Dynamic Object Oriented Requirements System (DOORS), System Test Plan

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management



Richland, Washington

Contractor for the U.S. Department of Energy Office of River Protection under Contract DE-AC06-99RL14047

Approved for Public Release

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A. Information Category		6251
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E. Required Information	L	4 Does Information Contain the Following: (MANDATORY)
1. Is document potentially Classified? 🔀	No Yes (MANDATORY)	a. New or Novel (Patentable) Subject Matter?
Acception for si	mature 5-10-00	
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Counsel		5. Is Information requiring submission to OSTI? X No Yes
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3. References in the Information are App	ied Technology 🛛 No 🗌 Yes	6. Release Level? 🛛 Public 📋 Limited
Export Controlled Information		7. Charge Code 112003 / A000 HMLM0441
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1 Title of Journal		
	G. Complete fr	or a Presentation
1. Title for Conference or Meeting		
2. Group Sponsoring		·
3. Date of Conference		4. City/State
5. Will Information be Published in Proceedin	gs? 🔲 No 🛄 Yes	6. Will Material be Handed Out? 🔲 No 🔄 Yes
H. Author/Requestor		Responsible Manager
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A. L. Johnson Lockheed Martin Services, Incorporated

Date Published April 2000

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management



P. O. Box 1500 Richland, Washington

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RPP-6251, Rev. 0

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Dynamic Object Oriented Requirements System (DOORS), System Test Plan

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A-6001-400.2 (09/94)

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4/7/2000

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4/11/2000

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1 INTRODUCTION

1.1 Purpose

The U. S. Department of Energy, Office of River Protection (ORP) will use the Dynamic Object Oriented Requirements System (DOORS) as a tool to assist in identifying, capturing, and maintaining the necessary and sufficient set of requirements for accomplishing the ORP mission. By managing requirements as one integrated set, the ORP will be able to carry out its mission more efficiently and effectively.

DOORS is a Commercial-Off-The-Shelf (COTS) requirements management tool. The tool has not been customized for the use of the PIO, at this time.

1.2 Scope

This test plan will be used as the primary medium for communicating acceptance testing criteria. It will include the testing scenarios created to test the requirements listed in RPP-5865, Office of River Protection, Project Integration Office, Requirements Management System, Requirements Specification. This test plan will also address other system testing needs, as determined by the DOORS technical team.

This test plan is limited to the use of the DOORS tool, no data will be verified or tested. Testing will be performed to demonstrate the high level ability for the tool to meet the requirements. It does not apply to manual requirements management business processes defined by the user.

1.3 Overview

The ORP Project Integration Office (PIO) has been tasked with the identification, capture, and maintenance of requirements imposed upon the River Protection Project (RPP). The PIO Requirements Management team has identified an initial set of source documents that will be the first to be entered into DOORS. User defined attributes will be assigned to each of the objects created within the source document modules.

1.4 Definitions

<u>Project</u> - The highest level of distinction within DOORS. Each project is a unique database that has its own independent set of users who can access information contained within it.

<u>Modules</u> - All information contained in DOORS is stored in Modules. DOORS module classes include formal, descriptive, and link.

Formal Module: A DOORS module containing structured sets of similar information.

Descriptive Module: A DOORS module containing unstructured source information.

Link Module: A DOORS module containing and managing relationships between other data elements.

<u>Objects</u> - A DOORS Object is the basic building block of every DOORS module, and typically contains a requirement. Objects can be created deleted, edited, copied, and moved. Each object has a unique identifier that cannot be changed.

<u>Attributes</u> - All modules, objects, and links possess Attributes, both system defined and user defined. System defined attributes include a unique identifier, creation date and when the object was last modified. Any number of user defined attributes can be created.

<u>History</u> - All changes made to modules, objects, and attributes are recorded in module history. The module history records who made the change, when, and what the change was.

1.5 Acronyms

BNFL	British Nuclear Fuels, Limited
CHG	CH2M Hill Hanford Group
CIO	Chief Information Officer
COTS	Commercial Off-The-Shelf
СР	Change Proposal
DOE	U. S. Department of Energy
DOORS	Dynamic Object Oriented Requirements System
DXL	DOORS Extension Language
HLAN	Hanford Local Area Network
LMSI	Lockheed Martin Services, Incorporated
NT	New Technology
ORP	U. S. Department of Energy, Office of River Protection
OS	Operating System
PHMC	Project Hanford Management Contract
PIO	Project Integration Office
PNNL	Pacific Northwest National Laboratory
PRRB	Production Readiness Review Board
QSS	Quality Systems and Software, Incorporated
RL	U. S. Department of Energy, Richland Operations Office
RPP	River Protection Project
SQL	Standard Query Language

2 TEST PLAN

2.1 Test Items

A variation of the Requirements Traceability Matrix provides the description for the testing of customer requirements. Refer to Appendix A. The matrix was derived from RPP-5865, Office of River Protection, Project Integration Office, Requirements Management System, Requirements Specification.

Additional testing will be performed on infrastructure, network, and server test cases, as determined by the LMSI technical team.

Test cases may provide explicit test steps for testing a requirement but where such details are not provided it is expected that a knowledgeable tester will use his or her knowledge of DOORS and of the requirements to appropriately test a requirement.

The LMSI DOORS technical team will perform all test cases. The DOORS users will be invited to participate in the testing. During user testing, members of the LMSI technical team will be available for providing additional information about interpreting the makeup and intent of specific test cases.

2.2 Features to Test/not Test

Every requirement listed in the Requirements Traceability Matrix was evaluated for testing criteria. DOORS is a COTS product and not all of the available functionality will be used by the PIO. This test plan focuses on the functionality needed to fulfill the user-defined requirements. Requirements that will be tested are sorted into related groups and will be tested in test cases of the following areas:

- Change Proposal System
- User Access
- Filtering, Sorting, and Reporting
- Project, Module, and Attribute Creation and Manipulation
- DOORSNet

The following requirements do not refer to the use of the tool or do not contain enough specific information to warrant testing:

No.	Requirement	Resolution
5	Their querying and reporting will be infrequent. Any electronic tool must be intuitive in order to keep support costs to a minimum.	General use of DOORS will be via DOORSNet, which requires minimal introduction for use.
10	Will identify potential new requirements and make recommendations to ORP management and a requirements change board.	Identification of new requirements is developed through human interface.
11	Will make recommendations to ORP management and a requirements change board.	Recommendations are made through a human interface.

No.	Requirement	Resolution
16	Will identify potential new interface	Identification of new requirements is
	requirements and make recommendations to	developed through human interface.
	ORP management and a requirements	
	change board.	
17	Will make recommendations to ORP	Recommendations are made through human
	management and a requirements change	interface.
	board.	
23	They will be very infrequent users of the	General use of DOORS will be via
	ORP-PIO Requirements management	DOORSNet, which requires minimal
	Database.	introduction for use.
24	No requirements defined.	N/A
25	Will also oversee the change control process	Oversight is performed through a human
	for requirements.	interface.
27	Will sometimes query the requirements	General use of DOORS will be via
	database.	DOORSNet, which requires minimal
		introduction for use.
32	The ORP Requirements Management	The ORP Requirements will be located in a
	System must be able to contain all	single project.
	requirements as a single integrated set.	
33	There will be electronic access to this	The ORP Requirements project can be
1	integrated set of ORP Requirements	accessed electronically directly through
		DOORS or through the web front-end
1		DOORSNet.
37	While the requirement data may be copied to	Changes to requirements will only be made
	relational databases for reporting purposes,	within the DOORS database. Data feeds
	the primary database will be the only place	from relational databases will be
	where requirements can be changed.	procedurally prohibited.
45	The system shall be capable of generating	DOORS Extension Language (DAL) can be
	(hetely sensitive)	used to generate reports. Batch reporting
- 50	(batch reporting).	DOORS provides Export to SOL
50	of all requirements data including	functionality This functionality will not be
	biorarchical relationships links between	evercised unless specifically requested
	requirements and user-defined attributes to	exclused unless specifically requested.
	the relational databases (such as Access	
	SOL Server and Oracle)	
59	The system must have the canability to store	DOORS can store the Approval Authority
	an Approval Authority Matrix that executes	Matrix, DOORS structure allows change
	the threshold criteria for approving a change.	class tracking, but does not control the
	For each authorization level, the matrix may	actual changes.
	have selected attributes based on risk; scope,	
	schedule, and cost to determine change the	
	criteria or threshold. By using varying	
	change classes, assurance is provided that	
	the processing, review, and disposition of	
	changes to requirements are consistent with	
	the significance of the change and the	

. . .

No.	Requirement	Resolution
	approvers(s).	
73	Impact analysis assessment requires the judgment and technical analysis of experts. It generally entails determining the cost and	Impact analysis is performed through human interface.
	The PIO will be dependent on the contractors to perform much of the impact analysis.	
88	Ad hoc reporting must not require the services of a computer programmer.	DOORS provides reporting capabilities that allow the user to filter and define the view to be reported on.
89	The occasional user who wants to be able to view subsets of requirements must not require any training.	General use of DOORS will be via DOORSNet, which requires minimal introduction for use.
90	Training for data editing shall take less than 3 days.	"Applying DOORS" training takes two days to complete.
92	The system must provide data backup and restore capabilities.	DOORS provides the ability to archive and restore modules and projects which can be used for backup purposes. Backup of DOORS data will be performed through network server back ups.
100	View only access to the requirements database will be available to all those involved in requirements management.	General use of DOORS will be via DOORSNet, which requires minimal introduction for use.
101	This view only access must be provided at no cost to the viewer from their workstation.	General use of DOORS will be via DOORSNet, which is accessed through the user's internet browser.
102	No more than 1 hour of training will be required.	General use of DOORS will be via DOORSNet, which requires minimal introduction for use.
105	No training must be necessary.	General use of DOORS will be via DOORSNet, which requires minimal introduction for use.
109	No more than 2 days of training will be necessary	"Applying DOORS" training is requires two days to complete.
111	No more than 2 days of training will be necessary.	"Applying DOORS" training is requires two days to complete. Two hour overview sessions will be provided for the DOORSNet users.
112	The system must be available 10 hours per day, 7 days a week from 7 a.m 5 p.m.	DOORS servers are available during core business hours 7a.m. – 5 p.m. standard work days.
113	The software must execute in a client server or web environment.	DOORS executes in a client server environment. DOORSNet executes in a web environment.
114	The client portion of the tool must be compatible with Windows 95/98/NT.	DOORS client is compatible with Windows 95/98/NT.

No.	Requirement	Resolution
115	The server portion of the tool must run in an	DOORS server portion runs in an NT
	NT environment	environment.
117	All data must be portable to the following	DOORS provides Export to SQL
	relational databases: Access, SQL Server,	functionality. This functionality will not be
	and Oracle.	exercised unless specifically requested.
118	The Network license policy must be	RPP CIO approves the Network licensing
	acceptable to the Chief Information Officer.	policy for DOORS.
119	Software updates must be released and	Software updates will be implemented in
	implemented with less than 4 hours of user	less than 4 hours of user downtime.
	downtime.	
120	Vendor must allow reproduction of training	If needed, an arrangement will be made with
	materials for general user training.	the vendor, QSS.
124	The software must be Y2K Compliant.	DOORS & DOORSNet are Y2K compliant
125	The software must be customizable.	DOORS is customizable with the DOORS
		Extension Language (DXL).

2.3 Deliverables

This test plan including associated test cases and results will be provided as the deliverable for acceptance testing. Customer acceptance signatures will be included in this test plan.

2.4 Acceptance Criteria

Test results should meet resolution of requirements completely. In any other instance, test cases and results will be reviewed with the customer. Acceptance of test plan, cases, results, and exceptions will be indicated through signatures within this plan.

3 TESTING LOGISTICS

3.1 Testing Tasks

In preparation for the performance of test cases included in this plan, testing will be scheduled, a testing location will be confirmed, testing materials will be prepared, and communication of details will be made to all testing parties.

Data conversion will not be required to perform the test cases. Input will be performed manually. In the case of import testing, standard electronic files will be made available to all testers.

3.2 Environmental Needs

The following environmental needs have been identified for this test plan:

Personnel	 LMSI - All of the technical team will participate in the testing PIO - Requirements Management team members will be invited to participate in the testing
Facilities	A single location will be arranged for testing.
Equipment	Several workstations will be available for testing.
Time Allocation	Two complete days will be reserved for testing.

3.3 Staffing and Training

All of the LMSI DOORS technical team will participate in the testing. The Requirements Management team members will be invited to participate in the testing. All testers will be expected to have attended DOORS training or at least have a familiarity of the application.

3.4 Schedule

The following are the DOORS implementation testing milestones.

March 31, 2000
April 7, 2000
April 10, 2000 - April 13, 2000
April 13, 2000

3.5 Risks and Contingencies

No high-level risks are identified for the testing.

4 ROLES AND RESPONSIBILITIES

4.1 Requirements Management Team - System Users

Users will be invited to perform the test cases that test those requirements that they directly utilize during the course of their normal user activities. They will not normally conduct acceptance testing of those requirements that occur behind the scenes, such as automated feed processes.

4.2 Lockheed Martin Services, Inc. - DOORS Technical Team

LMSI staff will perform all test cases. The LMSI staff will also be responsible for testing items that occur behind the scenes and which are not visible to the user. Examples would be licensing allocation, server functions, or automated batch processes that are not user options in the application.

4.3 Project Management & Lead Responsibilities

Projects Managers and Leads from both LMSI SD&I and the PIO Requirements Management Team are expected to review test results and provide guidance, direction, and suggestions for improving the testing process. Their acceptance signatures will be included within this test plan.

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5 TESTING SUMMARY RESULTS

Testing summary results for the PIO DOORS implementation project were positive. Although no users elected to perform testing, LMSI DOORS technical staff performed each test case at least twice.

Testing participants included:

- Adria Johnson, LMSI
- Jennifer Kuklinski, LMSI
- Steve McConnell, LMSI
- Rick Strickland, LMSI
- Joyce Caldwell, LMSI

The following anomalies discovered during testing do not seriously affect system use. The issues be investigated and resolved.

Test Case #	Issue	Workaround
DOORS-6.04	DOORS Change Proposal (CP) Notify Message	CP Review Manager can reset CP preferences
DOORS-6.06	DOORSNet Connection Error Message	User can select "back" and reload web page

These anomalies and other testing issues that do not affect the system are described in detail in Section 5.1, *Test Case Discrepancy and Resolution Matrix*.

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	2	2	Z	2	2	_
Resolution	No affect on system or test results. Test cases will be corrected for future testing	Rebooted workstation and problem could not be recreated.	Investigation of problem revealed that only the children of the first object were affected. The number of affected objects is approximately 20, which would result in several screens of information. Testers may not have paged down far enough to notice the difference in access. This is the correct result	No affect on system test results. Test cases will be changed for future testing.	LMSI will investigate and contact QSS to inquire if an override is available.	1 = Jullio
Actual Result / Discrepancy	Clarification or correction needed in test steps 8, 20, 21, 23, 34, 39, 41, 43, and 44.	 DOORS displayed error "OLE Method Failed. Problem with OLE Argument names." Excel did not close and only displayed 159 of 255 records (objects). DOORS was "frozen" and required Windows Close Program/End Task to close window. 	"LMSI Test Write" user appeared to have read-only access to ALL objects in the TPA module.	Sequence of test steps in coordination with varied log-on access can cause a fail state on some steps. When test case author explained sequence, discrepancies were eliminated.	During navigation to new pages, Microsoft Internet Notify Window displayed message "The current user does not have a preferences section in this project. Please ask your Review Manager	13 M
Expected Results	Various	Microsoft Excel will contain all objects from Test Excel module and will close without incident	"LMSI Test Write" user should have read-only access to only the first object in the TPA module.	Various	Various	
Instruction Summary	Various	Export DOORS module to Microsoft Excel. Close Excel when finished.	Access for "LMSI Test Write" user to be changed to read- only on first object in TPA module.	Various	Various	
Test Case / Step #	DOORS-1	DOORS-2 / Step 7	DOORS-5 / Steps 37-43	DOORS-5	DOORS-6.04	

5.1 Test Case Discrepancy and Resolution Matrix

Test Case /	Instruction	Expected	Actual Result / Discrepancy	Kesolution	Kevlew
Step #	Summary	Kesults	-		Initials
			to run the change proposal setup tool again."		
			Testers did not have access to the		
			log-on for the Review Manager, due to the		
			test data being a copy of an existing user		
			project. Therefore, the preferences section		
			for "LMSI Test Read" user could not be		
			created. This resulted in the notification		
			message being displayed several times for		
			each tester.		
DOORS-6.06 /	Four users open	All four users	In each instance, one or two testers	LMSI will investigate solutions and	1 1 1
Steps 2-3	various modules	should be able	received the DOORSNet error message	contact QSS, if needed.	
	within the same	to open their	"DOORSNet has reported the following		
	project. All four	respective	error. Could not connect to the		7
	users start open	modules within	DOORSNet Server. The server may not be		
	at a	the acceptable	running, or it may be servicing other		
	synchronized	time range.	requests at the moment, in which case you		
	time.		should try again in a short while."		
-			Testers receiving error were able to		
			open their respective modules they		
			navigated back to the DOORSNet View		
			Selection page and selected the module		
			name again, and if the other testers did not		
			open their respective modules at the same		
			time.		

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6 CUSTOMER ACCEPTANCE

The Dynamic Object Oriented Requirements System (DOORS) has been satisfactorily tested by LMSI personnel and/or PIO test representatives. This system is accepted by the PIO as having achieved the requirements for which Lockheed Martin Services, Inc., Richland, implemented it.

Customer Acceptance

Nancy J/Milliken, CHG, PIO DOORS Implementation Project Manager

Ronald L. Nelson, CHG, PIO Chief Information Officer

Performing Organization

Terri M. Lutter, LMSI/SD&I, Program Manager

(idin L. Johnson

Adria L. Johnson, LMSI/SD&I, Project Lead

Date

7-00 Date

4-17-00

Date

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A - REQUI
APPENDIX A

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No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
1	DOE ORP	Will query on subsets of	By defining filters you can determine	Filter	DOORS-2	Vec
1	Staff	requirements and look at	which objects are displayed in formal or		1-01000	1 (3
		relationships between requirements.	descriptive modules. They are selected			
			for display on the basis of filter criteria,			
			which you define. Filters search all			
			string and text attributes.			
7	DOEORP	Will generate the requirement's	The Export to Word tool creates a	Export	DOORS-2	Yes
	Staff	section of new contracts from the	Microsoft Word document, and exports			
		requirements database.	the current view to it. The structure of			
			the document is derived from the			
			structure of the current view.			
ŝ	DOE ORP	Will extract the requirements set	The Filter tool can be used to extract the	Export, Filter	DOORS-2	Yes
	Staff	associated with a life cycle phase	noted requirements and export it to a			
		and use it as a checklist to see if all	tool such as Word or Excel to create a			
		the requirements for that phase have	checklist.			
		been met.				
4	DOE ORP	Will not update requirements.	Read only access will be granted to limit	User Access	DOORS-5	Yes
	Staff		the user from updating requirements.			
Ś	DOE ORP	Their querying and reporting will be	General use of DOORS will be via	No Test	NA	Yes
	Staff	infrequent. Any electronic tool must	DOORSNet, which requires minimal			
		be intuitive in order to keep support	introduction for use.			
		costs to a minimum.				
9	Initial Load	Will load requirements into the PIO	Read/Write access will be granted	User Access	DOORS-5	Yes
	Reviewers	Requirements database.	allowing the users to load requirements			
			into the PIO Requirements database.			
7	Initial Load	Will need to be able to input, edit,	Read/Write access will be granted	Object	DOORS-1	Yes
	Reviewers	and delete requirements; split	allowing the users to input, edit, and	Attributes		
		compound requirements; input	delete requirements; split compound			
		attribute values for requirements;	requirements; input attribute values for			
		view subsets of the requirements;	requirements; view subsets of the			
		and flag candidates for challenge.	requirements; and flag candidates for			
			challenge.			

