TYX CORPORATION

Productivity Enhancement Systems

PAWS Studio Release Notes

Version 1.36.0

June 19, 2008

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1 Paws Developer's Studio

Version 1.36.0
Release date: June 19, 2008

1.1 Critical Items

1.2 Known Limitations

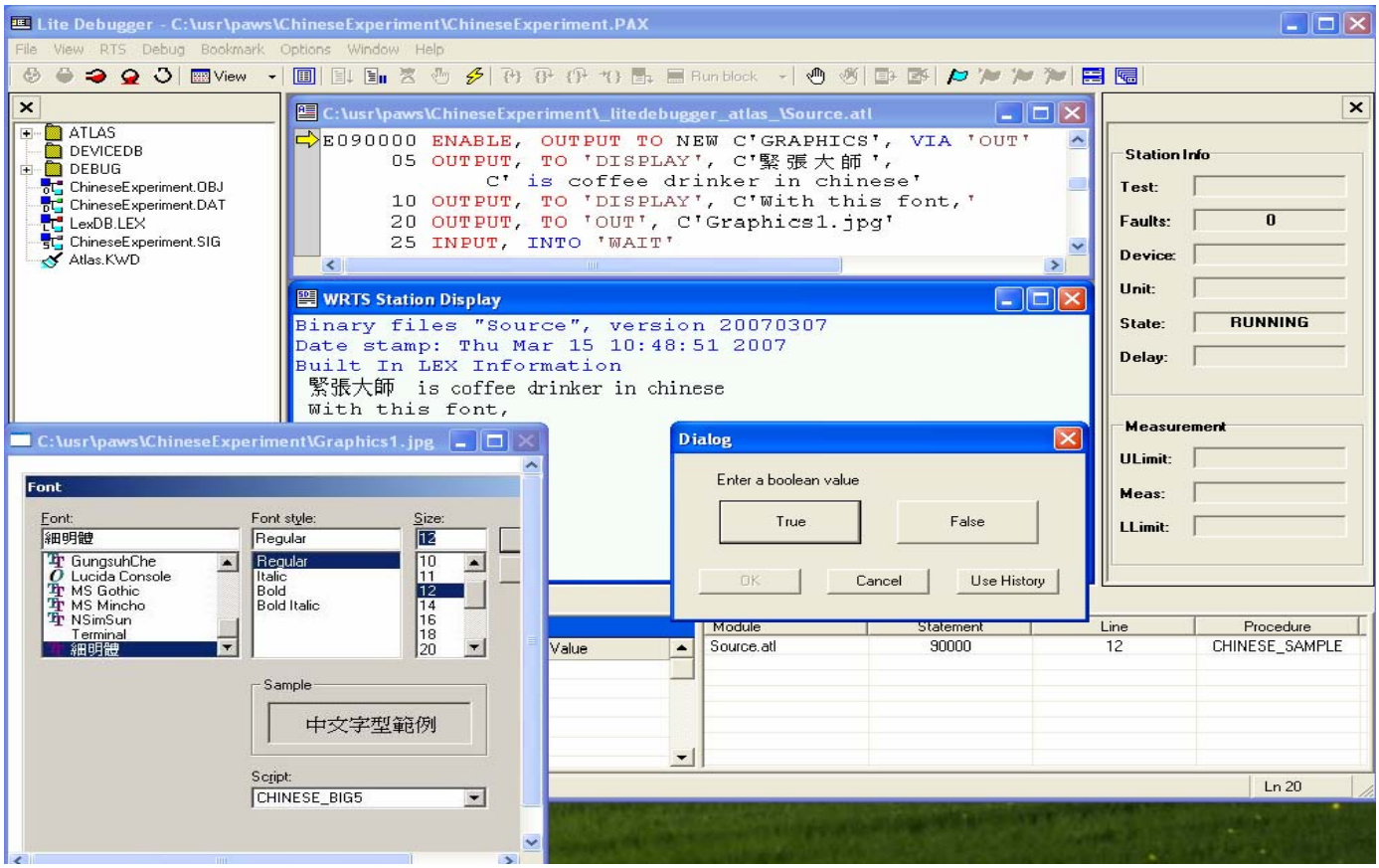
1.2.1 PAW file version update

Due to addition of 1641 Module, and associated 1641cl files in the PAWS Project tree the PAW file version has been updated. Customers opening (migrating) a PAWS projects with this PAWS software would seamlessly translate their PAW file versions. PAW files translated by this version of PAWS studio cannot be opened by older versions of PAWS studio. For flexibility customers may backup their PAW file (if needed).

