International Institute of Business Analysis

IIBA® Vendor Showcase

TopTeam Analyst

blueprint
The Requirements Company

Non-Functional Requirements Analysis

December 12, 2013

Vision and Mission

Vision	The world's leading association for Business Analysis professionals
Mission	Develop and maintain standards for the practice of business analysis and for the certification of its practitioners

IIBA® is an international not-for-profit professional association for business analysts.

© International Institute of Business Analysis

Tom Karasmanis

IIBA Product Manager

- Tom Karasmanis is a Senior Consultant with 25 years' experience in Information Technology, including roles as a Business Architect, Business/Systems Analyst, Project Leader, Technical Architect, and Software Engineer. He has worked in financial services, publishing, healthcare, public sector and telecommunications.
- Tom served as Chief Architect of the IIBA from 2009 to 2011. He is currently IIBA Product Manager of *Being a BA: Technical Excellence* and *Vendor Showcase*. Tom is a management consultant in business architecture and business analysis, assisting organizations to build or improve their BA practices. He speaks regularly at international conferences.
- Tom holds a Bachelor of Applied Science in Chemical Engineering from the University of Toronto and is active in the business analysis and business architecture communities.

© International Institute of Business Analysis

Outline

- Introductions and Housekeeping 12:00
- Vendor Presentations 12:05
  - **TopTeam Analyst** 12:05
  - **Blueprint** 12:25
- Questions and Answers 12:42
- Close 12:59

© International Institute of Business Analysis

Question and Answer

How to Ask Questions

- Use the Question box to ask questions. Selected questions will be answered at the end, but you can ask at any time.
- Include the vendor's name if you want a specific vendor to respond.
- Short, specific questions, please!

IIBA Host

Tom Karasmanis

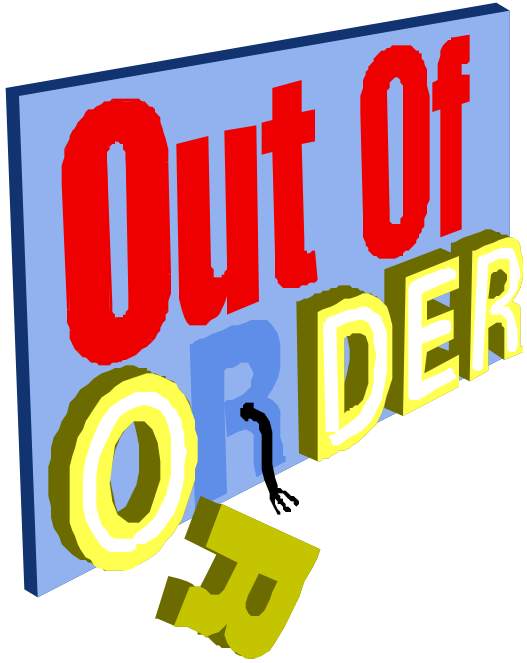
TopTeam Analyst

Ashu Potnis

blueprint
The Requirements Company

Tony Higgins

© International Institute of Business Analysis



So … it's not working?

(From BABOK® Guide v2.0, section 9.17)

NON-FUNCTIONAL REQUIREMENTS ANALYSIS

© International Institute of Business Analysis

What Are Non-Functional Requirements?

Requirements structure

–(From BABOK® Guide v2.0)

- Business Requirements
- Stakeholder Requirements
- Solution Requirements
  - Functional Requirements
  - *Non-functional Requirements* ***
- Transition Requirements

© International Institute of Business Analysis

What Are Non-Functional Requirements?

- Capture conditions that do not directly relate to the behavior or functionality of the solution
- Instead, they describe environmental conditions under which the solution must remain effective or qualities that the systems must have
- Quality or supplementary requirements

© International Institute of Business Analysis

What Are Non-Functional Requirements?

- Can include requirements related to:
- Capacity
- Speed (Response time, Throughput)
- Security
- Availability
- Scalability
- ... and more

© International Institute of Business Analysis

What Is Requirements Analysis?

- Describes how business analysts prioritize and progressively elaborate stakeholder and ***solution requirements*** in order to enable the project team to implement a solution that will meet the needs of the sponsoring organization and stakeholders
  - Includes non-functional requirements

© International Institute of Business Analysis

What Is Requirements Analysis?

- Involves analyzing stakeholder needs to define solutions that meet those needs, assessing the current state of the business to identify and recommend improvements, and the verification and validation of the resulting ***requirements***
  - Includes non-functional requirements

© International Institute of Business Analysis

What Is Non-functional Requirements Analysis?

–BABOK® Guide v2.0, section 9.17

- The purpose of non-functional requirements is to describe the required qualities of a system, such as its usability and performance characteristics. These supplement the documentation of functional requirements, which describe the behavior of the system.

© International Institute of Business Analysis

What Is Non-functional Requirements Analysis?

–BABOK® Guide v2.0, section 9.17

- Categories *(ISO 9126)*
  - Reliability
  - Performance Efficiency
  - Operability
  - Security
  - Compatibility
  - Maintainability
  - Transferability

© International Institute of Business Analysis

What Is Non-functional Requirements Analysis?

–BABOK® Guide v2.0, section 9.17

- Measurement
  - Include one or more measures of success
  - How do we know we met the requirement
  - Requires to adequately test requirement
- Documentation
  - The system shall ...
- SMART

© International Institute of Business Analysis

Importance – Why Bother?

- Essentially describe the target quality of the system, so ...
  - Missing non-functional requirements (missing quality) impacts every functional requirement
  - Could affect adoption
  - Could be compliance issues
  - Careful! Too much could impact time and cost
- Often require technical expertise
  - Could be done by System Analysts

© International Institute of Business Analysis

Question and Answer

How to Ask Questions

- Use the Question box to ask questions. Selected questions will be answered at the end, but you can ask at any time.
- Include the vendor's name if you want a specific vendor to respond.
- Short, specific questions, please!

