



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

AltaView for MIL-STD-1553



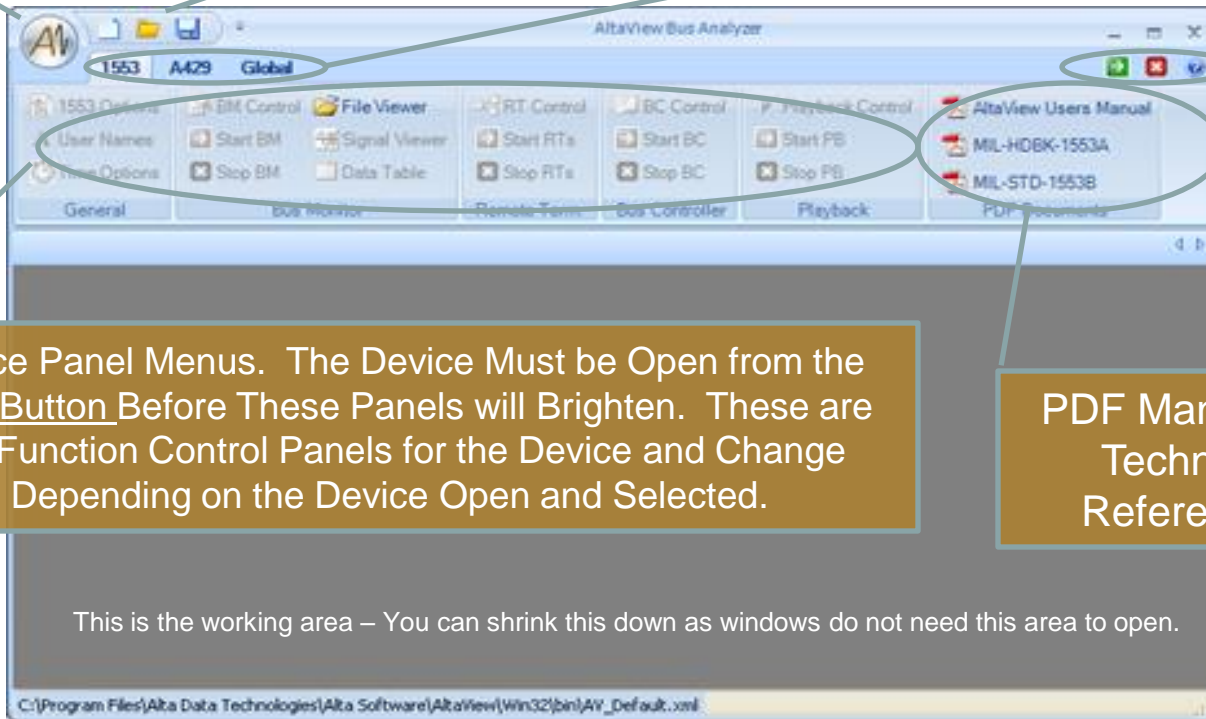
- Basic Layout of Graphical User Interface (GUI)
- 1553 Channel Device verses Global Device Controls
 - Global Controls
- 1553 User Setup
- 1553 Bus Monitor
- 1553 Remote Terminal
- 1553 Bus Controller
- 1553 Playback

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 Logo Button,
Then You Can Select A Device To 1553 or
A429 (ARINC) Menus. The Menu's will
Brighten if the Device is Open and Selected.



Device Panel Menus. The Device Must be Open from the Logo Button Before These Panels will Brighten. These are the Function Control Panels for the Device and Change Depending on the Device Open and Selected.

Master Run
& Stop, and
Version Help

PDF Manuals &
Technical
References

This is the working area – You can shrink this down as windows do not need this area to open.

Opening Devices from Logo Button

The screenshot shows the 'Open AltaDevice' dialog box in the AltaView Bus Analyzer. The dialog is divided into two main sections: 'Local Devices' on the left and configuration options on the right. The 'Local Devices' section lists several devices, including 'PMC-1553 Board 1 SN 0000-00004 (FF RTV AV)' and 'PMC MA4 Board 1 SN 0812-00217 (FF RTV AV)'. The configuration section includes fields for 'Device Name', 'Device ID', 'Board Type', 'Board Number', 'Channel Type', and 'Channel Number'. There are also checkboxes for 'Force Init if Device is in use' and 'Network Options' (Local/Remote), along with fields for 'IP Address' and 'TCP Port'. Annotations with arrows point to various elements: the 'Open Device' button, the 'Local Devices' list, the 'Device Name' field, the 'Device ID' section, the 'Force Init' checkbox, and the 'OK' button.

