



TOULOUSE, FRANCE  
MARCH 18-19  
**2020**  
AEROSPACE  
TECHWEEK



# ARINC 818 TRAINING

DESIGNING, SIMULATING & TESTING ARINC 818 IINTERFACES

*A hands-on workshop: Thursday, March 19, 2020 - 9am-4pm*

*Diagora Convention Center - Autan Room, 1<sup>st</sup> Floor*



Spots are  
limited.

Register  
Today!

This hands-on workshop will provide a deep dive into the ARINC 818 protocol, and its applications. It is appropriate for system architects, avionics engineers and production test engineers. This workshop will provide valuable information that draws from GRT's experience as the world leader in ARINC 818 tools and systems. Participants will get experience using the most advanced ARINC 818 tools available.

## /SCHEDULE

**Session 1:** Best Practices in Testing, Simulating & Validating ARINC 818 Systems  
~ Tim Keller

**Session 2:** Implementing the ARINC 818 Protocol into your Hardware and IP Core considerations. ~Jon Alexander

**Session 3:** Advanced Product features for Troubleshooting, Testing and Simulating  
~ Tim Keller & John Alexander  
*We will use a case study of running a DO-160 qualification test and running production ATPs.*

All sessions will include Hands-On Equipment Demos.

You will become certified on GRT's **ARINC 818 Simulation and Test Product Suite** by attending, and successfully completing the required case studies and labs.

## **Session 4:** Open Lab

~GRT and Techway staff

*We will provide real-life scenarios for participants to get experience using the world's most comprehensive set of ARINC 818 tools.*

## /AVAILABLE EQUIPMENT:

- Velocity Frame Grabber & Graphics Generator
- Video & Protocol Analyzer:
  - GEN III
- XF Tuner - ARINC 818 Generator
- Velocity XI (Any ICD)
- Switches:
  - 4x4 Panthera
  - 10x10 Spider
- HS SAM
- VCM (Video Converter Module)
- ARINC 818 Embedded Boards

**Class Cost**  
€225.00

Register Here: <https://www.greatrivertech.com/arinc-818-training>

## ABOUT THE PRESENTERS



**Jon Alexander (MSEE),  
Senior Engineer and CEO**

Jon has 34 years' experience in electronics design and specialized knowledge in all GRT ARINC 818 products. In 1996, he founded GRT, which specializes in high performance digital video systems for aerospace and military customers. Mr. Alexander served on the ARINC 818 standards committee, and has been a chief designer of numerous ARINC 818, FC-AV, and HOTLink systems.



**Tim Keller (MSEE),  
Director of Marketing**

Mr. Keller served on the original ARINC 818 committee and drafted key sections of the specification. He served as the Industry Editor for the ARINC 818-2 revision in 2013. Prior to joining Great River Technology in 2005, Mr. Keller worked for 16 years as a control systems engineer for real-time embedded systems at Honeywell.

## THE ARINC 818 STANDARD

The ARINC 818 video interface and protocol standard manages high-bandwidth, low-latency, uncompressed digital video transmission. Jon Alexander and Tim Keller of Great River Technology participated in its development.

Today it is the proven commercial standard and military de facto standard for high-performance video systems. The Airbus A400M and A350XWB, the Boeing 787, and the KC-46A tanker all employ ARINC 818, as do avionics projects in Brazil, Canada, China, France, India, Israel, Russia, South Korea, Turkey, and the United Kingdom.

ARINC 818 video systems include infrared and other wavelength sensors, optical cameras, radar, flight recorders, map/chart systems, synthetic vision, image fusion systems, heads-up displays, heads-down multifunction displays, and video concentrators. These video systems are used for taxi and take-off assist, cargo loading, navigation, target tracking, collision avoidance, and other critical functions.

## AT THIS TRAINING YOU WILL GET HANDS-ON EXPERIENCE WITH:

- ARINC 818 format converters
- ARINC 818 video and protocol analyzers: Gen III
- ARINC 818 robustness testing and error injection tools
- ARINC 818 frame grabbers (Velocity & Matrix)
- ARINC 818 switches
- ARINC 818 IP development board
- ARINC 818 embedded hardware
  - Image Compare
  - Scripting



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