IIBA Host

Tom Karasmanis

TopTeam Analyst

Ashu Potnis

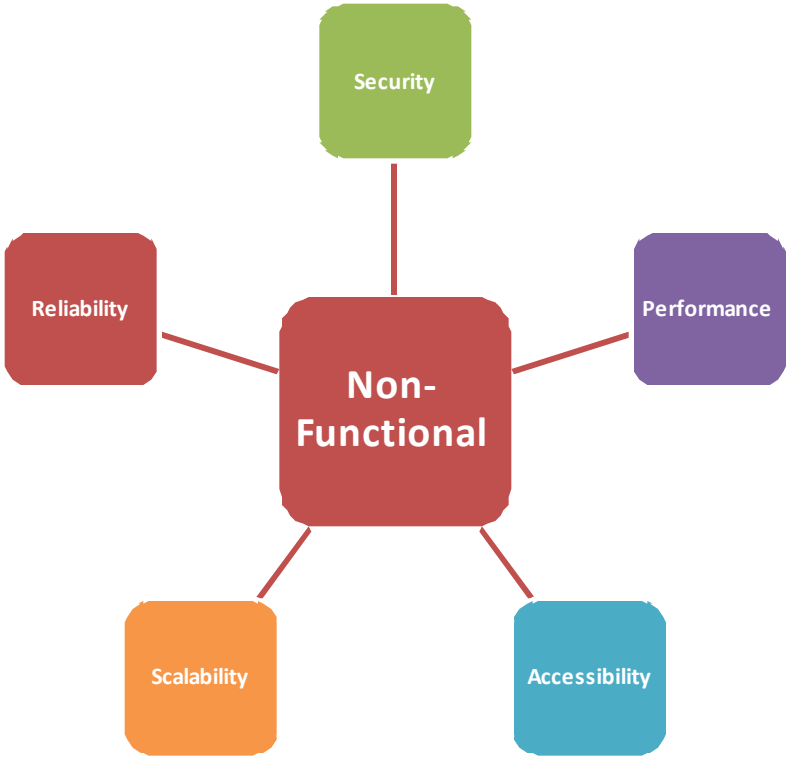
blueprint
The Requirements Company

Tony Higgins

© International Institute of Business Analysis

TopTeam Analyst™

Non-Functional Requirements



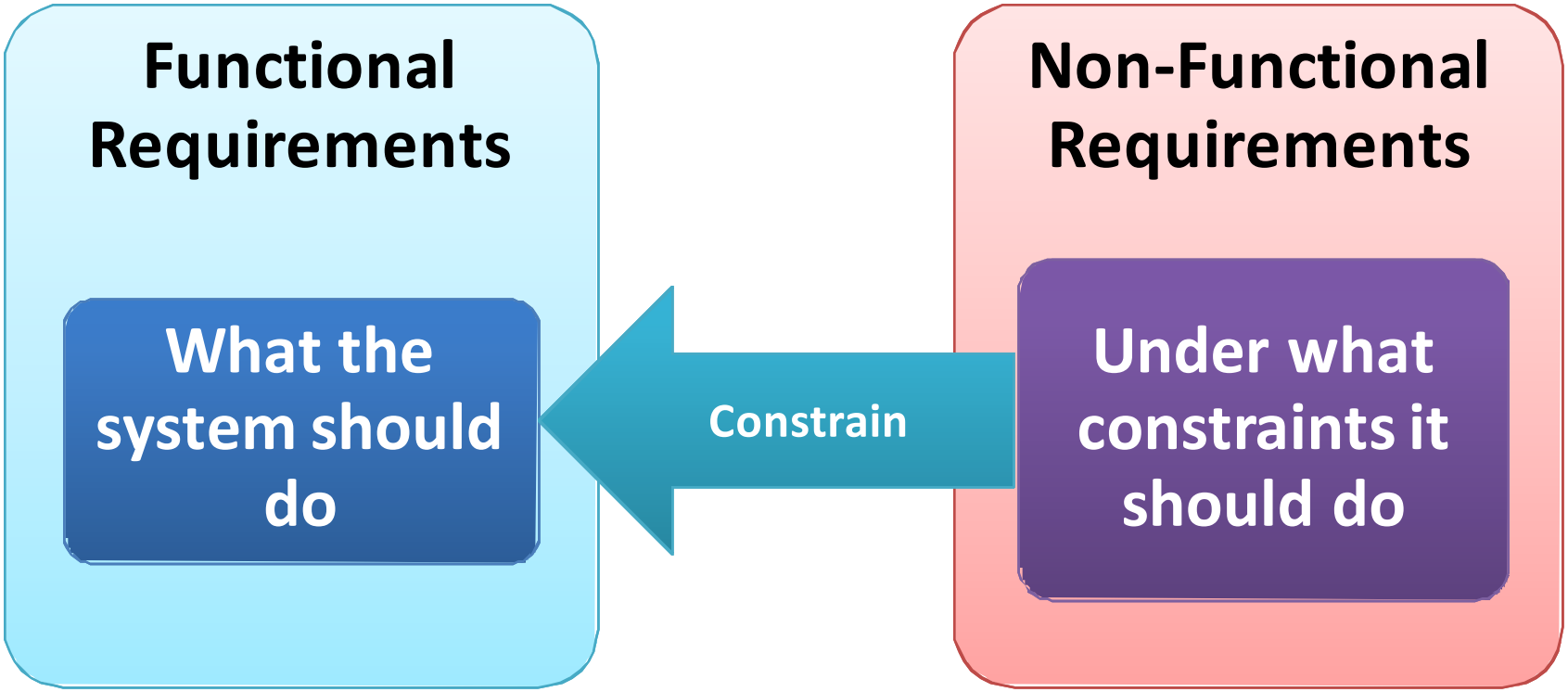
Techno Solutions

Requirements

Functional	Non-Functional	Business Rules

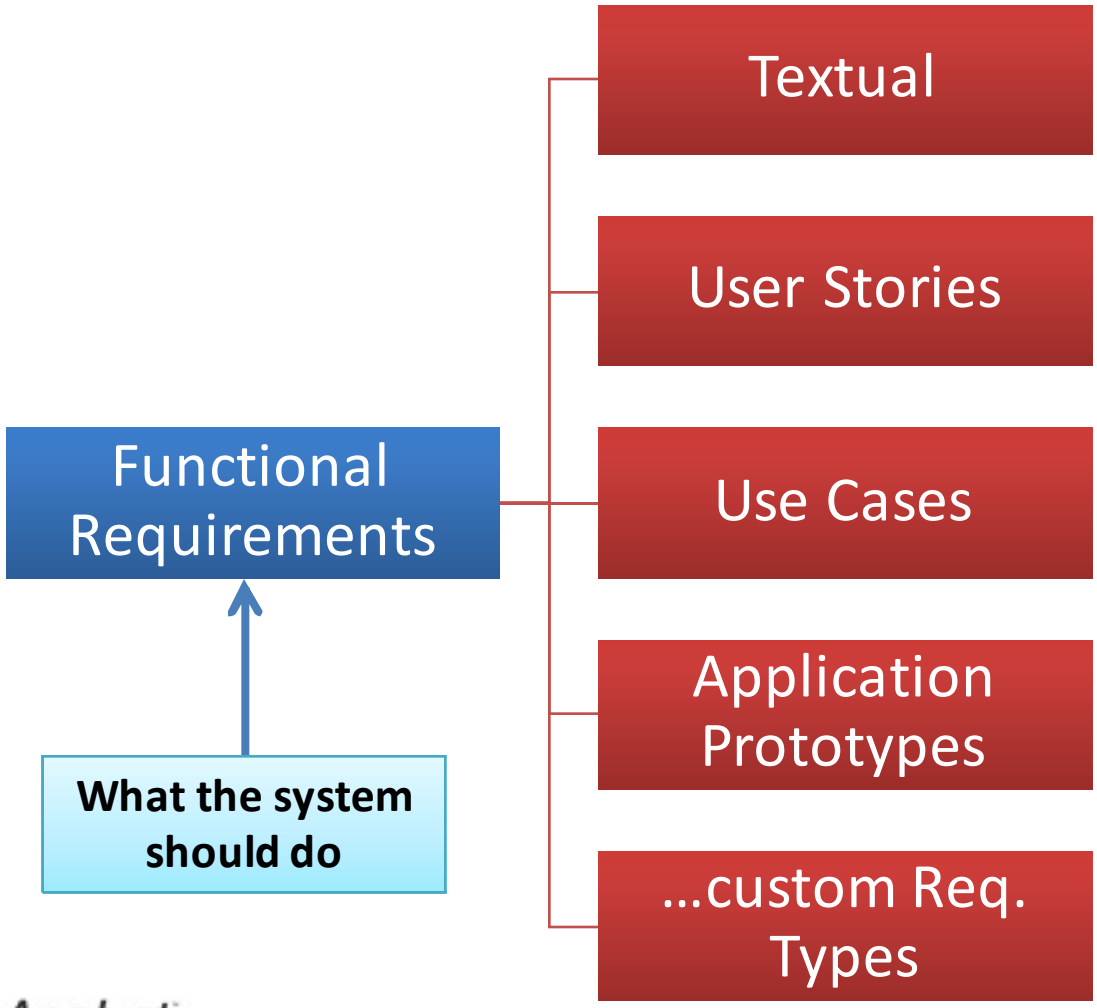
TopTeam Analyst

Functional + Non-Functional
=
Complete Requirements



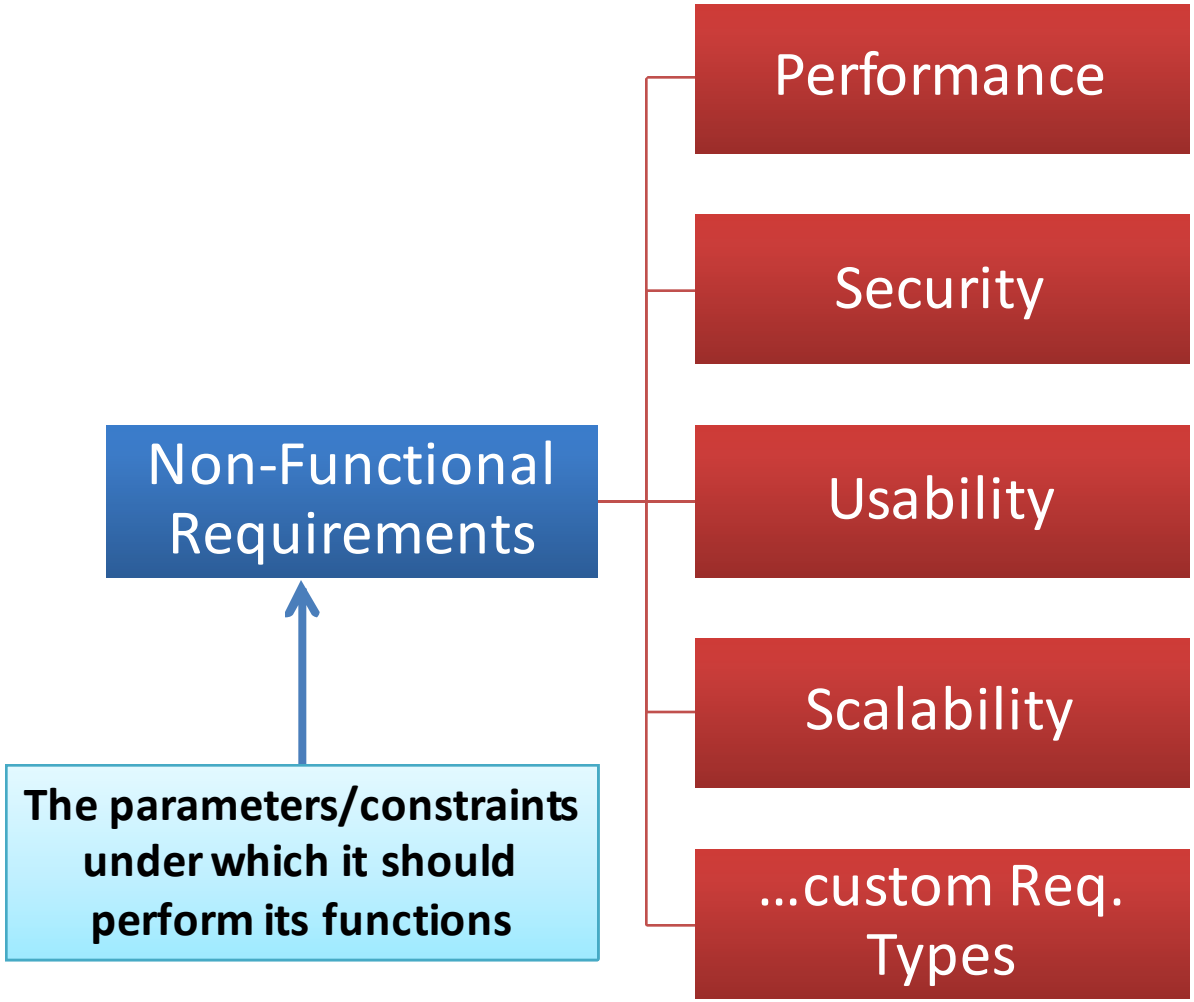
TopTeam Analyst

TopTeam Analyst
Functional Requirements Artifacts



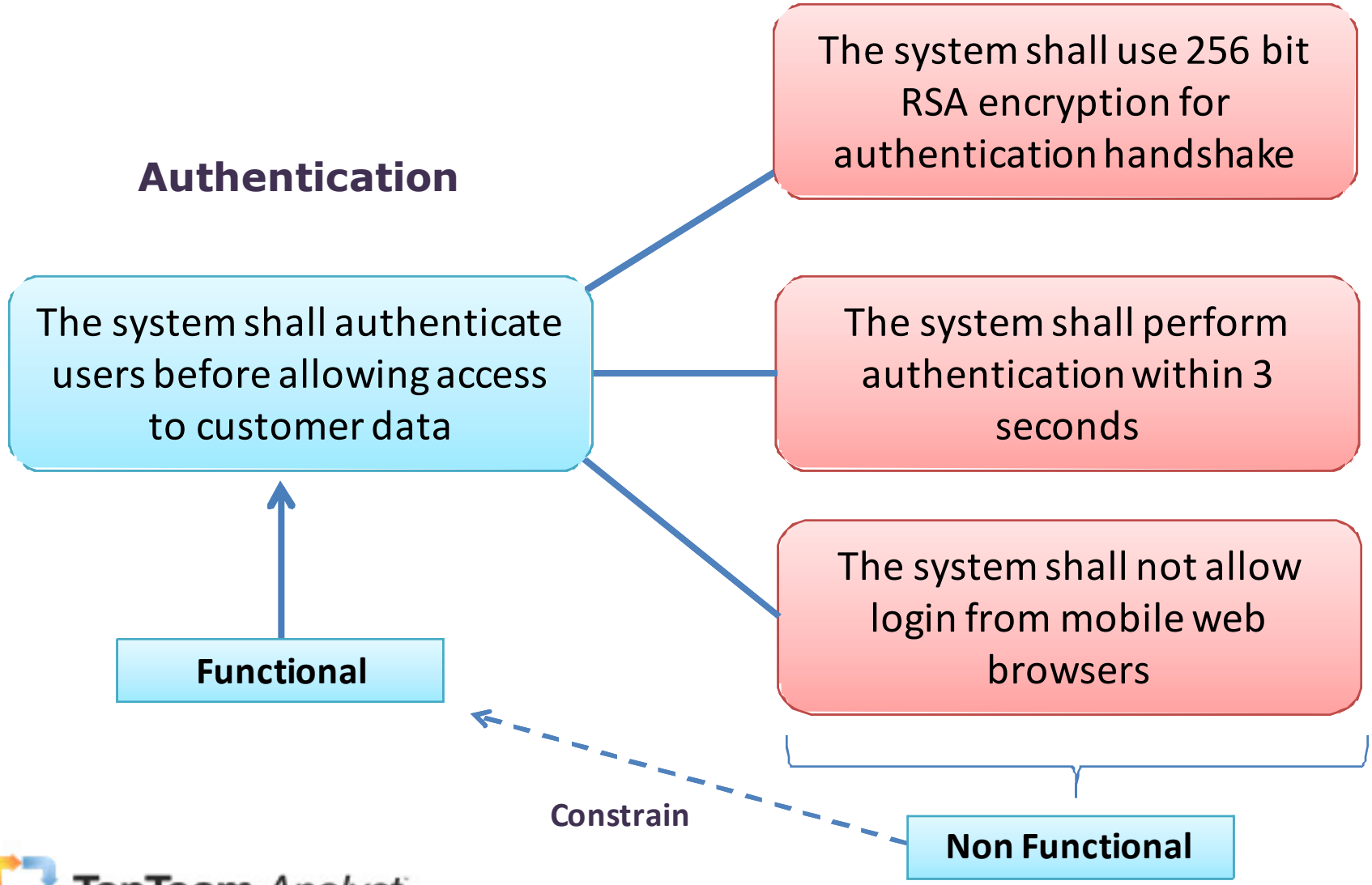
TopTeam Analyst

TopTeam Analyst
Non-Functional Requirements Artifacts



TopTeam Analyst

Requirements for a Business Application



TopTeam Analyst

Authoring Requirements in TopTeam Analyst with Word processor-like Editor

Requirements Document View [RDOC-2321] Business Requirements Doc (Strict Mode)

Open | New | Delete | Refresh | Filter | Map | More | Split Window | Export... | Print

1. **Business Requirements [BREQ-2322]**

   1.1. The system shall authenticate users before allowing access to customer data [BREQ-602]

2. **Security Requirements [SRREQ-2324]**

   2.1. The system shall use 256 bit RSA encryption for authentication handshake [SRREQ-604]

   2.2. The system shall not allow login from mobile web browsers [SRREQ-605]

3. **Performance Requirements [PREQ-2323]**

   3.1. The system shall perform authentication within 3 seconds [PREQ-603]

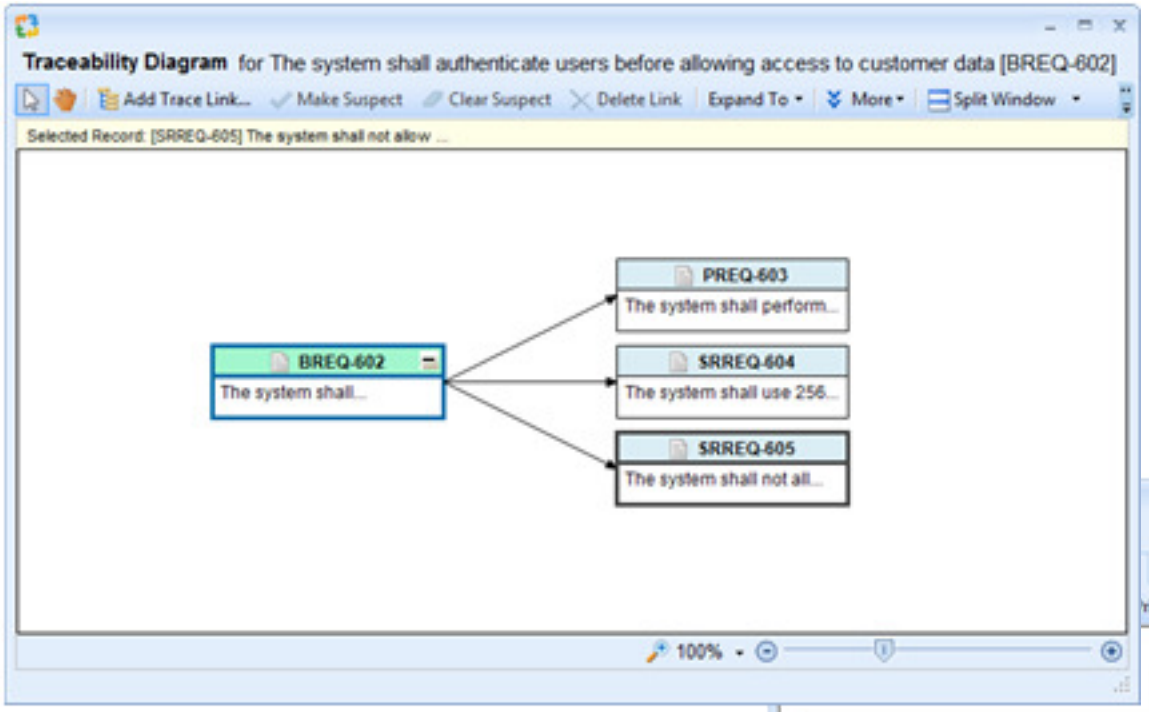
Actions: Requirements Document View - Click to Exp

