

# ICD Newsletter

Issue 4 – 2008

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## CDP 2.3.1 released

Our CDP middleware version 2.3.1 is now released and available for download from:

<http://www.icd.no>

### New or updated functionality:

Included in this release is:

- seamless integration and development for Windows, RTOS-32 and Linux
- improved user interface
- new build script for Linux development
- CDP DAQ logger update
- Fujitsu frequency converter support
- MSI/CSI Client
- Modbus Interface
- Siemens S7 IOserver
- CS1000 decoder
- Fraba OCD IOserver
- Diamond Systems IOCard support
- CDPDissector plugin for WireShark
- Wago IPC IOserver for K-bus
- Wago IO Configurator (XML creator)
- UDPIO Server
- CANOpen Master
- NMEA codec
- SNMP Manager
- CDPSim Simulation tool for dynamic systems
- CDPCoDeSys SoftPLC
- CDPRedundancy for creating redundant systems
- Support for Mozilla Firefox 3.x and Opera web browsers
- Linux Debian Etch libraries
- Libraries for Visual Studio 2002/2003/2005/2008 for Debug, Release, static and dynamic for MS Windows and static for RTOS-32 V5.12
- Built-in clock synchronization between controllers
- Diff support and filter support in CDPFileManager
- Scheduler improvement for OSes that do not support priority inheritance

### Thorough testing:

Rune Espeseth has headed the internal development process, with Claus Ivar Vatnehol being our new man in charge for testing. Claus is an ISTQB certified tester (International Software Testing Qualifications Board), passing his ISTQB exam with the highest scores obtained in Norway!

Our software has now been thoroughly tested using our new cpp unit tests. This testing framework can also be utilised by our customers in order to test their own applications.

We can also help our customers with building their own testing suite and propose testing regimes to comply with recent standards based criteria.



Claus Ivar will be able to help with setting up tests and develop your testing procedures.

Claus Ivar is also certified to go on offshore vessels should the need arise for on-site support. Claus Ivar recently attended the successful implementation and testing of the roll-compensated helideck on «Ramform Sovereign». The concept was developed and built by TTS-OHE AS. The control software is based on CDP with the CDPRedundancy add-on.



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## New employees:

Gopikrishnan Gopalsamy just joined our company!



Gopikrishnan will be supporting the development of CDP and the testing framework.

Gopi's experience from Alcatel Lucent's WiMax development in India will be very valuable in our efforts to deliver more IO servers for CDP. Gopi will enable us to quickly meet customer demands for new interfaces to external equipment.

Prior to joining ICD, Gopi headed Alcatel Lucent's development of WiMax embedded software. Gopi has a bachelor's degree from Sri Venkateswara College of Engineering, Sriperumbudur, India

## CDP plugin for WireShark :

Introducing CDPDissector – or How to Analyse CDP network traffic

Complex distributed CDP systems may generate a lot of network traffic, making it a challenge to trace, check and verify that your system is behaving according to your requirements.

By using CDP Dissector you can now easily capture and analyse the network traffic in a CDP based control system. CDP communicates through a proprietary protocol on top of UDP. With the Wireshark Dissector plugin from ICD AS a CDP user can see all traffic using this protocol

The Wireshark Dissector is a DLL plugin to Wireshark and is distributed freely to all CDP users.

All CDP packets are in a proprietary format which makes it difficult to read the network traffic without proper tools and translators. We have found that Wireshark (previously known as Ethereal) is a good tool for looking at the network traffic and decoding messages. With this plugin the CDP packages are decoded, which makes the task of debugging and proofing a CDP system far easier.

The Wireshark Dissector 1.0 for CDP is available for download from <http://www.icd.no/download/Free/CDPWiresarkDissector.zip>

See the user manual available for correct installation procedure and sample use. This plugin is tested with the latest available Wireshark version, 1.0.4