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No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
×	Initial Load Reviewers	This user group will need read/write access to the requirements	Read/Write access will be granted to users identified as "Initial Load	User Access	DOORS-5	Yes
		requirements are baselined, this user group will disband.	VCVICWCIS			
6	Requirements	Will periodically examine the	Read/Write access will be granted	Filter, Report	DOORS-2	Yes
	Management	requirements to determine their	allowing users to read, filter, sort, and			
	leam	continued applicability	report on all requirements in the Requirements Management database.			
10	Requirements	Will identify potential new	Identification of new requirements is	No Test	NA	Yes
	Management	requirements and make	developed through human interface.			
	Team	recommendations to ORP			· ·	
		management and a requirements change board.				
11	Requirements	Will make recommendations to ORP	Recommendations are made through a	No Test	NA	Yes
	Management	management and a requirements	human interface.			
	Team	change board.				
12	Requirements	Will change the values of	Read/Write access will allow the user to	Attributes,	DOORS-1	Yes
	Management	requirement attributes and add new	update attributes and create links.	Links		
	Team	links between requirements without				
		going through the requirements change hoard				
13	Requirements	Will provide information about	Read/Write access will allow the user to	Filter, Report	DOORS-2	Yes
	Management	requirements to contractors and ORP	read, filter, sort and provide reports as			
	Team	management.	requested.			
14	Requirements	This team will have requirements	Read/Write access will be granted.	User Access	DOORS-5	Yes
	Management	experts and will be heavy users				
	Team	(Estimate: 3 - 5 people) of the				
		requirements database. This user				
		group will need read/write access to				
		the requirements management tool.				
15	Interface	Will periodically examine the	Read/Write access will be granted	Filter, Report,	DOORS-2,	Yes
	Control Team	requirements in the system for	allowing users to read, filter, sort, and	User Access	DOORS-5	
		interfaces to determine their	report on all requirements in the			

No No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
		continued applicability	Requirements Management database.			
16	Interface	Will identify potential new interface	Identification of new requirements is	No Test	NA	Yes
	Control Team	requirements and make recommendations to ORP	developed through human interface.			
		management and a requirements				
		change board.				
17	Interface	Will make recommendations to ORP	Recommendations are made through	No Test	NA	Yes
	Control Team	management and a requirements	human interface.			
		change board.				
18	Interface	Will query the database to determine	Read/Write access will be granted	Filter, Report,	DOORS-2,	Yes
	Control Team	what entities are affected by a	allowing users to read, filter, sort, and	User Access	DOORS-5	
		change in a requirement.	report on all requirements in the			
			Requirements Management database.			
19	Interface	Will query the database to determine	Read/Write access will be granted	Filter, Report,	DOORS-2,	Yes
	Control Team	which entities are responsible for the	allowing users to read, filter, sort, and	User Access	DOORS-5	
		execution of a requirement.	report on all requirements in the			
			Requirements Management database.			
20	Interface	This team will have experts in	Read/Write access will be granted.	User Access	DOORS-5	Yes
	Control Team	interface requirements (Estimate: 2 -				
		4 people). The team will need				
		read/write access to the requirements				
		management tool.				
21	Project	May query subsets of requirements	Read Only or DOORSNet access will	User Access	DOORS-5	Yes
	Management	and look at relationships between	provide the user the ability to review the	(DOORS &		
	Plan Team	requirements. However, for most of	ORP Requirements and their related	DOORSNet)		
		their work they will be dependent on	links.			
		data from the contractors.				
22	Project	Wants to be able to generate the	The Export to Word tool creates a	Export	DOORS-2	Yes
	Management	requirements' section of the Mission	Microsoft Word document, and exports			
	Plan Team	Analysis Report from the	the current view to it. The structure of			
		Requirements database.	the document is derived from the			
			structure of the current view.			
23	Project	They will be very infrequent users of	General use of DOORS will be via	No Test	NA	Yes
	Management	the ORP-PIO Requirements	DOORSNet, which requires minimal			

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	USEI/AI CA	veyurisment	Kesolution	I est Category	I est Case	Met?
	Plan Team	management Database.	introduction for use.			
24	Performance	No requirements defined.	V/N	No Test	NA	Yes
	Measurement					
	Team					
25	Change	Will also oversee the change control	Oversight is performed through a human	No Test	NA	Yes
	Control Team	process for requirements.	interface.			
26	Change	Will determine which requirements	Read Only or DOORSNet access can be	User Access	DOORS-5	Yes
	Control Team	are part of the technical baseline and	granted allowing users to read, filter,	(DOORS &		
		what level of approval is necessary	sort, and report on all requirements in	DOORSNet)		
		for a change to a particular	the Requirements Management			
		requirement.	database.			
27	Change	Will sometimes query the	General use of DOORS will be via	No Test	NA	Yes
	Control Team	requirements database.	DOORSNet, which requires minimal			
			introduction for use.			
28	Life Cycle	Must to be able to get a listing of the	Read Only or DOORSNet access can be	User Access	DOORS-5	Yes
	Team	requirements that relate to important	granted allowing users to read, filter,			
		milestones in order to assist with	sort, and report on all requirements in			
		'What-If' analysis. The completion	the Requirements Management			
		date is a key attribute of these	database.			
		requirements and needs to be				
		captured.				
29	Staff	Contractor staff, who are responsible	DOORSNet access can be granted	DOORSNet,	DOORS-4	Yes
	responsible	for managing requirements and	allowing users to read, filter, sort, and	Links, Change		
	for contractor	finding ways to complete the	report on all requirements in the	Proposal		
	requirements	mission more efficiently and	Requirements Management database.	System		
	management	effectively, need to be able to view	Users can trace relationships through			
		the parent requirements from which	links displayed. DOORSNet also			
		contractor requirements may have	provides the capability to submit			
		been derived, trace relationships	suggested changes to requirements.			
		between requirements, and suggest				
		changes to requirements.				
30	Data	People in this role are experts in	Read/Write/Change access will be	User Access	DOORS-5	Yes
	Administrator	how the electronic system(s) works,	granted to Data Administrators. This			
		are familiar with the data, and act as	type of access will allow them to read,			

No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
		gatekeeper. They will have the capability to make changes to the data structures, backup and restore data, and assist users access the data. They may also apply changes that have been authorized by the change board.	write, and change others' access.			
31	System Administrator	This is a computer professional who will be responsible for managing the hardware and installing new versions of the software. System Administrators do not need to be familiar with the data or the internals of any electronic tools. They need to know the computer hardware and execute operating system software and software installation procedures.	LMSI technical staff will perform system administration duties.	User Access	DOORS-5	Yes
32	Maintain a single, up-to- date, ORP requirements baseline	The ORP Requirements Management System must be able to contain all requirements as a single integrated set.	The ORP Requirements will be located in a single project.	No Test	AN	Yes
33	Maintain a single, up-to- date, ORP requirements baseline	There will be electronic access to this integrated set of ORP Requirements	The ORP Requirements project can be accessed electronically directly through DOORS or through the web front-end DOORSNet.	No Test	AN .	Yes
34	Maintain a single, up-to- date, ORP requirements baseline	The requirements will be baselined and an electronic change control mechanism must be provided.	DOORS provides a baseline functionality with electronic change control between versions.	Baseline versions	DOORS-2	Yes
35	Maíntain a single, up-to-	Previous versions of the requirements will be available.	DOORS allows users to view previous versions.	Baseline versions	DOORS-2	Yes

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No	Item/Area	Benirement	Deschution	Trat Cotoria	Taut Can	N
			Incontract	I ESI CAIEGULY	I est Case	Inter:
	date, UKP					
	requirements					
	baseline					
36	Maintain a	The system will be able to report on	DOORS Extension Language (DXL)	Baseline	DOORS-2	Yes
	single, up-to-	the differences between versions	could be used to report version	versions		
	date, ORP		differences.			
	requirements					
	baseline					
37	Maintain a	While the requirement data may be	Data feeds from relational databases	No Test	NA	Yes
	single, up-to-	copied to relational databases for	will be procedurally prohibited.			
	date, ORP	reporting purposes, the primary	Changes to requirements will only be			
	requirements	database will be the only place	made within the DOORS database.			
	baseline	where requirements can be changed.				
38	Maintain a	Most of the requirements will be	Official record copies of source	Descriptive	DOORS-1	Yes
	single, up-to-	extracted from existing documents.	documents will be managed in the	Module		
	date, ORP	These source documents must be	Hanford site records management			
	requirements	available for reference, linked to the	systems. Information copies of source			
	baseline	associated requirements in the	documents can be available for			
		requirements database, and under	electronic reference and linked to			
		configuration control. These	associated requirements if they are			
		documents may or may not be stored	stored in the DOORS database.			
		in the database.				
39	Provide	Reports shall include an arbitrary	DOORS provides reporting capabilities	Reporting	DOORS-2	Yes
	flexible	number of requirements attributes	that allow the user to filter and define			
	reporting –	that can be specified by the user.	the view to be reported on.			
	Report	(Attribute examples: Responsible				
	Content	Organization, Major Facility)				
40	Provide	Reporting may include the entire	DOORS provides reporting capabilities	Filter,	DOORS-2	Yes
	flexible	requirements' matrix or a selected	that allow the user to filter and define	Reporting		
	reporting –	subset of the matrix.	the view to be reported on.			
	Report					
	Content					
41	Provide	Requirements matrix shall be	DOORS supports textual or graphic	Reporting	DOORS-2	Yes
	flexible	capable of reporting in textual or	format.	• •		

No No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	reporting – Report Content	graphical format.				
42	Provide flexible reporting - Report Content	Requirements may be grouped hierarchically, if so drill-down capabilities shall be provided so that users can get an overview of the requirement categories followed by increasing levels of detail in the category of interest.	Users can view requirements at any object level. Higher object level numbers represent higher levels of detail.	Views (Levels)	DOORS-2	Yes
64	Provide flexible reporting – Content	The system shall report requirements in such a manner that the output may be used as a legal document following a user described format. For example, the PIO Requirements Management system will be able to generate the requirement's section for the contracts.	The Export to Word tool creates a Microsoft Word document, and exports the current view to it. The structure of the document is derived from the structure of the current view.	Export	DOORS-2	Yes
44	Provide flexible reporting – Report Availability	The system shall be able to generate reports to the screen, paper, and the web (HTML).	DOORS can provide reports to the screen, which in turn can be printed to paper. The DOORS Export to HTML functionality and /or DOORSNet can provide HTML reports.	Export, Reporting (DOORS & DOORSNet)	DOORS-2	Yes
45	Provide flexible reporting – Report Availability	The system shall be capable of generating reports at specific times while unattended (batch reporting).	DOORS Extension Language (DXL) can be used to generate reports. Batch reporting can be setup for night time processing.	No Test - Batch reporting has not been requested.	NA	Yes
46	Facilitate requirements analysis	While only people can clarify requirements, the system must assist in the identification of ambiguous requirements. An example of this assistance is the tagging of requirements based on the inclusion	The DOORS Plain Text Import tool provides the ability to define keywords to assist in the identification of requirements.	Plain Text Import	DOORS-1	Yes

°S	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
		or exclusion of keywords such as 'must', 'shall', and 'will'. This list of keywords must be customizable.				
47	Facilitate requirements analysis	The system must assist in the splitting of compound requirements into single, unambiguous requirements. The user must be able to indicate where the requirement is to be split and the system must then create the new requirements.	DOORS provides the functionality to split objects.	Object Split	DOORS-1	Yes
48	Facilitate requirements analysis	The system must be able to tag a requirement with multiple, user- defined attributes and capture values for these attributes. Examples of attributes are responsible organization, ORP function, life- cycle phase.	DOORS provides the ability to apply user defined attributes.	Attributes - Create	DOORS-1	Yes
49	Facilitate requirements analysis	The system must provide the capability to export a requirements subset for further analysis (e.g., into Excel).	DOORS provides export functionality.	Export	DOORS-2	Yes
50	Facilitate requirements analysis	The system must provide export capability of all requirements data including hierarchical relationships, links between requirements, and user-defined attributes to the relational databases (such as Access, SQL Server, and Oracle).	DOORS provides Export to SQL functionality. This functionality will not be exercised unless specifically requested.	No Test	AA	Yes
51	Facilitate requirements analysis	The system must allow the use of color to identify related requirements.	DOORS provides the ability to change colors of objects.	Attribute/Obje ct Color	DOORS-1	Yes
52	Facilitate the change control	The drivers for internal change can be bottom up or top down. The change control team will have a	Changes to requirements in the ORP Requirements project will be superceded by the change of the requirement in the	Change Proposal System	DOORS-3	Yes

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No No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	process	process to handle both and the interface team will have processes to manage all interfaces changes. The PIO Requirements Management System must assist both of these teams in managing changes to requirements. Additionally, the system must help track changes to externally generated requirements such as DOE Orders, regulations, etc.	official source documents. DOORSNet provides the ability to capture and track proposed changes throughout the process.			
53	Change Notification for Requirements under the Control of ORP	The system must accommodate unrestricted initiating access for change requests by all individuals and organizational entities within the RPP.	DOORSNet provides the ability to set up a "Guest" user that can submit proposed changes without the need for an actual DOORS user account.	User Access	DOORS-5	Yes
54	Change Notification for Requirements under the Control of ORP	The proposed change must be captured.	DOORSNet provides an entry screen for proposed changes, including the justification for the change and the user submitting the proposal.	Change Proposal System	DOORS-3	Yes
55	Change Notification for Requirements under the Control of ORP	The justification for the proposed change must be captured.	DOORSNet provides an entry screen for proposed changes, including the justification for the change and the user submitting the proposal.	Change Proposal System	DOORS-3	Yes
56	Change Notification	The person proposing the change and the date of the proposal will also	DOORSNet provides an entry screen for proposed changes, including the	Change Proposal	DOORS-3	Yes

°2	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	for	be captured.	justification for the change and the user	System		
	Requirements		submitting the proposal.			
	Control of					
	ORP					
57	Change	The persons responsible for	DOORSNet provides the ability to	Change	DOORS-3	Yes
_	Notification	monitoring external changes must be	capture and track proposed changes	Proposal		
_	tor	able to capture that a change is	throughout the process.	System		
_	Requirements	likely or that a change has occurred.				
_	Not under the					
	Control of					
20	Change	The management of the second				
000	Unange	I ne responsible persons will analyze	The DOOKS Change Proposal system	Change	DOORS-3	Yes
	Notification	the change and its impact. The	provides an entry screen for reviews to	Proposal		
	for	system must capture a	supply comments.	System		
	Requirements	summarization of their analysis and		,		
	Not under the	their recommendation as to whether				
	Control of	or not this requirement should be				
1	ORP	challenged.				
59	Change	The system must have the capability	DOORS can store the Approval	No Test -	NA	Yes
	Control	to store an Approval Authority	Authority Matrix. DOORS structure	Manual		
	Process	Matrix that executes the threshold	allows change class tracking, but does	Process is		
		criteria for approving a change. For	not control the actual changes.	needed for this		
		each authorization level, the matrix		requirement		
		may have selected attributes based				
		on risk; scope, schedule, and cost to				
		determine change the criteria or				
		threshold. By using varying change				
		classes, assurance is provided that				
		the processing, review, and				
		disposition of changes to				
		requirements are consistent with the				
		significance of the change and the				
		approvers(s).				

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60	Change	The matrix must be viewable and	DOORS can be configured to only allow	User Access	DOORS-5	Yes
	Control	updateable by a member of the	a member of the change control team to			
	Process	change control team.	have access to the matrix.			
61	Change	Ideally, a link to the Human	Individuals can be linked to	Link	DOORS-1	Yes
	Control	Resource or Payroll system would	authorization levels manually.			
	Process	capture who is at a certain			-	
		authorization level. This link would				
		also capture delegations of authority.				
		If such a link cannot be made				
		available, then this system will have				
		to have a mechanism to link				
		individuals to authorization levels.				
62	Change	The system must have the capability	DOORS provides the ability to receive	Change	DOORS-3	No
	Control	to notify individuals who are	email notifications in conjunction with	Proposal		
	Process	responsible for reviewing proposed	change proposals for the users	System, Email		
		changes to the requirements baseline	submitting changes, not the person	Notify		
		that changes have been requested.	responsible for reviewing the proposals.	•		
63	Change	While much of the impact analysis	DOORS provides reporting capabilities	Filter, Report	DOORS-2	Yes
	Control	work will be manual, the system	that allow the user to filter and define			
	Process	must be capable of showing related	the view to be reported on.			
		requirements and any selected				
		attributes of the requirements (see				
		sections on flexible reporting and			_	
		impact analysis)				
64	Change	The system must be capable of	The DOORS Change Proposal system	Change	DOORS-3	Yes
	Control	receiving inputs from the reviewers	provides an entry screen for reviews to	Proposal		
	Process	as to their approval or disapproval of	indicate status of requirement changes	System		
		a proposed change to the	and supply comments.			
		requirements baseline and the reason			-	
		for their decision.				
65	Change	The system must be capable of	DOORS provide historical tracking	Change	DOORS-3	Yes
	Control	producing reports of the history of	features.	Proposal		
	Process	all changes to a requirement and the		System,	-	
		justification for the changes.		History	10	

No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
99	Change	The system must be capable of	DOORS provides the ability to review	Change	DOORS-4	Yes
	Process	proposed changes and their status.	vitatiges and status.	System, DOORSNet		
67	Change	The proposer will be able to see the	Proposers of changes to requirements	Change	DOORS-3	Yes
	Control Process	status of a proposed change.	have access to review the status of their	Proposal Svetem		
68	Facilitate the	The system must allow requirements	DOORS allows the creation of user	Attrihute	DOORS-1	Yes
8	requirements	to be tagged with various attributes,	defined attributes.		1-0000	1
	challenge process	which will make it easy to query on candidates for challenges (See				
		section on flexible reporting).				
69	Facilitate the	The system must be able to establish	DOORS provides the ability to create	Link	DOORS-1	Yes
	requirements	linkages with progressively higher	links between requirements.			
	challenge	requirement sources so that the users				
	process	can trace the lineage of a				
		requirement.				
70	Facilitate the	The system must be able to display	DOORS provides the ability to display	Descriptive	DOORS-1	Yes
	requirements	copies of entire sections of external	documents that are input into the	Module, View		
	challenge	documents that are the source of an	database.			
	process	ORP requirement				
71	Facilitate the	The system must allow very flexible,	DOORS provides reporting capabilities	Filter, Report	DOORS-2	Yes
	requirements	ad hoc reporting capabilities.	that allow the user to filter and define			
	challenge		the view to be reported on.			
	process					
72	Facilitate the	The system must capture challenge	Challenge requests can be entered as	Change	DOORS-3	Yes
	requirements	requests and handle them in the	change proposals and handled the same	Proposal		
	challenge	same way as other requests for	as other proposed changes.	System		
	process	changes (see section on change				
ſ				E		11
5	Assist with	Impact analysis assessment requires	Impact analysis is performed through	No l'est	NA	Yes
	Impact	the judgment and technical analysis	numan interface.			
	analysis	of experts. It generally entails				
	assessment	determining the cost and schedule				

No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
		impacts of changes to work scope. The PIO will be dependent on the contractors to perform much of the impact analysis.				
74	Assist with impact analysis assessment	The PIO will identify new requirements or requirements that are candidates for challenge. Impact analysis assessment will be done as part of the change control process. The PIO requirements management system will assist as follows: Capture relationships between requirements	DOORS provides the ability to create links that demonstrate a relationship between requirements.	Link	DOORS-1	Yes
75	Assist with impact analysis assessment	The system must capture and report on all the links between requirements. This includes incoming and outgoing links.	DOORS Extension Language (DXL) can be used to generate the needed link reports.	Link	DOORS-1	Yes
76	Assist with impact analysis assessment	The system must allow the user to navigate through the linked requirements.	DOORS provides the ability to navigate through linked requirements.	Link	DOORS-1	Yes
77	Assist with impact analysis assessment	The system must allow for the creation of new links.	Read/Write access can be granted allowing the user to create links.	Link	DOORS-1	Yes
78	Assist with impact analysis assessment	The system must allow links to be deleted.	Read/Write access can be granted allowing the user to delete links.	Link	DOORS-1	Yes
79	Query for a set of requirements	Users must be able to query based on requirement attributes (See section on flexible reporting).	DOORS provides reporting capabilities that allow the user to filter and define the view to be reported on.	Filter, Report	DOORS-2	Yes
80	Manage interfaces	The system must capture all ORP- PIO level requirements related to	Human interface is required to define all requirements related to interfaces. This	Attribute	DOORS-1	Yes

°Z	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	with AMPD,	interfaces.	information can be stored in DOORS		•	
	AMSR, CHG, BNFL, and PT		user defined attributes.			
61	Manage	The requirements management	DOORS provides reporting canabilities	Filter Sort	DOORS-2	Yes
10	interfaces	system must be able to report on	that allow the user to filter and define			
	with AMPD,	which organizations will be affected	the view to be reported on. (An			
	AMSR, CHG,	by a change to a requirement.	attribute indicating the affected			
	BNFL, and RL		organization must exist.)			
82	Manage	The requirements management	DOORS provides reporting capabilities	Filter, Sort	DOORS-2	Yes
	interfaces	system must be able to report on	that allow the user to filter and define			
	with AMPD,	which organization is responsible for	the view to be reported on. (An			
	AMSR, CHG,	executing a requirement.	attribute indicating the responsible			
	BNFL, and RL		organization must exist.)			
83	Facilitate	Any new system must facilitate the	DOORS provides the ability to import	Import	DOORS-1	Yes
	Initial Data	transition from the old system to the	from a wide variety of tools including			
	Load	new one. The requirements	Word, text, Excel, Rich Text Format,			
		currently exist in a variety of	etc.			
		documents. The new system must				
		have tools to assist with loading				
		documents that are in a variety of				
		formats such as Word, text, Excel and HTML.				
84	Facilitate	The software must provide a global	Attributes can be given default values at	Attributes	DOORS-1	Yes
	Initial Data	update capability including the	creations. DXL can be used to global			
	Load	global update user defined attributes.	update attributes, also.			
85	Usability	The electronic system must have the	DOORS has the look and feel of a	Window	DOORS-6	Yes
	Requirements	look and feel of a Windows	Windows application.	comparison		
		application.				
86	Usability	The software must provide standard	DOORS provides the standard Windows	Windows	DOORS-6	Yes
	Requirements	Windows editing features, such as	editing features.	Comparison		
		highlight, cut, copy, paste, change,				

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		aelete, and insert				
87	Usability Dominionate	Ad-hoc reporting functionality must	DOORS provides reporting capabilities	Filter, Report	DOORS-2	Yes
	requirements	ue availaute.	the view to be reported on.			
88	Usability	Ad hoc reporting must not require	DOORS provides reporting capabilities	No Test	NA	Yes
	Requirements	the services of a computer	that allow the user to filter and define			
		programmer.	the view to be reported on.			
89	Usability	The occasional user who wants to be	General use of DOORS will be via	No Test	NA	Yes
	Requirements	able to view subsets of requirements	DOORSNet, which requires minimal		1	, , ,
		must not require any training.	introduction for use.			
90	Usability	Training for data editing shall take	"Applying DOORS" training is requires	No Test	NA	Yes
	Requirements	less than 3 days.	two days to complete.		1	1
91	Performance	The software shall provide a	General screen refreshing is within the	System	DOORS-6	Yes
	Requirements	maximum screen refresh time of 1/2	Hanford standards. Initial opening of	Performance		
		second for a standard Hanford	modules, importing of data, and other			
		workstation.	capabilities are more time consuming			
			due to complexity of the operation.			
92	Reliability	The system must provide data	DOORS provides the ability to archive	No Test	NA	Yes
	Requirements	backup and restore capabilities.	and restore modules and projects which			_
			can be used for backup purposes.			
			Backup of DOORS data will be			
			performed through network server back			
			ups.			
93	Reliability	The system must provide archive	DOORS provides the ability to archive	User Access	DOORS-5	Yes
	Requirements	capabilities.	and restore modules and projects.			
94	Security	The system shall provide several	DOORS provides Read Only,	User Access	DOORS-5	Yes
	Requirements	levels of access, from read to update,	Read/Write, and Read/Write/Change			
	Control	to the requirements.	levels of access.			
	access to the					
	requirements -					
	- Levels of					
	Access					
95	Security Requirements	Access to the system shall be based on network credentials or system	A user assigned to the role of system administrator has the ability to define	User Access	DOORS-5	Yes
			ATTIAN OF CITION ATT CHILD OF CONTRACTION			

No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	Control access to the requirements - - Levels of Access	specific credentials. The system administrator will have full control over which to use.	the type of user log-in that will be used with the projects.			
96	Security Requirements Control access to the requirements - Levels of Access	The assignment of access level will not require the services of a professional computer scientist.	A user assigned to the role of system administrator has the ability to define the type of user log-in that will be used with the projects.	User Access	DOORS-5	Yes
97	Security Requirements Control access to the requirements - Levels of Access	The system shall be capable of limiting access to subsets of the requirements (rows).	DOORS provides the capability to limit access at the object (row) or attribute (column) levels.	User Access	DOORS-5	Yes
86	Security Requirements Control access to the requirements - Levels of Access	The system shall be capable of limiting access to subsets of the attributes (columns).	DOORS provides the capability to limit access at the object (row) or attribute (column) levels.	User Access	DOORS-5	Yes
66	Security Requirements Control access to the requirements - Levels of Access	Since there is a hierarchical relationship between requirements or categories of requirements, viewing, creation, modification, deletion of requirement elements can be controlled based on the hierarchical levels.	DOORS provides the capability to limit access at the object (row) or attribute (column) levels.	User Access	DOORS-5	Yes
100	Security	View only access to the	General use of DOORS will be via	No Test	NA	Yes

00	USer/Area	Kequirement	Resolution	Test Category	Test Case	Met?
	Requirements Control	requirements database will be available to all those involved in	DOORSNet, which requires minimal introduction for use.			
	access to the	requirements management.				
	requirements - - Levels of					
	Access View Only					
101	Security	This view only access must be	General use of DOORS will be via	No Test	NA	Ves
	Requirements Control	provided at no cost to the viewer from their workstation	DOORSNet, which is accessed through the user's internet browser		4	2
	access to the					
	requirements -					
	- Levels of					
	Access					
	View Only					
102	Security	No more than 1 hour of training will	General use of DOORS will be via	No Test	NA	Yes
	Requirements	be required.	DOORSNet, which requires minimal			
	Control		introduction for use.			
	access to the					
	requirements -					
	- Levels of					
	Access					
	View Only					
103	Security	Access must not require the	General use of DOORS will be via	DOORSNet	DOORS-4	Yes
	Requirements	installation of any additional	DOORSNet, which is accessed through	Connection		1
	Control	software on the user's workstation	the user's internet browser.			
	access to the	other than the normal network				
	requirements -	software and/or Web browser.				
	- Levels of					
	Access					
	View Only					
104	Security	Anybody must be able to propose a	General use of DOORS will be via	DOORSNet	DOORS-4	Yes
	Requirements	change.	DOORSNet, which requires minimal			-
	Control		introduction for use.			

