

# Software Design Specification for PTS System

Project Team  
**Class B Team 3**

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1 Introduction

1.1 Purpose

Public Transportation System(PTS)에서 사용할 수 있는 SW를 구현하기 위한 요구사항을 명세한 문서이다.

1.2 Scope

1.2.1 개발팀

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1.2.2 제한사항

밑의 그림 1 중 이번 프로젝트는 지하철, 버스 및 정산 시스템으로 규모를 제한한다. 또한 버스는 1대 지하철 2호선 중 5개역(건대입구, 왕십리, 합정, 신림, 강남)만을 대상으로 한다. 모든 시스템은 SW만으로 구현하고 HW가 필요한 부분은 SW모듈을 만들어 가상으로 HW를 구현한다.

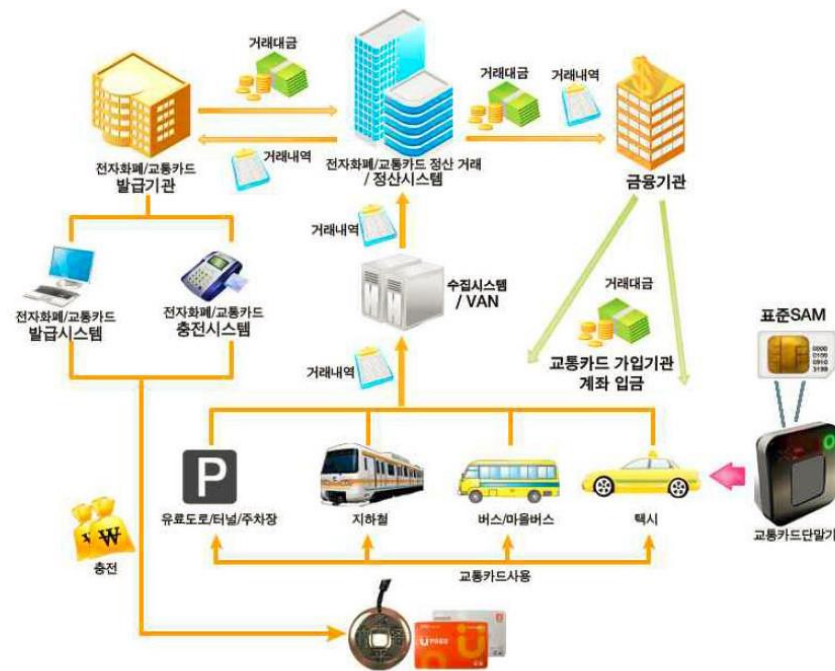


그림 1 서울의 교통카드 운영시스템

1.3 Definition and acronyms

PTS: Public Transportation System

SW: Software

HW: Hardware

태그: 카드와 단말기가 통신할 수 있도록 하는 행위, 승 하차 시 요금 결제를 위한 행위

2 References`

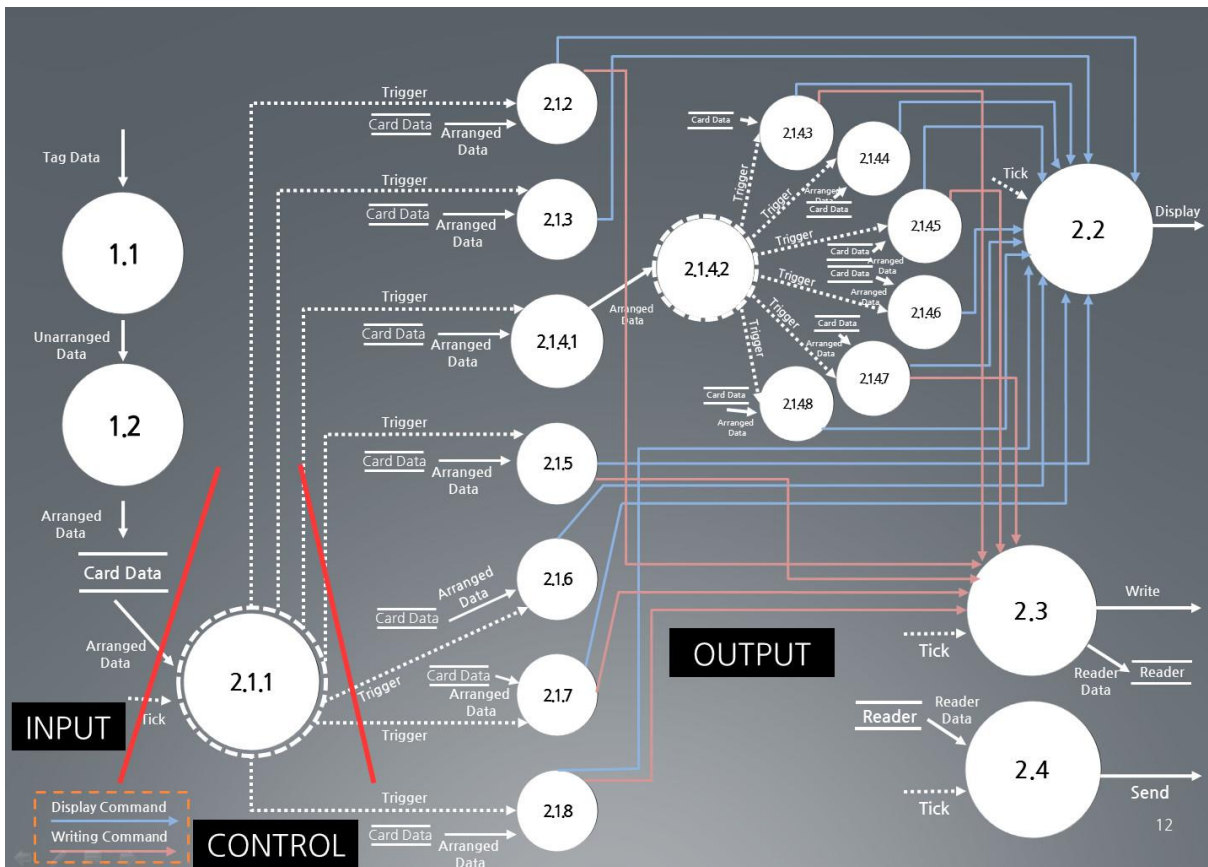
(김형환 2010) 김형환, 신동석 "교통카드 무인판매/충전기 통합 운영시스템 개발", 韓國 컴퓨터情報學會論文誌 15(3), 99-109, 2010

