

Unit Test Report for DDLS System

- Test Cases Specification
- Test Summary Report

Project Team
6 team

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Table of Contents

- 1 [Introduction](#)
- 1.1 [Objectives](#)
- 1.2 [References](#)
- 2 [Unit test case specification](#)
- 2.1 [Test case specification identifier](#)
- 2.2 [Test items](#)
- 2.3 [Input specifications](#)
- 2.4 [state specifications](#)
- 2.5 [Output specifications](#)
- 3 [Environmental needs](#)
- 4 [Unit test summary report](#)
- 4.1 [Test summary report identifier](#)
- 4.2 [Evaluation](#)

1 Introduction

1.1 Objectives

본 문서는 Digital Door Lock System의 Unit Test를 수행한 결과문서이다. 이 문서의 목적은 본 팀이 정의한 Unit을 Test하고 그 결과를 본 팀에게 통보하기 위함이다.

1.2 References

CUnit setup : <http://www.badprog.com/eclipse-cppunit-installation>

CUnit 사용 : <http://blog.naver.com/pippin2006?Redirect=Log&logNo=30086303110>

Test case 작성 : http://dslab.konkuk.ac.kr/Class/2013/13SE/ClassB/13SE_B.htm

2 Unit test case specification

2.1 Test case specification identifier

Identifier	Feature (Process ID in DFD)	Valid/ Invalid value
DDL.UTC_000_000	password_statement==STATE_PW_UNSET/(input_value==INPUT_0 ... input_value==INPUT_9)	password_statement==STATE_PW_SET_1
DDL.UTC_000_001	password_statement==STATE_PW_UNSET/input_value==INPUT_LOCK_BUTTON	password_statement==STATE_PW_UNSET
DDL.UTC_000_002	password_statement==STATE_PW_UNSET/input_value==INPUT_KEY_SENSOR	password_statement==STATE_PW_UNSET
DDL.UTC_000_003	password_statement==STATE_PW_UNSET/input_value==INPUT_COVRE_SENSOR_OPEN	password_statement==STATE_PW_UNSET
DDL.UTC_000_004	password_statement==STATE_PW_UNSET/input_value==INPUT_COVER_SENSOR_CLOSE	password_statement==STATE_PW_UNSET
DDL.UTC_000_005	password_statement==STATE_PW_UNSET/input_value==INPUT_DOOR_SENSOR	password_statement==STATE_PW_UNSET
DDL.UTC_000_006	password_statement==STATE_PW_SET_1/(input_value==INPUT_0 ... input_value==INPUT_9)	password_statement==STATE_PW_SET_2
DDL.UTC_000_007	password_statement==STATE_PW_SET_1/input_value==INPUT_LO	password_statement==STATE_PW_SET_1

	CK_BUTTON	
DDL.UTC_000_008	password_statement== STATE_PW_ SET _1/input_value==INPUT_KE Y_SENSOR	password_statement==STATE_PW_I SET_1
DDL.UTC_000_009	password_statement== STATE_PW_I SET _1/input_value==INPUT_CO VER_SENSOR_OPEN	password_statement==STATE_PW_ SET_1
DDL.UTC_000_010	password_statement== STATE_PW_ SET _1/input_value==INPUT_CO VER_SENSOR_CLOSE	password_statement==STATE_PW_ SET_1
DDL.UTC_000_011	password_statement== STATE_PW_ SET _1/input_value==INPUT_DO OR_SENSOR	password_statement==STATE_PW_ SET_1
DDL.UTC_000_012	password_statement== STATE_PW_ SET _2/(input_value==INPUT_0 ... input_value==INPUT_9)	password_statement==STATE_PW_ SET_3
DDL.UTC_000_013	password_statement== STATE_PW_ SET _2/input_value==INPUT_LO CK_BUTTON	password_statement==STATE_PW_ SET_2
DDL.UTC_000_014	password_statement== STATE_PW_ SET _2/input_value==INPUT_KE Y_SENSOR	password_statement==STATE_PW_ SET_2
DDL.UTC_000_015	password_statement== STATE_PW_ SET _2/input_value==INPUT_CO VER_SENSOR_OPEN	password_statement==STATE_PW_ SET_2
DDL.UTC_000_016	password_statement== STATE_PW_ SET _2/input_value==INPUT_CO VER_SENSOR_CLOSE	password_statement==STATE_PW_ SET_2
DDL.UTC_000_017	password_statement== STATE_PW_ SET _2/input_value==INPUT_DO OR_SENSOR	password_statement==STATE_PW_ SET_2
DDL.UTC_000_018	password_statement==STA TE_PW_ SET _3/(input_value==INPUT_0 ... input_value==INPUT_9)	password_statement==STATE_ SET

