自动化

基于.NET的电力企业信息系统一体化设计及实现

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摘要

按照区域电网公司、省(自治区、直辖市)和市县电力公司三级组织管理模式，设计开发了基于.NET的电力企业信息系统。系统功能设计以安全问题的分析、处理、反馈为基线，信息分级上报，逐级整改、落实，实现了闭环管理。通过Web Services技术实现对系统功能模块的封装和集成。以区域电网公司建立数据中心，电网公司内外各单位不同模块间的信息通过通用描述发现和集成(UDDI)中心注册、认证，能够互相查询。文章给出了信息查询的Web Services模型和基于XML的数据交换模型。结合Web Services松耦合的特点和工作流技术的柔性，给出了业务工作流系统的体系结构。

关键词

电力企业信息系统；系统模型；Web 服务；工作流

分类号　TM73；TP391

Integrated Design and Implementation of Power Enterprise Information System Based on .NET

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Abstract

According the 3-level organization management mode for areal, provincial and urban electric power companies, a .NET based power enterprise information system is designed and implemented. In the design of system function the analysis, processing and feedback of security problems are taken as the foundation; the information on security problems is reported to the leadership from lower grade to higher grade, and corresponding rectifying, reforming and carrying out related to the reported information are performed step by step, so the closed loop management of power information is implemented. By means of Web service technology, the package and integration of system function module is realized. The data center is established in areal power grid corporation and the information from different modules of the units inside and outside areal power grid corporation is registered and authenticated by Universal Description, Discovery and Integration (UDDI) Center, thus these units can query the information each other. The authors give the Web service model for information query and Extensible Markup Language (XML) based data exchange model. According to the feature of loosely coupled Web service and the flexibility of workflow technology, the architecture of business workflow system is presented.
Key words

power enterprise information system；system model；Web services；workflow

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