Non Functional

Unique Requirements Identifiers and Trace Indicators

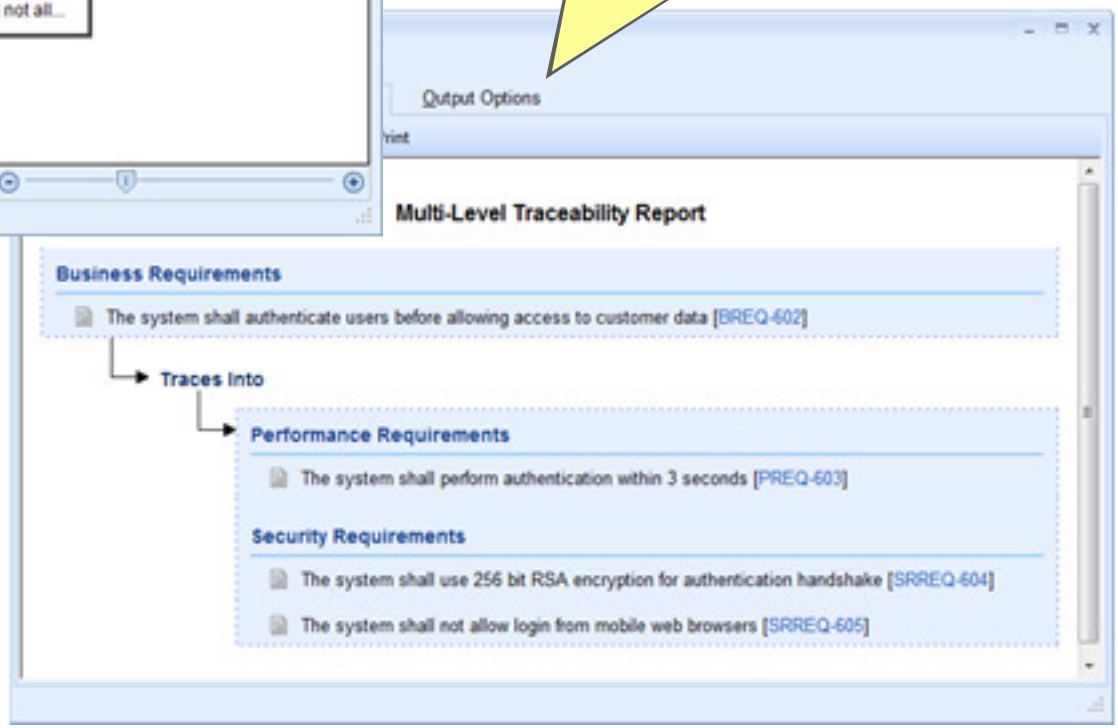
TopTeam *Analyst*

Trace links between Functional and Non-Functional Requirements



Graphical Trace Editor

Trace Report



TopTeam Analyst

Non-Functional Requirements can be linked with (traced to) Use Case Scenarios

Main | Flows | Flow Diagram | Properties | Comments | Attachments | Traceability | Items

Switch | Step | Alternate Flow | Actor | Link | Arrange | More | Tools

Main Flow-of-Events

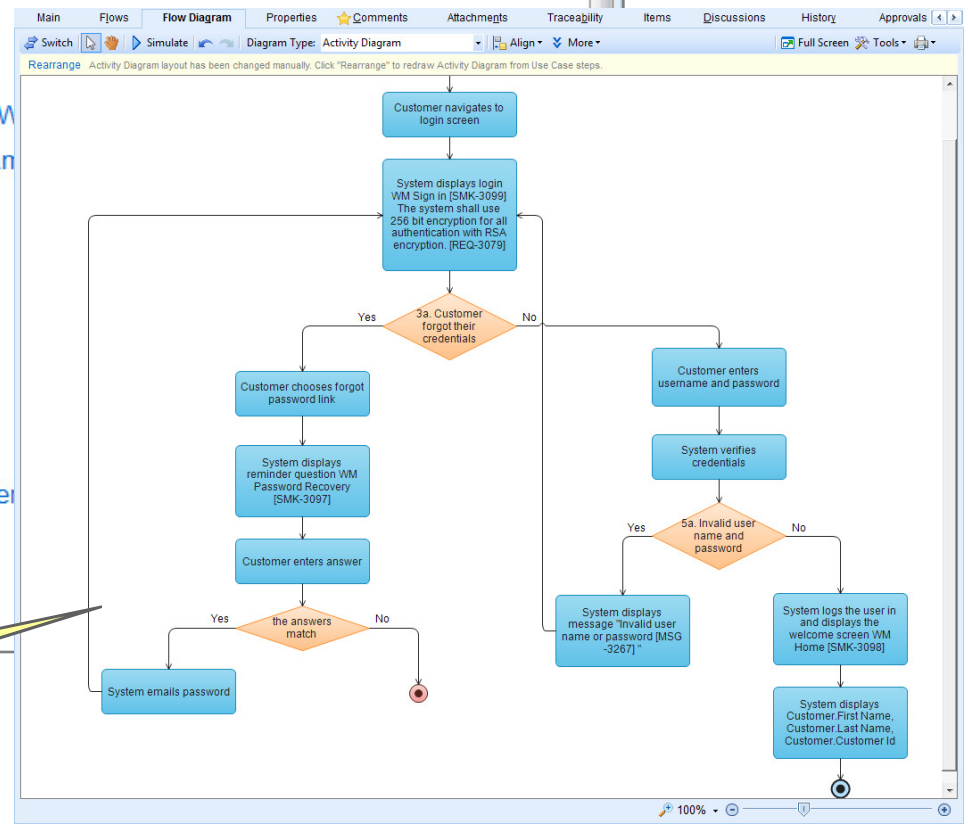
1. **Customer** navigates to login screen
2. **System** displays login WM Sign in [SMK-3099] The system shall use 256 bit encryption for all authentication with RSA encryption. [REQ-3079]
3. **Customer** enters username and password
4. **System** verifies credentials
5. **System** logs the user in and displays the welcome screen W
6. **System** displays Customer.First Name, Customer.Last Nan
7. **Use Case ends with Success.**

Alternate Flows

3a. Customer forgot their credentials

1. **Customer** chooses forgot password link
2. **System** displays reminder question WM Password Recover
3. **Customer** enters answer
4. **If (** the answers match **) then**
   4.1. **System** emails password

Linked / Traced Non-Functional Requirements



Activity Diagram is automatically generated from text

Requirements for a Device/System

Noise Cancelling Headphone

The device battery shall last 12 hours of continuous use

The device shall reduce background noise by 24 decibels

The device shall be powered by ordinarily available AAA batteries

The device shall weigh less than 10 oz/284 grams

Functional

Constrain

Non Functional

TopTeam *Analyst*

Microsoft Word-like Full-Rich-Text editor for Requirements

Embed images, tables, bullets, etc.

Embed Excel Spreadsheet / Visio Diagrams etc. (OLE Embedding)

Requirements Document View [RDOC-445] Product Requirements Document (PRD) (Strict Mode)

Open | New | Delete | Refresh | Filter | Map | More | Split Window | Export... | Print | Tools | Close

Filter: << All Records >> | Refresh

1. Product Requirements [PRDREQ-606]

1.1. The device battery shall last 12 hours of continuous use

Shrink | Arial | 9 | Link | Object | More | Tools

Peukert Formula - Battery Run Time to Depletion

Peukert's Exponent	1.192
Batt Bank Capacity Ah	600
Amp Hour Time Rating	20

Discharge Rate in Amps	Time in hours	Total Amp Hours Available
24.0	26.09	626.3
36.0	16.09	579.4
48.0	11.42	548.2
60.0	8.75	525.2
120.0	3.83	459.8

Depth of Discharge	Ah used
15%	90 Ah
20%	120 Ah
50%	300 Ah
80%	480 Ah

Actions: Requirements Document View - Click to Expand

TopTeam Analyst

Requirements Versioning, Baselines and “diff” comparison

View Precise differences between versions

Field	Comparison of version 1.03 with 1.05
Title	The device battery shall last ~~12~~ 14 hours of continuous use
Id	[PRDREQ-607]
Upd by	Steve Project Mgr
Description	AAA Battery

Peukert Formula - Battery Run Time to Depletion

Peukert's Exponent	1.192
Batt Bank Capacity Ah	600
Amp Hour Time Rating	20

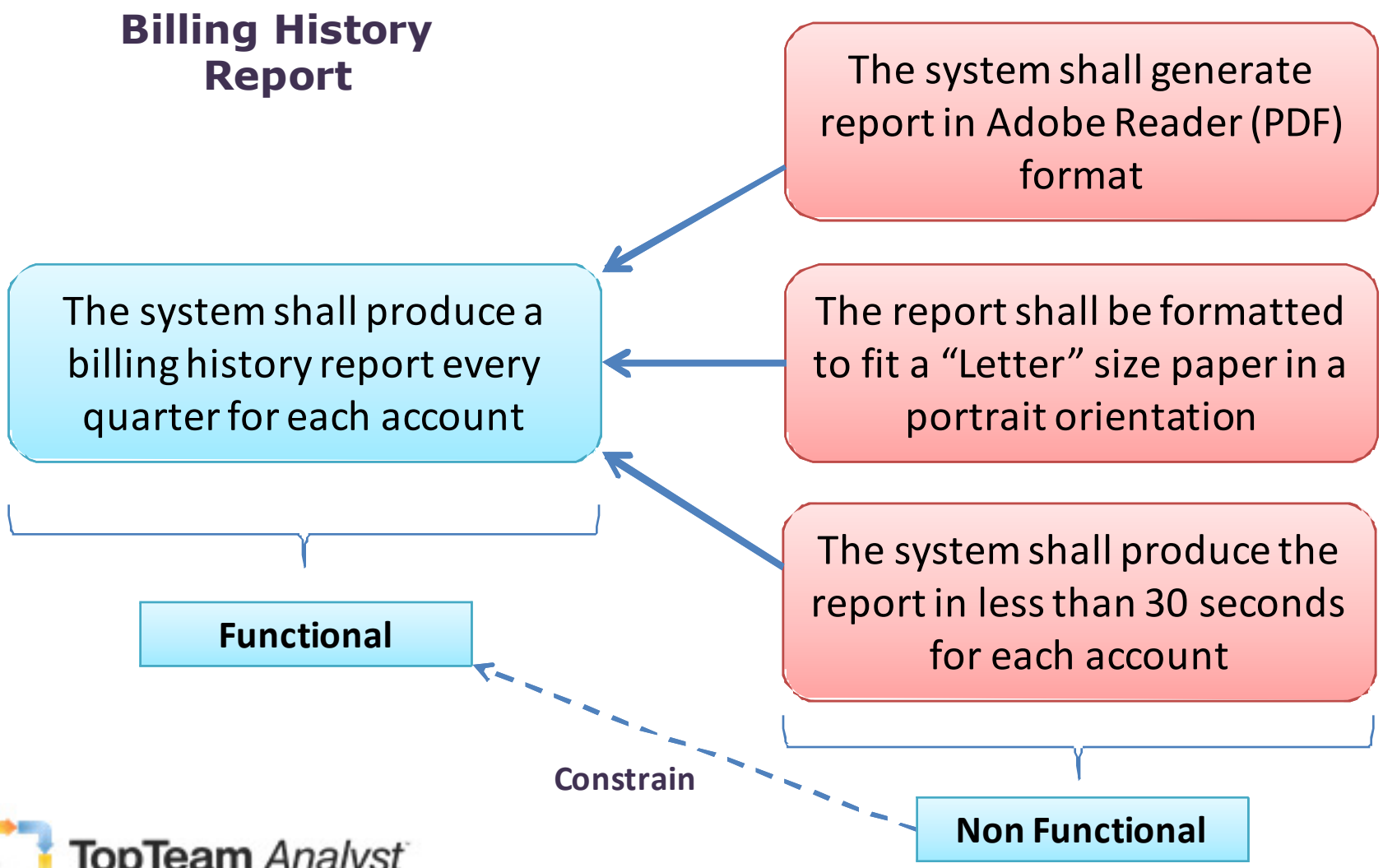
Discharge Rate in Amps	Time in hours	Total Amp Hours Available
24.0	26.09	626.3
36.0	16.09	579.4
48.0	11.42	548.2
60.0	8.75	525.2

Depth of Discharge	Ah used
15%	90 Ah
20%	120 Ah
50%	300 Ah
80%	480 Ah

Inserted Text

TopTeam *Analyst*

Requirements for a Business Application



TopTeam Analyst

Non-Functional Requirement Types also called “ilities”

- Availability
- Extensibility
- Interoperability
- Maintainability
- Portability
- Scalability
- Supportability
- Accessibility

TopTeam Analyst

Adapt TopTeam Analyst by configuring Non-Functional Requirements types that you need

Administration

Back | Administration > Configure System Record Types

Configure System Record Types

Create Record Type using Wizard
Use this wizard to define a new Record Type with all available options.

Edit Record Types
Edit Record Type properties such as Name, Prefix, Icon, etc.

Configure Record Type Traceability Rules
Configure the system rules that enforce how the different Record Types can be associated other.

Customize Record Type Fields
Add custom fields to Record Types. You can also modify the Caption, Allowed Values, Help the existing fields.

Configure Record Type Versioning Rules
Configure rules to specify when the application should create a new version of the record.

Requirement Type Configuration

Administration

Back | Administration > Configure System Record Types > Edit Record Types

Edit Record Types

Create and Edit Record Type

New Record Type | Save | Cancel | Delete Record Type | Related Tasks

Name (Plural) Accessibility Requirements
Enter a name for the Record type as it should appear in all interfaces in TopTeam.

Name (Singular) Accessibility Requirement
Enter the singular form of the name for this Record Type.

Initial Status Draft
Whenever a record of this type is created, it will be initialized with the Status specified here.

Prefix for Identifier ACCREQ
Specify a unique prefix for the identifier. e.g. UC-101, ISS-115, etc. Maximum permitted size is six characters.

