



Certification Oversight Board

Bilateral Enhancement Roadmap (BER)

Sponsors:

This Roadmap is sponsored by the Certification Oversight Board and signed by the Co-Chairs

For: European Union Aviation Safety Agency

Federal Aviation Administration

Rachel Daeschler Certification Director February 23, 2023

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Executive Director Aircraft Certification Service

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1. Preamble

This Bilateral Enhancement Roadmap (BER) has been developed by the Certification Oversight Board(COB) as the successor of the Validation Improvement Roadmap (VIR), See Annex 1 to the Agreement, Paragraph 3.2.11(b). The name change is to introduce consistency across the Certification Management Team (CMT) group partners.

The first issue (of the VIR) was approved on February 29, 2016. The VIR was updated with issue 2 to highlight those goals that had been achieved and revise the target dates for goals that were still active. It added new goals that were not envisioned in the first release. Issue 3 clarified dates of actions already accomplished and the expected TIP revisions for future actions.

The VIR covered activities to the end of the year 2022. This BER has been issued to supersede the VIR and cover activities for the next 5-year period (2023 to end of 2027). The BER has been retitled to capture more aspects of the bilateral relationship (under the oversight of the COB) beyond those covered by the VIR. The COB will continue to review its implementation on a yearly basis and will adjust it if necessary, through subsequent revisions. In case of significant change, the COB will inform the Bilateral Oversight Board (BOB).

2. Vision and Objective

The FAA and EASA had previously developed the Validation Improvement Roadmap (VIR) to respond to the increased globalisation of the aviation business that drives the need for greater collaboration among the authorities to harmonise regulatory systems in order to effectively respond to common industry issues

While the challenges with globalisation and validation programs still remain today, the COB envisions the need to expand on the scope of the engagement to further enhance the bilateral relationship beyond project validation matters.

The COB vision for the BER is to optimise the overall implementation of the Bilateral Aviation Safety Agreement by enhancing not only the acceptance of certificating authority (CA) approvals and findings of compliance by the Validating Authority (VA), but also in other areas that the COB sees the need to address to effectively meet the challenges ahead.

In addition to continuing the application of the risk-based validation principles to ensure a commensurate certification resource expenditure during validation activities, while assuring a high degree of safety, this BER aims to expand to the full scope of the bilateral engagement, including for example global data sharing, safety management systems, collaboration in innovation, and cooperation in oversight activities. It also references in other activities under the CMT (and other forums) that also promotes bilateral collaboration on technical subjects: such as human factors and the Changed Product Rule (CPR).

Table A below documents the initiatives, concluded or underway, which will not only provide improvements to the implementation of the risk-based validation principles but also in strategic areas determined to be beneficial in enhancing the relation and engagement between the authorities. An estimated target date in which these initiatives could be accomplished is also provided; however, it is contingent on both EASA and FAA to promulgate international standards in a timely and consistent manner.





3. Status of the VIR

The COB considers that the current VIR (at Issue 3) has accomplished the major goals for reduction in validation effort as intended. The FAA-EASA TIP revisions up to Revision 6 have resulted in changes to the TIP architecture that incorporated the major goals set out in the VIR.

At time of drafting this BER the COB acknowledges that not all items of the VIR have been implemented within the EASA/FAA relationship either within each Authorities rules and regulations or within the BASA/TIP.

In recognition of the current landscape some of the outstanding items will be captured into the BER either in its original form or modified to better reflect best practice and the prevailing strategic direction of the Bilateral Oversight Board (BOB).

The table below summarises those outstanding items from the VIR for reference.