DDL.UTC_000_019	password_statement== STATE_PW_ SET _3/input_value==INPUT_LO CK_BUTTON	password_statement==STATE_PW_SET_3
DDL.UTC_000_020	password_statement== STATE_PW_ SET _3/input_value==INPUT_KE Y_SENSOR	password_statement==STATE_PW_SET_3
DDL.UTC_000_021	password_statement== STATE_PW_ SET _3/input_value==INPUT_CO VER_SENSOR_OPEN	password_statement==STATE_PW_SET_3
DDL.UTC_000_022	password_statement== STATE_PW_ SET _3/input_value==INPUT_CO VER_SENSOR_CLOSE	password_statement==STATE_PW_SET_3
DDL.UTC_000_023	password_statement== STATE_PW_ SET _3/input_value==INPUT_DO OR_SENSOR	password_statement==STATE_PW_SET_3
DDL.UTC_001_000	password_statement==STA TE_PW_SET/(input_value= =INPUT_0 ... input_value= INPUT_9)	password_statement==STATE_PW_INPUT_1 or password_statement==STATE_PW_W_1
DDL.UTC_001_001	password_statement==STA TE_PW_INPUT_1/(input_val ue==INPUT_0 ... input_valu e==INPUT_9)	password_statement==STATE_PW_INPUT_2 or password_statement==STATE_PW_W_2
DDL.UTC_001_002	password_statement==STA TE_PW_INPUT_1/input_valu e==INPUT_COVER_SENS OR_CLOSE	password_statement==STATE_PW_CANCEL
DDL.UTC_001_003	password_statement==STA TE_PW_INPUT_2/(input_val ue==INPUT_0 ... input_valu e==INPUT_9)	password_statement==STATE_PW_INPUT_3 or password_statement==STATE_PW_W_3
DDL.UTC_001_004	password_statement==STA TE_PW_INPUT_2/input_valu e==INPUT_COVER_SENS OR_CLOSE	password_statement==STATE_PW_CANCEL
DDL.UTC_001_005	password_statement==STA TE_PW_INPUT_3/(input_val ue==INPUT_0 ... input_valu e==INPUT_9)	password_statement==STATE_PW_RIGHT or password_statement==STATE_PW_WRONG
DDL.UTC_001_006	password_statement==STA	password_statement==STATE_PW_CANCEL