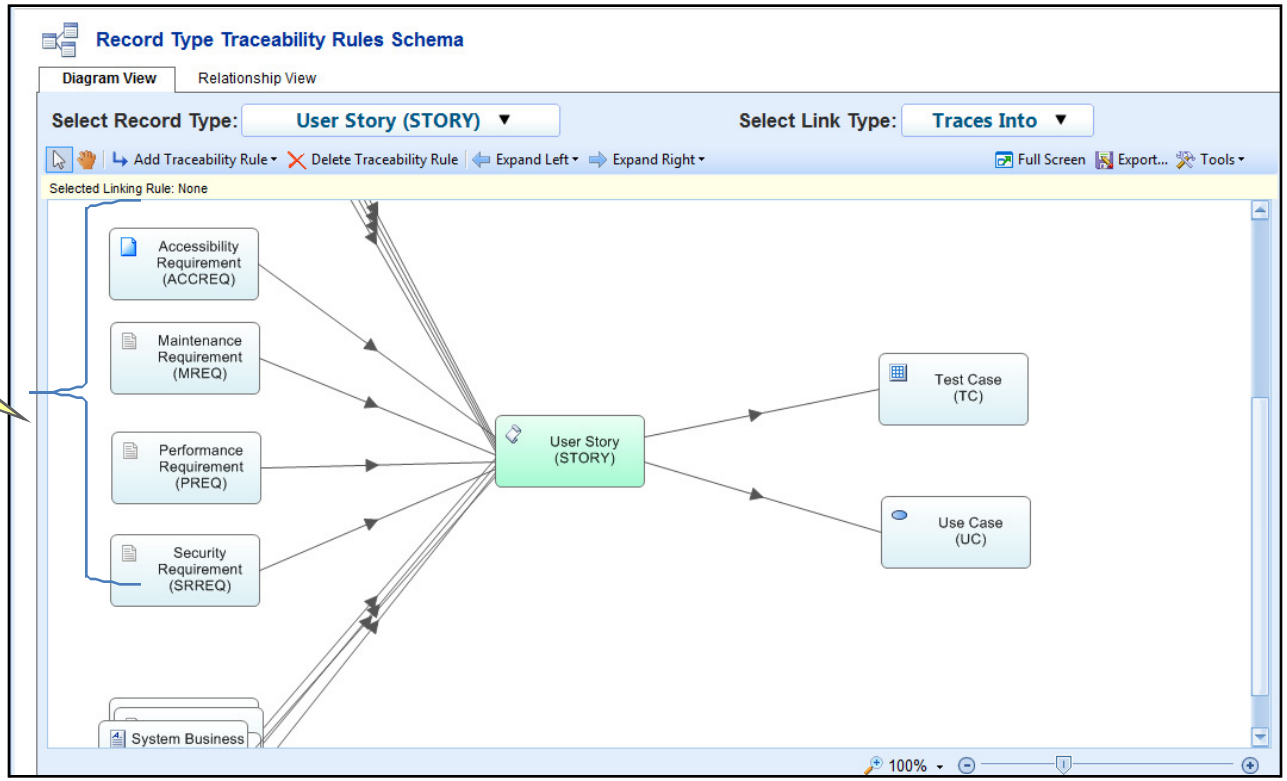
Image
Select an image for the Record Type. This image will appear in the browsers etc.

Create Non-Functional Requirement Types as per your needs

TopTeam Analyst

Non-Function Requirements vs User Stories Trace Configuration

Define Trace Schema/Rules



TopTeam Analyst

Link Non-Functional Requirements with User Stories

User Story

User Story Login to System [STORY-421]

New Delete More Document... Tools Close

*Name: Login to System STORY-421

Type: User Story State: New *Priority: Normal Owner:

Story Description Properties Comments Attachments Traceability Disc

As a: Customer

I want to: login to the system

So that: I can access and edit customer information.

User Story Login to System [STORY-421]

New Delete More Document... Tools Close

*Name: Login to System STORY-421

Type: User Story State: New *Priority: Normal Owner:

Story Description Properties Comments Attachments Traceability Disc

Traceability

Traceability Other Links

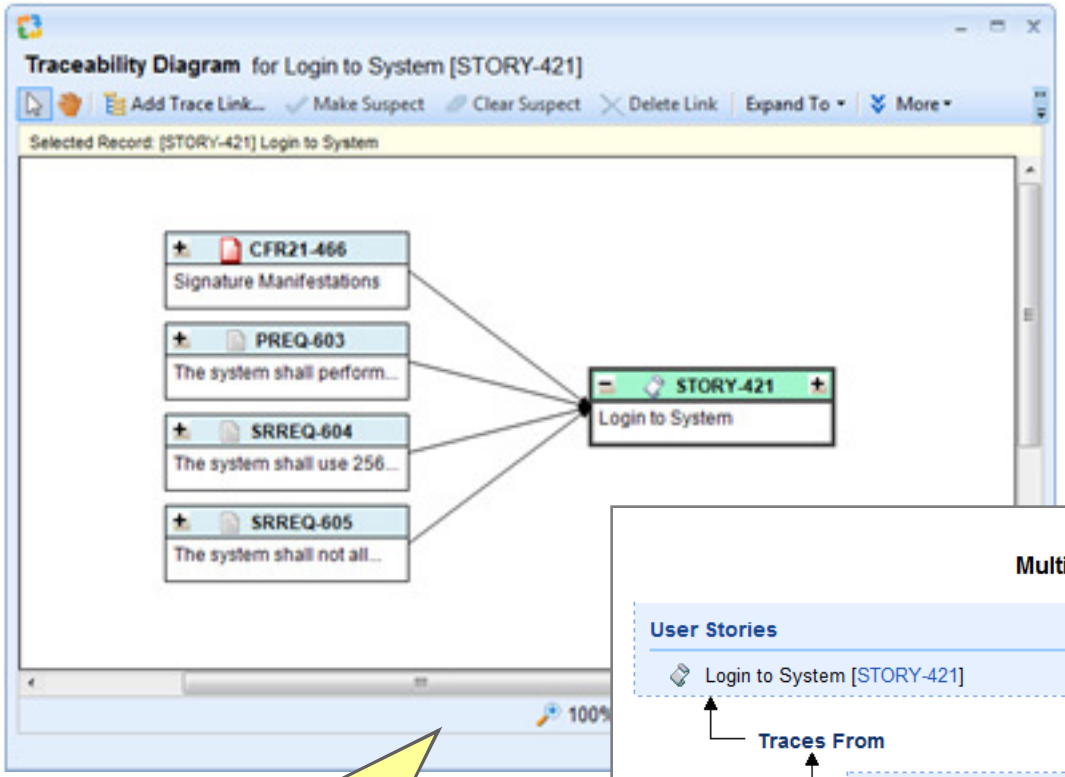
Add Trace Link Create Traced Rec Trace Report Trace Editors More

Name	ID	Suspect	Record Type	Project
: Traces From				
Signature Manifestations	CFR21-466		FDA CFR 21 ...	Megaflix - O...
The system shall perform authentication within 3 seconds	PREQ-603		Performance ...	Megaflix - O...
The system shall not allow login from mobile web browsers	SRREQ-6...		Security Requ...	Megaflix - O...
The system shall use 256 bit RSA encryption for authentication handshake	SRREQ-6...		Security Requ...	Megaflix - O...
: Traces Into				
Login to System	UC-436		Use Case	Megaflix - O...

Linked/Traced Non-Functional Requirements

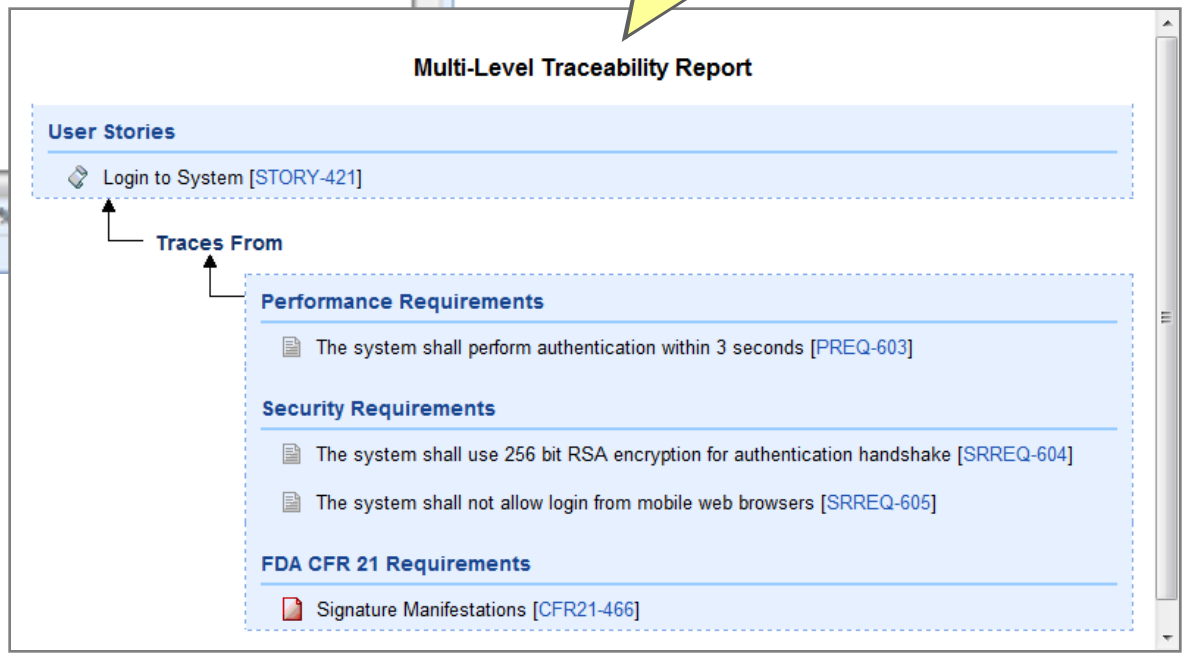
TopTeam Analyst

Trace links between User Story and Non-Functional Requirements



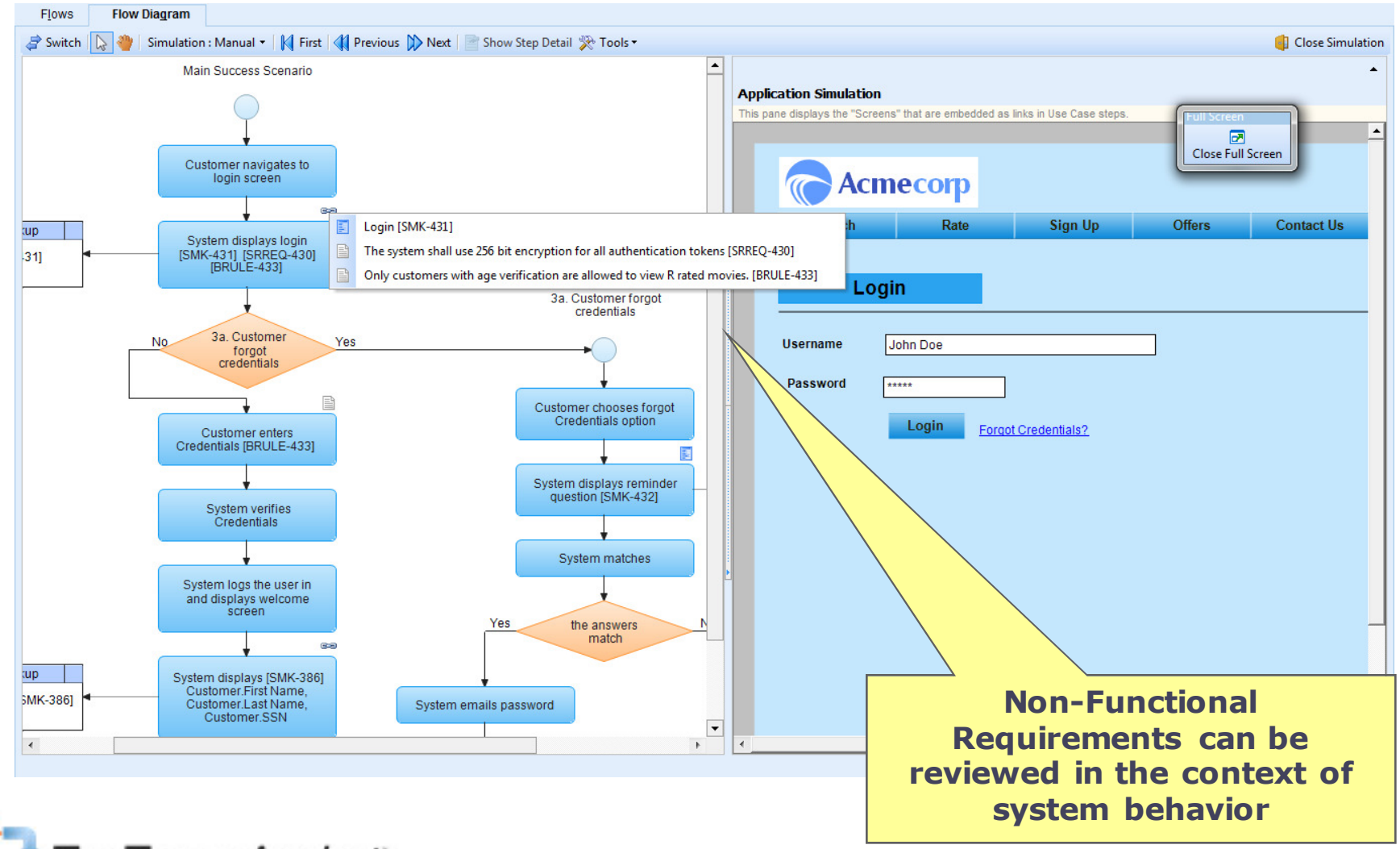
Graphical Trace Editor

Trace Report



TopTeam Analyst

Conduct Visual Application Walkthroughs with stakeholders



Non-Functional Requirements can be reviewed in the context of system behavior

TopTeam Analyst

Author and Manage Test Coverage for Non-Functional Requirements

Requirements Document View [RDOC-2321] Business Requirements Doc (Strict Mode)

Open | New | Delete | Refresh | Filter | Map | More | Split Window | Export... | Print | Tools | Close

1. **Business Requirements [BREQ-2322]**
   1.1. The system shall authenticate users before allowing ac
2. **Security Requirements [SRREQ-2324]**
   2.1. The system shall use 256 bit RSA encryption for auther
   2.2. The system shall not allow login from mobile web brows
3. **Performance Requirements [PREQ-2323]**
   3.1. The system shall perform authentication within 3 secon

Traced Test Cases for The system s... [SRREQ-605]

New Test Case | Link Test Case(s) | Remove | Detail...

