



Verona: On-Time, On-Scope, On-Quality

All project teams struggle to meet the potentially conflicting objectives of delivering on-time, with all committed features and with the highest levels quality. And despite constantly changing priorities and requirements, there are no acceptable excuses or tradeoffs. Customers expect delivery on all 3 fronts simultaneously. Verona helps you succeed by providing unparalleled visibility into every aspect your development program, and tools to fully understand the impact of change.

Visibility:

- Know the exact development status of every customer requirement
- Know the status of every development artifact associated with each requirement - specifications, designs, code, test cases. Know when things are really done. Does design specification 'done' mean there is a draft on someone's 'C-Drive', or does it mean that it has been written, reviewed, all review issues closed, and it has been released under document control?
- See the progress trends for any facet of the project: requirements defined and approved; development artifacts developed, reviewed and approved; test cases written, executed and passed.

Traceability:

- Trace all development artifacts back to individual requirements and see gaps plus associated risks.
- Get a clear picture of the test coverage planned for each requirement.
- Get comprehensive reports on the status of test execution.

Risk Management:

- Get a report of all missing project artifacts on a single screen.
- Intervene at the earliest possible opportunity to make corrections when things are not on track.
- Get notified immediately when changes are made to requirements.
- Ensure instantaneous communication to the entire team when significant changes occur that represent risk



Verona: Overview

Verona Core Functionality comprises three integrated modules: Requirements Management, Test Management and Artifact Management. These modules operate on a common data repository making sharing and exchanging data between modules straightforward, providing built-in traceability and eliminating the data redundancy and conversion overhead when using standalone tools.

Requirements Management

Verona Requirements Management provides a framework for controlling the requirements lifecycle, providing clear definition of release content, with end-to-end traceability. Verona benefits all stakeholders – product marketing, project management, engineering and test teams, by ensuring there is one common set of requirements for the project, that all changes are controlled and communicated, and that the precise development status of every requirement is visible.

- **Requirements Repository** – Requirements are stored in a database. Approved requirements can be allocated to specific projects or releases.
- **Requirements Templates** – capture multiple attributes: titles, descriptions, customer information, priorities, implementation status.
- **User-Definable Attributes** – Users can define their own requirements properties with attributes useful to their business or product types
- **Multiple Requirements Types** – specify different types of requirements: product requirements, system requirements, use cases. Impose structure and traceability.
- **Unique Requirement Identifiers** – Requirements identifiers are auto-generated. Customizable prefixes can be specified.
- **Text Editor** - Full featured text editor for entering requirements details
- **Release Planning** - Simple interface for assigning requirements to a release. Requirements can be added individually or bulk imported from the requirements repository.
- **Traceability** – link requirements to other development artifacts such as specifications and test cases. Impose hierarchical structure to show the connection between system requirements and product requirements. Run reports to show how test case coverage for each requirement in a release.
- **Requirements Lifecycle** - Define a set of states and events triggering state changes.
- **Role-Based State Changes** - Define which user roles can cause requirements state transitions.
- **Track Changes and History** - a complete history of all changes to requirements is maintained showing timestamps and who changed. All stakeholders can be informed via email alerts of all changes.



Release Requirement Planning and Progress

DRCS Requirements FRs: 9 TRs: 42

RM Home > Add/Edit Features

[New FR](#) • [Import FRs](#) • [Customers](#) • [Products](#) • [Rearrange](#)
[Definition Status](#) • [Planning Status](#) • [Dev Status](#) • [QA Status](#) • [Dev Assignment](#) • [QA Assignment](#)

Display Options: Show Desc Hide TR Show Missing TR Show Discussion Show Products Show Att

