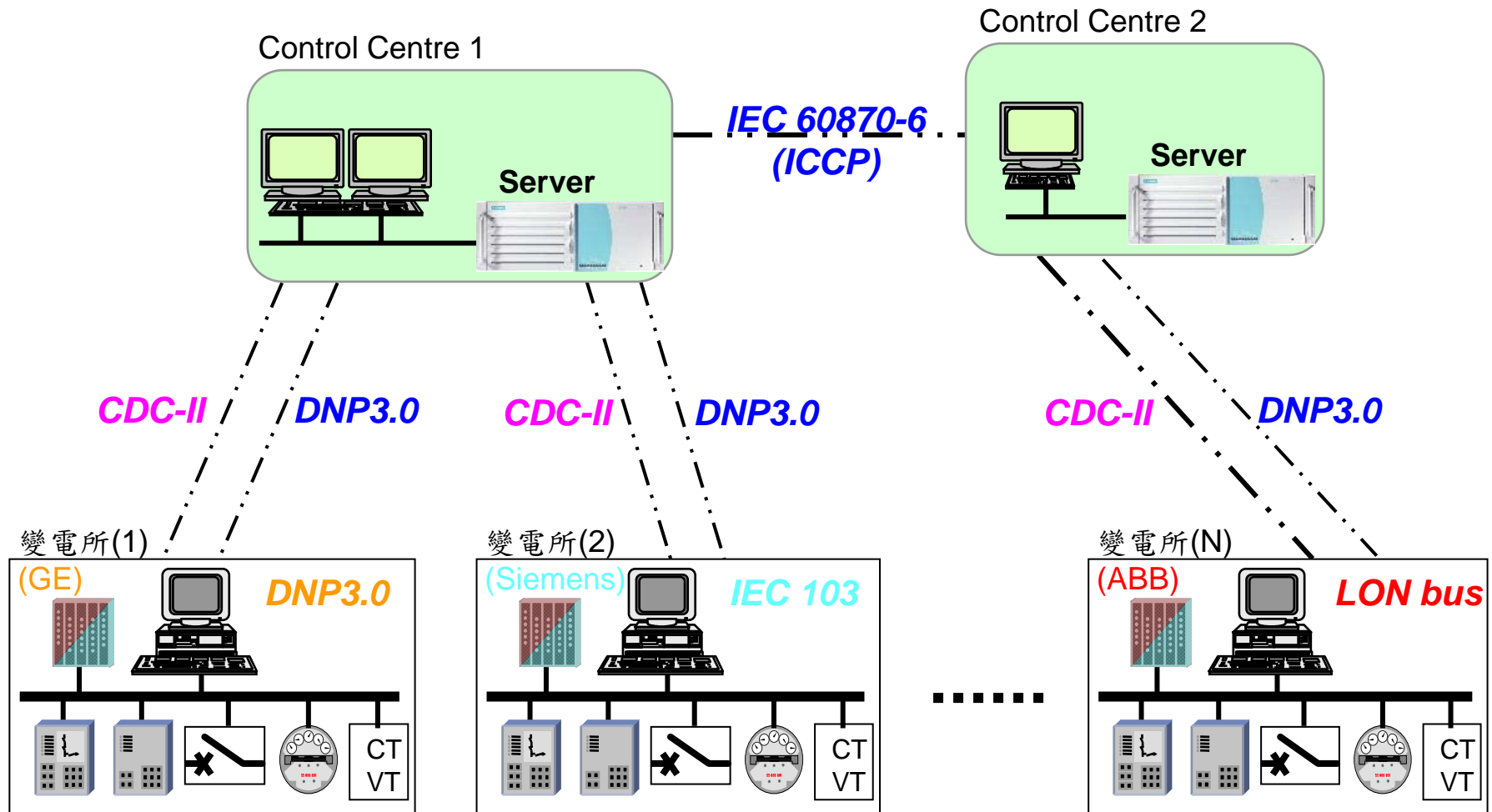


許錦章
C. C. Hsu
Vice President
ABB Ltd.