Id	Title	State	Test T
TC-611	Login from Android Mobile Browser	Draft	Manual
TC-609	Login from Firefox Desktop Browser	Draft	Manual
TC-610	Login from Safari Desktop Browser	Draft	Manual

Actions: Requirements Document View - Click to Expand

Test Cases

TopTeam *Analyst*

Users Conduct Online Reviews & Approvals of Requirements via their Web Browsers

Video Rental System

Customer Area [RPG-4263]

Vision

Vision and Scope [ODOC-3045]

Screens

Acme Login [SMK-3545]

Approved | Needs Revision | Simulate | Add Comment

Acmecorp

Login to System

Get rapid iterative Requirements refinement

TopTeam *Analyst*

TopTeam *Analyst*™

- A **No-Compromise, end-to-end** Solution for **Visual** Requirements Definition and Requirements Management

- **Mature -** launched **2005**, now in **seventh** major release

- Used by more than **500 organizations in 55 countries**

TopTeam Analyst™ integrations

Quality Center

Rally

Team System (TFS)

JIRA

Microsoft Word

Microsoft Excel

TopTeam Open API
(Integrate anything)

TopTeam Analyst™

Learn more or try it yourself

TopTeamAnalyst.com

For more information

info@TechnoSolutions.com

"I am enjoying using TopTeam. It allows me more creative time, instead of document formatting time, so my analysis is better and more detailed."

Carl Knowlan
Senior Analyst & Product Manager
Houston, Texas

3M · GE · Lockheed Martin · hp · Manulife Financial · Siemens · Standard Bank · Northrop Grumman · CSX Transportation · Wyeth

The Requirements Company™

IIBA Vendor Showcase
Non-Functional Requirements

December 12, 2013

Tony Higgins – VP Product Marketing

Blueprint

Blueprint develops requirements definition and management (RDM) software purpose-built to solve the many errors and inefficiencies encountered in RDM today.

Using Blueprint results in better requirements and reduced rework, leading to successful projects and better applications.

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Blueprint Requirements Definition & Management Platform

Author

Business Process Diagram

Textual Requirement

Use Case Diagrams

Use Cases

Generic Diagram

Glossaries

Storyboards

User Interface Mockups

Actors

Domain Diagram

Validate

Simulation

Online Review/Approve

Document Generation

Manage

Traceability

Version/Baseline

Reuse

Visual Differencing

Monitor

Coverage

Cost / Status

Progress

Consolidated Dashboard

Collaborate

Inline Discussions

Notifications

Requirements Sharing

Personal Activity Center

Integrate

Test Generation

Excel, Visio Import/Export

Word Conversion

ALM Integrations

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

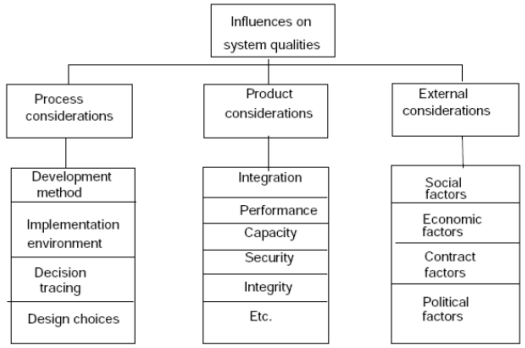
Types

Absorbability
Access Control
Accessibility
Accountability
Accuracy
Adaptability
Additivity
Adjustability
Affordability
Agility
Appealability
Attractiveness
Auditability
Augmentability
Authenticity
Autonomy
Availability
Buffer Space Performance
Capability
Capacity
Changeability
Clarity
Cleanability
Cleanliness
Code Space Performance
Cohesiveness
Commonality
Communication Cost
Communication Time
Communicativeness
Comparability
Compatibility
Completeness
Component Integration Cost
Component Integration Time
Composability
Comprehensibility
Computability
Conceptuality
Conciseness
Confidentiality
Configurability
Connectivity
Consistency
Controllability
Coordination Cost
Coordination Time
Correctness
Coupling
Customer Evaluation Time
Customer Loyalty
Customizability
Data Space Performance
Decomposability
Degradation of Service
Deliverability
Dependability
Development Cost
Development Time
Disposability
Distributivity
Diversity
Domain Analysis Cost
Domain Analysis Time
Duplicatability
Ease of use
Efficiency
Elasticity
Enhanceability
Evolvability
Execution Cost
Expandability
Expendability
Extendibility
Extensibility
External Consistency
Fault-Tolerance
Feasibility
Flexibility
Foolproof-ability
Formality
Generality
Guidance
Human Engineering
Impact Analyzability
Implementability
Independence
Informativeness
Inspection Cost
Inspection Time
Installability
Integrity
Interchangeability
Internal Consistency
Interoperability
Intuitiveness
Iterativeness
Learnability
Legibility
Leveragability
Likeability
Main Memory Performance
Maintainability
Maintenance Cost
Maintenance Time
Manageability
Maneuverability
Maturity
Mean Performance
Measurability
Migratability
Mobility
Modifiability
Modularity
Multiness
Naturalness
Nomadicity
Observability
Off-Peak-Period Performance
Operability
Operating Cost
Peak Period Performance
Performability
Planning Cost
Planning Time
Plasticity
Portability
Precision
Predictability
Process Management Time
Productivity
Project Stability
Project Tracking Cost
Promptness
Prototyping Cost
Prototyping Time
Quality
Quantitativeness
Readability
Readiness
Reconfigurability
Recoverability
Recovery
Recyclability
Reengineering Cost
Reliability
Repeatability
Replaceability
Replicability
Response Time
Responsiveness
Retirement Cost
Reusability
Risk Analysis Cost
Risk Analysis Time
Robustness
Safety
Scalability
Security
Self-containedness
Self-descriptiveness
Sensitivity
Similarity
Simplicity
Software Cost
Space Boundedness
Space Performance
Specificity
Stability
Standardizability
Storability
Structuredness
Subjectivity
Supportability
Surety
Survivability
Susceptibility
Sustainability
Tankness
Testability
Testing Time
Throughput
Timeliness
Toleranceness
Traceability
Trainability
Transferability
Transitionability
Transparency
Understandability
Uniform Performance
Uniformity
Unparochialness
Usability
User-friendliness
Validity
Variability
Verifiability
Versatility
Versionability
Visibility
Volatility
Wrappability
Workability
Zero-defectness

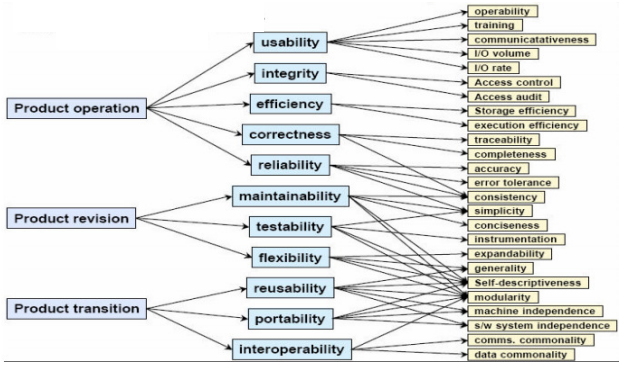
The Quest for Software Requirements, Roxanne Miller

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Classification Schemes / Taxonomy



Sommerville, 1992



Van Vliet, 2000

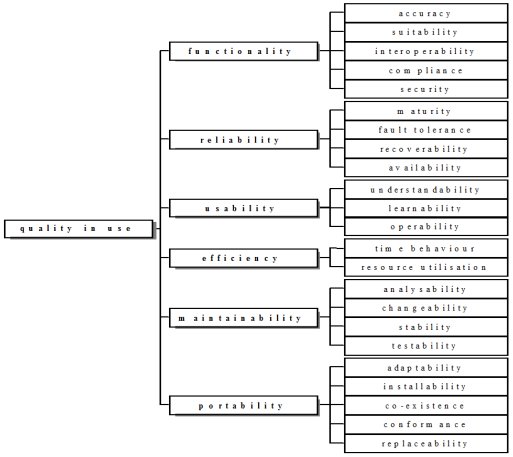
The FURPS+ System for Classifying Requirements

- Functionality
- Usability
- Reliability
- Performance
- Supportability

The "+" in FURPS+ also helps us to remember concerns such as:

- Design requirements
- Implementation requirements
- Interface requirements
- Physical requirements

Unified Process



ISO 9126

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Classification Schemes / Taxonomy

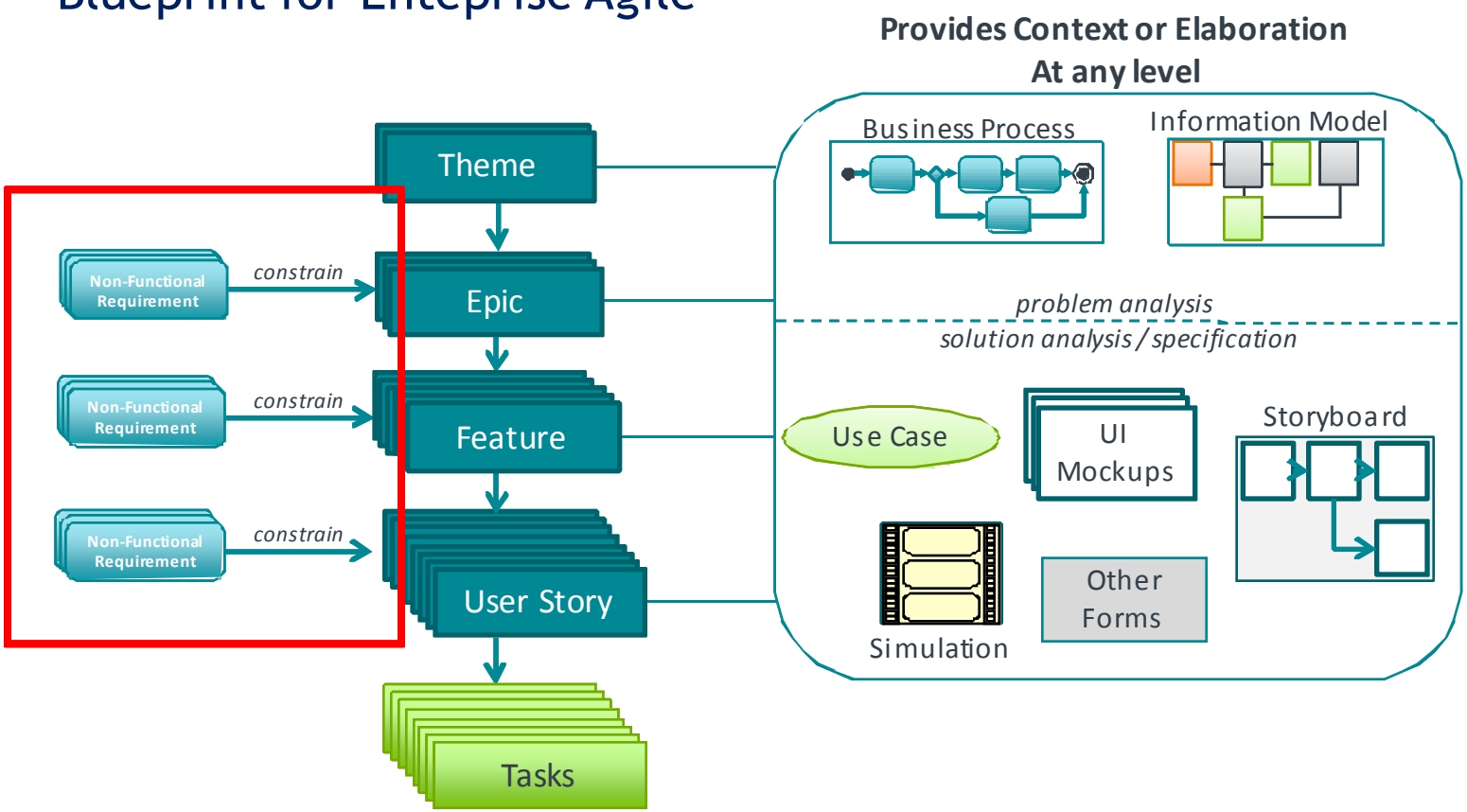
	McCall 1980	Keller 1990	Deutsch 1988	ISO/IEC 9126; 1991	Sommerville 1992	Gilb 2005	Miller 2009
Availability						x	x
Correctness	x	x	x				
Efficiency	x	x	x	x	x	x	x
Expandability		x	x				x
Flexibility	x	x	x			x	x
Integrity	x	x	x			x	x
Interoperability	x	x	x	x	x		x
Maintainability	x	x	x	x		x	x
Portability	x	x	x	x	x		x
Reliability	x	x	x	x	x	x	x
Reusability	x	x	x				x
Safety			x		x		
Security				x			x
Survivability		x	x				x
Testability	x			x			
Usability	x	x	x	x	x	x	x
Verifiability		x	x				x

