

SAP Integration with Non - SAP Systems

SAP Integration – Enterprise level & EDI - Our Strategy

Project Implementation team

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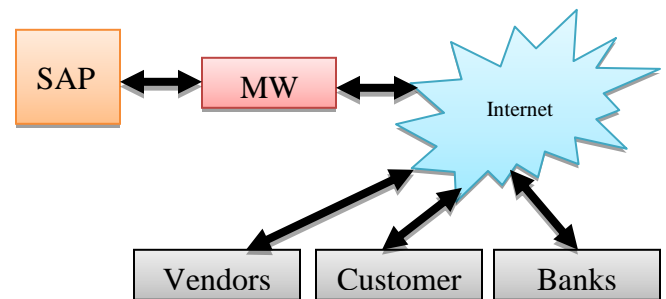
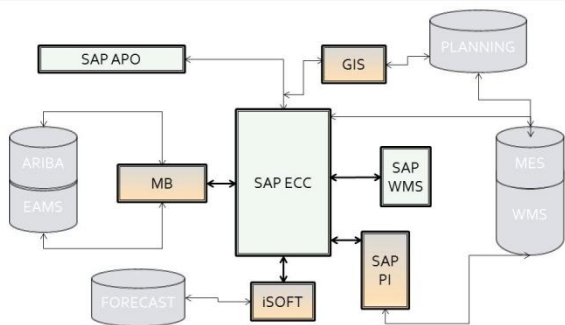
1.0 Introduction:

As a customer you know that SAP ERP is not the only application to handle your day to day businesses; you might have several other applications supporting different activities. Usually during a SAP ERP Implementation, a few of the already running non-SAP applications are retired and their processes are run on SAP ERP and the other few are integrated with SAP ERP application and some are left alone to function independently in other cases you integrate with third party partner's applications to exchange data.

SAP Integration within enterprise or outside thru EDI are both important for any company to have a successful exchange of master & transactional

data. There is always a need to add new applications or remove applications in your enterprise level environment & it is important for a customer to keep up with the challenges and needs.

There are several tools available within SAP that can be used to integrate SAP and non-SAP systems and similarly the non-SAP systems often comes with tools to integrate with other systems and usually with some or more level of customization from both SAP and non-SAP systems the integration between the two systems can be established successfully. This paper will provide some basic introductory details about the Integration process and how we do an integration project for our customers



2.0 Importance of Integration:

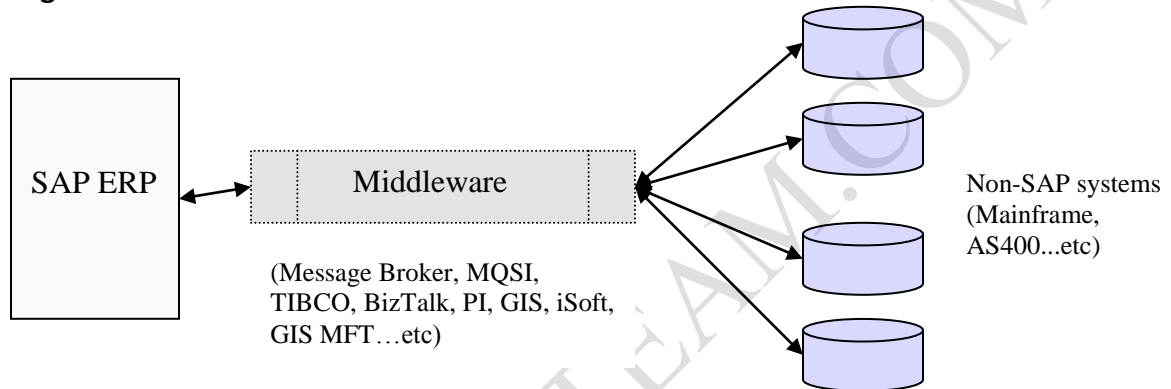
The flow of data and information across SAP ERP and non-SAP systems plays a vital role in handling the day to day business critical transactions and to keep SAP ERP synchronized with other non-SAP systems with respect to data and information. For instance some manufacturing clients use non-SAP systems to handle their production

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and shop floor activities and use SAP ERP Logistics module for Sales, Purchasing and Warehouse management. The non-SAP system does not know what to produce and how many to produce but this information is available in SAP ERP as a result of forecasting or orders received into SAP ERP. It is important that these details are sent to the non-SAP system in real time for actual production to take place and finally getting back information from these systems and updating SAP ERP with the production and inventory details.

