



eWorksheet Data Sheet

Get Fast and Accurate Data Capture with eWorksheet

Improve data quality and eliminate latency from business processes by eliminating reliance on Excel files

- Ideal for Exception management and mass maintenance
- Helps you achieve zero latency by providing a single step Excel clone
- Enables real-time retrieval from the ERP
- Enables real-time update to the ERP using ERP supported native APIs
- Provides an Excel look and feel
- Supports conditional formatting similar to Excel
- Security compliance with ERP
- Provides comprehensive audit trail
- Workflow enabled

Need for eWorksheet

ERP Implementations in general are not designed to support efficient data capture. Hence many business processes revolve around Excel. A typical business practice for data maintenance would involve the following steps:

- Running a report from the ERP system in a reporting tool
- Downloading this report to Excel
- Reconciling the changes between the current download and the last download (includes formatting)
- Using the newly formatted report in a meeting to make further updates to the source data
- Optionally updating the data from Excel manually in the ERP

Long lead time and delayed decision making

One cycle involving the above 5 steps can take anywhere from days to weeks to complete. This latency added to the business process significantly impacts the quality of decisions made by managers.

Lack of Audit Control

Additionally these processes often lack both audit control and transparency thereby requiring expensive administrative costs during audits.

With the eWorksheet, there is no need for the business user to run a report, reconcile the changes and update data in the ERP.

Zero latency

All the data is retrieved real-time from ERP. Additionally as data fields are updated back in real-time to the ERP, the conditional formatting reflects the real-time state of the information. This eliminates the need for the business user to spend any time formatting the worksheet.

Timeliness and Quality of Decisions

Stakeholders make all the updates in real-time enabling the organization to achieve zero latency in making business decisions which ultimately improves operational effectiveness.

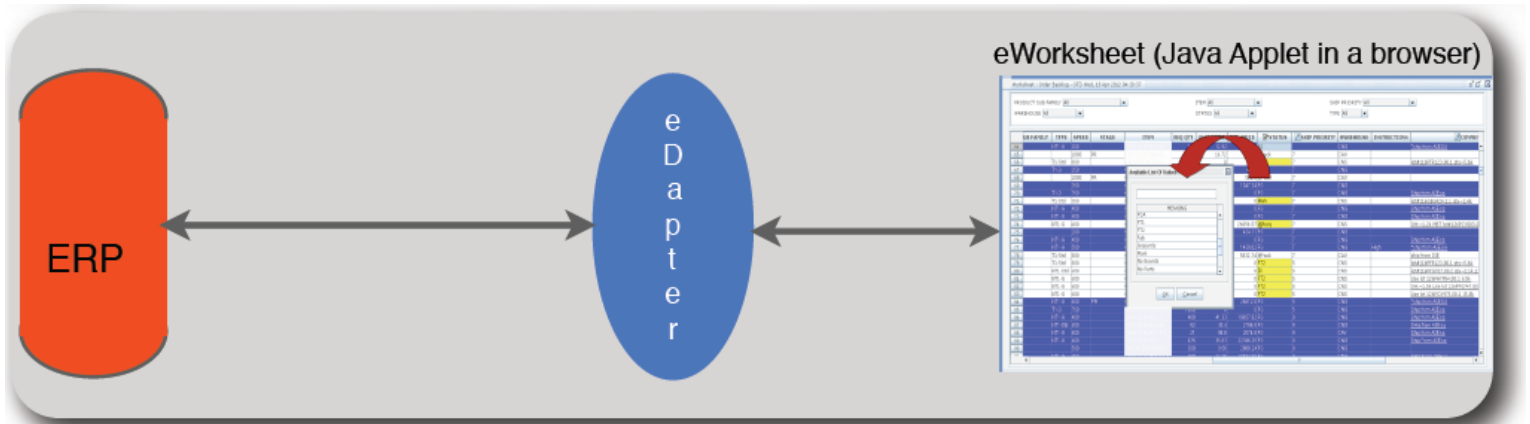
Reduced Costs in Audits

Since all the information is stored in the database, Audit costs are significantly reduced as there are no files or emails to track.

