

# System Test Report for PTS System

**Project Team**

**Team 2**

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## 1 Introduction

### 1.1 Objectives

본 문서는 2014년 2학기 Software Engineering (2014SE) 수업에서 개발한 Public Transportation System (PTS)

### 1.2 References

2014.T2.PTS.STP-1.0

## 2 System test case specification

### 2.1 Test case specification identifier

<Table 1 Test Result>참조

### 2.2 Test items

<Table 1 Test Result>참조

### 2.3 Input specifications

<Table 1 Test Result>참조

### 2.4 Output specifications

<Table 1 Test Result>참조

## 3 Environmental needs

## 4 System test summary report

### 4.1 Test summary report identifier

### 4.2 Evaluation

테스트 결과 정산기를 실행하자마자 정산시간이 아니라도 정산이 실행되는 경우가 있다.

지하철에서 버스로 환승 후 30초마다 100원씩 추가요금을 부과하는 과정이 잘못되어 계속 같은 값을 부과한다.

전날 탑승 태그 후 다음날 하차 태그를 할 경우 정산이 제대로 되지 않는다.

탑승 시 필요요금이 잘못된 값으로 초기화 된 경우가 있다.

## 5. STR

Test Case Identifier	Input specification	Output specification	Pass / Fail
PTS_STC_000_000	<프로그램 실행>		
PTS_STC_100_000	(BT)j, (MT)k	유효하지 않은 입력값	P
PTS_STC_200_000	(환승) (BT)q, 10sec (BT)a, 20sec (BT)q	(BT) 0원, 잔액 (BT) 1050원, 잔액	P P
PTS_STC_200_001	(환승)(BT)q, 10sec(BT)a, 20sec (MT)q	(BT) 0원, 잔액 (MT) 1050원, 잔액	P P
PTS_STC_200_002	(환승) (BT)q, 40sec (BT)a, 20sec (BT)q	(BT) 100원, 잔액 (BT) 1050원, 잔액	P P
PTS_STC_200_003	(환승) (BT)q, 40sec (BT)a, 10sec (MT)q	(BT) 0원, 잔액 (MT) 0원, 잔액	P P
PTS_STC_200_004	(환승) (BT)q, 40sec (BT)a, 10sec (MT)q	(BT) 100원, 잔액 (MT) 0원, 잔액	P P
PTS_STC_200_005	(BT)q, 10sec (BT)q, 10sec (BT)q	(BT) 1050원, 잔액 (BT) 1050원, 잔액	P P
PTS_STC_200_006	(BT)q, 10sec (BT)q, 10sec (MT)q	(BT) 1050원, 잔액 (MT) 1050원, 잔액	P P
PTS_STC_200_007	(BT)q, 10sec (BT)q, 10sec (BT)a	(BT) 1050원, 잔액 (BT) 0원, 잔액	P P
PTS_STC_200_008	(BT)q, 10sec (MT)q, 10sec (BT)q	(MT) 1050원, 잔액 (BT) 1250원, 잔액	P P

PTS_STC_200_009	(BT)q, 10sec (MT)q, 10sec (MT)q	(MT) 1050원, 잔액	P
		(MT) 1250원, 잔액	P
PTS_STC_200_010	(BT)q, 10sec (MT)q, 10sec (MT)a	(MT) 1050원, 잔액	P
		(MT) 0원, 잔액	P
PTS_STC_200_011	(MT)q, 10sec (BT)q, 10sec (BT)q	(BT) 1250원, 잔액	P
		(BT) 1050원, 잔액	P
PTS_STC_200_012	(MT)q, 10sec (BT)q, 10sec (BT)a	(BT) 1250원, 잔액	P
		(BT) 0원, 잔액	P
PTS_STC_200_013	(MT)q, 10sec (BT)q, 10sec (MT)q	(BT) 1250원, 잔액	P
		(MT) 1050원, 잔액	P
PTS_STC_200_014	(MT)q, 10sec (MT)q, 10sec (BT)q	(MT) 1250원, 잔액	P
		(BT) 1250원, 잔액	P
PTS_STC_200_015	(MT)q, 10sec (MT)q, 10sec (MT)q	(MT) 1250원, 잔액	P
		(MT) 1250원, 잔액	P
PTS_STC_200_016	(MT)q, 10sec (MT)q, 10sec (MT)s	(MT) 1250원, 잔액	P
		(MT) 300원, 잔액	P
PTS_STC_200_017	(MT)q, 10sec (MT)q, 10sec (MT)f	(MT) 1250원, 잔액	P
		(MT) 600원, 잔액	P
PTS_STC_200_018	(환승)(MT)q, 10sec (MT)s, 10sec(BT)q	(MT) 300원, 잔액	P
		(BT) 0원, 잔액	P
PTS_STC_200_019	(환승)(MT)q, 10sec (MT)s, 10sec(MT)e	(MT) 300원, 잔액	P
		(MT) 1050원, 잔액	P
PTS_STC_200_020	(환승)(MT)q, 10sec (MT)s, 20sec(BT)q	(MT) 300원, 잔액	P