(김경선, 2009) 김경선, "교통카드 시스템 사례 연구-수도권 교통카드 중심", 수도권교통 본부, 2009

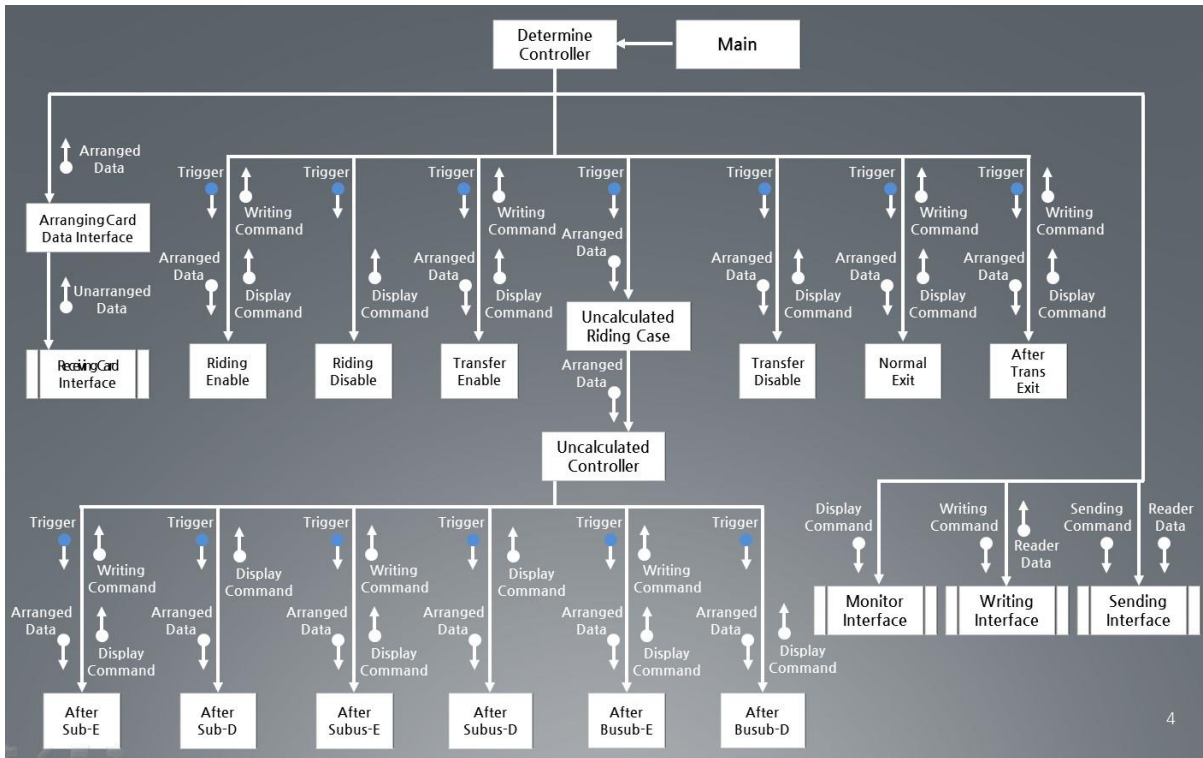
3 Structured Design

3.1 Bus Reader

