DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems	
Out of O Table Of the Date!	a Bassad
Sprint 2 Task Status Detail	s Report
Printed By: bobrien@provensecure.com	
Confidential ProvenSecure Solutions, LLC	2013-07-28 09:16:16 PM

eport Conte	ents						
ank ID	Name	State	Plan Est	Task Est	To Do	Discussion Count	Owner
			66.5	66.5	66.5		
US23	Capture a Packge of Raw Authenication Results	DPCA	28.5	28.5	28.5	0	Stephe
TA43	Create Stub for Password Capture	DPC	2.0	2.0	2.0	0	Allen
TA44	Create Stub for AT&T Voice call	DPC	3.0	3.0	3.0	0	Allen
TA45	Create Stub for second biometric call	DPC	4.0	4.0	4.0	0	Allen
TA46	Create Stub for SMS Message Check call	DPC	1.5	1.5	1.5	0	Allen
TA47	Create Stub for Challenge Question call	DPC	2.0	2.0	2.0	0	Allen
TA48	Execute raw authentication results capture sequence	DPC	8.0	8.0	8.0	0	Allen
TA18	Save raw authentication results to data file.	DPC	8.0	8.0	8.0	0	Allen
US29	Generate Test/Use Cases by Multiplexing Environmental Factors	DPCA	16.0	16.0	16.0	0	Stephe
TA55	Clone a baseline case many times with different permutations of environment factors	DPC	16.0	16.0	16.0	0	Allen
US19	Process a Single Batch Test/Use Case	DPCA	18.0	18.0	18.0	0	Stepher
TA57	Create stub for RMM call	D P C	4.0	4.0	4.0	0	Allen
TA64	Create stub for threshold calculator	DPC	2.0	2.0	2.0	0	Allen
TA39	Accept scenario input and run through processing	DPC	8.0	8.0	8.0	0	Allen
TA58	Save test results to output file	DPC	4.0	4.0	4.0	0	Allen
US18	Batch Processing of All Test/Use Cases	DPCA	4.0	4.0	4.0	0	Stephe
TA38	Loop through use/test case dataset and run each through processing.	DPC	4.0	4.0	4.0	0	Allen

2013-07-28 09:16:16 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems **US23: Capture a Packge of Raw Authenication Results** General ID: US23 Name: Capture a Packge of Raw Authenication Results Tags: Description: As an Experimental Tester, I need to capture a full set of authentication scores so that we can build up test cases for RMM processing and analysis The Experimental Tester needs to launch the bench and invoke the "capture raw authentication data" function. The tester will be asked to complete each of the authentication procedures that we will be investigating, and the full set of authentication scores will be stored. In this coding iteration, the authenticators will be represented by "stubs". In the next sprint, stubs will be replaced with "real" code. Attachments: Owner: Stephen Hierarchy Parent: US20: (EPIC) Capture Baseline Data Schedule State: Defined Blocked: false Ready: false Blocked Reason: Iteration: Sprint 2 Plan Est: 28.5 Points Task Est: 28.5 Hours To Do: 28.5 Hours

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

Confidential -- ProvenSecure Solutions, LLC

State: Defined

Ready: false

TA43: Create Stub	for Password Capture
General	
ID:	TA43
Name:	Create Stub for Password Capture
Tags:	
Description:	Put up a screen for password information capture (not necessarily "ask for password"; more likely, "ask for password age, complexity, number of fails, etc.", but don't really process input. Return some fixed value.
Attachments:	
Owner:	Allen
Task	

3 of 11 7/28/2013 9:16 PM

Blocked: false

Blocked Reason:

Estimate: 2.0 Hours

To Do: 2.0 Hours

Work Product: US23: Capture a Packge of Raw Authenication Results

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:16 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA44: Create Stub for AT&T Voice call

General

ID: TA44

Name: Create Stub for AT&T Voice call

Tags:

Description: More than a true stub actually...

Create a screen that will ask for a phone number to use when the AT&T call is eventually in place, a "launch" button that will eventually trigger the AT&T authenticator. A set of fields that will allow manual input of results will also be provided. For the first pass, these values are the "stub" returns. Eventually,

Blocked: false

they will permit override in the event the real authenticator is not working.