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No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	access to the requirements - - Levels of Access - Propose Change					
105	Security Requirements Control access to the requirements - - Levels of Access - Propose Change	No training must be necessary.	General use of DOORS will be via DOORSNet, which requires minimal introduction for use.	No Test	NA	Yes
106	Security Requirements Control access to the requirements - - Levels of Approve Change	A small number of people must have the capability to approve changes to the text of the requirements and apply these changes to the database.	Read/Write access can be granted allowing users to approve changes and modify requirements as needed.	User Access	DOORS-5	Yes
107	Security Requirements Control access to the requirements - - Levels of Approve Change	A small number of people must be able to change the values of attributes associated with requirements. These people may be prevented from changing the requirement text.	Read/Write access can be granted allowing users to approve changes and modify requirements as needed. DOORS provides the capability to limit access at the object (row) or attribute (column) levels.	User Access	DOORS-5	Yes
108	Security	A small number of people must be	Read/Write access can be granted	Links	DOORS-1	Yes

	et?									ŝŝ			·					s								6						-
	Ň									Ϋ́ε								Ye								Ye						
	Test Case									NA								DOORS-5								NA						
E	I est Category	_							E	No lest								User Access							No Toot	1001 001						
Resolution		auowilig users to add and delete links between requirements	competition and an emetiles.						"Annlving DOOD C" turining is	two days to complete								Read/Write/Change access can be granted to allow administrators to create	baseline and new versions.						"Applying DOORS" training is required	two days to complete. Two hour	overview sessions will be provided for	the DOORSNet users.				
Requirement	able to add and delete linkages	between requirements.	4						No more than 2 days of training will	be necessary								The creation of a baseline and new versions will be limited to one or	two people.						No more than 2 days of training will	be necessary.						
User/Area	Requirements	Control	access to the	requirements -	- Levels of	Access -	Approve	Change	Security	Requirements	Control	access to the	requirements -	- Levels of	Access –	Approve	Change	Security Requirements Control	access to the	requirements -	- Levels of	Access –	Create new	versions	Security	Kequirements	Control	access to the	requirements -	- Levels of	Access –	
No								ļ	109			-						110							111							•

No	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
	versions				-	
112	Availability Requirements	The system must be available 10 hours per day, 7 days a week from 7 a.m 5 p.m.	DOORS servers are available during core business hours 7a.m. – 5 p.m. standard work davs	No Test	NA	Yes
113	Portability Requirement	The software must execute in a client server or web environment.	DOORS executes in a client server environment. DOORSNet executes in a web environment.	No Test	NA	Yes
114	Portability Requirement	The client portion of the tool must be compatible with Windows 95/98/NT.	DOORS client is compatible with Windows 95/98/NT.	No Test	NA	Yes
115	Portability Requirement	The server portion of the tool must run in an NT environment	DOORS server portion runs in an NT environment.	No Test	NA	Yes
116	Portability Requirement	Any web screens must be compatible with Internet Explorer 4.0 or above.	DOORSNet is compatible with Internet Explorer 4.0 or above.	DOORSNet	DOORS-4	Yes
117	Portability Requirement	All data must be portable to the following relational databases: Access, SQL Server, and Oracle.	DOORS provides Export to SQL functionality. This functionality will not be exercised unless specifically requested.	No Test	NA	Yes
118	Supportability Requirements	The Network license policy must be acceptable to the Chief Information Officer.	RPP CIO approves the Network licensing policy for DOORS.	No Test	NA	Yes
119	Supportability Requirements	Software updates must be released and implemented with less than 4 hours of user downtime.	Software updates will be implemented in less than 4 hours of user downtime.	No Test	NA	Yes
120	Supportability Requirements	Vendor must allow reproduction of training materials for general user training.	If needed, an arrangement will be made with the vendor, QSS.	No Test	NA	Yes
121	Supportability Requirements	On-line help must be available.	DOORS and DOORSNet provide on- line help.	On-line Help	DOORS-6	Yes
122	Supportability Requirements	Client software must be capable of operating on a minimum workstation of Pentium 300 MHz, 64 MB RAM and 6 GB hard disk for editing and a	The requirement for editing exceeds DOORS recommended workstation requirements. The requirement for read- only exceeds DOORS minimum	Workstation	DOORS-6	Yes

Ž	User/Area	Requirement	Resolution	Test Category	Test Case	Met?
		minimum Pentium 100 MHz for	workstation requirements.			
		read-only.	;	;		
123	Supportability	The tool must support up to 20	DOORS supports 20 concurrent users,	Licensing	DOORS-6	Yes
	Requirements	concurrent users.	and additional users as needed.			
124	Supportability	The software must be Y2K	DOORS & DOORSNet are Y2K	No Test	NA	Yes.
	Requirements	Compliant.	compliant			
125	Supportability	The software must be customizable.	DOORS is customizable with the	No Test	NA	Yes
	Requirements		DOORS Extension Language (DXL).			
126	Interface	The contractors must be able to link	Cross-project linking is not supported	Link	DOORS-1	Yes
	Requirements	their requirements to the PIO	by DOORS at this time. Contractors			
		requirements. This can be done via	can link their requirements to PIO			
		a common data model.	requirements if their modules are			
			located within the ORP Requirements			
			project.			

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8 APPENDIX B - TEST CASES AND RESULTS

Completed test cases with results will be inserted into the test plan, at this point, after all tests have been performed. The following test cases will be performed.

Test Case Number	Test Case Subject Area
DOORS-1	DOORS General Use (Create Project, Module, Attribute, Link, Import)
DOORS-2	DOORS General Use (Views, Filters, Sort, Reporting, Export, Baseline, History)
DOORS-3	DOORS Change Proposal System
DOORS-4	DOORSNet General Use
DOORS-5	DOORS User Access
DOORS-6	DOORS and DOORSNet System Testing (Broken down into sub-tests)
	6.01 – DOORS PC Client General System Test
	6.02 – DOORSNet Client General System Test
	6.03 – DOORS PC Manual Single User Performance Test
	6.04 – DOORSNet Manual Single User Performance Test
	6.05 – DOORS PC Manual Multiple Users Performance Test
	6.06 – DOORSNet Manual Multiple Users Performance Test

8.1 Test Case Number: DOORS-1

Test Case Title: DOORS General Use (Create Project, Module, Attribute, Link, Import)

Requirements to be verified

No.	Requirement Description
7	Will need to be able to input, edit, and delete requirements; split compound requirements; input attribute values for
	requirements; view subsets of the requirements; and flag candidates for challenge.
12	Will change the values of requirement attributes and add new links between requirements without going through the
	requirements change board.
38	Most of the requirements will be extracted from existing documents. These source documents must be available for reference,
	linked to the associated requirements in the requirements database, and under configuration control. These documents may or
	may not be stored in the database.
46	While only people can clarify requirements, the system must assist in the identification of ambiguous requirements. An example
	of this assistance is the tagging of requirements based on the inclusion or exclusion of keywords such as 'must', 'shall', and
	'will'. This list of keywords must be customizable.
47	The system must assist in the splitting of compound requirements into single, unambiguous requirements. The user must be able
	to indicate where the requirement is to be split and the system must then create the new requirements.
48	The system must be able to tag a requirement with multiple, user-defined attributes and capture values for these attributes.
	Examples of attributes are responsible organization, ORP function, life-cycle phase.
51	The system must allow the use of color to identify related requirements.
61	Ideally, a link to the Human Resource or Payroll system would capture who is at a certain authorization level. This link would
	also capture delegations of authority. If such a link cannot be made available, then this system will have to have a mechanism to
	link individuals to authorization levels.
68	The system must allow requirements to be tagged with various attributes, which will make it easy to query on candidates for
	challenges (See section on flexible reporting).
69	The system must be able to establish linkages with progressively higher requirement sources so that the users can trace the
	lineage of a requirement.
70	The system must be able to display copies of entire sections of external documents that are the source of an ORP requirement
74	The PIO will identify new requirements or requirements that are candidates for challenge. Impact analysis assessment will be
	done as part of the change control process. The PIO requirements management system will assist as follows:
	Capture relationships between requirements

75	The system must capture and report on all the links between requirements. This includes incoming and outgoing links	_
76	The system must allow the user to navigate through the linked requirements	
77	The system must allow for the creation of new links.	
78	The system must allow links to be deleted.	- 1
80	The system must capture all ORP-PIO level requirements related to interfaces	
83	Any new system must facilitate the transition from the old system to the new one. The requirements currently exist in a variety	
	of documents. The new system must have tools to assist with loading documents that are in a variety of formats such as Word	
	text, Excel and HTML.	· · · · ·
84	The software must provide a global update capability including the global undate user defined attributes	
108	A small number of people must be able to add and delete linkages between requirements	
176	The contractore must be able to light the contract of the contractore multiple.	
271	any contractors trues to a dote to truth trient requirements to the PIO requirements. This can be done via a common data model.	
		_

Testing Set-up

- User is required to be logged on to the Hanford Local Area Network (HLAN)
 - DOORS 4.1.4 SR2 (production) must be installed on testing workstation
 - Microsoft Word 97 must be installed on testing workstation
- Internet Explorer 4.0 or higher must be installed on workstation.

Constraints

The constraints listed below were taken into account during the preparation of testing materials. The user will be provided import files that have been converted to the noted format.

- Importing of HTML files require the user to save the HTML file as a ".rtf" file prior to import. •
 - Importing of Excel files require the user to save the Excel file as a ".cmf" file prior to import. •

Test Case

Comments	
Fail	
Pass	>
Expected Result	DOORS: Project Manager window will open displaying a list of available projects.
Instruction	Open DOORS using Production Server Data (Start->Programs->DOORS->DOORS Production)
Step Num	

Step Num	Instruction	Expected Result	Pass	Fail	Comments
0	 Create a new project using the project wizard. Use of the wizard will also create an initial module definition. Select Project -> Project Wizard Select Project -> followed by your name (e.g. Test Project - Adria) Enter Name: "Test Project - Adria) Enter Description: "Test project created by "followed by your name (e.g. Test project created by "followed by your name (e.g. Test project created by "followed by your name (e.g. Test project created by Adria) Select Next Enter "Test Excel" in Module Name Field Select Insert custom module Accept other default entries on Project Wizard Step 2 screen, Select Next Accept default entries on Project Wizard Step 3 screen, Select Next Created by your initials (e.g. Test Project Usizard Step 4 screen, Select Next Enter Project Definition: "Test Project Wizard Step 4 screen, Select Next Enter Project Usizard ALJ), Select Next In the User list, you should see your HID followed "(Administrator)", Select Next Select Finish on the Project Wizard Step 7 screen 	The DOORS Project Manager window will be displayed with the Test Project title displayed in the title bar. One module will be listed with the name displayed "Test Excel" in the module column.	>		
3	Open the Test Excel Module by double- clicking on it	The DOORS Formal Module: 'Test Excel' current 0.0 window will open.	>		
4	Import a test Excel file Select Tools -> Import -> Spreadsheet	The DOORS Import Spreadsheet window will be displayed.	>		
5	Accept default entry for Import to	DOORS Formal Module 'Test Excel'	>		

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	Attributes	current 0.0 window will be			
	Select "Create new objects" on Import	displayed			
	Options	Object Identifier and Test Excel			
	Enter Input file:	Columns will be displayed			
	C:\ProgramFiles\DOORS\Testing\Test- Fxcel csv				
	Select Import				
	When prompted to confirm attribute				
	types, ensure that all types are "text", (if				
	not select Untarge Autronie 1 ype, select text) select Confirm				
	When prompted with number of objects				
	updated and number of objects created,				
	select OK				
	Select Close				
6	Insert a New Column for each of the	DOORS Formal Module 'Test Excel'	>		
	following attributes (Select Column -> New -	current 0.0 window will be displayed			
	> On the Attribute pull down menu select the	with the following columns displayed:			
	attribute name -> Select Insert)	Object Identifier			
	Application Acronym	Test Excel			
	Application Full Name	Application Acronym			
	Data Description	Application Full Name			
	Owner Company	Data Description			
		Owner Company			
7	Save the view created	Test Excel View will appear in the	>		
	Select View	Views pull down menu in the toolbar			
	 Select Manage Views 	near the top left of the DOORS window.			
	 In View Name Field type "Test Excel 				
	View"				
	Select Save ("Test Excel View" will				
	appear in the Views field of the				
	(WUDDING A TOWS WITHOW)				

Step Num	Instruction	Expected Result	Pass	Fail	Comments	····
	Select Close					1
8	Create a New Attribute Type	Before Selecting Close on the Edit	>	i	Add instruction last	1
	Select Attribute	Enumerations window, the new			step "Select Close".	
	Select Edit Type	enumerations created will be				
	Enter Name of Type: Interfaces	displayed in the right side of the				
	Select Base Type: Enumeration	window.				
	Select Edit Enumerations	Before Selecting Close on the Edit				
	Enter Name CHG, Enter Value 1, Select	Attribute Types window, the newly				
	Use Color Specified, Select Color "High	created attribute type "Interfaces"				
	Indicator" (RED), Select Insert	will appear in the Lietheu Types				·• •
	• Enter Name ORP, Enter Value 2, Select	IISL.				
	Use Color Specified, Select Color					
	"Medium Indicator" (YELLOW), Select					
	Insert					
	Enter Name BNFL, Enter Value 3, Select					
	Use Color Specified, Select Color "Low					
	Indicator" (GREEN), Select Insert					
	Select Close					
	• On the Edit Attribute Types window,					
	select Create					
6	Create a new attribute	Before Selecting Close on the Define	>			
	Select Attribute	Attribute window, the newly created				
	Select Define	attribute "Interface Company" will				
	 Accept Default Applies to Objects 	appear in the Attributes list				
	Enter Name: Interface Company					
	 Select Type: Interfaces 					
	Select Multivalued					
	Accept Default of Value: No Default					
	Select all options on Attribute should					
	(Generate History, Affect Change Dates,					
	Affect Change Bars)					
	Select Create				· · · · · · · · · · · · · · · · · · ·	

						-
Step	Instruction	Expected Result	Pass	Fail	Comments	
Num						
	Select Close					
10	Insert the Interface Company attribute column (Select Column -> New -> On the Attribute	A new blank column will be created with the title of Interface Company.	>			
	pull down menu, select the attribute name -> Select Insert)					
11	Globally insert a value for the Interface	Every object in the Interface Company	>			
	Company attribute	column will contain BNFL				
	Hold down the shift key and click on the					
	first object to select it (text will turn red)					
	and continue to noid down the shift key					
	to select all in between (all objects will					
	now have red text), release the shift key					
	Right Click on any object					<u> </u>
	Select Edit					
	On the Edit Formal Object window, Select					
	Interface Company from the Attribute List					
	On the Edit Attribute Value Window,					
	Select Value: Specific					
	Select Specific Value: BNFL					
	Select Apply to current: Display Set					
	Select Apply					
	Select Confirm, to "Apply to all displayed					
	objects?"					
•	Select Close on the Edit Formal Object					
	Window					
12	Change the color of the Company Interface	Every object in the Interface Company	>			
	attribute	column will contain BNFL. The BNFL				
	Double-click on the Interface Company	entry text will now be displayed in				
	column title	Green.				
	On the Edit Column window, Select Use					
	Color: By Attribute					

ζ					
Stel Nun	p Instruction	Expected Result	Pass	Fail	Comments
	Select Interface Company				
	Select Apply				
13	Split the second object in the module	A new object will be created with "adia			
	Double-click in the Data Description	limit file, auto limit file selection" in the	>		
	• Highlight text in the Data Description	Data Description column			
	column as follows:	(Note: If the Data Description column			
	Has several functions: acquiring	was the "Object Text" the user could			
	C852 temp, alarm operators when	also use tools->Functions->Split Object			
	limit file selection.	to spirt the object.)			
	Press Ctrl-X to cut the selection				
	Select Object -> New one level down (a				
	blank object will be created directly				
	below)				
	Double-click in the new object's Data				
	Description column				
	Press Ctrl-V to paste the selection	-			
14	Close the Test-Excel Module	DOORS: Project Manager window will			
	If prompted to save, select yes	be displayed	>		
15	Create a new formal module	The DOORS Formal Module: Tract			
	 Select Module -> New Formal Module 	TXT current 0.0 window will onen and	>		
	On the New Formal Module window	will be blank.			
	Enter Formal Module Name: Test-TXT				
	Enter Description: Test Text				
	Enter Absolute Numbers Start At: 1				
	Enter Absolute Numbers Prefix: txt				,
	Select Create				
16	Import a text file	DOORS: Configure Import window will	_		
	 Select Tools -> Import -> Plain Text 	open	>		
	• Enter File to be Imported:				
	C:\ProgramFiles\DOORS\Testing \Test-				
				-	

il Comments					 "Select Tools -> Export to Word" should read "Select Tools -> Export to DOORS" "Enter Absolute Numbers Prefix." should read "Enter Module Prefix" Bullets 4 and 5 should be switched in order 	Add instruction after bullet 2 "If prompted to save, select yes"
s F2						
Pas		>				>
Expected Result		The Test-TXT module will display two columns (Object Identifier and Test Text) and contain 20 objects (txt1-txt20)	DOORS: Project Manager window will be displayed Microsoft Word will open and display the Test-Word.doc file.		The DOORS Formal Module: 'Test- Word' current 0.0 window will open and will contain the object identifier and Test Word columns.	DOORS: Project Manager window will be displayed
Instruction	TXT.txt Select Import	 Select Decomposition level: Sentence w/ keywords Highlight keywords "must", "shall", and "will" Select Import 	 Close the Test-Text Module If prompted to save, select yes Open Microsoft Word (Start -> Program Files -> Microsoft Word) 	 Open file: C:\ProgramFiles\DOORS\Testing \Test- Word.doc (File -> Open) 	 Export the file to DOORS Select Tools -> Export to Word Enter Formal Module Name: Test-Word Enter Description: Test Word Enter Absolute Numbers Start At: 1 Enter Absolute Numbers Prefix: word Accept the default checkmarks on Remove Heading Numbers and Capture Paragraph Styles Select Export Navigate to DOORS 	 Navigate to Microsoft Word Close Microsoft Word Navigate to DOORS Close the Test-Word module
Step Num		17	18		50	17

InstructionExpected Fompted to save, select yesExpected Fnew descriptive moduleThe DOORS Descriptivenew descriptive moduleThe DOORS Descriptivect Module -> New DescriptiveDesc' current 0.0 windculeDesc' current 0.0 windculeWill contain one object.will contain one object.Start At: 1r Description: Test DescriptiveLestr Description: Test DescriptiveStart At: 1	Expected F The DOORS Descriptiv Desc' current 0.0 windc will contain one object.	tesult we will open and	Pass	Fail	Comments
r Description: Lest Descriptive r Absolute Numbers Start At: 1 r Absolute Numbers Prefix: DSC r File: rogramFiles\DOORS\Testing \ Test-			- .		
txt ct Create					
e the Test-TXT module DOORS: I be display ompted to save, select yes be display now displa	L DOORS: H be display now displa	Project Manager window will ed. The Project Manager will ly three module choices.	>	A F A S A F A	esult should read DOORS: Project fanager window wi e displayed. The roject Manager wil ow display four nodule choices."
new formal module The DOOR ct Module -> New Formal Module RTF' currer New Formal Module window will be blar r Formal Module Name: Test-rtf r Description: Test RTF (HTML) r Absolute Numbers Start At: 1 r Absolute Numbers Prefix: htm ct Create	The DOOR RTF' curren will be blar	S Formal Module: Test- nt 0.0 window will open and hk.	>		
t test RTF file The DOOR select Tools -> Import -> RTF be displayed	The DOOR be displayed	S Import RTF window will I.	>		
r DOORS Ma	DOORS Ma	ID RTF Files window will	>		

Step	Instruction	Expected Result	Pass	Fail	Comments
Num		1			
	C:\ProgramFiles\DOORS\Testing\Test- HTMI aff in the file to be immorted field	open.			
	Select Import				
27	Select the Select All button	The DOORS Formal Module: Test-	>		
	Enter Settings file	RTF current 0.0 window will open and			
	C:\ProgramFiles\DOORS\Testing\Test- HTML.rtf	will contain 45 objects.			
	Select Import				
28	Close the Test-rtf module	DOORS: Project Manager window will	>		
	 If prompted to save, select yes 	be displayed.			
29	Create a link module	The DOORS Link Module: 'Test-Link'	>		
	 Select Module -> New Link Module 	current 0.0 window will open and will			
	On the New Link Module window	be empty.			
	Enter Link Module Name: Test-Link				
	Enter Description: Test Link				
	Enter Mapping: Many-to-Many				
	Select Create				
30	Create a new linkset	The DOORS Link Module: Test-Link'	>		
	 Select Linkset -> New 	current 0.0 window will open and will			
	On the DOORS: New Linkset window	display a graphical view of the			
	Select Source: Test-TXT	intersection points between the Test-Txt			
	Select Target: Test-Excel	and Test-Excel modules.			
	Select Create				
31	Highlight the bottom, right-hand square of	A blue highlight will fill all squares on	>		
	the graphical matrix	the bottom row and right-most column.			
32	Right-click on the bottom, right-hand	DOORS: Edit Link Object window will	>		
	square of the graphical matrix	open displaying the source, target, and			
	Select New Link	attribute information.			
33	Select Close	The bottom, right-hand square of the	>		
		matrix will be displayed in dark blue,			
		indicating a link has been created.			
34	Create another new linkset	The DOORS Link Module: 'Test-Link'	>		

Step	Instruction	Expected Result	Pass	Fail	Comments
Num					
	 Select Linkset -> New 	current 0.0 window will open and will			
	On the DOORS: New Linkset window	display a graphical view of the			
	Select Source: Test-Excel	intersection points between the Test-			
	Select Target: Test-Txt	Excel and Test-Txt modules.			
	Select Create				
	• If asked to save the Test-Txt module,				
	select Yes.				
35	• Highlight the bottom, right-hand square of	A blue highlight will fill all squares on	>		
	the graphical matrix	the bottom row and right-most column.			
36	 Right-click on the bottom, right-hand 	DOORS: Edit Link Object window will	>		
	square of the graphical matrix	open displaying the source, target, and			
	 Select New Link 	auridute information.			
37	Select Close	The bottom, right-hand square of the	>		
		matrix will be displayed in dark blue,			
		indicating a link has been created.			
38	 Close the Test-Link module 	DOORS: Project Manager window will	>		
	• If prompted to save on any modules,	be displayed. The Project Manager will			
	select yes	now display four module choices.			
39	 Open the Test-TXT module 	The Test Text column in txt8 will have	>		Remove references to
	Scroll down and locate the incoming and	an orange "∢" symbol, indicating an			object numbers in
	outgoing links just created.	incoming link. The Test Text column in			results. Object
		txt10 will have a red ">" symbol,			numbers different for
		indicating an outgoing link.			each tester.
40	Navigate between modules using a link	DOORS Formal Module 'Test Excel'	>		
	 Right-click on the red outgoing link ">" 	current 0.0 window will be			
	symbol	displayed			
	 Highlight "Test Excel" 	Object Identifier and Test Excel			
	 Click on "Unloaded Object" 	Columns will be displayed			
		An object will be highlighted and			
		the Test Excel column will have an			
		orange "∢" symbol, indicating an			
		incoming link.			

