

Innovation, Quality and Service MIL-STD-1553 & ARINC-429

AltaView for ARINC-429 (A429)









Presentation Outline

- Basic Layout of Graphical User Interface (GUI)
- A429 Channel Device verses Global Device Controls
 - Global Controls
- A429 User Setup
- A429 Receive (RX) Controls
- A429 Transmit (TX) Controls
- A429 Playback



AltaView Application GUI Basics

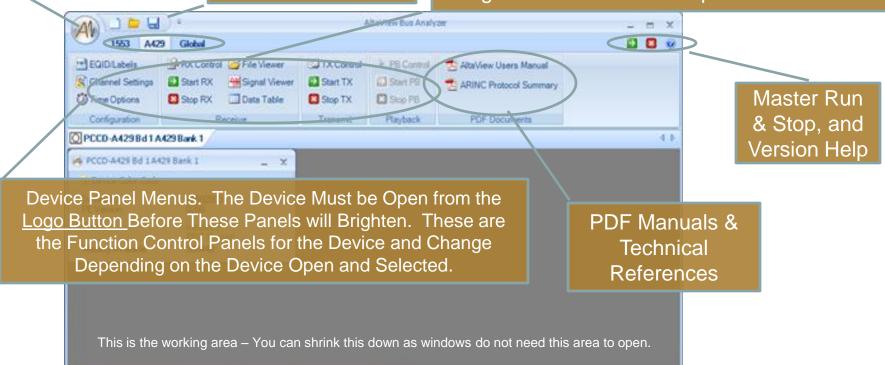
Logo Button.

Master Control of
Opening Devices
and Setup Files

Short Cuts.
Right Click on Logo
Button Selections
to Add Your Short
Cut Favorites

Device Selection Tabs.

Once a Device is Open from the <u>Logo Button</u>, Then You Can Select A Device To A429 or A429 (ARINC) Menus. The Menu's will Brighten if the Device is Open and Selected.

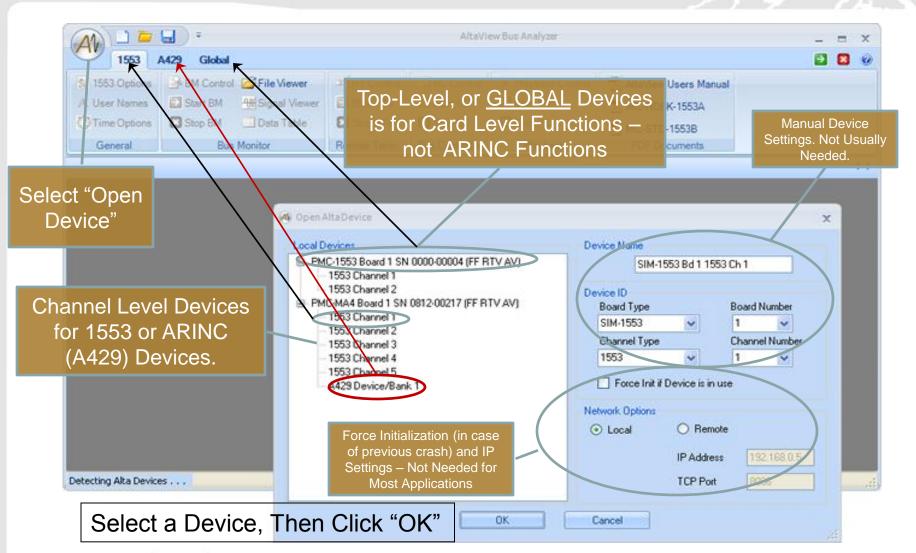


Innovation, Quality and Service MIL-STD-1553 & ARINC-429

C:\Program Files\Alta Data Technologies\Alta Software\Alta\Vew\Win32\bin\AV_Default.xml



