



CUSTOMIZED COFFEE MAKER SD

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APP SYSTEM SD

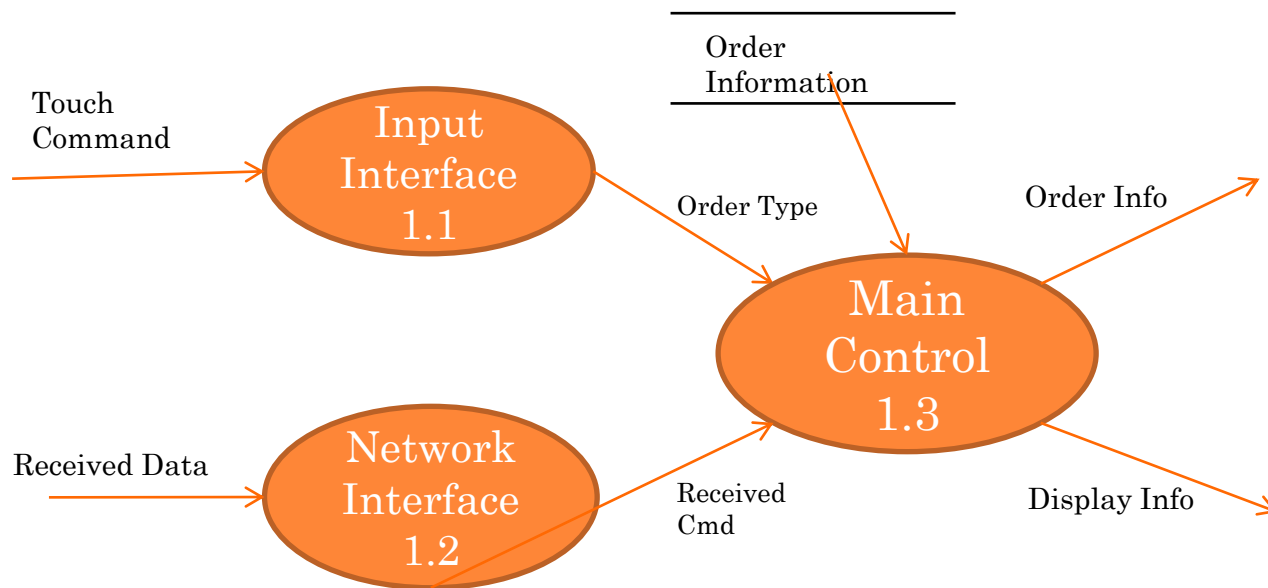
Transform Analysis

Structured Charts

C Code

