



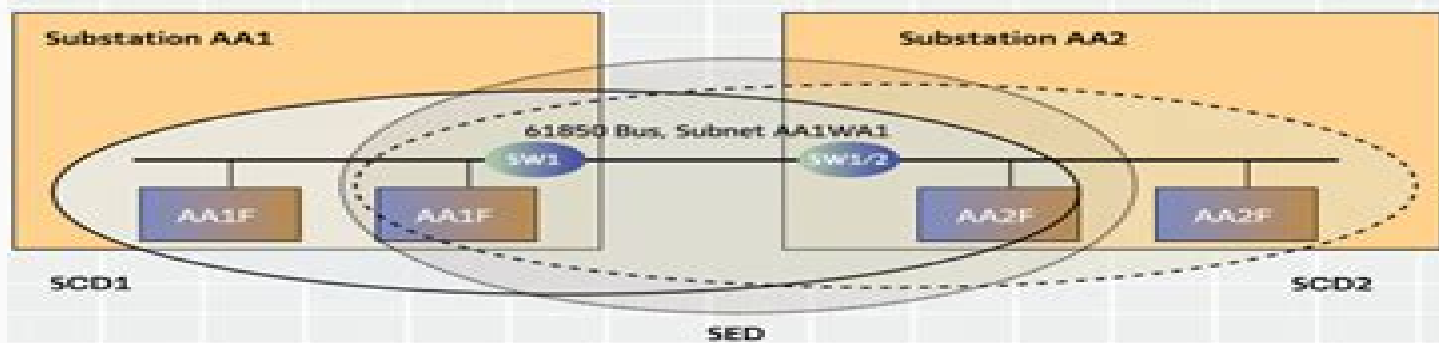
Wolfgang Wimmer works for ABB Switzerland in Baden. He is Principal Engineer in the development of substation automation systems. Wolfgang has a Master of Science degree as well as a Ph.D. in Computer Science from the University of Hamburg. After some years of developing computer networks at the German Electron Synchrotron DESY in Hamburg Wolfgang Wimmer made a change. He went to work for ABB for the development of train control systems, train Network Control Systems. Wolfgang has more than 20 years of experience with development of substation automation systems. Wolfgang is a member of IEC TC57 WG 19 and WG 10. He is also an author of IEC 61850-6. He has written many papers at conferences worldwide.

by Wolfgang Wimmer, ABB Switzerland

# IEC 61850 Edition 2 and Engineering

and IED engineering capabilities as well as complete systems as a means to transfer the syntax and semantic of project specific messages between communicating IEDs possibly of different vendors in an interoperable way at least between the IED engineering tools, if not directly to an IED. For sure Edition 2 fixes errors, inconsistencies and unclarities of Edition 1. Further, there are additions to ~~partially~~ overcome problems experienced with Edition 1, due to new functionality needed for other application areas. For backwards compatibility all additions are optional.

## 1 Substation-substation communications configuration description



One of the big differences between IEC 61850 and other communication protocols is that from its very beginning it considered the engineering of automation systems. Edition 1 already described roles and phases of the engineering process in part 4. The SCL language of part 6 provided a vendor independent means to describe IED functions

# Guide To Iec61850

**Jin-Ying Zhang**



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