Top-Level, or GLOBAL Devices is for Card Level Functions – not 1553 or ARINC

Manual Device Settings. Not Usually Needed.

Select "Open Device"

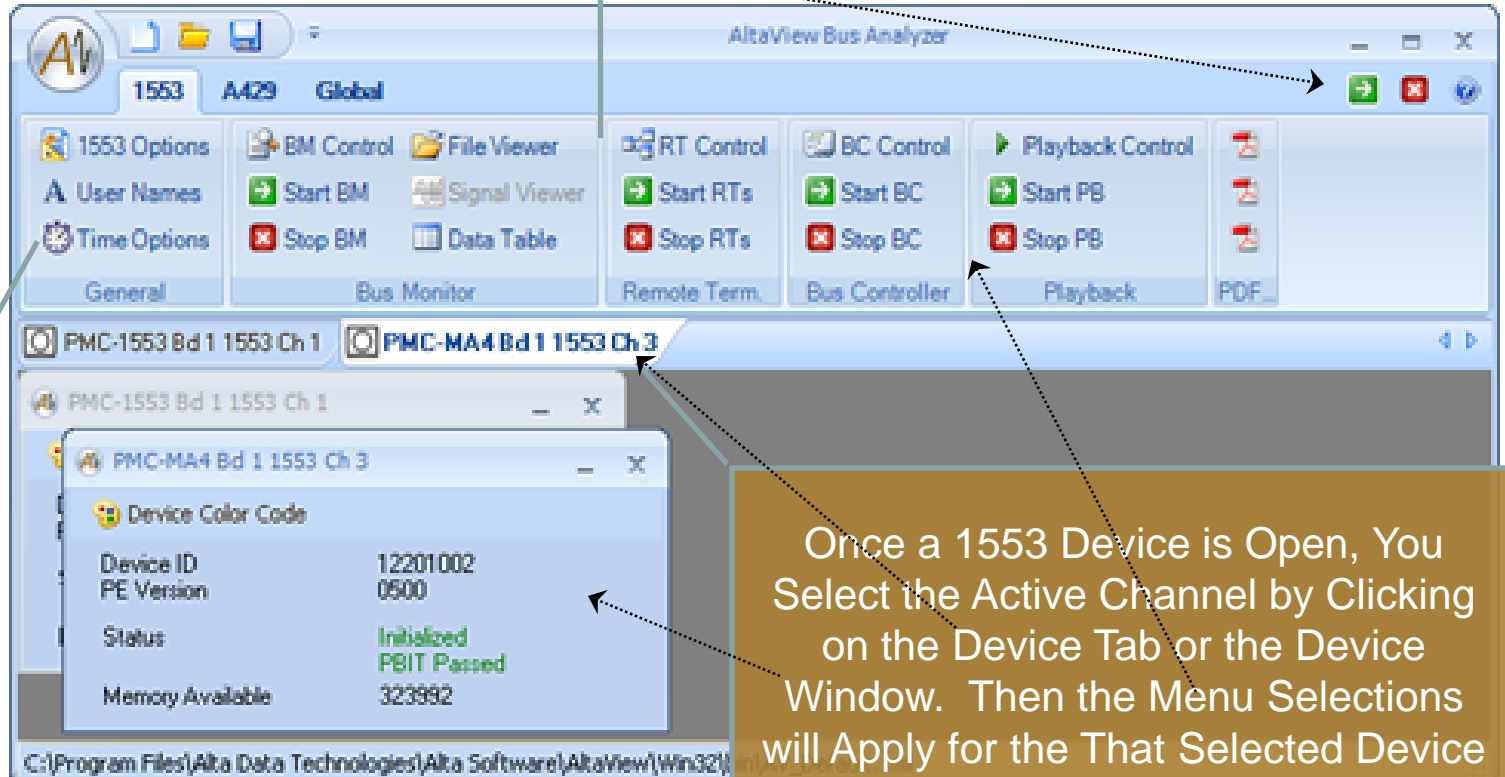
Channel Level Devices for 1553 or ARINC Devices.