1.3 Enhancements

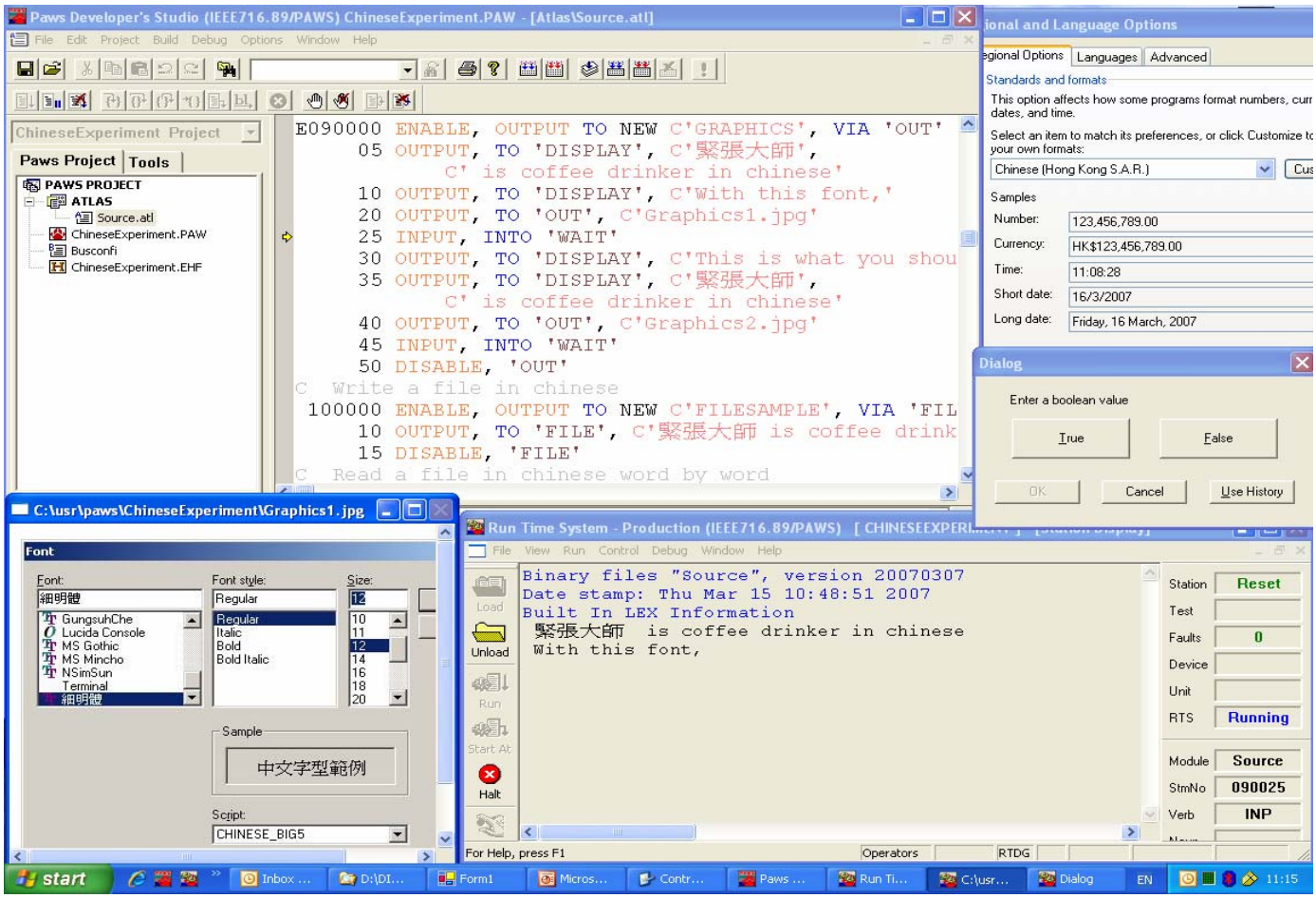
1.3.1 GLOBALIZATION of PAWS Developer Studio and RTS [UNICODE support]

With this release, PAWS Developer Studio, LiteDebugger and the Run Time System are distributed as Unicode compliant applications. Users may now provide user message text in their own locale (German, Traditional Chinese, Korean etc…) within ATLAS code for compilation and display from within the Run Time System, or logging in the Data Logger. Thus users can now benefit from using PAWS Developer Studio, LiteDebugger and the Run Time System within their specific “Locale Model”, use language specific “Input/Output/Display” feature and generate “Multilanguage User Interface”.

