



Test Report Document For Data Integrity

Tested By	ViCarePlus Team, www.vicareplus.com
Tested On	20/09/2010
Total number of testcases	6
Number of testcases passed	6
Number of testcases failed	0

FINAL RULE:

Final Rule Text: §170.302(s)(1) Create a message digest in accordance with the standard specified in 170.210(c). (2) Verify in accordance with the standard specified in 170.210(c) upon receipt of electronically exchanged health information that such information has not been altered.(3) Detection. Detect the alteration of audit logs.

§170.210(c)- Regulatory Referenced Standard : Verification that electronic health information has not been altered in transit. Standard. A hashing algorithm with a security strength equal to or greater than SHA-1 (Secure Hash Algorithm (SHA-1) as specified by the National Institute of Standards and Technology (NIST) in FIPS PUB 180-3 (October, 2008) must be used to verify that electronic health information has not been altered

Hashing algorithm used for generating checksum: MD5

Test Case ID	Test Cases Checked	Output	Status
DTR170.302.s.1 – 1: Generate hash values			
DI_01	Select a patient and add an encounter for him.	The encounter is added.	PASS
DI_02	In Administration->Other->Logs,generate log with checksum for the insert action done in DI_01	The log is generated with checksum for activity done in DI_01.	PASS
DI_03	In Patient/Client->Visits->Visit History,edit the encounter details that was entered in DI_01	The encounter details are modified.	PASS
DI_04	In Administration->Other->Logs,generate log with checksum for the update action done in DI_03	The checksum for update function is generated	PASS
DTR170.302.s – 2: Compare hash values			
DI_05	Compare the hash value generated in the Generate hash value test using the original test data(generated in DI_02) and the hash value generated using the modified test data(generated in DI_04)	The two hash values are different. This helps in detecting the alteration of audit logs	PASS
DI_06	Manually,generate hash values for the data used in DI_01, using the same algorithm used during DTR170.302.s.1 -1. Compare the hash value with the one generated in DI_02.	The hash values are the same. This ensures that the electronic health information has not been altered in transit	PASS