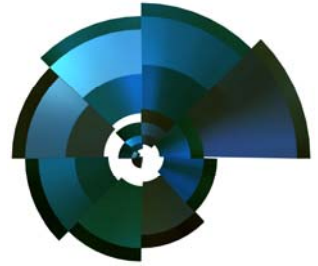




Why SCOPE?



SCOPE Project Sizing Software™ is recognised by the metrics industry as the most advanced function point counting tool available on the market today. It was designed by Pam Morris (CFPS), 10 years after she designed the previous generation FP tool, the Function Point Workbench™ (FPW) for *Charismatek*.

SCOPE was built specifically to address all the limitations that the Total Metrics team of function point specialists, had experienced when using FPW; particularly with respect to ongoing management of counts in a corporate environment and tracking software changes in outsourcing Contracts.

SCOPE has extended all the great functions and features, originally designed into FPW, to take them to a new level of sophistication. In bringing function point counting up to date with the latest software technology and methods of development, it has also added many new features to take your function point counting into the future.

Function point counting is now:

- Easier
- More reliable
- More accurate
- More cost effective
- More accessible
- Less exposed to risk of losing data
- Less exposed to risk of data corruption

SCOPE imports all the counting details from all current versions of FPW so you can upgrade to using **SCOPE** in minutes and continue counting without any loss of historical data.

SCOPE has been implemented in major corporations in over 15 countries, to become today's function point counting tool of choice for people who are serious about counting.

Join all the other previous FPW users and upgrade to SCOPE today.

Ask us about our *discounts* for previous FPW Licensed users.












Total Metrics will be pleased to assist you in building your business case to upgrade to SCOPE.













Please contact us at:







admin@totalmetrics.com

Gap Analysis Summary

Feature	SCOPE	FPW	Benefits of SCOPE
Multi-User database – enables concurrent access by multiple SCOPE Users			Centralised FP Count Repository all SCOPE Uses can access and maintain concurrently
Designed and built utilising the latest Microsoft technology so that all function keys and shortcuts are MS Windows® compliant			Avoids risking valuable investment in counting using old technology
Selectable multilingual interface (includes all screens, messages and reports)			Available in 10 Languages: <ul style="list-style-type: none"> - English - Japanese - German - Chinese - South Korean - Portuguese - Dutch - Spanish - Italian - French
Synchronisation capability enables offsite counting and merging of counts without corrupting other count results			Allows counts to be done remotely offsite or offshore and then validated before merging into the master repository
Enables counts to remain confidential for sensitive projects and only merged with central repository when			Saves time and costs of manually retrofitting the database and allows sensitive counts to be completed offline

Feature	SCOPE	FPW	Benefits of SCOPE
approved			
Single SCOPE database file to simplify data storage and transmission of counts			Reduces risk of corruption of database through loss of multiple files and indexes that need to be managed
Enables Project Managers to quantitatively track project rework			Enables suppliers to charge back for project scope-creep and changes to User requirements
Imports historical count data from MSEXCEL and other industry FP counting software e.g. FPW			Easy to upgrade from other tools without losing historical count data
Allows Projects to map to multiple applications so that counts be aggregated at Project level as well as at Application Release level			Maps the structure of your counts to the real-world structure of your applications development and maintenance environment for easy reporting and communication
Allows multiple counts to be applied concurrently to the same baseline without overwriting other counts details			Allows multiple counts to be done for multiple change requests that impact the same Release of an application – avoids corrupting the master baseline with counts overwriting each other
Inbuilt expert system for IFPUG FPA and ability to			Reduces risk of giving incorrect sizing for decision making by ensuring more accurate and

Feature	SCOPE	FPW	Benefits of SCOPE
record and report accurate and detailed count information			consistent counting
Modern User Interface , Fully Windows compliant with standard windows shortcuts, function keys			Easy for novice users to learn , makes it easily adopted and saves costs and significant time on training
All data entry and linking can be done on a single split screen without trekking through layers of stacked windows			<p>Saves significant time (therefore dollar costs) for a counter to record count results. Also assists in reviewing counts as all information is available on a single split screen and names are fully readable</p>
Field lengths are unrestricted to allow actual specification names to be used in documenting the count and display without truncation			
Data groups can be hierarchically structured to individually document RETs and DETs which can be linked to Elementary Processes			
Allows easy hierarchical cataloguing of Notes and Attributes with no field length restrictions for complete count documentation			

