



Summary of the Eighty-Ninth Meeting
Special Committee 224 Plenary
Airport Security Access Control Systems

The eighty-seventh meeting of SC-224 was held virtually on March 23, 2023.

Attendees included:

Christer Wilkinson (Co-Chair)	AECOM System Solutions
Art Kosatka (Secretary)	TranSecure Inc.
Djhanice Neric (GAR)	FAA
Karan Hofmann	RTCA, Inc.
Jose Chavez	TSA
Suzanne Guzik	CTI Consulting
Walter Hamilton	IDTP
John Peace	FAA
Lars Suneborn	IDTP
Bill Trussell	FAA
Regrets:	
Jonathan Branker	FAA
Kristina Does	TranSecure, Inc.
David McGhee	R&B
Alan Paterno	TSA
Adam Shane	Burns Group

SC-224 – Meeting No. 89
(March 23, 2023 Meeting)

1. Welcome and Administrative Remarks:

Ms. Hofmann opened the meeting with the reading of the reminders for Anti-Trust Requirement, RTCA Proprietary Policy and Membership Policy and relevant exemptions, as well as RTCA membership requirements. Dr. Wilkinson presented the agenda for today’s meeting.

2. Approval of Previous Meeting Summary:

The Summary for the Plenary #88 (January 26, 2023) meeting was reviewed and approved.

3. TSA Report:

Mr. Chavez provided a brief report on status of TSA activity, noting the ongoing nature of multiple cybersecurity initiatives and a recent DHS/TSA release specifically pointing to four expanded cyber areas for airports and airlines. Mr. Chavez was constrained from releasing any details on how to characterize any resulting requirements that may be imposed on airports, but industry observers are concerned that some will be imposed as inconsistent specific amendments to each Airport Security Program (ASP).

4. Safe Skies Reports:

Dr. Wilkinson reported that the SafeSkies CBP Guidelines update is still in progress with 3-4 months still to go. Ms. Guzik reported that the SafeSkies Urban Mobility project is reviewing final comments and expects final approval shortly.

5. Update on Development of DO-230M:

Mr. Suneborn, Access Control section, related some history 10 years ago when the ISC West had made a “What May Be Next” industry presentation: a mobile device was used as a reader, reading a QR code or hidden NFC tag as a location identifier and a Mobile device as a scanner (Reader). The Mobile Device represents the individual requesting access. The Mobile device transmits the location and device ID to a server with access metadata and an access table for granting or denying access; it simply sends a command to an IP enabled I/O device. A Proof-of-Concept system was created and functioned as expected. Mr. Suneborn suggested this approach may be more suitable for basic office environments, although short mentions could be included in the next revision.

TSA is presently revisiting the TWIC Qualified Technology List, QTL. The initial QTL from 15 years ago was dormant, but now there is a move to reactivate it, with 6 companies currently on board. TSA will post a QTL page on their WEB site, possibly for a June/July timeline.

TSA effort is considering expanding the use of the TWIC (Transportation Worker Identity Credential) beyond seaports to also cover Land and Air Transport. As has been previously noted and strongly emphasized, TWIC is an *identification* medium, *not* an access medium; this is typically misunderstood and is subject to the often very different laws, regulations, policies and operational practices of local and international environments.

Mr. Suneborn is also looking at guidance to phase out old card technologies.

Mr. Hamilton’s comments for the biometrics section were presented by Dr. Wilkinson, who outlined the 3 key points, which Mr. Hamilton will address at the next plenary.

- The biometric standards sub-section will be updated to reflect results of the recently concluded semi-annual ISO SC-37 Biometric Standards meetings.
 - Status: He had asked one of his colleagues that serves on the SC-37 committee to provide updates to the status of each listed standard and any new standard efforts that may have commenced.

- Document new trends in biometric technology including the emerging use of access control cards with embedded fingerprint sensors at airports for two-factor authentication in one presentation.
 - Status: He is attending a technology symposium in New Orleans April 16-18 to see the fingerprint-enabled access control card technology firsthand and interview an airport that plans to use the technology.
- Document new trends in self-service fingerprint collection when on-boarding airport worker applicants through the use of kiosks that incorporate ten-fingerprint collection capabilities.
 - Status: This will also be discussed and demonstrated at the upcoming technology symposium in New Orleans in April.

Mr. Shane’s comments for the video section were also presented by Dr. Wilkinson; they are also available on the RTCA web site. They are summarized here, with appropriate emphasis on sticking to the primary theme of access control.

Section 6 is being updated by:

- Removing content related to science of video capture
- Adding new content on features and capabilities that pertain to Airport Security Access Control

Why restructure?

- Removing bulky discussions about the science of sensor technology
- New structure continues with the last update’s focus on system functionality rather than “nuts and bolts” which can be found in other documents
- New structure intends to shorten the section overall – perhaps 20 pages.

What is being added?

- Enhanced discussion around cloud storage
- New topics such as system/device health monitoring, and associated technologies
- Addition of new areas in Video Analytics
- Enhanced discussion around cybersecurity for cameras and VMS
- Keeping in mind that the focus is on applicability to Airport Security Access Control – this limits the discussion and avoids certain features that apply to retail or operational use of video.

What is being removed?