Step Num	Instruction	Expected Result	Pass	Fail	Comments
41	Navigate back to the Test-TXT module using	DOORS Formal Module 'Test Text'	>		Remove references to
	 Right-click on the orange incoming link 	displayed			results. Object
	"∢" symbol	Object Identifier and Test Text			numbers different for
	 Highlight "Test Text" 	Columns will be displayed			each tester.
	Click on the object text that is displayed	 Object txt10 will be highlighted and 			
		the Test Text column will have a red			
		">" symbol indicating an outgoing link.			
42	Close all open modules	DOORS: Project Manager window	>		
	• If prompted to save, select Yes.	will be displayed.			
43	Delete a link	 The DOORS Link Module: Test- 	>		Edit second bullet in
	Open the Test-Link Module	Link' current 0.0 window will open			results as follows:
	 Select the "Test-Excel -> Test-TXT" 	and will display a graphical view of			A blue highlight
	linkset from the pull-down menu in the	the intersection points between the			will fill all
	toolbar	Test-Excel and Test-Txt modules.			squares on the
	Click on the bottom, right-hand, dark blue	A blue highlight will fill all squares			bottom row and
	square of the graphical matrix to select the	on the bottom row and right-most			right-most
	link	column. This highlight will show a			column. This
	Right-click on the bottom, right-hand	connection between "9 Exc 50" and			highlight will
	square of the graphical matrix	"2.0-1 Presently, the requirements			show a
	Select Delete Link	ar".			connection
	Select Confirm on the Confirm deletion	 The bottom, right-hand square of the 			between "9 Exc
	window	graphical matrix will no longer be			50" and "2.0 1
		dark blue.			Presently, the
					requirements ar".
44	Close the Test-Link module	DOORS: Project Manager window will	>		Results should read
	 If prompted to save, select yes 	be displayed. The Project Manager will			"DOORS: Project
		now display five module choices.			Manager window will
					be displayed. The
		Note: Link modules can be used to			Project Manager will
	•	view all links between modules within a		ļ	now display six

_ . . . _

				;	
Step	Instruction	Expected Result	Pass	Fail	Comments
Num					
		project.			module choices."
45	Close DOORS	DOORS will close without incident.	>		

Tested by: < Original working copy test cases signed by testers. >

Print and Sign Name

<April 11, 2000>

Date

RPP-6251 REV. 0

8.2 Test Case Number: DOORS-2

Test Case Title: DOORS General Use (Views, Filters, Sort, Reporting, Export, Baseline, History)

Requirements to be verified

Z	Remirement Description
	Will dilerv on subsets of requirements and look at relationshins between requirements
5	Will generate the requirement's section of new contracts from the requirements database
33	Will extract the requirements set associated with a life cycle phase and use it as a checklist to see if all the requirements for that
	phase have been met.
6	Will periodically examine the requirements to determine their continued applicability
13	Will provide information about requirements to contractors and ORP management.
15	Will periodically examine the requirements in the system for interfaces to determine their continued annlicability
18	Will query the database to determine what entities are affected by a change in a requirement
19	Will query the database to determine which entities are responsible for the execution of a requirement
22	Wants to be able to generate the requirements' section of the Mission Analysis Report from the Requirements database
34	The requirements will be baselined and an electronic change control mechanism must be provided.
35	Previous versions of the requirements will be available.
36	The system will be able to report on the differences between versions
39	Reports shall include an arbitrary number of requirements attributes that can be specified by the user. (Attribute examples:
	Responsible Organization, Major Facility)
9	Reporting may include the entire requirements' matrix or a selected subset of the matrix.
41	Requirements matrix shall be capable of reporting in textual or graphical format.
42	Requirements may be grouped hierarchically, if so drill-down capabilities shall be provided so that users can get an overview of
	the requirement categories followed by increasing levels of detail in the category of interest.
43	The system shall report requirements in such a manner that the output may be used as a legal document following a user
	described format. For example, the PIO Requirements Management system will be able to generate the requirement's section for
	the contracts.
4	The system shall be able to generate reports to the screen, paper, and the web (HTML).
49	The system must provide the capability to export a requirements subset for further analysis (e.g. into Excel)
63	While much of the impact analysis work will be manual, the system must be capable of showing related requirements and any
	selected attributes of the requirements (see sections on flexible reporting and impact analysis)

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change to a uting a requirement			Comments			
ted by a c for exect			Fail			
ting). be affect oonsible			Pass	>	>	>
orting capabilities. Int attributes (See section on flexible reportable to report on which organizations will able to report on which organization is respect.	cal Area Network (HLAN) on testing workstation orkstation n workstation.		Expected Result	DOORS: Project Manager window will open displaying a list of available projects.	 DOORS: Project Manager - Test Project <your name=""> will open</your> DOORS: Formal Module Test Excel' current 0.0 will display the Text Excel View and will contain six columns. 	 A DOORS Export progress window will display during the process which may take several minutes. Microsoft Word will display a table. The first column will contain the DOORS Object Identifiers from the Test-Excel module.
The system must allow very flexible, ad hoc rep Users must be able to query based on requireme The requirements management system must be a requirement. The requirements management system must be Ad-hoc reporting functionality must be available	Set-up User is required to be logged on to the Hanford Lc DOORS 4.1.4 SR2 (production) must be installed Microsoft Word 97 must be installed on testing we internet Explorer 4.0 or higher must be installed or	<u>ise</u>	Instruction	Open DOORS using Production Server Data (Start->Programs->DOORS->DOORS Production)	 Open Test Project <your name=""> (created in DOORS-1)</your> Open the Test-Excel Module Select the Test Excel View from the View Pull Down Menu 	 Export the module to Microsoft Word Select Tools -> Export -> Microsoft Office -> Word 95/97 On the DOORS: Export to Word window Select Layout: Table Accept default checkmark next to Include DOORS Heading Numbers
71 79 81 82 87	Testing • I • I • I	<u>Test Ca</u>	Step Num		8	ŝ

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	Select Export				
	 Navigate to Microsoft Word 				
4	Close Microsoft Word	Microsoft Word will close without	>		
	• If prompted to save, save as	incident.			
	TestExport.doc				
Ś	Navigate to DOORS: Formal Module Test-	DOORS: Formal Module Test Excel'	>		
_	Excel current 0.0	current 0.0 will display the Text Excel View and will contain six columns.			
9	Export the module to Microsoft Excel	Microsoft Excel will display a	>		
	Select Tools -> Export -> Microsoft	spreadsheet. The first column will			
	Office -> Excel 97	contain the DOORS Object Identifiers			
	On the DOORS: Export Excel window	from the Test-Excel module.			
	Accept default selection of 'Main' column:		····		
	Ignore				
	Accept default checkmark next to Include				
	column titles				
	Select Export				
	Navigate to Microsoft Excel				
٢	Close Microsoft Excel	Microsoft Excel will close without		>	 DOORS displayed
_	• If prompted to save, save as	incident.			error "OLE Method
	TestExport.xls				Failed. Problem
					with OLE
					Argument names."
					 Excel did not close
					and only displayed
					159 of 255 records
					(objects).
					 DOORS was
	•				"frozen" and
					required Windows
					Close Program/End
					Task to close
					window.

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Step Num	Instruction	Expected Result	Pass	Fail	Comments
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<ul> <li>Apply a Filter to locate information within the Test-Excel module</li> <li>Select Tools -&gt; Filter</li> <li>On the DOORS: Filter window</li> <li>Select Attribute</li> <li>Select Attribute</li> <li>Select Owner Company from the pull down list</li> <li>Accept Default of "="</li> <li>Enter "WMH" in the blank field next to the "="</li> <li>Select Define Simple</li> <li>Select Apply Simple</li> </ul>	The DOORS Filter window will display Accepted: 71(28%) and Rejected: 184 near the bottom of the window.	>		
6	<ul> <li>Select Close</li> <li>Inspect the results of the filter in the Test- Excel module</li> </ul>	<ul> <li>DOORS: Formal Module Test Excel' current 0.0 will display the Text Excel View and will contain six columns.</li> <li>Only objects with Owner Company of WMH will be displayed.</li> </ul>	<u>^</u>		
10	<ul> <li>Run a report within the Test-Excel module</li> <li>Select Tools -&gt; Report Wizard</li> <li>Report Wizard -1. Welcome to the Report Wizard</li> <li>Select Welcome to the Report Wizard</li> <li>Select Next</li> <li>Select Next</li> <li>Report Wizard - 2. Select a View of the Module</li> <li>Accept default of Use the current presentation</li> <li>Select Next</li> <li>Report Wizard - 3. Select a Page Layout for the Module</li> <li>Accept default of Create a new Page</li> <li>Accept default of Create a new Page</li> </ul>	<ul> <li>DOORS: Formal Module Test Excel' current 0.0 will display the Text Excel View and will contain six columns.</li> <li>Only objects with Owner Company of WMH will be displayed.</li> </ul>	>		

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Step Num	Instruction	Expected Result	Pass	Fail	Comments	
	Layout					
	Select Next					
	<ul> <li>Report Wizard - 4. Welcome to the Page</li> </ul>					
	Layout Wizard					
	Select Next					
	<ul> <li>Layout Wizard - 5. Page Setup</li> </ul>					
	<ul> <li>Accept all defaults</li> </ul>					
	Select Next					
	<ul> <li>Layout Wizard - 6. The Title Page</li> </ul>					
	<ul> <li>Accept default of Include Title Page</li> </ul>					
	<ul> <li>Enter Header: "Test Report - "</li> </ul>					
	followed by your name (e.g. Test					
	Report - Adria)					
	<ul> <li>Accept default footer information</li> </ul>					
	Select Next					
	<ul> <li>Layout Wizard - 7. The contents Page</li> </ul>					
	<ul> <li>Accept all defaults</li> </ul>					
-	Select Next					
	Layout Wizard - 8. Module Format					
	<ul> <li>Accept all defaults</li> </ul>					
	Select Next			_		
	Layout Wizard - 9. Headers and Footers					
	<ul> <li>Accept all defaults</li> </ul>		•			
	Select Next					
	<ul> <li>Layout Wizard - 10. Name your Page</li> </ul>					
	Layout					
	<ul> <li>Enter your name in the Name field</li> </ul>					
	(e. g. Adria)					
	Select Next					
	<ul> <li>Report Wizard - 11. Test your report</li> </ul>					
	Select View					
	Continue with Wizard					

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Step Num	Instruction	Expected Result	Pass	Fail	Comments	
	<ul> <li>Report Wizard - 11. Test your report (cont.)</li> <li>Select Next</li> </ul>					
	Report Wizard - 12. Name your report     Enter Name. "Tool "6010000 https://www.					
	<ul> <li>Ellici Ivaine: Lest Tollowed by your name (e.g. Test Adria)</li> </ul>					
	Enter Description: Test Report					
	Select Next					
_	<ul> <li>Report Wizard - 13. Finish</li> <li>Select Finish</li> </ul>					
11	Preview the report	DOORS: Formal Module Test	>			 
	Navigate to the DOORS Project Manager	Excel' current 0.0 will display the				
	window.	Text Excel View and will contain				
	<ul> <li>Select Tools -&gt; Report Manager</li> </ul>	six columns.				
	On the DOORS: Report Manager window	Only object with Owner Company				
	Highlight Modules: Test-Excel and	of WMH will be displayed.				
	Reports: Test_ <your name=""></your>					
3	Select View					
12	Preview the results of the report in print	DOORS: Print Preview Test Excel	>			
	preview	window will be displayed.				
	<ul> <li>Select Module -&gt; Print Preview</li> </ul>	The report displayed will show Test				
	Accept default printer and pages All	Report <your name=""> near the top of</your>				
	<ul> <li>Select Preview</li> </ul>	the page.				
13	<ul> <li>Close the Print Preview window.</li> </ul>	DOORS: Formal Module 'Test Excel'	>			
	<ul> <li>Close the Report Manager window</li> </ul>	current 0.0 will display the Text Excel				
	<ul> <li>Turn off the filter by selecting the filter</li> </ul>	View and will contain six columns in its				•
	icon on the DOORS tool bar. (The filter	original format containing all Owner				
	icon looks like a funnel.)	Companies.				
14	Baseline the Test-Excel module	<ul> <li>The Test-Excel module will close.</li> </ul>	>			<u> </u>
	<ul> <li>Select Module -&gt; Baseline</li> </ul>	<ul> <li>DOORS: Project Manager window</li> </ul>				
	On the Baseline window	will remain open displaying a list of				<u> </u>
	<ul> <li>Accept all defaults</li> </ul>	available projects.				

Step	Instruction	Expected Result	Pass	Fail	Comments
Num					
	Select Major version				
	Select Save				
15	Open the Test-Excel Module	DOORS: Formal Module Test Excel	>		
	Select the Test Excel View from the View	current 1.0 will display the Text Excel			
	Pull Down Menu	View and will contain six columns.			
16	Make a change to the Test-Excel Module	The change bar between the Object	>		
	<ul> <li>Double-click on the first object in the</li> </ul>	Identifier and Test Excel columns on the			
	Application Acronym column	row of the changed cell will be red,			
	Change the acronym from BLTC-CONT	indicating a change has been made to			
	to CONT-BLTC	the object.			
	Move the cursor out of the cell by clicking				
	somewhere else on the screen.				
17	Save the changes	The change bar between the Object	>		
	<ul> <li>Select Module -&gt; Save</li> </ul>	Identifier and Test Excel columns on the			
		row of the changed cell will be yellow,			
		indicating a change has been made to			
		the baseline.			
18	Double-click on the yellow change bar, to	The DOORS: History window will open	>		
	inspect the change	and will display the changes made to the			
		object. Notice the modification			
		describes the change made above.			
19	Select Close on the History window.	DOORS: Formal Module 'Test Excel'	>		
		current 1.0 will display the Text Excel			
		View and will contain six columns.			
20	Re-Baseline the Test-Excel module	<ul> <li>The Test-Excel module will close.</li> </ul>	>		
	Select Module -> Baseline	<ul> <li>DOORS: Project Manager window</li> </ul>			
	On the Baseline window	will remain open displaying a list of			
	<ul> <li>Select Baselines Available 1.0</li> </ul>	available projects.			
	Select Minor version				
	Select Save				
21	<ul> <li>Open the Test-Excel Module</li> </ul>	DOORS: Formal Module 'Test Excel'	>		

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<April 11, 2000> Date

Print and Sign Name

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Tested by:

< Original working copies of test cases signed by testers >

8.3 Test Case Number: DOORS-3

Test Case Title: DOORS Change Proposal System

# **Requirements to be verified**

No.	Requirement Description
52	The drivers for internal change can be bottom up or top down. The change control team will have a process to handle both and
	the interface team will have processes to manage all interfaces changes. The PIO Requirements Management System must
	assist both of these teams in managing changes to requirements. Additionally, the system must help track changes to externally
	generated requirements such as DOE Orders, regulations, etc.
54	The proposed change must be captured.
55	The justification for the proposed change must be captured.
56	The person proposing the change and the date of the proposal will also be captured.
57	The persons responsible for monitoring external changes must be able to capture that a change is likely or that a change has
	occurred.
58	The responsible persons will analyze the change and its impact. The system must capture a summarization of their analysis and
	their recommendation as to whether or not this requirement should be challenged.
62	The system must have the capability to notify individuals who are responsible for reviewing proposed changes to the
	requirements baseline that changes have been requested.
4	The system must be capable of receiving inputs from the reviewers as to their approval or disapproval of a proposed change to
	the requirements baseline and the reason for their decision.
65	The system must be capable of producing reports of the history of all changes to a requirement and the justification for the
	changes.
67	The proposer will be able to see the status of a proposed change.
72	The system must capture challenge requests and handle them in the same way as other requests for changes (see section on
	change control).

## **Special Instructions**

This test case (DOORS-3 Change Proposal System) and DOORS-4 DOORSNet are to be performed concurrently. Test case steps in this script (DOORS-3) should be started first. Test case steps will include instructions for changes in test case use.

**Testing Set-up** 

- User is required to be logged on to the Hanford Local Area Network (HLAN)
  - DOORS 4.1.4 SR2 (production) must be installed on testing workstation
    - DOORSNet 2 must be installed on the testing workstation
- Microsoft Word 97 must be installed on testing workstation
- Internet Explorer 4.0 or higher must be installed on workstation.

#### Test Case

Step Num	Instruction	Expected Result	Pass	Fail	Comments	
-	Open DOORS using Production Server Data (Start->Programs->DOORS->DOORS Production)	DOORS: Project Manager window will open displaying a list of available projects.	>			T
5	Open the Test Project - <your name=""> Project (e.g. Test Project - Adria)</your>	DOORS: Project Manager - Test Project - <your name=""> window will open displaying a list of available modules.</your>	>			Τ
θ	Setup the Change Proposal System Select Tools -> Change Proposals -> Setup CP System	DOORS: Set up project for review window will open.	>			[
t	<ul> <li>Highlight all modules in the list of available modules (Test-Excel, Test-TXT, and Test-Word)</li> <li>Select the Right Arrow to move the selected modules to the Modules for review list</li> <li>Select Apply</li> <li>Select Close</li> <li>Select Close</li> <li>Select OK (when prompted with explanation of CP modules and default access rights)</li> </ul>	<ul> <li>Ine LOOKS: Froject Manager - 1est Project <your name=""> window will now list all available modules, including seven new modules. The new modules will include:</your></li> <li>Change Proposal Links</li> <li>Change Proposal Links</li> <li>Change Proposal Users</li> <li>Change Proposal Users</li> <li>CP-Test Excel</li> <li>CP-Test Word</li> </ul>	>			
		CP_Suggestions				

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Step	Instruction	Expected Result	Pass	Fail	Comments
		DOODS. Dublich Broizet mindom mill			
n	Select Tools -> DOORSNet -> Publish	open displaying the available modules.	>		
		DOODS: Droiect Manager usindow will	>		
٥	• Highlight lest-Excel, lest-1A1, and Test-Word in the available modules	open displaying the available modules.	>		
	list	It will appear unchanged.			
	<ul> <li>Check the Publish Current Project</li> </ul>				
	checkbox				
	Select the Right Arrow to move the				
	selected modules to the Published				
	modules list				
	Uncheck the Allow anonymous access				
	checkbox				
	Select OK				
	When prompted "The user 'guest' does				
	not exist for this project. Would you				
	like to create this user now?", Select				
	Yes				
	<ul> <li>If prompted to remember to change</li> </ul>				
	the guest user password, select OK.				
	When prompted "The user 'external'				
	does not exist for this project. Would				
	you like to create this user now?",				
	Select No				
٢	Setup Email for the Change Proposal system	DOORS: Change Proposal System	>		
	Select Tools -> Change Proposals -> Email	Email window will open.			
	Options		,		
œ	Select Enable email	The DOORS: Change Proposal System	>		
	Select Send email automatically	Email window will close and the Project			
	Select your name from the choices of	Manager window will be displayed.			
	Windows Messaging profiles listed.				
	Select Apply				
	Select Close				

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Step Num	Instruction	Expected Result	Pass	Fail	Comments	Г
6	COMPLETE STEPS 1 THROUGH 10 ON SCRIPT DOORS-4 DOORSNET.	N/A				Г
10	Open the CP-Test-Word Module by double- clicking on it	The DOORS Formal Module: 'CP-Test- Word' current 0.0 window will open.	>			
11	Review change proposals	DOORS: Review Change Proposals	>			T
	<ul> <li>Select Tools -&gt; Change Proposal</li> </ul>	window will open. The change proposal				
	System -> Review	information for the change proposal				
		created on the DOORS-4 test script will				
		be displayed. (Refer to DOORS-4, step				<u> </u>
4		o loi citalige proposal nurifoer.)				Т
17	<ul> <li>Change Priority to Very High</li> </ul>	DOORS: Review Change Proposals	>			
	Change Status to Approved	window will open. The DOORS Formal				
	Enter "Test Comments" in the Review	Module: 'CP-Test-Word' current 0.0				
	Comments Field	window will open. (If the module opens				· · · ·
	Select Commit Changes	in graphics mode turn it off by selecting				
	Select Close	View -> Graphics, or selecting the icon				
		that looks like an org chart.) Notice the				
		status column of the subject change				
		proposal will now read "Approved"				
13	Apply the approved change	The DOORS: Apply Change Proposals	>			
	Select Tools -> Change Proposal	window will open. There will be "1"				
	System -> Apply	approved changes in current module.				
14	<ul> <li>Accept default Log file location</li> </ul>	The DOORS Formal Module: 'CP-Test-	>			<u> </u>
	<ul> <li>Select Apply Current</li> </ul>	Word' current 0.0 window will open.				
	<ul> <li>Select OK on DOORS notification</li> </ul>	Notice the status column of the subject				
	window which reads "Modified Word-	change proposal will now read				
	3 in Test-Word"	"Applied"				
15	View the changes made to the object.	DOORS: History window will open	>			T
	Highlight the object (change proposal)	displaying all changes made to the				
-	<ul> <li>Select Object -&gt; History</li> </ul>	subject change propsal.				
16	<ul> <li>Review Changes</li> </ul>	The DOORS Formal Module: 'CP-Test-	>			
	<ul> <li>Select Close to close the DOORS:</li> </ul>	Word' current 0.0 window will open.				
	History window					

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Step Num	Instruction	Expected Result	Pass	Fail	Comments	Γ
17	Close DOORS	DOORS will close without incident.				Τ
	<ul> <li>Close the CP-Test-Word module</li> </ul>					
	<ul> <li>If prompted to save, select yes.</li> </ul>					
	<ul> <li>Close DOORS Project Manager</li> </ul>					
18	<b>COMPLETE REMAINDER OF DOORS-4</b>	NA				Γ
	.					]
Tested b	y: < Original working copies of test cases sig	med by testers >	April 11, 2	<000		
	Print and Sign Name		ate			

Date

8.4 Test Case Number: DOORS-4

# Test Case Title: DOORSNET General Use

## **Requirements to be verified**

No.	Requirement Description
29	Contractor staff, who are responsible for managing requirements and finding ways to complete the mission more efficiently
	and effectively, need to be able to view the parent requirements from which contractor requirements may have been derived.
	trace relationships between requirements, and suggest changes to requirements.
4	The system shall be able to generate reports to the screen, paper, and the web (HTML).
62	The system must have the capability to notify individuals who are responsible for reviewing proposed changes to the
	requirements baseline that changes have been requested.
66	The system must be capable of producing a summary of all proposed changes and their status.
103	Access must not require the installation of any additional software on the user's workstation other than the normal network
	software and/or Web browser.
104	Anybody must be able to propose a change.
116	Any web screens must be compatible with Internet Explorer 4.0 or above.