Feature	SCOPE	FPW	Benefits of SCOPE
Online expert system to provide expert assistance in IFPUG counting rules			Saves time and costs of audits and recounts by providing an online mentor on counting queries
Full Audit capability of all changes to counts			Tracks Author and date when all count details were modified including comments Fully searchable so you know what changed and when.
Presents all reports in MS Word, EXCEL and HTML as well as online previews			Easy compilation of count reports into management reports

Detailed Gap Analysis

Between

SCOPE and FPW

1 SCOPE maintains the Integrity of the Count Repository

SCOPE's unique configuration control capability enables it to manage the individual functional sizing of **concurrent** Change Request Projects (Enhancement Counts) ensuring other counts are not overwritten when updating the master Application counts (Production Releases). This feature enables a project manager to 'size' multiple change requests on the work in progress release and track the impact of each individual CR's count on the overall release baseline. The aggregated collection of counts can then be automatically combined to update the Production Baseline Release. This reflects 'real life' where many different business initiatives make changes to an Application within the same time frame.

SCOPE *also* allows flexibility with *how* and *when* you apply your counts to the baseline E.g.:

- **'Cancelled Projects'** - If a change request is already counted on the baseline but the project was not approved then the cancelled Count Session can be deleted in a key stroke. All impacts from the count session are removed and the integrity of the Release is retained. All other counts recorded on the same baseline will not be affected, even if they made changes to the same elementary processes or data groups.
- **'Postponed Projects'** - If a change request needs to be counted but will not be implemented in the current Release, then it can be counted on the current Release baseline and selectively 'held over' and not incorporated into the Production baseline when it is updated. However, it is automatically retained in the baseline count used for counting and kept up to date until a decision is made to re-instate it or get rid of it. This saves having to recount at a later date and the count in the meantime has been maintained such that it will reflect the 'latest' complexity status and the links between processes or data groups in its scope.
- **'Conversion Projects'** If a change request is not to be recorded in the Production count. This would occur for changes to the functionality required to be recorded at Project level but not to be implemented into the production version of an application (e.g. conversion functionality). The size of the CR can be retained in the Release project count and automatically 'not applied' to the Production baseline count. This saves having to selectively 'trim' your count prior to update.

Automatic Synchronization of the Baseline - The 'impacts' from a Change Request can also be imported and exported from a baseline. The need for this would occur when someone had updated the baseline on a copy of the database, but in the meantime the original baseline had been revised. The counter can then synchronise their 'count' with the latest revised version of the Baseline by selecting to 'import' a count. SCOPE applies its intelligence to apply the impacts of the count on the revised baseline. I.e. if a process in the count is *deleted* it will find the process on the revised baseline count and mark it as deleted. If the process has been *changed* then it will be updated and marked as 'changed'. If a new process is *added* then SCOPE will find the correct parent in the revised baseline count and insert the process under its correct parent.

If you have multiple counters counting on the same baseline at the same time, they can do their counts on their own version of the database, then export them and import them into a master SCOPE database and SCOPE will manage them so the integrity of the master version is maintained.

Comparison to FPW –

- *FPW does not enable concurrent counts for the same Release. If counts are recorded on a copy of the baseline then each count overwrites the previous one when updating the baseline resulting in a corrupted baseline count*
- *FPW does not allow a 'count' impact to be imported and merged with other counts, it only allows branches to be imported and exported. Many clients report significant overhead in managing their counts to ensure that the Master Baseline is not overwritten by counts applied in the wrong sequence*
- *FPW does not provide functionality for multiple counters to be working on the same baseline count at the same time such that their work can be merged without the risk of overwriting*
- *FPW does not allow the capability of counting remotely then merging the completed count back into the 'current' functional model*

Benefits of *SCOPE* for Managing the Integrity of the Database:

