Build an SAP IDOC Receiver Using the SAP .Net Connector

Overview

This blog post describes how to receive an IDOC from an SAP system, using the SAP .Net Connector and Microsoft C#.

Introduction

The SAP .Net Connector simplifies creating C# programs that can interoperate with an SAP host. The SAP .Net Connector is available from the SAP Service Marketplace. You must have access to the SAP Service Marketplace to be able to download the SAP .Net Connector. The SAP .Net Connector must be installed on your development machine before we begin.

An IDOC is an Interface Document that is used to send or receive information to or from an SAP host. An IDOC will consist of a header record and as many detail records as necessary. The header records follow the format of the EDI_DC40 table, and the detail records follow the format of the EDI_DD40 table. The exact format of the payload in the detail records depends on the type of IDOC being transmitted.

C# Code

We will create an application that displays the contents of IDOCs received from an SAP host. Use Visual Studio 2008 and create a new C# console application. Name the new application IdocReceive.

Add Reference to SAP .Net Connector.

In the Solution Explorer, right-click on References and choose Add New Reference. Select both SAP.Connector.dll and SAP.Connector.Rfc.dll. Typically, these files will be found in C:\Program Files\SAP\SAP .Net Connector 2.0.

Our program will instantiate a custom class, **IdocReceiver**, that encapsulates the SAP transmit and receive logic.

IdocReceiver inherits from the SAP .Net Connector. IdocReceiver overrides methods from the SAP .Net Connector to manage the flow of IDOCs from the SAP host. IdocReceiver also subscribes to two events exposed by the SAP .Net Connector that perform the actual transmission.

Build An Sap Idoc Receiver Using The Sap Dataxstream

Michal Krawczyk,Michal Kowalczewski

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The SAP R/3® Guide to EDI and Interfaces Axel Angeli,Ulrich Streit,Robi Gonfalonieri,2013-11-11 Where Has the Money Gone 1 1 Communication 2 More than 80% of the time of an EDI project is lost in waiting for answers trying to understand proposals and retrieving data nobody actually needs 1 2 Psychology of Communication 3 Bringing developers together accelerates every project Especially when both parties are so much dependent on each other as in an EDI project the partners need to communicate without pause 1 3 Phantom SAP Standards and a Calculation 4 SAP RI3 delivers a serious of predefined EDI programs Many project administrators see them as standards which should not be manipulated or modified The truth is that these IDoc processing functions are recommendations and example routines which can be replaced be own routines in customizing 1 4 Strategy 5 Do not loose your time in plans Have prototypes developed and take them as a basis 1 5 Who Is On Duty 5 Writing interface programs is much like translating languages The same rule apply 1 6 Marcus T Cicero 6 Some may have learned it in school the basic rules of rhetoric according to Cicero You will know the answers when your program is at its end Why don t you ask the questions in the beginning Ask the right question then you will know Wltat Are SAP RI3 Docs 2 1 What Are IDocs 8 IDocs are structured ASCII files or a virtual equivalent They are the file format used by SAP R 3 to exchange data with foreign systems **Application Integration Using SAP IDOC** Raghavendra Achar,2006

What on Earth is an SAP IDoc? Jelena Perfiljeva, This book provides you with the essential knowledge you need to work with SAP IDoc interfaces successfully Walk through the IDoc anatomy and different kinds of segments Dive into inbound and outbound IDoc interfaces and learn how to create a port and logical system Walk step by step through how to configure IDoc interfaces for various business scenarios including sending an invoice to an EDI partner receiving a sales order from an EDI partner and receiving material master data from an external system Learn how to use output and change pointer techniques Examine how to monitor and troubleshoot post IDoc interface implementation activities and get a handle on archiving best practices Navigate IDoc interface enhancement options including adding segments and user exits By using detailed examples tips and screenshots the author brings readers up to speed on the fundamentals of SAP IDocs Fundamentals of inbound and outbound IDoc interfaces and configuration Learn how to implement interfaces with ALE and EDI Troubleshoot common post implementation challenges Quick reference guide to common IDoc transaction codes and reports **The SAP R/3® Guide to EDI and Interfaces** Axel Angeli,Ulrich Streit,Robi Gonfalonieri,2013-06-29 A book for whole R 3 teams including team leaders customizers and developers to understand the benefits financial risks and technical backgrounds of IDocs and ALE in interface development It covers the role of interfaces in an R 3 roll out and the relationship to common standards like EDIFACT ANSI X 12 or XML A large number of recipes deliver templates as a basis of own enhancements It also works out why many EDI projects are ten times as expensive as they could be **ALE, EDI, & IDoc Technologies for SAP** Arvind Nagpal,1999 Introduces new users to the basic concepts of titular SAP interface technologies and teaches practical skills

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Table of Contents Build An Sap Idoc Receiver Using The Sap Dataxstream

1. Understanding the eBook Build An Sap Idoc Receiver Using The Sap Dataxstream
   - The Rise of Digital Reading Build An Sap Idoc Receiver Using The Sap Dataxstream
   - Advantages of eBooks Over Traditional Books
2. Identifying Build An Sap Idoc Receiver Using The Sap Dataxstream
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Build An Sap Idoc Receiver Using The Sap Dataxstream
   - User-Friendly Interface
4. Exploring eBook Recommendations from Build An Sap Idoc Receiver Using The Sap Dataxstream
   - Personalized Recommendations
   - Build An Sap Idoc Receiver Using The Sap Dataxstream User Reviews and Ratings
   - Build An Sap Idoc Receiver Using The Sap Dataxstream and Bestseller Lists

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