System Architecture and Data Flow in Applications for Cross Platform Communication in a Secure Network

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Abstract

The interfacing online application system with an Intranet based ERP application is always a difficult task and contains so many threats in the process. The aim of this research paper is to describe the methods, technology, algorithms and implementation details of system architecture for cross platform communication of diversified applications over network. This paper consider author’s base paper namely Implementation of a Novel System for Cross Platform Communication of Diversified Applications over Network. The paper describes the difficulties to transfer the data files from the Intranet server to Centralized web server with proxy server settings, the authors face.

This system is in Visual Studio 2010 development environment, using C# programming language, ASP.NET, ADO.NET and SQL Server 2012 to develop a join system. To protect the data from attackers, the firewall restrictions should be setup. This paper focuses on the process of transfer data from SAP R/3 system to SQL server of local Intranet server which then makes the text files of the data and the data is transferred to the Web application server after the files
are zipped. So the overall process contains difficulties to pass the Intranet firewall setup as well as to secure the whole process. The paper also focuses on the process of Bulk Copy Program, optimization of routing decision and secure data transmission through the help of web services. The various keys are associated with throughout the process and the final version of data would be final after transmission. The objective of this work is to describe the overall architecture for Cross Platform Communication of author’s previous work.

References

14. Dr.S.S.Riaz Ahamed, “Moving Toward Network Security And Firewalls For Protecting


**Index Terms**

Computer Science  
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**Keywords**

SOAP, Firewall, Web Services, Relational Databases, ASP.NET, SQL Server, Intranet, RFC, SAP, Internet Proxy Servers.