



SPREADSHEET WIZARDS

SPREADSHEET FORENSICS

WEB-EX DEMOS AVAILABLE

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***SPREADSHEET WIZARDS FILL VITAL CORPORATE GAPS
SPREADSHEET FORENSICS MONITOR THE RESULT - 365 DAYS A YEAR***

COMPLIANCE REQUIRES ACCURACY

CURRENTLY IN YOUR DATA CENTER AND ON YOUR SERVERS YOU

- Secure all your production Programs
- Have a test environment where all changes are thoroughly tested before being rolled out.
- Maintain Documentation on All existing systems and change requests.

WITH SPREADSHEETS WE HAVE FOUND

- Sheets with thousands and tens of thousands of Internal and External links.
- Sheets with thousands to tens of thousands of formulas.
- Spreadsheets that have multiple copies / versions on the same server (Backup of older versions as changes were introduced)
- Employees keying large amounts of updates into spreadsheets (data from multiple systems is being keyed into sheets for up/down stream analysis) – One error can update hundreds of other sheets through links incorrectly
- Employees modifying spreadsheet formulas – One bad formula change can break the integrity of the whole system.
- No way to document any of the sheets or links that exist.
- No secure way to control the environment.
- NO secure way to continually updates the sheets,
- Companies have hundreds to thousands of servers

SPREADSHEET WIZARDS / SPREADSHEET FORENSICS

SPREADSHEETS ALLOWED ANYONE TO CREATE COMPLEX PROGRAMS WITHIN THE ENVIRONMENT. WE HAVE TAKEN THIS ENVIRONMENT TO THE NEXT LEVEL

- Our tools work standalone and free of Visual Basic, JAVA, and .NET programming languages.
- Non IT Employees can work these solutions which create huge IT savings. Wizards can be created in minutes through point and click to update/extract data from sheets that would take hundreds of hours to program in existing environments.
- Eliminate problems caused by human keying errors and disgruntled employees that you would not catch until it is too late.
- Lower your costs as all the data entry into spreadsheets is automated and employees are freed up to work with data not on it.
- Spreadsheet Forensics will document your complete spreadsheet environment
- We then can put a joint plan together to secure your environment within your department and/or company.
- Remove or Archive all unused Spreadsheets. There are thousands of ZOMBIE sheets out there that could be mistaken for production by confused employees.
- Monitor all changes to spreadsheets and/or selected sheets. By reporting changes immediately we can stop all the errors up/down stream.
- Automatically update spreadsheets without the need for keying by taking your data directly from your systems into the spreadsheets. The Populator also creates archived backups of all updated spreadsheets in case of data feed errors.
- Create test environments to work on enhancements and changes to existing spreadsheets and their impact. Currently all linked spreadsheets have hard coded links and paths making it impossible to create test environments, we can convert the links to a test directory and eliminate the risk of testing in production.
- Create Business Intelligence interactive spreadsheets from your corporate data – what takes days now takes minutes and can be done with knowledge workers instead of only IT professionals.
- Create environments where spreadsheets can be time expired.
- Create environments where spreadsheets only open at a specific terminal or site..

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***SPREADSHEET WIZARDS FILL VITAL CORPORATE GAPS
SPREADSHEET FORENSICS MONITOR THE RESULT - 365 DAYS A YEAR***

It is no secret that Microsoft Excel spreadsheets, with millions of users worldwide, have become a major contributor to the enterprise reporting and financial analysis functions within most organizations. Few organizations, in fact, operate without at least some interaction with Excel; as a result, thousands of “shadow databases” exist within most corporate enterprise environments.

Excel, however, lacks proper enterprise controls to meet modern day requirements for spreadsheet security and monitoring. Excel provides no tools to support, track or manage the proliferation of spreadsheet files and databases within the enterprise. The integrity of critical spreadsheet files is compromised by multiple linkages and distributed data entry from multiple access points; simple keying errors or accidental (or deliberate) changes to key formulas instantly impact results in multiple linked spreadsheets without an audit trail to identify the source. As a result, organizations of all types operate with a significant risk exposure associated with their most important asset, the enterprise data and the business intelligence process.