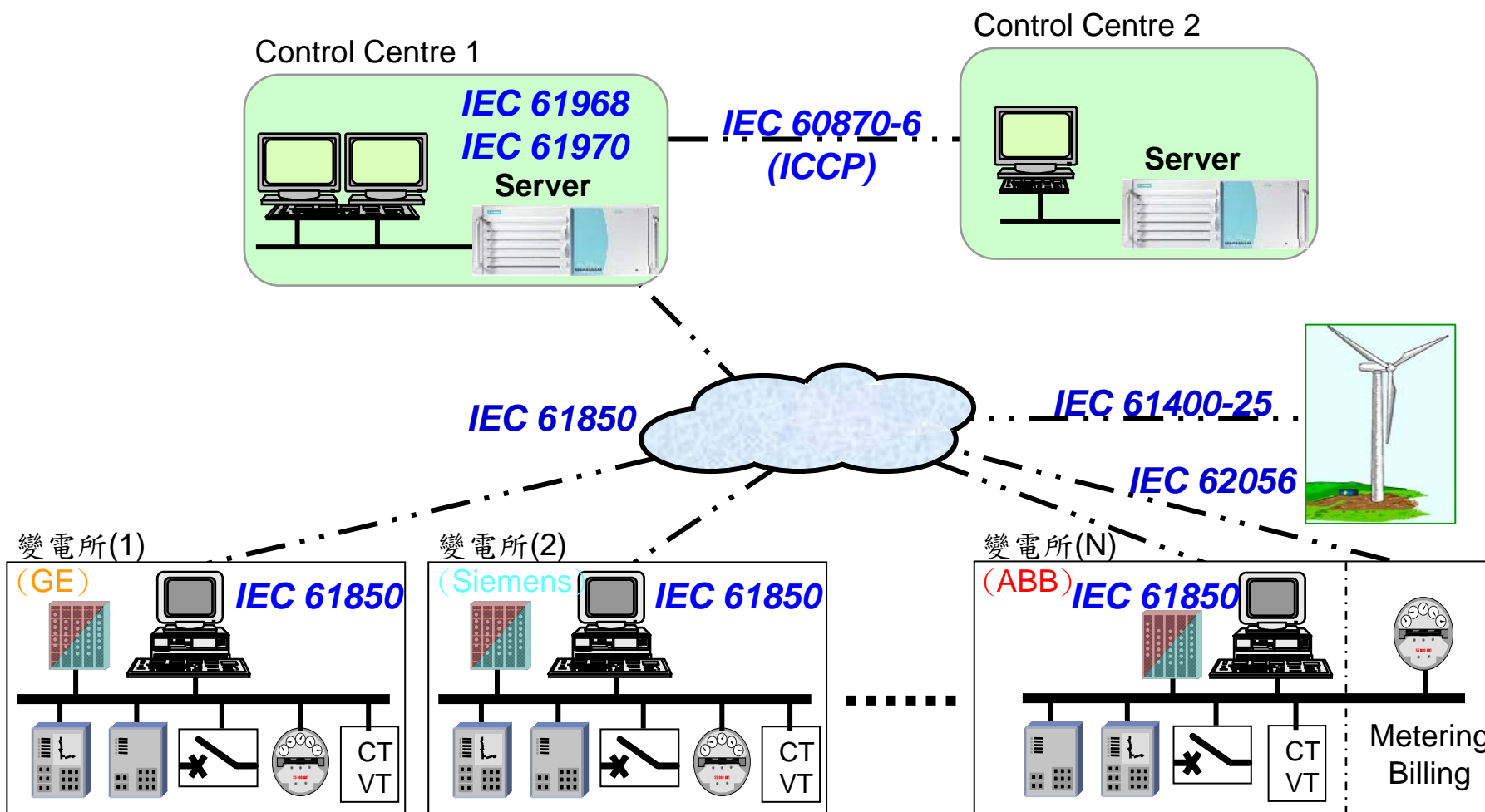
今日的變電站自動化方案
對照
明日的變電站自動化方案



今日的變電站自動化方案



明日的變電站自動化方案



IEC61850 的優點及效益



■ 系統及設備的互操作性 (Interoperability)

具備交換或使用資訊來自於 “一個” 或 “數個” 製造商的智慧型電子裝置 (Intelligent Electronic Devices) 之能力, 以達成進一步的應用功能

■ 自由的設備功能規劃及配置 (Free configuration)

此標準支持不同的系統規劃, 並允許自由的設備功能配置 • 例如:
IEC61850 可應用在 “集中式 (RTU)” 或 “分散式 (SAS)” 變電站
自動化系統

■ 長期的穩定性 (Long term stability)

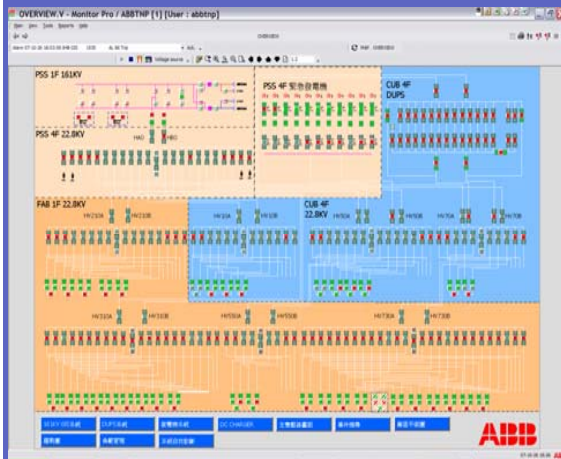
此標準符合未來的考驗 • 例如: IEC61850 能夠跟隨 “通訊技術的進展” 並且符合 “輸配電自動化系統的需求”



SA for NTC Fab3A 161/22/0.38kV S/Ss, Taiwan



Customer: NanYa Technology Corporation (NTC)
Year of commissioning: 2007



Customer's need

- EPC contractor NanYa Switchgear Unit builds six (6) new “Fab3A” substations
- Reliable partner for SA to support the project from tender clarification to turnkey implementation

ABB's response

- SAS650 IEC61850-based system with fully redundant hot-standby station servers
- Various ABB IEDs (REX521 * 197 pcs, REF541 * 66 pcs, RET541 * 13 pcs, & REB670 * 3 pcs) integrated in MicroSCADA Pro HMI with new GUI
- Integration of 3rd party meters & D-UPS, DC charger, MIMIC controllers via MODbus and Allen-Bradley PLCs via OPC connection

Customer's benefits

- Close cooperation resulting in optimized solution
- Safeguarded investment and optimized life cycle cost through future-proof IEC61850 based systems
- Excellent local competence and support



Top 3 Things in ABB Taiwan



Take Lead in *Safety*

為工安帶頭



Take Pride in *Ethics*

以操守為榮



Take Heart in *Quality*

對品質用心

The ABB logo consists of the letters 'A', 'B', and 'B' in a bold, red, sans-serif font. Each letter is composed of two overlapping shapes, creating a sense of depth and movement. The 'A' is formed by two overlapping 'A' shapes, the first 'B' by two overlapping 'B' shapes, and the second 'B' by two overlapping 'B' shapes.

Power and productivity
for a better world™

Primary Benefits of SA with IEC 61850

- Well-defined Data model with Data and Services
 - Description by SCL
 - Defined Stack Selection
-
- Function-oriented data model independent from implementation
 - Description by SCL
-
- Split of Data Model and Communication
 - Selection of Mainstream Communication Technology



Interoperability



Free configuration



Long term stability