#	Req. ID	Issue ID	Requirement Name/Description	Priority	Status				Assignee		Remove FRs	Add/Remove TRs
					Definition	Planning	Dev	QA	Dev	QA		
1	FR-664		ePM Comments (0)	Critical	Accepted	Committed	Dev Started			SMITH,JOHN EVERETT,CLIVE		New TR
2	FR-665		RM Comments (0)	Critical	Accepted	Committed	Dev Started			SMITH,JOHN EVERETT,CLIVE		New TR
2.1	TR-777		Can't export to Excel, when running Find requirements Search Comments (0)	Critical	Accepted	Committed	Dev Completed	QA Started		SMITH,JOHN EVERETT,CLIVE		✗
3	FR-666		Doc Control Comments (0)	Critical	Accepted	Proposed	Not Started				✗	New TR
3.1	TR-698		Why is there no sign-out capability? Comments (0)	Critical	Accepted	Proposed	Not Started			SMITH,JOHN EVERETT,CLIVE		✗
4	FR-667		Code Insp Comments (0)	Critical	Submitted	Proposed	Not Started				✗	New TR
5	FR-668		TM	Critical	Submitted	Proposed	Not				✗	New TR

Requirements Test Coverage Report

Progress By Feature: (# Features: 8)
Onyx SI&T test plan
[Print Version](#) | [Charts](#)

	Total	Run	Pass	P/E	Fail	Block
Totals :	155	155	153	2	0	0

fid	Product	Feature	Test Cases	Test Status						%Percentages					
				Run	Pass	PE	Fail	Blck	NS	Run	Pass	PE	Fail	Blck	NS
3928	BMI	Interface for configuring multiple regional TS services	18	18	18	0	0	0	0	100	100	0	0	0	0
3929	BMI	TSX to provide the ability to download multiple SI/EPG data from external URLs	2	2	2	0	0	0	0	100	100	0	0	0	0
3930	BMI	TSX to expand the emerald single channel lineup	44	44	44	0	0	0	0	100	100	0	0	0	0
3931	BMI	TSX to update nPVR interface to support regionalized TS service	23	23	23	0	0	0	0	100	100	0	0	0	0
3932	BMI	TSX behavior with TS recording	17	17	17	0	0	0	0	100	100	0	0	0	0
3933	BMI	TSX behavior with captured asset play requests	6	6	6	0	0	0	0	100	100	0	0	0	0
3934	BMI	TSX system support requirements	7	7	6	1	0	0	0	100	85	14	0	0	0
3763	SC	SC: Ranged Playlist Support In ODS Adaptor	0	0	0	0	0	0	0	0	0	0	0	0	0

Test Management

Verona-Test Manager simplifies the process of creating test cases, test planning, tracking and reporting the status of test case execution. The system will support organizations of any size, and is the ideal solution for multi-site projects, where close collaboration and real-time access to project status is essential.

- **Test Case Repository** – Test cases are stored in a database, where they can be maintained and re-used over time. Test cases can be selected from this repository to create test plans.
- **Test Case Templates** – capture multiple attributes: titles, descriptions, customer information, priorities, implementation status.
- **User-Definable Attributes** – Users can define their own test case properties with attributes useful to their business or product types