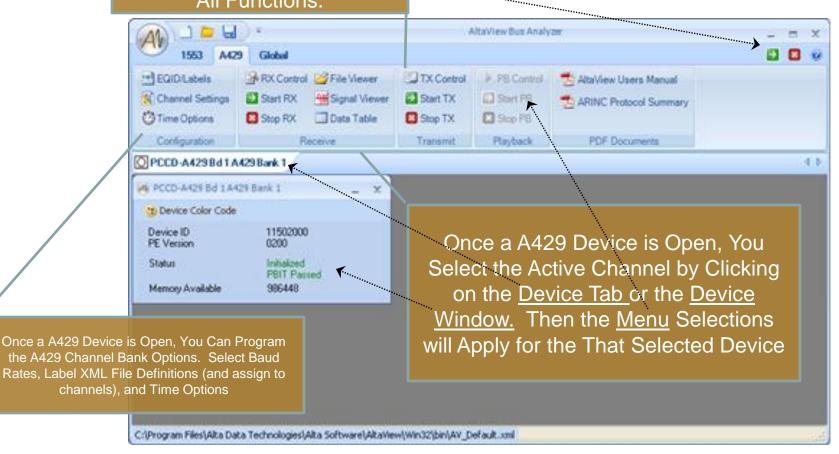
Opening Devices from Logo Button





Each Function Panel Has Its'
Own Start & Stop. The
Master Start & Stop Controls
All Functions.

A429 Devices Opened





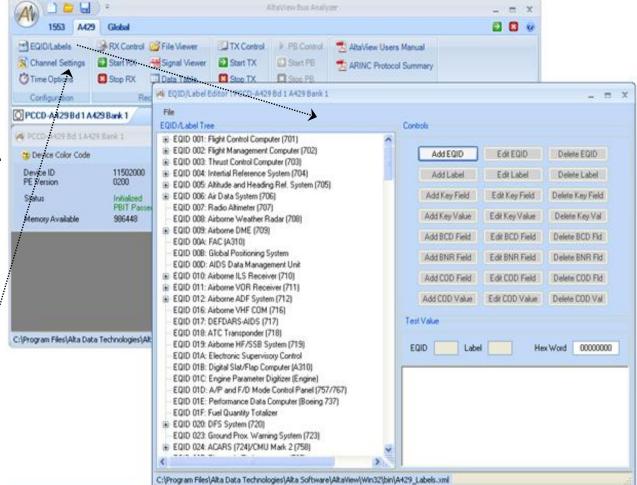
A429 Device Setup: Label XML Files

AltaView Provides the First XML Based Label Definitions!

Click on EQID and Select Your XML File.

Start with our Default XML File and Add or Change Your Own Label Definitions in ASCII, XML Schema or in GUI!

After Selecting File, Use Channel Settings to Assign EQID to a Channel.





Example XML ASCII File

Easy to Read XML Tags Let You Define Almost any ARINC 429 Label Sets.

