TEAM PRESENTATION#2

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Digital Door Lock System

Software Design Specification

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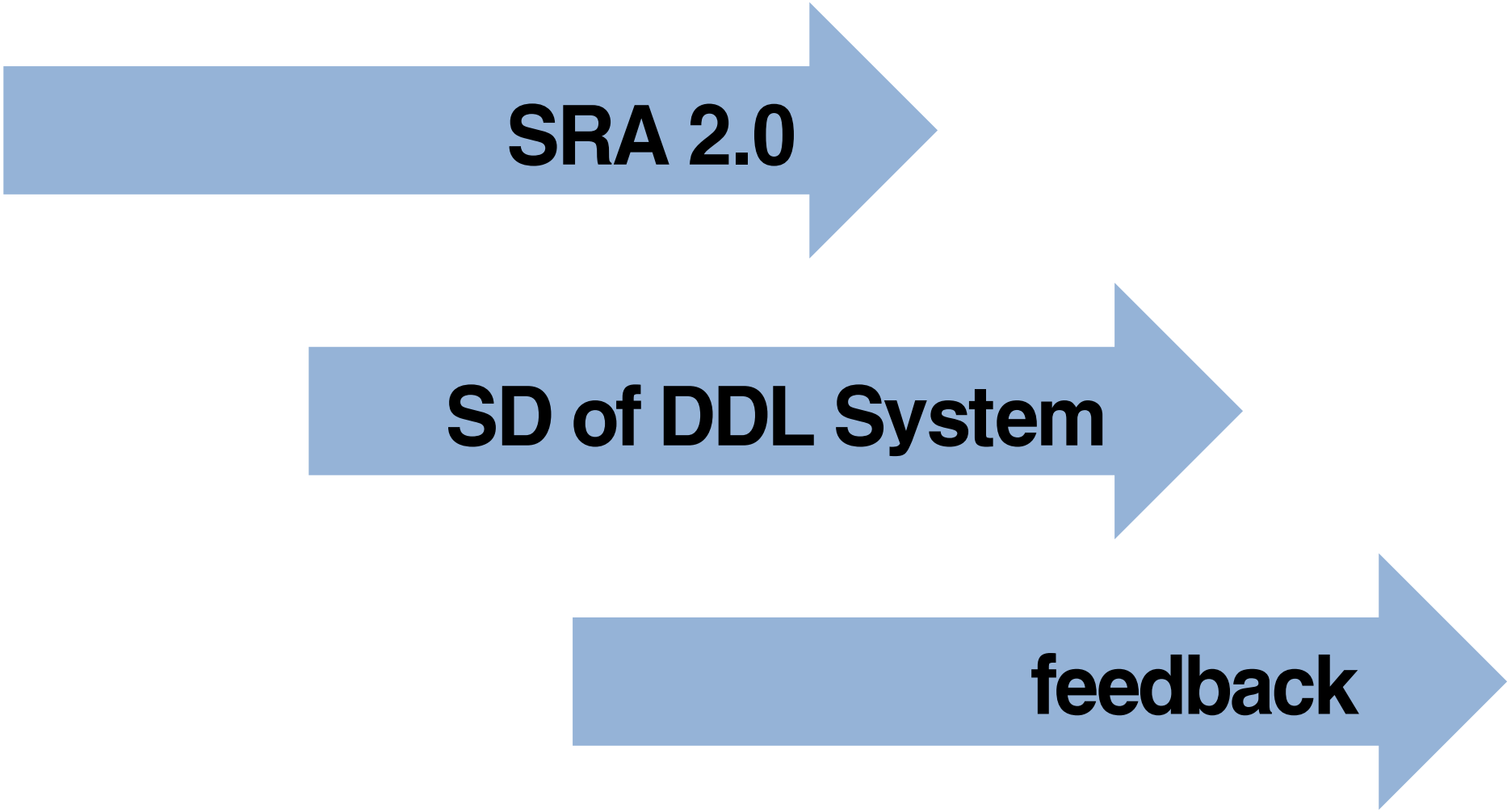
2. *Structured Design* Structured Chart

