Testwell CTC++ User Testimonial

Background

Contromax Co., Ltd. is located in South Korea, develops electromechanical actuators for aircraft, also known as aircraft servos. The company products are applied to the fields of flight-, wing tilt-, steering-, and brake control, and they can also comply with aircraft manufacturer's and aviation authorities' requirements with understanding of aircraft system development lifecycle and safety requirements.
Like many other products, software in our products is a key element not only to run the servo itself, but also to secure the safety of a higher-level system such as flight control system or aircraft. Therefore following a chosen aviation practice and guidance is crucial for us to prove the integrity of software during entire product development lifecycle. According to SAE ARP4761/4754, when a failure condition classification of aircraft-level or system-level function including servos is higher than or equal to MAJ(major), most likely DO-178C will be called out as a means of compliance for the software reliability.

Electromechanical actuators for aircraft

To meet the software verification objectives defined in DO-178C, there are quite a few tool chains available in the market. Some are very reputable with a higher market share while the initial investment is quite overwhelming especially for small businesses like us. At the beginning of a project in which DO-178C DAL requirement was identified, we started finding a DO-178C compliant tool, finally Testwell CTC++ from Verifysoft was selected.
One of our lessons learned about tool selection is that there was always a practical solution that was developed by a group of people who were eager to the best balance between initial investment and actual returns, where we believe Testwell CTC++ is well aligned with our company strategy, work culture and practice.

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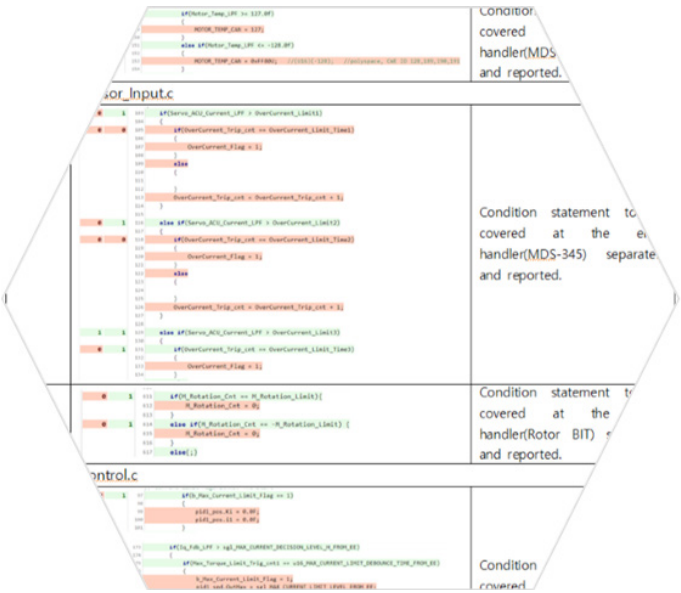
Strength of Testwell CTC++
Fit for purpose

When we started a tool selection process, we focused on defining key functions thoroughly rather than jumping into and looking at a reputation of a tool itself, and then to find a ‘fit for purpose’ tool. Testwell CTC++ fulfills such our purpose to comply with a given set of DO-178x requirements while it’s not too complicated to use, compatible with our existing IDE, and lean to install. Only a few numbers of command cover all the essential software dynamic test in our case, which is more efficient than other fancy and complicated GUI based tools, and the report is reasonably intuitive to quickly catch up.

Easy to integrate

The integration to our IDE was easy. Even if the testing options sometimes require a change over a text-based configuration file, it was easy enough to accommodate.



Technical support

Another strength of this tool is a well-organized online help and technical support team of Verifysoft. We encountered lots of questions at the initial deployment and sometimes needed real-time support especially when running towards a project deadline. The Verifysoft support team shows not only customer-oriented mindset but also strong competency about tool itself as well as good test practices adopted in the industry.

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Flexible

The Verifysoft operation and management teams are very flexible and friendly. They are highly empathetic towards frustrations and challenges that their customers might have faced during software testing. Verifysoft was very pragmatic and customer-oriented when we made a mistake in a purchasing process. They deserved our big gratitude and made us confident that they were cheering up customer success.

Our Customer Feedback

One of our customers (an aircraft manufacturer), reviewed a software test report that we submitted, and looked intrigued due to unfamiliar report format. We introduced Testwell CTC++ with its capabilities and pricing, then they were so fascinated as they haven't seen such a cost-effective tool before, and the outcome of the testing was also well aligned with their requirements. We provided details of Testwell CTC++ as they requested.

Summary

DO-178C is always overwhelming subject in aviation business, even to me as the author of this testimonial as well as a former aircraft systems safety and reliability engineer for several eVTOL companies. It is still a challenging project in terms of justifying all the safety compliance in time with extensive work products. However as long as we hold the solid philosophy on how and why such stringent software considerations are required in aircraft, we are happy to keep using Testwell CTC++ as our main software dynamic testing tool.

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