The Quest for Software Requirements, Roxanne Miller

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

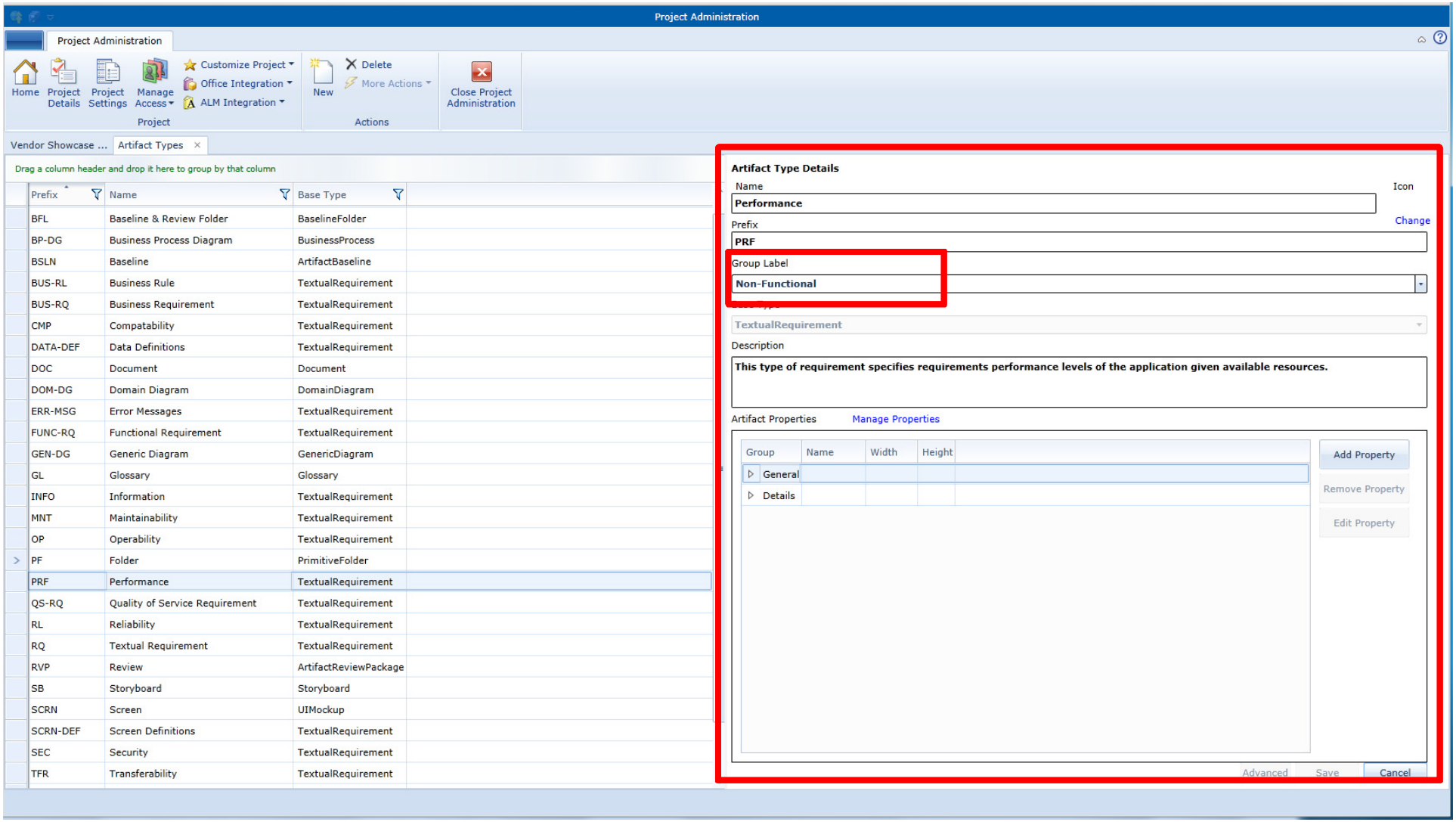
Requirements Taxonomy

Blueprint for Enteprise Agile



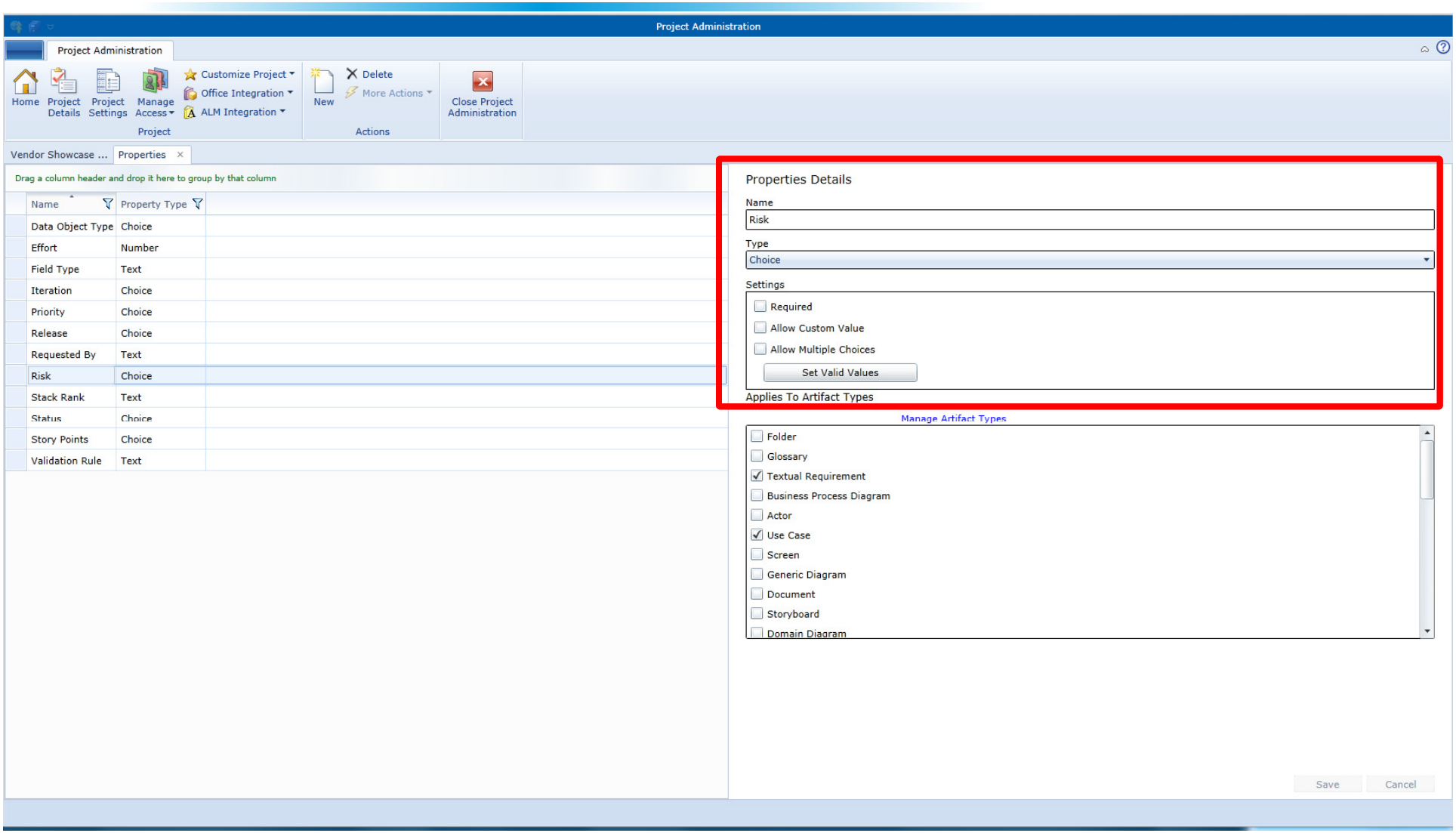
Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Define Whatever Types you Need



Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Define Whatever Properties you Need



Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

… and Share Them !

Project Administration

Project Administration

Home | Project Details | Project Settings | Manage Access | Customize Project | Office Integration | ALM Integration | New | Delete | More Actions | Close Project Administration

Project | Actions

Vendor Showcase … | Properties

Drag a column header and drop it here to group by that column

Name	Property Type
Data Object Type	Choice
Effort	Number
Field Type	Text
Iteration	Choice
Priority	Choice
Release	Choice
Requested By	Text
Risk	Choice
Stack Rank	Text
Status	Choice
Story Points	Choice
Validation Rule	Text

Properties Details

Name: Risk

Type: Choice

Settings

- [ ] Required
- [ ] Allow Custom Value
- [ ] Allow Multiple Choices

Set Valid Values

Applies To Artifact Types

Manage Artifact Types

- [ ] Folder
- [ ] Glossary
- [x] Textual Requirement
- [ ] Business Process Diagram
- [ ] Actor
- [x] Use Case
- [ ] Screen
- [ ] Generic Diagram
- [ ] Document
- [ ] Storyboard
- [ ] Domain Diagram

Save | Cancel

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Project Template – Standard. Consistent.

Instance Administration

Home | Projects | Configure Instance | Manage Users and Groups | Manage Administrator Roles | New | Delete | More Actions | Close Instance Administration

Instance | Manage Items

Home | Projects

Search

Product Management
- Allison
- Ari
- Benchmarking
- Christina
- Customer Project Testing
- Diego
- Jeff
- John
- Mark Rinker
- Matt
- Rob
- Roman
- Tony
- Blueprint
- Blueprint product process
- BP Air - 5.3 Release Demo
- BP Air (From RC2010) - PM Demo
- Feature Teams
- Jeff Test
- Release Notes
- TEST-Blueprint Roadmap
- WinLoss

R&D

Sample

[ARITEST] BP Air Online

Project Details

New Project

Name: Freight Handling Enhancements

Description: This project will implement high-priority enhancements for the freight handling system.

Location: /Blueprint/Product Management/

Select Source

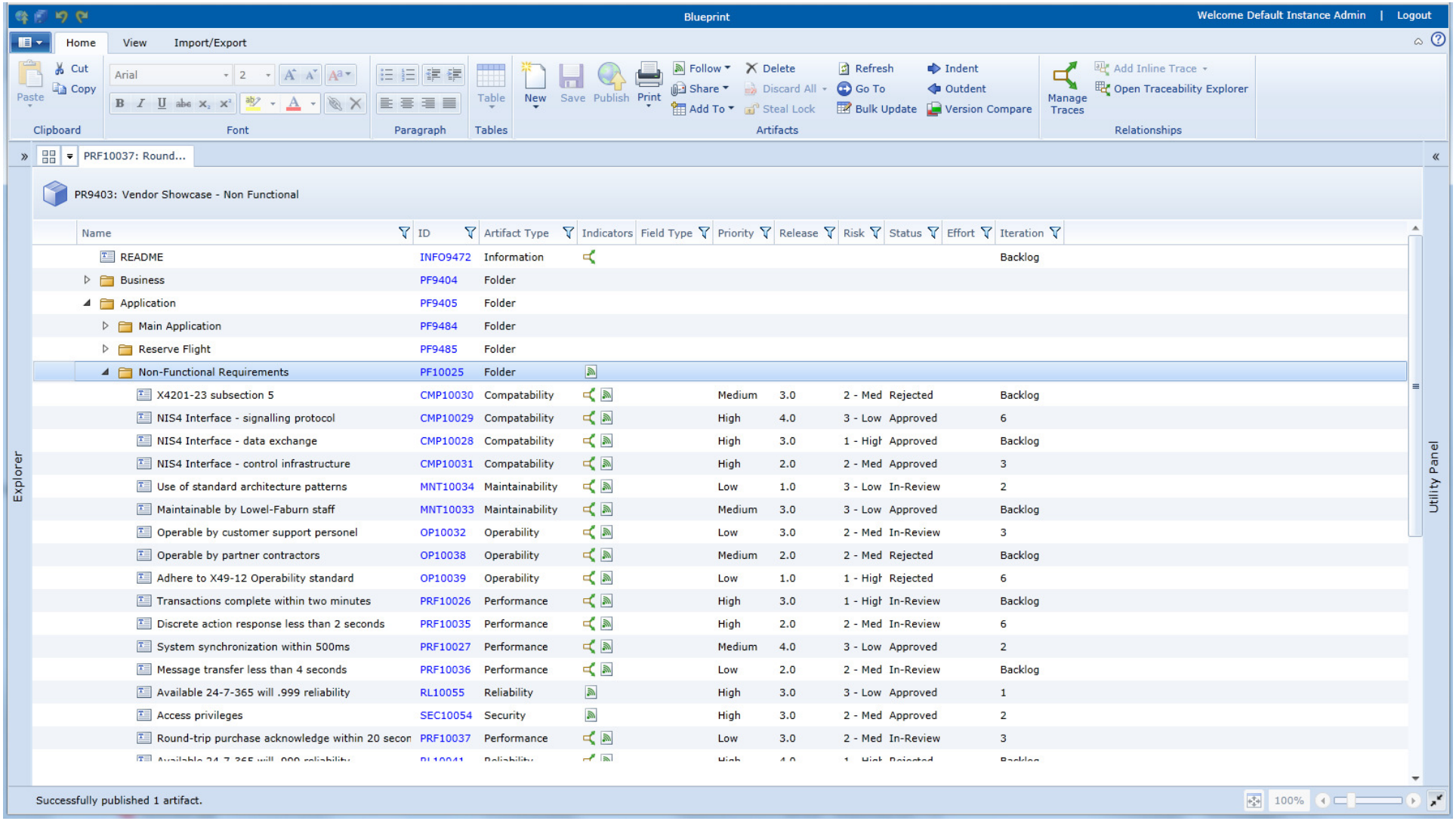
- Empty Project
- Project Template: /Blueprint/Marketing/Tony/Experiments/Blueprint Airlines VM
- ☑ Include all artifacts in the new project