Attachments:

Owner: Allen

Task

State: Defined

Blocked Reason: Ready: false

Estimate: 3.0 Hours To Do: 3.0 Hours

Work Product: US23: Capture a Packge of Raw Authenication Results

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:16 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA45: Create Stub for second biometric call

General

ID: TA45

Name: Create Stub for second biometric call

Tags:

Description:

Create a screen that will place, a "launch" button that will eventually trigger the biometric authenticator. A set of fields that will allow manual input of results will also be provided. For the first pass, these values are the "stub" returns. Eventually, they will permit override in the event the real authenticator is not working.

NOTE: WE NEED TO IDENTIFY THE AUTHENTICATOR BEFORE WE GET TO THIS TASK!

7/28/2013 9:16 PM 4 of 11

Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked:	false
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US23: Capture a Packge of Raw Authenication Results		
Confidential Prove	enSecure Solutions, LLC		2013-07-28 09:16:16 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA46: Create Stub for SMS Message Check call

General

ID: TA46

Name: Create Stub for SMS Message Check call

Description: Create a screen that will ask for a phone number to use when the SMS Message Check call is eventually in place, a "launch" button that will eventually trigger the SMS Message authenticator. A set of fields that will allow manual input of results will also be provided. For the first pass, these values are the "stub" returns. Eventually, they will permit override in the event the real authenticator is not working.

Attachments:

Owner: Allen

Task

State: Defined

Blocked: false

Ready: false

Blocked Reason:

Estimate: 1.5 Hours

To Do: 1.5 Hours

Work Product: US23: Capture a Packge of Raw Authenication Results

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:16 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA47: Create Stub for Challenge Question call

General

ID: TA47

Name: Create Stub for Challenge Question call

Tags:

Description: Create a screen that will ask ask one or more challenge questions and accept answers. For the first pass,

these values are the "stub" returns. Eventually, they will permit override in the event the real

authenticator is not working.

Attachments:

Owner:	Allen		
Task			
State:	Defined	Blocked:	false
Ready:	false	Blocked Reason:	
Estimate:	2.0 Hours		
To Do:	2.0 Hours		
Work Product:	US23: Capture a Packge of Raw Authenication Results		
Confidential Prove	enSecure Solutions, LLC		2013-07-28 09:16:16 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems TA48: Execute raw authentication results capture sequence General ID: TA48 Name: Execute raw authentication results capture sequence Tags: Description: Walk through all of the authenticators (which will initially be stubs, but will eventually be replaced with "real" calls) and capture the results from authenticators. Attachments: Owner: Allen Task State: Defined Blocked: false Ready: false Blocked Reason: Estimate: 8.0 Hours To Do: 8.0 Hours Work Product: US23: Capture a Packge of Raw Authenication Results Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

TA18: Save raw authentication results to data file. General ID: TA18 Name: Save raw authentication results to data file. Tags: Description: Write the complete set of authentication scores to a file. These will be retrieved in a subsequent story and combined with environment parameters to define a test/use case. Attachments: Owner: Allen Task State: Defined Blocked: false

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

Ready: false Blocked Reason:

Estimate: 8.0 Hours

To Do: 8.0 Hours

Work Product: US23: Capture a Packge of Raw Authenication Results

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems US29: Generate Test/Use Cases by Multiplexing Environmental Factors General ID: US29 Name: Generate Test/Use Cases by Multiplexing Environmental Factors Tags: Description: As the Lead Experimenter, I need to generate test case datasets from the raw authentication packages So that we can perform meaningful analysis on a sufficiently large result set. For each package of raw authentication results, we will generate a set of test/use cases by creating permutations of the allowable environment variables and copying the authentication results. Attachments: Owner: Stephen Hierarchy Parent: US20: (EPIC) Capture Baseline Data Schedule Blocked: false State: Defined Ready: false Blocked Reason: Iteration: Sprint 2 Plan Est: 16.0 Points Task Est: 16.0 Hours To Do: 16.0 Hours Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems TA55: Clone a baseline case many times with different permutations of environment factors General ID: TA55 Name: Clone a baseline case many times with different permutations of environment factors Tags: Description: For a given baseline case, store many test/use case records using copies of the original authenticator scores, but many different permutations of the environmental factors. Attachments: Owner: Allen

Task			
State:	Defined	Blocked:	false
Ready:	false	Blocked Reason:	
Estimate:	16.0 Hours		
To Do:	16.0 Hours		
Work Product: US29: Generate Test/Use Cases by Multiplexing Environmental Factors			
Confidential ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM			2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

US19: Process a Single Batch Test/Use Case

General

ID: US19

Name: Process a Single Batch Test/Use Case

Tags:

Description: As an Experimental Tester,

I need to be able to initiate the processing of one stored test case

so that I can generate test results for later evaluation.