PURPOSE



CHANGE POINT

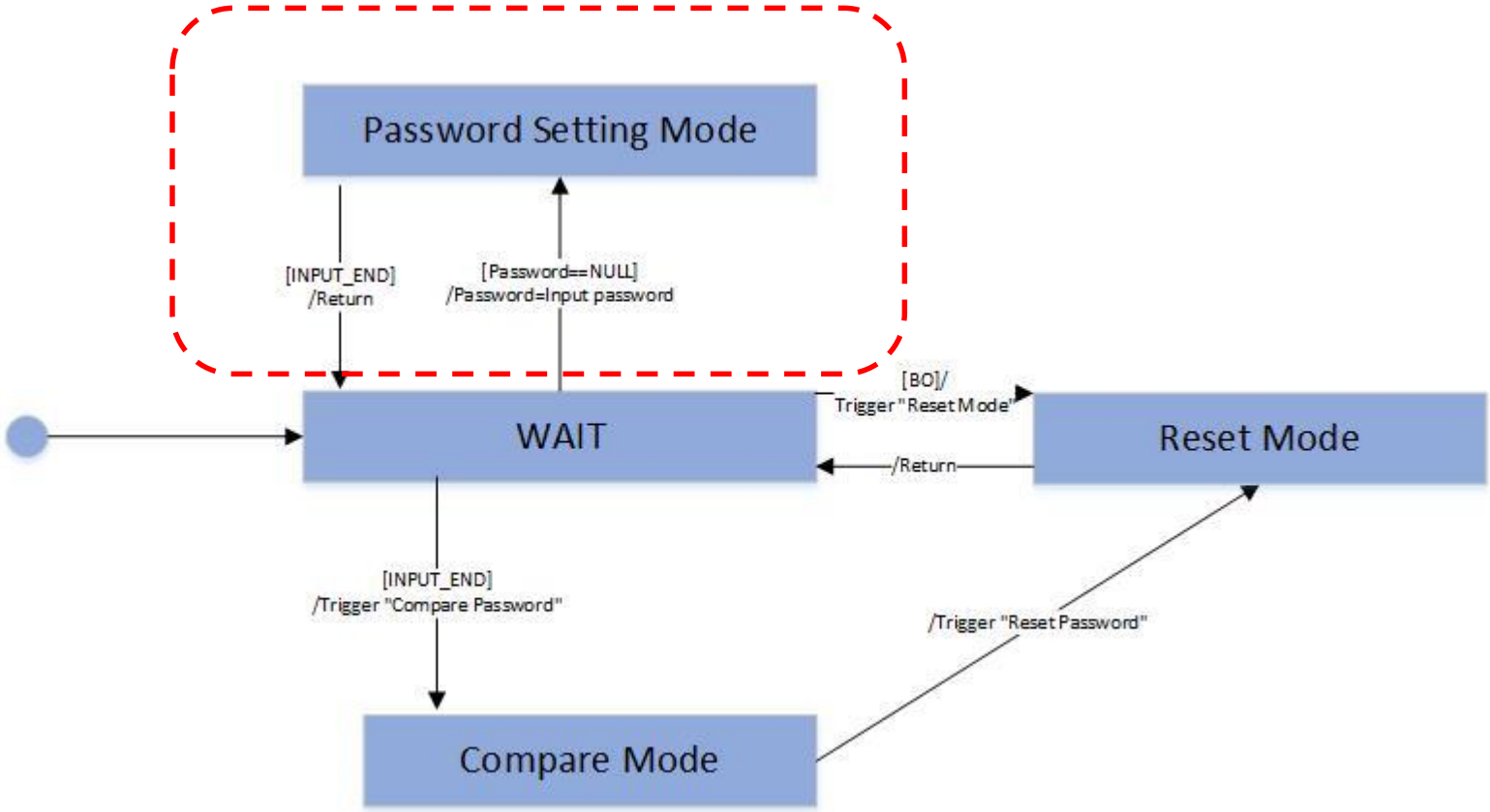
1. Tick을 정의 – 1/100초

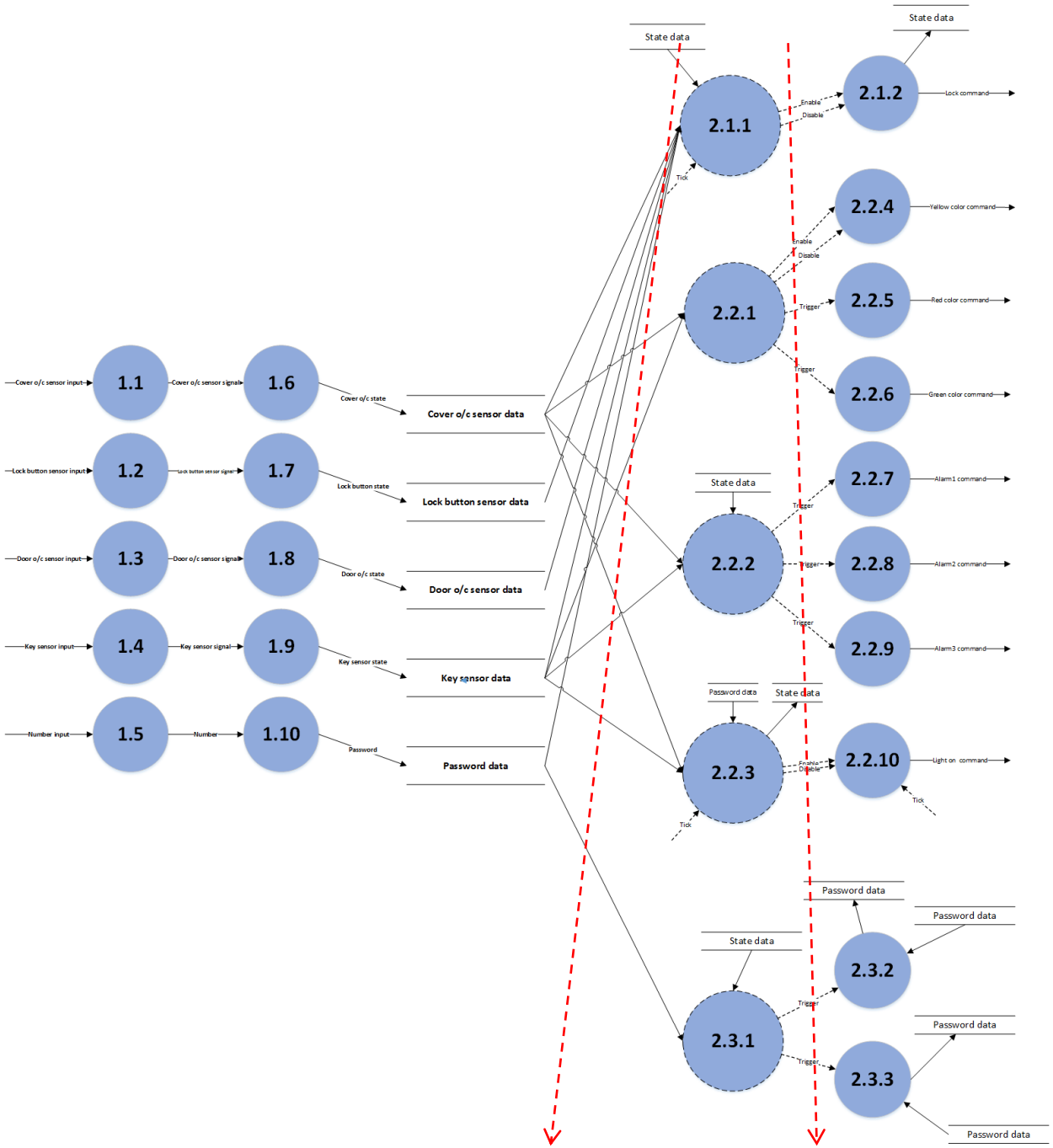
2. Data Store을 Data의 종류에 따라 세분화

Cover o/c sensor data	Lock button sensor data	Door o/c sensor data	Key sensor data
: C(T/F)	: LB(T/F)	: D(T/F)	: K(T/F)
Password data	: input password(char[5]), password(char[5]), P(T/F),N(T/F)		
State data	: L(T/F), BO(T/F), INPUT_END(T/F), AC(T/F),C_flag(0/1)		