OK | Cancel

Launch Project Administration | Save | Cancel

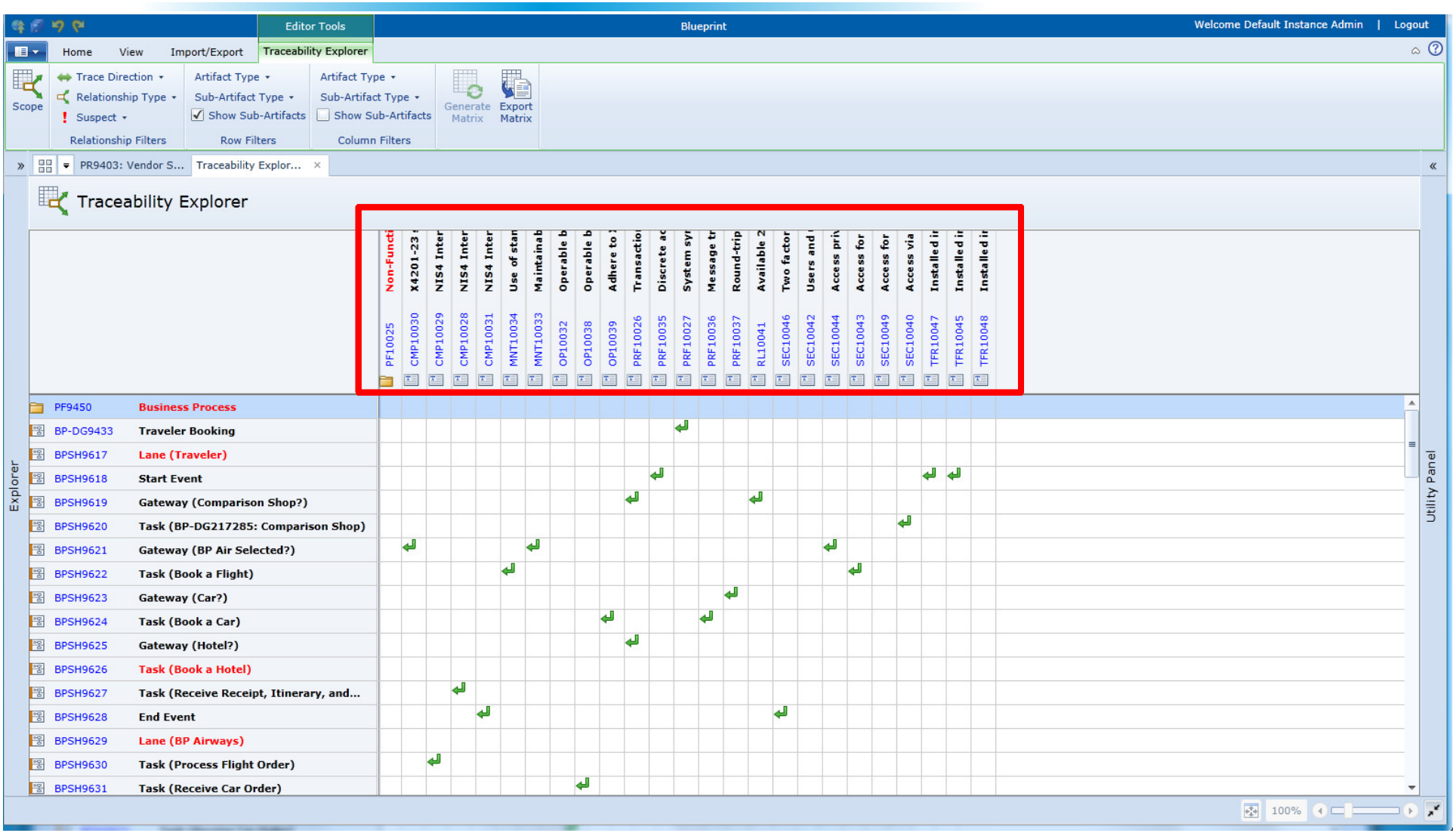
Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Consolidated View



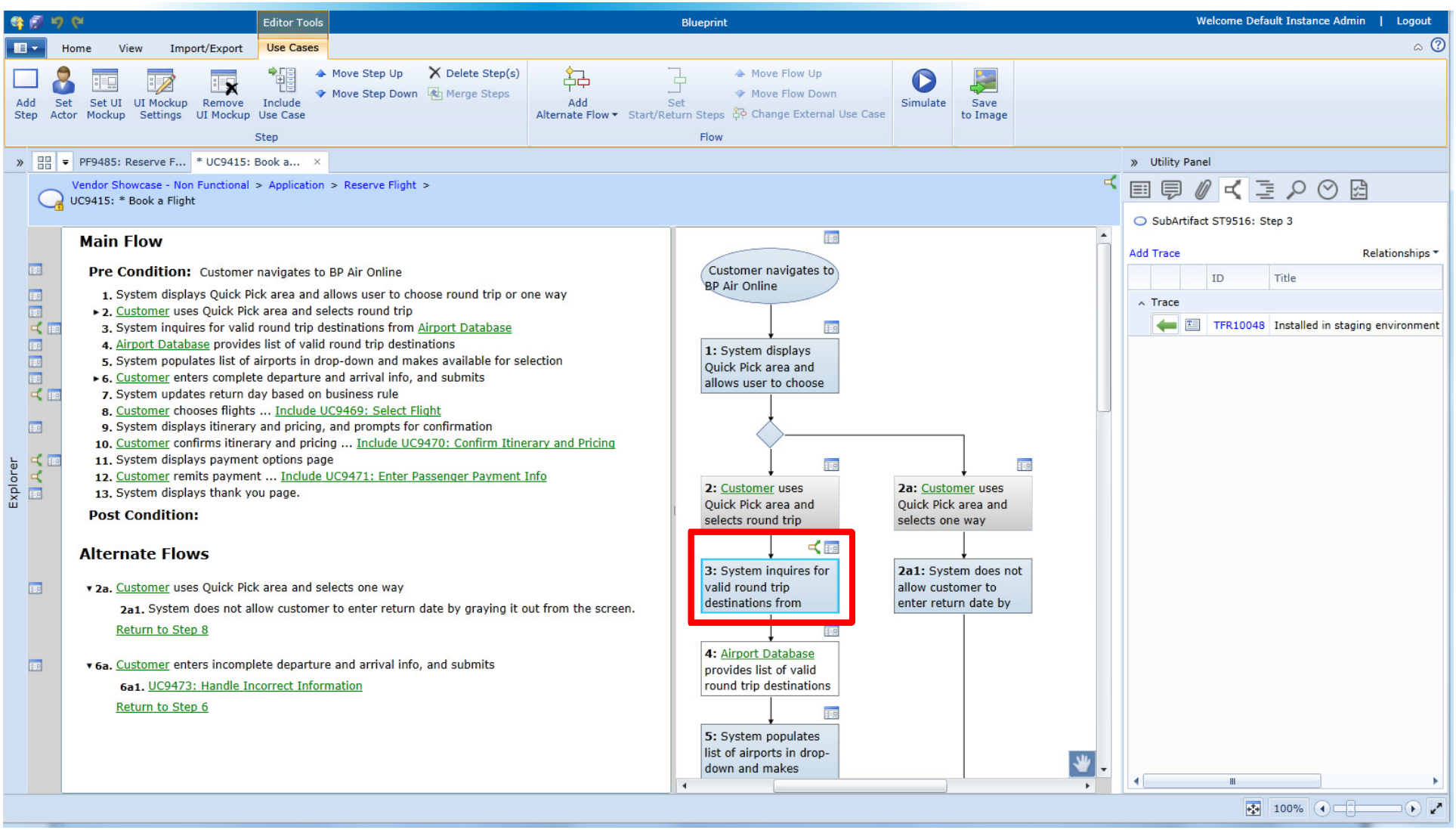
Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Relationships with Traceability View



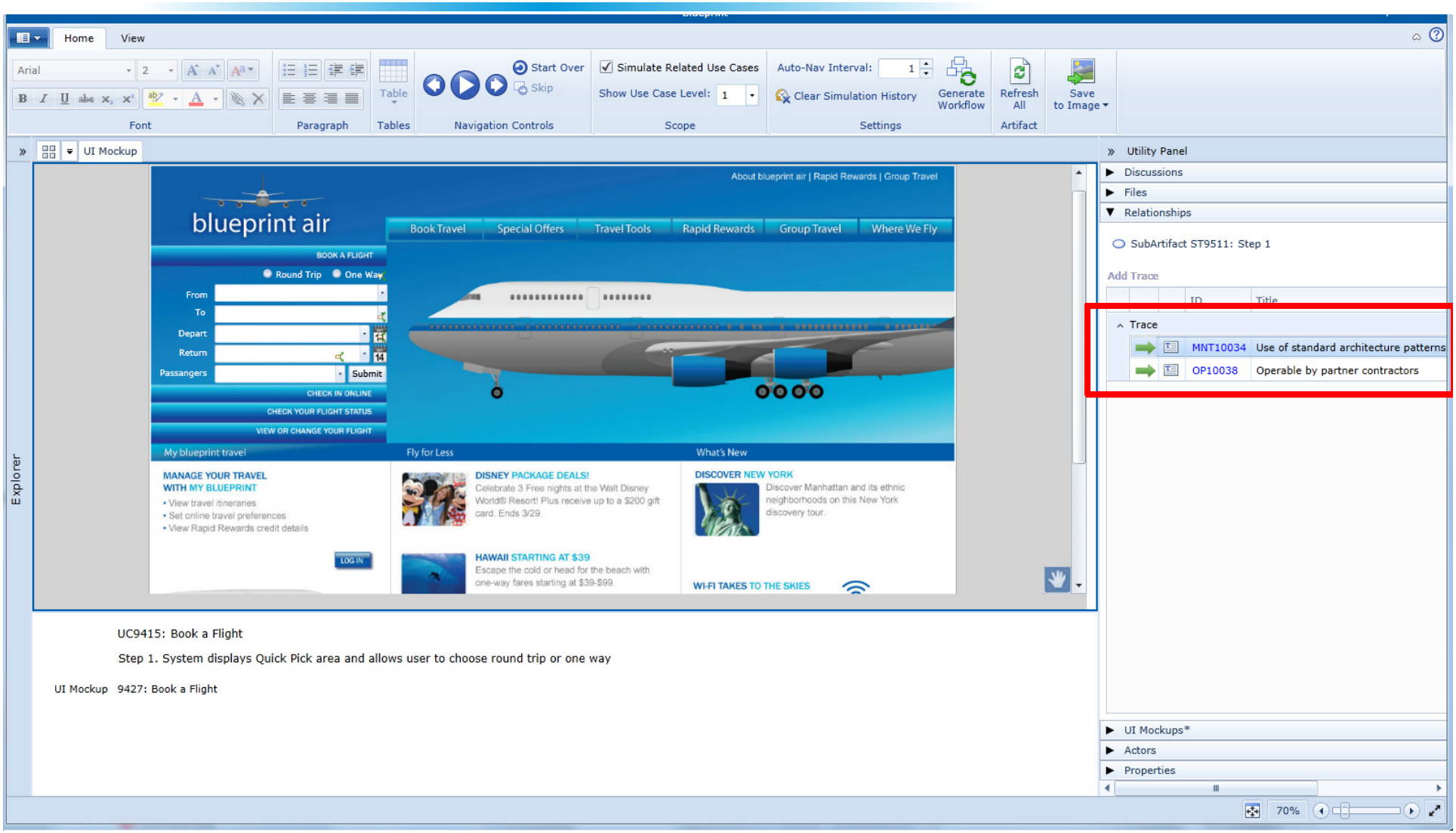
Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Fine-Grained Traceability



Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Available in Simulations …



Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

And in Reviews …

blueprint

Blueprint | Welcome Nancy Davidson | Close

Home | View

Clipboard: Paste, Cut, Copy | Font: Arial, 2 | Paragraph | Tables: Table | Artifact: Follow, Refresh, Approved, Pending Approval, Disapproved, New Comment | Review: Mark Review Complete | Simulate | Go To

New Review 1 | OP10032: Operab...

Contents	ID	Description	View State	Approval
Application	PF9405		Not Requested	Approval Not Requested
Main Application	PF9484		Not Requested	Approval Not Requested
Reserve Flight	PF9485		Not Requested	Approval Not Requested
Register for Reward Program	PF9486		Not Requested	Approval Not Requested
Create account	PF9489		Not Requested	Approval Not Requested
Reserve Car	PF9487		Not Requested	Approval Not Requested
Reserve Hotel	PF9490		Not Requested	Approval Not Requested
Maintain Online Account Information	PF9488		Not Requested	Approval Not Requested
Payments	PF9497		Not Requested	Approval Not Requested
Quality of Service Requirements	PF9420		Not Requested	Approval Not Requested
Non-Functional Requirements	PF10025		Not Requested	Approval Not Requested
X4201-23 subsection 5	CMP10030		Not Viewed	Pending Approval
NIS4 Interface - signalling protocol	CMP10029		Viewed	Approved
NIS4 Interface - data exchange	CMP10028		Viewed	Approved
NIS4 Interface - control infrastructure	CMP10031		Viewed	Approved
Use of standard architecture patterns	MNT10034		Viewed	Approved
Maintainable by Lowel-Faburn staff	MNT10033		Viewed	Approved
Operable by customer support personel	OP10032		Not Viewed	Pending Approval
Operable by partner contractors	OP10038		Not Viewed	Pending Approval
Adhere to X49-12 Operability standard	OP10039		Not Viewed	Pending Approval
Transactions complete within two minutes	PRF10026		Not Viewed	Pending Approval
Discrete action response less than 2 seconds	PRF10035		Not Viewed	Pending Approval
System synchronization within 500ms	PRF10027		Not Viewed	Pending Approval
Message transfer less than 4 seconds	PRF10036		Not Viewed	Pending Approval
Round-trip purchase acknowledge within 20 seconds	PRF10037		Not Viewed	Pending Approval

Utility Panel

OP10032: Operable by customer support...