Force Initialization (in case of previous crash) and IP Settings – Not Needed for Most Applications

Select a Device, Then Click "OK"

1553 Devices Opened

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



Once a 1553 Device is Open, You Select the Active Channel by Clicking on the Device Tab or the Device Window. Then the Menu Selections will Apply for the That Selected Device

Once a 1553 Device is Open, You Can Program the 1553 Options (A or B), Enter User Names for RTs and SAs, and Internal or External Time Options (Default is 1553B with Internal Time, which is good more applications)

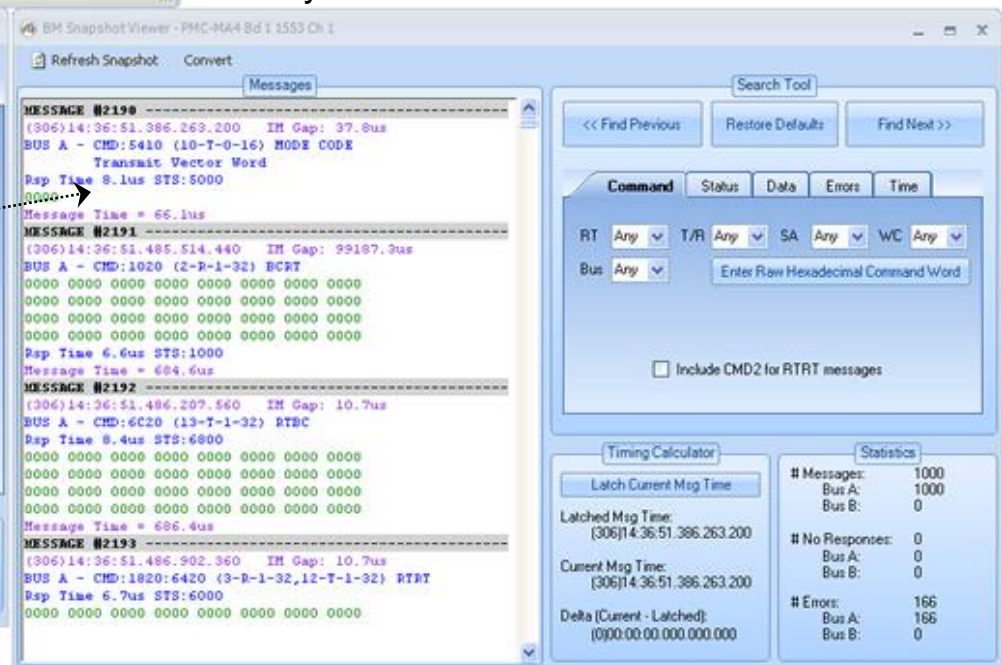
Bus Monitor: BM Control Panel



The Snapshot window provides an easy to use, yet powerful display of message packets. Easy Search Tools and ASCII File Conversions.



Auto Discovery of Packets with Sorting!



The BC Control Panel is the main monitor window of AltaView. Here you can see Activity, Message Frequencies and Statistics, Control Archiving, Triggers and Filters. This is an easy to navigate panel that provides a wealth of network information in one panel.

Only AltaView Provides Advanced Features Like Signal Capture and EU Data Tables!

All Setup in ICD XML Files for Easy Import. Size Windows and Have The Application Auto Start with Your Setup!

Simply Right Click on Any Subaddress and Get Current Value, Full Packet View, Including Current, Min and Max Frequency – Debug Software Timing.

The screenshot displays the AltaView Bus Analyzer interface with several windows open:

- Control Panels:** Includes buttons for 'Start BM', 'Stop BM', 'Start RTs', 'Stop RTs', 'Start BC', 'Stop BC', 'Start PB', and 'Stop PB'. There are also sections for 'General', 'Bus Monitor', 'Remote Term.', 'Bus Controller', and 'Playback'.
- Signal Viewer:** Shows a red waveform on a grid with a peak-to-peak voltage of +14.9v and a trough of -14.9v. A 'Trig' marker is visible on the right.
- 1553 Data Table:** A table with columns for Definition, Name, Value, and Units.