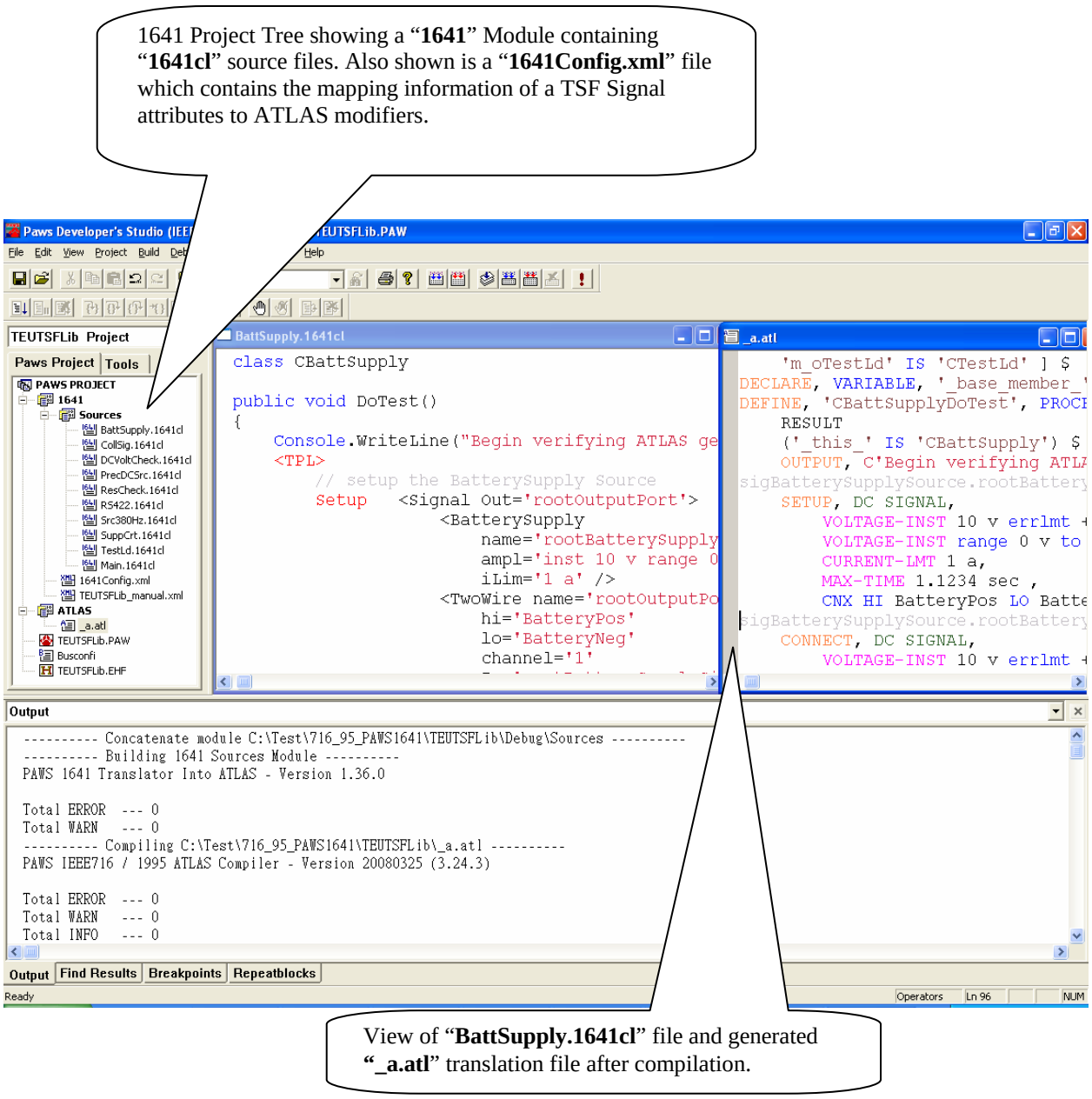


Example above displays the LiteDebugger debugging an ATLAS source program containing Tradition Chinese messages. It also displays the WRTS Station Display showing the traditional Chinese characters as a result of the OUTPUT, TO ‘DISPLAY’ ATLAS code.

Below picture demonstrates the PAWS Developer Studio and Run Time System views of the example above.