To address this critical need, Warp7 has developed a series of "SpreadSheet Wizard" and "SpreadSheet Forensics" tools that address many of the areas of control and data integrity that are missing in today's complex spreadsheet environment. Functions performed by the "Wizards" include documentation, structured data entry, intelligent spreadsheet creation, automatic updating of existing spreadsheets from external data sources, and the management/monitoring of critical spreadsheets and their formulas across the entire enterprise.

Our powerful spreadsheet management tools provide an effective means to track manage and document all spreadsheet files within an organization, regardless of location, simplifying and enhancing Sarbanes-Oxley reporting and compliance. The Wizard tools, used in conjunction with creative process reengineering, allow for significant and measurable productivity improvements and cost reductions. Staffing can be reduced or redirected as the automated creation and updating features of the Wizards are implemented. Additionally, quality and accuracy improve as data entry is shifted from error-prone manual processes to automated electronic feeds directly from source data.

Wizards are delivered via subscription license and installed on a desktop level and/or enterprise servers.

The Spreadsheet Wizards lock down the enterprise risk.

- Sarbanes-Oxley – to examine, quantify and document the business risk and associated compliance issues and then lock down process controls.
- Business and Technical – Creating Wizard solutions to capture data, control input, or create/update existing spreadsheets with automated feeds.
- Business Intelligence – Creating 2-3 dimensional spreadsheets from existing corporate data across disparate systems. Instead of spending millions changing or linking systems, the existing data can be pulled from multiple sources into pre-formatted or on-demand spreadsheets producing the same output as more costly and complex enterprise solutions.
- Reduce/Eliminate manual end-user updates of critical data, reducing the risks associated with multiple “touching” and access of critical enterprise databases and spreadsheet files.

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SPREADSHEET WIZARDS - FORENSICS

In the complexity of the modern IT environment, no system is perfect, no application does it all. As a result, corporate information capture and management has evolved to include a vast “shadow database” of information in spreadsheets that reside outside the normal controls placed on IT data integrity, accuracy, quality, security and internal control. Until now there was no mechanism to even identify the existence of many of these spreadsheets (including those defined as mission critical), let alone track or manage file access, document critical file information, apply file security, or insure the integrity of the formulas or data entered. In the world of Sarbanes-Oxley, this represents a critical gap in the requirement to assure shareholders that financial information can be relied upon by investors

UNTIL NOW

A Recent Report Stated

“92% of Public Company Revenue Processes are at Risk for Compliance Failures and Restatements...”

There is a widespread reliance on spreadsheets, which greatly increases the likelihood of control weakness and accounting errors.

A recent survey of 650+ senior financial executives from a broad range of companies revealed that revenue recognition and reporting activities are not automated within Financial/ERP systems.

As a result, 92% of public companies are forced to rely on spreadsheets to fill vital gaps in their revenue reporting processes—despite the fact that spreadsheets are prone to errors, lack audit capabilities, and resist internal controls.

Warp7 has developed several tools designed to address these issues in the Microsoft Excel spreadsheet environment and we can provide you with some viable and affordable options. We offer on-site consulting and products that allow you to manage, monitor and populate your spreadsheets at a level that you define. Our products are non-technical in nature, easily learned and implemented, and have no complex hardware or software requirements.

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WARP7 SPREADSHEET FORENSICS



Spreadsheet Forensics Wizard

Spreadsheet Forensics software can help you identify critical enterprise questions, such as

- How many spreadsheets you have
- How many links exist within each spreadsheet (internal, external)
- Which spreadsheets are interrelated
- How many formulas are in each spreadsheet, and what they represent
- Which spreadsheets are obsolete and need to be removed
- When is a spreadsheet formula, link or cell changed
- What risks exist for keyed data and formula updates

At a desktop or server level, the FORENSICS Analyzer Wizard will identify and capture critical file detail on every Microsoft Excel spreadsheet that exists within the user-defined scope (ranging from each server to specific folders, disks, etc.)