- ***SCOPE saves significant costs and time*** incurred by FPW users having to manually :
 - ***'Fix'*** the baseline after counts have been updated in the 'wrong' sequence
 - ***'Restore'*** the baseline when an 'incorrect' count has been applied on the same baseline as other correct counts and needs to be manually removed
 - ***'Merge'*** multiple counts performed by multiple counters assigned to count the same project or baseline to respond to an urgent business need. Urgent counts can be completed to respond to the business in a more timely manner
 - ***'Re-applying'*** counts to retrospectively adjust for changed project implementations and cancellations
- ***SCOPE flexible database management enables counters to be located onshore/offshore home or in the office*** where they can count 'off line' or remotely and then synchronise counts by merging the results back into the 'current' master current version of the baseline

2 SCOPE maintains the Security and Confidentiality of the Data

SCOPE's unique capability to synchronise and extract counts allows the Metrics Manager to select to 'Snapshot' the Release Model to a separate database enabling counts to be:

- **Validated** *before* they are merged into the current baseline so as to avoid corrupting the master data repository
- **Private** – counts are only provided to other counters on a 'needs to know' basis. I.e. it allows the repository manager to keep the project size data of other business areas private and only accessible to the Repository Manager in the master database
- **Secure** - Commercially sensitive projects can be counted 'offline' and only if and when they are approved for public knowledge, then they can be merged back into the current baseline

Comparison to FPW –

- *FPW has no ability to synchronise counts done 'offline', therefore counts have to be manually re-applied once approved*
- *FPW can only apply security at the database access level and does not allow for segregation of the database and later synchronisation*

Benefits of SCOPE for Managing the Security and Confidentiality of Data

- **SCOPE saves significant costs** incurred by FPW users:
 - *Manually applying counts that have been completed on a different baseline*
 - *Fixing counts that have been applied without validation*
- **SCOPE can assist in retaining confidentiality** of 'sensitive' planned projects

3 SCOPE reduces risk of database corruption

SCOPE databases are easily identified and saved as a single *.FPA file that is *Microsoft ACCESS®* compatible. Users can use *Microsoft ACCESS®* to customise and create their own SCOPE reports.

Comparison to FPW

- *FPW saves to an early technology format (Paradox database of 42 individual tables). All 42 tables need to be copied and transferred whenever a count database is copied. This creates an issue if for some reason the copy on just one of the files or indexes fails, then the whole database is corrupted and irretrievable.*

Benefits of SCOPE using a single 'file' database

- *SCOPE significantly reduces the chances of a **counter failing to copy across all files** and thus making their database unusable*

4 **SCOPE provides the evidence for Project Managers to charge for Rework**

SCOPE enables multiple counts to be performed on the same functional model throughout the development lifecycle. Projects often impact the same functions multiple times in project lifecycle. I.e. new functions or data groups may be added by the project then changed several times or even deleted at the users' request. **SCOPE** has the unique capability to track this *rework*. It is able to report cumulative size of the rework in addition to the net functionality delivered (the net result of the delivered software).

Comparison to FPW –

- *Since FPW does not enable concurrent counts for the same release, it is not able to record or calculate the extent of rework in cases where the same process or data group is changed several times within a release or subsequently deleted in a descoping exercise*

Benefits of *SCOPE* for Measuring Rework

- ***SCOPE** enables project managers to have their project **quantitatively accredited for the full extent of the project changes** and provide objective evidence for seeking additional payment or special consideration for the resulting lower project productivity rate*
- ***SCOPE** records, measures and reports the full size of the functional impact of a project providing evidence for the outsourcing supplier to justify charging the client for multiple impacts on the same function on the same Release*
- ***SCOPE** 's measure of rework assists developers to objectively demonstrate the impact of significant churn or rework and the resulting low productivity rates. This is particularly important when managing client expectations in outsourcing contracts*

5 **SCOPE** makes it easy to upgrade from other tools

SCOPE can be downloaded from the Total Metrics WWW site and installed in minutes. You can import your historical count data into the **SCOPE** structure from:

- EXCEL spreadsheets
- Function Point WORKBENCH™ (all count details [transactions, data groups, links, notes and labels] as well as project and application details) - Imports ALL versions

Comparison to FPW

- *FPW only imports process and data group data from its own template Excel spreadsheets but any descriptions for the processes or notes documenting the count are not able to be imported*
- *FPW is not able to import any data from **SCOPE***

Benefits of *SCOPE* for easy implementation

- ***SCOPE** allows you to quickly upgrade from your existing count environment to counting in **SCOPE** without risk of losing your historical count data*

6 **SCOPE** can be used by Novices

SCOPE has a modern Windows XP® and Vista® standard intuitive interface which optimises the use of Windows 'shortcuts' and function keys. All the key components of a count (Processes, Data, Notes and Attributes) have been modelled to behave identically so that once the User learns to maintain, link and report one component (which is similar to the way MS Explorer® works), they can effectively use all **SCOPE** functionality.