1.3.2 1641 carrier language file support



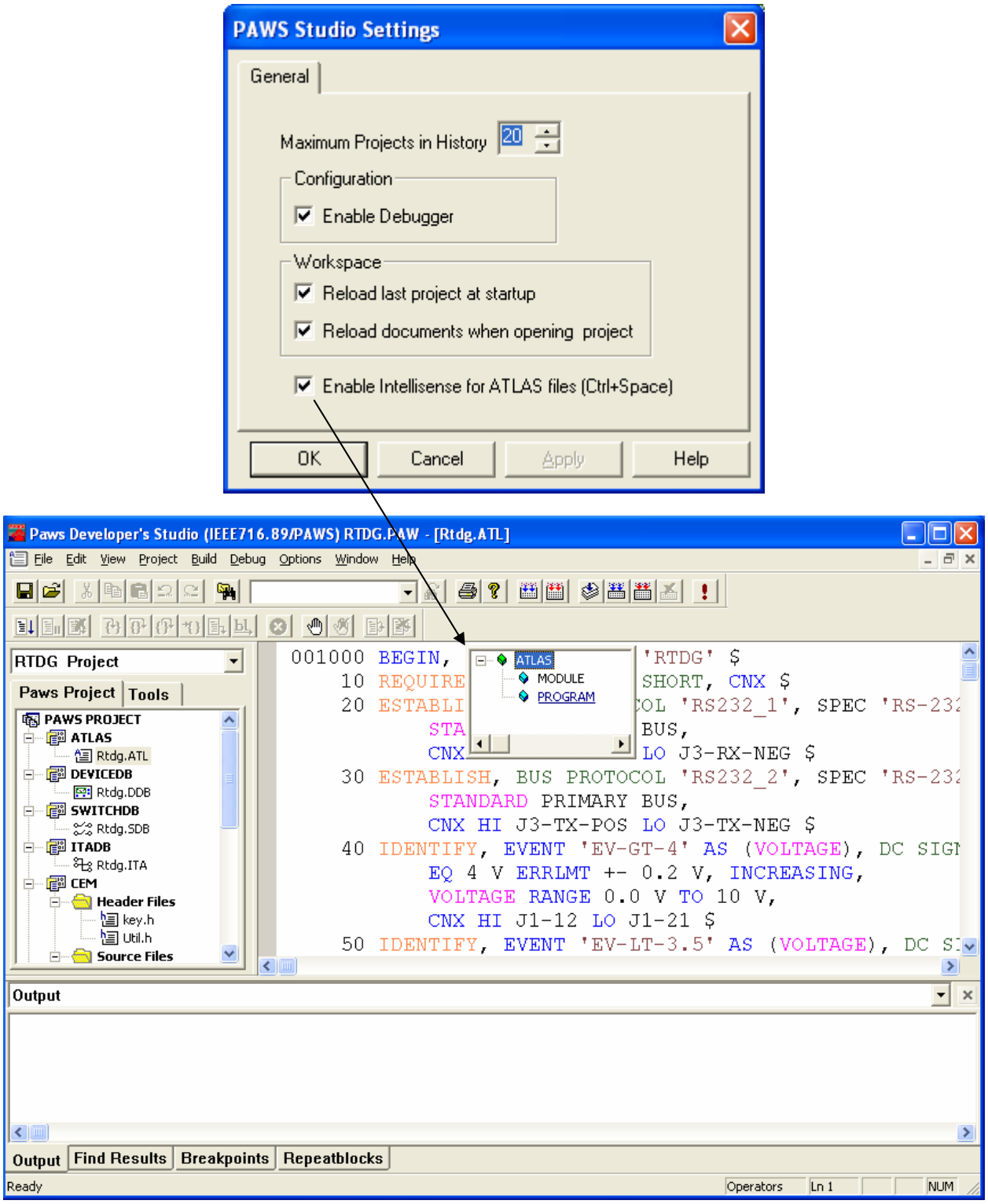
PAWS Developer Studio has been enhanced to support 1641 carrier language files and their respective translation to ATLAS code. The above is achieved by adding a new "**1641**" Module in PAWS Developer Studio. "**1641cl**" (C# like language) source files of 1641 can be added under '**Sources**' sub module of a 1641 module. Any configuration files (xml files) which describe the translation of 1641 TPL Signal attributes to equivalent ATLAS modifiers are added alphabetically under the "**Source**" sub module (as in 1641Config.xml shown above).

1641 source files are concatenated and compiled in the sequence they are added under the "**Source**" sub module. This compilation sequence can be adjusted via a drag/drop or using the "**Settings**" option of "**Sources**" sub module. It is however required that the 1641 file containing the **main()** function be the last file in the compile sequence.

Further information related to 1641 can be obtained for document **STD_AnnexG_CodeSamples.doc** [Found in location "**<usr>\tyx\bin**" of PAWS Studio installation].

1.3.3 ATLAS Intellisence (PAWS Lexisense) for IEEE716.89 Subset

ATLAS Intellisence (PAWS Lexisense) is made available for the IEEE716.89 Subset. It can be activated for a project using PAWS Studio menu option "**Options**" → "**Studio**" and checking "**Enable Intellisense for ATLAS files**". Then restart PAWS Studio. Now in the ATLAS files to receive intellisence hints use (CTRL + Space) keys together. A pop up will display intellisence options in a tree control. Select the option with clicking on a leaf node (or ENTER via keyboard). Alternately use the ESC key to continue without selection.

