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面向产业链协同SaaS平台多源信息动态集成安全技术研究

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Multi-source dynamic integration security for SaaS collaborative platform of industrial chain

摘要 图/表 参考文献 相关文章 (15)

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摘要 针对产业链协同平台与联盟企业信息动态集成的过程中身份认证、访问控制等可能存在的安全隐患,建立了多源信息动态集成安全的数学模型,提出了面向产业链协同SaaS平台多源信息动态集成安全解决方案。该方案利用Hash算法生成数字摘要,实现了Web服务传输过程中数据的完整性,利用非对称加密技术、数字签名技术实现了Web服务网络传输保密性和发送信息的不可抵赖性。以产业链协同平台协作企业查询车辆库存信息为例,通过平台协作企业集成向导安装的身份认证、注册服务信息过程中数据的完整性及保密性验证,验证了该方案的可用性和有效性。

关键词 : 产业链, 软件即服务, 多源信息, 动态集成, 数据安全, 加密技术

Abstract : For the possible security hidden trouble during process of industry chain collaboration platform and enterprise information integration,a mathematical model on multi-source information dynamic integration security was established.A multi-source information dynamic integration security solution of Software as a Service(SaaS)collaborative platform oriented to industrial chain was proposed.The digital abstract was generated with Hash algorithm to realize the integrity of the data in the transmission process of Web service.By using asymmetric encryption technology and digital signature technology,Web service network transmission security and non repudiation of sending message were realized.Taking cooperation enterprise inventory information an example,through the identity authentication during the wizard installation process for platform collaboration enterprise and the verification of integrity and confidentiality during the process of registration service information,the usability and effectiveness of the proposed method was proved.

Key words : industrial chains software as a service multi-source dynamic integration data security encryption technology

ZTFLH: TP393

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