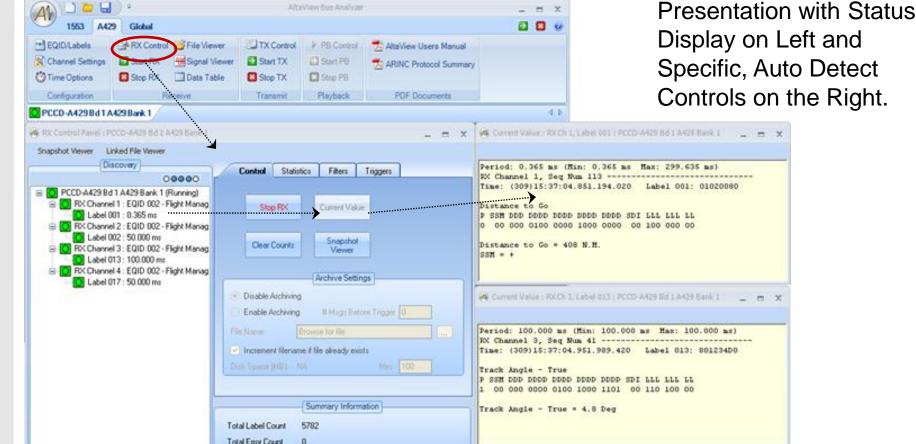
```
A429 Labels.xml - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="utf-16"?>
<!--XML File for AltaView Settings-->
<AV_A429_EQID_LABEL_DEFN AV_Version="2.0.2.0">
  <EQID Index="001" Name="Flight Control Computer (701)">
    <LABEL Index="004" Name="Runway Distance to Go" MinTxInterval="100" MaxTxInterval="200">
      <FIELD Name="Runway Distance to Go" Units="Feet" StartBit="29" EndBit="19">
        <BCD Digits="3" MSD_Size="3" Digit_Size="4" MinVal="0" MaxVal="79900" />
      </FIELD>
    </LABEL>
  </EOID>
  <EQID Index="002" Name="Flight Management Computer (702)">
    <LABEL Index="001" Name="Distance to Go" MinTxInterval="100" MaxTxInterval="200">
      <FIELD Name="Distance to Go" Units="N.M." StartBit="29" EndBit="11">
        <BCD Digits="5" MSD_Size="3" Digit_Size="4" MinVal="0" MaxVal="3999.9" />
      <FIELD Name="SSM" Units="" StartBit="31" EndBit="30">
        <CODEFIELD>
          <CODE Value="0" String="+" />
          <CODE Value="1" String="No Computed Data" />
          <CODE Value="2" String="Functional Test" />
<CODE Value="3" String="-" />
        </CODEFIELD>
      </FIELD>
    </LABEL>
    <LABEL Index="002" Name="Time to Go" MinTxInterval="100" MaxTxInterval="200">
      <FIELD Name="Time to Go" Units="Min" StartBit="29" EndBit="15">
        <BCD Digits="4" MSD_Size="3" Digit_Size="4" MinVal="0" MaxVal="399.9" />
      </FIELD>
    </LABEL>
    <LABEL Index="003" Name="Cross Track Distance" MinTxInterval="100" MaxTxInterval="200">
      <FIELD Name="Cross Track Distance" Units="N.M." StartBit="29" EndBit="15">
        <BCD Digits="4" MSD_Size="3" Digit_Size="4" Minval="0" Maxval="399.9" />
      </FIELD>
    </LABEL>
    <LABEL Index="010" Name="Present Position - Latitude" MinTxInterval="250" MaxTxInterval="500">
      <FIELD Name="Degrees" Units="Deg" StartBit="29" EndBit="21">
        <BCD Digits="3" MSD_Size="1" Digit_Size="4" MinVal="0" MaxVal="180" />
```



RX Control Panel

Consistent, Easy to Use

RX Control Panel with Auto Discovery, EU Real-Time Windows, Archive, Filter and Trigger Controls

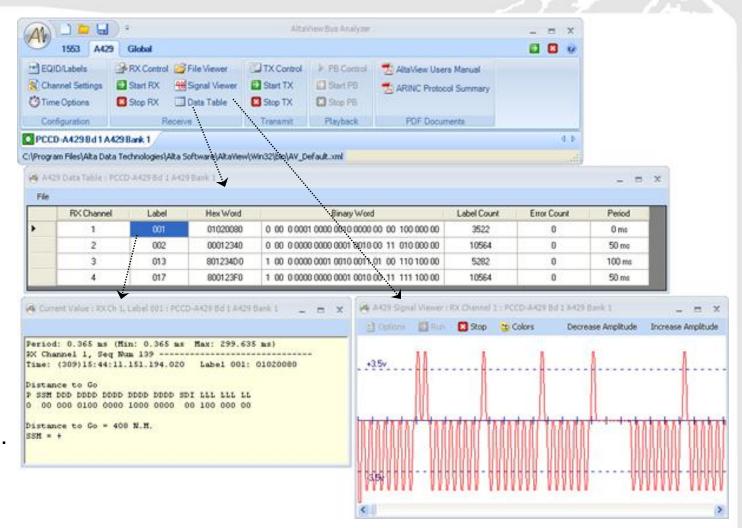




More Advanced RX Features

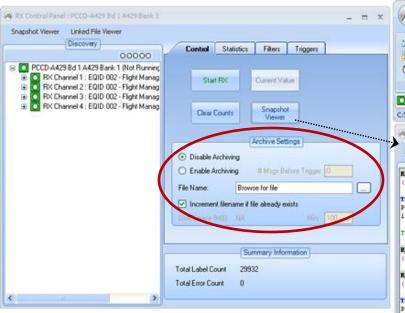
AltaView is the Only product To provide Advanced Data Tables, Label XML Real-Time Displays – AND Actual Signal Capture!

Virtually No Setup Required.