- Scans all drives and directories within the user-defined parameters and logs all spreadsheets identified
- Documentation for any/all spreadsheets reviewed is produced, maintained and monitored
- Initial scan provides a detailed listing of all spreadsheets identified, with specific information provided on each spreadsheet including:
 - ✓ Specific file names and folder locations
 - ✓ Number of data cells
 - ✓ Number of formulas included
 - ✓ Number of worksheets used
 - ✓ Number of internal and external links to/from each spreadsheet
 - ✓ Date and time of last update
- Subsequent scans will allow you to track and monitor spreadsheet activity, and will report changes identified, including:
 - ✓ New data entered
 - ✓ Data cells that were changed
 - ✓ Changes in specific formulas
 - ✓ Changes in the spreadsheets links
 - ✓ Changes in links noted
 - ✓ New spreadsheets added since the last review
 - ✓ All spreadsheets deleted since the last review
- Allows user defined review and reporting scope
 - ✓ "Monitor" status available to limit review to key or "mission critical" spreadsheets to minimize run time and report length
 - ✓ Color coding available to quickly identify any changes noted

ALSO CURRENTLY IN DEVELOPMENT – Creating a Excel "test" environment to allow you to pull all related and/or linked spreadsheets into a "work" directory, automatically changing the links for testing purposes, to enable you to test changes, additions, etc. without risk to the current production copy. Currently, in Excel, you are testing "in production" when you key data and/or update spreadsheets.

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Illustration of a partial screen shot of the SpreadSheet Forensics tool showing the documentation provided for spreadsheets as they are processed by the software. Colors identify where changes have occurred. The Forensics Wizard tracks spreadsheet names, size, internal and external links, number of formulas, locations of all formulas and links, and much more.

SpreadSheet Forensics (c) 2006-2007 by Warp7Software

SpreadSheetForensics.com Analyzer 2007.1.0.1

Directory to Process: C:\WARP75~1\HN\

SpreadSheets Processed: 11

Minimum Formulas: 0

Total Formulas: 251,042

Minimum Cells with Data: 0

Log Process: YES

Max File Size: 5,000,000

Total XLS Sheets: 22

Processing: C:\WARP75~1\HN\Albany Claim Rcpt after FPR.xls

MONITOR	STATUS	DATA CELLS	FORMULAS	SHEE	INT. LINKS	EXT. LINKS	XLS FILE LOCATION	XLS SIZE	LAST UPDATE
1	CHANGED	686	317	3	0	46	C:\WARP75~1\HN\Albany Claim Rcpt after FPR.xls	137,216	2/12/2007 10:29:20 AM
2	PROCESSED	4,756	2,612	5	0	1,750	C:\WARP75~1\HN\Bing Wkly Claims Summ Rpt 2006.xls	228,864	8/23/2006 5:33:10 PM
3	PROCESSED	8,807	2,222	11	1,022	849	C:\WARP75~1\HN\BlueCard Monthly Statistics 2006.xls	477,184	8/23/2006 5:33:12 PM
4	PROCESSED	210,824	55,921	15	5,448	13,592	C:\WARP75~1\HN\Corp Daily Claims Summary 2006.xls	2,770,432	12/12/2006 10:27:30 AM
5	PROCESSED	210,884	55,921	15	5,448	13,592	C:\WARP75~1\HN\Corp Daily Claims Summary 2006a.xls	2,987,201	12/13/2006 11:00:32 AM
6	PROCESSED	199,109	52,792	11	4,408	13,565	C:\WARP75~1\HN\CorpDailyClaimsSummary2006.xls	2,552,832	8/31/2006 5:00:40 PM
7	PROCESSED	199,129	52,792	11	4,408	13,565	C:\WARP75~1\HN\CorpDailyClaimsSummary2006a.xls	2,756,608	8/23/2006 12:30:50 PM
8	PROCESSED	15,317	2,418	6	0	1,527	C:\WARP75~1\HN\CSCO Claims Summary 2006.xls	720,384	8/23/2006 5:33:10 PM
9	PROCESSED	110,350	9,565	21	1,384	93	C:\WARP75~1\HN\DB_Albany_Report_05_Weekly_Claim_Age.xls	2,124,435	10/10/2006 9:52:40 AM
10	PROCESSED	110,351	9,565	21	1,384	93	C:\WARP75~1\HN\DB_Albany_Report_05_Weekly_Claim_Agea.xls	2,075,511	10/19/2006 1:55:26 PM
11	PROCESSED	13,696	6,917	7	0	4,318	C:\WARP75~1\HN\Weekly Claim Summary Report 2006.xls	431,616	8/23/2006 5:33:12 PM

