

ACI ACRIS Working Group

ACRIS Update

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BIT Committee

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Agenda

- Short introduction: what is ACRIS all about ?
- Update from last ACRIS Meetings in OSL (May '14) and FRA (Sep '14)
 - Status of Passenger and Baggage Conformance Services
 - Status of A-CDM CSA Services
 - Status of ACRIS Semantic Model Community of Practice
 - New Projects
 - Asset Management
 - Seamless Travel
- Meeting in Newark, New-Jersey on April 21&22

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ACI ACRIS: Efficiency and Innovation through recommended Web Services

What would the world look like without ...



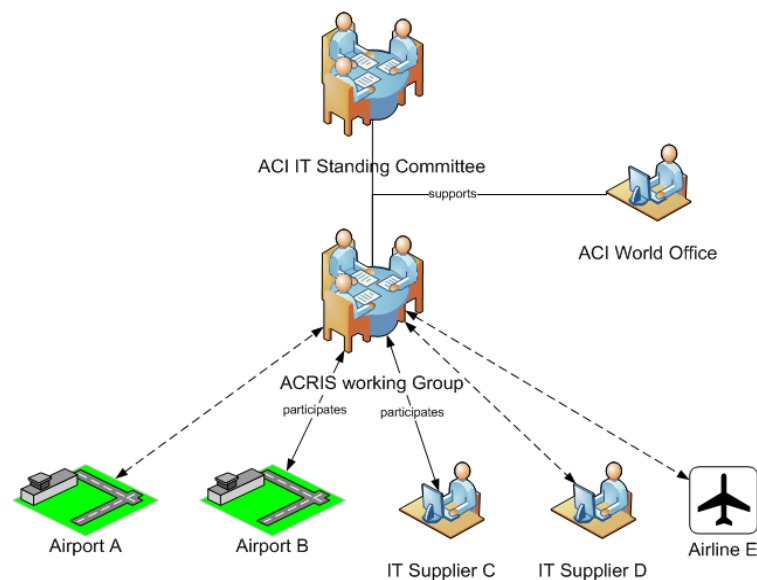
Electric power supply without standardized
plugs and sockets is unthinkable !

And now imagine ...

**... what would happen if we can connect the IT solutions of our
business partners as easy as sticking a plug into a socket !**

ACI ACRIS: Plug and Socket for your business

- ACRIS (Aviation Community Recommended Information Services) is a working group of the ACI World IT Standing Committee
- ACRIS was established in 2009
- Open for all interested stakeholders in the aviation industry

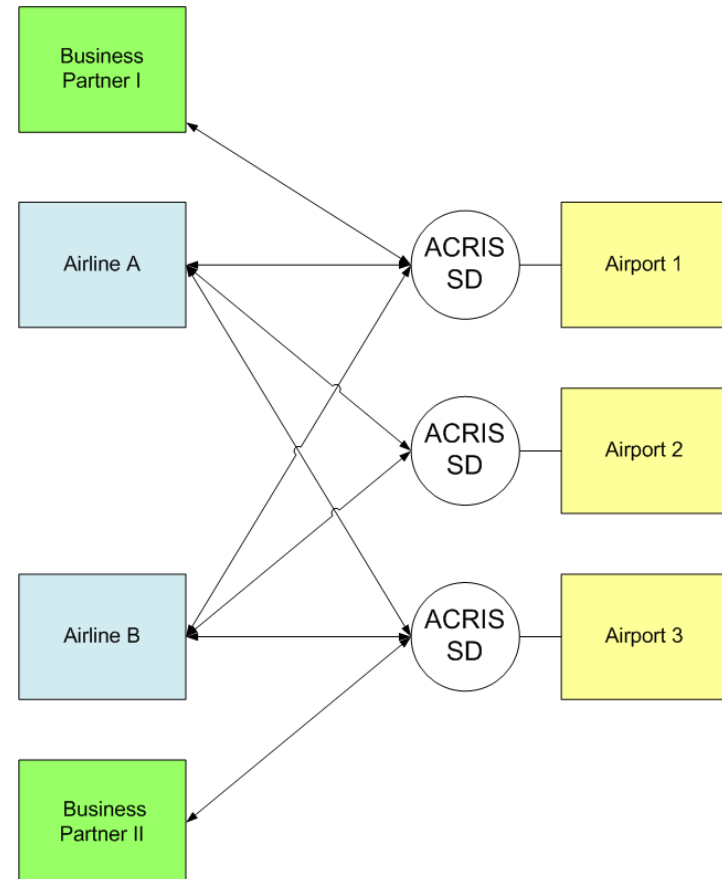
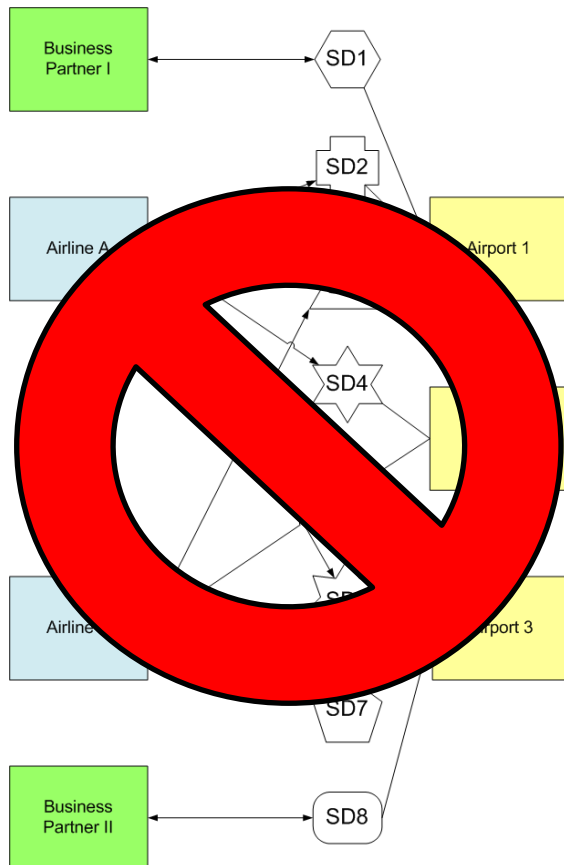




