# Migrating to DO-178C and other

# Avionics Software Certification Trends

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Wind River, Ada Core and Verocel showed the webcast audience how use of COTS technology and best practices in software certification can improve time to market and reduce risk for safety-critical software developers.

Wind River introduced the benefits of using an Integrated Modular Avionics architecture as a basis for certification portability and reusability covering topics such as FAA AC20-170, Integrated Modular Avionics Development, Verification, Integration, and Approval Using RTCA/DO-297 and Technical Standard Order-C153.

AdaCore introduced tools and techniques for easing the development and certification costs for applications to be deployed within an IMA architecture. Options for certification approaches were discussed along with methods for automating these approaches. Full software development environments were discussed with tight integration of tools and toolsets when they are applicable to the development or safety certification effort for a particular safety standard.

Verocel introduced the processes, activities and objectives required by certification standards across various domains.  The discussion focused specifically on the aerospace sector and described revisions being proposed in DO-178C, DO-248C and other documents.  Verocel's approach to the use of these standards for certification was described.