	TE_PW_INPUT_3/input_value==INPUT_COVER_SENSOR_CLOSE	
DDL.UTC_002_000	password_statement==STATE_PW_INPUT_1/tick==2000	password_statement==STATE_PW_CANCEL
DDL.UTC_002_001	password_statement==STATE_PW_INPUT_1/lock_statement==STATE_LOCK_OPEN	password_statement==STATE_PW_CANCEL
DDL.UTC_002_002	password_statement==STATE_PW_INPUT_2/tick==2000	password_statement==STATE_PW_CANCEL
DDL.UTC_002_003	password_statement==STATE_PW_INPUT_2/lock_statement==STATE_LOCK_OPEN	password_statement==STATE_PW_CANCEL
DDL.UTC_002_004	password_statement==STATE_PW_INPUT_3/tick==2000	password_statement==STATE_PW_CANCEL
DDL.UTC_002_005	password_statement==STATE_PW_INPUT_3/lock_statement==STATE_LOCK_OPEN	password_statement==STATE_PW_CANCEL
DDL.UTC_003_000	lock_statement == STATE_LOCK_CLOSE / input_value == INPUT_LOCK_BUTTON	enable
DDL.UTC_003_001	lock_statement == STATE_LOCK_CLOSE / input_value == INPUT_KEY_SENSOR	enable
DDL.UTC_003_002	lock_statement == STATE_LOCK_CLOSE / input_value == INPUT_COVER_SENSOR_OPEN	disable
DDL.UTC_003_003	lock_statement == STATE_LOCK_CLOSE / input_value == INPUT_COVER_SENSOR_CLOSE	disable
DDL.UTC_003_004	lock_statement == STATE_LOCK_CLOSE / input_value ==	disable

	INPUT_DOOR_SENSOR	
DDL.UTC_003_005	lock_statement == STATE_LOCK_CLOSE / password_statement == ==STATE_PW_UNSET	disable
DDL.UTC_003_006	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_SET	disable
DDL.UTC_003_007	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_INPUT_1	disable
DDL.UTC_003_008	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_INPUT_2	disable
DDL.UTC_003_009	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_INPUT_3	disable
DDL.UTC_003_010	lock_statement == STATE_LOCK_CLOSE / password_statement == ==STATE_PW_RIGHT	enable
DDL.UTC_003_011	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_W_1	disable
DDL.UTC_003_012	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_W_2	disable
DDL.UTC_003_013	lock_statement == STATE_LOCK_CLOSE / password_statement == STATE_PW_W_3	disable
DDL.UTC_003_014	lock_statement = STATE_LOCK_CLOSE / password_statement = STATE_PW_WRONG	disable
DDL.UTC_003_015	lock_statement == STATE_LOCK_CLOSE / password_statement = =STATE_PW_CANCEL	disable

DDL.UTC_003_016	lock_statement == STATE_LOCK_OPEN / input_value== INPUT_LOCK_BUTTON	disable
DDL.UTC_003_017	lock_statement = STATE_LOCK_OPEN / input_value= INPUT_KEY_SENSOR	enable
DDL.UTC_003_018	lock_statement = STATE_LOCK_OPEN / input_value= INPUT_COVER_SENSOR_OPEN	disable
DDL.UTC_003_019	lock_statement = STATE_LOCK_OPEN / input_value= INPUT_COVER_SENSOR_CLOSE	disable
DDL.UTC_003_020	lock_statement == STATE_LOCK_OPEN / input_value== INPUT_DOOR_SENSOR	ENABLE
DDL.UTC_003_021	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_UNSET	disable
DDL.UTC_003_022	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_SET	disable
DDL.UTC_003_023	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_INPUT_1	disable
DDL.UTC_003_024	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_INPUT_2	disable
DDL.UTC_003_025	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_INPUT_3	disable
DDL.UTC_003_026	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_RIGHT	enable

DDL.UTC_003_027	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_W_1	enable
DDL.UTC_003_028	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_W_2	disable
DDL.UTC_003_029	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_W_3	disable
DDL.UTC_003_030	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_WRONG	disable
DDL.UTC_003_031	lock_statement == STATE_LOCK_OPEN / password_statement== STATE_PW_CANCEL	disable
DDL.UTC_004_000	lock_statement == STATE_LOCK_CLOSE / input_value== INPUT_LOCK_BUTTON	enable
DDL.UTC_004_001	lock_statement == STATE_LOCK_CLOSE / input_value== INPUT_KEY_SENSOR	enable
DDL.UTC_004_002	lock statement == STATE_LOCK_CLOSE / input_value == INPUT_COVER_SENSOR_ OPEN	disable
DDL.UTC_004_003	lock statement == STATE_LOCK_CLOSE / input_value == INPUT_COVER_SENSOR_ CLOSE	disable
DDL.UTC_004_004	lock_statement == STATE_LOCK_CLOSE / input_value == INPUT_DOOR_SENSOR	disable
DDL.UTC_004_005	lock_statement == STATE_LOCK_CLOSE / input_value == INPUT_DOOR_SENSOR	disable

