Power SCADA Expert & Power Monitoring Expert

Verification & Validation Process Overview

March 2017

Life Is On Schneider Electric

Schneider Electric Investment in Innovation

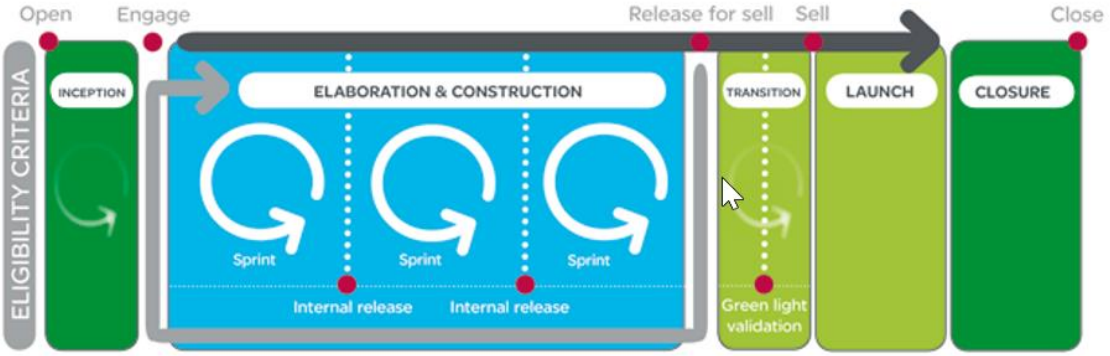
In 2016, Schneider Electric reinvested 5% of its €24.7 Billion top line revenue back into R&D.

Schneider Electric is serious about innovation and quality!

Life Is On Schneider Electric

Software & System Quality Assurance Process

Schneider Electric has implemented a standard Agile framework for software development.



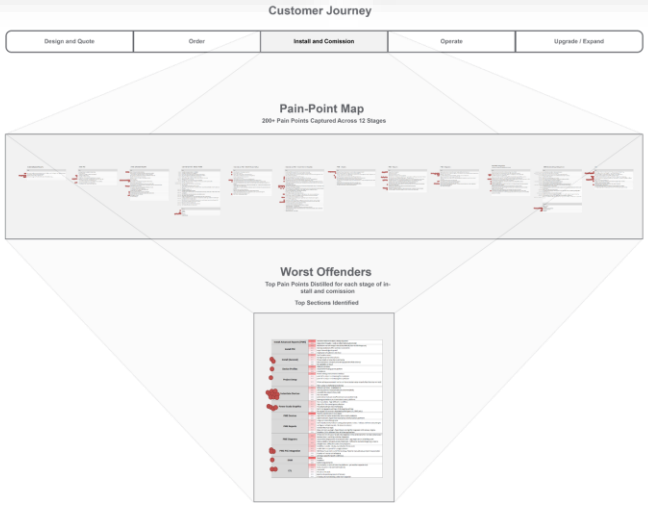
This Agile methodology incorporates verification activities into each sprint and internal release, and requires a formal system verification and validation during the Transition phase prior to each external release.

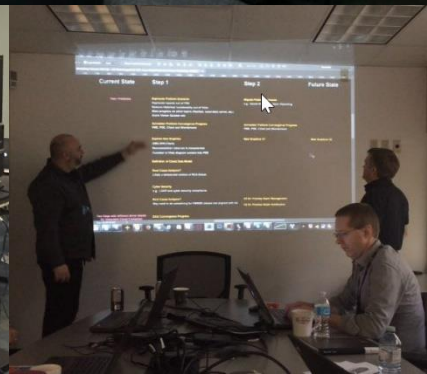
This key business process is included in the Schneider Electric quality management system, which is certified to ISO 9001:2015. This process receives regular internal and external audits to ensure compliance to the process and standard. PowerSCADA Expert and Power Monitoring Expert are developed using this Agile framework.

PowerSCADA Expert and Power Monitoring Expert are also developed in accordance with the Schneider Secure Development Lifecycle (see SDL document), to ensure a more secure offer.

System Test Plan

PowerSCADA
Project Planning & Tracking





Verification/Validation Test Systems

Over 700 devices

160 Different Device

- Acti9
- Compact NSX
- Sepam
- Masterpact
- CM100/200
- CM2000
- CM3000/4000
- PM600/PM700/PM800
- PM5000/PM8000
- PM1200
- EGW/EGX
- COMX
- ProTime
- Entercept
- BCPM
- E5600
- ION7650
- ION8650
- ION7350
- ION6200
- IEM3250
- MotorPact
- QED6
- PZ4
- PowerLink
- MiCOM
- VAMP
- Vigilohm
- Quantum
- Schweitzer
- GE

