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## Test Case Report for Digital Key Generation Smart Contract

Test No.	User Story (Redeemer)	Conditions	Steps	Expected Output	Accepted Output	Result
1	DigitalKeyGen eration – Valid digital key generation by admin	• initiateCheckIn == True• adminPKH == testAdmin• digitalKey == ""• tx signed by testAdmin	Create DigitalKeyGenerat ion redeemer with digitalKey="gener ated_digital_key_4 56"; build txInfo signed by admin; call validator	-	Update accepted and committed	<b>V</b> Pass
2	DigitalKeyGen eration – Reject without admin signature	• initiateCheckIn == True• adminPKH == testAdmin• tx signed by non- admin	Build txInfo signed by otherPkh; apply DigitalKeyGenerat ion; call validator	Validator rejects update due to missing admin signature	Update rejected	<b>V</b> Pass
3	DigitalKeyGen eration – Reject when check-in not initiated	• initiateCheckIn == False	Attempt DigitalKeyGenerat ion on datum with initiateCheckIn=Fa lse; call validator	check-in not yet	Update rejected	<b>V</b> Pass
4	DigitalKeyGen eration – Reject when key already exists	• digitalKey != ""	Attempt DigitalKeyGenerat ion on datum where digitalKey is already set; call validator	Validator rejects update due to existing digitalKey	Update rejected	<b>V</b> Pass
5	DigitalKeyVali dation – Valid digital key validation	• digitalKey != ""• isDigitalKeyValid ated == False	Apply DigitalKeyValidati on to set isDigitalKeyValidat ed=True; call validator	Validator allows update; sets isDigitalKeyValid ated=True	Update accepted and committed	<b>V</b> Pass
6	DigitalKeyVali dation – Reject when digital key not generated	• digitalKey == ""	Attempt DigitalKeyValidati on on datum with no digitalKey; call validator	Validator rejects validation due to missing digitalKey	Update rejected	<b>V</b> Pass

7	DigitalKeyVali	• digitalKey != ""•	Apply	Validator rejects	Update	Pass
	dation – Reject	redeemer	DigitalKeyValidati	update due to	rejected	
	when	leaves	on but leave	isDigitalKeyValid		
	validation flag	isDigitalKeyValid	isDigitalKeyValidat	ated not set to		
	not set	ated == False	ed=False; call	True		
			validator			

## Screenshot

```
Running 1 test suites...

Test suite digital-key-test: RUNNING...

HGE2 Hotel Guest Experience Validator Tests

DigitalKeyGeneration Redeemer

Valid digital key generation by admin: OK

Reject generation without admin signature: OK

Reject generation when check-in not initiated: OK

Reject generation when key already exists: OK

DigitalKeyValidation Redeemer

Valid digital key validation: OK

Reject validation when digital key not generated: OK

Reject when validation flag not set to true: OK

All 7 tests passed (0.00s)

Test suite digital-key-test: PASS
```