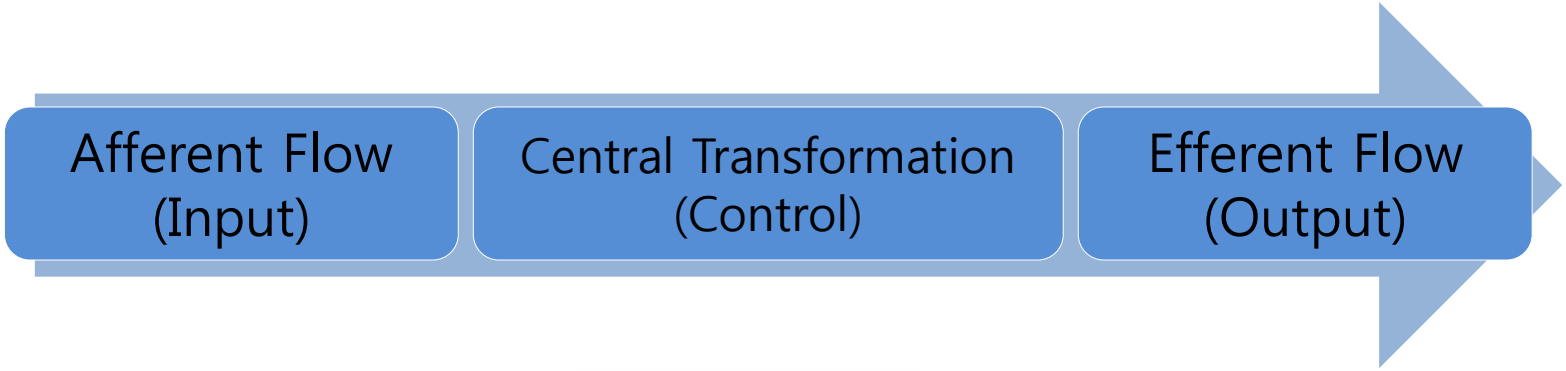
CHANGE POINT

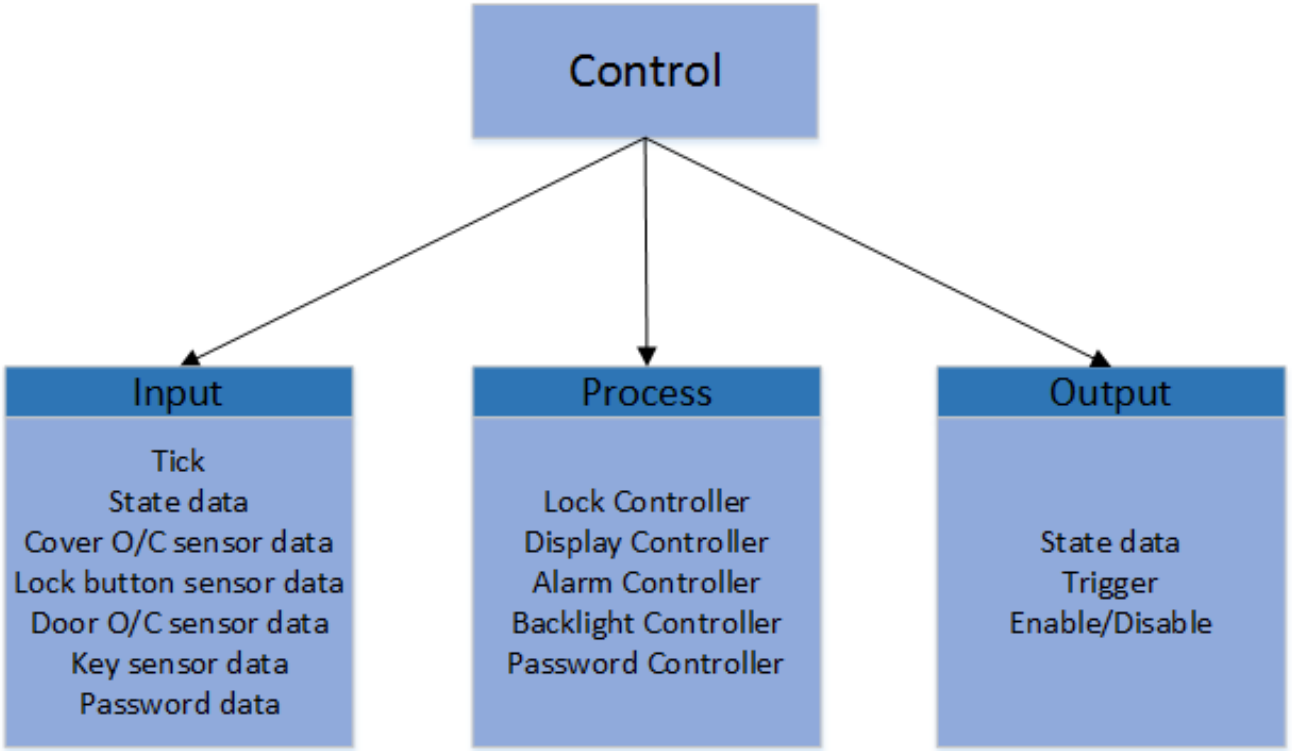
3.Password를 setting하는 terminator를 추가



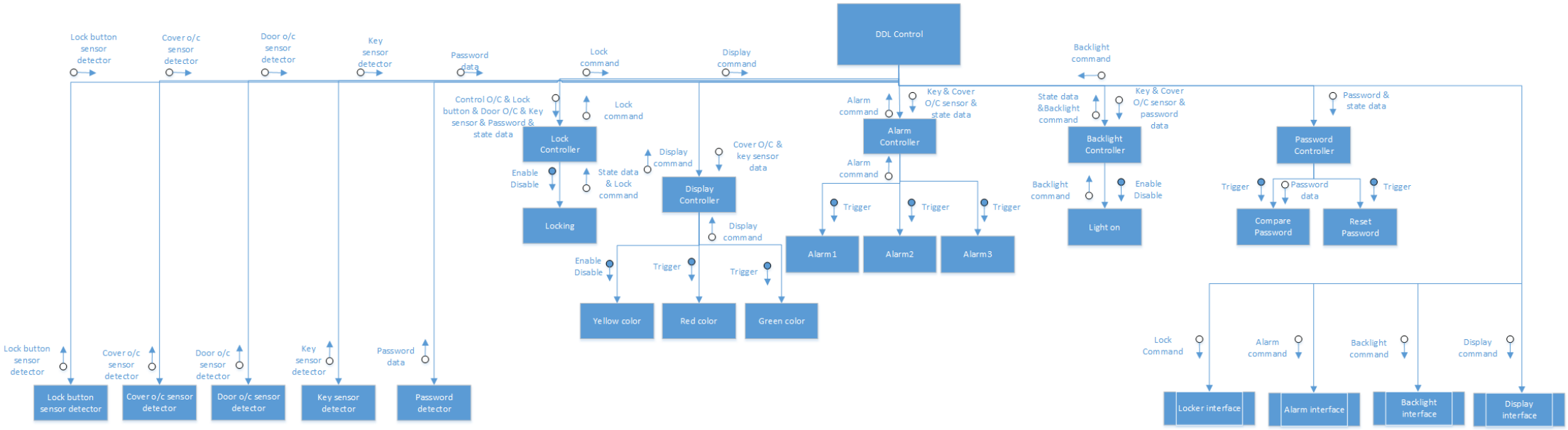

Cover o/c sensor input
1.1
Cover o/c sensor signal
1.6
Cover o/c state
Cover o/c sensor data
Lock button sensor input
1.2
Lock button sensor signal
1.7
Lock button state
Lock button sensor data
Door o/c sensor input
1.3
Door o/c sensor signal
1.8
Door o/c state
Door o/c sensor data
Key sensor input
1.4
Key sensor signal
1.9
Key sensor state
Key sensor data
Number input
1.5
Number
1.10
Password
Password data
State data
2.1.1
Tick
Enable
Disable
2.1.2
Lock command
2.2.1
Enable
Disable
2.2.4
Yellow color command
Trigger
2.2.5
Red color command
Trigger
2.2.6
Green color command
State data
2.2.2
Trigger
2.2.7
Alarm1 command
Trigger
2.2.8
Alarm2 command
Trigger
2.2.9
Alarm3 command
Password data
State data
2.2.3
Enable
Disable
2.2.10
Light on command
Tick
Tick
Password data
State data
2.3.1
Trigger
Trigger
2.3.2
Password data
2.3.3
Password data
Password data