SCOPE Viewer™ has proven that Users who have no function point knowledge or FP tool experience can effectively review counts and run reports in **SCOPE**

Comparison to FPW

- *FPW's user interface design pre-dates MS Windows standardization. Many of the function key and short-cuts are non-Windows standard, making it very difficult for new users to learn, remember and accept without becoming frustrated. This often results in Failure for counters to migrate from their spreadsheets to FPW*
- *FPW uses different structures, concepts, rules, and function keys for each of the count components (transactions, files, notes and labels) thus requires extensive training on how to specifically maintain each type of count component and takes time to be competent in its use*

Benefits of *SCOPE* for ease of learning

- ***SCOPE** can be used effectively with **minimal or no training** by anyone, thus making count results immediately accessible to new FPA staff and business users who review counts*
- ***SCOPE** significantly **reduces training time and costs***
- ***SCOPE** makes it easier for new users to migrate from counting on spreadsheets*

7 **SCOPE** is more cost effective when recording counts

SCOPE was *designed* by function point counters *for* function point counters, to make counting fast, effective, auditable and well documented. The key component to this objective was to have all features in **SCOPE** performed on the single main screen avoiding the time wasting tasks of navigating through overlapping multiple windows.

SCOPE displays all four count components (Processes, Data, Notes and Attributes) as Hierarchy trees such that the majority of any tree's nodes are visible AND readable on a single screen, thus avoiding time wasted in scrolling vertically and horizontally to understand a functional breakdown.

The split screen display allows linking of all count components to be completed with a single mouse click without changing windows.

Data, Notes and Attributes can all be hierarchically modelled and catalogued into folders to facilitate locating them and understanding their relationships when linking to a Logical Data Group or Note to a Process. All branches within any tree can be automatically sorted in a sequence of the user's choice.

SCOPE has an MS Windows standard 'search and replace' function enabling quick up and down searches to find any text in the name or description of any count component (Process, Data, Note or Attribute)

SCOPE allows the counter freedom to use meaningful names and descriptions that best describes any of the count components and always displays the full name without truncation.

SCOPE provides further flexibility for ease of searching and linking by allowing the user to flip the dominant components from the left hand or right hand tree. I.e. unlike FPW it is not driven from a fixed single directional left to right 'transaction tree' view. You can put the focus of the main window on any one of the Process, Data, Notes or Attribute Trees and then drive the count and the links from that view for ease of linking, filtering and reporting.

Comparison to FPW

- *FPW's circa 1990 user interface forces the counter through multiple overlaying windows just to complete a simple function such as linking a process to a new datagroup, over the course of a large count this can add up to 30 % more effort and cost for a count*
- *FPW limits all text fields to 8, 20 or 32 characters. Longer names are truncated in the display boxes. Counters waste valuable time compacting and truncating the specification names used by the business to 'fit' them within space constrained by FPW's pre-sized boxes*
- *FPW keeps, stores and displays all count components other than processes as a flat list. The order and sequence of the displayed lists cannot be customised, nor can the components be grouped and catalogued for ease of review and maintenance of the counts*
- *FPW drives everything from the Transaction hierarchy and does not cater for decomposing Data into RETs and DETs thus making the auditing, maintenance, and managing of the Files much more complex and time consuming*
- *FPW does not allow the user put the name and description for processes, thus limiting the capability to describe and document it for ease of maintenance*

Benefits of *SCOPE* for Ease of Recording Counts

***SCOPE* saves staffing time and associated 'costs' for counting and count reviews by allowing users to:**

- *do all counting without constantly switching screens and losing continuity*
- *use meaningful names making counting and reviewing faster and **count maintenance easier***
- *structurally model and customise the sequence of all count components including Notes and Data for **ease of review and ongoing maintenance***
- ***perform quick easy linking and highlighting** links when profiling the count to answer business questions*

8 **SCOPE is more cost effective when Maintaining and Auditing Counts**

SCOPE was designed with the concept of making it quick and easy to maintain counts of each new change request and making it easy to document and report count decisions to assist in auditing.

