

PAWS Studio
Release Notes

Version 1.41.0 December 15, 2016

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1 Paws Developer's Studio



Version 1.41.0

Release date: Unknown, 2016

1.1 Critical Items

1.1.1 PAWS and WRTS sources built with Visual Studio 2012 v.110; No support for Windows XP.

Starting with PAWS / WRTS 1.41.0 we are stopping our support for Windows XP. Please be aware that PAWS and WRTS 1.41.0 may not be fully functional under Windows XP!

1.2 Known Limitations

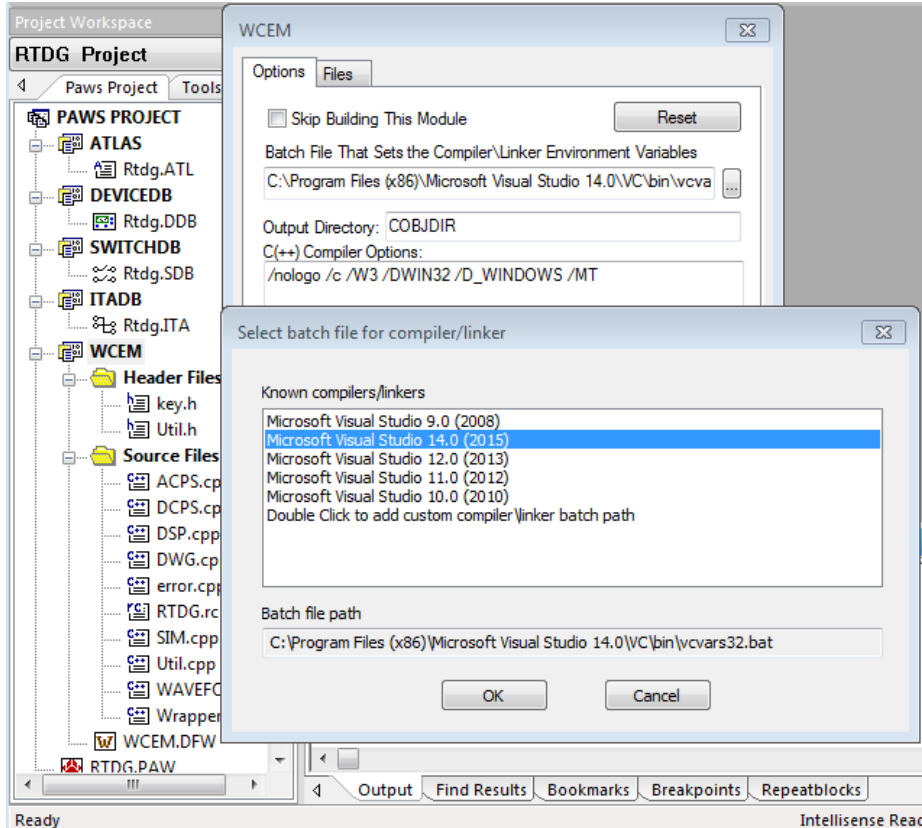
1.2.1 No known limitations addressed in this release

