TITLE

Implementation of a bidirectional import/export-interface for function block diagrams (FBD) and sequence function chart (SFC) between Comos PT and the PLCopen XML format

Abstract

To avoid hand copy, ICA engineers demand from CAE-Systems automatic Interfaces, for import and export of projected documents. Comos PT provides a lot of interfaces for it. Documents, Comos PT can't export/import, can be accessed via using TU-Dresden's Comos-Gateway. This student research project analyses the CAE-System Comos PT, the Comos-Gateway and the PLCopen format, rate them and shows up problems. With this results it's demonstrating a software-concept of a bidirectional interface between Comos PT existing function chart, compatible with IEC 61131-3, and PLCopen XML-format (Picture 1) and realizes an implementation of it.

Picture 1: Transport of a function chart

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