Structured Chart – Transform Analysis

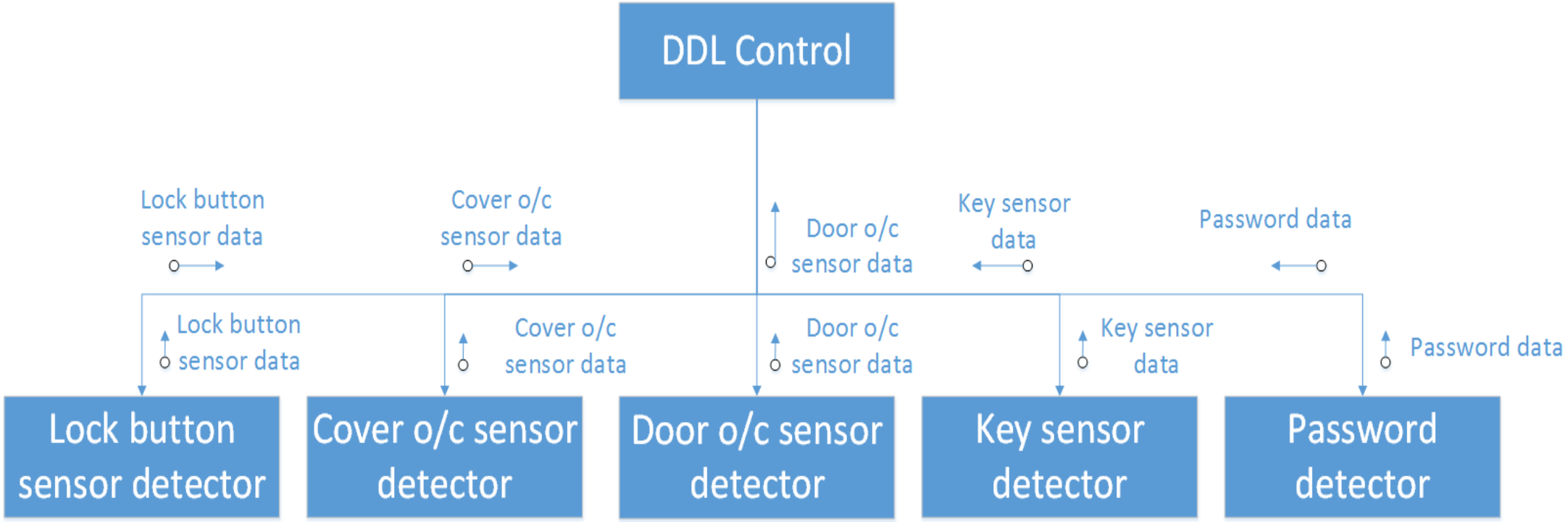




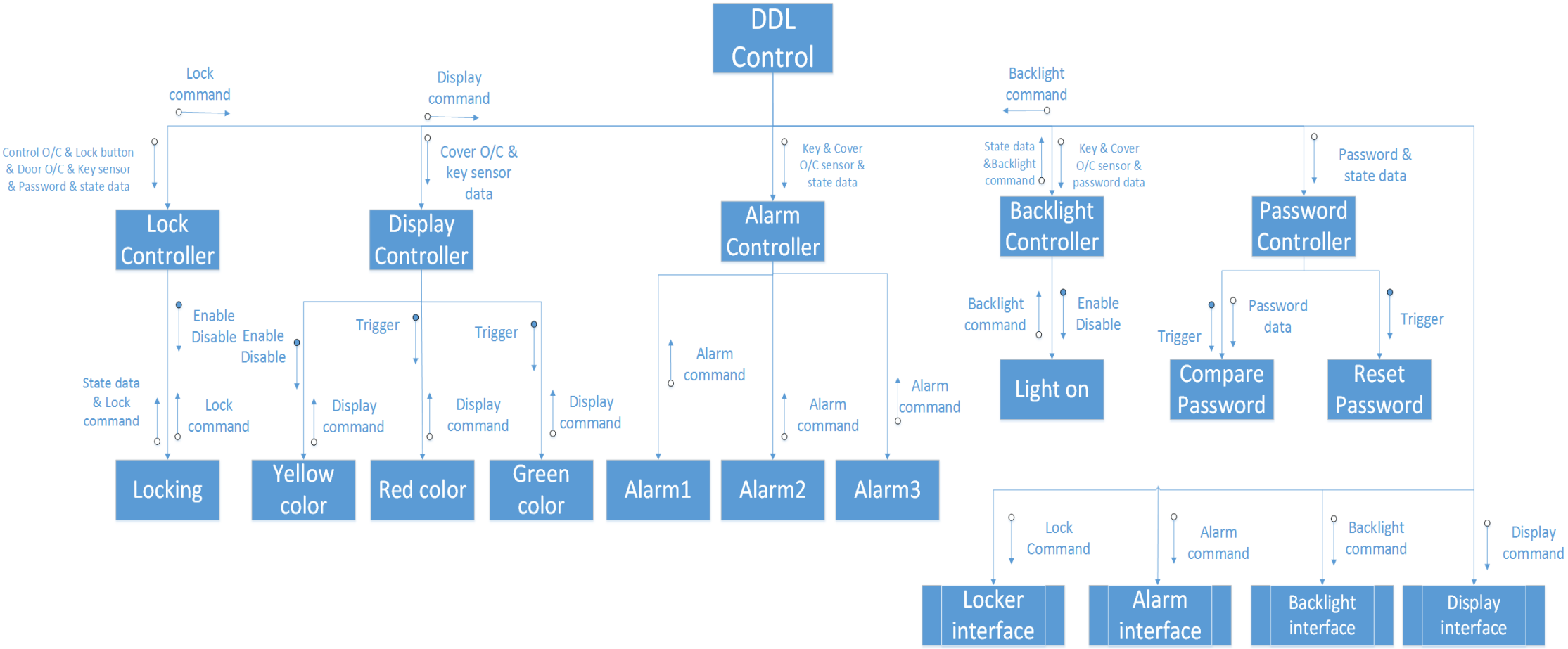
Structured Chart – DDL (Basic)