Properties

Name	Operable by customer...
Id	OP10032
Type	

Author History

Created By	Default Instance Admin
Last Edited By	Default Instance Admin
Created On	09/12/2013 5:19 PM
Last Edited On	09/12/2013 5:19 PM

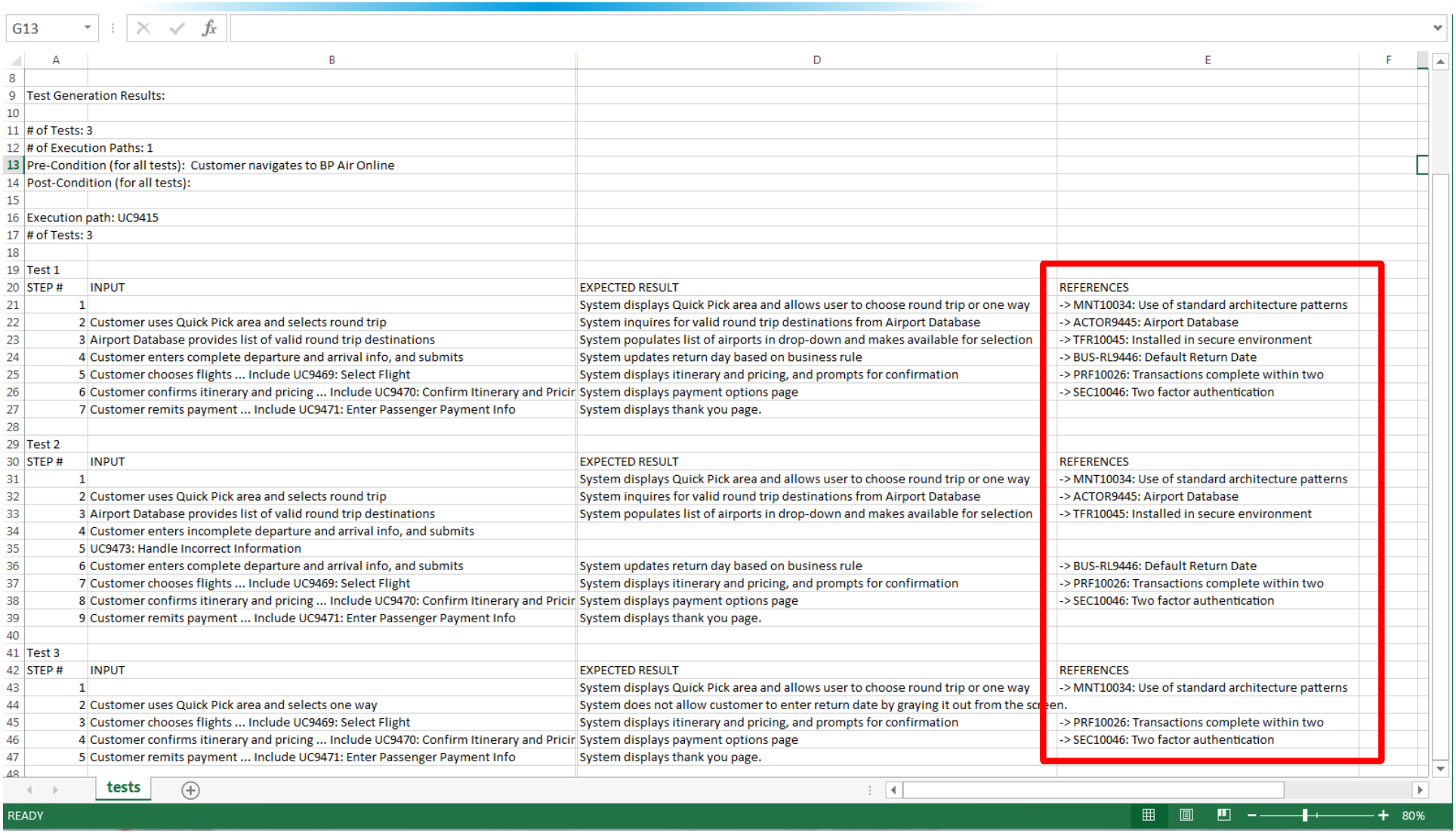
Details

Description

10%

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Output in generated tests ….



	A	B	D	E
8				
9	Test Generation Results:			
10				
11	# of Tests: 3			
12	# of Execution Paths: 1			
13	Pre-Condition (for all tests): Customer navigates to BP Air Online			
14	Post-Condition (for all tests):			
15				
16	Execution path: UC9415			
17	# of Tests: 3			
18				
19	Test 1			
20	STEP #	INPUT	EXPECTED RESULT	REFERENCES
21	1		System displays Quick Pick area and allows user to choose round trip or one way	-> MNT10034: Use of standard architecture patterns
22	2	Customer uses Quick Pick area and selects round trip	System inquires for valid round trip destinations from Airport Database	-> ACTOR9445: Airport Database
23	3	Airport Database provides list of valid round trip destinations	System populates list of airports in drop-down and makes available for selection	-> TFR10045: Installed in secure environment
24	4	Customer enters complete departure and arrival info, and submits	System updates return day based on business rule	-> BUS-RL9446: Default Return Date
25	5	Customer chooses flights ... Include UC9469: Select Flight	System displays itinerary and pricing, and prompts for confirmation	-> PRF10026: Transactions complete within two
26	6	Customer confirms itinerary and pricing ... Include UC9470: Confirm Itinerary and Pricir	System displays payment options page	-> SEC10046: Two factor authentication
27	7	Customer remits payment ... Include UC9471: Enter Passenger Payment Info	System displays thank you page.	
28				
29	Test 2			
30	STEP #	INPUT	EXPECTED RESULT	REFERENCES
31	1		System displays Quick Pick area and allows user to choose round trip or one way	-> MNT10034: Use of standard architecture patterns
32	2	Customer uses Quick Pick area and selects round trip	System inquires for valid round trip destinations from Airport Database	-> ACTOR9445: Airport Database
33	3	Airport Database provides list of valid round trip destinations	System populates list of airports in drop-down and makes available for selection	-> TFR10045: Installed in secure environment
34	4	Customer enters incomplete departure and arrival info, and submits		
35	5	UC9473: Handle Incorrect Information		
36	6	Customer enters complete departure and arrival info, and submits	System updates return day based on business rule	-> BUS-RL9446: Default Return Date
37	7	Customer chooses flights ... Include UC9469: Select Flight	System displays itinerary and pricing, and prompts for confirmation	-> PRF10026: Transactions complete within two
38	8	Customer confirms itinerary and pricing ... Include UC9470: Confirm Itinerary and Pricir	System displays payment options page	-> SEC10046: Two factor authentication
39	9	Customer remits payment ... Include UC9471: Enter Passenger Payment Info	System displays thank you page.	
40				
41	Test 3			
42	STEP #	INPUT	EXPECTED RESULT	REFERENCES
43	1		System displays Quick Pick area and allows user to choose round trip or one way	-> MNT10034: Use of standard architecture patterns
44	2	Customer uses Quick Pick area and selects one way	System does not allow customer to enter return date by graying it out from the screen.	
45	3	Customer chooses flights ... Include UC9469: Select Flight	System displays itinerary and pricing, and prompts for confirmation	-> PRF10026: Transactions complete within two
46	4	Customer confirms itinerary and pricing ... Include UC9470: Confirm Itinerary and Pricir	System displays payment options page	-> SEC10046: Two factor authentication
47	5	Customer remits payment ... Include UC9471: Enter Passenger Payment Info	System displays thank you page.	

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Output in Generated Documents …

Contents

Non Functional Requirements 3

CMP10030: X4201-23 subsection 5 [Compatability] 3
CMP10029: NIS4 Interface - signalling protocol [Compatability] 3
CMP10028: NIS4 Interface - data exchange [Compatability] 4
CMP10031: NIS4 Interface - control infrastructure [Compatability] 5
MNT10034: Use of standard architecture patterns [Maintainability] 5
MNT10033: Maintainable by Lowel-Faburn staff [Maintainability] 6
OP10032: Operable by customer support personel [Operability] 6
OP10038: Operable by partner contractors [Operability] 7
OP10039: Adhere to X49-12 Operability standard [Operability] 7
PRF10026: Transactions complete within two minutes [Performance] 8
PRF10035: Discrete action response less than 2 seconds [Performance] 9
PRF10027: System synchronization within 500ms [Performance] 9
PRF10036: Message transfer less than 4 seconds [Performance] 10
PRF10037: Round-trip purchase acknowledge within 20 seconds [Performance] 10
RL10041: Available 24-7-365 will .999 reliability [Reliability] 11
SEC10046: Two factor authentication [Security] 11
SEC10042: Users and Groups [Security] 12
SEC10044: Access privileges [Security] 13
SEC10043: Access for artifacts [Security] 13
SEC10049: Access for folders and groups [Security] 14
SEC10040: Access via API [Security] 14
TFR10047: Installed in X47 class III environment [Transferability] 15
TFR10045: Installed in secure environment [Transferability] 15
TFR10048: Installed in staging environment [Transferability] 16

Business Processes: 16

BP-DG9433: Traveler Booking [] 16

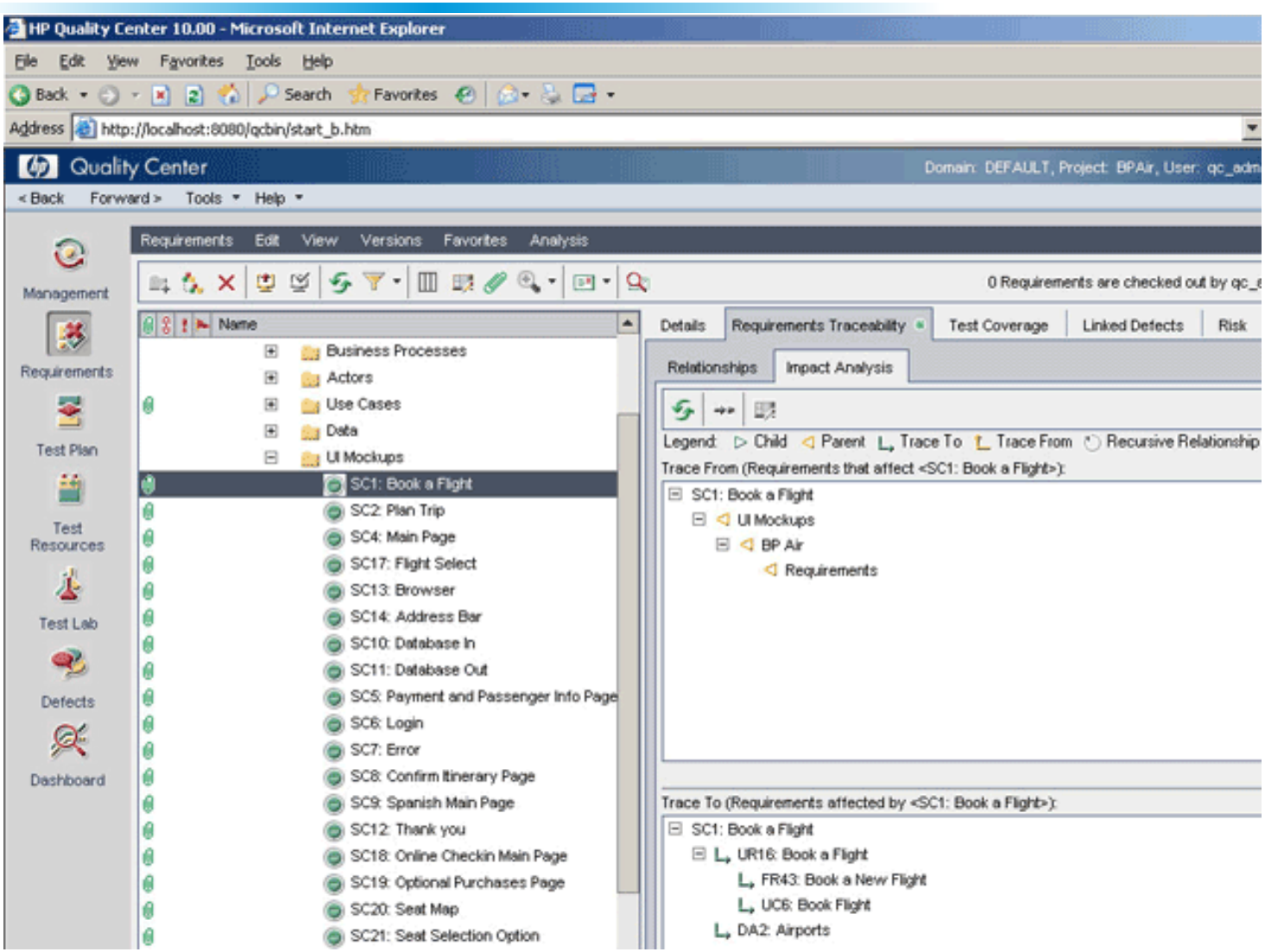
Use Cases: 19

UC9415: Book a Flight [Use Case] 19

Storyboards: 21

Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

Exchanged with other products (e.g. HP-QC)



Copyright © 2013 Blueprint Software Systems Inc. All Rights Reserved.

More information:

website: www.blueprintsys.com
email: info@blueprintsys.com

Contact Information

Register for more webinars on the Learning and Development page of our website – under Webinars.

Ashu Potnis
TopTeam Analyst
apotnis@technosolutions.com

Tony Higgins
Blueprint
tony.higgins@blueprintsys.com

© International Institute of Business Analysis