Service Portfolio

Provision of consultancy and/or implementation services in the technological areas related to "Control Center- & SmartGrid Systems" with focus on the following tasks:

- Professional technical/managerial project consultancy & implementation;
- Training (for system administrators, application programmers and system users);
- Planning-, analyzing-, specification, implementation support concerning sector-specific high-level challenges (common information model (CIM), GIS, cyber security, etc.);
- Quality Management;
- Project Management;
- Project Management Office (PMO);
- Preparation and implementation of strategic master plans.

In accordance with the specific client requirements/requests, Passt could provide its services either in the frame of self-contained fixed-price projects or by making professional resources available to customers and their project teams, respectively!

Technological Focus

By offering and providing highly professional and experienced resources, Passt is able to support its customers in the frame of tasks and activities, such as …

- Planning, feasibility studies, development and preparation of functional specifications and administrative tender documents, kick-off and execution of tendering processes until the selection of an adequate system vendor, system/project implementation, preparation/review of project specific documentation, after sales services, as well as all other pertinent activities, which are related to new installations, actualizations, enhancements or replacements of …
  - local or centralized SCADA systems used for the supervision and control of process components in the sectors of public and/or industrial generation, transmission and distribution of energy;
  - complex control center systems for medium and large energy transmission utilities (EMS), energy distribution utilities (DMS), energy generation companies (GenCo) as well as for vertically integrated utilities with combined generation and/or transmission and/or distribution responsibilities;
  - sub-systems and components belonging to our customers' corporate IT environment that are communicating and/or interchanging data with the aforementioned control center systems (GIS, metering systems, systems with relevant client, asset, maintenance, price and other data, forecast systems, staff assignment systems, …);
  - completely integrated Smart Grid / Smart Generation systems consisting of control center, communication and other IT components.
- Design, specification, tendering, selection of an appropriate system vendor, commissioning, parametrization, testing (functional tests, RTU protocol and point-to-point data tests in interaction with centralized SCADA and/or energy management systems) of RTU & IED systems and components.

- Design and preparation of master plans for a target-oriented and evolutionary enhancement of the corporate IT environment of an energy utility or of one of its sectors, respectively: review & unambiguous definition of the operational tasks; development of an optimal organization with definition of responsibilities, tasks and interfaces; derivation of underlying IT specific workflows; design of the optimal IT architecture for the specific company in terms of necessary software functions and data interfaces; mirroring of that optimal IT environment against the existing one; security analysis of bulk power systems using the NERC Critical Infrastructure Protection Standards (CIP); gap analysis and development of a roadmap regarding the adaptation/enhancement of the IT environment under consideration of any potential organizational bottlenecks and existing time & cost budgets.
- Due to our quite specific technological know-how and experiences, we are able to support and/or completely take over all typical tasks in the frame of the respective projects, on behalf of either the buyer/user or the vendor of those systems; (project management in terms of technical, commercial and administrative controlling, parametrization, data base design and data entry, functional testing in the factories and on site, documentation, etc.).

Methodology

All our resources are proficient in/with the fundamental practices and processes, which are generally applied within national and international companies belonging to the addressed market segments, and are providing their services in compliance with - / under consideration of the relevant national and international norms & standards, such as e.g.:

- DIN 69901 "Projektmanagement, Projektmanagementsysteme";
- ISO 21500 "Guidance on Project Management";
- ISO 10006 " Quality management systems -- Guidelines for quality management in projects" (→ on the basis of ISO 9001 with its intersectoral employment);
- Technological ANSI/IEEE norms (→ e.g. IEEE Std. 610.12-1990 "Glossary of Software Engineering Terminology", IEEE Std. 830-1998 "IEEE Recommended Practice for Software Requirements Specifications", ANSI/IEEE Std. 730-2002 "Software Quality Assurance Plans", ANSI/IEEE C37.1-2007 "IEEE Standard for SCADA and Automation Systems", ANSI X3.28-1976 "Procedures for the Use of the Communication Control Characters of American National Standard Code for Information Interchange in specified Data Communication Links", etc.);
- Technological IEC norms (→ e.g. IEC 60870 "Tele-control equipment and systems", IEC 61850 "Network Communication Protocols", IEC 61970 "Energy management system application program interface", etc.).

Decision Criteria

Advantages for Passt-Customers:

- Flexibility (e.g. tackling client-related workload-peaks, quickly staffing specific projects, etc.)
- Provision of highly professional resources with relevant experience and references, which are scarcely available on the market
- Competitive pricing

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