ACI ACRIS in a nutshell

- **Vision:** “The consistent adoption of **Service Oriented Architecture (SOA) principles** across the world’s Airport Community in a coordinated effort”.
- **Mission:** “To deliver recommendations, requirements and **technical specifications** to implement the ACI ACRIS Vision”.
- **Main objective:** “Define a framework for airports, airlines, partners and suppliers to facilitate **cross-company process integration scenarios (B2B)**”.
- Doing so ACRIS uses **existing standards** (e.g. AIDX, ...) and strongly collaborates with **community partners** as IATA, Eurocontrol, ...
- Methodically ACRIS follows a model-driven approach supported by the **ACRIS Semantic Model Community of Practice**

ACRIS business drivers



ACRIS deliverables

Major deliverable of the ACRIS WG is the Recommended Practice (RP502A10) approved by ACI World. RP covers for example ...

- the management of ACRIS Service descriptions,
- the roles and responsibilities of Service Consumers and Providers,
- best practices for bilateral service agreements.

Standardized WebService descriptions (approved by the WAITSC) are attached to the RP as annex.

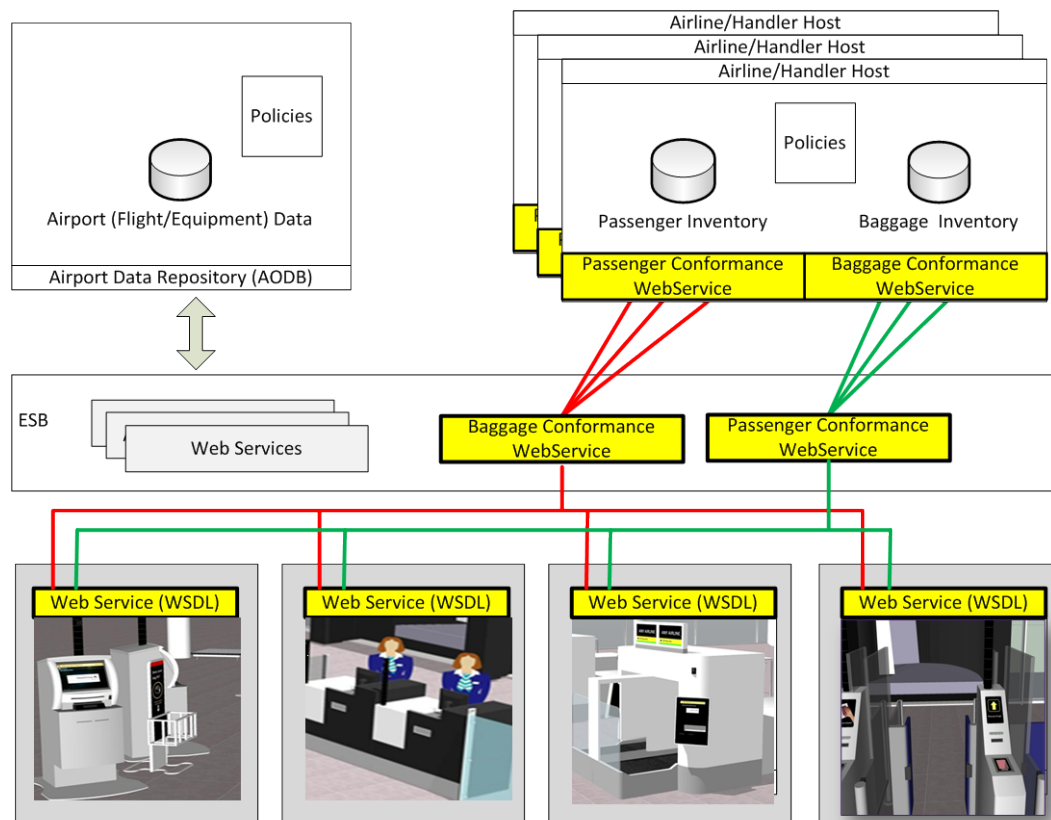
ACRIS projects

- The development of WebService Descriptions (XSD/WSDL) for B2B scenarios is organized in projects. For example:
 - Baggage and Passenger Conformance WebServices (V 2.0 available)
 - A-CDM Common Situational Awareness WebServices (V 1.0 available)
 - Asset Management WebServices (work ongoing)
 - Seamless Travel WebServices (work ongoing)

... others to come !

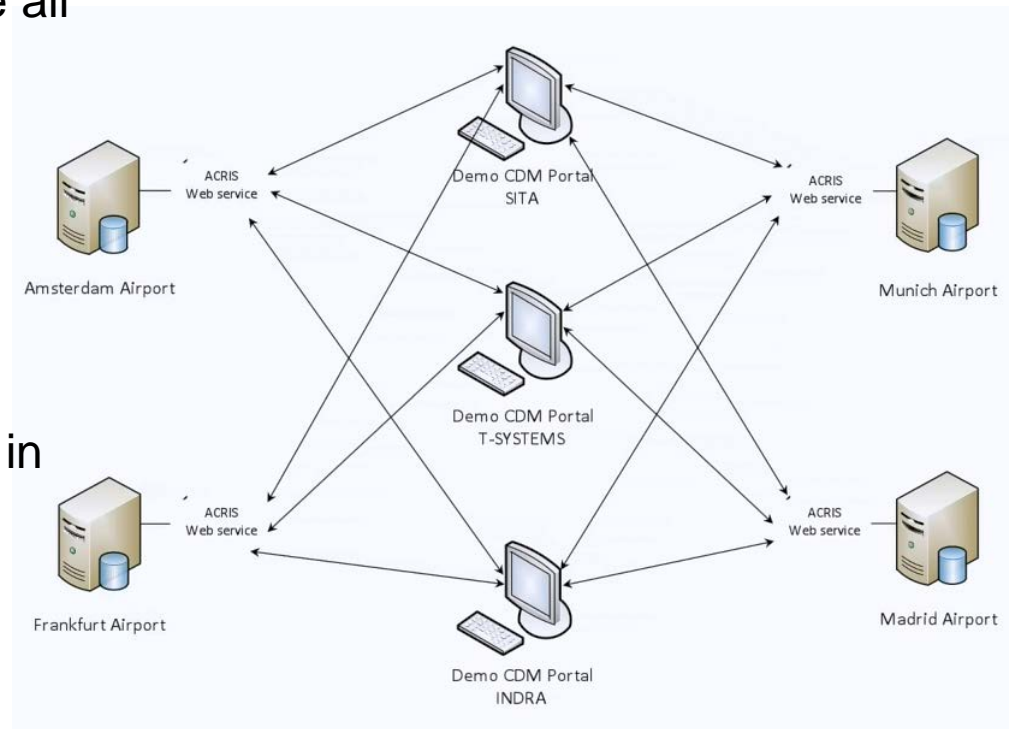
ACRIS project: Baggage and Passenger Conformance