Focus Areas	Initiative Description	Desired Outcome
Streamlined	Define classification criteria	An issuance of an approval in the system of one party
validation of	for streamlined validation of	leads to an issuance by the validating authority without
Certificates	low-risk TCs (Part 23, 27, and	any technical involvement.
and Approvals	33 (turbine engines))	
 No technical 		Note: The FAA is required to issue Certificates
involvement		(Approvals) but can accept ETSO authorisations without
		issuing an FAA LODA/TSOA.
	Define classification criteria	
	for streamlined validation of	
	all TCs (part 25 and 29)	
	Streamlined validation of	
	STC and TCs for all products	
Common	Incorporate as default VA to	One single certification basis will facilitate reciprocal
Certification	use CA certification basis for	acceptance of Certificates and Approvals, and
Basis	all validation projects with a	streamlined validation of Certificates and Approvals
	work plan.	
Regulatory	Streamlined operational	Enhance the harmonization of technical standards and
Cooperation	validation process by	policies to further streamline the reciprocal acceptance
and	optimizing reliance on the	of approvals and determinations of compliance with the
Harmonisation	CA system (OSD/MMEL)	ultimate goal of CA certification basis being acceptable
		to the VA with no additional technical conditions.
	Develop criteria/procedures	
	for reciprocal acceptance of	
	ADs & Alternate Means of	
	Compliance to ADs.	
	Streamlined environmental	This initiative supports the concept of using one
	validation procedures by	common certification basis for CA and VA. This initiative
	optimizing reliance on the	has various external factors which may not be under AIR
	CA system	control (e.g., FAA rulemaking process).





Focus Areas	Initiative Description	Desired Outcome	
	Develop necessary procedures for acceptance of Certificate of Conformity in lieu of 8130-3 for commercial parts	This initiative supports the concept of a global recognition of SMS when approved by the state of design or manufacture.	
UAS/RPAS	Developnecessaryprocedures in TIP to applyvalidationprinciplesUAS/RPAS products	UAS/RPAS	

Table 1: Open VIR Items

4. Roadmap Focus Areas

The BER sets out a group of high-level aspirational aims that the two Authorities (re-)commit to working towards a common certification (safety) culture, for the enhancement of the relationship and the mutual competitiveness of Industry while achieving their safety goals and priorities. Alignment of those safety goals and priorities are also desired where possible considering the landscape in which the Authorities exercise their responsibilities.

4.1 Reciprocal Acceptance of Approvals

An approval in the system of one party constitutes a valid approval in the other party's system without any technical involvement or issuance by the VA (importing authority).

Initiative Description	Timeline	Desired Outcome
Acceptance of Airworthiness	2027	Enhance the implementation of corrective
Directives (ADs) and Alternative		actions to notified unsafe conditions.
Means of Compliance (AMOCs) issued		
by the CA.		

4.2 Streamlined Validation of Certificates and Approvals

An issuance of an approval in the system of one party leads to an issuance by the VA with only a review of the application package. This simplified method of validation was created to further leverage acceptance of findings of the CA and reduce VA validation effort for low-risk products.

Initiative Description	Timeline	Desired Outcome
Define classification criteria for	2026	An issuance of an approval in the system of
streamlined validation of Part 23		one party leads to an issuance by the
reciprocating engine powered TCs.		validating authority without any technical
		involvement.





Initiative Description	Timeline	Desired Outcome
Define classification criteria for	2027+	An issuance of an approval in the system of
streamlined validation of Part/CS 23		one party leads to an issuance by the
turbine engine powered TC.		validating authority without any technical
		involvement.
Define classification criteria for	2027+	An issuance of an approval in the system of
streamlined validation of Part 33/ CS-		one party leads to an issuance by the
E and Part /CS 27 TCs.		validating authority without any technical
		involvement.
Streamlined operational validation	2024	Enhance the harmonisation of the regulatory
process by optimising reliance on the		framework, technical standards and policies
CA system (OSD/MMEL)		to further streamline the reciprocal
		acceptance of approvals and determinations
		of compliance with the ultimate goal of CA
		certification basis being acceptable to the VA
		with no additional technical conditions.
Streamlined environmental validation	2024	This initiative supports acceptance of noise
procedures by optimising reliance on		and emission test data and compliance
the CA system		determinations made by the CA, avoiding any
		duplication of noise or emission tests and data
		review by the VA.

4.3 VA's Retained Involvement

The Level of Involvement (LOI) is established on risk-based principles that recognises the CA as the competent authority. This process applies a work-plan that incorporates transparency of the validation scope between each authority and ensures common principles and procedures that maximise reliance on the CA's findings. The work plan requirement was introduced in TIP rev 6 and allows the visibility into the VA's validation process and more certainty for the Applicant and CA.