No limitations

1.3 Enhancements

1.3.1 CEM Drivers Can Be Built With Visual Studio 2015 Compilers From Paws Studio

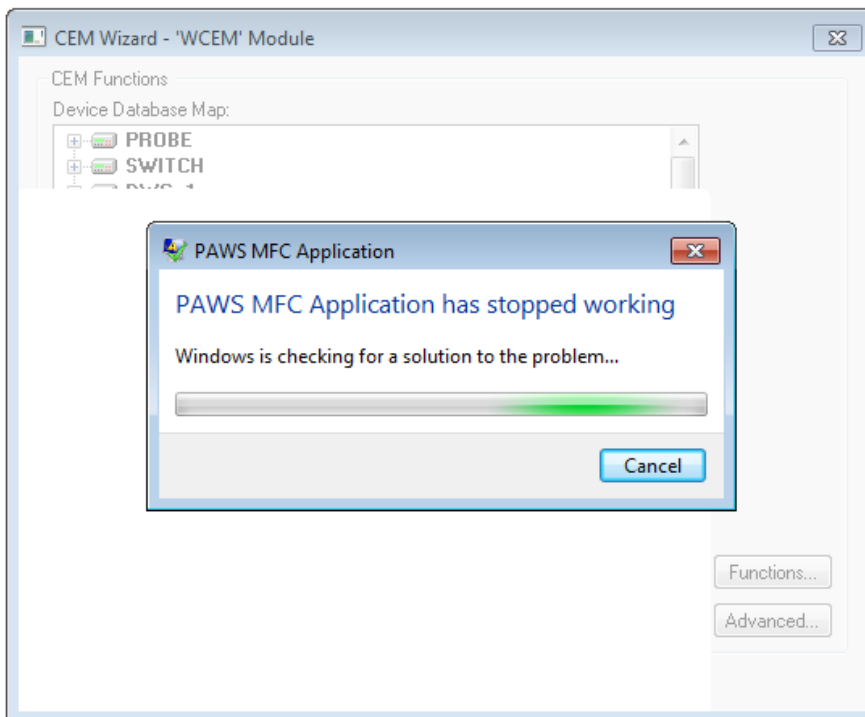
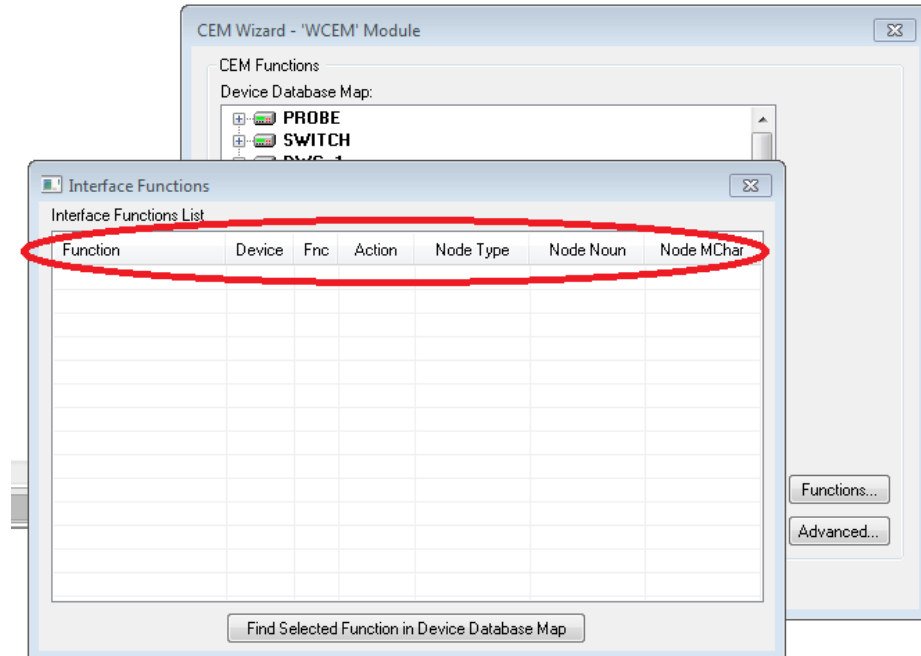
This version of Paws Studio is now allowing its CEM modules to be built with C/C++ compilers belonging to Microsoft Visual Studio 2015:



1.4 Problem Reports

1.4.1 Clicking on empty CEM Interface Function List causing PAWS to crash.

In the previous version of PAWS Studio toggling between the headers (i.e. Function, Device, etc.) on an empty Interface Function List was causing the Studio to crash.



This bug is fixed in the current version.

1.4.2 Intellisense Module improvements (BugID 1639)

The previous version of Paws Studio Intellisense Module was unable to parse DECLARE Atlas statements with INITIAL blocks that contained more than 500 values, due to abnormal memory consumption. This problem has been fixed.

2 Run Time System



Version 1.41.0

Release date: Unknown, 2016

2.1 Critical Items

2.1.1 PAWS and WRTS sources built with Visual Studio 2012 v.110

Starting with PAWS / WRTS 1.41.0 we are stopping our support for Windows XP. Please be aware that PAWS and WRTS 1.41.0 may not be fully functional under Windows XP!