A case study from one of our customers, a leading fabless semiconductor of network processors

DAY	Tasks performed by Systems Analyst (Before using eWorksheet)	Tasks performed by Systems Analyst (After using eWorksheet)
Every Tuesday	Download backlog from ERP. Spend the entire day reconciling from the last downloaded snapshot from a week ago.	
End of the day, Tuesday	Make sure that this week's spreadsheet (before uploading to the shared directory!) is emailed to all the stakeholders, ie., customer service, shipping, and the boss before leaving for home.	
Wednesday and Thursday AM	Assuming there were no issues with the analysis and reconciliation, a day and a half are spent manually checking supply availability and updating the same spreadsheet with comments.	
Thursday late afternoon	Decide on priorities and allocations based on supply and demand at the Operations Council Meeting. This prioritization would then be used to make physical shipments.	Analyst retrieves all the data in real-time from Oracle at the Operations Council Meeting.
	Comments updated to reflect the new priorities and the allocated quantities to the backlog. The backlog/orders information is already 3 days old and supply information is also 2 days old. Assuming no manual errors there is already a 3 days latency to quoted lead time.	As comments, scheduled date and priorities (fields used for conditional formatting) are updated back in real-time to the ERP, any user who retrieves the report with the right format. There is no need for the business user to spend any time formatting the worksheet.
Thursday evening	A new spreadsheet with updated comments, priorities, and allocations is emailed to the shipping department.	Updates are made in real-time at the meeting – Zero latency in making business decisions and improving on time delivery.
Friday	Shipments made based on the spreadsheet received. Any changes since the snapshots were taken have to be manually reconciled.	Shipments are made on Friday, based on the latest eWorksheet as of Thursday evening in the operations council meeting.

High Level Service Oriented Architecture of eWorksheet



eWorksheet – A Sample screenshot

The screenshot displays the 'Worksheet: Order Backlog - OTD Wed, 10 Apr 2012 04:20:37'. The data table below shows the following columns: UB FAMILY, TYPE, SPEED, STAGE, ITEM, REQ QTY, UNIT PRICE, STATUS, SHIP PRIORITY, WAREHOUSE, INSTRUCTIONS, and COMMENT. A red arrow points from a cell in the table to the 'Available List Of Values' dialog box.

UB FAMILY	TYPE	SPEED	STAGE	ITEM	REQ QTY	UNIT PRICE	STATUS	SHIP PRIORITY	WAREHOUSE	INSTRUCTIONS	COMMENT
64	NT1-G	300		CN1110-1000000000		12.92	FG	7	CNS		*shp from ASEsq
65		1000	PR	CN1110-1000000000		16.72	FG	7	CAV		
66	T1-Std	800		CN1110-1000000000		0	FG	7	CNS		lot#116PFR123.00.1 qtr~5.6k
67	T1-G	350					FG	7	CNS		
68		1000	PR				FG	7	CAV		
69		250					FG	7	CNS		
70	T1-G	750					FG	7	CNS		Ship from ASEsq
71	T1-Std	350					FG	7	CNS		lot#116GBL424.1.1 qtr~2.4k
72	NT1-G	400					FG	7	CNS		Ship from ASEsq
73	NT1-G	400					FG	7	CNS		Ship from ASEsq
74	NT1-G	400					FG	7	CNS		OH~1.2k MBT lot#126PCY003.0
75		200					FG	7	CNS		
76	NT1-G	400					FG	7	CNS		Ship from ASEsq
77	NT1-G	500					FG	7	CNS	High	*shp from ASEsq
78	T1-Std	800					FG	7	CAV		ship from ISE
79	T1-Std	800					FG	5	CNS		lot#116PFR123.00.1 qtr~5.6k
80	NT1-Std	600					FG	5	CNS		lot#116PFG707.00.2 qtr~2.1k, 1
81	NT1-G	600					FG	5	CNS		Use lot 126PAY954.00.1 6.5k
82	NT1-G	600					FG	5	CNS		OH~1.5k Use lot 126PFG747.00
83	NT1-G	600					FG	5	CNS		Use lot 126PCX975.00.1 15.8k
84	NT1-G	600	PR				FG	5	CNS		*shp from ASEsq
85	T1-G	750					FG	5	CNS		Ship from ASEsq
86	NT1-G	400					FG	9	CNS		Ship from ASEsq
87	NT1-Std	400					FG	9	CNS		SHip from ASEsq
88	NT1-G	600					FG	9	CAV		Ship from ASEsq
89	NT1-G	400					FG	9	CNS		Ship from ASEsq
90		500					FG	9	CNS		
91	NT1-G	350					FG	9	CNS		Ship from ASEsq