	tick = 300	
DDL.UTC_004_006	lock_statement == STATE_LOCK_OPEN / input_value== INPUT_LOCK_BUTTON	disable
DDL.UTC_004_007	lock_statement == STATE_LOCK_OPEN / input_value== INPUT_KEY_SENSOR	enable
DDL.UTC_004_008	lock_statement == STATE_LOCK_OPEN / input_value == INPUT_COVER_SENSOR_OPEN	disable
DDL.UTC_004_009	lock_statement == STATE_LOCK_OPEN / input_value == INPUT_COVER_SENSOR_CLOSE	disable
DDL.UTC_004_010	lock_statement == STATE_LOCK_OPEN / input_value == INPUT_DOOR_SENSOR	enable
DDL.UTC_004_011	lock_statement == STATE_LOCK_OPEN / input_value == INPUT_DOOR_SENSOR tick = 300	disable
DDL.UTC_005_000	lock_statement == STATE_LOCK_OPEN / enable	lock_statement == STATE_LOCK_OPEN
DDL.UTC_005_001	lock_statement = STATE_LOCK_OPEN / disable	lock_statement == STATE_LOCK_CLOSE
DDL.UTC_005_002	lock_statement = STATE_LOCK_CLOSE / enable	lock_statement == STATE_LOCK_OPEN
DDL.UTC_005_003	lock_statement = STATE_LOCK_CLOSE / disable	lock_statement == STATE_LOCK_CLOSE
DDL.UTC_006_000	password_statement==STATE_PW_INPUT_1	enable to alarm1
DDL.UTC_006_001	password_statement==STATE_PW_INPUT_2	enable to alarm1

DDL.UTC_006_002	password_statement==STATE_PW_INPUT_3	enable to alarm1
DDL.UTC_006_003	password_statement==STATE_PW_RIGHT	enable to alarm1
DDL.UTC_006_004	password_statement==STATE_PW_CANCEL	enable to alarm3
DDL.UTC_006_005	password_statement==STATE_PW_WRONG	enable to alarm2

2.2 Test items

<CUnit>의 console_test를 사용하였다.

2.3 Input specifications

input_value	specification
INPUT_0(~9)	숫자버튼 0(~9)이 눌렸다.
INPUT_LOCK_BUTTON	잠금버튼이 눌렸다.
INPUT_KEY_SENSOR	키가 입력됐다.
INPUT_COVER_SENSOR_CLOSE	커버가 닫혔다.
INPUT_COVER_SENSOR_OPEN	커버가 열렸다.
INPUT_DOOR_SENSOR_OPEN	문이 열렸다.
INPUT_DOOR_SENSOR_CLOSE	문이 닫혔다.
tick==xxxx	tick이 xxxx 들어 왔다.

2.4 state specifications

password_state	specification
STATE_PW_UNSET	비밀번호 미설정 상태
STATE_PW_SET_1	비밀번호 1개 설정 상태
STATE_PW_SET_2	비밀번호 2개 설정 상태
STATE_PW_SET_3	비밀번호 3개 설정 상태
STATE_PW_SET	비밀번호 설정 완료 상태 (=비밀번호 입력대기 상태)