2.2 Known Limitations

2.2.1 No known limitations addressed in this release

No limitations

2.3 Enhancements

2.3.1 Filtering CEM preamble messages in RTS

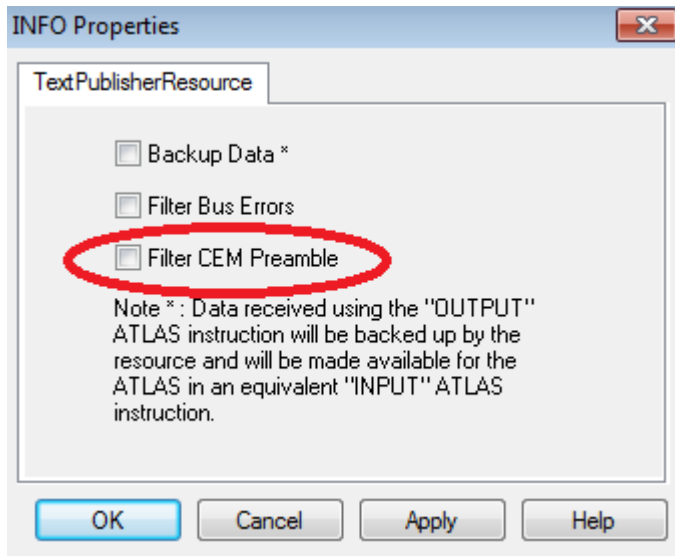
In the previous version when RTS was loading CEM dll(s) the CEM preamble messages were displayed by default in the RTS Station Display. In this version there is an option added in the “INFO” resource which allows to suppress these messages.

```
Station Display
Date stamp: Tue Jul 03 08:42:56 2012
Built in LEX Information
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenBus_1553.dll', enhanced error reporting
CEM 'C:\usr\tyx\Sub\IEEE716.89\VIPERT\Station\WcenBUS_COM.dll', enhanced error reporting
CEM 'C:\usr\tyx\Sub\IEEE716.89\VIPERT\Station\WcenBUS_COM.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenBus_Ethernet_Gigabit.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenBUS_PciSerial.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenBus_MicCan.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenBus_Cddi.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenBus_Tcin.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenCntr.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenDcPs.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenDnm.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenRfGen.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenDwg.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenDso.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenRfGen.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenArb_Gen.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenSrs.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenRf_Cntr.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenRf_MeasAn.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenRf_Pwr.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenVeo2.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenSwitch.dll', enhanced error reporting
CEM 'C:\usr\tyx\sub\IEEE716.89\VIPERT\station\WcenSwitch.dll', enhanced error reporting
CEM Module User / Kernel Model 2 Version 20040524 (E35) (3.9.31)
CEM Module User / Kernel Model 2 Version 20040524 (E35) (3.9.31)
CEM Module User / Kernel Model 2 Version 20040524 (E35) (3.9.31)
```

In the current version the user can disable these messages by following those steps:

- Open WRTS
- Without loading the project navigate to Control\Options...\RTS Property Pages\IO Subsystem

- Highlight the “INFO” resource and click on Properties button
- You should see the following INFO Properties page:



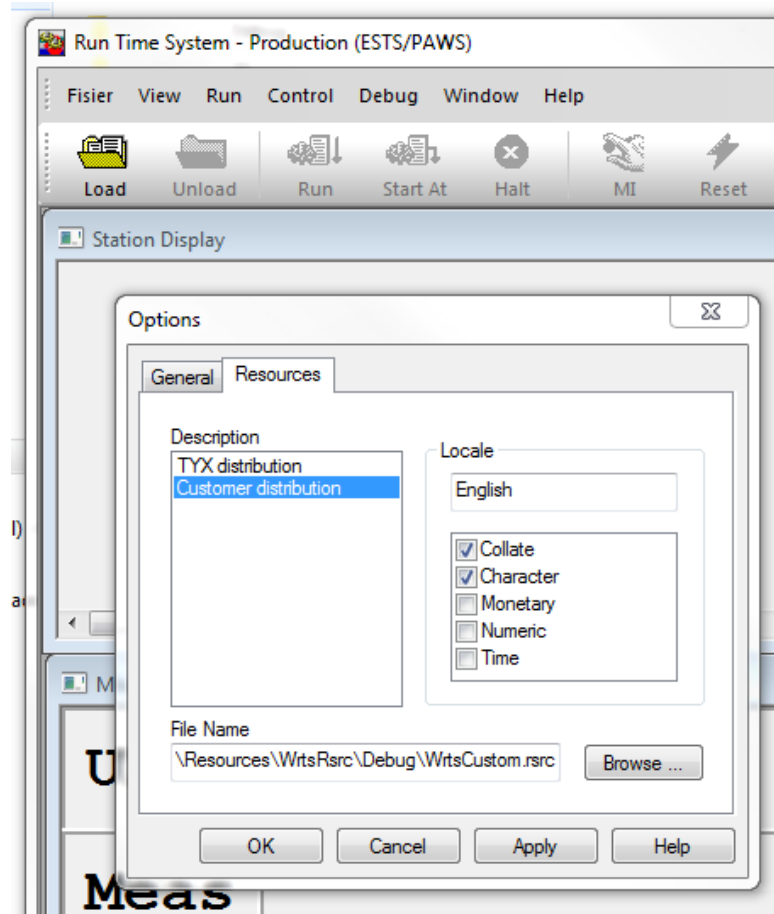
- Check the “Filter CEM Preamble” box
- Close the dialogs and load the project from the main WRTS window.
- At this point all the CEM preamble messages should not be visible from the WRTS display.

2.4 Problem Reports

2.4.1 RTS cannot use the rsrc file (TaskID 1497)

The rsrc file built with the Visual Studio Solution that Astronics provides in C:\usr\Tyx\Rssources\WrtsRsrc had a bug in a previous version and RTS was not able to use it after it has been loaded. The following steps were leading to manifesting this issue:

- Load Visual Studio Solution present at C:\usr\Tyx\Resources\WrtsRsrc. This solution provides support for translation into other languages the main menus and dialogs of RTS.
- Build the project in Debug mode. File WrtsCustom.rsrc is generated that the RTS can load from its Resource Property Page as shown below.



- Have RTS load WrtsCustom.rsrc in Control|Options|Resources Tab|Browse|Apply.
- Close RTS, Open it again.
- When Control|Options was chosen, RTS displays "Attempted an unsupported operation".

This bug is fixed now.

2.4.2 RTS-DataLogger has memory leak fixed (BugID 1548)

This error went un-notified for a long time due to its small leak – only present when the DataLogger is enabled. However, abnormal memory usage becomes a problem, when large arrays of elements are fetched from CEM. This version of RTS has this issue fixed.

2.4.3 LicMgr.dll Nevada-flavor allows common licensing for different Windows Users (TaskID 1503)

When Nevada-flavored LicMgr is enabled, the licensing data set by ConfigureLicense.exe is within reach by all Windows users.

2.4.4 RTS File Resources (TaskID 1498, 1503)

All file resources are opened with the share flag `_SH_DENYNO`, instead of `_SH_DENYRW`. As a result of this, the ATLAS file resources are available for read and write from CEM or other processes while they are under the control of RTS. This change intends to mimic on Windows 7 and newer the security moderation that Windows XP offered for file descriptors.

3 Paws Compilers All Subsets



Version 1.41.0

Release date: Unknown, 2016

3.1 Critical Items

3.1.1 No critical items addressed in this release

No critical items

3.2 Known Limitations

3.2.1 No known limitations addressed in this release

No known limitations

3.3 Enhancements

3.3.1 No enhancements addressed in this release

No enhancements

3.4 Problem Reports

3.4.1 No problem reports addressed in this release

No problem reports

4 Paws Compilers CASS Subset



Version 1.41.0

Release date: Unknown, 2016

4.1 Critical Items

4.1.1 No critical items addressed in this release

No critical items

4.2 Known Limitations

4.2.1 No known limitations addressed in this release

No known limitations

4.3 Enhancements

4.3.1 No enhancements addressed in this release

No enhancements

4.4 Problem Reports

4.4.1 No problem reports addressed in this release

No problem reports