Program Guide

Arena - Sage 100 ERP Integration Bridge

Volume 1 - Program Guide

(c) Millennium Accounting Solutions 5655

Silver Creek Valley Road, #237 San Jose,

CA 95138

Phone: (408) 370-0656

Website: www.merpsystem.com

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Introduction

The Arena - Sage 100 ERP Integration Bridge is a custom-developed program designed to synchronize Bill of Material (BOM) and item data between the Arena PLM system and Sage 100 ERP. This integration streamlines the flow of product data, ensuring that updates in Arena are accurately and automatically reflected in Sage 100.

Chapter 1 - Sage 100-Arena Bridge Overview

The Bridge continuously monitors a designated folder on the Sage server for new data files generated by Arena ERP Exchange. It then:

1. Compares incoming Arena data to Sage 100 Item and BOM data files.

2. Creates new Items/BOMs in Sage 100 if they do not already exist (provided they have a valid Product Line).

3. Updates existing Items with new attributes from Arena.

4. Adds new BOM revisions if an updated revision exists in the Arena data source.

Optional Feature:

If Vendor Codes are provided, the Bridge updates the Sage 100 IM_ItemVendor file for up to three manufacturers and three suppliers.

After processing, the Bridge automatically generates and emails integration log files to designated users.

Chapter 2 - Application Requirements

Sage 100 ERP:

- Versions 2018 and above supported

- No modifications to Sage 100 source code required

Arena PLM:

- Professional Version: Requires purchase of the ERP Exchange Arena - ERP Output
  User License

- Enterprise Version: ERP Exchange Bridge included

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Chapter 3 - Data Sources & Fields

The Arena ERP Exchange generates data sources whenever new or revised Items, BOMs, or Item Vendor information is submitted.

The Integration Bridge:

1. Parses Arena's data source file

2. Generates a Sage 100-ready import file

3. Uses Sage 100 Visual Integrator (VI) automated jobs to:

  - Import Item data

  - Create/update BOMs

  - Send integration logs to end users

Fields Updated in Sage 100:

CI_Item:

- Item_Code

- Description

- Category1-Category4

- Product_Line

- Optional: Valuation (if different from Product Line default)

- Prim_Vendor_No

BOM:

- Bill_Number

- Bill_Revision

- Descrip_1

- Current_Rev

- Item_Code

- Qty_Per_Bill

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Item Vendor File:

- Item_Code

- Vendor_No

- Vendor_Part_No

Chapter 4 - MS SQL Agent Jobs

The Bridge's integration and synchronization process relies on Microsoft SQL Server Agent jobs, with the following steps:

- Job scheduling for periodic integration runs

- Execution of SSIS packages for data parsing and transformation

- Automatic initiation of Sage 100 VI jobs

- Email distribution of integration logs to designated recipients

Chapter 5 - Hardware & Software Configuration

Minimum Hardware Requirements:

- Windows Server 2012 R2 or newer

- Sufficient storage space for import/export files and log history

Minimum Software Requirements:

- Sage 100 ERP 2018 or newer

- Microsoft SQL Server Standard 2012 or newer (with SSIS installed)

- Microsoft SQL Server Agent enabled