SHEET,ROW,COL	TYPE	FORMULA/LINK
1 Clm Rcpts after FP,8,N	FORMULA	W7 =86325+78193
2 Clm Rcpts after FP,8,O	FORMULA	W7 =83858+67383
3 Clm Rcpts after FP,8,P	FORMULA	W7 =77563+66379
4 Clm Rcpts after FP,8,T	FORMULA	W7 =sum('corp\csc\support\data collection and analysis\reporting\claims\corporate\2004\daily\corp daily claims summary 2004.xls'!bq\$10:\$ct\$11)

The Wizard DAILY LOGGER – Used to find errors and evaluate performance. This example was run on a Pentium 4 laptop with other programs running; the log reflects that it only took about 8-10 seconds to process a 3 Meg sheet. The log shows the start and end date/time, file size and file name. The system and outputs can be customized to your exact needs!

```
02/12/2007,10:29:26, 0, START
02/12/2007,10:29:26, 137216,C:\WARP75~1\HN\Albany Claim Rcpt after FPR.xls
02/12/2007,10:29:26, 228864,C:\WARP75~1\HN\Bing Wkly Claims Summ Rpt 2006.xls
02/12/2007,10:29:27, 477184,C:\WARP75~1\HN\BlueCard Monthly Statistics 2006.xls
02/12/2007,10:29:28, 2770432,C:\WARP75~1\HN\Corp Daily Claims Summary 2006.xls
02/12/2007,10:29:37, 2987201,C:\WARP75~1\HN\Corp Daily Claims Summary 2006a.xls
02/12/2007,10:29:47, 2552832,C:\WARP75~1\HN\CorpDailyClaimsSummary2006.xls
02/12/2007,10:29:57, 2756608,C:\WARP75~1\HN\CorpDailyClaimsSummary2006a.xls
02/12/2007,10:30:08, 720384,C:\WARP75~1\HN\CSCO Claims Summary 2006.xls
02/12/2007,10:30:09, 2124435,C:\WARP75~1\HN\DB_Albany_Report_05_weekly_Claim_Age.xls
02/12/2007,10:30:12, 2075511,C:\WARP75~1\HN\DB_Albany_Report_05_weekly_Claim_Agea.xls
02/12/2007,10:30:15, 431616,C:\WARP75~1\HN\weekly Claim Summary Report 2006.xls
02/12/2007,10:30:18, 0, END
```



Spreadsheet Wizards Overview

Warp7 has developed a number of “Wizard” application tools to automate data entry to existing spreadsheets without changing existing formatting, calculations, formulas or ranges. The Wizards can be set to create backup production copies automatically every time a new spreadsheet is generated. Applications include:

