Combining UML with IEC 61131-3 languages to preserve the usability of graphical notations in the software development of complex automation systems

Abstract:
The visual presentation of the software standard IEC 61131-3 for embedded automation systems can hardly impart the structures of complex solutions. The UML as an alternative presentation from conventional software is confusing the engineers of this domain, as it contains many diagrams and notation details, which are designed for other purposes. The UML for Process Automation (UML-PA) offers a customized subset of the UML, which simplifies the graphical structure of the UML. Ambiguous notations elements of the UML are supplemented or cleared. UML-PA refers to IEC 1131-3 behavior specifications to offer skilled familiar notations within the framework of new structures.

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