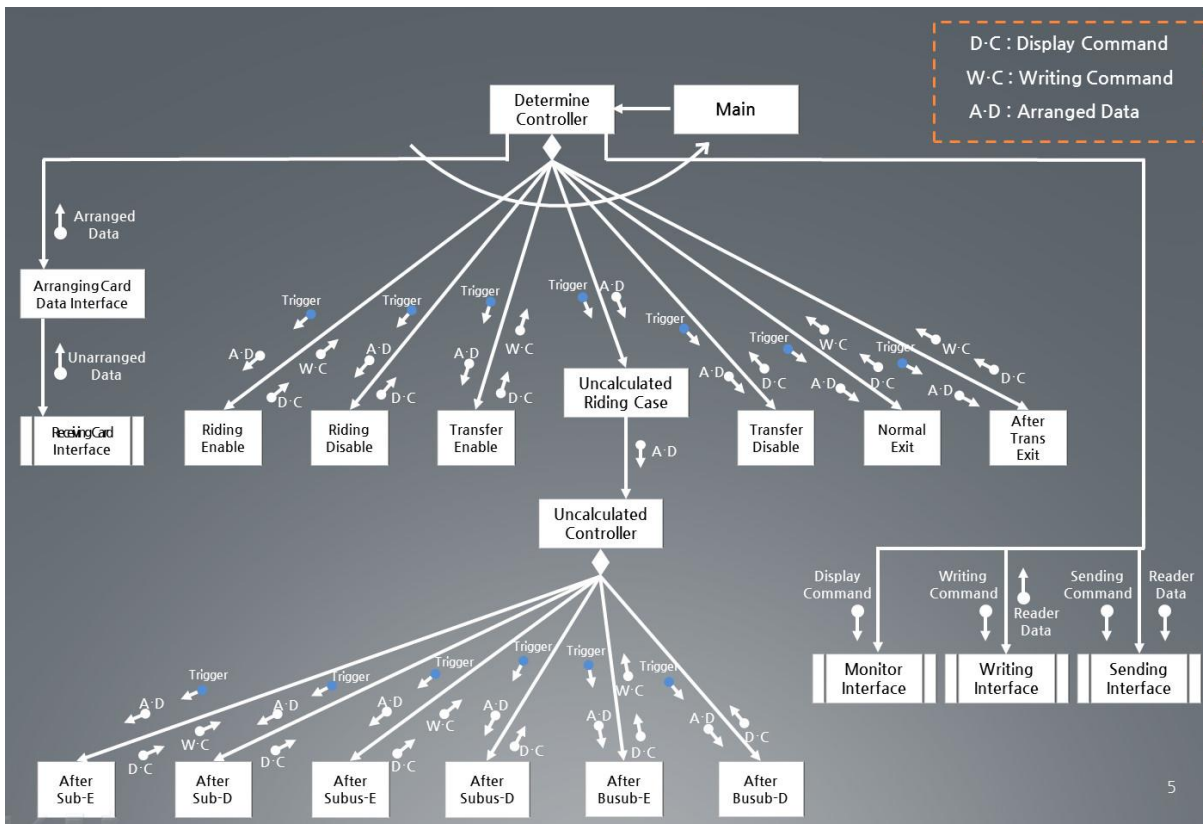
3.1.1 Transform Analysis



### 3.1.2 Structured Charts (Basic)

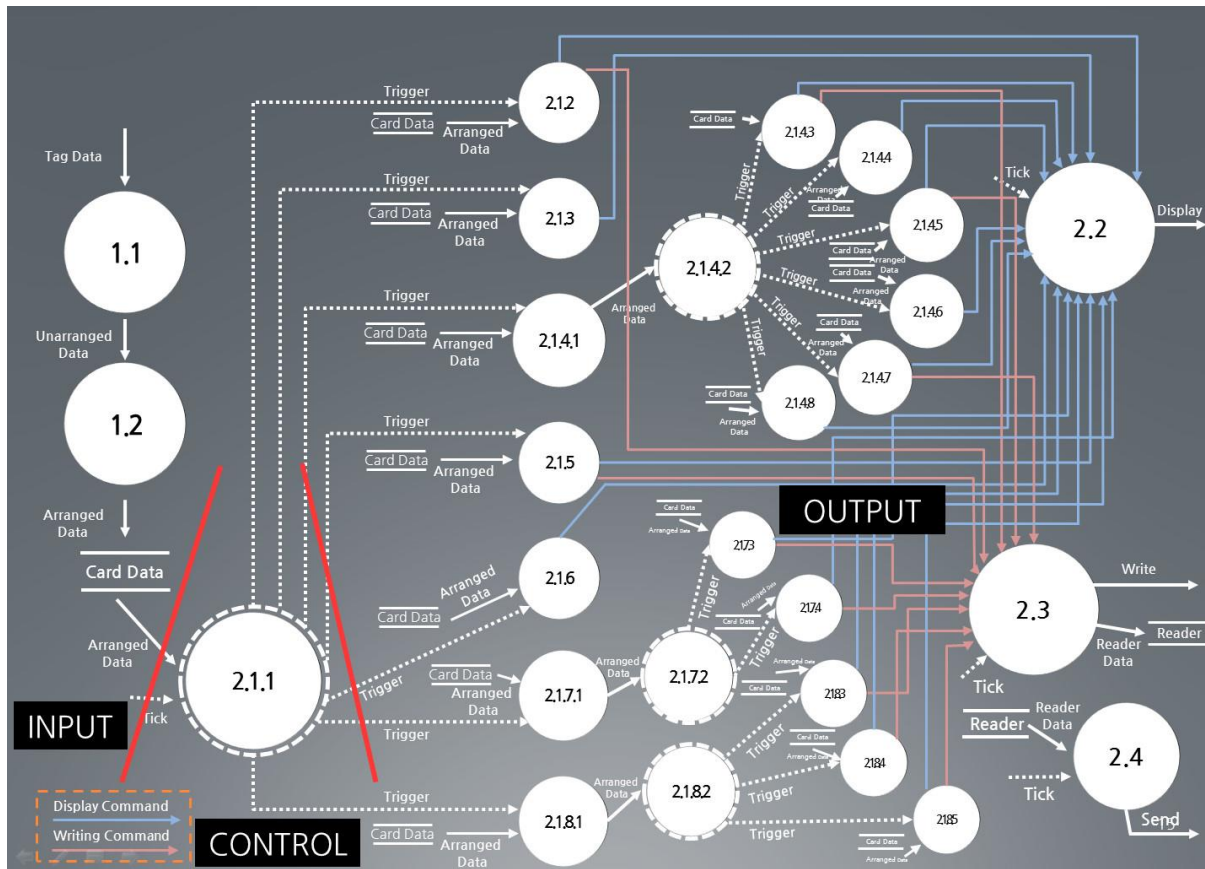


