



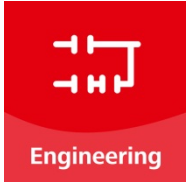
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# Roadmap CODESYS 2014

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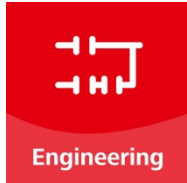


- Roadmap is a general outlook of the next year, not a commitment of availability
- Covers all features which will be in development or already available in 2014
- Roadmap is subject to change due to possible priority changes
- Presentation is grouped by product fields
- Overall development guidelines: Stability and compatibility



## Compiler / Code generator:

Feature	Description
Watchpoints	Variable values on passing a certain code area (breakpoint)
Exception handling	Exception handling in the application (possible to handle system errors)
Device application	Easier use of applications <ul style="list-style-type: none"> <li>- Shorter download times</li> <li>- Multi user operation on one controller</li> </ul>
C integration (OEM Add-on)	Management of C modules with the project (external compiler, no C development environment!)
Profiler (User add-on)	Runtime measurement and path coverage in applications

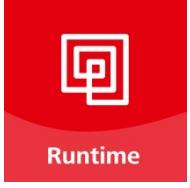


## User Interface:

Feature	Description
Online installation	Help, libraries and device descriptions online: <ul style="list-style-type: none"> <li>- always up to date</li> <li>- Partial installation possible</li> </ul>
Complete refactoring	<ul style="list-style-type: none"> <li>- Rename variables project wide</li> <li>- Change interfaces project wide</li> </ul>
<i>64 Bit CODESYS</i>	<i>No more storage problems (final decision done after feasibility study)</i>



# Planned Features



## Runtime

Feature	Description
64 Bit Version	Necessary for Windows real time solutions under 64 Bit Windows
Security	<ul style="list-style-type: none"> <li>- Restrictable, encrypted connections</li> <li>- Lock controller</li> <li>- Audit Trail</li> <li>- Backup/Restore</li> </ul>
OPC UA	Access to configured symbols Own developed solution based on the OPC foundation stack

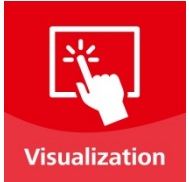


# Planned Features



## Fieldbus:

Feature	Description
PROFINet Stack	Software stack for ProfiNet IO/RT (No NetX or CIFx required, just a Ethernet port)
Profinet functions	<ul style="list-style-type: none"> <li>- IRT configuration</li> <li>- Topology display (switches visible)</li> </ul>
Application specific protocols	BacNet: Building automation IEC 61850: Energy automation



## Visualization:

Feature	Description
MultiTouch	Navigation, Zoom and scroll just like on the smartphone
Trend	Historical data logging
New elements	<ul style="list-style-type: none"> <li>- Camera</li> <li>- Navigation</li> <li>- Clock</li> <li>- Calendar</li> <li>- ...</li> </ul>



# Planned Features



## Motion + CNC

Feature	Description
Simplified commissioning	Interactive drive operation from the CODESYS user interface
SoftMotion light	Drive command with PLCopen POU's
New transformations	<ul style="list-style-type: none"> <li>- Articulated 6 arm robot</li> <li>- ...</li> </ul>





# Planned Features



## Safety:

Feature	Description
Cross Communication	Linking safety controllers via black channel
CSoS	CIP Safety over Sercos
FSoS	Fail Safe over EtherCAT
Separation of Safety from the CODESYS version	CODESYS can be updated and extended without risking to lose the Safety certificate



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Thank you for your attention.