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### Solution Overview

JK Technosoft provides an integrated and highly efficient product/ESB as "Integration Scheduling Engine" which is highly efficient and scalable Automation framework using **Microsoft BizTalk Server and ASP .NET** and handle all the message transaction between the source and destination and can be configured using UI.

#### Overview

#### Differentiators

"Integration Scheduling Engine" is the very powerful tool in terms of procuring orders, transportation and processing invoices. It supports lot of channels and formats. This application is designed in a way that it can easily expandable to support additional channels and format with negligible development effort.

#### Key Features

- Automation at Its Best
  - Configuring client data format along with source and destination.
  - Out-of-the-box solution starts working within seconds of installation.
- Transport and Messaging:
  - Supports different channels to send FILE, SFTP, FTP, WCF, EMAIL, DATABASE, MAIL, Event Queue. Able to process invoices in different format like Flat File, CSV, XLS, PDF, XML, EDI, ZIP.
  - Support Different message encoding like flat file, .csv, .xls, xml, json files.
- Scalable:
  - It has cross referencing tool which is configurable and provide ease to integrate with clients with different language and terminologies.
- Reprocessing and Tracking/Alerts
  - Logging and track the status of the transaction along with the failure reason.
  - Email Alert in case of any issues with action steps in email body.

#### Customer Pain Points Addressed

- We need to have visibility into what is happening to our organization.
- We have not found the solution that quickly build, test and deploy also effective to meet our timelines.
- The Client wanted to create a generic frame work which handles and integrate between various clients using same UI.
- Configuring the data format, source & destination for different client.
- Tracking the failure of the process and display on UI.
- EIP provides an interface which is used to monitor the status of a process at run time which is EIP Dashboard.
- EIP Dashboard contains the information about all running process, successfully completed process and failed processes.
- EIP dashboard provides the reason of failure, step to process gets failed and it allows the user to provide resolution which is stored in database and helps others if user stuck with same problem.

#### Typical Questions

1. **Question:** Currently, data providers only provide data in .CSV or Excel Files. Near future, data provider can be Http, MSMQ and some other communication protocol. Can this task be scalable/ Configurable or automated so that we save our precious resource times from these mundane works?

**Answer:** Yes, we have created powerful tool wherein we can change communication protocol and its message encoding from web portal which have data from various locations such as Email, FTP, or a web store.

2. **Question:** How large files can be processed by the integrated solutions?

**Answer:** BizTalk can programmatically read and process files much larger than any manual programs can open. Such as a 100 MB file will take forever to open in a desktop application but BizTalk can read it in real-time and process the data to a meaningful format. BizTalk also has the capabilities of chunking data in different sizes for efficiency.

- Sync / Asynchronous data processing.
- To automate the task of mitigating supply chain using BizTalk.
- A generic framework for all end users that can be deployed at various environments.
- Communicates with customers, vendors, partners and suppliers.
- If any data fails by any means, BizTalk provides capability to resume data from exact failure point- no single point of failure.
- Seamlessly connect mission critical applications, Integrate and communicate with any application that exists in current world.
- Can work with any messaging encoding format like xml, html, csv, excel, json, EDI, PDF, ZIP etc.
- To automate the task of mitigating supply chain using BizTalk.
- A generic framework for all end users that can be deployed at various environments.
- Communicates with customers, vendors, partners and suppliers.
- Real-time data processing.

