

Meeting Minutes

IEC 61499 2nd Edition Workshop

Room Zürich, Conference Center Nuremberg, Nuremberg, Germany
November 25, 2009 15:22-17:55

Participants

Schnatwinkler (Weidmüller), Griese (Weidmüller), Lücke-Jansen (Weidmüller), Kroner (Weidmüller), Schade (Weidmüller), Hagge (Siemens), Elsterer (Siemens), Chuinard (ISaGRAF), Jennings (Interroll), Gruschke (Interroll), Vrba (Rockwell Automation), Tichy (Rockwell Automation), Kadera (Rockwell Automation), Vyatkin (University Auckland), Mayer (nxtControl), Kopitar (nxtControl), Kollegger (nxtControl), Meduna (nxtControl), Marusiak (nxtControl), Mühlbauer (OSCAT), Preuße (Martin Luther University, Halle), Strasser (PROFACTOR), Ebenhofer (PROFACTOR), Zoitl (ACIN, TU Wien), Hamtner (ACIN, TU Wien), Hegny (ACIN, TU Wien).

Agenda

1. *Welcome & Intro (15:25-15:30) – Strasser (PROFACTOR)*

- Presentation of Agenda
- Introduction
- Goals
- Procedure
- Maintenance of standard

2. *Status: 2nd edition of IEC 61499 (15:30-16:00) – Zoitl (ACIN, TU Wien)*

General statement: “Maintenance Team 15 (MT) is open to new proposed changes”

- General changes and corrections
- Improvements in the ECC behaviour description
- Local (temporary) variables in algorithms
 - Chuinard: “in my point of view, local variables in algorithms is too restrictive”, “may” should be included
 - Zoitl: “may” is already included in the presented wording
- Network/Segment Types
- Interaction with Programmable Controllers
 - Vyatkin: “communication is hidden in the TASK-FB”; communication should be modelled explicitly (e.g., like the MGR_RES); direct contact with J. Christensen will be made
- Additional point

Vyatkin: a part regarding the starting of events after the termination of algorithms has been removed in the proposed maintenance document without discussion in MT15; Vyatkin will contact J. Christensen

3. ISaGRAF (16:00-16:20) – Chuinard (ISaGRAF)

- FB is a Black Box; Implementation is only interesting for the implementers of FBs; the internal structure, behaviour might be IP; FB should not have knowledge on presence of other FBs
- “2 events at the same time” i.e. within a cycle are supported by ISaGRAF
 - Jennings: “2 events at a time is not possible!”; time schedule is very important
- Currently not too many restrictions in IEC 61499
- IMS Research: study on key technologies in future
 - 70% see IEC 61131 as important technology
 - 40% see IEC 61499 as important technology of future
- Currently ~150k RT-licences from ISaGRAF are sold per year, which already support IEC 61499

4. nxtControl (16:20-16:40) – Mayer (NXTControl)

- Presentation of product: libraries, included HMI
- Open points:
 - Common marketing of vendors is missing
 - Certification is a crucial point
 - Industrial products are important
- Technical issues:
 - Name spacing is essential when using libraries
 - Adapters help easing the engineering for the end user

5. Coffee-Break (16:40-17:05)

6. Open Discussion (17:05-17:50)

- Chuinard:
 - Certification (TÜV) is possible
 - Current standard is ok
 - No major issues
 - No constraints for industrial applications
- OSCAT: open source library for IEC 61131 (devices of multiple vendors supported)
- Zoitl: better visualization of adapters on the interface of the containing entity should be thought of
- Mayer: portability is important
- Compliance profiles are important to leverage configurability, portability, interoperability
- Chuinard proposes a common booth with nxtControl at next SPS/IPC/Drives

7. Summary (17:50-18:00) – Zoitl

- MT 15 is on the right track
- Public and common compliance profiles are important