This user story focuses focuses on the processing steps required to actually run through a single batch-mode use/test case. (Another story will worry about triggering the full set of stored cases.)

Attachments:

Owner: Stephen

Hierarchy

Parent: US21: (EPIC) Tune Thresholds

Schedule

State: Defined Blocked: false

Ready: false Blocked Reason:

Iteration: Sprint 2

Plan Est: 18.0 Points Task Est: 18.0 Hours

To Do: 18.0 Hours

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA57: Create stub for RMM call

General

ID: TA57

Name: Create stub for RMM call

Tags:

2013-07-28 09:16:17 PM

Confidential -- ProvenSecure Solutions, LLC

Description: First, let's get the processing sequences down, then we'll go back and get "real" results later. This stub, in addition to accepting the set of authenticator scores upon which it will act, should include some mechanism for altering its output either randomly, or controlled by an "extra" input.

Attachments:

Owner: Allen

Task

State: Defined Blocked: false

Ready: false Blocked Reason:

Estimate: 4.0 Hours

To Do: 4.0 Hours

Work Product: US19: Process a Single Batch Test/Use Case

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems TA64: Create stub for threshold calculator General ID: TA64 Name: Create stub for threshold calculator Description: The threshold calculator will accept as input all of the environmental risk factors and will return acceptable threshold" information. While we're still working out the details of what fomulae to put here, we'll begin with a stub that simply returns constants. Attachments: Owner: Allen Task State: Defined Blocked: false Ready: false Blocked Reason: Estimate: 2.0 Hours To Do: 2.0 Hours Work Product: US19: Process a Single Batch Test/Use Case Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems TA39: Accept scenario input and run through processing General ID: TA39 Name: Accept scenario input and run through processing Tags:

Description: The test case input is accepted, any pre-processing involving application of environmental risk ratings is performed, the RMM (stub) is called with the first authenticators. Based on results from the RMM, we compare the results against our acceptance criteria as modulated by the threshold calculator, and either complete processing with a "yes", a "no", or call RMM again with an additional authenticator -- unless we've used them all, in which case we end with a "no". Finally our post-processing determination of final "yes" or "no" is performed.

Attachments:

Owner: Allen

Task

State: Defined Blocked: false

Ready: false Blocked Reason:

Estimate: 8.0 Hours To Do: 8.0 Hours

Work Product: US19: Process a Single Batch Test/Use Case

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA58: Save test results to output file

General

ID: TA58

Name: Save test results to output file

Tags:

Description: The results of the test, along with the input parameters that generated the results should be written to an

output file for later evaluation. Test results should include some indication of which/how many

authenticators were required to reach a determination.

Attachments:

Owner: Allen

Task

State: Defined Blocked: false

Ready: false Blocked Reason:

Estimate: 4.0 Hours To Do: 4.0 Hours

Work Product: US19: Process a Single Batch Test/Use Case

Confidential -- ProvenSecure Solutions. LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

US18: Batch Processing of All Test/Use Cases

General

ID: US18

Name: Batch Processing of All Test/Use Cases

7/28/2013 9:16 PM 10 of 11

Tags:

Description: As the Lead Researcher,

I need to be able to initiate processing of the full set of use/test cases

so that I can generate test results for later evaluation.

This user story "finishes" the single batch case story. It involves iteratively reading test case info from its

file/database source, processing.

Attachments:

Owner: Stephen

Hierarchy

Parent: US21: (EPIC) Tune Thresholds

Schedule

State: Defined Blocked: false

Ready: false Blocked Reason:

Iteration: Sprint 2

Plan Est: 4.0 Points Task Est: 4.0 Hours

To Do: 4.0 Hours

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM

DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems

TA38: Loop through use/test case dataset and run each through processing.

General

ID: TA38

Name: Loop through use/test case dataset and run each through processing.

Tags:

Description: Open the dataset file, read and process each record, storing the results of each test in the designated

output location.

Attachments:

Owner: Allen

Task

State: Defined Blocked: false

Ready: false Blocked Reason:

Estimate: 4.0 Hours

To Do: 4.0 Hours

Work Product: US18: Batch Processing of All Test/Use Cases

Confidential -- ProvenSecure Solutions, LLC 2013-07-28 09:16:17 PM