
Ten Places SAP® Customers Can Reduce Business Data Management Costs

Summary

Given the extreme volatility of the US and global financial markets, and growing concerns about the overall business outlook for 2009, every prudent corporation has moved into cost-cutting and cash-conservation mode. Information technology (IT) expenses are some of the first to come under scrutiny – in particular the operational costs of ERP systems. Among the specific expense areas that should be examined are the support costs that can be incurred by the SAP® competency centers and costs related to data entry into SAP applications.

This white paper highlights 10 key places SAP customers can reduce IT operational costs, with a focus on trimming support and data entry costs by automating data entry. It is intended both for leaders of SAP competency centers and for business process owners looking for ways to “do more with less”.

Introduction

With the recent severe turmoil in the global economy and the resulting uncertainty, most corporations have gone into cash conservation mode. Across all industries, businesses are actively seeking ways to reduce operating expenses.

According to a leading IT research and advisory company, the top concern of CIOs at this time is cost cutting and budget optimization. While the adoption of SAP solutions has probably led to a more integrated workplace, there are still many opportunities in your organization to further cut IT operational costs.

Automating routine data loading into SAP applications is an obvious place to cut IT operational costs. This will not only reduce the costs and resources involved with manual data entry, but can also significantly reduce the burden on support organizations.

Most routine data loading projects fall in the range of 100-100,000 records, offering a significant opportunity for cutting costs. Manual data entry for such projects is not only extremely expensive, but it is also time-consuming, tedious, and error-prone. The alternative of petitioning the IT department to write programs for these data transfer projects can be a strain on a company's limited technical resources.

Empowering business users to automate data loading tasks using easy-to-use, low-cost solutions like those provided by Winshuttle can lead to tremendous savings in IT operational costs. Such products enable business users to easily automate data transfer between Microsoft Office business applications and the SAP Business Suite without programming, enabling users to solve common data loading problems.

This white paper will elaborate on some high-value use cases for data loading and will further identify areas within organizations where these use cases can lead to significant cost savings.

Four Different Cost Saving Use Cases of Data Loading Software

There are four common use cases where easy-to-use data loading software can yield significant cost savings in IT operational costs: Data Entry Automation, Data Maintenance, Data Integration, and Data Migration.

1. Data Entry Automation

Enabling the effective use of Microsoft Excel as a front-end to create new master and transactional data in the SAP system can lead to tremendous efficiencies in a business. With very little training, Excel users can create single or multiple records, affecting a single SAP transaction or a chain of transactions. Moreover, in most companies, data to be created in SAP applications may already exist in Excel. These records can be then loaded easily into the SAP system using data loading software, thus avoiding duplicate data entry. Excel sheets can be readily customized by business users to create easy-to-use, sophisticated data entry front-end forms.

Data entry automation can result in cost savings in many departments, such as in HR for new hire actions, in Procurement for new purchase orders or contracts, in Supply Chain for new materials and new sales orders, and in Finance for new assets.

The figure below shows one example of data intensive Excel templates set up for data entry automation in a high-value SAP transaction.