- Limiting depth of discussion around
 - Light spectrum and history of use – keeping basics of IR vs. Visible sensors
 - History of recognition science – keeping basics of detection/ recognition/ classification/identification
- Continuing to remove more detail about analog video
 - Will keep and perhaps expand the discussion around upgrade of analog to IP
- Continue clean up including removing duplication throughout

Proposed schedule

- April – May: Structural changes and content removal
 - Present at May Meeting
- July – August: Develop new content and review/update graphics
 - Present at August Meeting
- September – October: Review and reconciliation of comments
- November: Incorporated into master document

Ms. Dores was unable to attend; her Facilitation section updates remain currently underway regarding those CBP/facilitation issues that affect, or are affected by, the various levels of access control functions necessary to CBP's operations at international borders as well as concerns regarding integration and/or common use of certain facilities.

6. Other Discussion Items

There was a very brief discussion of issues regarding recruitment of future committee members and section leaders as well as potential for international content and participation. Dr. Wilkinson has prepared a short PowerPoint for circulation at an upcoming ACI conference in Seattle, which may also be appropriate for solicitation of ACC and AAAE participation, especially since the new chair of the ACC security committee is from GDIT.

7. Further Discussion on Development for DO-230M:

During several previous plenary sessions, the Committee has noted suggestions to be addressed in DO-230M; several remain on an indefinite to-do list.

- Procurement section requires an update and new chair;
- Communications section badly needs updates and new leader;
- Potential for some perimeter access issues (first responder, ARFF, etc.) Reviews must constantly watch for any ties to ACS.
- Mr. Kosatka and Mr. Branker will add to SOC and Introduction sections respectively as they continue to evolve;
- Artificial Intelligence – has potential for all sections;
 - Mr. McGhee characterizes it as merely data analysis and pattern recognition, reliance on machine learning algorithms -perhaps a small item in each *relevant* section regarding potential.
 - Mr. Kosatka notes numerous recent articles about the value and accuracy of AI output. There are many narratives about errors, falsehoods, conflicts among sources –with no regard for truth, it only knows what the algorithm tells it.
- Buy America for procurement section; need a volunteer
- Situational awareness - related to integration;

8. Next Meetings:

May 18 th	90 th Plenary
July 13 th	91 st Plenary

The meeting was adjourned.

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Art Kosatka

Secretary

CERTIFIED as a true and Accurate summary of the Meeting.

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Christer Wilkinson

Co-Chair

-S-

Alan Paterno

Co-Chair

SEE FOLLOWING

THIS IS LEFT OVER FROM EARLIER ... I JUST THOUGHT IT'S WORTH A RE-MENTION

Chair Wilkinson suggested this should be a separate document and put on the web site for follow-up at the next meeting.

RTCA future changes conversation

A couple of thoughts come to mind:

- Over 13 iterations (over 20 years and 13 TSA Administrators) we have advanced from very few pages to over 300 pages covering an ever-widening range of topics, from regulatory changes to technology advances to industry experience to passenger “accommodations” superseding security considerations ... all/each of which are likely to keep changing at a different pace, and some being uncomfortably redundant with NSSA and ACRP publications who continue to be apparently gleefully unaware of their parallelism.
- A few of us even tried to promote a “companion” document, perhaps living online, that tracked those comparisons and differences and redundancies, but the chaotic reality of the inventory made it impossible. Some have tried to keep coloring inside the Title’s scope boundaries, not always successfully due largely to the range and years of expertise and experience of the changing authorship...just an observation, not a complaint.
- Our own long-lived SC 224 leadership, including section leaders, has, or will soon, yield to the next generation. What happens when nobody steps up?

SO: food for thought--

- Who / what’s next. How to recruit while maintaining some thematic balance (see below).
- Is this a domestic or international Standard (as the title implies) -- If the latter, what are we missing... some consultants who speak regularly in Europe are told to avoid being US/TSA centric in their presentations.
- Is there ANY indication of whether Doc 230 is known /followed internationally; is there a European equivalent. Many ICAO signatories have either entirely adopted or partially/ entirely customized other US or UK standards.

- Is this really a “Standard” at all, or just a compilation of pretty good material evolving in relatively constant motion. (i.e., need a new title, fixed end date?)

But we find that most international recommendations not to be US/TSA centric apply to passenger processing and not baggage handling which we do not cover. Identity management (as we do it) is a strictly US process, but everybody must have a parallel system of some kind. (see Annex 17, Doc 8973). Whether they are effective is a different conversation.

Some international airports claim this is all unnecessary because “all” their employees are screened. (That’s ID badge, not access control). Have we surveyed airports, domestic and international, on their knowledge of DO-230 and the applicability within their organizations”? Is there a need for a European-centric equivalent of DO-230 under a collaboration with EUROCAE similar to the work being done under SC-216 for Aeronautical Systems Security? This would widen the scope and move us away from being perceived as a US/TSA-centric document and be more universally accepted. We’ve talked about this a few years ago but never moved forward with it and given the need for succession planning from our chair(s) to section leaders, this would be an opportunity to look closely into future planning.

... which is precisely why our document should be coordinated with (and marketed to) a broader international audience, both for SME participation and for operational design guidance. A standard should be seen as more of a minimum floor of requirements.

Imminent marketing opportunities: Some Committee members may attend and present at upcoming industry events. In particular, the theme of the ACC/AAAE goes directly key issue of recruiting the next generation.

Many of RTCA’s pubs and standards already have international members and meetings. Maybe this is just another administrative role. It’s then up to the members and plenaries to re-direct the content; introduce a non-US perspective and/or Anx-17 angle. Might require adjustment to the TOR.