

KALYCITO INFOTECH AND OSADL



in close collaboration with the  
Fraunhofer Institute of Optronics, System  
Technologies and Image Exploitation IOSB



## PRESS RELEASE

### Open Source OPC UA PubSub over TSN project phase #3 launched and call for participation

The Open Source licensed implementation of OPC UA *open62541* is a certified and industry-grade SDK including a PubSub implementation suitable for TSN. It is maintained at Fraunhofer IOSB, Germany with main contributions by the Indian software system integrator Kalycito and testing and integration support as well as project management by the Open Source Automation Development Lab (OSADL), Germany. The *open62541* SDK is successfully used in a large number of projects. Based on feedback received by users, certification shall now be obtained on a higher profile level and more features be added, specifically

1. certification for the "Embedded UA Server" profile as defined by OPC Foundation (current certification is for the "Micro Embedded Device Server" profile),
2. loading configuration from a text file and
3. security enhancements for PubSub.

To achieve these goals, phase #3 of the previously designed community project was launched and interested parties are now invited to participate in a similar manner as in the successful previous phases #1 and #2. In detail, the participant signs a Letter of Intent to contribute at Silver, Gold, Platinum or Diamond level. Since the funding threshold has already been reached, the Letter of Intent is immediately converted into a grant agreement and software development not yet funded is added to the work list.

Phase #3 includes software components on the OPC UA side as well as on the PubSub over TSN part of the project. For the first time, participants can choose the extent to which they would like to support either one or the other part, or both parts. Details of the various components to be developed are given in the Letter of Intent available at <https://osadl.org/OPCUA-PubSub-TSN-LoI3>. Several proposed additions are also important in the context of Advanced Physical Layer (APL), Single Pair Ethernet (SPE) and the upcoming 5G mobile standard.

“Although our business model of developing Open Source software in a community is undoubtedly successful and established since more than a decade”, said Dr. Carsten Emde, general manager of the OSADL, “we are still often asked why this is so and why a company should participate in an Open Source project. We believe that the answers are evident: Open Source development avoids unnecessary parallel development and considerably reduces the work load to obtain certification and compliance – two factors that explain why Open Source development saves money. And a company that participates in an Open Source project gains influence over the goals and realization of the project.”

Further information:

<https://www.iosb.fraunhofer.de/>

<https://kalycito.com/opc-ua-sdk/>

<https://osadl.org/OPCUA>

Responsible for this press release:

Dr. Carsten Emde

Open Source Automation Development Lab (OSADL) eG

Im Neuenheimer Feld 583

69412 Heidelberg, Germany