



| ICAO

SECURITY & FACILITATION

NO COUNTRY LEFT BEHIND



NTWG's Work Towards TRIP

Michael Holly

Senior Advisor for International Affairs, Department of State, Bureau of Consular Affairs, Passport Services

Chairperson, ICAO New Technologies Working Group (NTWG)

Strengthening Aviation Security through Improved Traveler Identification



ICAO

SECURITY & FACILITATION

NO COUNTRY LEFT BEHIND



The Technical Advisory Group to the Traveler Identification Program (TAG/TRIP) Term of Reference (ToR) was finalized in March 2016 at TAG/TRIP/1. The New Technologies Work Group is committed to aligning with this TAG/TRIP ToR.





The ICAO TRIP Strategy, a holistic approach for traveler identification management consists of the following elements:

- **Evidence of identity** – credible evidence of identity, involving the tracing, linkage and verification of identity against breeder documents to ensure the authenticity of identity
- **MRTDs** – the design and manufacture of standardized MRTDs, including ePassports, that comply with ICAO specifications;
- **Document issuance and control** – processes and protocols for document issuance by appropriate authorities to authorized holders, and controls to prevent theft, tampering and loss;
- **Inspection systems and tools** – inspection systems and tools for the efficient and secure reading and verification of MRTDs, including use of the ICAO PKD; and
- **Interoperable applications** – globally interoperable applications and protocols that provide for timely, secure and reliable linkage of MRTDs and their holders to available and relevant data in the course of inspection operations.



The current work and activities of the NTWG are directly contributing to the advancement of various pillars of the TRIP strategy.

Evidence of Identity

Initiative	Relevance to TRIP Strategy	Status
Visible Digital Seals	<p>The standardization of this technology provides issuers with a tool to strengthen the integrity of documents where integrated circuit chip technology is not viable.</p> <p>States could apply internationally-compliant specifications to securely print 2D barcodes with biographic and/or biometric information of the rightful holder.</p>	<p>Technical Specifications – complete (awaiting integration into Doc 9303).</p> <p>Use Cases to be better defined.</p>
RFI	<p>The triennial request for information provides the NTWG with a mechanism to gather pertinent information about emerging technologies with applications in the area of travel document issuance, use and control.</p> <p>The RFI could yield information about technical solutions that could strengthen document issuance, support identity verification and ensure that fraudulent documents or documents being used by imposters are intercepted.</p>	<p>Evaluation to take place in 2016 and presentations to be provided in April 2017.</p>



MRTDs

Initiative	Relevance to TRIP Strategy	Status
LDS2	<p>The LDS2 Policy Sub-Group's current work to outline the concept, benefits, and barriers to implementation of LDS2 technology supports the TRIP strategy's objectives of creating common international specifications and policy relating to MRTDs.</p> <p>The group's ongoing work to identify and address policy and operational barriers to implementation, and collaborate with ISO WG3 will allow the NTWG to effectively standardize and endorse this technology for international deployment and use.</p>	<p>Technical Specifications – complete and endorse by the TAG/TRIP.</p> <p>Operational Policy – 60% complete.</p>
Best Practice Guidelines for Optical Machine Authentication	<p>The creation of international best practices to promote the optimal placement of document features adds to the base of international specifications that can be applied in manual or automated document processing.</p> <p>Issuing documents that lend themselves to this process adds to the rigor of document screening and integrity of the document itself (as misplaced features can be identified).</p>	Best practices endorsed by the TAG/TRIP/1.



MRTDs

Initiative	Relevance to TRIP Strategy	Status
Photo Standards	Updates to the photo standards published in Doc 9303 will ensure that States are using the most recent photo technologies available to print and store photos in the travel documents that they issue. Enhancing the overall quality of photographs improves the usability of the document at the border and furthers the ability of border services offices to match the holder to the document.	Work is underway to finalize 3 rd Generation of photo standards that will address backwards compatibility issues with the 2 nd Generation standards.
Quality Evaluation Mechanism for Printed Portrait Quality	Providing States with a tool to assess the quality of printed portraits will allow for ongoing improvements to State-issued documents. Continuous improvements to the photo component of a travel document will ease the burden on border officials in performing manual one-to-one matching.	The Quality Evaluation Mechanism for Printed Portrait Quality has been drafted and required review from NTWG members.