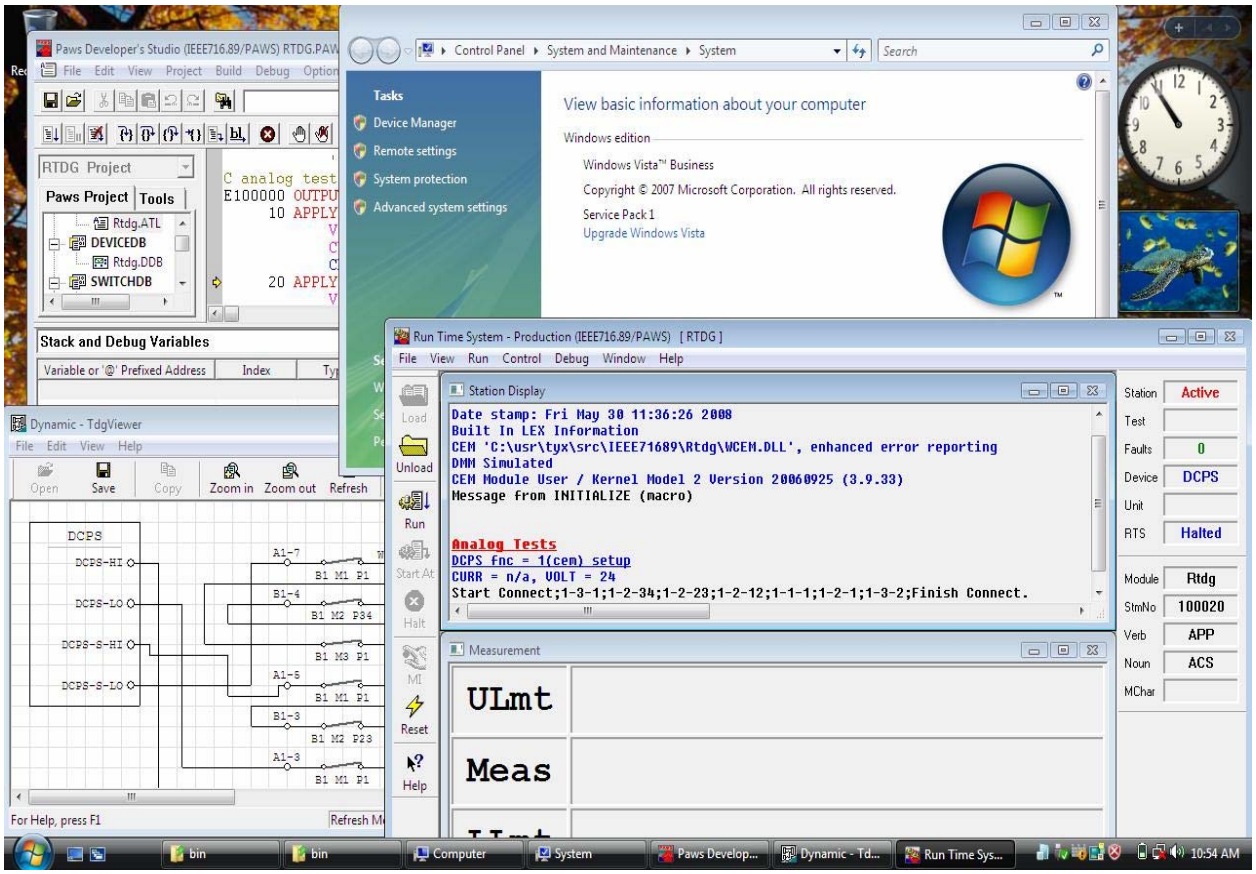


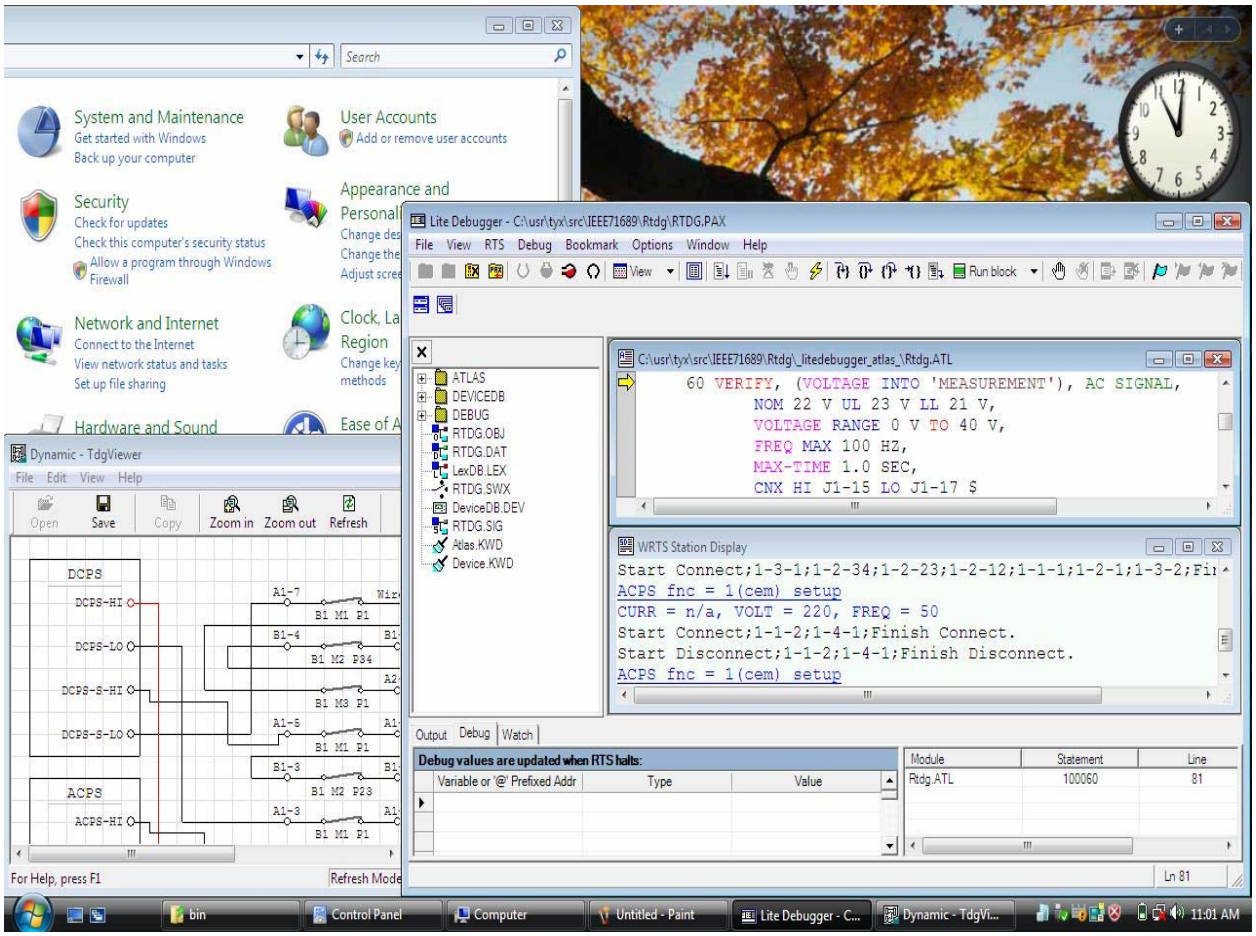
1.3.4 Strong Named Assemblies and Versioning

With this Release a number of commonly referenced RCW (Runtime callable wrappers) are strongly named. These assemblies are registered in the GAC (Windows Global Access Cache area) with their specific versions, public key and locale information. Strong naming these assemblies thus provides benefits such as – guaranteed uniqueness, multiple side by side versions co-existing and strong .NET framework security and integrity checks. A few of these assemblies may be registered on your computer:-

- ATLINTEROPINTERFACESLib
- ATMLTestResultsLogger
- ATMLTestResultsLoggerEx
- COMUTILLib
- DATALOGGERLib
- PAWSDEBUGGERLib
- RtsAxLib
- RTSIOLib
- SERVERPROPERTYSHEETLib

1.3.5 Windows VISTA (service pack 1) compliant





TYX Applications of PAWS Developer Studio, Run Time System, TDG Viewer, LiteDebugger are now Windows VISTA (service pack 1) compliant. This allows for TYX applications to run on a sturdy and security enhanced Windows VISTA environment. The software can be installed on both 32 bit and 64 bit Windows VISTA operating systems. Windows VISTA takes care of seamlessly installing, integrating and running PAWS Studio and Run Time System components.