SCOPE does this by providing the capability to:

- **Quickly record project changes** (new functions, changed functions and deleted functions) with a single mouse click on pre-existing counts
- **Full Audit Trail of Changes – records the details of WHO changed any Process or Data Group, Note or Attribute and WHEN the change occurred**
- **Detailed Count Reports** that list exactly how a process was counted, not just its type and complexity (i.e. Ranges selected, numbers entered by the user or just defaulted)
- **Detailed Documentation in Reports** - that list for each process which Data Groups, RETs and DETs it accesses and the type of access. (**SCOPE** will actually automatically derive process and data group complexity from these links to significantly reduce counting time and increase accuracy)
- **Hierarchal modelling** of Data, Notes and Attributes in addition to Functions and Elementary processes
 - **Data** - **SCOPE** enables you to group your related data into Folders, then within a folder sort them in any order you choose and decompose them and name them at Data Group (ICF/EIF), RET and DET level and to link Processes, Notes or Attributes at any level. **SCOPE** models the Data hierarchically into its RETs and DETs. Processes can be optionally linked to DETs, RETs and Logical Data Groups for greater accuracy of recording and easy auditing
 - **Notes** – **SCOPE** allows any comments or Notes to be grouped into SETS which can in turn be decomposed in a similar way to a Table of Contents. Notes can be of any length and arranged and re-arranged and sorted in any order. For importing your specification just copy the list and import directly from an EXCEL spreadsheet
 - **Attributes** – **SCOPE** also models Attributes (key words / labels) into Categories as hierarchical trees. Attributes are not mutually exclusive i.e. Processes can be assigned more than one Attribute within a Category. Data can also be linked to Attributes.
- **One step linking** of any Process, Data Group, Note or Attribute (label) without swapping windows.

Comparison to FPW –

- *FPW requires opening up numerous windows just to link to a new File, Note or Label. For example it takes 5 separate windows just to link a new file to a process*
- *FPW requires the user to sift through 'layers and layers' of windows to create or view links of any kind*
- *FPW displays both Files and Notes in a flat list of which the order and grouping cannot be controlled. A particular File or Note is difficult to find and without running a query you cannot find out which Notes are linked to what Transactions or Files*
- *FPW does not report how a Process or Data Group was counted it just reports if it is High , Ave or Low complexity*
- *Labels in FPW can only be assigned to Transactions and not Data which provides very limited capability in profiling counts*

Benefits of *SCOPE* for facilitating maintenance and auditing:

- *SCOPE* significantly enhances **a counters capability to document their counts so that every change is traceable; every count decision is auditable and easily able to be justified. This takes the contention out of supplier / client counting disputes.**
- *SCOPE*'s ability to cross-reference all processes to DETs as well as FTRs and report count details makes counts **more accurate, auditable and traceable**
- The ease of reporting count details in *SCOPE* makes auditing **faster, cheaper and more accurate**

9 *SCOPE* facilitates more Accurate and Consistent Counting

SCOPE has an inbuilt expert system (FP Decision Maker™), designed by authors and reviewers of the IFPUG Counting Practices Manual, that steps counters through the IFPUG CPM decision logic when trying to determine the type or complexity of a function. This ensures that counters are reminded of the IFPUG guidelines and make count decisions via a consistent and auditable process.

SCOPE has a fully indexed ROBOHELP Help system for all functionality. This help accesses the Total Metrics www site to give the user the very latest HELP for all functionality and embedded Flash Tutorials on most counting activities. Both HELP and the Tutorials are updated every *SCOPE* Release and because it is online is updated dynamically whenever we identify another area where it can provide assistance.