- **EZ Sheet:**
 - Simplified, easy-to-use spreadsheet; short training cycle
 - Provides tool buttons to perform the functions most used
 - Creates “Time Expired” and “Protected” sheets that can only be opened within the Wizard application.
- **Extractor: Automatically extracts data, formulas and any other information**
 - Allows you to extract values or formulas from an existing spreadsheet
 - Allows you to extract any data from an existing spreadsheet
 - Outputs spreadsheet values to a CSV file
 - Creates and saves scripts to repeat process as needed
 - Allows you to take data points out of .XLS spreadsheets and put them into a Wizard database for reuse. We capture the “.xls” file name, sheet name, data point row, data point column values and the associated value point. This allows you to generate new sheets with the data points in hundreds of new ways, *on demand*.
- **Spreadsheet Populator:**
 - Allows you to electronically input data into an existing spreadsheet template using raw data from CSV and other format files.
 - Creates and saves scripts to repeat process as needed
 - Can be scheduled or run as required
 - Can find fields by Sheet, Row and Column or match on field names in sheets to get coordinates.
- **Instant BI Reporting Spreadsheet: 60 seconds to create a template for a BI sheet by any end-user**
 - Leave the long term complex solutions consulting engagements behind
 - Create new spreadsheets by importing designated fields and data
 - Create “on the fly” data warehouse spreadsheets
 - Convert and/or Filter data “on the fly”, e.g. roll divisions 01/02 into 03
 - Select as many or as few fields as desired; allows you to select specific fields from a large array of data
 - Allows for cell formatting, summarization of like values within fields, column totals by field, and highlighting of high/low field values
 - Allows you to create 2 and 3 dimensional spreadsheets instantly
 - Creates and saves scripts to repeat process as needed
- **Data Input:**
 - Allows you to limit access to specific cells
 - Access governed by user ID and security levels; all user defined
 - Creates a documented log of all updated data
- **Move Data:**
 - Allows you to zero out a column in an existing spreadsheet, or move the data to other columns or rows within the spreadsheet using predefined scripts
 - Can be used in conjunction with other Wizards to prepare existing spreadsheet to receive new data input
- **Tester (in development):**
 - Allows you to move a spreadsheet and all its related sheets into a “test” directory, changing all links to point to the test environment; allows you to develop and test outside of the “production” environment



Securing your Environment Lowering Your Cost with a Huge Increase in BI Value

The Warp7 Wizard tools provide you with a process and the tools necessary to secure your spreadsheet environment, increase the accuracy of the output, mitigate your risks (internal and external) from manual data entry or process errors (intentional or otherwise) and lower your costs. Automated use of the Wizard tools will enable you to shift your valuable personnel resources from non-productive input processes into an analytical business intelligence workforce.

Warp7 Wizard tools require no special hardware, and do not require JAVA or any other software product to function. They run standalone in a very small footprint as compared to any other commonly used software product.

Warp7 On-Site Consulting Services Offers

- Installation of the Forensics Tool on as many of your servers as required.
- Monitor all spreadsheets, or only those defined as critical applications (user defined).
- Identify on your schedule (user defined) which sheets have been modified, how often, which types of cells are modified, etc.
- Allow Employees to document all sheets, purpose and how they are currently updated.
- Track all spreadsheets that are manually updated to identify opportunities for automated data entry.
- Use Populator and Extractor Wizards to automate data entry and updates.
- Where manual entry is required, use the Input Wizard to allow keying only into the selected cells appropriate for that input job and/or employee.
- Manage spreadsheet inventories by using the Forensics tool to identify unused or duplicate spreadsheets
- Deploy EZ-Sheet as appropriate to create “time-expired” or encrypted spreadsheets that cannot be opened outside of the Wizard application.
- Create test environments for new releases of the spreadsheets using the Tester Wizard. Avoid the risk of multiple versions of critical applications by maintaining upgraded or enhanced versions within a test environment until fully tested, then simply change the links back when you migrate the new version back into production.
- Set up Warp7SILOS™ to attach to the Business Intelligence Wizards. These silos give you access to immediate Business Intelligence without the need for a complex and costly data warehouse. BI Wizards can be created in 60 seconds or less to get at corporate data any way desired (sales forecasting, analysis, customer patterns, Six Sigma rollups, Dash Board Rollups, etc).
- Train and transfer the solutions to your internal staff.