## **Special Instructions**

Test case DOORS-3 Change Proposal System and this test case (DOORS-4 DOORSNet) are to be performed concurrently. Test case steps in script DOORS-3 should be started first. Test case steps will include instructions for changes in test case use.

## **Testing Set-up**

- Ensure Internet Explorer 4.0 or higher is installed on workstation.
- User is required to be logged on to the Hanford Local Area Network (HLAN)
  - User is required to have access to their email account

Step	Instruction	Expected Result	Pass	Fail	Comments
MumN					
	Open Internet Explorer (Start ->Programs-	Internet Explorer should open with the	>		All Testers entered
	>Internet Explorer)	Hantord Intranet home page visible.			Internet Explorer
	Enter version number in comment field				Version 5.01
	of this test script (version is shown on				
	title bar of Internet Explorer, e. g.				
	"Hanford Intranet - Microsoft Internet				
	Explorer 5.01 Hanford ESDS [990712]")				
2	Access the DOORSNet access page by	The DOORSNet access page will open	>		
	entering the following URL in the Address	displaying "Welcome to DOORSNet"			
	field:	near the top of the page.			
	http://apdoorswprd/doorsnet				
ε	Enter your name and email address in the	DOORSNet Access Page for the user	>		
	appropriate fields and select OK.	will be displayed. User name will be			
		included in the title near the top of the			
	Example:	page.			
	Name: Adria Johnson				
	Email address: adria_1_johnson@rl.gov	Example:			
		DOORSNet Access Page for Adria			
		Johnson			
4	Select the Test Project - <your name=""></your>	DOORSNet page displaying available	>		
	project	modules in the Test Project - <your< td=""><td></td><td></td><td></td></your<>			
	<ul> <li>Enter User Name "Guest"</li> </ul>	name> project will be displayed.			
	Do not enter a Password	"Please select a view" will be displayed			_
	Select OK	near the top of the page.			
S	Select Preferences to move to the	DOORSNet page displaying available	>		
	Preferences page.	modules in the Test Project - <your< td=""><td></td><td></td><td></td></your<>			
	Check the box next to "Notify updates by	name> project will be displayed.			
	email".	"Please select a view" will be displayed			
	• Enter your email address in the email	near the top of the page.			<i></i>
	tield.				

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Test Case

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Step Num	Instruction	Expected Result	Pass	Fail	Comments
	<ul> <li>Select OK</li> <li>When prompted with "User Preferences Saved", select OK</li> </ul>				
6	Highlight the Test-Word module, select Table Format, and select OK	DOORSNet page displaying the selected module will be displayed. "Test-Word: Standard View" will be displayed near the top of the page.	>		
7	Select the "show actions" button (a large blue bullet icon) in the third table row and Test Word column, and select the link "Submit a change proposal".	DOORSNet page for change proposals will be displayed. The top of the page will read "New change proposal for object Word3".	>		
∞ 0	<ul> <li>In the Reason for change field, enter your name followed by the word "test". Example: Adria Johnson test</li> <li>Leave Change Type and Priority at the default selections</li> <li>Change object text to start with your initials followed by the word "test" Example: AJ TEST</li> <li>Select Submit</li> <li>Enter the change proposal number in the comment field of this test script</li> <li>Select OK</li> <li>Select the "show actions" button next to the second table entry, and select the link "Show details of change proposal".</li> </ul>	<ul> <li>Confirmation window will be displayed that reads "Created change proposal 'CP-x-x". (x's represent numbers that will be unique to each test.)</li> <li>After selecting OK, DOORSNet page displaying the selected module will be displayed. "Test-Word: Standard View" will be displayed near the top of the page. The show actions button for the selected object will have changed to a button with a comment flag on it.</li> <li>DOORSNet page for change proposals will be displayed. The top of the page will be displayed near the top of the page. The show actions button for the selected object will be unique to each test.)</li> </ul>	>		All Testers entered change proposal number "CP-TI-4"
10	Review the change proposal information to ensure it is what was submitted, select Back.	DOORSNet page displaying the selected module will be displayed. "Test-Word: Standard View" will be displayed near	>		

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Step Num	ļ	Instruction	Expected Result	Pass	Fail	Comments
	ļi		the top of the page.			
11	222	OMPLETE STEPS 10 THROUGH 17 ON CRIPT DOORS-3 CHANGE PROPOSAL YSTEM.	N/A			
12	•	Open Microsoft Outlook and access the inbox.	A new message will be displayed in the inbox, with the subject line "Change Proposal Update".	>		Comment – Three messages received. One message was sent for each change.
13	• •	Review then close the new message Return to DOORSNet	DOORSNet page displaying the selected module will be displayed. "Test-Word: Standard View" will be displayed near the top of the page.	>		
14	• •	Select Show Proposals from the DOORSNet menu found at the top of the page. Select Show All Proposals	DOORSNet page displaying the change proposals for the Test-Word module will be displayed. "All proposals (from the last 30 days)" will be displayed near the top of the page.	>		
15	• •	Locate the change proposal number entered during step 8 of this test. Select the Details Icon located on the same row of the located change proposal number.	DOORSNet page for change proposals will be displayed. The top of the page will read "Change proposal CP-x-xxxx for object xxx". (x's represent numbers that will be unique to each test.)	>		
16	• • •	Review the change proposal information to ensure updates match the Change Proposal Update email message. Select Back at bottom of page to return to the "All proposals (from the last 30 days)" page Select Back at bottom of page again	DOORSNet page displaying the selected module will be displayed. "Test-Word: Standard View" will be displayed near the top of the page.	>		
17	•	Select Close Project	DOORSNet Access Page for the user will be displayed. User name will be included in the title near the top of the page.	>		

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Step Num	<u> </u>	Instruction	Expected Result	Pass	Fail	Comments	
18	•	Close Internet Explorer	Internet Explorer will close without incident.	>			
Tested b	by:	< Original working copies of test cases sig	gned by testers >	<april 11,="" 2<="" td=""><td>&lt;0003</td><td></td><td></td></april>	<0003		
		Print and Sign Name		Date			
DOORS-5							
-------------							
ase Number:							
Test C							
8							

# Test Case Title: DOORS User Access

# **Requirements to be verified**

	User/Area	Requirement	Resolution
4	DOE ORP Staff	Will not update requirements.	Read only access will be granted to limit
,			the user from updating requirements.
9	Initial Load Reviewers	Will load requirements into the PIO	Read/Write access will be granted
		Requirements database.	allowing the users to load requirements
			into the PIO Requirements database.
~	Initial Load Reviewers	This user group will need read/write access to	Read/Write access will be granted to
		the requirements management tool. Once the	users identified as "Initial Load
		requirements are baselined, this user group will	Reviewers"
		disband.	
14	Requirements Management Team	This team will have requirements experts and	Read/Write access will be granted.
		will be heavy users (Estimate: 3 - 5 people) of	)
		the requirements database. This user group will	
		need read/write access to the requirements	
		management tool.	
15	Interface Control Team	Will periodically examine the requirements in	Read/Write access will be granted
		the system for interfaces to determine their	allowing users to read, filter, sort, and
		continued applicability	report on all requirements in the
			Requirements Management database.
18	Interface Control Team	Will query the database to determine what	Read/Write access will be granted
		entities are affected by a change in a	allowing users to read, filter, sort, and
		requirement.	report on all requirements in the
			Requirements Management database.
19	Interface Control Team	Will query the database to determine which	Read/Write access will be granted
		entities are responsible for the execution of a	allowing users to read, filter, sort, and
		requirement.	report on all requirements in the
			Requirements Management database.

			Dood/White occase will be granted
20	Interface Control Team	This team will have experts in interface	Kcau will access will or granica.
		requirements (Estimate: 2 - 4 people). 1 ne	
		team will need read/write access to the	
		requirements management tool.	
10	Project Management Plan Team	May query subsets of requirements and look at	Read Only or DOURSNet access will
1		relationships between requirements. However,	provide the user the ability to review the
		for most of their work they will be dependent	ORP Requirements and their related
		on data from the contractors.	links.
36	Change Control Team	Will determine which requirements are part of	Read Only or DOORSNet access can be
3	Change control remit	the technical baseline and what level of	granted allowing users to read, filter,
		approval is necessary for a change to a	sort, and report on all requirements in the
		narticular requirement.	Requirements Management database.
°C	I ifa Curda Taam	Must to be able to get a listing of the	Read Only or DOORSNet access can be
07	THIC CARL I CALL	requirements that relate to important	granted allowing users to read, filter,
		milestones in order to assist with 'What-If'	sort, and report on all requirements in the
		analysis. The completion date is a key	Requirements Management database.
		attribute of these requirements and needs to be	
		captured.	
20	Data Administrator	People in this role are experts in how the	Read/Write/Change access will be
		electronic system(s) works, are familiar with	granted to Data Administrators. This
		the data and act as gatekceper. They will have	type of access will allow them to read,
		the capability to make changes to the data	write, and change others' access.
		structures, backup and restore data, and assist	
		users access the data. They may also apply	
		changes that have been authorized by the	
		change board.	
21	System Administrator	This is a computer professional who will be	LMSI technical staff will perform system
•		responsible for managing the hardware and	administration duties.
		installing new versions of the software.	
		System Administrators do not need to be	
		familiar with the data or the internals of any	
		electronic tools. They need to know the	
		computer hardware and execute operating	
		system software and software installation	

		ntocaduras	
		proceedings.	
53	Change Notification for	The curetern mund accorded	
	Requirements under the Control of	initiating access for change requests by all	DOORSNet provides the ability to set up
	UKP	individuals and organizational entities within	changes without the need for an actual
99	Change Control Process	The motive access to a second se	DOORS user account.
		hu a member of the observed and updateable	DOORS can be configured to only allow
		of a monod of the cliange control team.	a member of the change control team to
93	Reliability Requirements	The system must provide archive canabilities	DOODS
6			and restore modules and anointy to archive
ţ	Security Requirements Control	The system shall provide several levels of	DOORS mrovides Dend Only.
-	Levels of Access	access, from read to update, to the	Read/Write, and Read/Write/Change
95	Serurity Deminant.	requirements.	levels of access
	access to the manifelity Control	Access to the system shall be based on	A user assigned to the role of contam
	T avels of A correctioned	network credentials or system specific	administrator has the shility to define
	Tevers of Access	credentials. The system administrator will	type of user log-in that will be used with
8	Contractive Documents	have full control over which to use.	the projects.
2	Security Requirements Control	The assignment of access level will not require	A liser assigned to the volc of anti-
	I evole of A access to the requirements	the services of a professional computer	administrator has the ability to define the
	TEACIN OF ACCESS	scientist.	type of user log-in that will be used with
5			the projects
2	Security Requirements Control access to the requirements	The system shall be capable of limiting access	DOORS provides the capability to limit
	Levels of Access	to subsets of the requirements (rows).	access at the object (row) or attribute
98	Security Requirements Control	The evetem shall be seened to a	(column) levels.
•	access to the requirements	to subsets of the attributes (column)	DOORS provides the capability to limit
	Levels of Access	a second of the attributes (columns).	access at the object (row) or attribute
66	Security Requirements Control	Since there is a hierarchical relation to	(column) levels.
	access to the requirements	between requirements or rate and a f	DOORS provides the capability to limit
	Levels of Access	requirements. viewing creation modification	access at the object (row) or attribute
		deletion of requirement elements can be	(column) levels.
106	Security Bennirements	controlled based on the hierarchical levels.	
	Terrority tradau criticities Control	A small number of people must have the	Read/Write access can be granted

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allowing users to approve changes and modify requirements as needed.	Read/Write access can be granted allowing users to approve changes and modify requirements as needed. DOORS provides the capability to limit access at the object (row) or attribute (column) levels.	Read/Write/Change access can be granted to allow administrators to create baseline and new versions.
capability to approve changes to the text of the requirements and apply these changes to the database.	A small number of people must be able to change the values of attributes associated with requirements. These people may be prevented from changing the requirement text.	The creation of a baseline and new versions will be limited to one or two people.
access to the requirements Levels of Access – Approve Change	Security Requirements Control access to the requirements Levels of Access - Approve Change	Security Requirements Control access to the requirements Levels of Access - Create new versions
	107	110

### **Testing Set-up**

- User is required to be logged on to the Hanford Local Area Network (HLAN)
  - DOORS 4.1.4 SR2 (production) must be installed on testing workstation
- Test Case must be performed for each type of user (Read/Write/Admin)
- ORP Requirements Module must be published for DOORSNet use with "Guest" user defined.

# **Testing Assumptions**

- Viewing, filtering, sorting and reporting requirements will be tested by the Read profile. Since DOORS access is inherited by each of the user groups, Write and Administrative profiles have all privileges that are granted to Read users.
  - Create and Edit requirements will be tested by the Write profile. Since DOORS access is inherited by each of the user groups, the Administrative profile has all privileges that are granted to Write users.
    - Access requirements will be tested by the Administrative profile.

#### Test Case

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User		Fail																														
Read		Pass	>			>											>			>									>			
Expected Result	4		DOORS: Project Manager	window will open displaying a	list of available projects.	DOORS Project Login window	will open displaying a list of	available login id's.		DOORS Project Manager - ORP	Requirements Test window will	open displaying a list of available	modules.				The DOORS Formal Module:	'TPA' current 0.2 window will	open.	DOORS will navigate to	Unloaded Object:605 object in	the 1-Technical module window.							The DOORS Filter window will	display Accepted: 4(3%) and	Rejected: 148 near the bottom of	the window.
Instruction			Open DOORS using Production	Server Data (Start->Programs-	>DOORS->DOORS Production)	Open the ORP Requirements Test	project by double clicking on it.		Log in as one of the following	users:		LMSI Test Admin	LMSI Test Read	LMSI Test Write		Password = test	Open the TPA module by double	clicking on it.		Follow Link	<ul> <li>Scroll down to requirement</li> </ul>	TPA-53	<ul> <li>Right-click on the outgoing</li> </ul>	link (red)	Click on the "1-Technical"	box	Choose the Unloaded	Object:605 link.	Apply a Filter to locate information	within the TPA module	<ul> <li>Select Tools -&gt; Filter</li> </ul>	On the DOORS: Filter window
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**PART A - DOORS** 

	Instruction	Expected Result	Read	User	Write	PY	min	Comr	nents	
					User	D	ser			
- 1			Pass	Fail	Pass Fail	Pass	Fail		e	
	<ul> <li>Accept defalut values.</li> <li>Select Annly Commonind</li> </ul>									
1	Select Close	<ul> <li>DOORS: Formal Module</li> </ul>	>							1
	• Inspect the results of the filter in the TPA module	TPA' current 0.2 will display the 1-Technical view with the								
		results from the filter.								
1	Run a report within the TPA	DOORS: Formal Module	>							T
	module	TPA' current 0.2 will display								
	<ul> <li>Select Tools -&gt; Report Wizard</li> </ul>	the 1-Technical view with the	0							
	<ul> <li>Report Wizard -1. Welcome to</li> </ul>	report results.								
	the Report Wizard									R
	<ul> <li>Select Create a New Report</li> </ul>									PP
	Select Next									-62
	Report Wizard - 2. Select a									:51
	View of the Module									RE
	<ul> <li>Accept default of Use the</li> </ul>									₹V.
	current presentation									U
	Select Next									
	<ul> <li>Report Wizard - 3. Select a</li> </ul>									
	Page Layout for the Module									
	<ul> <li>Accept default of Create a new</li> </ul>									
	Page Layout									
	Select Next									
	Report Wizard - 4. Welcome to									
	the Page Layout Wizard									
	Select Next									
	<ul> <li>Layout Wizard - 5. Page Setup</li> </ul>									
	<ul> <li>Accept all defaults</li> </ul>									
	Select Next									
	<ul> <li>Layout Wizard - 6. The Title</li> </ul>									

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User		Fail																														
Read		Pass																														
Expected Result	4																															
Instruction			Page	<ul> <li>Accept default of Include Title Page</li> </ul>	<ul> <li>Futer Header: "Test Renort - "</li> </ul>	followed by your name (e.g.	Test Report - Adria)	<ul> <li>Accept default footer</li> </ul>	information	<ul> <li>Select Next</li> </ul>	<ul> <li>Layout Wizard - 7. The contents</li> </ul>	Page	<ul> <li>Select all defaults</li> </ul>	Select Next	<ul> <li>Layout Wizard - 8. Module</li> </ul>	Format	<ul> <li>Accept all defaults</li> </ul>	Select Next	Layout Wizard - 9. Headers and	Footers	<ul> <li>Accept all defaults</li> </ul>	<ul> <li>Select Next</li> </ul>	<ul> <li>Layout Wizard – 10. Name your</li> </ul>	Page Layout	Enter your name in the Name	field (e. g. Adria)	Select Next	<ul> <li>Report Wizard – 11. Test your</li> </ul>	report	Select View	Continue with Wizard	Renort Wizard = 11 Test volir
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Expected Result	1											DOORS: Formal Module	"TPA' current 0.2 will display	the Test <your name=""> View.</your>							<ul> <li>DOORS: Print Preview TPA'</li> </ul>	window will be displayed.	1				DOORS: Formal Module TPA'	current 0.2 will display 1-	Technical view in its original	format containing all	requirements.	
Instruction			report (cont.)	Select Next	Report Wizard – 12. Name your	Enter Name: "Test " followed	by your name (e.g. Test Adria)	Enter Description: Test Report	Select Next	<ul> <li>Report Wizard – 13. Finish</li> </ul>	Select Finish	Preview the report	<ul> <li>Navigate to the DOORS Project</li> </ul>	Manager window.	<ul> <li>Select Tools -&gt; Report Manager</li> </ul>	On the DOORS: Report Manager	window	Highlight Modules: TPA and	Reports: Test_ <your name=""></your>	Select View	Preview the results of the report in	print preview	<ul> <li>Select Module -&gt; Print Preview</li> </ul>	<ul> <li>Accept default printer and pages</li> </ul>	All	<ul> <li>Select Preview</li> </ul>	Close the Print Preview	window.	<ul> <li>Close the Report Manager</li> </ul>	window	<ul> <li>Turn off the filter by selecting</li> </ul>	the filter icon on the DOORS
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Expected Result			Write Users:	The change bar before the RPP	Milestones column on the row of	the changed cell will be red,	indicating a change has been	made to the object.	Read Users:	The DOORS: History window	will open and will display the	changes that have been made to	the object. Notice there are no	modification descriptions to the	selected row for the current date		Write Users:	The DOORS: History window	will onen and will display the	changes made to the object	Notice the modification describes	the change made above.	Read Users:	The New and New one level	down options are unavailable	(gray)		Write Users:	A new empty object will be	inserted below the selected row.	DOORS: Project Manager	window will be displayed	Write Users:	The DOORS Formal Module:
Instruction			the screen.						Double-click on the change bar, to	inspect the change													Insert a new object	<ul> <li>Select the first object by</li> </ul>	clicking on it.	<ul> <li>Select Object -&gt; New one</li> </ul>	level down				<ul> <li>Close the TPA Module</li> </ul>	<ul> <li>If prompted to save, select yes</li> </ul>	Create a new formal module	<ul> <li>Select Module -&gt; New Formal</li> </ul>
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Evnerted Result			Test-Access <login tyep="">' current 0.0 window will open.</login>		DOORS: Project Manager window will be displayed	Read Users: DOORS Report window will appear with message: cannot delete module 'Test-Access': Only an administrator can carry out this option. Select OK. Write Users: Module 'Test-Access' will no longer appear in the Project manager window.	TPA' current 0.2 window will open. DOORS: Edit Access Rights: Module window will be	aispiayeu.
Instmistion			Module On the New Formal Module window • Enter Formal Module Name: Test-Access <logon type=""> (Ex., Test Access -Read) • Enter Description: Test Access • Enter Absolute Numbers Start</logon>	<ul> <li>At: 1</li> <li>Enter Absolute Numbers Prefix: acc</li> <li>Select Create</li> </ul>	<ul> <li>Close the Test-Access Module</li> <li>If prompted to save, select yes</li> </ul>	<ul> <li>Delete the Test-Access Module</li> <li>Select the Test-Access</li> <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li></ul>	Open the 1PA module by double clicking on it. Restrict Access to the TPA Module • Select Module -> Access	
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	Admin User	Pass Fail		>		>			
	Write	Pass Fail					>	>	>
-	ead User	ass Fail I							
	Expected Result	- L	Read/Write Users: All fields will be unavailable (gray) Select Close. Skip to Step 36.	Admin Users: The LMSI Test Write: RW user will change to LMSI Test Write: R		Admin Users: Changes will be applied to module.	DOORS Session will end	DOORS: Project Manager window will open displaying a list of available projects.	DOORS Project Login window will open displaying a list of available login id's. DOORS Project Manager – ORP Requirements Test window will open displaying a list of available modules.
	Instruction			<ul> <li>Accept Default Access Rights of Read</li> <li>Select LMSI Test Write:RW from the Users with defined nights box</li> <li>Uncheck the Write access</li> </ul>	<ul><li>box by clicking on it.</li><li>Select Apply Access Rights</li></ul>	<ul><li>Select Apply</li><li>Select Close</li></ul>	Close the ORP Requirements     Project	Check Access Changes have been applied <ul> <li>Open DOORS using Production Server Data (Start-&gt;Programs-</li> <li>&gt;DOORS-&gt;DOORS</li> </ul>	<ul> <li>Open the ORP Requirements project by double clicking on it.</li> <li>Log in as LMSI Test Write</li> </ul>
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Expected Result	· ·		The DOORS Formal Module: "TPA' current 0.0 window will open.	The object will not be opened to	edit.		DOORS Session will end			DOORS: Project Manager	window will open displaying a	list of available projects.				DOORS Project Login window	will open displaying a list of	available login id's.	DOORS Project Manager - ORP	Requirements Test window will	open displaying a list of available	modules.	The DOORS Formal Module:	TPA' current 0.0 window will	open.	DOORS: Edit Access Rights:	Module window will be	displayed.	
Instruction			• Open the TPA module by double clicking on it.	<ul> <li>Make a change to the</li> </ul>	Project Overview Module	<ul> <li>Double-click on the 1 Formal object.</li> </ul>	Close the TPA Module	Close the ORP	Requirements Project	Return module access to RW	<ul> <li>Open DOORS using</li> </ul>	Production Server Data	(Start->Programs-	>DOORS->DOORS	Production)	<ul> <li>Open the ORP</li> </ul>	Requirements project by	double clicking on it.	Log in as LMSI Test Admin	)			Open the TPA module by	double clicking on it.		Restore LMSI Test Write user	access to the TPA Module	<ul> <li>Select Module -&gt; Access</li> </ul>	
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Expected Result	4		The LMSI Test Write: R user will change to LMSI Test Write: RW								Changes will be applied to	module.	DOORS: Edit Access Rights:	Object window will be displayed.		Read/Write Users:	All fields will be unavailable	(gray). Select Close. Skip to	Step 51.	The LMSI Test Write: KW user	will change to LMSI Test Write:	R								Changes will be applied to object.		DOORS Session will end
Instruction			Accept Default Access     Rights of Read	<ul> <li>Select LMSI Test Write:R</li> </ul>	from the Users with defined	rights box	<ul> <li>Check the Read and Write</li> </ul>	access boxes by clicking on	them.	<ul> <li>Select Apply Access Rights</li> </ul>	Select Apply	Select Close	Restrict Access to the 1 Formal	Object	Highlight the 1 Formal	object by clicking on it.	<ul> <li>Select Object -&gt; Access</li> </ul>	,		<ul> <li>Select the radio button</li> </ul>	Access Rights are: Specific.	<ul> <li>Accept Default Access</li> </ul>	Rights of Read	Select LMSI Test Write:RW	from the Users with defined	rights box	<ul> <li>Uncheck the Write access</li> </ul>	box by clicking on it.	Select Apply Access Rights	Select Apply	Select Close	Check Access Changes have been
Step	Num		34								35		36						į	31										38		39

