

TR Sizer

Mosaic's Testable Requirements Sizing Tool

Introducing TR Sizer

Software systems today are the lifeline of most organizations. Today more than ever management needs more visibility into development and maintenance of these critical systems. Measurement is the key. A reliable size estimate is the first step. Understanding the size of a system is the foundation for more reliable estimates, improved visibility and control of system changes, measurement of productivity, and ensuring control and accountability of outsourced work.

Despite their significant and well documented problems, Lines of Code (LOC) and Function Points (FP) have long been the only standard measures of size. Now there is a better way to size systems. Mosaic has pioneered a more practical and intuitive measure of size – *testable requirements*. Requirements are the capabilities necessary for a system to meet its objectives. Testable requirements are requirements that are precise, unambiguous, and not divisible into lower level requirements. Count up the number of testable requirements and you have a reliable measure of the size of a system. Don't have detailed requirements specified? **TR Sizer** is designed to help you estimate the size of the system – even when the requirements are not documented. And it highlights priorities for clarifying requirements.

Key Benefits

- **Estimate the Size of Systems**

Through the use of testable requirements, you will be able to communicate the system size to management, developers, testing staff and end users.

- **Analyzes Risks**

The sizing process includes assessing risk. Based on the sizing, TR Sizer analyzes requirement risk and points out potential requirement gaps and inconsistencies. You can plainly see where the real issues lie and make changes before it is too late.

- **Captures Assumptions**

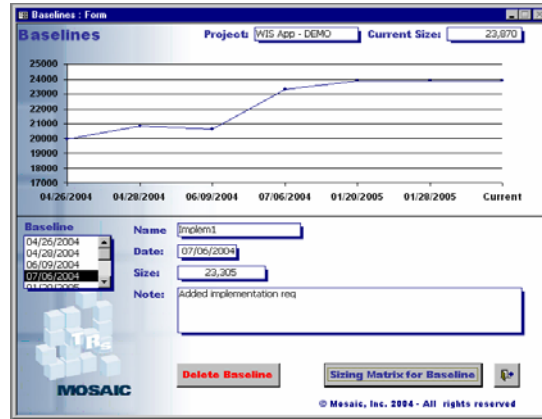
TR Sizer captures the assumptions on which the estimates are based. As the size changes, the reasons for the change will be clearly documented.

BASELINE Sizing Matrix						
Project: WIS App - DEMO		Total Size: 23,305 TRs Baseline on 07/06/2004			Owner: Martin Manager	
High Level Requirement (HLR)	Risk Level	Intermediate Level Requirements (ILR)			Testable Req. (TRR)	
		Count	% Identified	Projected	Per ILR	Projected
1 Capture Vendor Orders	3	22	80%	28	40	1,100
2 Process WH Disburse.	3	40	70%	57	30	1,714
3 Process WH Receipts	3	50	70%	71	30	2,143
4 Update WH Phys. Inventor	3	45	60%	75	26	1,950
5 Proc. Dealer Receipts	4	20	50%	40	30	1,200
6 Upd. Dealer Physical Invent	4	35	70%	60	20	1,000
7 Generate Inventory Reports	2	44	70%	63	35	2,200
8 Convert Files	3	30	80%	38	60	2,250
9 Replicate Web Sev. Files	2	10	80%	12	50	625
10 User Documentation	1	14	20%	70	30	2,100
11 Training	2	22	40%	55	30	1,650
12 Security	2	50	60%	83	10	833
13 Performance	5	5	30%	17	20	333
14 Data Transfer	4	15	90%	17	25	417
15 Audit and Control	3	10	60%	17	15	250
16 Backup and Recovery	4	14	50%	28	30	840
17 Implementation	5	38	80%	45	60	2,700
Total:						23,305

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Red: Warning - Possible Risk
Orange: Alert - Potential High Risk
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- **Control Scope Creep**

Managing system scope is critical to the success of a project. Often problems are due to unrecognized changes. TR Sizer allows you to baseline the system using the original requirements. As the requirements change, TR Sizer will make the impact of change visible so it can be managed.



- **Independent of Coding Language**

Unlike LOC, the testable requirements size measure is independent of programming language.

Who Can Benefit from TR Sizer?

TR Sizer is beneficial to all levels of management. After the system has been sized, the work effort and resources needed become easier to estimate. The determination of the system size is also beneficial to project managers for estimating, change management, risk management, more effective measurement and earned value.

About Mosaic, Inc.

Mosaic, Inc. was established in 1988 and is headquartered in Chicago, IL. Mosaic is dedicated to helping its clients reduce the risk of developing and maintaining complex software systems. We focus on solving the problems of delivering high quality software on time and at an affordable price.

Our clients are large organizations from a wide variety of industries. Our testing consultants are seasoned, hands-on professionals who understand the pressures faced by today's software developers and project managers.

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