3.0 Integration Process:



4.0 SAP ERP Integration Components:

SAP ERP transmits data to the Middleware system and then it is transmitted to the legacy, third party or enterprise level applications, this is commonly referred as an outbound message from SAP and if the IDOC comes from the middle ware/non-SAP/other SAP systems into SAP ERP then it is an inbound message.

Common forms of transmissions:

- Managed file transfers – Flat file/XML file
- By IDOCs - By tRFC / By qRFC
- By sRFC - Webservice

Trigger mechanisms:

- By Change Pointer programs, By Standard ALE programs, By Custom programs/User exists, Output determination process

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5.0 SAP Integration Key Decisions for our customers:

Customers can answer the following basic key decisions part 1 questions, this way we can understand your requirements on a very high level. Following this Part 1, we can conduct a Part 2 and Part 3 KD workshops to understand your requirements in depth. Most of the integration related issues happen in an enterprise because the requirements were not understood better and we pay a lot of time and intelligence in understand your requirements.

KD #	Key Decision questions – Part 1
KD1	Do you need to integrate SAP ECC with other applications within firewall (enterprise) such as Legacy, MES, procurement, WMS systems?
KD2	Do you need to integrate SAP ECC with your trading partners (EDI) such as Vendors, customers, banks etc?
KD3	How many unique integration points from SAP ECC? For example: SAP to Vendor 1 is one integration point.
KD4	Do you already own or have license for any middleware tools ? For example: MQSI, GIS, SAP PI, iSoft etc
KD5	Do you already have an Integration team ? Or do you need a full team to do the project ?
KD6	Do you need to integrate outbound from SAP and Inbound to SAP messages both with the other systems or just one or the other direction ?
KD7	Do you have a requirement for real time integration (web services) or near real time integrations (IDOC's, flat files etc) ?
KD8	In what business areas do you have integration needs ? For example: MM, WM, FI, SD, PP etc ?
KD9	Do you have any security/regulations requirements around any integration point from SAP ? For example: Some companies require Finance transaction to banks require additional security and coding mechanism.
KD10	Do you know if transformation is required between the integration points ? For example: A message sent from SAP will go thru required translation or formatting before it is sent to the other system.
KD11	Does your trading partners applications and your enterprise applications have the ability to send and receive messages from SAP ?
KD12	Will the integration be global in nature where you might be rolling them out to a different partner, market and applications at later stage ? or local to every system and one time roll out ?
KD13	Would you require a team to support and maintain your enterprise integration after the go live ? or will have your own team ?

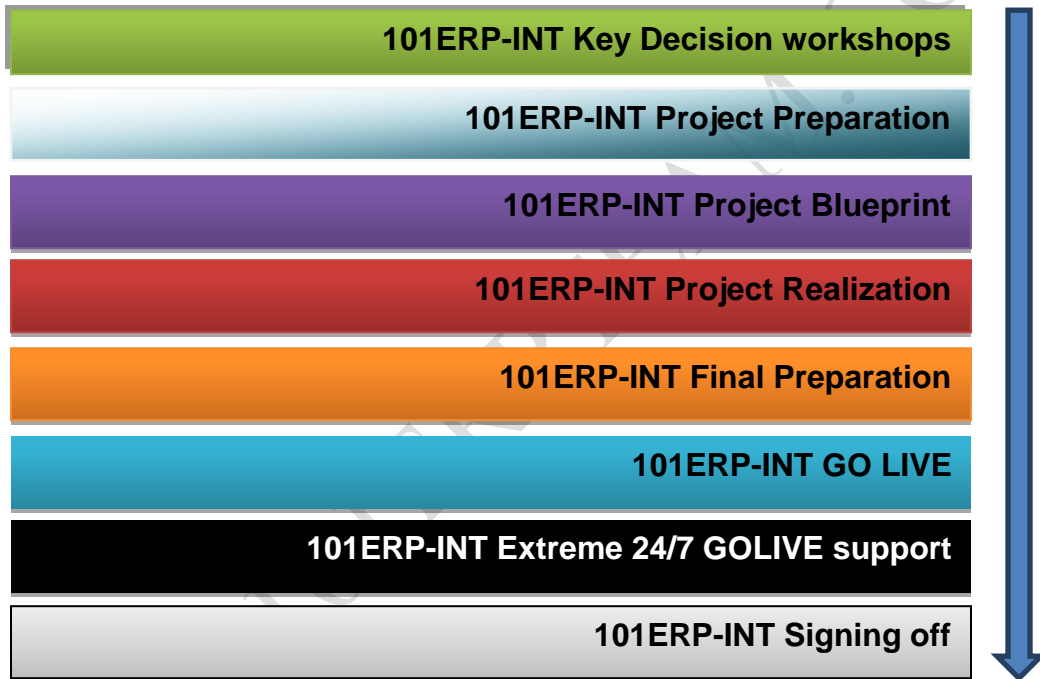
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KD14	Roughly how many messages outbound and inbound will be exchanged between SAP and other systems after go live ? If known.
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6.0 SAP ERP Integration Project Plan:

Our customers can take advantage of our robust and cost effective project delivery plan using ASAP methodology using standard industry best practices. Please see below for a high level overview of our implementation path for an integration project.



6.0 SAP ERP Integration delivery model & how it can benefit you:

Medium & Small businesses can take advantage of our Robust & cost effective SAP Integration Implementation, Deployment & Support solutions. Our solutions are based on recent trends in technologies, home grown templates and excellent SAP Integration team that can deliver what was promised to our customers.

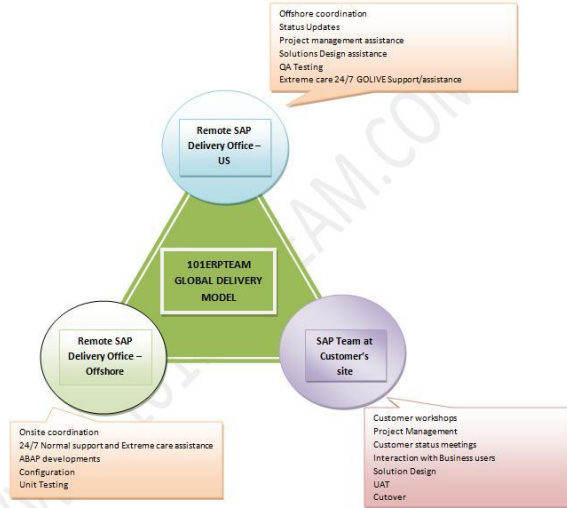
Our delivery model is quite simple and helps our customers to have a 24/7 coverage even during implementation and of course during extreme care during GO LIVE.

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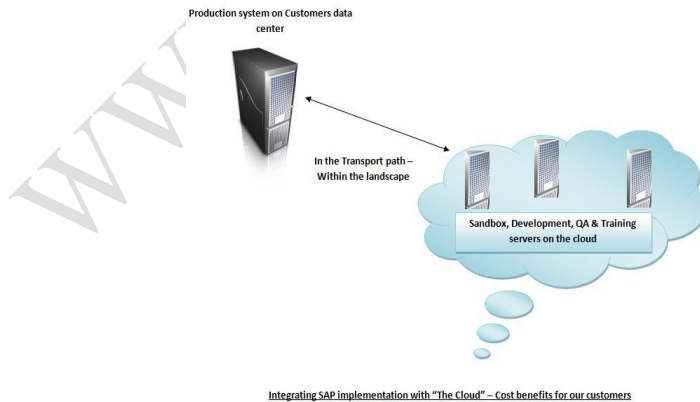
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Important factors determining the cost benefits:

- 1) With Industry best practices, lessons learned, expert & reliable team members, there is always cost savings for our customers.
- 2) High level initial requirements analysis (KD) is done even before we formally sign a contract, so our customers do not have to spend on initial analysis.



- 3) 24/7 support during go live or after go live, this way issues gets resolved in time & 24/7 design & development, this way we deliver the solution quickly
- 4) Very narrow production outage window, thus saving business impacts
- 5) You can take advantage of our Cloud model, if required. This way the landscape establishment and maintenance costs can be significantly reduced.



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- 6) 24/7 Extreme care support during go live and for a period of time after go live until stabilization reaches.

7.0 Conclusion:

Our implementation methodology is based on industry best standards with core focus on saving costs and providing flexible solutions at the same time. Our implementation team follows best practices from the industry and follows ASAP methodology for a full cycle implementation. With this, you certainly save implementation costs and our primary focus of customers are medium & small businesses and we know how cost savings are very important for your business, especially during a SAP Implementation.

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