STATE_PW_INPUT_1	비밀번호 1개 맞춤 상태
STATE_PW_INPUT_2	비밀번호 2개 맞춤 상태
STATE_PW_INPUT_3	비밀번호 3개 맞춤 상태
STATE_PW_RIGHT	비밀번호 모두 맞춤 상태
STATE_PW_W_1	비밀번호 1개 틀림 상태
STATE_PW_W_2	비밀번호 2개 틀림 상태
STATE_PW_W_3	비밀번호 3개 틀림 상태
STATE_PW_WRONG	비밀번호 모두 틀림 상태
STATE_PW_CANCEL	비밀번호 입력 취소 상태

lock_state	specification
STATE_LOCK_OPEN	잠금장치 열림 상태
STATE_LOCK_CLOSE	잠금장치 닫힘 상태

2.5 Output specifications

ouput_value	specification
enable	알람 : 알람을 작동한다. 백라이트 : 백라이트를 작동한다. 잠금장치 : 잠금장치를 오픈한다.
disable	알람 : 알람을 작동하지 않는다. 백라이트 : 백라이트를 작동하지 않는다. 잠금장치 : 잠금장치를 잠근다.

3 Environmental needs

Eclipse, MinGW

4 Unit test summary report

4.1 Test summary report identifier

Identifier	statement	input	expected	real output	test result
DDL_UTC_000_000	password_state ==STATE_PW_	input_value==INPUT_0	password_state ==STATE_PW_	password_state==STATE_P	passed

	UNSET		SET_1	W_SET_1	
DDL.UTC_000_001	password_state ==STATE_PW_UNSET	input_value==INPUT_LOCK_BUTTON	password_state ==STATE_PW_UNSET	password_state ==STATE_PW_UNSET	passed
DDL.UTC_000_002	password_state ==STATE_PW_UNSET	input_value==INPUT_KEY_SENSOR	password_state ==STATE_PW_UNSET	password_state ==STATE_PW_UNSET	passed
DDL.UTC_000_003	password_state ==STATE_PW_UNSET	input_value==INPUT_COVER_SENSOR_OPEN	password_state ==STATE_PW_UNSET	password_state ==STATE_PW_UNSET	passed
DDL.UTC_000_004	password_state ==STATE_PW_UNSET	input_value==INPUT_COVER_SENSOR_CLOSE	password_state ==STATE_PW_UNSET	password_state ==STATE_PW_UNSET	passed
DDL.UTC_000_005	password_state ==STATE_PW_UNSET	input_value==INPUT_DOOR_SENSOR_OPEN	password_state ==STATE_PW_UNSET	password_state ==STATE_PW_UNSET	passed
DDL.UTC_000_006	password_state ==STATE_PW_SET_1	input_value==INPUT_0	password_state ==STATE_PW_SET_2	password_state ==STATE_PW_SET_2	passed
DDL.UTC_000_007	password_state ==STATE_PW_SET_1	input_value==INPUT_LOCK_BUTTON	password_state ==STATE_PW_SET_1	password_state ==STATE_PW_SET_1	passed
DDL.UTC_000_008	password_state ==STATE_PW_SET_1	input_value==INPUT_KEY_SENSOR	password_state ==STATE_PW_SET_1	password_state ==STATE_PW_SET_1	passed
DDL.UTC_000_009	password_state ==STATE_PW_SET_1	input_value==INPUT_COVER_SENSOR_OPEN	password_state ==STATE_PW_SET_1	password_state ==STATE_PW_SET_1	passed
DDL.UTC_000_010	password_state ==STATE_PW_SET_1	input_value==INPUT_COVER_SENSOR_CLOSE	password_state ==STATE_PW_SET_1	password_state ==STATE_PW_SET_1	passed
DDL.UTC_000_011	password_state ==STATE_PW_SET_1	input_value==INPUT_DOOR_SENSOR_CLOSE	password_state ==STATE_PW_SET_1	password_state ==STATE_PW_SET_1	passed
DDL.UTC_000_012	password_state ==STATE_PW_SET_2	input_value==INPUT_0	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed