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Step	Instruction	Expected Result	Read	User	Wri	ਤ ' 	nbA Use	in r	Comments	
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	<ul><li>applied</li><li>Close the ORP Requirements Project</li></ul>									
40	<ul> <li>Open DOORS using Production Server Data (Start-&gt;Programs- &gt;DOORS-&gt;DOORS</li> <li>Production)</li> </ul>	DOORS: Project Manager window will open displaying a list of available projects.					>			
41	Open the ORP     Requirements project by     double clicking on it.	DOORS Project Login window will open displaying a list of available login id's.			>				F	T
	• Log in as LMSI Test Write	DOORS Project Manager – ORP Requirements Test window will open displaying a list of available modules.							RPP-6251 R	DD. 2021 DI
42	• Open the TPA module by double clicking on it.	The DOORS Formal Module: "TPA' current 0.0 window will open.			>				EV. 0	
43	Double-click on the 1 Formal object.	The object will not be opened to edit.				>			"LMSI Test Write" user appears to have read- only access to ALL objects in the TPA module.	
44	<ul> <li>Close the TPA Module</li> <li>Close the ORP</li> <li>Requirements Project</li> </ul>	DOORS Session will end			~					
45	Return module access to RW <ul> <li>Open DOORS using         Production Server Data             (Start-&gt;Programs-             &gt;DOORS-&gt;DOORS         </li> </ul>	DOORS: Project Manager window will open displaying a list of available projects.					>			

	· 1	1				R	PP-62	2 <del>51 REV</del>	.0	ľ			
Comments		Ĩ											
in	L	Fail											
Adm	Use	Pass		>		>	>		>		>	>	
ite	er	Fail								,			
Wr	Us	Pass										>	
l User		Fail											
Read		Pass	1		<u></u>							>	
Expected Result	¢			DOORS Project Login window will open displaying a list of available login id's.	DOORS Project Manager – ORP Requirements Test window will open displaying a list of available modules.	The DOORS Formal Module: TPA' current 0.0 window will open.	DOORS: Edit Access Rights: Module window will be	displayed.	The LMSI Test Write: R user will change to LMSI Test Write: RW		Changes will be applied to module.	DOORS: Define Attribute window will be displayed.	Read/Write Users:
Instruction			Production)	Open the ORP Requirements project by double clicking on it.	• Log in as LMSI Test Admin	Open the TPA module by double clicking on it.	Restore Access to the 1 Formal Object	<ul> <li>Highlight the 1 Formal</li> <li>object by clicking on it.</li> <li>Select Object -&gt; Access</li> </ul>	<ul> <li>Accept Default Access Rights of Read</li> <li>Select LMSI Test Write:R from the Users with defined rights box</li> <li>Check the Read and Write access boxes by clicking on them</li> </ul>	<ul> <li>Select Apply Access Rights</li> </ul>	Select Apply     Select Close	Restrict Access to the Total Regs. Attribute	<ul> <li>Select Attribute -&gt; Define</li> <li>Select the (4) Total Reqs.</li> </ul>
Step	Num			46		47	48		49		50	51	

. . . . ................

Step	Instruction	Expected Result	Kead User		r lie	Admin User	Comments
			Pass Fail	Pass	Fail	Pass Fail	
	attribute from the Attributes	All fields will be unavailable					
	DOX Coloot Edit accord rights for	(gray). Scient Crose, Ship to Sten 61					
	Aslect Eur access figures for.     Values box.	. To date					
52	Select the radio button	DOORS: Edit access rights:				>	
	Access Rights are: Specific.	Attribute values: '(4) Total Reqs.'					
	Select LMSI Test Write:RW	window will be displayed.					
	from the Users with defined					- 11	
	rights box	Admin Users:					
	<ul> <li>Uncheck the Write access</li> </ul>	The LMSI Test Write: RW user					
	box by clicking on it.	will change to LMSI Test Write:					
	<ul> <li>Select Apply Access Rights</li> </ul>	R					
53	Select Apply	Admin Users:				>	
	Select Close	Changes will be applied to					
		attribute.					
54	Check Access Changes have been	DOORS Session will end				>	
	applied						••••
	Close the ORP Requirements						
	Project						
55	Open DOORS using	DOORS: Project Manager				>	
	Production Server Data	window will open displaying a					
	(Start->Programs-	list of available projects.					
	>DOORS->DOORS						
	Production)						
56	Open the ORP	DOORS Project Login window		>			
	Requirements project by	will open displaying a list of					
	double clicking on it.	available login id's.					
	Log in as LMSI lest Write	Requirements Test window will					
		open displaying a list of available					
		modules.					

CI DI

Comments						ĸ	PP-02	51 KEV. U	
Admin	User	Pass Fail						>	>
Write	User	Pass Fail	>	>	>	>	>	>	>
Read User		Pass Fail							>
Expected Result	1		The DOORS Formal Module: TPA' current 0.0 window will open.	DOORS: Formal Module 'TPA' current 0.0 will display the Test View.	The object will not be opened to edit.	DOORS: Project Manager window will be displayed	DOORS Session will end	DOORS: Project Manager window will open displaying a list of available projects.	DOORS Project Login window will open displaying a list of available login id's. DOORS Project Manager – ORP Requirements Test window will open displaying a list of available modules.
Instruction			Open the TPA module by double clicking on it.	<ul> <li>Change Views</li> <li>Select Test View from the Available Views pull-down box.</li> </ul>	Double-click on any (4)     Total Reds. field.	<ul><li>Close the TPA Module</li><li>If prompted to save, select yes</li></ul>	Close the ORP Requirements     Project	Archive Module <ul> <li>Open DOORS using</li> <li>Production Server Data</li> <li>(Start-&gt;Programs-</li> <li>&gt;DOORS-&gt;DOORS</li> <li>Production)</li> </ul>	<ul> <li>Open the ORP Requirements project by double clicking on it.</li> <li>Log in as one of the following users:</li> <li>LMSI Test Admin</li> <li>LMSI Test Read</li> <li>LMSI Test Write</li> </ul>
Step	Num		57	58	59	09	61	62	63

							1					RP	P _f 6	25	<del>1 RI</del>	<del>EV. (</del>	)		Т					Ī			
Comments																											
Admin	User	ss Fail																						=			
V		l Pa	>					>	>				-	•			_	>		> 			<u>&gt;</u>		>		
/rite	Jser	s Fai																			-						
×		Pass	>					>	>				\ `	>				>		>			>		>		
User		Fail																									
Read		Pass	>					>	>					>				>		>			>		>		
Expected Result	4		DOORS: The module 'TPA has links attached Restoring this	module at a later date could cause	data corruption if the sources and	targets of each link are not	present. Continue anyway?	Module is archived to directory specified.	<b>DOORS: Restore Module Opens</b>				DOODS. Ello Soloctor mindom	DUUND. FILE DELECTOR WILLION	opens.			DOURS: Restore Module	window Opens	DOORS: Restore Module	window displays date of archive	and module name.	DOORS Restores archived	module.	DOORS Session will end.		
Instruction			Highlight the TPA module     Salact Module > Archive	Accent default nath of	"C:\Program	Files/DOORS/bin/TPA.zip"	Select Archive	Select OK	Restore Module	Ensure the TPA module is	highlighted.	<ul> <li>Select Module -&gt; Restore</li> </ul>	J 10 - 11 J - E - 10 7	Accept the default path of	"C:\Program Files\DOORS\hin"	<ul> <li>Click the Select button.</li> </ul>	9 · · ·	Choose "IPA.zip"	<ul> <li>Select Open</li> </ul>	Select Restore			Select Restore		Exit DOORS	Close the ORP	Requirements Test project
Step	Num		64					65	99				5	/0				80		69			70		71		

PART B – DoorsNet Guest User Access

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		RPP-6	<del>251-REV. 0</del>		T
Comments	All Testers entered Internet Explorer Version 5.01				
Fail					, 
Pass	>	>	>	>	>
Expected Result	Internet Explorer should open with the Hanford Intranct home page visible.	The DOORSNet access page will open displaying "Welcome to DOORSNet" near the top of the page.	DOORSNet Access Page for the user will be displayed. User name will be included in the title near the top of the page. Example: DOORSNet Access Page for Adria Johnson	DOORSNet page displaying available modules in the ORP Requirements Test project will be displayed. "Please select a view" will be displayed near the top of the page.	DOORSNet Access Page for the user will be displayed. User name will be included in the title near the top of the page.
Instruction	<ul> <li>Open Internet Explorer (Start - &gt;Programs-&gt;Internet Explorer)</li> <li>Enter version number in comment field of this test script (version is shown on title bar of Internet Explorer, e. g. "Hanford Intranet - Microsoft Internet Explorer 5.01 Hanford ESDS [990712]")</li> </ul>	Access the DOORSNet access page by entering the following URL in the Address field: http://apdoorswprd/doorsnet	Enter your name and email address in the appropriate fields and select OK. Example: Name: Adria Johnson Email address: adria J_johnson@rl.gov	<ul> <li>(Bookmark page?)</li> <li>Select the ORP Requirements Test project</li> <li>Enter User Name Guest</li> <li>Enter Password guest</li> <li>Select OK</li> </ul>	Select Close Project
Step Num		5	e l	4	Ś

Comments			
Fail			
Pass	>		
Expected Result	Internet Explorer will close without incident.		
Instruction	Close Internet Explorer		
Step Num	9	,  ,	

< Original working copies of test cases signed by testers >	
Tested by:	

Print and Sign Name

<April 11, 2000>

Date

RPP-6251 REV. 0

Test Ca	se Title: DOORS System Testing		
Introduct	tion		
DOORS s system tes xx ranges	ystem testing consists of set of system tests from the use sting consists of a set of test cases instead of just one tes from 01 to 06.	er point t case.	of view. Because of the different items needing testing, DOORS The system testing test cases are number in the 6.xx format where
Because o involve th	of the multiple test cases, the Requirements to be verified to each requirement.	d table l	as an extra column, DOORS 6 Test Cases, to show what test cases
The last so individual that the te any summ	ection, 6 System Testing test cases, consists of a table th l test cases. For each test case, table consists of the foll st case helps to verified are listed; whether the individua hary comments from the individual test case.	nat lists owing c al test c	each test case and is to be used as a summary list for the results of olumns: the test case number, the test case title; the requirements se passed; whether the individual test case failed; and a column for
This docu	ment is broken into the following sections: troduction		
• Rc • Te	equirements to be verified est cases		
• • 6	ssting set-up System Testing test cases		
Requiren	<u>nents to be verified</u>		
No.	Requirement Description	D00	ts 6 Test Cases
85	The electronic system must have the look and feel of a Windows application.	6.01 6.02	DOORS PC Client General System Test DOORSNet Client General System Test
86	The software must provide standard Windows editing features, such as highlight, cut, copy, paste, change, delete, and insert	6.01	DOORS PC Client General System Test
16	The software shall provide a maximum screen refresh time of 1/2 second for a standard Hanford	6.03 6.04	DOORS PC Manual Single User Performance Test DOORSNet Manual Single User Performance Test

8.6 Test Case Number: DOORS-6

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		workstation.				E	
	121	On-line help must be available.		6.01 6.02	DOORS PC Client General DOORSNet Client General	System 1 est System Test	
	122	Client software must be capable minimum workstation of Pentiu MB RAM and 6 GB hard disk for	of operating on a m 300 MHz, 64 or editing and a read-only	6.01 6.02	DOORS PC Client General DOORSNet Client General	System Test System Test	
	123	The tool must support up to 20 (	concurrent users.	6.05 6.06	DOORS PC Manual Multip DOORSNet Manual Multip	le Users Performance le Users Performance	Test Test
Fest	cases						
l'his PCpi	docur	ment groups together all the test c: and the DOORSNet product.	ases that are part of I	DOORS	System Testing. System test	ing includes both the I	DOORS
• •	DOOI 0	RS System Testing Test Cases are ORS 6.01 – DOORS PC Client ( ORS 6.02 – DOORSNet Client (	Jeneral System Test Jeneral System Test	E			
* * *		DORS 6.03 – DOORS PC Manual DORS 6.04 – DOORSNet Manual DORS 6.05 – DOORS PC Manual	Single User Perforn Single User Perforn Multiple Users Perf	nance 16 nance 76 ormance	est est e Test		
Test	DC DC	DORS 6.06 – DOUKSNet Manual et-up	Multiple Osers Ferr				
		isure Internet Explorer 4.0 or high isure DOORS PC is installed on v sers are required to be logged on t	ter is installed on wo vorkstations used to in the Hanford Local	rkstation access D Area Né	ns used to access DOORS thr OORS through DOORS PC etwork (HLAN)	ough DOORSNet	
6 S J	vstem	Testing test cases					
	est	Title	Require	ements'	To Be Verified	Pass Fail	Comments
<u>ں</u>	ase )1	DOORS PC Client General	85 The electron	ic syster	m must have the look and	>	
-	-						

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I

Comments																									
Fail																							>		
Pass									>						>			>			>				
Requirements To Be Verified		feel of a Windows application.	I ne software must provide standard windows editing features, such as highlight, cut, copy,	paste, change, delete, and insert	On-line help must be available.	Client software must be capable of operating on	a minimum workstation of Pentium 300 MHz,	64 MB KAM and 0 GB hard disk for editing	The electronic system must have the look and	feel of a Windows application.	On-line help must be available.	Client software must be capable of operating on	and a minimum Pentium 100 MHz for	read-only.	The software shall provide a maximum screen	refresh time of 1/2 second for a standard	Hanford workstation.	The software shall provide a maximum screen	refresh time of 1/2 second for a standard	Hanford workstation.	The tool must support up to 20 concurrent users.		The tool must support up to 20 concurrent users.		
		à	0x		121	122			85		121	122			91			16			123		123		
Title		System Test							DOORSNet Client General	System Test	•				<b>DOORS PC Manual Single</b>	User Performance Test		DOORSNet Manual Single	User Performance Test		DOORS PC Manual Multiple	Users Performance Test	DOORSNet Manual Multiple	Users Performance Test	
Test	Case								02						03			8			05		90		

Tested by: < Original working copies of test cases signed by testers >

<April 12, 2000> Date

**Print and Sign Name** 

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Test Case Number: DOORS-6.01 8.7

Test Case Title: DOORS PC Client General System Test

#### **Introduction**

The purpose of this test, DOORS PC Client General System Test, is to make sure that some of the general application requirements are met with DOORS PC, the Windows client version of the software.

This test verifies the listed requirements in the following manner:

- **<u>85</u>** Checks for some of the look and feel of a Windows application. <u>**86</u>** Checks some of the standard Windows editing features.</u>
  - 121 On-line help is brought up.
- 122 Editing of a cell from a row and column of a module is done on a workstation that is equal or less than the minimum requirement for editing on DOORS.

# **Requirements to be verified**

22 Client software must be capable of operating on a minimum workstation of Pentium 300 MHz, 64 MB RAM in for editing	21 On-line help must be available.	16 The software must provide standard Windows addition for a Windows application.	5 The electronic system must have the look and feel of a Wind and feel of a Wind and feel of a Wind a wind feel of a wind feel	to. Requirement Description
-----------------------------------------------------------------------------------------------------------------------	------------------------------------	-----------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------

### **Testing Set-up**

- User is required to be logged on to the Hanford Local Area Network (HLAN)
- Workstation needs to be less or equal to 300 MHz Pentium and less or equal to 64 MB of RAM
  - DOORS 4.1.4 SR2 (production) must be installed on testing workstation
    - The Car project exists on the DOORS database server
- Bill Young is an administrator on the Car project and does not need a password

	<b>i</b> I		T					·			· · · ·					-						-
Comments																						
Fail				<u>.                                    </u>					-													
Pass	>				>						>						-	>				
Expected Result	DOORS: Project Manager window will open displaving a list of available	projects.		I feel of a Windows application.	The standard windows pop-up menu	pops up with the standard menu items of	Restore, Move, Size, Minimize,	Maximize, and Close being displayed.	The menu item, Restore, is grayed out	as inactive.	Corresponding results are:	1. The DOORS: Project Manager	window maximizes to fill the	desktop free area.	The DOORS: Project Manager window	returns to the same location and size as	it was before the first double-click.	Corresponding results are:	1. The DOORS: Project Manager	window disappears from the	desktop free area.	The DOORS: Project Manager window
Instruction	Open DOORS using Production Server Data (Start->Programs->DOORS->DOORS	Production)	Requirement 85 Test Steps (2-5):	The electronic system must have the look and	Click on the DOORS icon on the left side of	the title bar of the DOORS: Project Manager	window.				Maximize DOORS: Project Manager window	and then return the window to normal size	using the window title area	1. Double-click on the window title area.	2. Double-click again on the window	title area.		Minimize DOORS: Project Manager window	and then return the window to normal size	using the minimize icon on the window title	bar.	1. Click on the minimize icon that is the
Step Num			<u> </u>		2						ŝ							4				

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## **Test Information**

	[ WC63606 (sm) ]	[ 200 Mhz (sm) ]	[ 32.0 Mb (sm) ]
	[ WC64389 (aj) ]	[ 200 Mhz (aj) ]	[ 64.0 Mb (aj) ]
Workstation Information	i e	<ul> <li>Pentium Speed:</li> </ul>	<ul> <li>RAM:</li> </ul>

#### Test Case

Step	Instruction	Expected Result	Pass	Fail	Comments
	<ul><li>first icon on the right side of the window title area.</li><li>2. Click on the DOORS: Project Manager button on the task bar.</li></ul>	returns to the same location and size as it was before it was minimized.			
S	Maximize DOORS: Project Manager window and then return the window to normal size using the maximize icon on the window title bar. 1. Click on the maximize icon that is the second icon on the right side of the window title are.	Corresponding results are: 1. The DOORS: Project Manager window maximizes to fill the desktop free area. The DOORS: Project Manager window returns to the same location and size as it was before the first click.	>		
	2. Click on the maximize icon again. <u>Requirement 121 Test Steps (6):</u> On-line heln must he available.				
9	<ul> <li>Bring up help</li> <li>1. From the menu bar click on Help, then</li> <li>Content</li> <li>2. Press the Cancel button on the Help</li> <li>Topics: DOORS Reference window</li> </ul>	Corresponding results are: 1. The Help Topics: DOORS Reference window is displayed. 2. The Help Topics: DOORS Reference window disappears	>		
	<u>Requirement 122 Test Steps (7-9, 12-14):</u> Client software must be capable of operating Pentium 300 MHz, 64 MB RAM and 6 GB ha	on a minimum workstation of rd disk for editing			
L	Open the Car project 1. Double-click on the Car project 2. Double-click on Bill Young	<ol> <li>Corresponding results are:         <ol> <li>DOORS: Project Login dialog window comes up.</li> <li>DOORS: Project Login dialog windows disappears and the DOORS: Project Manager window changes to the list of modules for the project and the window title to DOORS: Project Manager - Car</li> </ol> </li> </ol>	•		
8	Open the Car scenario module of the Car	Corresponding results are:	>		

_____

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	project 1 Double click on the Car scenario item	1. The DOORS Formal Module			
	in the module list in the DOORS:	window is displayed. The			
	Project Manager - Car window	module view name is Standard			
		view	-		
		Should take no more than 7 or 8 seconds			
		to bring up.			
6	Change to "Comment" view from "Standard	Corresponding results are:	>		
	view" view	1. The active area of the module			
	1. Click on the "Available views" drop	window changes to the			
	down list box on the tool bar and	"Comment" view of the Car			
	select the "Comment" item	scenario module.			
		Should take less than a 1/2 second to			
		switch views.			
	Requirement 86 Test Steps (10-11):				
	The software must provide standard Windov	vs editing features, such as highlight,			
	cut, copy, paste, change, delete, and insert.				
10	Test editing features in the edit mode for cell	Corresponding results are:	>		
	at the Comments column for Reqt No. OS2	1. The mouse cursor is over the			
	1. Go to the row with OS2 in the "Reqt	wanted cell			
	No." column	2. Cell enters into editing mode,			
	2. Double-click on the cell under the	text cursor at beginning of cell.			
	"Comments" Column for the row	3. The cell shows "Data Test Data			
	3. Type the following: Data Test Data	for Case 6.01"			
	for Case 6.01	4. The second "Data" is highlighted			-
	4. Highlight the second "Data" in the	5. The second "Data" disappears			
	Comments cell	and there are two spaces			
	5. Press the "Delete" key on the	between "Test" and "for"			,
	keyboard	6. One of the two spaces			
	6. Press the "Delete" key on the	disappears. Cell shows "Data			
	keyboard again	Test for Case 6.01"			
	7. Highlight "Test" and the space to the	7. "Test" and the space to the right			

Step	Instruction	Expected Result	Pass	Fail	Comments
Num					
	right of it in the Comments cell.	of it are highlighted.			
	8. Right-click the mouse to bring up the	8. Pop up menu for edit appears.			
	editing pop up menu	9. The pop up menu disappears			
	9. Select "Cut" menu item	along with the highlighted text.			
	10. Click on the beginning of the cell	Cell shows "Data for Case 6.01"			
	11. Right-click the mouse to bring up the	10. Text cursor is at the beginning of			
	editing pop up menu	the cell			
	12. Select "Paste" menu item	11. Pop up menu for edit appears.			
	13. At the beginning of the cell, highlight	12. The pop up menu disappears and			
	"Test" and the space to the right of it.	"Test" with the space to right of			
	14. Enter in the key stroke combination of	it appears at the beginning of the			
	Ctrl and C	cell. Cell shows "Test Data for			
	15. Click at the beginning of "Case"	Case 6.01"			
	16. Enter in the key stroke combination of	13. "Test" and the space to the right			
	Ctrl and V	of it are highlighted			
		14. Same characters are highlighted			
		15. Highlight on characters			
		disannear and text cursor is just			
		to the left of "Case"			
		16 "Test" with a space to the right			
		of it annears just in front of			
		"Cara" Call about 10010 "Cara			
		for Test Case 6.01"			
11	Make the text in the Comments column for	Corresponding results are:	>		
	Reqt No. OS2, the value	1. Text is now the value of the cell			
	1. Click on a different row.				
	Requirement 122 Test Steps (7-9, 12-14):				
	Client software must be capable of operating	on a minimum workstation of			
	Pentium 300 MHz, 64 MB RAM and 6 GB h	urd disk for editing			
12	Save the data.	Corresponding results are:	>		
	1. From the menu bar, select Module,	1. After no more than 7 or 8	,		
	then Save	seconds, the busy icon for the			