1.4 Problem Reports

2 Run Time System

Version 1.36.0
Release date: June 19, 2008

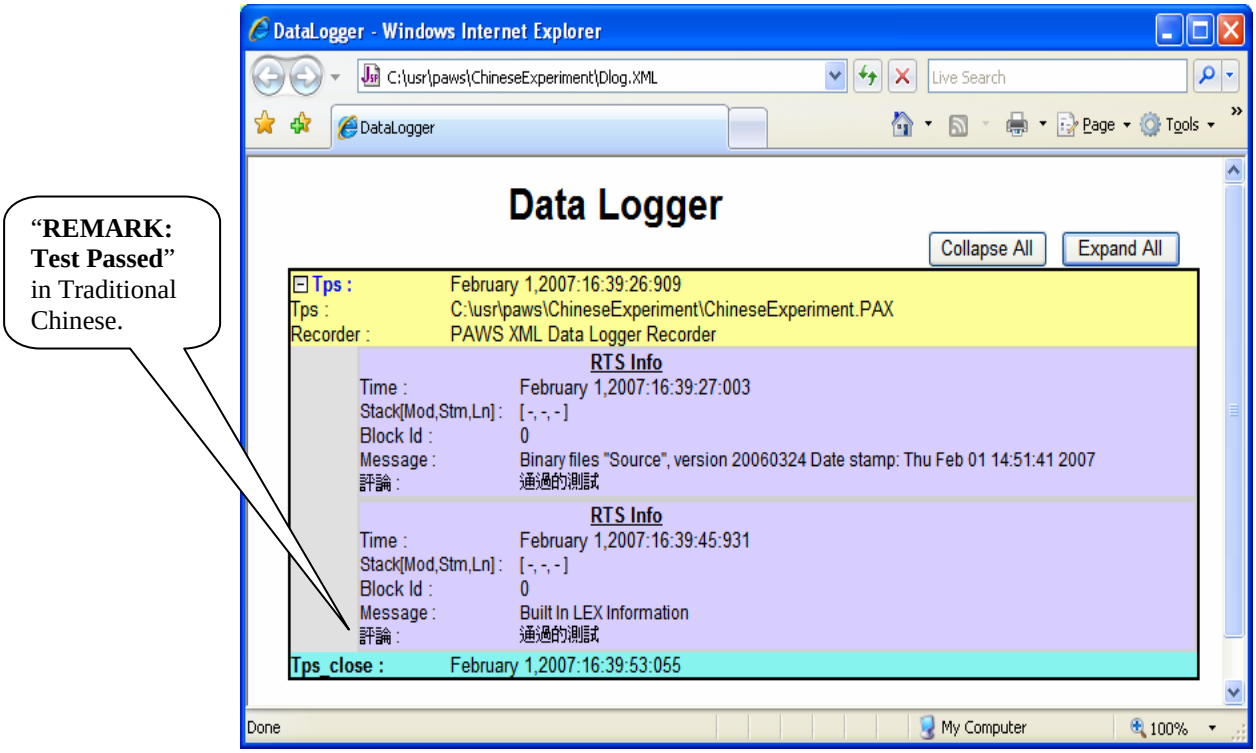
2.1 Critical Items

2.2 Known Limitations

2.3 Enhancements

2.3.1 DataLogger [Unicode support]

Users may now provide user message text in their own locale (German, Traditional Chinese, Korean etc…) within ATLAS code for compilation and display from within the Run Time System, or logging in the Data Logger. As shown in picture below, Data Logger has recorded "**Remark**" as "**Test Passed**" in Traditional Chinese.