DDL.UTC_000_013	password_state ==STATE_PW_SET_2	input_value==INPUT_LOCK_BUTTON	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed
DDL.UTC_000_014	password_state ==STATE_PW_SET_2	input_value==INPUT_KEY_SENSOR	password_state ==STATE_PW_SET_2	password_state ==STATE_PW_SET_2	passed
DDL.UTC_000_015	password_state ==STATE_PW_SET_2	input_value==INPUT_COVER_SENSOR_OPEN	password_state ==STATE_PW_SET_2	password_state ==STATE_PW_SET_2	passed
DDL.UTC_000_016	password_state ==STATE_PW_SET_2	input_value==INPUT_COVER_SENSOR_CLOSE	password_state ==STATE_PW_SET_2	password_state ==STATE_PW_SET_2	passed
DDL.UTC_000_017	password_state ==STATE_PW_SET_2	input_value==INPUT_DOOR_SENSOR_OPEN	password_state ==STATE_PW_SET_2	password_state ==STATE_PW_SET_2	passed
DDL.UTC_000_018	password_state ==STATE_PW_SET_3	input_value==INPUT_0	password_state ==STATE_PW_SET_4	password_state ==STATE_PW_SET_4	passed
DDL.UTC_000_019	password_state ==STATE_PW_SET_3	input_value==INPUT_LOCK_BUTTON	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed
DDL.UTC_000_020	password_state ==STATE_PW_SET_3	input_value==INPUT_KEY_SENSOR	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed
DDL.UTC_000_021	password_state ==STATE_PW_SET_3	input_value==INPUT_COVER_SENSOR_OPEN	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed
DDL.UTC_000_022	password_state ==STATE_PW_SET_3	input_value==INPUT_COVER_SENSOR_CLOSE	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed
DDL.UTC_000_023	password_state ==STATE_PW_SET_3	input_value==INPUT_DOOR_SENSOR_OPEN	password_state ==STATE_PW_SET_3	password_state ==STATE_PW_SET_3	passed
DDL.UTC_001_000	password_state ==STATE_PW_SET	input_value==INPUT_0	password_state ==STATE_PW_W_1	password_state ==STATE_PW_W_1	passed
DDL.UTC_001_001	password_state ==STATE_PW_I	input_value==INPUT_0	password_state ==STATE_PW_	password_state ==STATE_P	passed

	NPUT_1		W_2	W_W_2	
DDL_UTC_001_002	password_state ==STATE_PW_I NPUT_1	input_value==I NPUT_COVE R_SENSOR_ CLOSE	password_state ==STATE_PW_ SET	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_001_003	password_state ==STATE_PW_I NPUT_2	input_value==I NPUT_0	password_state ==STATE_PW_ _W_3	password_stat e==STATE_P W_W_3	passed
DDL_UTC_001_004	password_state ==STATE_PW_I NPUT_2	input_value==I NPUT_COVE R_SENSOR_ CLOSE	password_state ==STATE_PW_ SET	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_001_005	password_state ==STATE_PW_ W_3	input_value==I NPUT_0	password_state ==STATE_PW_ WRONG	STATE_PW_W RONG	passed
DDL_UTC_001_006	password_state ==STATE_PW_ W_3	input_value==I NPUT_COVE R_SENSOR_ CLOSE	password_state ==STATE_PW_ SET	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_002_000	password_state ==STATE_PW_I NPUT_1	tick==2000	password_state ==STATE_PW_ CANCEL	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_002_001	password_state ==STATE_PW_I NPUT_1	lock_state==S TATE_LOCK_ OPEN	password_state ==STATE_PW_ CANCEL	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_002_002	password_state ==STATE_PW_I NPUT_2	tick==2000	password_state ==STATE_PW_ CANCEL	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_002_003	password_state ==STATE_PW_I NPUT_2	lock_state==S TATE_LOCK_ OPEN	password_state ==STATE_PW_ CANCEL	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_002_004	password_state ==STATE_PW_I NPUT_3	tick==2000	password_state ==STATE_PW_ CANCEL	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_002_005	password_state ==STATE_PW_I NPUT_3	lock_state==S TATE_LOCK_ OPEN \	password_state ==STATE_PW_ CANCEL	password_stat e==STATE_P W_CANCEL	passed
DDL_UTC_003_000	lock_state==ST ATE_LOCK_CL OSE	input_value==I NPUT_LOCK_ BUTTON	enable	enable	passed
DDL_UTC_003_001	lock_state==ST ATE_LOCK_CL	input_value==I NPUT_KEY_S	enable	enable	passed

