

# PragmaDev Studio V5.6 integrated with the latest release of FreeRTOS.

**Paris - France - January 5<sup>th</sup>, 2021** - *PragmaDev Studio* is the best tool suite to specify and design complex communicating software. V5.6 updates its code generation templates with V10.3.1 of FreeRTOS

FreeRTOS is a small and simple kernel that has been ported to 35 microcontroller platforms. Regularly listed as one of the favorite operating system in Aspencore Embedded Markets Study, FreeRTOS includes a kernel and a growing set of libraries suitable for use across all industry sectors.

SDL, the core modeling notation within PragmaDev Studio, maps directly with any Real Time Operating System. The common services provided by the operating system (messages, concurrent execution, timers...) have a graphical representation in SDL and the same semantics.

*"SDL and SDL-RT remain the best modeling languages for applications running on top of a Real Time Operating System. The different integrations provided within our distribution ease deployment on the final target."* says Emmanuel Gaudin, PragmaDev Founder & CEO.

Among the other main new features are:

- **Support of Wayland**  
PragmaDev Studio now supports Wayland on Linux platforms.
- **Windows scaling**  
PragmaDev Studio has been made "DPI aware" internally in order to scale fonts properly on Windows. All icons are also automatically adapted to the GUI scaling factor. This is particularly useful on laptop computers that use a high zoom factor.
- **External procedures**  
The model simulator can call external procedures written in any other language through XML-RPC. If the procedure is written in C the XML-RPC wrapper can now be generated automatically. The convention is the same as the one for code generation, so the same implementation can be used in simulation and on target.
- **Requirements editor**  
The requirements viewer is now also an editor that can add or remove requirements.
- **Direct PDF export**  
PDF is now available as a format for export or publication. Menu items have also been added to print all diagrams in a PDF file.
- **Improved simulation performance**  
Several performance enhancements have been introduced, including a general performance boost by changing the garbage collection frequency.

### **About PragmaDev**

*PragmaDev* is a privately held company based in Paris France that provides two sets of tools: PragmaDev Process to describe and verify business processes, and PragmaDev Studio to specify and design communicating systems: PragmaDev customers include Airbus, Nokia, Renault, the French Army, Wipro, ST-Microelectronics, Korean Telecom, the European Space Agency, Toshiba, and LG Electronics.

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