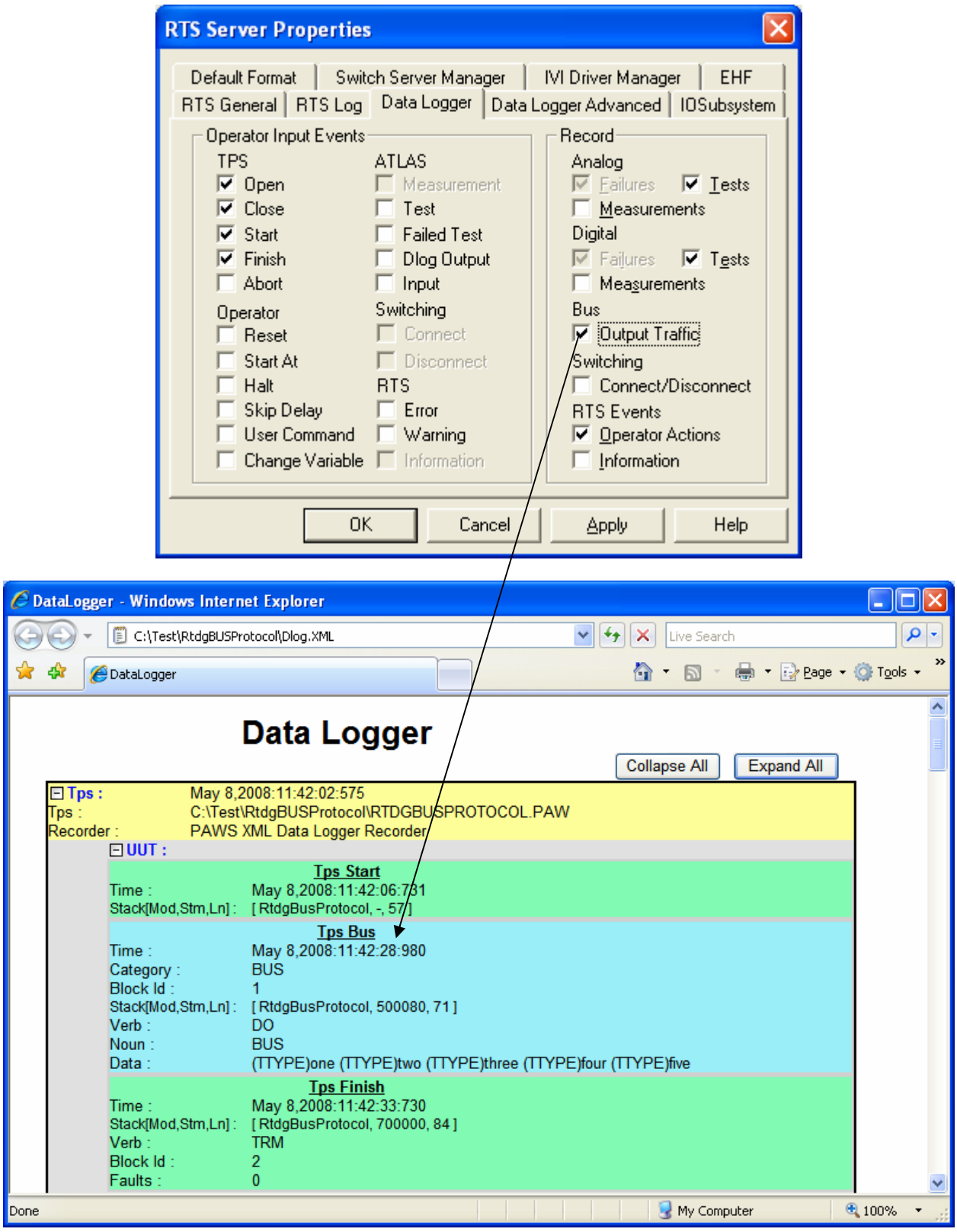


2.3.2 DataLogger Enhancement for logging Bus Traffic

Run Time System has been enhanced to recognize BUS TRAFFIC information received from the CEM drivers and direct it to the DataLogger for logging. This can be controlled by checking/unchecking the "**Output Traffic**" check box in the DataLogger tab of Run Time System.

In the unloaded project state click "**Control**" → "**Options**", then switch to the "**Data Logger**" Page, you should find the "**Bus**" section and "**Output Traffic**" check box to configure logging of outgoing BUS TRAFFIC information.

This option may also be used to create an "**EHF file**" with **BUS TRAFFIC** information during a production mode run and then reuse this file during simulation mode.


RTS Server Properties
Default Format
Switch Server Manager
IVI Driver Manager
EHF
RTS General
RTS Log
Data Logger
Data Logger Advanced
IOSubsystem
Operator Input Events
TPS
Open
Close
Start
Finish
Abort
ATLAS
Measurement
Test
Failed Test
Dlog Output
Input
Operator
Reset
Start At
Halt
Skip Delay
User Command
Change Variable
Switching
Connect
Disconnect
RTS
Error
Warning
Information
Record
Analog
Failures
Tests
Measurements
Digital
Failures
Tests
Measurements
Bus
Output Traffic
Switching
Connect/Disconnect
RTS Events
Operator Actions
Information
OK
Cancel
Apply
Help
DataLogger - Windows Internet Explorer
C:\Test\RtdgBUSProtocol\Dlog.XML
Live Search
DataLogger
Page
Tools
Data Logger
Collapse All
Expand All
Tps : May 8,2008:11:42:02:575
Tps : C:\Test\RtdgBUSProtocol\RTDGBUSPROTOCOL.PAW
Recorder : PAWS XML Data Logger Recorder
UUT :
Tps Start
Time : May 8,2008:11:42:06:731
Stack[Mod,Stm,Ln] : [RtdgBusProtocol, -, 57]
Tps Bus
Time : May 8,2008:11:42:28:980
Category : BUS
Block Id : 1
Stack[Mod,Stm,Ln] : [RtdgBusProtocol, 500080, 71]
Verb : DO
Noun : BUS
Data : (TTYPE)one (TTYPE)two (TTYPE)three (TTYPE)four (TTYPE)five
Tps Finish
Time : May 8,2008:11:42:33:730
Stack[Mod,Stm,Ln] : [RtdgBusProtocol, 700000, 84]
Verb : TRM
Block Id : 2
Faults : 0
Done
My Computer
100%

2.4 Problem Reports

2.4.1 08032 & 08033

These problem reports related to the GraphicsViewer for ESTS and IFTE subsystems have been fixed in this Release. GraphicsViewer version “3.11” is released with the changes for the fix.

2.4.2 08017

Data Logger enhancement of logging BUS TRAFFIC is now trapped by the EHFDataLogger component and logged in production mode. Customers complaint is thus resolved.