Initiative Description	Timeline	Desired Outcome
Develop necessary procedures for	2024	Agree on parts which could be eligible to be
acceptance of parts through its		accepted by the other Party with a Certificate
Certificate of Conformity in lieu of		of Conformity in lieu of an Authorised Release
8130-3 or Form 1		Certificate
Refine criteria for the scope of	2024	LoI in TCs is reduced incrementally through
Validation involvement for TCs		the reduction in scope of the SEI Lists.
(Simplify/reduce SEI Lists)		
Validation Work Plan	2023	Develop and implement guidance and
		improvements to Validation Work Plans use
		and process, drawing on experience





4.4 Maintenance of Confidence

The E.U. /U.S. Bilateral Aviation Safety Agreement (BASA) contains an obligation between the parties to ensure that confidence is maintained with each other's regulatory system. The Technical Implementation Procedures (TIP) contains the description of the process to maintain that confidence.

Initiative Description	Timeline	Desired Outcome
Reinforce the cooperation framework on COS / CAW matters	2025	Further improve the management of continued airworthiness through full cooperation and sharing of COS/ CAW data
Global Data Sharing	2027	Further improve the global level of safety by jointly gathering, managing and analysing safety data; and utilising advanced data analytics to evaluate risks, identify precursors, and develop effective mitigations.
Maintenance of Confidence, Level of Involvement	2024	Promote continued understanding and compatibility of each other's standards, rules, practices, procedures, and systems to ensure the maintenance of confidence in each other's technical competence and ability to perform regulatory functions.
Regulatory Staff Development through joint initiatives	Continuous	The development of better relationships through all levels of the organisations fosters deeper understanding and reliance on the systems with high levels of common understanding and application and caters for staff turnover

4.5 Regulation and Cooperation Strategy

One of the core aims of the U.S. – EU aviation safety agreement is to:

"ensure the continuation of the high level of regulatory cooperation and harmonisation between the United States and the European Community...."

The previous VIR incorporated several items to this effect. However as regulatory evolution is a continuing process the BER must continue to strive towards those aims at all levels.

The drive towards regulatory cooperation and harmonisation is best achieved early within the innovation lifecycle and therefore cooperation between EASA and the FAA during the early stages of technological development brings benefits to industry through streamlined approached.

To achieve this EASA and the FAA aim to foster collaboration on regulation and innovation topics.





Initiative Description	Timeline	Desired Outcome
Pilot Training, Human Factors,	2027	For large aeroplane certification develop
Operational Evaluations		compatible assessments in the areas of:
		• System safety assessment requirements
		and methodologies, including integration
		of HF evaluation
		Operational evaluation and associated
		derived type specific training
		requirements
Safety Management Systems	2026	Globally accepted methods to identify risks
Survey Management Systems	2020	and mitigate hazards through the
		establishment of safety management systems
Changed Broduct Bule	2025	A globally barmonicad application of CBP that
Changed Product Rule	2025	A globally harmonised application of CPR that
		and maturing bilatoral validation and
		and maturing bilateral validation and
	2024	acceptance procedures.
Systematic regulatory cooperation	2024	Achieve a systematic cooperation and
		coordination of Rulemaking activities, in order
		to achieve compatability as early as possible in
		each Authority's Rulemaking process
Bilateral Collaboration – Innovation,	2025	Established criteria and processes for early
Technology and Research		engagement with authorities on new and
		novel technologies that may require
		international harmonisation of requirements.
Light Sport Aircraft: Reach compatible	2026	An issuance of an airworthiness approval
systems after MOSAIC and Part 21		(excluding environmental) in the system of
Light;		one party can be validated to compatible
		requirements by the validating authority.
E-VTOL: Develop compatible	2026	An issuance of an airworthiness approval
certification mechanisms;		(excluding environmental) in the system of
		one party can be validated using compatible
		requirements by the validating authority.
UAS: Develop compatible certification	2027	An issuance of an airworthiness approval
mechanisms;		(excluding environmental) in the system of
		one party can be validated to compatible
		requirements by the validating authority.
Modernisation of TSO requirements	2024	A globally compatible framework of TSO
framework		requirements that ensures the safe continuity
		of existing reciprocal acceptance procedures.
EHPS: Develop compatible	2027	An issuance of an approval in the system of
certification mechanisms:		one party can be validated to compatible
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