Comparison to FPW

- *FPW* does not provide any automated counting assistance
- *FPW* has a much older technology 'User Manual' style HELP

Benefits of *SCOPE* for Expert Assistance

- *SCOPE* saves 'costs' of recounting and reduced auditing time by **providing an expert system 'mentor' to novice counters.**
- **Online 'Flash' Tutorials for all count activities**

10 SCOPE counts are more understandable by the Business Users

SCOPE's way of recording functional size takes into account the way we develop software today i.e. It recognises in the way it structures its Applications, Release, Projects and Counts such that :

- a users business initiative (Project) may have many change requests that impact one or many different software applications and sometimes have more than one CR that impacts a single Release of one of the applications
- software tends to be developed on a Release based approach rather than an approach where each Change Request resulting in a new production version of the software
- each Release may have one or more Change Requests belonging to either same or different projects. These Change Requests need to individually sized since they contribute to different projects and are often run by different teams and approved independently

SCOPE enables a Project to record multiple Impacts across multiple Applications and aggregate Function Point size, at Change Request, Application Level, Release Level and at Project Level.

SCOPE can record multiple Impacts from multiple projects on an Application concurrently and be able to maintain and report the different Project Impacts independently.

SCOPE's flexibility allows it to respond to changing project implementation decisions by being able to record the Project Impact on an Application AND be able to decide to not apply it, or to remove it or to hold it over to be applied again at a later date when the project is approved or restarted.

Comparison to FPW

FPW has a linear relationship between software activities and does not provide:

- *any audit trail capability*
- *a graphical hierarchical display that describes the Relationship of all the Counts to the Releases to the Applications*
- *A graphical display that describes the multi-dimensional relationship between Applications, Projects and Counts*
- *A means to record and measure a project that impacts more than one applications*
- *a method to 'hold over' a count and reapply it to the updated baseline when a projects implementation is postponed*
- *a means by which to automatically select to exclude functionality from the baseline update*

Benefits of SCOPE for Modelling the 'real world' of IT

- **SCOPE counts can be dynamically adjusted to reflect what is happening in the development team and the business so project size can be reported as an aggregate of the CRs for input into estimates and project counts can be cancelled or postponed without corrupting the integrity of the baseline**
- **SCOPE structure can provide the corporate model to graphically display the growth of the organisations software portfolio**

11 SCOPE makes Count results freely accessible

SCOPE has advanced cross-referencing and reporting functionality to enable you to easily do online 'what-if' analysis and produce up to 40 different reports instantly.

Multi-User concurrent access to store, record, view and report on a central repository.

Previewed reports, if accepted, can be printed or saved to a file or emailed.

SCOPE allows you to select to export the report to MSWORD or MSEXCEL or HTML, print or preview.

SCOPE reports, Baseline Size, Reworked Size and Current Count Size dynamically at the bottom of the screen as you move through the functional model.

Full Detailed Management Reports are generated online within seconds in print preview mode. The Count Detail Reports actually report the level of detail that a process or data group was counted. E.g. displays the ranges, or actual number of RETs or DETS. This is useful for auditing count results.

SCOPE allows you to extract your count using the SnapShot option to send the full count details to a client. The client can then download **SCOPE Viewer**™ free from the Total Metrics WWW site and install it so they can investigate all aspects of the count, print all reports or provide comments and send it back in softcopy to the counter.

Comparison to FPW

- *FPW does not have multi-user concurrent access to the FPW database*
- *FPW has only one online report. The other limited number of reports can be printed. To view in softcopy requires the output report to be printed to a CSV or a HTML file and then saved. Then, in order to see the report online you have to go into Microsoft Explorer and open the file to view it. This sequence takes several minutes to complete in order to view a single report. If the report indicates an error or omission in the count, the count needs to be fixed and the whole process repeated*
- *FPW provides a HTML report that allows a user to drill down to process and data details but the User can only view the information provided on the report not all the count details, to do that they need to purchase a full copy of FPW*

Benefits of SCOPE for facilitating reporting results

- *SCOPE significantly enhances a counters capability easily review results and save time, effort and costs of printing to find an error.*
- *SCOPE count results can be widely distributed to business users and reviewers and they can see all their count details without having the extra cost of purchasing a SCOPE licence*

Download your evaluation copy of SCOPE today and start counting

www.totalmetrics.com