- Cooperation with IATA CUWS
- Working with ACRIS Semantic Model framework
- Business Req. Doc. accepted by IATA and ACI in Sep '13
- IATA RP1741 approved Nov '13 by JPSC → Web Services recommended for Bag Drop to airline DCS integration
- WSDL released Mar '14 by IATA and ACI



ACRIS project: A-CDM Common Situational Awareness

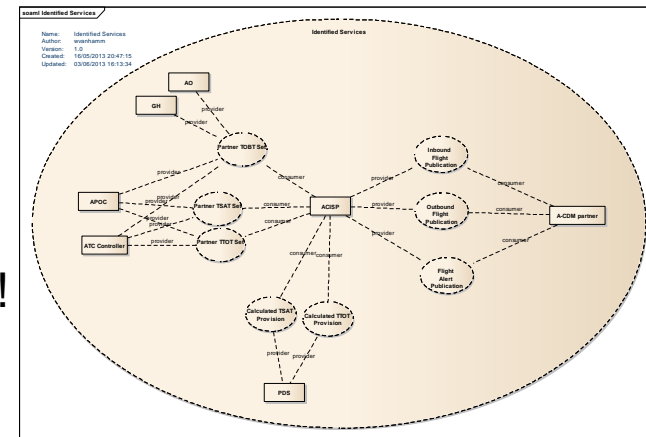
- Number of A-CDM initiatives increase all over the world
(e.g. only in Europe min. 24 airports)
- → Number of Common Situational Awareness (CSA) Portals increase
→ Problem for airlines et al
- Successful ACRIS PoC in Q1 '12
- PoC version 1.0 of WebService used in OSL operationally !
- Version 2.0 under development in cooperation with SESAR





ACRIS A-CDM CSA Operational Services (AACO)

- Background:
 - Successful ACRIS PoC in Q1 '12
 - Cooperation with EuroControl in SESAR
- State-of-play:
 - PoC version (V1.0) used in OSL operationally!
 - V2.0 under development in cooperation with SESAR (SES ATM Research Project)
 - Logical definition of Web Services exist
 - XML Payload based on FIXM 2.0 exist (by E'CTRL)
 - XML Payload based on latest AIDX to be developed (by ACRIS WG)
 - Refactoring of Services discussed and decided in FRA on 23rd of September
 - WSDL, XSD (based on AIDX), and implementation guide to be developed by Lockheed Martin until end of 2014.



ACRIS Semantic Model Community of Practice

- Background:
 - Part of ACRIS since 2010
 - ACRIS promotes a model driven architecture and development approach, supported by the ACRIS Semantic Model
 - The ACRIS Semantic Model Community of Practice (ASMCoP) maintains this model
- State-of-play:
 - New repository (SharePoint server, sponsored by LHR) providing all parts and elements of the ACRIS Semantic Model was introduced by the ASMCoP Chairman in FRA on Sep 23rd.
 - ACRIS WG decided to use this platform on short notice for all ACRIS documents, meeting minutes, presentations, ... until ACI World will provide a collaboration platform for all committees and working groups.

New projects

- Asset Management

- Background:

- Project idea by LHR and Siemens
 - WebServices for the management of facility assets and technical assets

- State-of-play:

- First draft of project definition discussed in FRA.
 - Further need for focusing in scope → to be discussed in the next meeting

- Seamless Travel

- Background:

- Project idea by MUC
 - WebServices for the provisioning of services to passengers (e.g. via mobile apps) over the whole passenger process (B2C scenario !!!)

- State-of-play:

- On hold: MUC to reviews the whole concept. ACRIS relevance to be discussed in the next ACRIS meeting

Even good things can get better – ACRIS reloaded !

- The ACRIS working group performed some **very successful projects**:
 - ACRIS PoC in the area of A-CDM Common Situational Awareness
 - Project on “Baggage and Passenger Conformance Services” in collaboration with IATA
 - Project on “A-CDM CSA Operational WebService (AACO)” in collaboration with SESAR Fast Track 10
- Beside the excellent deliverables of these projects, the ACRIS WG gained some very **fruitful experience** that should be used **to make ACRIS more efficient and successful**.
- Therefore the following slides present **fields of improvement** based on an analysis of what we have done so far and where we are today.

Next ACRIS meeting in Newark on April 21&22



**Please, join us for the
next meeting taking
place in Newark, New-
Jersey USA on April
21&22.**

**For details, contact Serge
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voice
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THANK YOU!