		(BT) 1050원, 잔액	P
<b>PTS_STC_200_021</b>	(환승)(MT)q, 10sec (MT)f, 10sec(BT)q	(MT) 600원, 잔액 (BT) 0원, 잔액	P P
<b>PTS_STC_200_022</b>	(환승)(MT)q, 10sec (MT)f, 10sec(MT)q	(MT) 600원, 잔액 (MT) 1050원, 잔액	P P
<b>PTS_STC_200_023</b>	(환승)(MT)q, 10sec (MT)f, 20sec(BT)q	(MT) 600원, 잔액 (BT) 1050원, 잔액	P P
<b>PTS_STC_200_024</b>	(환승)(MT)q, 10sec (MT)f, 20sec(MT)q	(MT) 600원, 잔액 (MT) 1050원, 잔액	P P
<b>PTS_STC_300_000</b>	(BT)q, (BT)q	1050원 필요 (BT) X, 1050원	P
<b>PTS_STC_300_001</b>	(BT)q, (BT)q	1050원 필요 (BT) O, 0원	P
<b>PTS_STC_300_002</b>	(BT)q, (BT)q	1050원 필요 (BT) O, 150원	P
<b>PTS_STC_300_003</b>	(BT)q, (MT)q	1250원 필요 (MT) X, 1200원	P
<b>PTS_STC_300_004</b>	(BT)q, (MT)q	1250원 필요 (MT) O, 0원	P
<b>PTS_STC_300_005</b>	(BT)q, (MT)q	1250원 필요 (MT) O, 50원	P
<b>PTS_STC_300_006</b>	(BT)q, (BT)a, 10sec (MT)q	600원 필요 (MT) X, 500원	P
<b>PTS_STC_300_007</b>	(BT)q, (BT)a, 10sec (MT)q	600원 필요 (MT) O, 0원	P

PTS_STC_300_008	(BT)q, (BT)a, 10sec (MT)q	600원 필요 (MT) O, 100원	P
PTS_STC_300_009	(BT)q, (BT)a, 20sec (MT)q	1250원 필요 (MT)X, 1200원	P
PTS_STC_300_010	(BT)q, (BT)a, 20sec (MT)q	1250원 필요 (MT)O, 0원	P
PTS_STC_300_011	(BT)q, (BT)a, 20sec (MT)q	1250원 필요 (MT)O, 50원	P
PTS_STC_300_012	(MT)q, (MT)a, 10sec (BT)q	700원 필요 (BT)X, 600원	P
PTS_STC_300_013	(MT)q, (MT)a, 10sec (BT)q	700원 필요 (BT)O, 0원	P
PTS_STC_300_014	(MT)q, (MT)a, 10sec (BT)q	700원 필요 (BT)O, 100원	P
PTS_STC_300_015	(MT)q, (MT)a, 20sec (BT)q	1050원 필요 (BT)X, 1000원	P
PTS_STC_300_016	(MT)q, (MT)a, 20sec (BT)q	1050원 필요 (BT)O, 0원	P
PTS_STC_300_017	(MT)q, (MT)a, 20sec (BT)q	1050원 필요 (BT)O, 50원	P
PTS_STC_300_018	(MT)q, (BT)q	1050원 필요 (BT)X, 1000원	P
PTS_STC_300_019	(MT)q, (BT)q	1050원 필요 (BT)O, 0원	P
PTS_STC_300_020	(MT)q, (BT)q	1050원 필요 (BT)O, 50원	P