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		rass	Fail	Comments	
	inouse will relate to the standard				
e entered test data	Corresponding results are:	>			
Double-click on the cell with the test	1. Cell enters into editing mode,				
data	text cursor at beginning of cell				
Clear the data	2. No text in cell				
Click on a different row	3. Cell has no value				
e change.	Corresponding results are:	>			
From the menu bar, select Module,	1. After no more than 7 or 8				
hen Save	seconds, the busy icon for the				
	mouse will return to the standard				
	icon.				
JORS PC	Corresponding results are:	>			
Exit Car scenario module window	1. Car scenario module window				
Exit DOORS: Project Manager - Car	disappears				
project window	2. DOORS: Project Manager - Car				
	project windows disappears				

Tested by: < Original working copies of test cases signed by testers >

Print and Sign Name

<April 12, 2000>

Date

RPP-6251 REV. 0

Introduction	
The purpose of this test, DOORSNet Client General System Test, is to make sure that some of the general application requirements are with DOORSNet through the use of Internet Explorer 4.0.	its are met
<ul> <li>This test verifies the listed requirements in the following manner:</li> <li><u>85</u> - Since the test is done using Internet Explorer, if the test is successful, then this requirement will be met, because Internet Explorer is included with Windows and by definition has the look and feel of a Windows application.</li> <li><u>121</u> - On-line help within DOORSNet is brought up.</li> <li><u>122</u> - Going from the first page to the second page of a module is used to verify that ability to run on a 100 MHz Pentium workstation.</li> </ul>	met
<u>Requirements to be verified</u>	
No.Requirement Description85The electronic system must have the look and feel of a Windows application.121On-line help must be available.122Client software must be capable of operating on and a minimum Pentium 100 MHz for read-only.	
Testing Set-up	
• User is required to be logged on to the Hanfard I and the second secon	

Test Case Title: DOORSNet Client General System Test

8.8 Test Case Number: DOORS-6.02

### **Testing Se**

- e logged on to the Hanford Local Area Network (HLAN) Use
- Workstation needs to be less or equal to 100 MHz Pentium and less or equal to 64 MB of RAM
  - Internet Explorer 4.0 or greater must be installed on testing workstation
- The Car project exists on the DOORS database server and is published to DOORSNet.
  - Bill Young is an administrator on the Car project and does not need a password
    - 30 DOORS objects are displayed per DOORSNet web page

**Test Information** 

Workstation Information

3 (rs) ]	(rs) ]	(rs) ]
[ WC59663	[ 100 Mhz	[ 32.0 Mb
(us) (	(us)]	[ (ms)
[ WC63606	[ 200 Mhz	[ 32.0 Mb
9 (aj) ]	(aj) ]	(aj)]
[ WC6438	[ 200 Mhz	[ 64.0 Mb
Đ:	Pentium Speed:	RAM:
•	•	•

#### Test Case

		 -	-				
Comments	Version 5.01 (aj & sm) Version 4.01 SP2 (rs)						
Fail							
Pass	>		>		>		
Expected Result	Corresponding results are: 1. A normal size window of Internet Explorer is the top window on the desktop 2. Internet Explorer fills the free area of the desktop	Access page" bookmark for the gh 4, else go to step 5	Corresponding results are: 1. The DOORSNet access page	will open displaying "Welcome to DOORSNet" near the ton of the name	Corresponding results are:	1. DOORSNet Access Page for the user will be displayed.	User name will be included in the title near the top of the
Instruction	<ul> <li>Bring up Internet Explorer</li> <li>1. Double-click on the Internet Explorer</li> <li>1. Double-click on the Internet Explorer</li> <li>1. Maximize Internet Explorer</li> <li>2. Maximize Internet Explorer</li> <li>a Enter version number in comment</li> <li>field of this test script (version is shown on title bar of Internet</li> <li>Explorer, e. g. "Hanford Intranet - Microsoft Internet Explorer 5.01</li> <li>Hanford ESDS [990712]")</li> </ul>	If the tester does not have "DOORSNet Test DOORSNet Logon web page, do steps 2 thou	Access the DOORSNet access page 1. Enter the following URL in the	Address field of Internet Explorer: http://apdoorswprd/doorsnet	Enter in your name and email address	1. Enter your name and email address in the appropriate fields and select OK.	Example:
Step Num			7		Э		

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Step Num	Instruction	Expected Result	Pass	Fail	Comments
	Name: Adria Johnson Email address:	page.			
_	adria_l_johnson@rl.gov	Example:			
		Adria Johnson			
4	Bookmark page	Corresponding results are:	>		
	1. From the menu bar, click on	1. "Add Favorite" dialog window			
	"Favorites", then "Add to	comes up.			
	Favorites" menu item	2. Name field has "DOORSNet			
	2. Change "DOORSNet Access Page" to	Test Access Page" as its value.			
	Nome fald	3. Ille Auu ravollie ulalog			
	3. Press the OK button				
	Go to step 6				
	The tester has the "DOORSNet Test Access I	oage'' bookmark			
5	Select the "DOORSNet Test Access page"	Corresponding results are:	>		
	bookmark	1. DOORSNet Access Page for			
	1. From the menu bar, click on	the user will be displayed.			
	"Favorites", then "DOORSNet Test	User name will be included in			
	Access page" menu item	the title near the top of the			
		page.			
		Example:	- 11		
		DOORSNet Access Page for Adria Johnson			
	Requirement 121 Test Steps:				
	<b>On-line help must be available.</b>				
9	Bring up "Using DOORSNet" in a separate	Corresponding results are:	>		I
	web browser window	1. A pop up window is displayed			
	I. Click in the text portion of the "Help" builter on the left side of the ton of the	listing help options to choose.			
	ATT TA TAN ATT TO ATTE TIAT ATT ATT ATT TA TATT TA				

Step	Instruction	Expected Result	Pass	Fail	Comments
Num		4			
	web page. 2. Click in the text portion of the "Online Help" bullet of the pop up window	window is displayed titled "Using DOORSNet"			
7	Close the "Using DOORSNet" Internet Explorer window	The "Using DOORSNet" Internet Explorer window disappears.	>		
	Requirement 122 Test Steps:				
	Client software must be capable of operating 100 MHz for read-only.	on and a minimum Pentium			
8	Logon to the Car project	Corresponding results are:	>		
	1. Make sure that the Car project is	1. The radio button for the Car			
	selected from the list of projects	project is selected.			
	2. Enter in "Bill Young" in the username	2. Bill Young is the value in the			
	field	username field.			
	3. Click on the OK button	3. The web page is replaced with			
		the "DOORSNet View			
		selection" web page			
6	Select a module and view.	Corresponding results are:	>		
	1. Select the " Standard view" list item	1. The "Standard view" list			
	just under the "Car scenario" list item.	item just under the "Car			
	2. Make sure that the "Table format" web	scenario" list item is			
	page format is selected.	highlighted.			
	3. Make sure that the "Show pictures"	2. The radio button for "Table			
	check item is selected.	format" is selected.			
	4. Click on the OK button	3. The check box for "Show			
		pictures" is checked.			
		4. The web page is replaced with			
		the "DOORSNet: View			
		content" web page showing the			
		first page of the Table view"			
		for the "Standard view of the			
		"Car scenario" module.			
10	Go to the second page	Corresponding results are:	>		

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	1. Click on the single right white arrow	1. The first web page is replaced			
	on the right side of the dark web bar	by the second web page			
	that has the module and view name on				
	it.				
11	Close project	Corresponding results are:	>		
	1. Click on the text portion of the "Close	1. The second web page is			
	project" bullet that is near the center	replaced by the "DOORSNet:			
	and top of the dark DOORSNet web	Access page" web page.			
	bar.				
12	Exit web browser	Web browser disappears	>		

Tested by: < Original working copies of test cases signed by testers >

Print and Sign Name

Date

<April 12, and April 13, 2000>

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8.9 Test Case Number: DOORS-6.03

Test Case Title: DOORS PC Manual Single User Performance Test

#### **Introduction**

The purpose of this test, DOORS PC Manual Single User Performance Test, is to check baseline performance of the DOORS PC Windows For testing when the data is needed form the database, the loading times of 4 modules within the "ORP Requirements Test" project is used. client application against the DOORS Database. DOORS PC performance is affected by whether or not data needs to be access from the meeting requirement 91, "The software shall provide a maximum screen refresh time of 1/2 second for a standard Hanford workstation". DOORS database. This test case tests both the performance when data is not needed from the database and when it is needed from the database. For testing when the data is not needed from the database, switching views is used and determines whether DOORS PC is These modules were chosen for their differences in sizes. See table below.

	Fixnected I and inc	Time (Com 1.)		<= 10	<= 15	<= 15	<= 30	
	# of Chars		26.515	276.460	210,400	/ /8,481	1,792,624	
	# of Objects		152	1.026	1 764	6 745	0,/40	
Madula	aluboty	TDA	D	reimits	CHG Contract	SRIDs		
I est Sten		2	m		+ 1	0		

Information on modules used for this test case

numbers in the above table will need to be changed to reflect the size and complexity of the project when a refresh of data occurs for the The "ORP Requirements Test" project needs be refreshed from the production "ORP Requirements" project every once in a while. The

This test verifies the listed requirements in the following manner:

21 - Checks the performance for data access by the loading of a set of modules with their default views and then its refresh •

# Requirements to be verified

No. | Requirement Description
<u>[estin</u>	<u>g Set-up</u>				
• • • • •	User is required to be logged on to the Hanford I Workstation needs to be less or equal to 300 MH DOORS 4.1.4 SR2 (production) must be installed The "ORP Requirements Test" project exists on the "LMSI Test Read" is a user on the "ORP Require	ocal Area Network (HLAN) z Pentium and less or equal to 64 MB of R/ d on testing workstation the DOORS database server sments Test" project	MA		
est	nformation				
Vorks	<ul> <li>itation Information</li> <li>ID: [WC64389 (aj)]] [W</li> <li>Pentium Speed: [200 Mhz (aj)]] [20</li> <li>RAM: [64.0 Mb (aj)]] [32</li> </ul>	C63606 (sm) ] 0 Mhz (sm) ] .0 Mb (sm) ]			
Step	Instruction	Expected Result	Pass	Fail	Comments
	Test Case Setup		-		
1.1	Open DOORS using Production Server Data (Start->Programs->DOORS->DOORS Production)	DOORS: Project Manager window will open displaying a list of available projects.	>		
1.2	Open the "ORP Requirements Test" project 3. Double-click on the "ORP Requirements Test" project	Corresponding results are: 3. DOORS: Project Login dialog window comes up.	>		
	<ul> <li>4. CLICK ON LMDI LEST READ</li> <li>5. Enter the password and press the enter key. (Ask the test lead if you do not know the password)</li> </ul>	<ol> <li>The Password field becomes active.</li> <li>DOORS: Project Login dialog windows disappears and the DOORS: Project Manager</li> </ol>		- <u> </u>	
		window changes to the list of			

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Step Num	Instruction	Expected Result	Pass	Fail	Comments	<u> </u>
		modules for the project and the window title to "DOORS: Project Manager - ORP Requirements Test"				
						· · · ·
2	Test steps with the "TPA" module of the "OI	<b>RP Requirements Test" project</b>				
2.1	Open the "TPA" module and <u>record the</u> number of seconds it takes to open in the	Corresponding results are: 2. The "DOORS Formal Module	>		2 seconds (aj) 4 seconds (sm)	
	Comments column	'TPA' current 0.2" window is				
	2. Double-click on the "TPA" item in the	displayed. The module view				
	module list in the "DOORS: Project	name is "Review"				
	Manager - ORP Requirements Test"	Should take no more than 10 seconds to				
	window	bring up.				F
2.2	Change to "Standard view" view from "1-	Corresponding results are:	>			
	Technical" view and keep track if it takes	2. The active area of the module				
	more than 1/2 seconds to switch views.	window changes to the				
	2. Click on the "Available views" drop	"Standard view" view.				
	down list box on the tool bar and	Should take less than a 1/2 second to				
	select the "Standard view" item	switch views.				
2.3	Close the module	The DOORS Formal Module 'TPA'	>			
		current 0.2" window disappears				Т
						1
3	Test steps with the "Permits" module of the	<b>'ORP Requirements Test"</b> project				
3.1	Open the "Permits" module and record the	Corresponding results are:	>		6 seconds (aj)	
	number of seconds it takes to open in the	1. The "DOORS Formal Module			7 seconds (sm)	
	Comments column	'Permits' current 0.0" window is				
	1. Double-click on the "Permits" item in	displayed. The module view				
	the module list in the "DOORS:	name is "Review"				
	Project Manager - ORP Requirements	Should take no more than 15 seconds to				
	Test" window	bring up.				
3.2	Change to "Standard view" view from	Corresponding results are:	>			
	"Review-all" view and keep track if it takes	1. The active area of the module				
	more than 1/2 seconds to switch views.	window changes to the				

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	<ol> <li>Click on the "Available views" drop down list box on the tool bar and select the "Standard view" item</li> </ol>	"Standard view" view. Should take less than a 1/2 second to switch views.			
3.3	Close the module	The DOORS Formal Module 'Permits' current 0.0" window disappears	>		
4	Test steps with the "CHG Contract" module project	of the "ORP Requirements Test"			
4,1	Open the "CHG Contract" module and record	Corresponding results are:	>		7 seconds (aj)
	the number of seconds it takes to open in	1. The "DOORS Formal Module			7 seconds (sm)
	the Comments column	CHU Contract current 0.2"			
	item in the module list in the	module view name is "Review"			
	"DOORS: Project Manager - ORP	Should take no more than 15 seconds to			
	Requirements Test" window	bring up.	-		
4.2	Change to "Standard view" view from "1-	Corresponding results are:	>		
	Technical" view and keep track if it takes	1. The active area of the module			
	more than 1/2 seconds to switch views.	window changes to the			
	1. Click on the "Available views" drop	"Standard view" view.			
	down list box on the tool bar and	Should take less than a 1/2 second to			
	select the "Standard view" item	switch views.			
4.3	Close the module	The DOORS Formal Module 'CHG	>		
		Contract' current 0.2" window			
		disappears			
v	Test stens with the "SBIDs" module of the "t	)RP Ramirements Tast" nroiact			
5.1	Open the "SRIDs" module and record the	Corresponding results are:			18 seconds (ai)
	number of seconds it takes to open in the	1. The "DOORS Formal Module			23 seconds (sm)
	Comments column	'SRIDs' current 0.1" window is			
	1. Double-click on the "SRIDs" item in	displayed. The module view			
	the module list in the "DOORS:	name is "Review"			
	Project Manager - ORP Requirements	Should take no more than 30 seconds to			
	Test" window	bring up.			

Tested by: < Original working copies of test cases signed by testers >

Print and Sign Name

Date

<April 12, 2000>

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8.10 Test Case Number: DOORS-6.04

Test Case Title: DOORSNet Manual Single User Performance Test

## **Introduction**

DOORSNet from the DOORS database. This test case tests both the performance when data is not needed from the database and when it is loading of the module. For testing when the data is needed from the database, the test steps for first web page and second web page access The purpose of this test, DOORSNet Manual Single User Performance Test, is to check baseline performance of DOORSNet through the for 4 modules within the "ORP Requirements Test" project are used. These modules were chosen for their differences in sizes. See table web browser against the DOORS Database. The web browser performance is affected by whether or not data needs to be access through determines whether the web browser interface to DOORSNet is meeting requirement 91, "The software shall provide a maximum screen database when going to another view. This is different from DOORS PC, where the data is already on the workstation from the initial refresh time of 1/2 second for a standard Hanford workstation". Going to another view was not used because DOORSNet access the needed from the database. For testing when the data is not needed from the database, movement around the web page is used and

	age	(spugs)		600 MHz		cl = 0l	1.1	$10 \le 15$	11 ~ 15	CI = > II	11 /- 20	17 -> +1
	cond Web P	ct Time (Sec		ZHM UU2	11 - 15	CI = > II	11 - 16	CI => 11	12 /- 15		15 <= 20	07 - 07
	Se	Expe			18 /- 22	77 77	10 / - 22	77 77	20 <= 22		23 <= 25	
	ge	conas)	600 MH-	TITAT AAA	9 <= 15		l0 <= 15		$I0 \leq I5$		I4 <= 20	
	irst Web Pa		200 MH ₇		$10 \leq 15$		11 <= 15	11 , 12	CI => 11	14 - 20	14 <= 20	
	F		I UU MHZ	10	17 <= 27	10 . 22	10 < = 27	20 22	77-2 07	21 /- 25	C7 - V 17	
test case	# of Chars			76 515	CIC,02	37K A60	00+010	778 481	TOLIO	1 792 624		
SIULI IOL UIS	# of Obiects			157	104	1 026	2727	1.764		6.745		
	Module			TPA		Permits	0 0110	CHG Contract	CT CD	SKIUS		
	I est Step			7	,	s,		4	v	2		

Information on modules used for this

- Information on the data cells for first and second web pages seconds (NN <= NN Format)
- First NN, actual number of seconds for Module, Web Page Type (First, Second), and System (100, 200, 600 MHz)
  - Second NN, Number of seconds that the test step needs to pass. Used this value for passing or failing the test step

Information on systems used for the baseline test

100 MHz, 100 MHz Pentium with 32 MB of RAM running Windows 98

<ul> <li>200 MHz, 200 MHz Pentium with 128 MB of RAM running Windows NT 4.0 (Probably a 200 MHz Pentium system needs at leas 64 MB of RAM to get in this range of times)</li> <li>600 MHz, 600 MHz Pentium II with 128 MB of RAM running Windows 98</li> </ul>
The "ORP Requirements Test" project needs be refreshed from the production "ORP Requirements" project every once in a while. The numbers in the above table will need to be changed to reflect the size and complexity of the project when a refresh of data occurs for the "ORP Requirements Test" project.
<ul> <li>This test verifies the listed requirements in the following manner:</li> <li><u>91</u> - Checks the performance for data access by accessing the first and second web pages of a set of modules and then it tests the refresh capabilities by paging down within a web page.</li> </ul>
<u>Requirements to be verified</u>
No.       Requirement Description         91       The software shall provide a maximum screen refresh time of 1/2 second for a standard Hanford workstation.
Testing Set-up
<ul> <li>User is required to be logged on to the Hanford Local Area Network (HLAN)</li> <li>The speed and RAM of the workstation needs to be known so that the correct times can be looked up in the table</li> <li>Internet Explorer 4.0 or greater must be installed on testing workstation</li> <li>The "ORP Requirements Test" project exists on the DOORS database server</li> <li>"LMSI Test Read" is a user on the "ORP Requirements Test" project</li> <li>30 DOORS objects are displayed per DOORSNet web page</li> </ul>
Test Information
Workstation Information         Workstation Information           • ID:         [WC64389 (aj)]         [WC63606 (sm)]           • Pentium Speed:         [200 Mhz (aj)]         [200 Mhz (sm)]           • RAM:         [64.0 Mb (aj)]         [32.0 Mb (sm)]

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ass Fail Comments		All Testers entered Internet Explorer Version 5.01															-
Expected Result P		Corresponding results are: 3. A normal size window of Internet Explorer is the top window on the desktop 4. Internet Explorer fills the free	area of the desktop	Access page" bookmark for the	C'I date no no step I's	Corresponding results are: 2. The DOORSNet access many	will open displaying "Welcome to DOORSNet" near the ton of	the page.	Corresponding results are:	2. UUUNSING ACCESS Page for the user will be displayed. User	name will be included in the	utle near the top of the page.	Example:	DOORSNet Access Page for	Adria Johnson	Corresponding results are: 4. "Add Favorite" dialoo window	
Instruction	Test Case Setup	<ul> <li>Bring up Internet Explorer</li> <li>3. Double-click on the Internet Explorer</li> <li>Icon on the Windows desktop</li> <li>4. Maximize Internet Explorer</li> </ul>	• Enter version number in Comments column of this test script (version is shown on title bar of Internet Explorer, e. g. "Hanford Intranet - Microsoft Internet Explorer 5.01 Hanford ESDS [990712]")	If the tester does not have "DOORSNet Test, DOORSNet Logon web nage, do stens 1 2 tho	Access the DOOR SNet access name	2. Enter the following URL in the	Address field of Internet Explorer: http://apdoorswprd/doorsnet		Enter in your name and email address 2. Enter vour name and email address in	the appropriate fields and select OK.	Framula.	Name: Adria Johnson	Email address:	adria_l_johnson@rl.gov	Bookmoult man	4. From the menu bar, click on	
Step Num					1.2				L.I.						14		

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Step Num	Instruction	Expected Result	Pass	Fail	Comments
	Favorites" menu item	5. Name field has "DOORSNet			
	<ol> <li>Change "DOORSNet Access Page" to "DOORSNet Test Access Page" in</li> </ol>	Test Access Page" as its value. 6. The "Add Favorite" dialog			
	Name field.	window disappears.			
	6. Press the OK button				
	Go to step 1.6				
	The tester has the "DOORSNet Test Access I	age" bookmark			
1.5	Select the "DOORSNet Test Access page"	Corresponding results are:	>		
	bookmark	2. DOORSNet Access Page for the			
	2. From the menu bar, click on "Favorites" than "DOOD SNot Toot	user will be displayed. User			
	Arress Page" menu item	name will be included in the title			
		ireat ure top of the page.			
		Example:	·		
		DOORSNet Access Page for			
		Adria Johnson			
1.6	Logon to the "ORP Requirements Test"	Corresponding results are:	>		Microsoft Internet
	project	4. The radio button for the Car			Notify Window
	4. Make sure that the "ORP	project is selected.			displayed message
	Requirements Test" project is selected	5. LMSI Test Read is the value in			"The current user
	from the list of projects	the username field.			does not have a
	5. Enter in "LMSI Test Read" in the	6. Multiple * are in the password			preferences section in
	username field	field to hide the password			this project. Please
	6. Enter the password in the password	entered by the user.			ask your Review
	field. (Ask the test lead if you do not	7. The web page is replaced with			Manager to run the
	know the password)	the "DOORSNet View selection"			change proposal
	7. Click on the OK button	web page.			setup tool again."
1.7	Setup the "DOORSNet: View selection" web	Corresponding results are:	>		
	page for this test case.	5. The radio button for "Table			
	5. Make sure that the "Table format" web	format" is selected.		•	
	page format is selected.	6. The check box for "Show			
	6. Make sure that the "Show pictures"	pictures" is checked.			