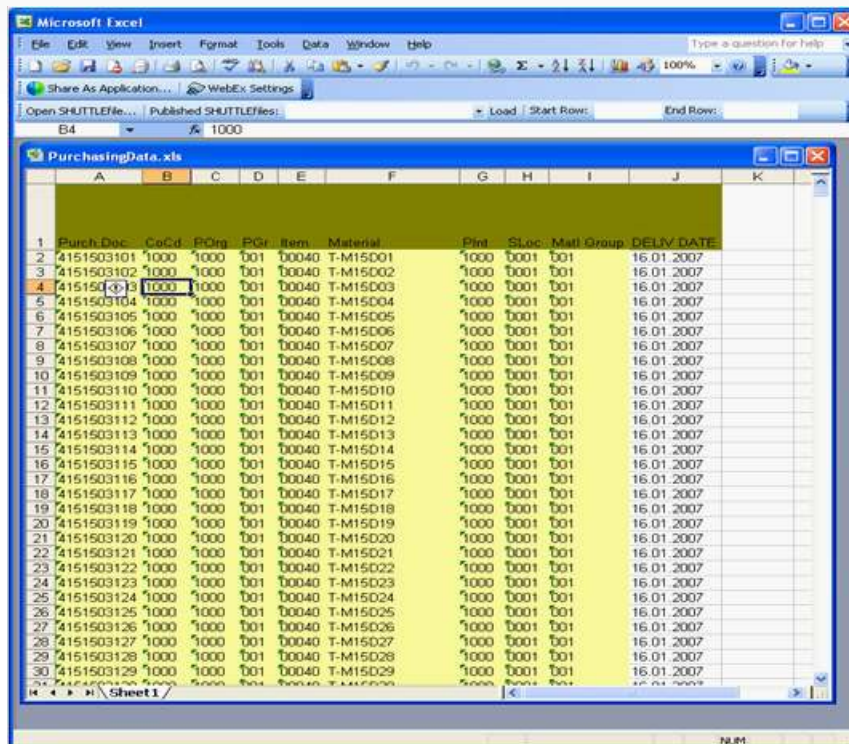
Header Information						Amount Information		
1	Document Date	3/15/2007				Total Debit	295,401.32	
2	Posting Date	2/15/2007				Total Credit	295,401.32	
3	Document Type	ZL				Net	0.00	
4	Header Text	FUEL ALLOCATION						
5	Reference	IN552						
6	Document #	Document: 100594571 1002 was parked						
Detail Information								
10	Company Code	Account	Cost Center	DVC	Amount	Text		
11								
12	1002	670005	053-21102	C	138,209.42	345956 miles at 0.4 per mile		
13	1002	447105	053-21103	D	138,209.42	345956 miles at 0.4 per mile		
14	1002	670005	077-21102	C	22,984.04	61182 miles at 0.38 per mile		
15	1002	447105	077-21103	D	22,984.04	61182 miles at 0.38 per mile		
16	1002	670005	103-21102	C	36,944.98	91637 miles at 0.4 per mile		
17	1011	447105	102-21103	D	36,944.98	91637 miles at 0.4 per mile		
18	1002	670005	216-21102	C	74,008.16	198502 miles at 0.37 per mile		
19	1002	447105	215-21103	D	74,008.16	198502 miles at 0.37 per mile		
20	1002	670005	255-21102	C	23,254.72	60038 miles at 0.39 per mile		
21	1002	447105	251-21103	D	23,254.72	60038 miles at 0.39 per mile		

Figure 1: A Journal Entry creation template set up in Excel to load data to the FB50 transaction. The header fields are contained on the top section of the sheet while the line items are located in the lower section. Buttons, linked to Excel macros, are set up to validate data or to post the data into the SAP system. The resulting document number from the posting is also displayed in the header section.

2. Data Maintenance

Data maintenance refers to the need, driven by business requirements, to make mass changes to master or transactional data in the SAP system. This is a routine business process that is usually the responsibility of the business process owner and can get very expensive and time consuming without the use of the right tools. While limited data maintenance activities can be performed via SAP mass-change transactions, e.g., MM17, business-driven data maintenance is commonly performed by first extracting SAP data into Excel files, making changes to the data in Excel, and finally loading the new data back into the SAP system. Data loading software such as Winshuttle's transactionSHUTTLE can make the loading step of the data maintenance process much more cost effective.

Some of the common data maintenance applications in the SAP system include material master changes, pricing condition changes, customer or vendor master maintenance, payroll changes, or changes to purchase orders. Figure 2 below illustrates a sample spreadsheet for a mass transactional data change.