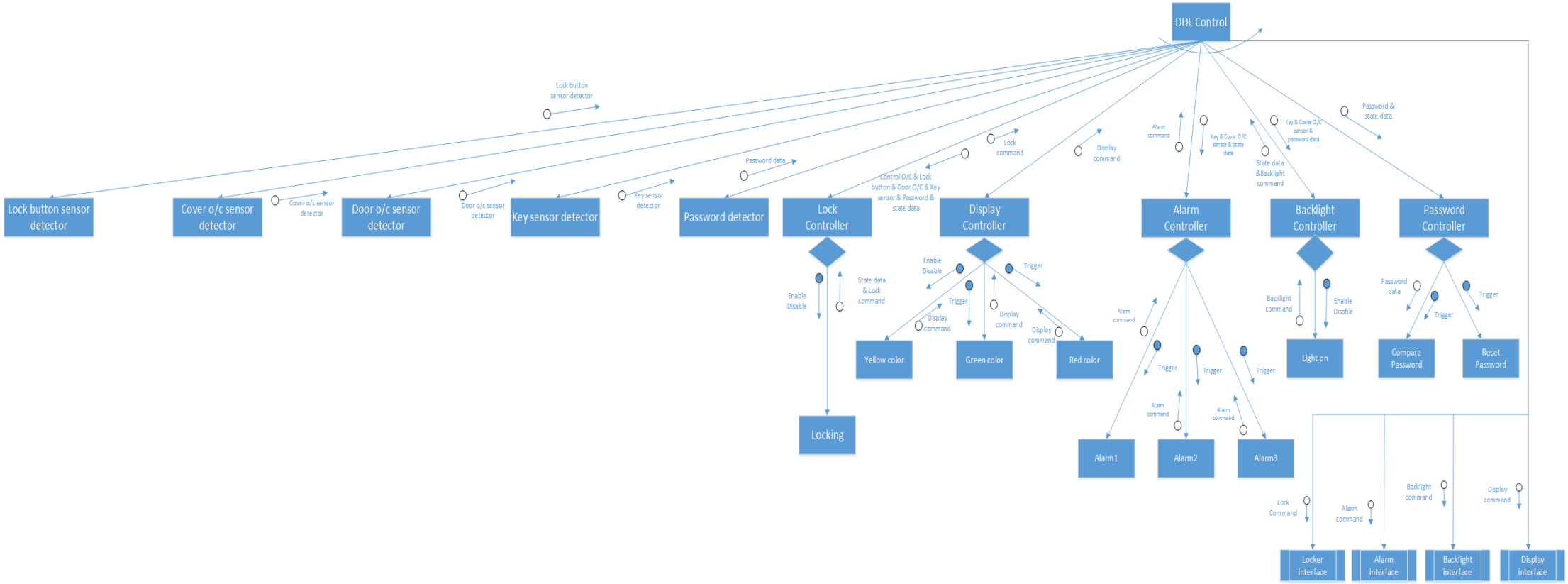
DDL (Basic) Input



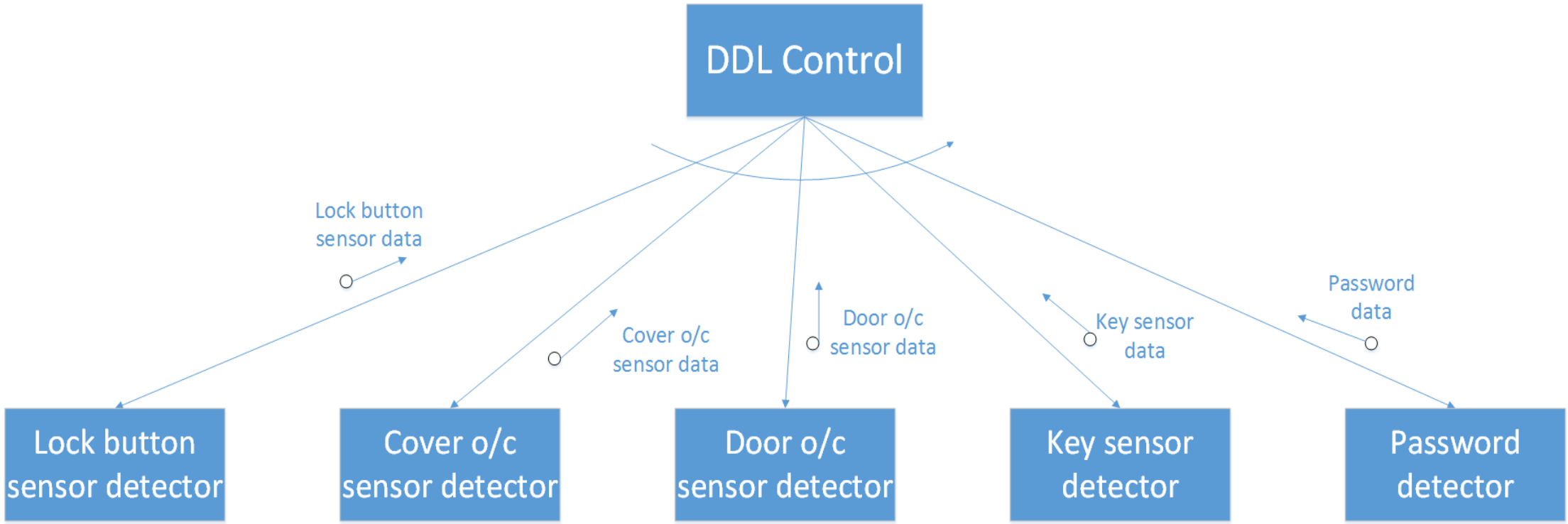
DDL (Basic) Control &Output



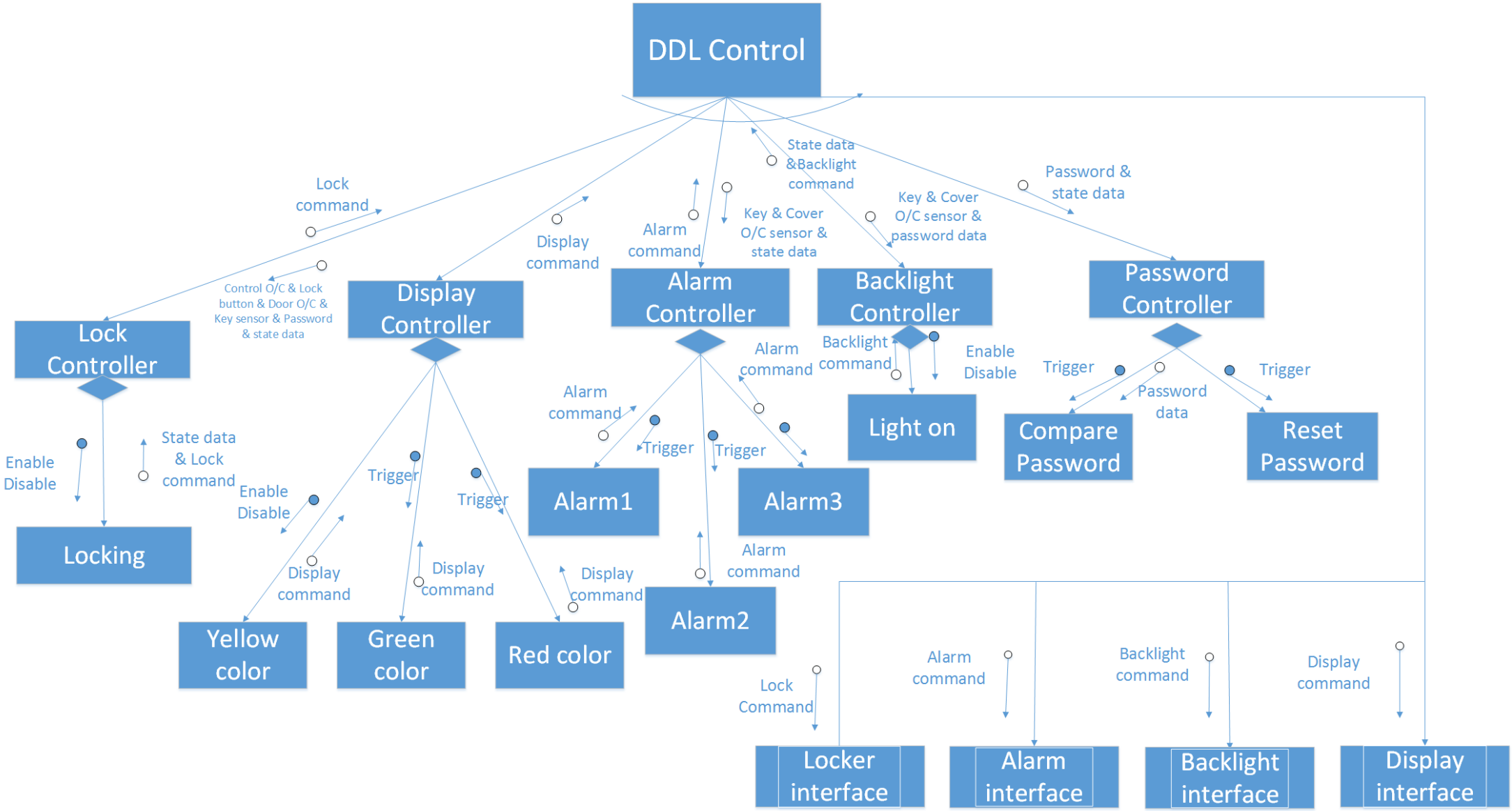
Structured Chart – DDL (Advanced)



DDL (Advanced) Input



DDL (Advanced) Control &Output



Structured Chart – Data Definition

Data Name	Description
Cover o/c sensor data	덮개의 개폐에 관한 정보를 저장한 값
Lock button sensor data	잠금 버튼에 관한 정보를 저장한 값
Door o/c sensor data	문의 개폐에 관한 정보를 저장한 값
Key sensor data	열쇠가 올바른지에 대한 정보를 저장한 값
Password data	비밀번호에 관련된 정보를 저장한 값
State data	프로세스에서 필요로 하는 상태에 대한 정보를 저장한 값

Q & A