

Weigh bridge Integration with SAP for Steel Manufacturing Company

Introduction

Client is one of the modern and leading manufacturing is, Steel & related products, including upstream (Coal Based DRI) & Downstream (like Pipes, Tubes, Engineering Products). Client is using SAP R/3 ECC 6.0 with Modules like FI, CO, SD, MM, QM, PM and PP. The Client approached AG technologies for SAP Enhancement i.e. Gate Entry and weigh bridge Integration with SAP.

Business Scenario & Challenges

Earlier the activities related to gate entry were executed manually outside SAP. And there were no relation between these entries into weighbridge system. So to map these important activities client approached AG Technologies to develop the Gate entry provision in the SAP system and integrating the developed Gate entry system with the Weighbridge system.

The Solution

- Solution was developed using C#/ VB.Net language and .NET 2.0 framework.
- **Approach for Raw material Inward:** Whenever raw material carrying truck reports at gate, it will be processed through weigh bridge and required data is captured in weighbridge database and will be transferred to SAP database via separate Z –Table specially created for this purpose.
- While making Goods receipt against Purchase Order (PO) the required data of gate entry details will be fetched in a separate screen, after entering a gate entry number in a respective field and the other information will be fetched from PO.
- The above approach can also be used for transferring Material between plants.
- AG Technologies provided separate screen in SAP to get the required details of Sales Invoice of the supplying plant after entering the Invoice numebr as a Input field for viewing the details.
- The Unique Gate entry number will be entered in existing gate entry non SAP software and as mentioned above all the data will be fetched in SAP Z table to get the detail report



Project Summary

Industry Manufacturing

Client Profile

One of the modern and leading manufacturing is, Steel & related products, including upstream (Coal Based DRI) & Downstream (like Pipes, Tubes, Engineering Products).

Solution

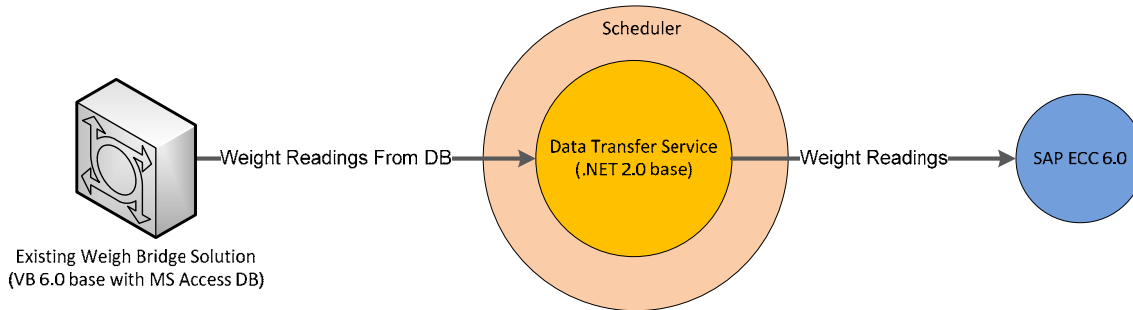
Client was using SAP R/3 ECC6.0 and was managing their Gate Entry process manually. They approached AG Technologies to develop the Gate entry provision in the SAP system and the same has to be integrated with Weighbridge System.

Solution Benefit

- Able to track In bound and Out bound Material movement.
- The data can be used to post goods receipts, production bookings and dispatch documents, etc.

- **Interface Solution between existing weighbridge software & SAP -**

- Solution will transfer weight readings from MS Access database (.mdb file) of weighbridge software to SAP ECC 6.0 on periodic basis as shown in following diagram. This service will be scheduled using Windows Scheduler with the user credentials having sufficient rights to execute the service.
- Solution assumes 10 data elements of weight readings to be transferred belonging to a single transaction. Solution will be deployed at 3 units only.



Technology

SAP - SAP R/3 ECC 6.0

OS - Windows 2007 Server

DB- Oracle 9

Benefit

- Client will be able to track In bound and Out bound Material movement, which will help to capture the details of respective material weight.
- Fetching of the weighbridge software data to SAP will enable client to make the comparison of weights between supplying plant & receiving plant.
- Able get the weight of material directly into SAP and then can use the weight data of respective materials to post goods receipt, production booking and dispatch documents.