	A	B	C	D	E	F	G	H	I	J	K
1	Purch.Doc	CoCd	POrd	POrd	Item	Material	Pmt	SLoc	Matl Group	DELIV DATE	
2	4151503101	1000	1000	001	00040	T-M15D01	1000	0001	001	16.01.2007	
3	4151503102	1000	1000	001	00040	T-M15D02	1000	0001	001	16.01.2007	
4	4151503103	1000	1000	001	00040	T-M15D03	1000	0001	001	16.01.2007	
5	4151503104	1000	1000	001	00040	T-M15D04	1000	0001	001	16.01.2007	
6	4151503105	1000	1000	001	00040	T-M15D05	1000	0001	001	16.01.2007	
7	4151503106	1000	1000	001	00040	T-M15D06	1000	0001	001	16.01.2007	
8	4151503107	1000	1000	001	00040	T-M15D07	1000	0001	001	16.01.2007	
9	4151503108	1000	1000	001	00040	T-M15D08	1000	0001	001	16.01.2007	
10	4151503109	1000	1000	001	00040	T-M15D09	1000	0001	001	16.01.2007	
11	4151503110	1000	1000	001	00040	T-M15D10	1000	0001	001	16.01.2007	
12	4151503111	1000	1000	001	00040	T-M15D11	1000	0001	001	16.01.2007	
13	4151503112	1000	1000	001	00040	T-M15D12	1000	0001	001	16.01.2007	
14	4151503113	1000	1000	001	00040	T-M15D13	1000	0001	001	16.01.2007	
15	4151503114	1000	1000	001	00040	T-M15D14	1000	0001	001	16.01.2007	
16	4151503115	1000	1000	001	00040	T-M15D15	1000	0001	001	16.01.2007	
17	4151503116	1000	1000	001	00040	T-M15D16	1000	0001	001	16.01.2007	
18	4151503117	1000	1000	001	00040	T-M15D17	1000	0001	001	16.01.2007	
19	4151503118	1000	1000	001	00040	T-M15D18	1000	0001	001	16.01.2007	
20	4151503119	1000	1000	001	00040	T-M15D19	1000	0001	001	16.01.2007	
21	4151503120	1000	1000	001	00040	T-M15D20	1000	0001	001	16.01.2007	
22	4151503121	1000	1000	001	00040	T-M15D21	1000	0001	001	16.01.2007	
23	4151503122	1000	1000	001	00040	T-M15D22	1000	0001	001	16.01.2007	
24	4151503123	1000	1000	001	00040	T-M15D23	1000	0001	001	16.01.2007	
25	4151503124	1000	1000	001	00040	T-M15D24	1000	0001	001	16.01.2007	
26	4151503125	1000	1000	001	00040	T-M15D25	1000	0001	001	16.01.2007	
27	4151503126	1000	1000	001	00040	T-M15D26	1000	0001	001	16.01.2007	
28	4151503127	1000	1000	001	00040	T-M15D27	1000	0001	001	16.01.2007	
29	4151503128	1000	1000	001	00040	T-M15D28	1000	0001	001	16.01.2007	
30	4151503129	1000	1000	001	00040	T-M15D29	1000	0001	001	16.01.2007	

Figure 2: A sample spreadsheet set up to change the delivery date for many line items in multiple purchase orders driven by a business reason (e.g. vendor informing customer of the delay due to unforeseen events).

3. Data Integration

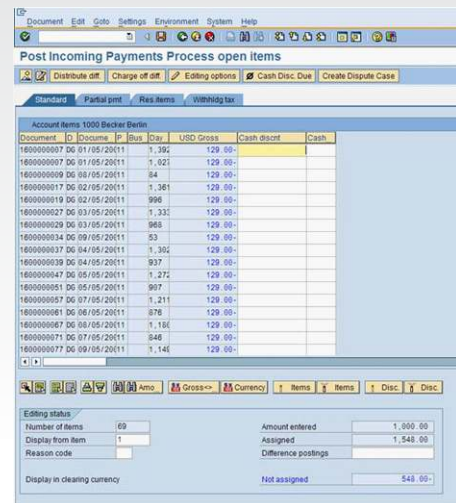
Data Integration refers to the process of synchronizing data between multiple disparate production systems. Many companies use systems outside of the SAP environment for specific applications, e.g., Siebel or Salesforce.com for CRM, or PeopleSoft for HR. The data between these systems needs to be consistent to ensure the existence of “a single version of the truth”.

Additionally, transactional data, such as invoices, sales orders, reconciliation statements, etc. often need to be exchanged between the company's SAP system and its customers', suppliers', and service providers' systems. While there are a variety of software choices available for real-time data integration between multiple systems, these software packages are typically complex, have large footprints, and are difficult to install and use for business users.

Simple-to-use, low cost data loading software can be used to reduce expenses in a wide variety of data integration scenarios where Excel spreadsheets or Access databases become the common data interchange mechanism. Thus, data is extracted or received from external systems in spreadsheet formats and can then be easily loaded into the SAP system using “mappings” defined in the data loading software.

The following figures show example screenshots of a data integration scenario where the incoming cash statement from the bank is posted into the F-28 transaction of the SAP system.

INNUM	INDATE	GROSS	DISC	NET	COMMENT
0090285162	03/24/06	\$960.75	\$0.00	\$960.75	3CS 332079
0090410068	04/24/06	\$5,286.83	\$0.00	\$5,286.83	DC APPROVED - RECC
0090511996	05/19/06	\$10,500.00	\$0.00	\$10,500.00	POD
0091276667	11/17/06	\$150.16	\$0.00	\$150.16	200EA N7990
0091276667	11/17/06	\$300.32	\$0.00	\$300.32	N7990
0091293557	11/22/06	(\$147.00)	\$0.00	(\$147.00)	ON CR MEMO9135851
0091293557	11/22/06	\$2,513.64	\$0.00	\$2,513.64	POD



Figures 3 & 4: An incoming receivable statement in a spreadsheet (above) is automatically posted into the Incoming Cash SAP transaction (F-28).