### 3.1.3 Structured Charts (Advanced)

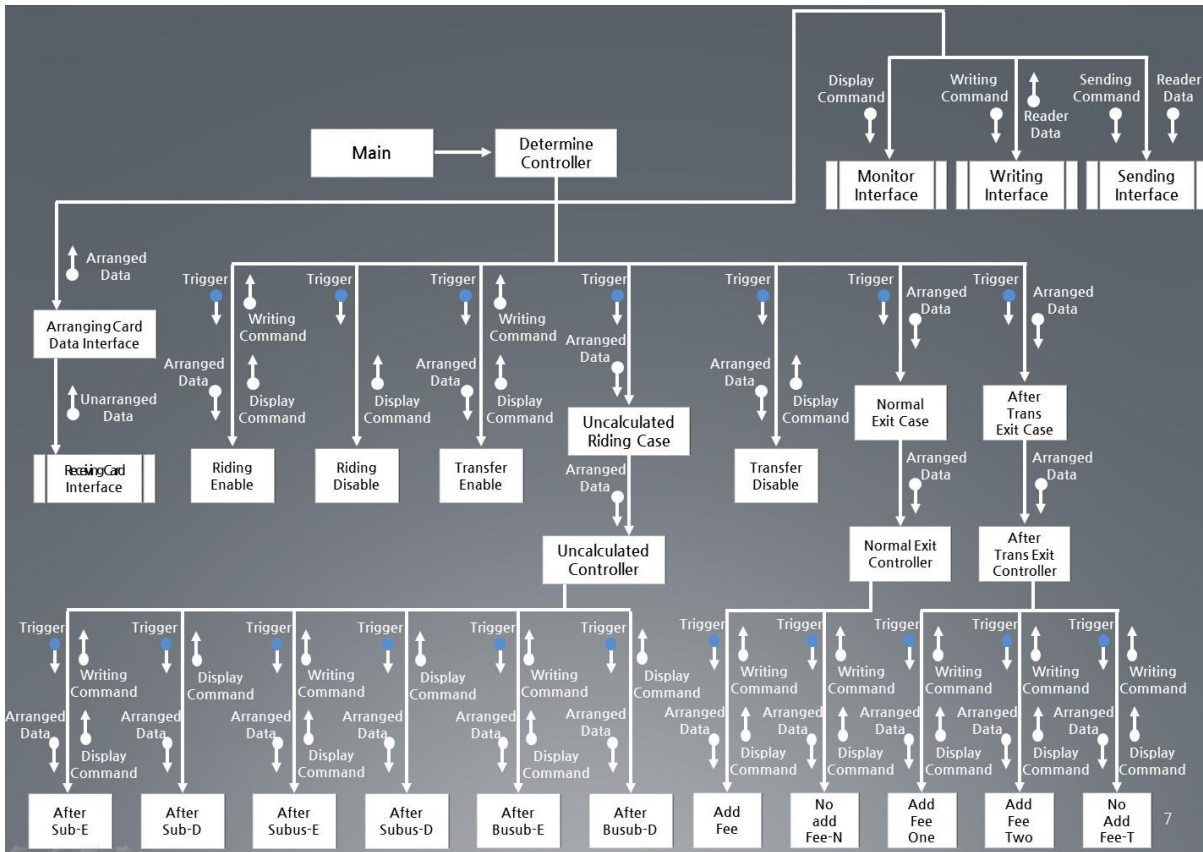


### 3.2 Subway Reader

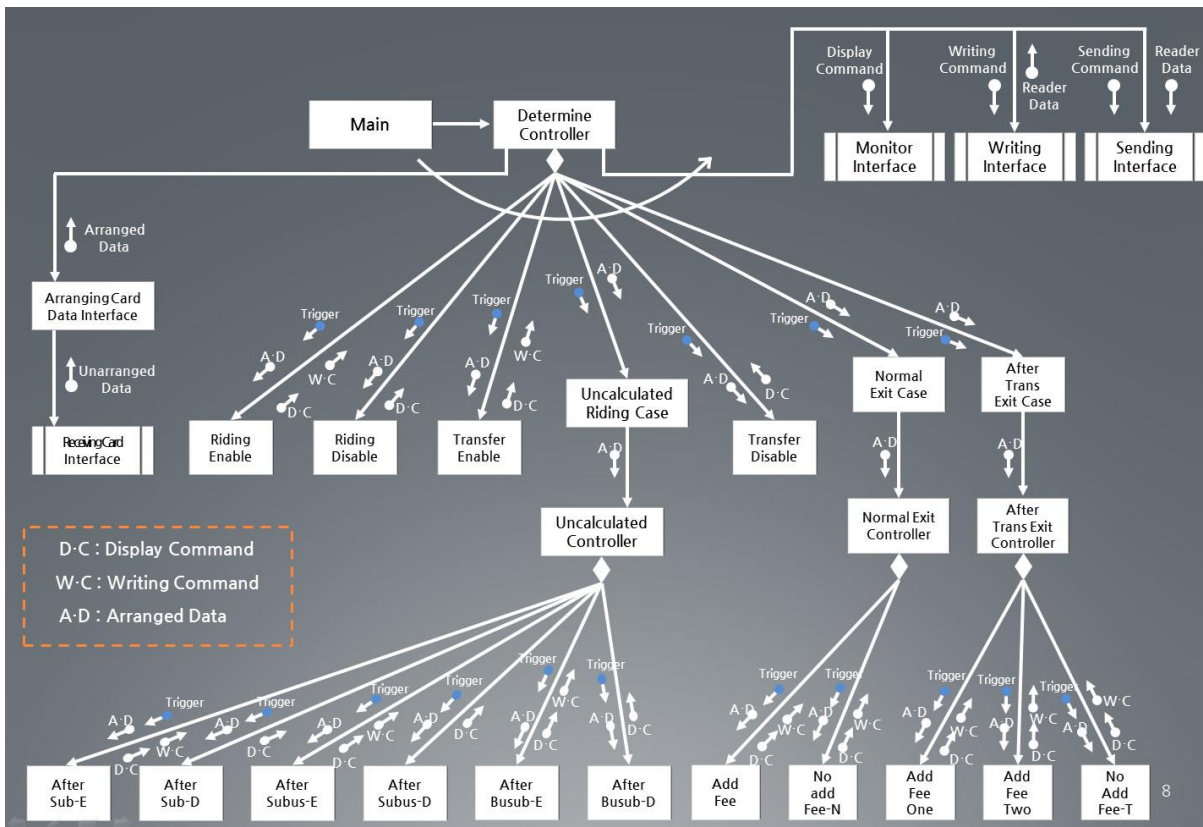
#### 3.2.1 Transform