

PBA.pro-TSM

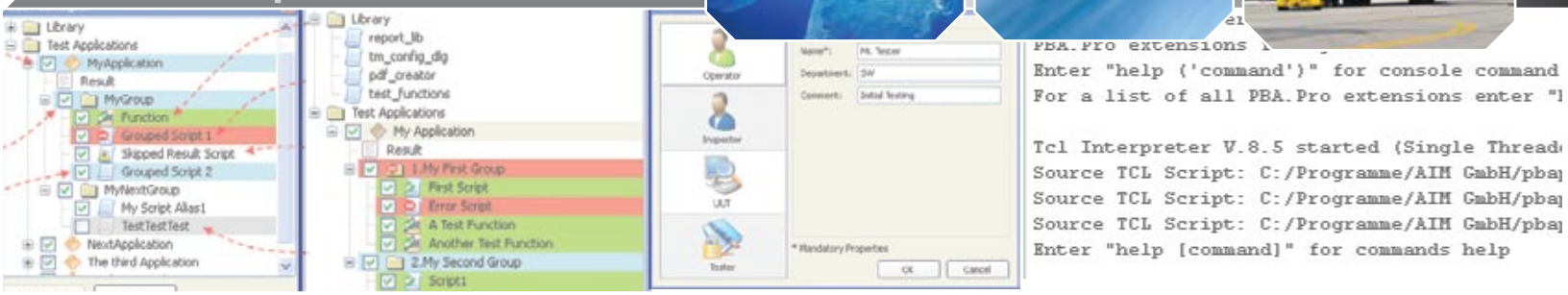


The optional PBA.pro-TSM component offers access to any PBA.pro™ object and its properties as well as to the PBA.pro™ framework via Scripting.

The PBA.pro-TSM component combines a Script Manager component and a Test Manager component and is also the interface for Remote Control over a TCP/IP connection. While the Script Manager provides a simple interface to setup and run individual test scripts, the focus of the Test Manager is on automated or semi automated test procedures including handling of configuration data, execution and evaluation of tests and documentation of test results via completely user customizable test reports.



PBA.pro-TSM



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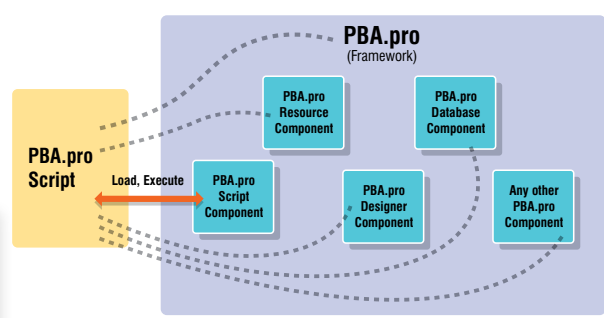
Avionics Databus Solutions

Script Manager:

The Script Manager allows access to all PBA.pro™ objects and associated properties using freely available scripting languages, Tcl and Python. PBA.pro™ uses so called 'Signals' (=events) and 'Slots' (=functions) to access properties, perform function calls or handle events of any PBA.pro™ component and its objects and the PBA.pro™ framework.



PBA.pro™ a modular, scalable and integrated approach for a broad range of avionics and more applications.



For simple Scripting applications, the Script Manager offers a Script Console and an Output Window. Furthermore Script files can be organized and configured for execution on PBA.pro™ startup, project load or just interactively.

Essentially, scripts can be used to do everything the user would do interactively:

- Setup PBA.pro™ Resource Components
- Import and Creation of Engineering Unit Databases into PBA.pro™ Database Manager
- Access & Customization of PBA.pro™ Framework
- User Interaction (message boxes, input dialogs)
- Interactive Message Modification
- Evaluation & Export of recorded Data into User Definable Formats
- Execution of Test Cases and Simulations
- Building user dedicated displays via the PBA.pro™ Designer
- Optional Script packages are available off-the-shelf to support:
 - MIL-STD-1553 Protocol & Waveform Validation in accordance with the AS4112 RT Production Test Plan
 - ARINC664 End System Compliance Test
 - ARINC664 Switch Compliance Test