4. Data Migration

Data migration or data conversion is a core activity during new SAP implementations, upgrades, or mergers and acquisition-driven consolidations. Easy-to-use data loading software can be of tremendous value during these projects and can accelerate the time to value of SAP projects. Data migration projects consist of many components, including data extraction, transformation, and loading (ETL).

Microsoft Excel spreadsheets or Access databases often become a common staging platform for the data being migrated. Data is extracted from legacy systems into Excel or Access for cleanup and transformations. After transformations have been applied, the master data or transactional data then needs to be loaded into the SAP system. Easy-to-use data loading software allows business users to carry out the final data loading step of the data migration process themselves, which leads to significant cost and time savings.

Six Different Places to Look for Cost Savings with Data Loading Software

There are six places in your organization where the right data loading software can offer the highest cost savings.

1. Sales Operations, or the Order-to-Cash Team

Data entry processes in the sales operations department offer some of the largest cost cutting opportunities. In particular, many SAP customers find that automating data loading in the following processes leads to large efficiencies:

- New customer master creation (XD01)
- Customer master changes – credit terms, block/unblock status, address, sales hierarchy, partner functions (XD02)
- Pricing conditions creation and changes including customer-specific pricing (VK11, VK12, VK14)
- Sales orders and credit memos creation, including those received directly from customers, distributors, resellers, or sales orders collected in other systems (VA01)
- Changes in sales orders/quotes – changes in pricing, delivery dates, quantities, items, location (VA02)
- Contracts and rebate agreement creations (VA41/VA42)

2. Finance & Accounting Teams

Finance operations offer another good opportunity for cost cutting by automating data loading processes. Accounting teams usually have a large amount of data that is either created in Excel or is received in Excel, and manual entry of this data is expensive and usually delays month-end closings. Some of these automation opportunities include:

- Journal entries, Accounts Payables, Accounts Receivables parking or posting, including those using Profitability Analysis/COPA fields (FB50, FB60, FB70, FB01, F-02)
- Posting invoices received from external vendors, e.g., FedEx, UPS (FB60/FB50)
- Reconciliation and entry of P-card statements, e.g., American Express bills (FB50)
- Incoming payments & other bank information (F-28)
- Customer invoices (FB70/FB75)
- Fixed assets creation and maintenance (AS01, AS02, ABUMN)

3. Human Resources Team

Data entry processes in HR operations cover all aspects of the employee life cycle including recruiting, training, transfer, time tracking and job changes. In addition, with increased M&A activity many large-scale changes are becoming more and more frequent. Common areas of automation include:

- Adding and changing personnel information (PA30, PA40)
- Creating or changing organizational information (PP03)
- Recording work time (CATS,CAT2)

4. Procurement and Supply Chain Teams

Procurement teams are commonly under time pressure to meet calendar deadlines, and also have a large amount of data that is either created in Excel or is received in Excel. Some of the automation opportunities include:

- Creating a purchase order (ME21N)
- Vendor data creation or change (XK01, XK02)
- Create or modify outline agreement (ME31K, ME32K)

5. Master Data Team

Many companies have established master data organizations whose main goal is to define the business process to create or modify master data. This includes material or product master data, customer master data, and vendor master data. Implementing the right data entry and data download tools allows these teams to handle support requests or specific projects faster and without manual data entry.

- New material creation – all views including extending materials to different plants and sales organizations (MM01/MM02)
- Article masters for retail and apparel industry solutions (MM41/MM42)
- Bill of materials, including variant configuration (CS01/CS02)
- New customers and vendors (XD01 and XK01)
- Material master & BOM changes - characteristics, MRP controller, prices, cost, components, storage location, etc. (MM02, CS02)
- Customer master changes – credit terms, block/unblock status, address, sales hierarchy, partner functions (XD02)
- Vendor master changes – tax id, payment terms, etc. (XK02)

6. SAP Application Support Team

The SAP application support team is the central point of contact between business users of SAP solutions and the IT organization. According to a recent customer presentation at ASUG (Americas' SAP Users' Group), 80% of their SAP helpdesk tickets were data related. Easy-to-use data entry and data download software allows SAP support analysts to handle these requests faster or more importantly, delegate the tasks back to the business users.

Conclusion

In this economic climate, it is essential to make the most out of the current SAP solutions that are in place to help run your business. Automating data entry and reducing your data management costs in the areas discussed in this white paper will help you optimize budgets, while maintaining quality and responding faster to changing business needs.



Shuttlepro Premier Partner

Delta Consulting, Inc.

5 Christy Drive, Suite 109

Chadds Ford, PA 19316

www.go-delta.com

Brian Matteo,

Business Development Dir.

(888) 461 5553 x10

bmatteo@go-delta.com