How it works?

eWorksheet uses eDapter (Trinity's EAI/ETL) to fetch data from the ERP and present it to the user in a worksheet that they are familiar with. Unlike Excel where they can make changes in an unstructured manner, eWorksheet enforces business validation rules on editable cells so garbage data does not get into the system. Once all the data is captured and the user saves the data it then calls eDapter to orchestrate the changes in the ERP in real-time. If there are any issues with the APIs rejecting the data the feedback is passed back to the user. This ensures that there are no errors in committing data to the ERP.

Key Features of eWorksheet

Excel look and feel

Multiple Views

- Read-only View
- Updatable View
- Pivot View
- Transpose View
- Analytical View
- Master details View
- Record View
- Integrated graph with data

Slice & Dicing data

- Dynamic query
- Column filters
- Row / Cell based conditional editing

Conditional Formatting & Update

- Row / Cell based conditional coloring
- Row / Cell based conditional text styling
- Row / Cell based conditional editing

Import & Export data

- Import data from CSV file
- Export data to Excel, CVS file & Email

Security

- User Based Security
- Compliance with ERP

Integrated Scheduler

- Report can be scheduled to send data to subscriptions

Analytical reporting

- Data in different Dimensions and Measurements
- Dashboard & Trend graphs

Drilldowns support

- Drilldown to other reports / worksheets
- Drilldown to custom web pages
- Drilldown to TrinitI Applications

Additional Data fields

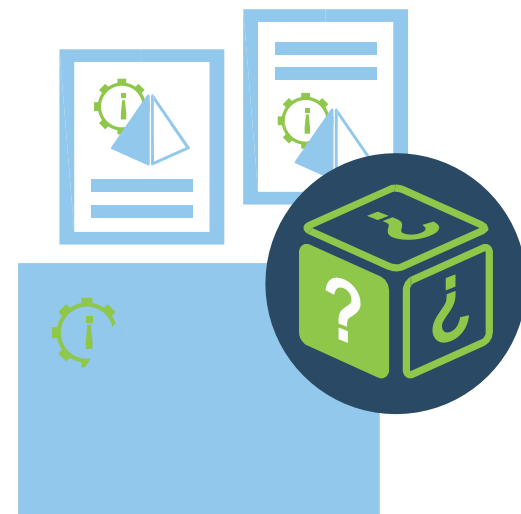
- Upload / Download documents
- File BLOB
- Hyperlink
- Password
- Picklist / Depend-on Picklist

Personalization

- Enable / Disable columns
- Column Ordering
- Save & Share private views

Additional features

- Print report data
- Send report data to subscriptions
- View report SQL via Inspector
- Before & After Commit Customer Controllers
- Data Mass Update
- Edit Validations
- Workflow enabled
- Comprehensive audit trail



Benefits of eWorksheet

- Achieve zero Latency and Full Transparency
- Get Fast and Accurate data capture
- Ideal for Exception Management and mass data maintenance
- Real-time retrieval from the ERP
- Real-time update to the ERP using ERP supported native API
- Integrated Online Analytical Processing (OLAP) reporting
- Configurable & Custom validations
- Excel look and feel
- Conditional formatting similar to Excel
- Comprehensive audit trail
- Workflow enabled
- Timeliness and Quality of Decisions
- Reduced costs in Audits
- Automation in sending report data to subscriptions
- Link documents to report data
- Enforce business validation rules for structured and clean data into system
- Improve Operational effectiveness
- Highly Secured – Used Based Security and compliance with ERP