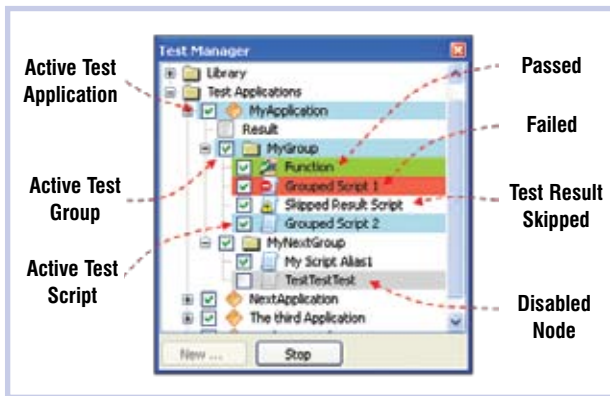
Test Manager:

The Test Manager provides a structured approach to setup and run script based test procedures. It consists of a Configuration Dialog, a Library function and a Test Application node.

The Configuration Dialog can be used to setup and specify configuration information such as Operator, Inspector, Tester and UUT (Unit Under Test) data.

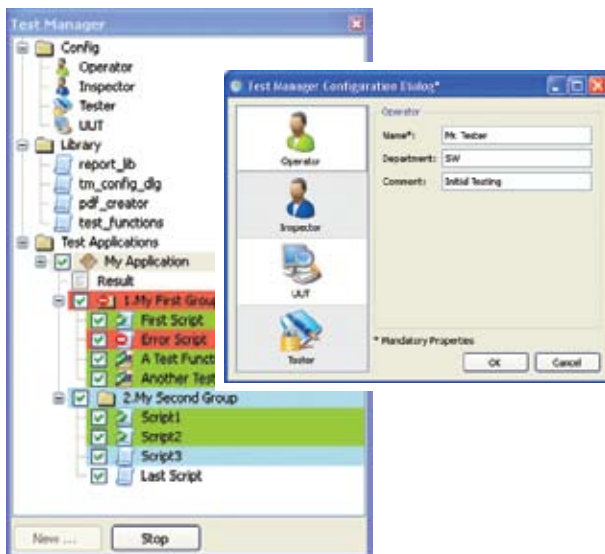
The Library node holds default libraries for report generation and configuration dialog and can be extended by the customer with additional project specific script libraries as well as to support e.g pdf report output formats.

The Test Application node is the root node for organizing one or more test applications which can be structured accordingly into test groups and test scripts.



The Test Manager User Interface provides following functionality:

- Setup of configuration data (Operator, Inspector, Tester, UUT)
- Manual, Semi Automatic or Fully Automated Test Sequences
- Automatic generation of test reports & logs
- User configurable test reports (ASCII, XML, PDF Formats)
- Automatic or manual test result evaluation



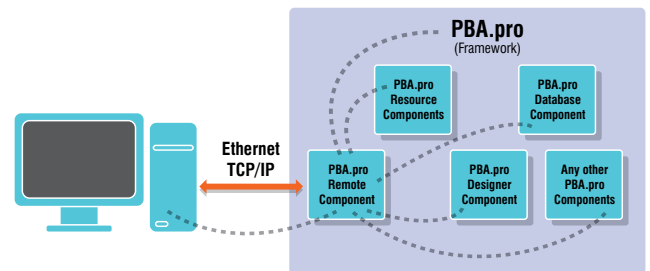
Remote Control:

PBA.pro™ can be controlled and monitored from a client host running on a different PC connected via TCP/IP network. The command set which is supported by the remote scripting interpreter is a subset of what is supported by the local script interpreters like Python and Tcl. A client can connect to the server by using a line based TCP client like Netcat, by using the GUI sample qtguiclient or by writing a custom application based on the **PBA.pro™** client library. (The GUI sample and client library are part of the standard **PBA.pro™** installation) library.



The Remote Control functionality offers:

- Full access to all **PBA.pro™** Objects and Framework (similar to 'local' Scripting)
- Methods for Embedding **PBA.pro™** as a part of more complex Test Systems/ Suites
- Maximum Flexibility for Remote Applications



PBA.pro™ scripting improves efficiency and helps to reduce time and cost for testing. To assist our clients to take full advantage of the **PBA.pro™** Test & Script Manager component, AIM offers training courses conducted by expert trainers which can be adapted to individual scripting needs. If requested, AIM can offer special script development service as an optional costed item.

Ordering Information

PBA.pro-TSM Test & Script Manager

Including Support for Tcl and Python Scripting Languages

AIM Office Contacts:

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