	OSE	ENSOR			
DDL_UTC_003_002	lock_state==STATE_LOCK_CLOSE	input_value==INPUT_COVER_SENSOR_OPEN	disable	disable	passed
DDL_UTC_003_003	lock_state==STATE_LOCK_CLOSE	input_value==INPUT_COVER_SENSOR_CLOSE	disable	disable	passed
DDL_UTC_003_004	lock_state==STATE_LOCK_CLOSE	input_value==INPUT_DOOR_SENSOR_OPEN	disable	disable	passed
DDL_UTC_003_005	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_UNSET	disable	disable	passed
DDL_UTC_003_006	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_SET	disable	disable	passed
DDL_UTC_003_007	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_INPUT_1	disable	disable	passed
DDL_UTC_003_008	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_INPUT_2	disable	disable	passed
DDL_UTC_003_009	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_INPUT_3	disable	disable	passed
DDL_UTC_003_010	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_RIGHT	enable	enable	passed
DDL_UTC_003_011	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_W_1	disable	disable	passed
DDL_UTC_003_012	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_W_2	disable	disable	passed
DDL_UTC_003_013	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_W_3	disable	disable	passed
DDL_UTC_003_014	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_WRONG	disable	disable	passed

DDL_UTC_003_015	lock_state==STATE_LOCK_CLOSE	password_state==STATE_PASSWORD_CANCEL	disable	disable	passed
DDL_UTC_003_016	lock_state==STATE_LOCK_OPEN	input_value==INPUT_LOCK_BUTTON	disable	disable	passed
DDL_UTC_003_017	lock_state==STATE_LOCK_OPEN	input_value==INPUT_KEY_SENSOR	enable	enable	passed
DDL_UTC_003_018	lock_state==STATE_LOCK_OPEN	input_value==INPUT_COVER_SENSOR_OPEN	disable	disable	passed
DDL_UTC_003_019	lock_state==STATE_LOCK_OPEN	input_value==INPUT_COVER_SENSOR_CLOSE	disable	disable	passed
DDL_UTC_003_020	lock_state==STATE_LOCK_OPEN	input_value==INPUT_DOOR_SENSOR_CLOSE	enable	enable	passed
DDL_UTC_003_021	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_UNSET	disable	disable	passed
DDL_UTC_003_022	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_SET	disable	disable	passed
DDL_UTC_003_023	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_INPUT_1	disable	disable	passed
DDL_UTC_003_024	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_INPUT_2	disable	disable	passed
DDL_UTC_003_025	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_INPUT_3	disable	disable	passed
DDL_UTC_003_026	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_RIGHT	enable	enable	passed
DDL_UTC_003_027	lock_state==STATE_LOCK_OPEN	password_state==STATE_PASSWORD_W_1	disable	disable	passed
DDL_UTC_003	lock_state==STATE_LOCK_OPEN	password_state	disable	disable	passed