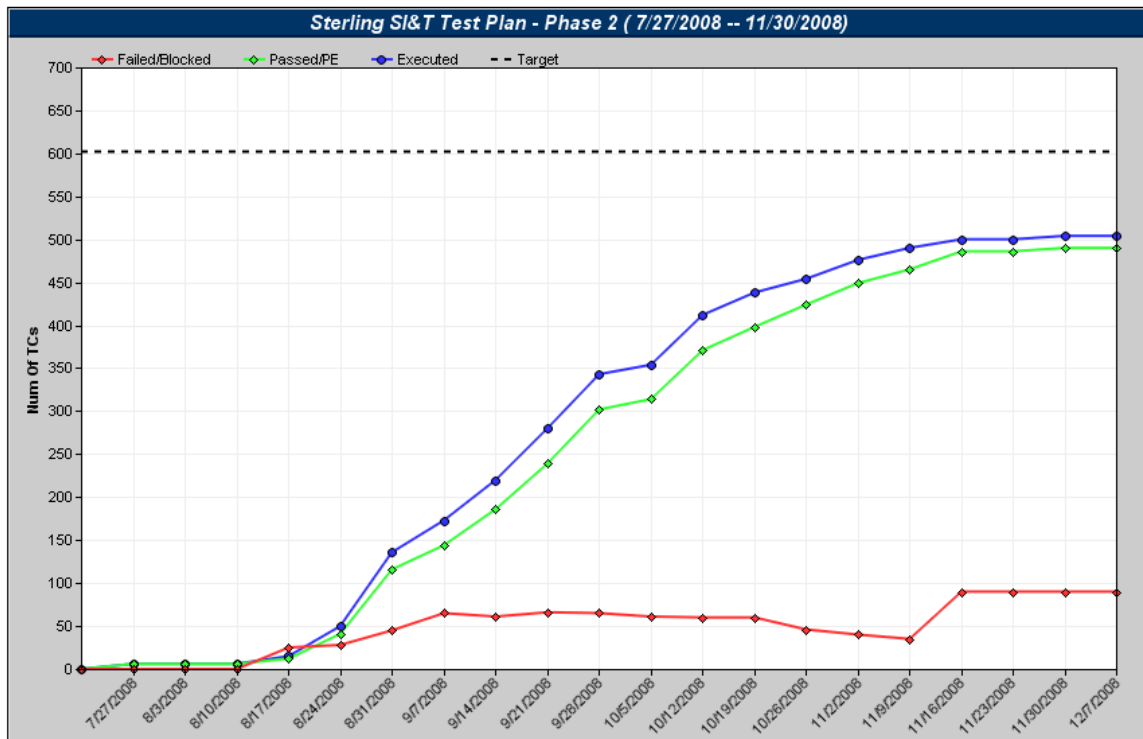


- **Searches and Bulk Edits** - Comprehensive search and edit functions. Test case cloning functions supports fast creation of new test cases.
- **Test Planning** – bulk import test cases from the test library. test plan editor, create test runs with subsets of the test plan. Assign test cases to test engineers by test run or by test plan.
- **Requirements Traceability** – integrates with the Verona Requirements Management application so that test cases can be linked back to product requirements or individual features. Ensure you have complete test coverage for every deliverable in the project.
- **Test Status Logger** - Testers get visibility of test cases assigned to them. Testers can update test execution status - Passed. Failed, Blocked.
- **Comprehensive reporting with charts** - Display test status by overall test plan or each individual test run.
- **Email alerts** - Generate email alerts for key events such as test cases status updates, new test cases created or cloned.
- **Configuration and Administration Functions** - define test categories, project names, product names, product functional areas, product features. Register users, roles and privileges. Configure email settings and alerts.

Test Execution Status Report

Weekly Test Progress:
Sterling SI&T Test Plan - Phase 2
[Print Version](#) | [Show Data Only](#)

	Total	Run	Pass	P/E	Fail	Block
Totals :	602	520	474	32	14	79





Week Ending	Weekly					Plan Status				%Run	%Pass	%Fail
	Run	Passed	P/E	Failed	Blocked	Run	Pass	P/E	Fail			
7/27/2008	6	6	0	0	0	6	6	0	0	1	100	0
8/3/2008	0	0	0	0	0	6	6	0	0	1	100	0
8/10/2008	0	0	0	0	0	6	6	0	0	1	100	0
8/17/2008	9	6	0	3	22	15	12	0	3	2.49	80	20
8/24/2008	35	24	5	6	4	50	36	5	9	8.31	72	18
8/31/2008	87	66	10	11	23	136	101	15	20	22.59	74.26	14.71
9/7/2008	47	29	3	15	27	173	127	17	29	28.74	73.41	16.76
9/14/2008	57	45	7	5	4	220	162	24	34	36.54	73.64	15.45
9/21/2008	77	65	1	11	12	280	214	25	41	46.51	76.43	14.64
9/28/2008	86	71	8	7	4	343	275	27	41	56.98	80.17	11.95
10/5/2008	14	14	0	0	0	354	287	27	40	58.8	81.07	11.3
10/12/2008	71	55	10	6	3	412	335	36	41	68.44	81.31	9.95
10/19/2008	37	32	3	2	1	438	363	35	40	72.76	82.88	9.13
10/26/2008	46	29	11	6	5	454	392	32	30	75.42	86.34	6.61
11/2/2008	28	26	1	1	6	476	417	32	27	79.07	87.61	5.67
11/9/2008	26	25	0	1	0	490	434	31	25	81.4	88.57	5.1
11/16/2008	27	24	3	0	74	500	456	30	14	83.06	91.2	2.8
11/23/2008	0	0	0	0	0	500	456	30	14	83.06	91.2	2.8
11/30/2008	5	5	0	0	0	504	460	30	14	83.72	91.27	2.78
12/7/2008	0	0	0	0	0	504	460	30	14	83.72	91.27	2.78