Definition	Name	Value	Units
Edit	Word 1 HEX	1234	RAW
Edit	Word 1 - BITS	0001 0010 0011 0100	RAW
Edit	Word 1 - Float	500.142211914063	Scaled
*	Edit		
- Packet View:** Shows a message with the following details:


```

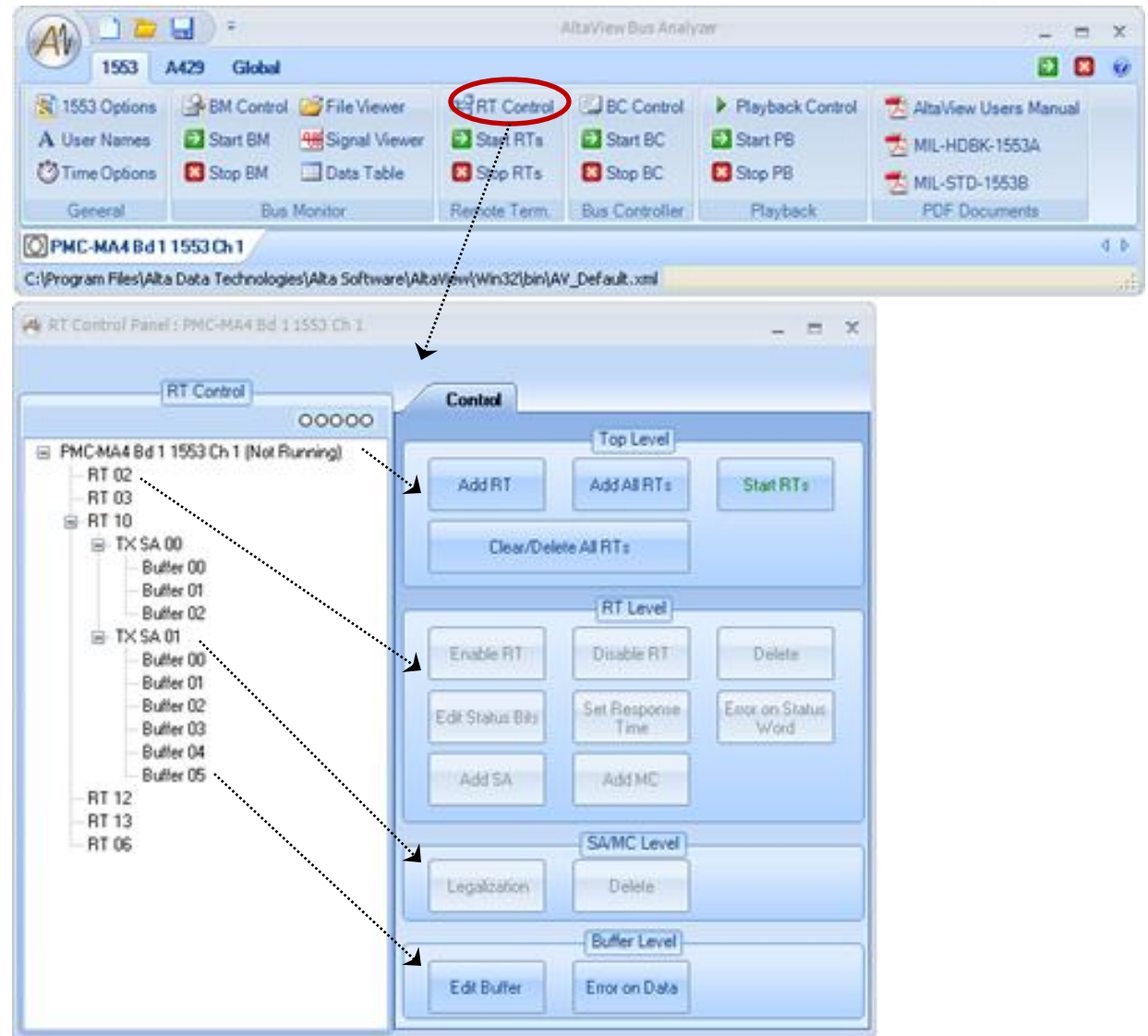
      Frequency: 5.000 Hz (Min: 0.000 Hz Max: 5.000 Hz)
      MESSAGE #53820 -----
      Time: (306)15:06:02.563.498.160 IM Cap: 10.7us
      BUS A - CMD:13433 (6-T-1-19) DTBC
      Rep Time NO RESPONSE STS:NO RESPONSE

      ERRORS: PARITY NORESP
      Message Time = 20us
      
```

Consistent, Easy to Use Presentation with Status Display on Left and Specific, Auto Detect Controls on the Right.

