

CUSS 2

Informative Session

Technical Deep-Dive



Competition Law Guidelines

Do not discuss:

- Any element of prices, including fares or service charges
- Commissions
- Allocations of customers or markets
- Marketing plans, commercial terms or any other strategic decision
- Group boycotts
- Your relations with agents, airlines, system providers or other third parties
- Any other issue aimed at influencing the independent business decisions of competitors

Unauthorized recording of the meeting is prohibited. This includes but is not limited to unauthorized audio or video recordings and the use of AI tools (such as transcription software, notetakers, bots, or voice/data analysis tools)

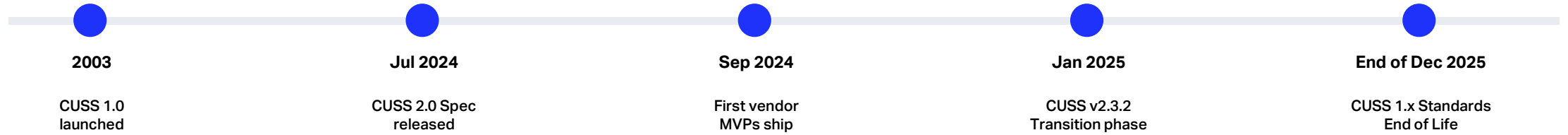
Agenda – CUSS 2

Technical Deep-Dive

- History
- Short Comparison between CUSS 1 and CUSS 2
- What is ready and what is expected to come next
- Integration and Certification process
- Release Cycles
- Change request process
- CUSS 2 Toolkit structure
- Q&As



History



Multiple Technologies End-of-Life

Multiple technologies are being discontinued. Shrinking talent pool, proprietary licensing costs.



Compliance / Cyber Security Gaps

CUSS 1.x predates PCI DSS, GDPR, and modern biometric standards. Security was bolted on, not built in.



CUSS 2 Standards

CUSS 2 Standards have been designed to support emerging technology as industry needs evolve

Short Comparison between CUSS 1 and CUSS 2

Technologies

CUSS 2 replaces old technologies such as Web-Browser plug-ins and outdated Java versions with new ones.

Communication Protocols

CUSS 1 uses CORBA and binary messaging; CUSS 2 adopts JSON, WebSockets, and RESTful APIs for simplicity.

Modern Web Application Model

CUSS 2 employs a web application model with asynchronous hardware interaction for scalability and resilience.

Security Models

CUSS 1 trusts internal environment; CUSS 2 enforces encryption, authentication, and authorization for security.

Expanded Device Support

CUSS 2 supports a wide range of self-service devices including mobile and handheld applications beyond fixed kiosks.

Enhanced Security Standards

CUSS 2 aligns with PCI DSS for secure payment processing and ensures auditable, secure data exchanges.

Improved Regulatory Compliance

Supports GDPR and other regulations with improved certification for consistent deployment across vendors and airports.

Operational Risk Reduction

Enhancements in device support and security reduce operational risks and increase passenger trust.

What is ready and what is expected to come next

What is ready

- ✓ CUSS2 Specification located within [CUSS2 toolkit](#)
 - Human readable document explaining the CUSS2 API and behavior
- ✓ CUSS2 Development Guide located within [CUSS2 toolkit](#)
 - give application/platform developers hints and expectations for writing CUSS2 application/platform
- ✓ CUSS2 YAML located within [CUSS2 toolkit](#)
 - coded definition of the API between a CUSS2 platform and a CUSS2 application
 - can be used by various autogenerating tools to create object classes to be used

What is expected to come in the next release

- CUSS2 test plan chapter in the Development Guide and test scripts
 - DG chapter stating the intent of the tests that will be needed to certify an app against a CUSS2 platform.
 - Scripts: explicit list of tests that should be executed by an app. Human readable, not computer script. This does not test business functionality of the app, but rather the interaction between the app and the platform
- CUSS2 sandbox: it will be provided within [CUSS2 toolkit](#) to allow application developers to try their application against a baseline CUSS2 platform
- Payment interface definitions
- Biometrics interface definitions

Integration and Certification Process

Ad Hoc to Unified

- ✓ CUSS 2 Certification is now mandatory for all Applications and Vendor Combination
 - Output is OAuth credentials
 - No certification = No ability to run on CUSS Devices
- ✓ Tools (sandbox/scripts) will be available through IATA allow for pre-certification validation by Application Vendors/Platform Vendors – validation is required of applications before entering certification
 - Speeds up the certification process
 - Less issue correction
 - Conformity
 - Standardization
 - Repeatability
- ✓ Integration Process in production driven by CUSS Vendor and Device Owner
 - Expect differences in approach, details needed and timing for CUSS 2 availability at each station
- ✓ CUSS 2 Certification provides mechanism for platform vendors to control access to components on production devices
 - Positive identification of an application via the OAuth "secret"
 - Platform controls access to components based on what was certified -> no more unexpected device usage

Integration and Certification Process

Process (Applications and Platforms)

- ✓ Compliance test vs Specification, required technologies, operations
 - State changes/event handling and reaction/application logging
 - Happy path and error path flows
 - Certification does not test application business logics
- ✓ Vendor Integration
 - Inputs and outputs, OAuth messaging and operation, backend connections and reliability
 - No proprietary code or operation – apps and platform must work to the Specification
 - Platforms may use partnerships with stations to verify Certified Application operation