Project Artifact Management

Verona Artifact Manager organizes all of the key development artifacts in a common repository, providing visibility of the precise status of each item. Artifacts are organized by project so project teams can see the total picture in one place, and quickly identify gaps and risks. Artifact Manager delivers a robust solution to organize, control, search and keep safe all of your project documents.

- **Standards Compliant** – Satisfies all requirements of ISO9001 and TL9000.
- **Audit Trails** – a detailed time-stamped history of all changes is maintained.
- **Reports and Metrics** – a comprehensive set of reports and metrics is available
- **Integrated Document Reviews** – make document reviews an integral part of the approval cycle.
- **Track Changes and History** - a complete history of all changes to documents is maintained showing timestamps and who changed what. All stakeholders can be informed via email alerts of all changes.
- **Traceability** – link documents to other development artifacts such as projects, products or feature names.
- **Configuration and Administration Functions** - define defect categories, project names, product names, product functional areas, product features. Register users, roles and privileges. Configure email settings and alerts.

Project Artifacts – Completion Status



Program Artifacts - Project Onyx

	Doc Num	Doc. Type	Document Title	Doc Rev.	Creation Date	Author	Approval Status
Market Requirements							
1	4139	G11	Gate 11 Review	0.1	4/3/2009	THOMSON, STEVE	Approved
2	4116	PMR	Onyx PMR	0.2	3/16/2009	ZHU, YU LIN	Approved
Technical Requirements							
1	4025	PFS	Onyx Software Functional Specification	0.3	1/11/2009	ZHANG, HONGFEI	Approved
Project Plans							
1	4065	DP	Onyx Technical Publications Plan	0.1	2/13/2009	CRAWFORD, TRISH	Under Review
2	4141	EPS	Onyx Project Schedule	0.1	4/3/2009	THOMSON, STEVE	Approved
3	4142	G7	Project Plan Review	0.1	4/3/2009	THOMSON, STEVE	Approved
Design Specifications							
1	4165	FITP	BMI Onyx Test Plan	0.1	4/14/2009	WU, JICHAO	Approved
2	4156	G6	Gate 6 Review	0.2	4/13/2009	THOMSON, STEVE	Approved
3	3215	SDD	Real-Time Recording Application Interface Specification	1.2	10/25/2007	YU, HAILIANG	Under Review
4	3216	SDD	TSTV Scheduling Publishing Interface Specification	1.3	10/25/2007	YU, HAILIANG	Under Review
5	4038	SDD	Onyx Regional nPVR and TSTV Improvement Design	0.8	1/20/2009	ZHENG, YONG-YUE	Under Review
6	4070	SDD	Contents migration design for NanJing site	0.3	2/17/2009	LIU, JIANSHE	New
Test Plans							
1	4072	FITR	Oynx BMI FIT Results	0.1	2/18/2009	WU, JICHAO	Approved
2	4152	G5	Gate 5 Review	0.2	4/10/2009	THOMSON, STEVE	Approved
3	4064	RHR	BMI Release Handoff Report for Onyx	0.4	2/12/2009	MO, FAN	Approved
4	4059	SITP	Onyx SI&T Test Plan	0.3	2/6/2009	LOU, ZHAOLIN	Approved