_028	ATE_LOCK_OP EN	e==STATE_P W_W_2			
DDL.UTC_003 _029	lock_state==ST ATE_LOCK_OP EN	password_stat e==STATE_P W_W_3	disable	disable	passed
DDL.UTC_003 _030	lock_state==ST ATE_LOCK_OP EN	password_stat e==STATE_P W_WRONG	disable	disable	passed
DDL.UTC_003 _031	lock_state==ST ATE_LOCK_OP EN	password_stat e==STATE_P W_CANCEL	disable	disable	passed
DDL.UTC_004 _000	lock_state==ST ATE_LOCK_CL OSE	input_value==I NPUT_LOCK_ BUTTON	enable	enable	passed
DDL.UTC_004 _001	ock_state==ST ATE_LOCK_CL OSE	input_value==I NPUT_KEY_S ENSOR	enable	enable	passed
DDL.UTC_004 _002	ock_state==ST ATE_LOCK_CL OSE	input_value==I NPUT_COVE R_SENSOR_ OPEN	disable	disable	passed
DDL.UTC_004 _003	ock_state==ST ATE_LOCK_CL OSE	input_value==I NPUT_COVE R_SENSOR_ CLOSE	disable	disable	passed
DDL.UTC_004 _004	ock_state==ST ATE_LOCK_CL OSE	input_value==I NPUT_DOOR_ SENSOR_OP EN	disable	disable	passed
DDL.UTC_004 _005	ock_state==ST ATE_LOCK_CL OSE	tick==4000	disable	disable	passed
DDL.UTC_004 _006	lock_state==ST ATE_LOCK_OP EN	input_value==I NPUT_LOCK_ BUTTON	disable	disable	passed
DDL.UTC_004 _007	lock_state==ST ATE_LOCK_OP EN	input_value==I NPUT_KEY_S ENSOR	enable	enable	passed
DDL.UTC_004 _008	lock_state==ST ATE_LOCK_OP EN	input_value==I NPIT_COVER _SENSOR_O PEN	disable	disable	passed
DDL.UTC_004	lock_state==ST	input_value==I	disable	disable	passed

_009	ATE_LOCK_OP EN	NPIT_COVER _SENSOR_CL OSE			
DDL_UTC_004 _010	lock_state==ST ATE_LOCK_OP EN	input_value==I NPIT_DOOR_ SENSOR_CL OSE	disable	disable	passed
DDL_UTC_004 _011	lock_state==ST ATE_LOCK_OP EN	tick==4000	disable	disable	passed
DDL_UTC_005 _000	lock_state==ST ATE_LOCK_OP EN	enable	lock_state==ST ATE_LOCK_OP EN	lock_state==S TATE_LOCK_ OPEN	passed
DDL_UTC_005 _001	lock_state==ST ATE_LOCK_OP EN	disable	lock_state==ST ATE_LOCK_CL OSE	lock_state==S TATE_LOCK_C LOSE	passed
DDL_UTC_005 _002	lock_state==ST ATE_LOCK_CL OSE	enable	lock_state==ST ATE_LOCK_OP EN	lock_state==S TATE_LOCK_ OPEN	passed
DDL_UTC_005 _003	lock_state==ST ATE_LOCK_CL OSE	disable	lock_state==ST ATE_LOCK_CL OSE	lock_state==S TATE_LOCK_C LOSE	passed
DDL_UTC_006 _000	password_state ==STATE_PW_I NPUT_1	STATE_PW_I NPUT_1	h_alarm1==ON	h_alarm1==ON	passed
DDL_UTC_006 _001	password_state ==STATE_PW_I NPUT_2	STATE_PW_I NPUT_2	h_alarm1==ON	h_alarm1==ON	passed
DDL_UTC_006 _002	password_state ==STATE_PW_I NPUT_3	STATE_PW_I NPUT_3	h_alarm1==ON	h_alarm1==ON	passed
DDL_UTC_006 _003	password_state ==STATE_PW_ RIGHT	STATE_PW_R IGHT	h_alarm1==ON	h_alarm1==ON	passed
DDL_UTC_006 _004	password_state ==STATE_PW_ CANCEL	STATE_PW_C ANCEL	h_alarm3==ON	h_alarm3==ON	passed
DDL_UTC_006 _005	password_state ==STATE_PW_ WRONG	STATE_PW_ WRONG	h_alarm2==ON	h_alarm2==ON	passed

4.2 Evaluation

Total test case : 91개

passed : 91개 failed : 0개