RT Control Panel provides Quick Setup and Edit of RTs, Subaddress and Data Buffers.

Setup is Stored in ASCII XML Files! Easy to Read and Change – Schema Provided!

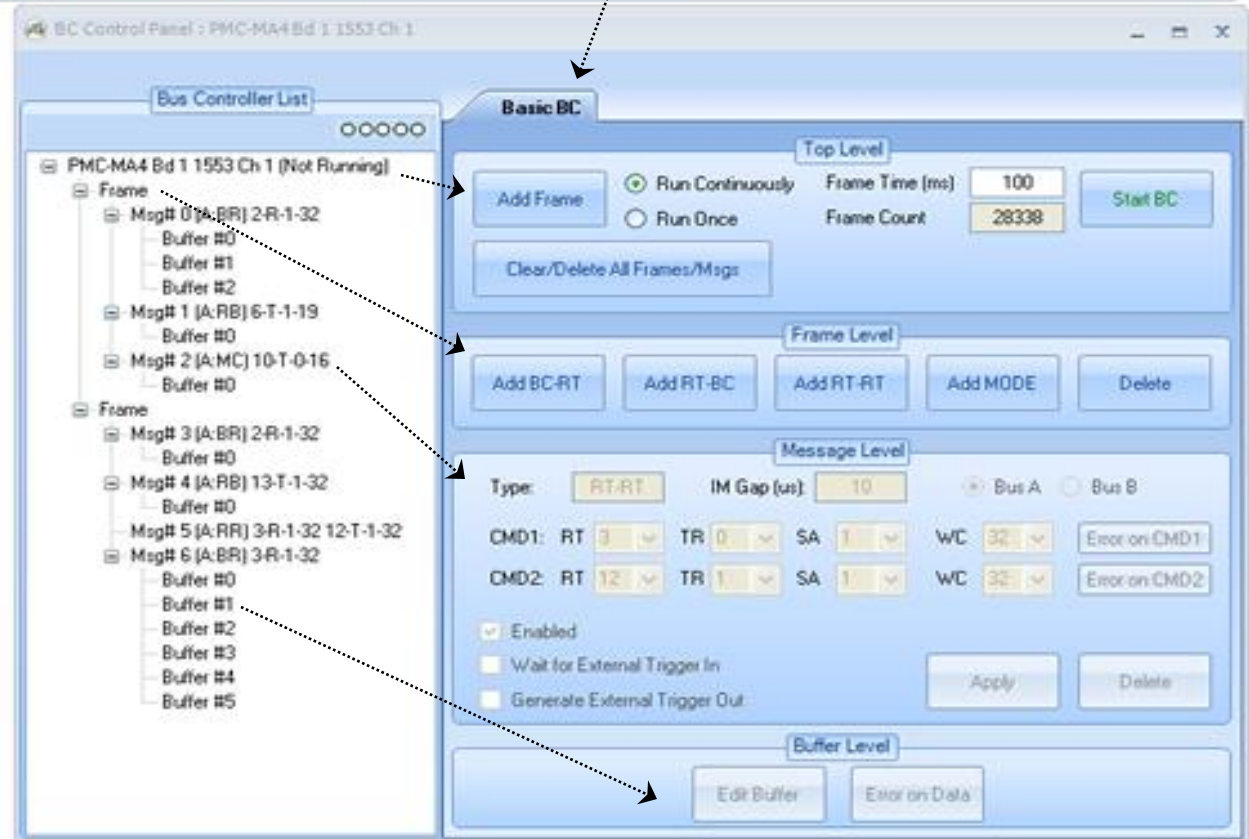


Consistent, Easy to Use Presentation with Status Display on Left and Specific, Auto Detect Controls on the Right.