MRTDs

Initiative	Relevance to TRIP Strategy	Status
Photo Morphing	Identifying means/strategies to combat the threat of photo morphing will contribute to the enhancing the security of the travel document and the processes behind its issuance.	<p>The upcoming RFI includes a category for photo morphing. As an emerging issue/threat, it is likely that members of the travel document community will come forward with plausible solutions.</p> <p>Additionally NTWG Members have been asked to engage their stakeholders in the development of solutions to this issue.</p>
Mobile Credentials	Developing specifications to support the issuance of mobile/virtual credentials could fundamentally change the format of the passport and the means by which passengers are processed. Key policy, technical and legal questions will need to be addressed as the working group explores this concept.	The NTWG has established a sub-group that will assess the feasibility of storing the passport on a mobile device or in a virtual space.



Document Issuance and Control

Initiative	Relevance to TRIP Strategy	Status
LDS2	The LDS2 Policy Sub-Group's current work to finalize technical foundation for the use of LDS2-enabled ePassports supports the TRIP objective to prevent document tampering. The mechanisms to protect the integrity of data added to the document after it has been issued prevent the ability of fraudsters to attempt to manipulate data that may be used to determine admissibility to or exit from a State.	Technical Specifications – complete and endorse by the TAG/TRIP/1. Operational Policy – 60% complete.
Doc 9303 7 th Edition	ICAO Doc 9303 provides explicit guidance to support travel document issuance, use and control that contributes to security and facilitation of international civil aviation. Chapters and information focused on sharing information to support the interception of lost, stolen or revoked documents and encourage authentication via the ICAO Public Key Directory lay-out the foundation for effective document control.	7 th edition of Doc 9303 Published in July 2015. TF2 will continue working to collect and integrate amendments using ICAO's amendments procedures.
Visible Digital Seals	The work of the NTWG to establish security features for non-electronic travel documents contributes to the ICAO TRIP Strategy by providing a safeguard for non-electronic documents that are more susceptible to fraud and/or manipulation.	Technical specifications have been developed and endorsed. The NTWG will collaborate with ISO WG3 to identify use cases beyond visas.



Inspection Systems and Tools

Initiative	Relevance to TRIP Strategy	Status
Best Practice Guidelines for Optical Machine Authentication	<p>The creation of international best practices to promote the optimal placement of document features adds to the base of international specifications that can be applied in manual or automated document processing.</p> <p>Issuing documents that lend themselves to this process adds to the rigor of document screening and integrity of the document itself.</p>	Best practices drafted – requires review by NTWG Members and endorsement from the TAG/TRIP/1.
Technical Report: Roadmap	The identification of travel document technology milestones raises awareness of the inspection system adjustments that must be made by States to continue to ensure that travelers can be efficiently processed.	Draft 1.0 circulated for comment; endorsement will be sought from the TAG/TRIP in March 2016
RFI	Various categories of the upcoming RFI are centered on inspection technologies and procedures. The information gathered through this open request could be used to shape future work of the NTWG on inspection systems.	RFI Evaluation Committee formed. Evaluation to take place in 2016 and presentations in 2017.



| ICAO

SECURITY & FACILITATION

NO COUNTRY LEFT BEHIND



38th Session of the Assembly (A38), *Consolidated statement of continuing policies and practices related to facilitation (A38-16)*

“Whereas the ICAO Traveller Identification Programme (ICAO TRIP) Strategy provides a framework for achieving the maximum benefits of travel documents and border controls by bringing together the elements of identification management, and building on the success of the ICAO MRTDs Programme;”



| ICAO

SECURITY & FACILITATION

NO COUNTRY LEFT BEHIND



Contact Details

Name: Michael Holly

Email: hollyrm@state.gov