



Cognovo demonstrates SDM Development Platform at MWC for soft modem validation and IOT

Industry partnerships accelerate adoption

Mobile World Congress, Barcelona, Spain. Cambridge, UK – 9th February 2011 – Cognovo announces the availability of its SDM Development Platform for integration, validation and interoperability testing of software defined modems created using the Cognovo software development kit. Cognovo's LTE soft modem will be on demonstration at Mobile World Congress in Barcelona by appointment.

Cognovo has partnered with 4M Wireless and Rohde & Schwarz to provide licensees and partners with an end-to-end integration and validation platform for Software Defined Modem development.

Once Layer 1 control and data (PHY) processing has been integrated and validated against reference tests vectors using the Cognovo Software Development Kit, developers can move immediately to protocol stack integration and conformance testing with the R&S CMW500 wideband radio communication tester from Rohde & Schwarz.

The Software Defined Modem from Cognovo can support many cellular and other wireless interfaces without the addition of specific ASIC hardware, being configured only by software. It is dimensioned to support all standards up to LTE.

Cognovo's LTE soft modem demonstration at this year's Mobile World Congress features the SDM Development Platform running an LTE downlink, integrated with the 4M Wireless LTE protocol stack and tested against the R&S CMW500. The combination of Cognovo's depth of real-time trace with the CMW500's breadth of test capability enables rapid and full IOT and conformance testing.

"After we spun the company out of ARM we focused on completion of the Modem Compute Engine and associated modem development tools. Now that we are delivering these to customers and partners our focus is on supporting customers' design flow and validation," said Gordon Aspin, CEO at Cognovo. "One of the key benefits of the SDM approach is that the modem can be completely developed and validated before silicon has even taped out and this is what the SDM

Development Platform enables.”

Cognovo's SDM-DP features a Modem Compute Engine (MCE) with external I/O for debug, trace and test peer connectivity. The MCE implementation is functionally equivalent and cycle accurate to the customers' own target silicon and enables both real time and non-real time operation to the R&S CMW500.

Anton Messmer, Director of Subdivision Mobile Radio Testers at Rohde & Schwarz comments: “The industry needs more flexibility and visibility within increasingly complex wireless modems. We are motivated by the partnership with Cognovo and 4M Wireless as this enables a rapid increase in the scope and speed of IOT and conformance testing which can be achieved using the R&S CMW500 protocol tester.”

The 4M Wireless PS100 LTE stack was selected by Cognovo as it is the most widely used commercial LTE protocol stack available today that has been tested in the field with all major LTE infrastructure vendors. The ease of integration of the LTE stack with the Cognovo Platform highlights the modularity and portability of the protocol stack software.

“4M Wireless is pleased to be enabling the cutting edge technology developed by Cognovo. This speeds time-to-market, minimises investment and allows for rapid adaptation to evolving wireless standards,” stated Atif Malik, CEO of 4M Wireless. “All the partners have a proven track record in the wireless sector and are delivering best in class solutions to the industry.”

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About Cognovo

Cognovo's Software Defined Modem (SDM) platform enables manufacturers to create flexible multi-mode devices capable of operating a dynamic mix of cellular, wireless and broadcast standards such as HSPA+, LTE, LTE-A, WiFi, WiGig, DVB, DMB. The platform delivers multi-mode products with silicon area and power consumption lower than the hardware designs which exist today and in a fraction of the time. We call this *intelligent wireless*.

The Cognovo SDM platform comprises the Modem Compute Engine (MCE), a licensable processor sub-system; the innovative SDM Operating System (SDM-OS) and a fully integrated soft modem development suite.

www.cognovo.com

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. It has approx. 7400 employees and achieved a net revenue of €1.3 billion (US\$1.6 billion) in fiscal year 2009/2010 (July 2009 to June 2010). Company headquarters are in Munich, Germany.

About 4M Wireless

4M Wireless Ltd is a supplier of innovative software solutions for mobile communications. The company is the industry leader in LTE protocol stack software for mobile devices. The 4M Wireless PS100 LTE protocol stack consists of Layer 2, Layer 3 and NAS protocol layers fully compliant to the latest 3GPP Release 8 and Release 9 specifications. The protocol stack is ready for integration with legacy 2G and 3G protocol stacks to support multi-mode operation. The company's award winning software is being used by a variety of market leading customers and partners. For more information about 4M Wireless visit www.4mwireless.com.

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