



12.2 Smack Test Specification

Test ID	Test Content	Pre-condition	Test procedure	Measurement item	Pass determination	Test Result
STC1	This test confirms that SMACK rule is loaded in the system	1. System Power ON 2. Connect the laptop with System	(1) Check SMACK is loaded in system after boot time successfully	Check the Smack rules are loaded	We can see that Smack rules are loaded success in our system	Example: PASS (Because we can see Smack rules are loaded in our system as Pass determination cell)
STC2	This test confirms that SMACK is running in Enforcement mode	1. System Power ON 2. Connect the laptop with System	(1) Check SMACK mode is running in system	Check SMACK mode	Enforcement mode	FAIL (example: we check SMACK is Permissive mode instead of Enforce mode of Pass determination cell)
STC3	This test confirms that system has Smack auditing of security events	SMACK is running in Enforcement mode	(1) Check kernel configuration for Audit log (2) Check Smack log in system	(A) Kernel config for audit log (1) (B) Smack Log	Config for audit is eanbled (1) We see Smack log (2)	
STC4	This test confirms that System processes have label different with user processes	1. System Power ON 2. Connect the laptop with System	(1) Check labels of System processes (2) Check labels of User processes	(A) Has labels of System processes (B) Has labels of User processes	We don't have any same label between (A) and (B)	
STC5	This test confirms that System will accept when the process read a file follow SMACK Rule	SMACK is running in Enforcement mode	(1) Check and choose a SMACK rule in System which the subject can read the object (2) Find the process has the label is subject, Find the file has label is object in (1) (3) Perform the process in (2) read content of the file in (2)	(A) Check the process can read the file or not (3)	The process read content of file success. We don't have any denied log for this action	



STC6	This test confirms that System will deny when the process read a file is not accepted by SMACK Rule	SMACK is running in Enforcement mode	(1) Perform any operation that is not permitted by SMACK rule (2) Check Smack log for action in (1)	(A) Check result of (1) (B) Check Smack log of (2)	(A) System deny action (B) See denied log of SMACK	
STC7	This test confirms that System doesn't contain any rules that allow the floor label to label of SMACK rule files	SMACK is running in Enforcement mode	(1) Perform any operation that read a file with label of all SMACK rule files (2) Check Smack log for action in (1) (3) Perform any operation that read to all SMACK rule files (4) Check Smack log for action in (3) (5) Check whether rule floor can access to Privileged	(A) Check result of (1) (B) Check Smack log of (2) (C) Check result of (3) (C) Check Smack log of (4) (E) Check result of (5)	(A) Can't read SMACK label (B) Check Smack log denied of (2) (C) Permission denied of (3) (D) Check Smack log denied of (4) (E) Doesn't see any Smack for (5)	
STC8	Students create more Test cases based on their understand about SMACK function and 7 Example Test cases above	