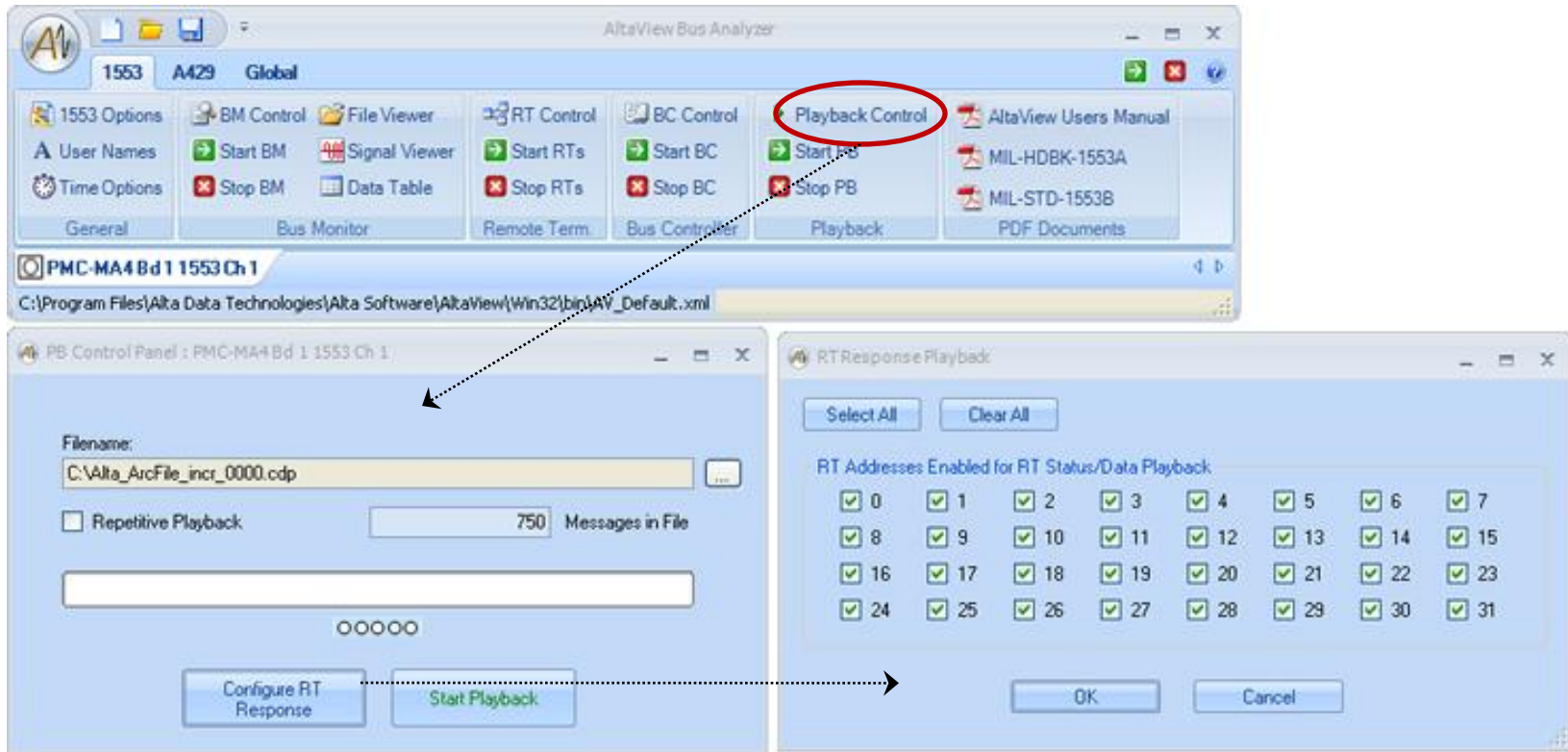


BC Control Panel provides Quick Setup and Edit of Frames, Messages and Data Buffers.

Setup is Stored in ASCII XML Files! Easy to Read and Change – Schema Provided!



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AltaView Offers True Hardware Playback – Not Software Timed Like Most of Our Competitors. This Provides Very Accurate Timing Reproduction of Archived Files. Full RT Response Filtering, too!

- Latest Generation Avionics Analyzer Using Full .NET and Ribbon Bar GUI Technologies
- XML 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!