Integration and Certification Process

Recertification

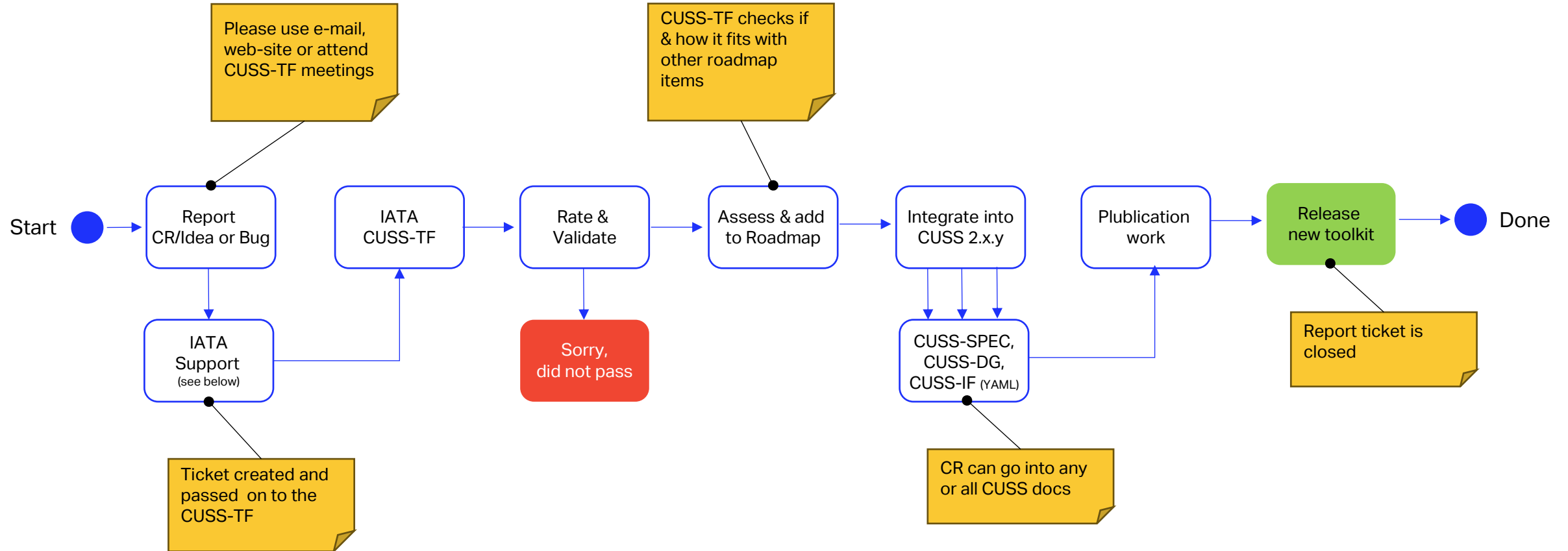
- ✓ CUSS 2 Certification Process reduces the need for re-entry to vendor recertification
 - Passenger logic and handling out of scope
 - Visual representations in terms of fonts, colors, texts, and layouts are out of scope
 - Accessibility stays in scope but only for API/device interactions
 - ADA adherence responsibility has shifted from platforms to applications
 - Applications do whatever is required by local laws, using simplified interactions with platforms
- ✓ Usage of new devices = Recertification
- ✓ Changes to the technology stack in application code = Recertification
 - Moving from JS to Python or portable C# etc. Technology can cause adverse behaviors
 - Dependencies between OS, platform, and applications
 - CUSS 2 is BYOT (Bring your own tech-> embedded, portable, nothing to install by the vendor)
 - The best approach is to ask your CUSS platform provider if recertification is necessary
- ✓ Major Changes to CUSS Specification versions and capability will force applications to recertify as they will need to meet the updated Specification
 - Does not apply to minor builds
 - Applies to major architectural and feature changes (eg moving from WSS to Rest)
- ✓ See IATA CUSS 2 Specification Section 5 for more detail

Release Cycles

Date	Version SPEC	Version DG	Version IF	Version IG	Description of Changes or Modifications	Comments
JAN 1st	none	none	none	none		Version release
FEB 1st	Start working on CRs & fixes for the next release	No further changes accepted			We had no release in January	
MAR 1st						
APR 1st						
MAY 1st	none	none	none	none	none	Release preparation (CUSS TF)
JUN 1st	none	none	none	none	none	Release preparation (IATA)
JUL 1st	2.4.0	2.4.0 (reduced)	2.4.0	2.4.0		Version release
AUG 1st					The current release that's published shortly	
SEP 1st						
OCT 1st						
NOV 1st	none	none	none	none	none	Release preparation (CUSS TF)
DEC 1st	none	none	none	none	none	Release preparation (IATA)

SPEC = Specification, **DG** = Development Guide, **IF** = Interface Definition (YAML), **IG** = Implementation Guide

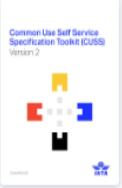
Change Request Process



WEB: <https://www.iata.org/en/contact-support/>

MAIL: cuss@iata.org

CUSS 2 Current Toolkit structure



Common Use Self Service
Specification Toolkit (CUSS)
Version 2 Update 4

IATA

[Expand all](#) | [Collapse all](#)

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Toolbox

-  [IATA CUSS2 API V2.4.0](#)
-  [IATA CUSS V2 API Definition](#)
-  [IATA CUSS 2.4.0 Certification Document Template](#)
-  [IATA CUSS 2.4.0 How To Document](#)
-  [IATA CUSS 2.4.0 Development Guide](#)
-  [IATA CUSS 2.4.0 Implementation Guide](#)



[IATA - Common Use Self
Service \(CUSS\) Toolkit](#)

Q&A

For further information
supporting the CUSS 2
migration:

cuss@iata.org



THANK YOU