Analysis



### 3.2.2 Structured Charts (Basic)

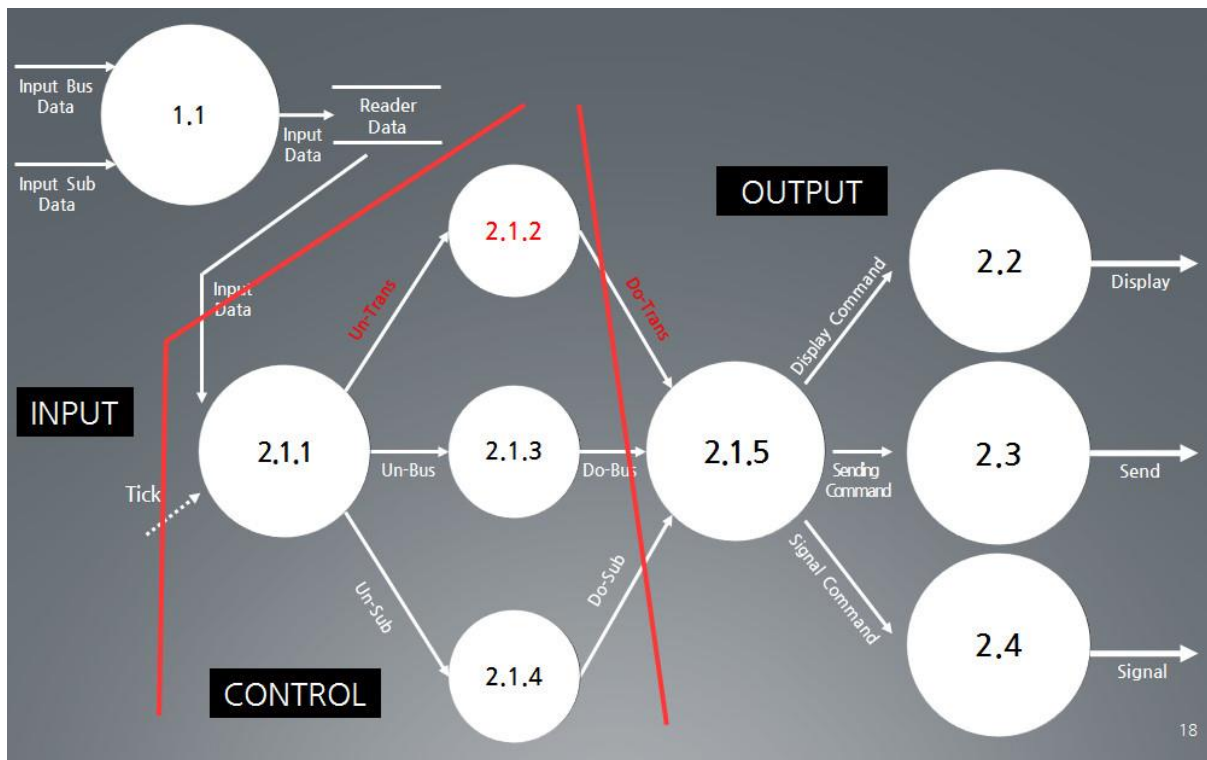


### 3.2.3 Structured Charts (Advanced)

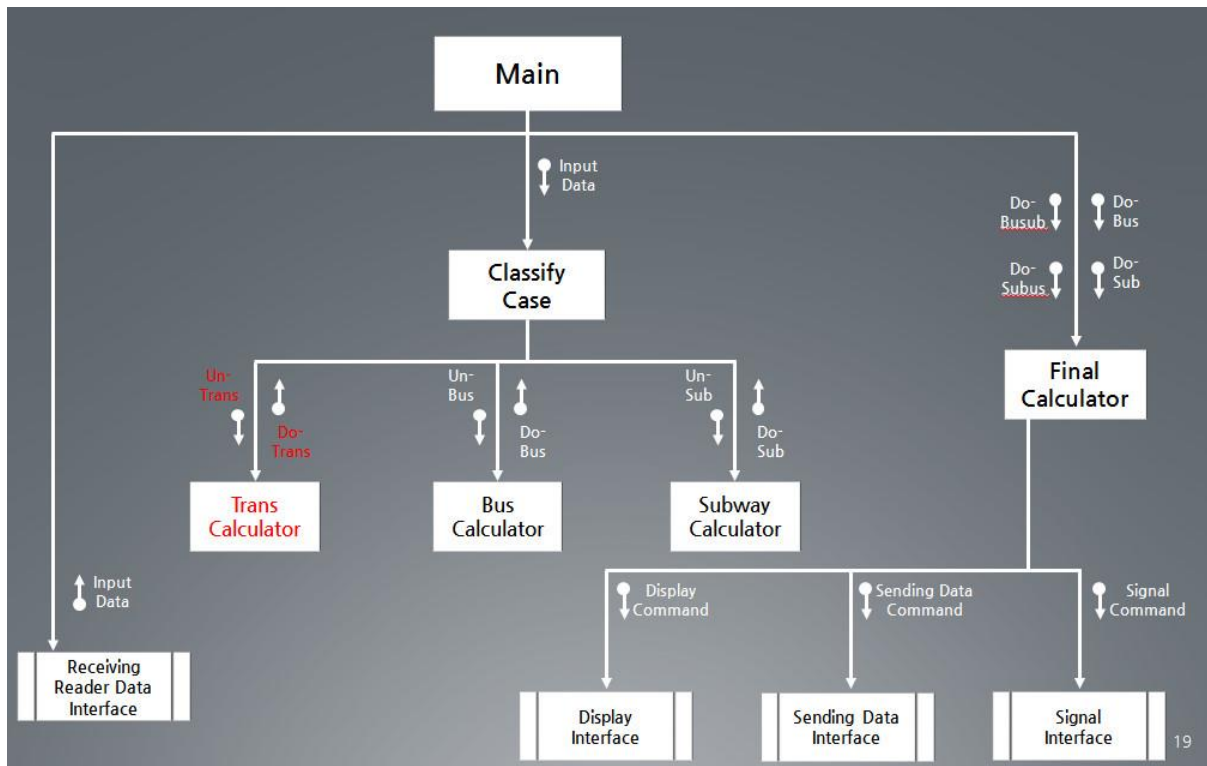


### 3.3 Calculator System

#### 3.3.1 Transform Analysis



#### 3.3.2 Structured Charts (Basic)





3.3.3 Structured Charts (Advanced)