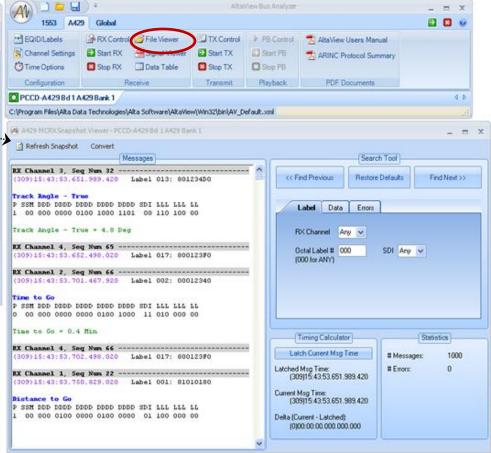




RX Archive and EU Snapshot

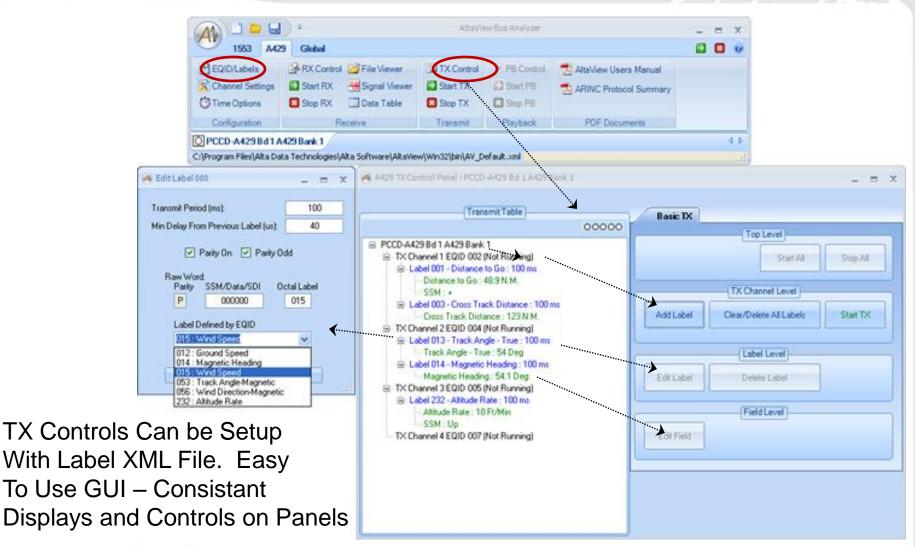


AltaView RX Control Panel Provides Easy Setup for Archiving all Channels, Snapshot Buffer Views and Post Analysis File Viewing. Load AltaView on ALL Computers for Free Post Analysis Viewing!



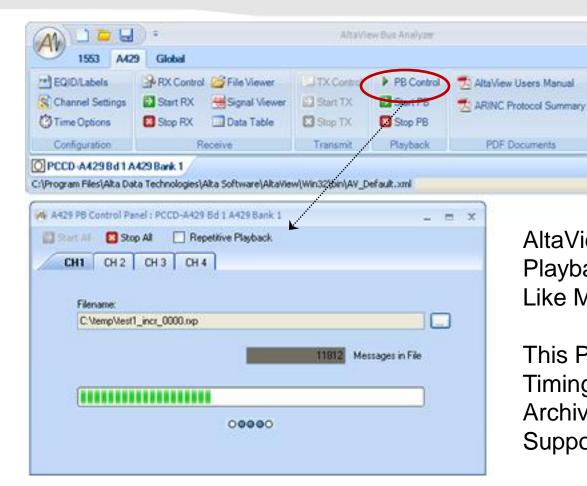


TX Control Panel





Playback Control Panel



AltaView Offers True Hardware Playback – Not Software Timed Like Most of Our Competitors.

This Provides Very Accurate Timing Reproduction of Archived Files. Multi Channel Support!



AltaView Summary

- Latest Generation Avionics Analyzer Using Full
 .NET and Ribbon Bar GUI Technologies
- XML & ARINC Label Setup and Schema Easy to Edit and Import ICD Information
- Easy to Use GUI Control Panels Consistent Displays without Windows Drill-up/Down
- Signal Capture and EU Data Conversion Built-In – Industry First!!
- Load AltaView on All Machines Free Post Analyzer with File Viewer and EU Data Tables!