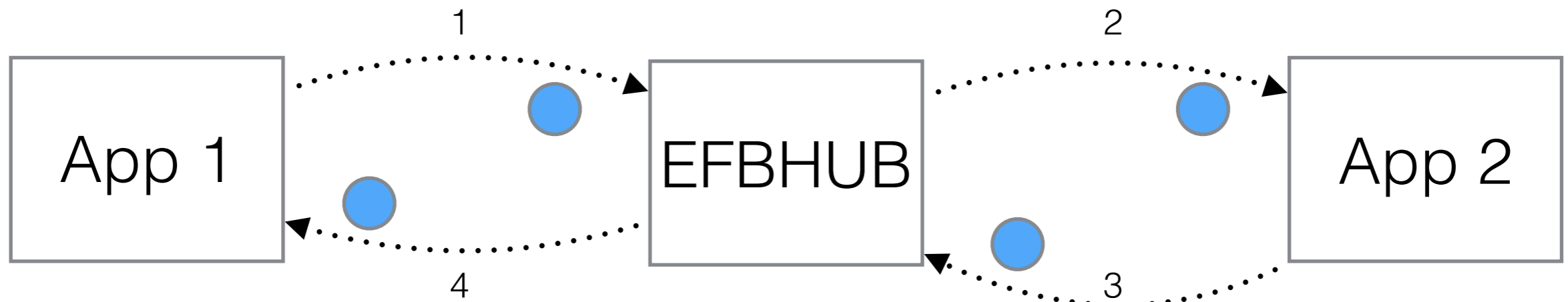
## URL Handlers

# Hard Coded Handlers



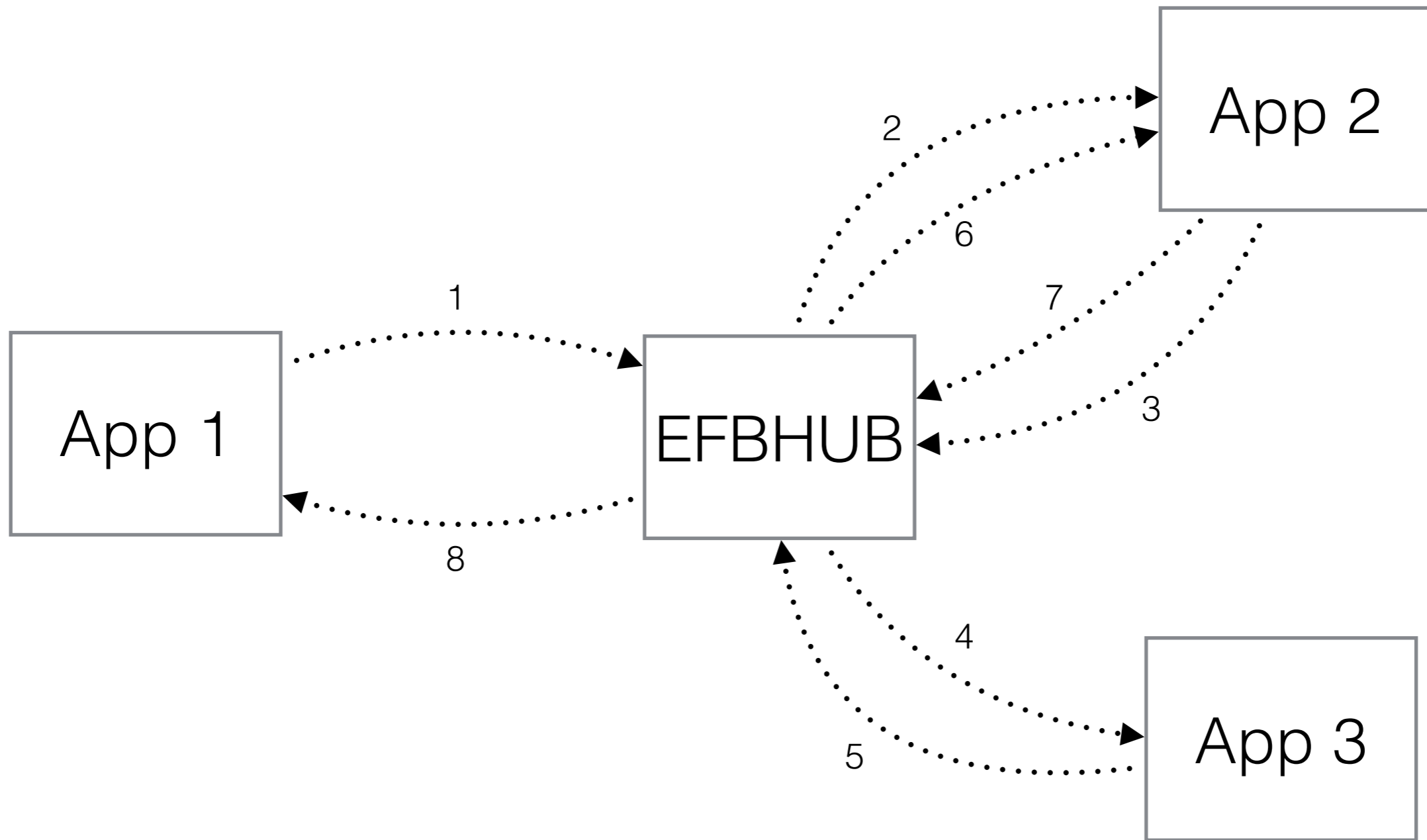
vendorABC-appXYZ-action123://datahere

# Two App Flow



 User Session Data

# Multi-app Flow



# Key Question

Does updating/extending existing EFB standards to simplify the user experience for tablet based EFB apps make sense?