PTS_STC_400_000	(BT)q, (정산 후)(BT)a	변화없음	P
PTS_STC_400_001	(BT)q, (정산 후)(BT)q	(BT) 1750원, 잔액	P
PTS_STC_400_002	(BT)q, (정산 후)(MT)q	(MT) 1750원, 잔액	P
PTS_STC_400_003	(MT)q, (정산 후)(MT)a	변화없음	P
PTS_STC_400_004	(MT)q, (정산 후)(MT)q	(MT) 1650원, 잔액	P
PTS_STC_400_005	(MT)q, (정산 후)(BT)q	(BT) 1650원, 잔액	P
PTS_STC_500_000		0, 0, 0	P
PTS_STC_500_001	(BT)q, (BT)a, (BT)q, (BT)a	2100, 2100, 0	P
PTS_STC_500_002	(BT)q, (BT)q, (BT)a	2100, 2100, 0	P
PTS_STC_500_003	(BT)q, (BT)a, (BT)q	2100, 2100, 0	P
PTS_STC_500_004	(MT)q, (MT)a, (MT)q, (MT)a	2100, 0, 2100	P
PTS_STC_500_005	(MT)q, (MT)q, (MT)a	2300, 0, 2300	P
PTS_STC_500_006	(MT)q, (MT)a, (MT)q	2100, 0, 2100	P
PTS_STC_500_007	(BT)q, (BT)a, (MT)q, (MT)a	2100, 1050, 1050	P
PTS_STC_500_008	(MT)q, (MT)a, (BT)q, (BT)a	2100, 1050, 1050	P
PTS_STC_500_009	(BT)q, (BT)a, (환승)(MT)q, (MT)a	2100, 1050, 1050	P
PTS_STC_500_010	(BT)q, (BT)a, (MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a	2100, 2100, 0	P
PTS_STC_500_011	(BT)q, (BT)a, (환승)(MT)q, (MT)a	2200, 2200, 0	P
PTS_STC_500_012	(BT)q, (BT)a, (환승)(MT)q, (MT)s	2100, 1050, 1050	P
PTS_STC_500_013	(BT)q, (BT)a, (환승)(MT)q, (MT)a, (BT)q, (BT)a	2400, 1641, 759	P
PTS_STC_500_014	(BT)q, (BT)a, (환승)(MT)q, (MT)a, (MT)q, (MT)a	2400, 591, 1809	P



PTS_STC_500_015	(MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a		P
PTS_STC_500_016	(MT)q, (MT)a, (환승)(BT)q, 40sec(BT)a		P
PTS_STC_500_017	(MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a, (BT)q, (BT)a		P
PTS_STC_500_018	(MT)q, (MT)a, (환승)(BT)q, 40sec(BT)a, (MT)q, (MT)a		P
PTS_STC_500_019	(BT)q, (BT)a, (환승)(MT)q, (MT)a, (BT)q, (환승)(MT)q, 10sec(BT)a		P
PTS_STC_500_020	(BT)q, (BT)a, (환승)(MT)q, (MT)a, (BT)q, (환승)(MT)q, 40sec(BT)a		P
PTS_STC_500_021	(MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a, (환승)(MT)q, (MT)a		P
PTS_STC_500_022	(MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a, (환승)(MT)q, (MT)s		P
PTS_STC_500_023	(BT)q, (BT)a, (환승)(MT)q, (MT)s, (BT)q, (환승)(MT)q, 10sec(BT)a		P
PTS_STC_500_024	(BT)q, (BT)a, (환승)(MT)q, (MT)s, (BT)q, (환승)(MT)q, 40sec(BT)a		P
PTS_STC_500_025	(MT)q, (MT)a, (환승)(BT)q, 40sec(BT)a, (환승)(MT)q, (MT)a		P
PTS_STC_500_026	(MT)q, (MT)a, (환승)(BT)q, 40sec(BT)a, (환승)(MT)q, (MT)s		P
PTS_STC_500_027	(BT)q, (MT)q, (MT)a		P
PTS_STC_500_028	(BT)q, (BT)q		P
PTS_STC_500_029	(MT)q, (MT)a, (환승)(BT)q, (MT)q, (MT)a		P
PTS_STC_500_030	(MT)q, (MT)a, (환승)(BT)q, (BT)q, (BT)a		P
PTS_STC_500_031	(MT)q, (MT)q, (MT)a	2300,0,2300	P
PTS_STC_500_032	(MT)q, (BT)q, (BT)a	2100,2100,0	P
PTS_STC_500_033	(BT)q, (BT)a, (환승)(MT)q, (MT)q, (MT)a		P
PTS_STC_500_034	(BT)q, (BT)a, (환승)(MT)q, (BT)q, (BT)a		P

<b>PTS_STC_500_035</b>	(BT)q, (BT)a, (환승)(MT)q, (MT)a, (BT)q	P
<b>PTS_STC_500_036</b>	(MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a, (BT)q	P
<b>PTS_STC_500_037</b>	(BT)q, (BT)a, (환승)(MT)q, (MT)s, (BT)q	P
<b>PTS_STC_500_038</b>	(MT)q, (MT)a, (환승)(BT)q, 40sec(BT)a, (BT)q	P
<b>PTS_STC_500_039</b>	(BT)q, (BT)a, (환승)(MT)q, (MT)a, (MT)q	P
<b>PTS_STC_500_040</b>	(MT)q, (MT)a, (환승)(BT)q, 10sec(BT)a, (MT)q	P
<b>PTS_STC_500_041</b>	(BT)q, (BT)a, (환승)(MT)q, (MT)s, (MT)q	P
<b>PTS_STC_500_042</b>	(MT)q, (MT)a, (환승)(BT)q, 40sec(BT)a, (MT)q	P