Step	Instruction	Expected Result	Pass	Fail	Comments
	check item is selected.				
7	Test steps with the "TPA" module of the "OI	P Requirements Test" project			
2.1	Open the "TPA" module with the "Standard	Corresponding results are:	>		8 seconds (aj)
	view" view and record the number of	1. The "Standard view" list item			12 seconds (sm)
	seconds it takes to open in the Comments	just under the "TPA" list item is	•		
	column.	highlighted.			Microsoft Internet
	1. Select the "Standard view" list item	2. The web page is replaced with			Notify Window
	just under the "TPA" list item.	the "DOORSNet: View content"			displayed message
	2. Click on the OK button	web page showing the first page			"The current user
		of the Table format for the			does not have a
		"Standard view" view of the			preferences section in
		"TPA" module.			this project. Please
		Check the table in the introduction to			ask your Review
		determine if the test step is successful.			Manager to run the
		(M-TPA, P-1st Page, System Speed)			change proposal
					setup tool again."
2.2	Page down within the web page and keep	Corresponding results are:	>		
	track if it takes more than 1/2 seconds to	1. Web browser shows the next			
	page down.	part of the web page.			
	1. Press the Page Down key on the	Should take less than a 1/2 second to			
	keyboard.	page down.			
2.3	Go to the second page and record the	Corresponding results are:	>		12 seconds (aj)
	number of seconds it takes to go in the	2. The first web page is replaced by			11 seconds (sm)
	Comments column.	the second web page			
	2. Click on the single right white arrow	Check the table in the introduction to			Microsoft Internet
	on the right side of the dark web bar	determine if the test step is successful.			Notify Window
	that has the module and view name on	(M-TPA, P-2nd Page, System Speed)			displayed message
	it.				"The current user
					does not have a
					preferences section in
					this project. Please
					ask your Review

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Step Num	Instruction	Expected Result	Pass	Fail	Comments
					Manager to run the change proposal setur tool again "
2.4	Go to Views to select another module 1. Click on the text portion of the "Views" bullet that is at the top left corner of the dark DOORSNet web bar.	Corresponding results are: 2. The web page is replaced with the "DOORSNet View selection" web page.	>		Microsoft Internet Microsoft Internet Notify Window displayed message "The current user does not have a preferences section in this project. Please ask your Review Manager to run the change proposal setup tool again."
e	Test steps with the "Permits" module of the '	'ORP Requirements Test" project			
3.1	Open the "Permits" module with the	Corresponding results are:	>		10 seconds (ai)
	"Standard view" view and record the	3. The " Standard view" list item			17 seconds (sm)
	number of seconds it takes to open in the	just under the "Permits" list item			
	Comments column. 3 Calact the " Standard view." List :	is highlighted.			Microsoft Internet
	just under the "Permits" list item.	4. Inc web page is replaced with the "DOORSNet: View content"		<u>. , , , , , , , , , , , , , , , , , , ,</u>	Notify Window
	4. Click on the OK button	web page showing the first page			"The current user
		of the Table format for the			does not have a
		"Standard view" view of the		·	preferences section in
		"Permits" module.			this project. Please
		Check the table in the introduction to			ask your Review
		determine if the test step is successful.			Manager to run the
		(M-Permits, P-1st Page, System Speed)			change proposal
					setup tool again."
2.5	Fage down within the web page and keep	Corresponding results are:	>		
	LIACK IF IL LAKES INOLE UNAN 1/2 SECONDS TO	2. Web browser shows the next	-		
	page down.	part of the web page.			

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Comments		11 seconds (aj) 12 seconds (sm) Microsoft Internet Notify Window displayed message "The current user does not have a preferences section in this project. Please ask your Review Manager to run the change proposal setur tool again."	Microsoft Internet Notify Window displayed message "The current user does not have a preferences section in this project. Please ask your Review Manager to run the change proposal setup tool again."		12 seconds (aj) 13 seconds (sm)
Fail					
Pass		>	•		>
Expected Result	Should take less than a 1/2 second to page down.	Corresponding results are: 3. The first web page is replaced by the second web page Check the table in the introduction to determine if the test step is successful. (M-Permits, P-2nd Page, System Speed)	Corresponding results are: 3. The web page is replaced with the "DOORSNet View selection" web page.	of the "ORP Requirements Test"	Corresponding results are: 5. The "Standard view" list item just under the "CHG Contract"
Instruction	<ol><li>Press the Page Down key on the keyboard.</li></ol>	Go to the second page and <u>record the</u> number of seconds it takes to go in the Comments column. 3. Click on the single right white arrow on the right side of the dark web bar that has the module and view name on it.	Go to Views to select another module 2. Click on the text portion of the "Views" bullet that is at the top left corner of the dark DOORSNet web bar.	Test steps with the "CHG Contract" module project	Open the "CHG Contract" module with the "Standard view" view and <u>record the</u> number of seconds it takes to open in the
Step Num		3.3	3.4 4.	4	4.1

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	Comments column. 5. Select the "Standard view" list item just under the "CHG Contract" list	list item is highlighted. 6. The web page is replaced with the "DOORSNet: View content"			Microsoft Internet Notify Window displayed message
	item. 6. Click on the OK button	web page showing the first page of the Table format for the			"The current user does not have a
		"Standard view" view of the "CHG Contract" module.			preferences section in this project. Please
		Check the table in the introduction to			ask your Review
		determine if the test step is successful.			Manager to run the
		(M-CHO COILLACL, F-181 Fage, System Speed)			cnange proposal setup tool again."
4.2	Page down within the web page and keep	Corresponding results are:	>		
	track if it takes more than 1/2 seconds to	3. Web browser shows the next			_
	page down.	part of the web page.			
	3. Press the Page Down key on the	Should take less than a 1/2 second to			
	Kcybuaru.	page down.	ľ		
4.3	Go to the second page and record the	Corresponding results are:	>		11 seconds (aj)
	number of seconds it takes to go in the	4. The first web page is replaced by			11 seconds (sm)
	Comments column.	the second web page			
	4. Click on the single right white arrow	Check the table in the introduction to			Microsoft Internet
	on the right side of the dark web bar	determine if the test step is successful.			Notify Window
	that has the module and view name on	(M-CHG Contract, P-2nd Page, System			displayed message
	it.	Speed)			"The current user
					does not have a
					preferences section in
			·		this project. Please
					ask your Review
					Manager to run the
			_		change proposal
					setup tool again."
4.4	Go to Views to select another module	Corresponding results are:	>		
	3. Click on the text portion of the	4. The web page is replaced with			
	VIEWS DUILET LITAT IS AL LITE LOP IEIL	Ine DUUKSINEL VIEW SELECTION			1

Step Num	Instruction	Expected Result	Pass	Fail	Comments
	corner of the dark DOORSNet web bar.	web page.			
S	Test steps with the "SRIDs" module of the "	<b>ORP Requirements Test" project</b>			
5.1	Open the "SRIDs" module with the "Standard	Corresponding results are:	>		13 seconds (aj)
	view" view and record the number of	7. The "Standard view" list item			14 seconds (sm)
	seconds it takes to open in the Comments	just under the "SRIDs" list item			
	column.	is highlighted.			Microsoft Internet
	7. Select the "Standard view" list item	8. The web page is replaced with			Notify Window
	just under the "SRIDs" list item.	the "DOORSNet: View content"			displayed message
	8. Click on the OK button	web page showing the first page			"The current user
		of the Table format for the			does not have a
		"Standard view" view of the			preferences section in
		"SRIDs" module.			this project. Please
		Check the table in the introduction to			ask your Review
		determine if the test step is successful.			Manager to run the
		(M-SRIDs, P-1st Page, System Speed)			change proposal
					setup tool again."
5.2	Page down within the web page and keep	Corresponding results are:	>		
	track if it takes more than 1/2 seconds to	4. Web browser shows the next			
	page down.	part of the web page.			
	4. Press the Page Down key on the	Should take less than a 1/2 second to			
	keyboard.	page down.			
5.3	Go to the second page and record the	Corresponding results are:	>		13 seconds (aj)
	number of seconds it takes to go in the	5. The first web page is replaced by			14 seconds (sm)
	Comments column.	the second web page			
	5. Click on the single right white arrow	Check the table in the introduction to			Microsoft Internet
	on the right side of the dark web bar	determine if the test step is successful.			Notify Window
	that has the module and view name on	(M-SRIDs, P-2nd Page, System Speed)			displayed message
	If.				"The current user
					does not have a
					preferences section in
					this project. Please

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Step	Instruction					
Num		Expected Result	Pass	Fail	Comments	
					ask your Review Manager to run the	
5.4	Go to Views to select another module 4. Click on the text portion of the "Views" bullet that is at the top left corner of the dark DOORSNet web bar.	Corresponding results are: 5. The web page is replaced with the "DOORSNet View selection" web page.	>		setup tool again."	
9	Close project 1. Click on the text portion of the "Close project" bullet that is near the center and top of the dark DOORSNet web bar.	Corresponding results are: 1. The "DOORSNet View selection" web page is replaced by the "DOORSNet: Access	>			
2	Exit web browser	Web browser disappears				

Tested by: < Original working copies of test cases signed by testers >

Print and Sign Name

Date

<April 12, 2000>

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8.11 Test Case Number: DOORS-6.05

Test Case Title: DOORS PC Manual Multiple Users Performance Test

### **Introduction**

application caching all the data for a module when the module is opened. Each DOORS PC client opens a connection to the licensing server multiple DOORS PC Windows clients are accessing the database at the same time. The design of the DOORS PC client software has the The purpose of this test, DOORS PC Manual Multiple Users Performance Test, is to check performance of the DOORS database when and keeps it open until all the DOORS PC applications on the workstation closes.

Under the current configuration, up to 20 DOORS PC users are allowed to have connections to the licensing server at the same time. If 20 multiple DOORS PC users accessing the database, having two users accessing the database at the same time would be an appropriate test. DOORS PC users were connected, only two or three users would actually be accessing the database at the same time. Therefore to test

For this test case, 2 instances of the test case, DOORS-6.03: DOORS PC Manual Single User Performance Test, will be used in parallel.

The table below is from the DOORS-6.03 test case and should always be the same as what is in the DOORS-6.03 test case document.

	Expected Loading Time (Seconds)	<= 10	<= 15	<= 15	<= 30	
	# of Chars	26,515	376,468	778,481	1,792,624	
	# of Objects	152	1,026	1,764	6,745	
on modules used for this test case	Module	TPA	Permits	CHG Contract	SRIDs	
Information o	Test Step	2	e	4	5	

This test case will require 2 testers. Both testers will

- Each user and fill out a DOORS-6.03 test case document for their portion of this test case.
- Perform test step 1 from the DOORS-6.03 test case.
- Perform the following test steps from the DOORS-6.03 test case in parallel including the sub-steps within the test steps:

	Max Loading Time (Seconds)
a one and Gummanit taumind	2
	Tester
	Tester 1

	1.14 Otan	Treet Sten 7. "TPA" Module	Test Step 3: "Permits" Module	<= 25
4,5 Parallel T	est Step	Test Step 4: "CHG Contract" Module	Test Step 5: "SRIDs" Module	<= 45
Perfo	orm test step 6 from	the DOORS-6.03 test case.		
The Max Loa at least that f	ading Time column ast.	was calculated as the sum of the tv	wo individual test steps involved.	The system should be able to respond
The "ORP Re numbers in th "ORP Requir	equirements Test" [ he above table will   rements Test" proje	project needs be refreshed from the need to be changed to reflect the sict.	production "ORP Requirements"   ize and complexity of the project w	project every once in a while. The hen a refresh of data occurs for the
This test veri • <u>123</u> - users	ifies the listed requi - Since connecting ( s accessing the DOC	rements in the following manner: to the licensing server counts at a c DRS database at the same time and	concurrent user, this test case tests t l consider this test as an appropriate	the performance of two DOORS PC test for 20 concurrent users.
<u>Requiremen</u>	its to be verified			
No. Re- 123 Th	squirement Descrift e tool must support	otion up to 20 concurrent users.		
Testing Set-	ij			
• The t	two users are requir workstations needs	ted to be logged on to the Hanford to be less or equal to 300 MHz Pe	Local Area Network (HLAN) ntium and less or equal to 64 MB o	of RAM

- - The workstations needs to be reas of equal to bot installed on the testing workstations DOORS 4.1.4 SR2 (production) must be installed on the testing workstations The "ORP Requirements Test" project exists on the DOORS database server "LMSI Test Read" is a user on the "ORP Requirements Test" project •
    - - •

# **Test Information**

Workstation 1 Information

- [ PX18148 (aj) ] [ 650 Mhz (aj) ] [ 128 Mb (aj) ] [ Adria Johnson ] Pentium Speed: RAM: Tester: Ä

Workstation 2 Information

Ä •

•

- [ WC62022 (sm) ] 200 Mhz (sm)]
  - 64.0 Mb (sm) ]
  - Pentium Speed: RAM: Tester:

Steve McConnell ]

### **Test Case**

Step Num	Instruction	Expected Result	Pass	Fail	Comments
-	Both testers perform all of test step 1 from	Both testers ready for the parallel part of	>		
	DOORS-6.03 test case	this test case		1	
2	With both testers in synch with each other in	Both testers have load times in	>		Load Time 2: 4 sec.
	the test sub-steps of the DOORS-6.03 test	seconds from their respective			Load Time 3: 8 sec.
	case test steps.	modules.			Max: 8 sec.
	Tester 1 performs test step 2 from the	• If the Max time is <= 25			
	DOORS-6.03 test case	seconds, then this test step			
	Tester 2 performs test step 3 from the	passes.			
	DOORS-6.03 test case			1	
m	With both testers in synch with each other in	Both testers have load times in	>		Load Time 4: 8 sec.
	the test sub-steps of the DOORS-6.03 test	seconds from their respective			Load Time 5: 6 sec.
	case test steps.	modules.			Max: 8 sec.
	Tester 1 performs test step 4 from the	• If the Max time is <= 45			
	DOORS-6.03 test case	seconds, then this test step			
	Tester 2 performs test step 5 from the	passes.			
	DOORS-6.03 test case				

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Step Num	Instruction	Expected Result	Pass	Fail	Comments
4	Both testers perform test step 6 from DOORS-6.03 test case	Both testers have exit from DOORS PC	>		

Attach the DOORS-6.03 test case documents filled out and signed by the 2 testers.

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testers
ed by
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working co
iginal
-Or
Tested by:

Print and Sign Name

<April 12, 2000>

Date

8.12 Test Case Number: DOORS-6.06

Test Case Title: DOORSNet Manual Multiple Users Performance Test

### **Introduction**

multiple browsers are accessing the database through DOORSNet at the same time. The design of DOORSNet allows a web user to count The purpose of this test, DOORSNet Manual Multiple Users Performance Test, is to check performance of the DOORS database when as a concurrent user up to an hour after no activity against the DOORSNet server. A typical user will spend most of their time going from page to page looking for items of interest. Once found, the user may stay on the web DOORS PC Manual Multiple Users Performance Test. Since the DOORS-6.04 DOORSNet Manual Single User Performance Test accesses page for many minutes still counting as a concurrent user. Due to the web user going from web page to web page, it is felt that the number of users needed for the DOORSNet Manual Multiple Users Performance Test is higher than the 2 users needed for the DOORS-6.05 4 different modules the same way, using the individual modules from the DOORS-6.04 test case in a parallel test case would be representative of a 20 concurrent user load through DOORSNet.

For this test case, 4 instances of the test case, DOORS-6.04: DOORSNet Manual Single User Performance Test, will be used in parallel.

The table below is from the DOORS-6.04 test case and should always be the same as what is in the DOORS-6.04 test case document.

age	onds)	600 MHz	10 <= 15	10 <= 15	11 <= 15	14 <= 20	
cond Web Pa	ct Time (Sec	200 MHz	11 <= 15	11 <= 15	12 <= 15	15 <= 20	
Ser	Expe	100 MHz	18 <= 22	19 <= 22	20 <= 22	23 <= 25	
ee	onds)	600 MHz	9 <= 15	10 <= 15	10 <= 15	14 <= 20	
rst Web Pa	t Time (Sec	200 MHz	10 <= 15	11 <= 15	11 <= 15	14 <= 20	
Fi	Expec	100 MHz	19 <= 22	18 <= 22	20 <=22	21 <= 25	
# of	Chars		26,515	376,468	778,481	1,792,624	
# of	Objects		152	1,026	1,764	6,745	
Module			TPA	Permits	CHG Contract	SRIDs	
Test	Step		2	3	4	5	

Information on modules used for this test case

Information on the data cells for first and second web pages seconds (NN <= NN Format)

- First NN, actual number of seconds for Module, Web Page Type (First, Second), and System (100, 200, 600 MHz)
  - Second NN, Number of seconds that the test step needs to pass. Used this value for passing or failing the test step

Information on systems used for the baseline test

- 100 MHz, 100 MHz Pentium with 32 MB of RAM running Windows 98
- 200 MHz, 200 MHz Pentium with 128 MB of RAM running Windows NT 4.0 (Probably a 200 MHz Pentium system needs at least 64 MB of RAM to get in this range of times)
  - 600 MHz, 600 MHz Pentium II with 128 MB of RAM running Windows 98

This test case will require 4 testers. All testers will

- Each use and fill out a DOORS-6.04 test case document for their portion of this test case.
  - Perform test step 1 from the DOORS-6.04 test case.
- Perform the following test steps from the DOORS-6.04 test case in parallel including the sub-steps within the test steps:

			Exp	ect Time (Secon	ds)
Tester	Test Step	Sub-step	100 MHz	200 MHz	2HM009
	2 - "TPA" Module	.1 - 1st Page	22	15	15
		.3 - 2nd Page	22	15	15
2	3 - "Permits" Module	.1 - 1st Page	22	15	15
		.3 - 2nd Page	22	15	15
3	4 - "CHG Contract" Module	.1 - 1st Page	22	15	15
		.3 - 2nd Page	22	15	15
4	5 - "SRIDs" Module	.1 - 1st Page	25	20	20
		.3 - 2nd Page	25	20	20
	Max:	1st Page Max	91	65	65
		2nd Page Max	91	65	65

Perform test step 6 from the DOORS-6.04 test case.

The Max Loading Time column was calculated for the first and second web pages as the sum of the 4 individual test steps involved. The system should be able to respond at least that fast.

numbers in the above table will need to be changed to reflect the size and complexity of the project when a refresh of data occurs for the The "ORP Requirements Test" project needs be refreshed from the production "ORP Requirements" project every once in a while. The "ORP Requirements Test" project.

This test verifies the listed requirements in the following manner:

123 - Since connecting to the licensing server counts at a concurrent user, this test case tests the performance of 4 DOORSNet users accessing the DOORS database through a web browser at the same time and consider this test as an appropriate test for 20 concurrent users of DOORSNet.

# Requirements to be verified

squirement Description	he tool must support up to 20 concurrent users.	
No. F	123 T	

## **Testing Set-up**

- The 4 users are required to be logged on to the Hanford Local Area Network (HLAN)
- The speed and RAM of the workstations needs to be known so that the correct times can be looked up in the table. (They should be all 100 MHz with 32 MB of RAM or all 200 MHz and above with at least 64 MB of RAM)
  - Internet Explorer 4.0 or greater must be installed on testing workstations
- The "ORP Requirements Test" project exists on the DOORS database server
  - "LMSI Test Read" is a user on the "ORP Requirements Test" project
    - 30 DOORS objects are displayed per DOORSNet web page

# **Test Information**

Workstation Information

[ WC64389 (aj) ]	[ 200 Mhz (aj) ]	[ 64.0 Mb (aj) ]	[ Adria Johnson ]	
Ä.	<ul> <li>Pentium Speed:</li> </ul>	<ul> <li>RAM:</li> </ul>	• Tester:	

Workstation 2 Information

ID: [WC63606 (sm)]
 Pentium Speed: [ 200 Mhz (sm) ]

[ 32.0 Mb (sm) ] [ Steve McConnell ] RAM: Tester: •

Workstation 3 Information

•	Ä	[ PX18148 (jc) ]
٠	Pentium Speed:	[ 650 Mhz (jc) ]
٠	RAM:	[ 128 Mb (jc) ]

- RAM: •
- [ Joyce Caldwell ] Tester:

•

Workstation 4 Information

- WC62022 (rs) ] [ 200 Mhz (rs) ] Pentium Speed: RAM: Ä
- [64.0 Mb (rs)]
- [Rick Strickland] Tester:

•

### Test Case

Comments		Test ATester 1 Time: 22 sec.Tester 2 Time: 32 sec.Tester 3 Time: 12 sec.Tester 4 Time: errorMax: 32 sec.Tester 1 Time: errorTester 1 Time: errorTester 3 Time: 13 sec.Tester 4 Time: 13 sec.
Fail		>
Pass	>	
Expected Result	All testers ready for the parallel part of this test case	<ul> <li>All testers have load times for the first web page in seconds from their respective modules.</li> <li>If the Max time is &lt;= to the Max seconds in the table for speed and RAM for the first web page, then this test step passes.</li> </ul>
Instruction	All testers perform all of test step 1 from DOORS-6 04 test case	<ul> <li>With all testers in synch with each other, the testers will perform the .1 sub-step, which opens each module to the first web page</li> <li>Tester 1 performs test step 2.1 from the DOORS-6.04 test case</li> <li>Tester 2 performs test step 3.1 from the DOORS-6.04 test case</li> <li>Tester 3 performs test step 4.1 from the DOORS-6.04 test case</li> <li>Tester 3 performs test step 5.1 from the DOORS-6.04 test case</li> <li>Tester 4 performs test step 5.1 from the DOORS-6.04 test case</li> </ul>
Step Num		2

			Max: 27 sec.
			Error = "DOORSNet
		_	following error. Could
		 	not connect to the
			DOORSNet Server.
		 _	The server may not be
		 	running, or it may be
		 	servicing other requests
		 	which case you should
		 	try again in a short
			while."
n all testers in synch with each other, the	<ul> <li>All testers have times for the</li> </ul>	>	Test C
rs will perform the .3 sub-step, which has	second web page in seconds		Tester 1 Time: 35 sec.
module going to the second web page	from their respective modules.	 	Tester 2 Time: error
<ul> <li>Tester 1 performs test step 2.3 from</li> </ul>	• If the Max time is <= to the		Tester 3 Time: 11 sec.
the DOORS-6.04 test case	Max seconds in the table for		Tester 4 Time: 25 sec.
Tester 2 performs test step 3.3 from	speed and RAM for the second	 	Max: 35 sec.
the DOORS-6.04 test case	web page, then this test step		
<ul> <li>Tester 3 performs test step 4.3 from</li> </ul>	passes.	 	Test D
the DOORS-6.04 test case			Tester 1 Time: error
• Tester 4 performs test step 5.3 from			Tester 2 Time: 38 sec.
the DOORS-6.04 test case			Tester 3 Time: 11 sec.
			Tester 4 Time: 25 sec.
			Max: 38 sec.
			Error = "DOORSNet
			has reported the
		 	following error. Could
			not connect to the
			DOORSNet Server.

------

Step Num	Instruction	Expected Result	Pass	Fail	Comments
					The server may not be running, or it may be servicing other requests at the moment, in which case you should try again in a short while."
4	All testers perform test step 6 from DOORS- 6.04 test case	All testers have exit from their web browsers	>		

- ---

Attach the DOORS-6.04 test case documents filled out and signed by the corresponding tester.

< Original working copy test cases signed by testers > Tested by:

Print and Sign Name

<April 12, 2000>

Date

RPP-6251 REV. 0

#### **Addendum 1 – Copyright Notice**

The following products are mentioned in this test plan:

- DOORS is a trademark of QSS, Limited, Mt. Arlington, New Jersey
- DOORSNet is the trademark of QSS, Limited, Mt. Arlington, New Jersey
- Excel is a trademark of Microsoft Corporation, Redmond, Washington.
- Internet Explorer is a trademark of Microsoft Corporation, Redmond, Washington.
- Outlook is a trademark of Microsoft Corporation, Redmond, Washington.
- Windows is a trademark of Microsoft Corporation, Redmond, Washington.
- Word is a trademark of Microsoft Corporation, Redmond, Washington.