(0401743) Wide Area Monitoring in Smart Grids

Introduction to Wide Area Monitoring and Control (WAMC) of Smart grid. WAMC systems requirements. The distributed measurement and control devices, for example Intelligent Electronic Devices (IEDs), a centralized control center(s), WAMC application(s), and two-way digital communication between IEDs, system operators and controllers. Phasor Measurement Units (PMUs), a Phasor Data Concentrator (PDC) and user interface for data acquisition and control connected via a local area network. SITL (System-in-the-Loop) communication network simulations to interface the IEDs and other physical hardware.