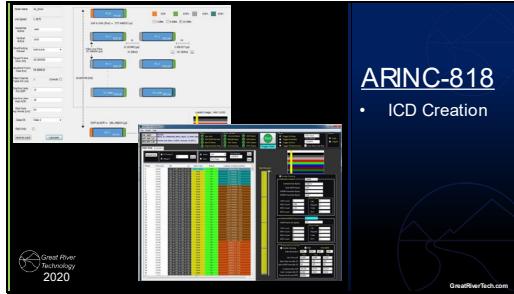
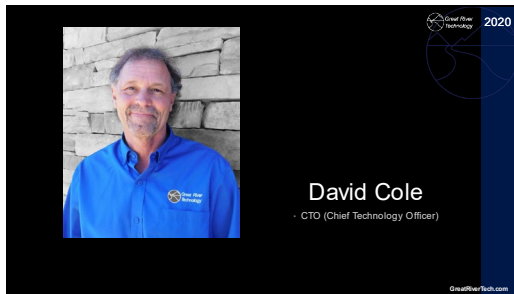


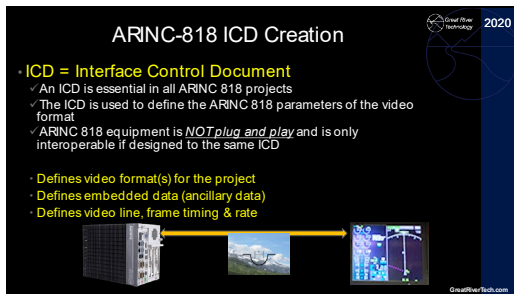
Slide 1




Slide 2



Slide 3



Slide 4

Developing your ICD  2020


First understand ARINC818

- **Get a copy of the Standard**
 - 818-3 Avionics Digital Video Bus (ADVB) High Data Rate ARINC Standard Store <https://www.icao.int/standards/content/arinc818-3/>
- **Review GRT's ARINC 818 Implementer's Guide**
 - Download at www.greatrivertec.com by way of the "ARINC 818 Made Easy" link
 - Simple ICD calculator (used in this tutorial also available)
- **Visit ARINC 818.com**
 - Helpful white papers

GRT offers ICD templates and timing calculators

GreatRiverTech.com

Slide 5

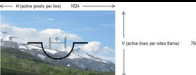
Developing your ICD –the next step  2020

Elements of your ICD

Required

- **ADVB link rate**
- **Video format parameters—resolution, video rate (FPS), pixel definition**

Ancillary data—size and content
Class of ordered sets (Class 1 or 3)




Not required for basic implementation

- Line delivery timing
- Blanking time
- Line segmentation
- How video lines are partitioned into ADVB packets

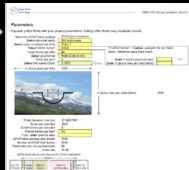
GreatRiverTech.com

Slide 6

Developing your ICD  2020

Simple ICD calculator demonstration

Resolution: 1280 x 1024 SXGA, 60Hz
Pixels are RGB (24 bit/pixel)
Auxiliary Data: Default = 1/100FPS
OS Class: 2
Link Rate: Not sure 232 or 252

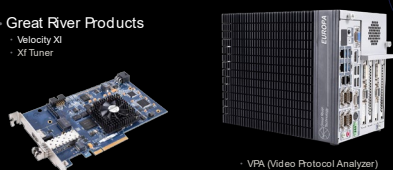


GreatRiverTech.com

Slide 7

Verify and Test

- Great River Products
 - Velocity XI
 - XI Tuner



VPA (Video Protocol Analyzer)


GreatRiverTech.com

2020

Slide 8


Use Xf tuner or Velocity XI and VPA (Analyzer)

- Xf Tuner or Velocity XI
 - Enter ICD parameters



VPA

- Analyze captured ARINC-818




GreatRiverTech.com

2020

Slide 9

Where now?

- Great River Technology Website
 - <https://www.greatrivertech.com/>



Next Recommended Videos

- Velocity XI and VPA
- Implementing ARINC818

ICD Examples

Timing Calculator (revised)

GreatRiverTech.com

2020