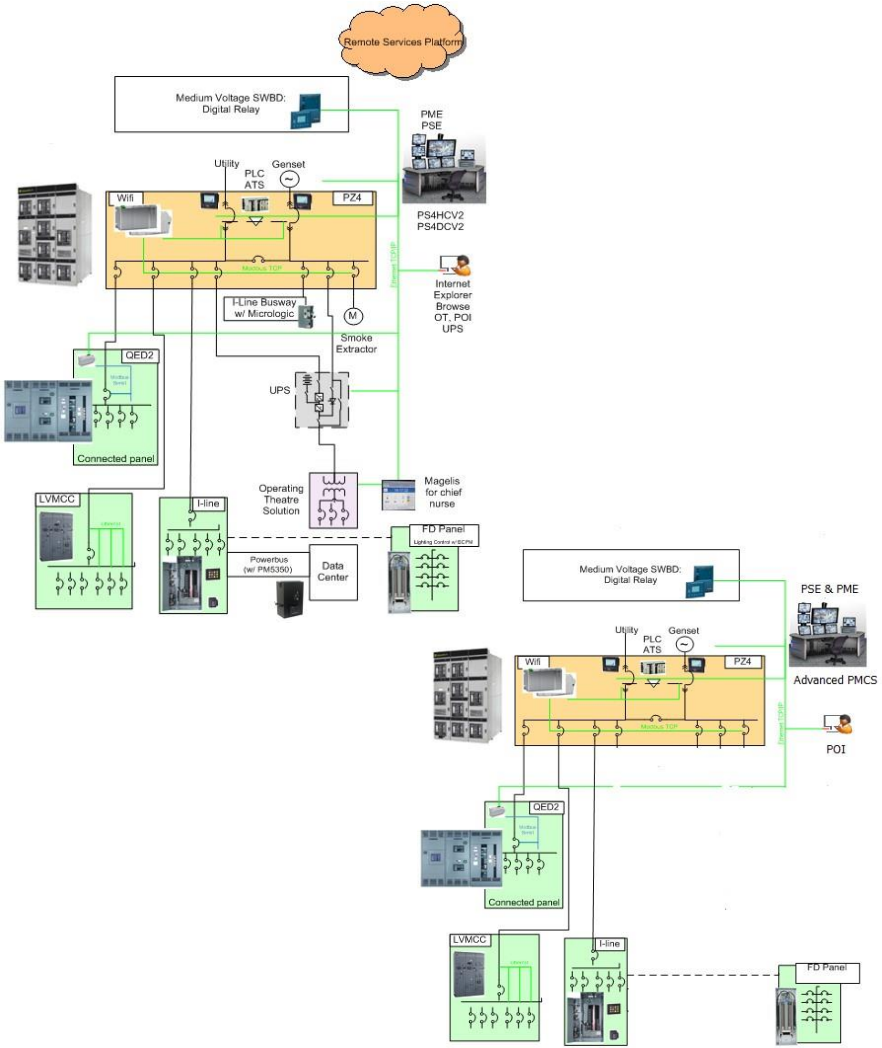
Large System Test Simulator

- System testing performed against existing customer projects
- Test with simulated systems of over **1 million tags**
- Used for stress and performance testing

Validation Systems Architectures

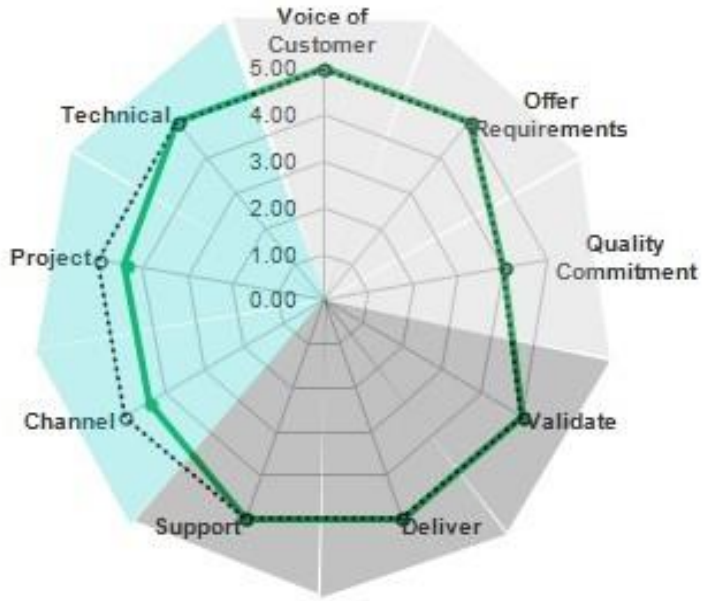
Advanced Power Monitoring and Control Validation systems including

- Data Center Architectures
- Healthcare Architectures
- Substation and Microgrid Architectures



Project Quality Assessment Example

- All internal training, sales, support and services at country and regional level will be trained by March 30
- CTQs requirement are 100% met
- All verification and validation tests are completed
- Launch preparation completed
- Final Safety and Security reviews are completed



Over 300+ customers visit our test labs annually.

Their feedback drives our product development