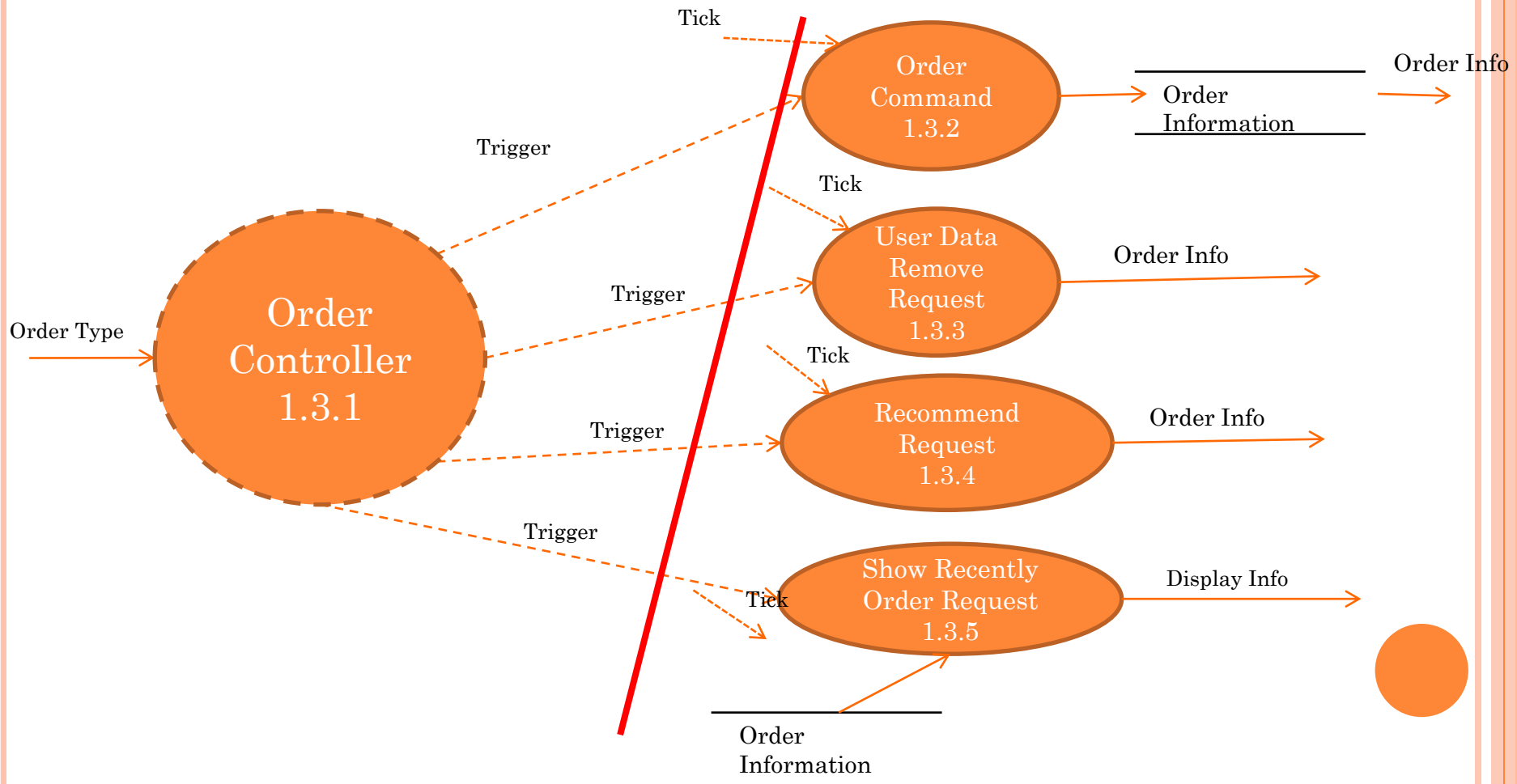
TRANSFORM ANALYSIS

○ Afferent Flow(Input)



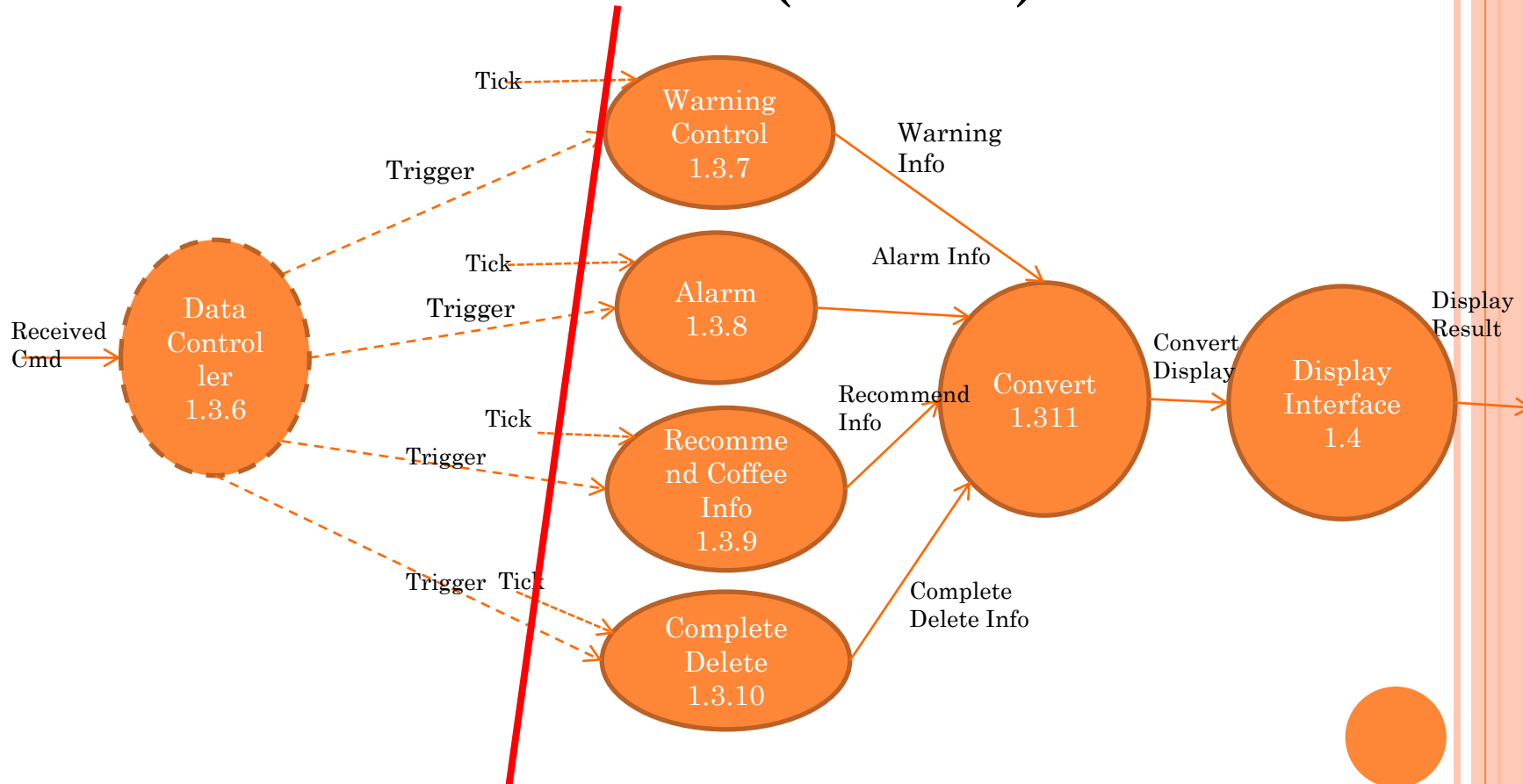
TRANSFORM ANALYSIS

○ Central Transformation(Control)



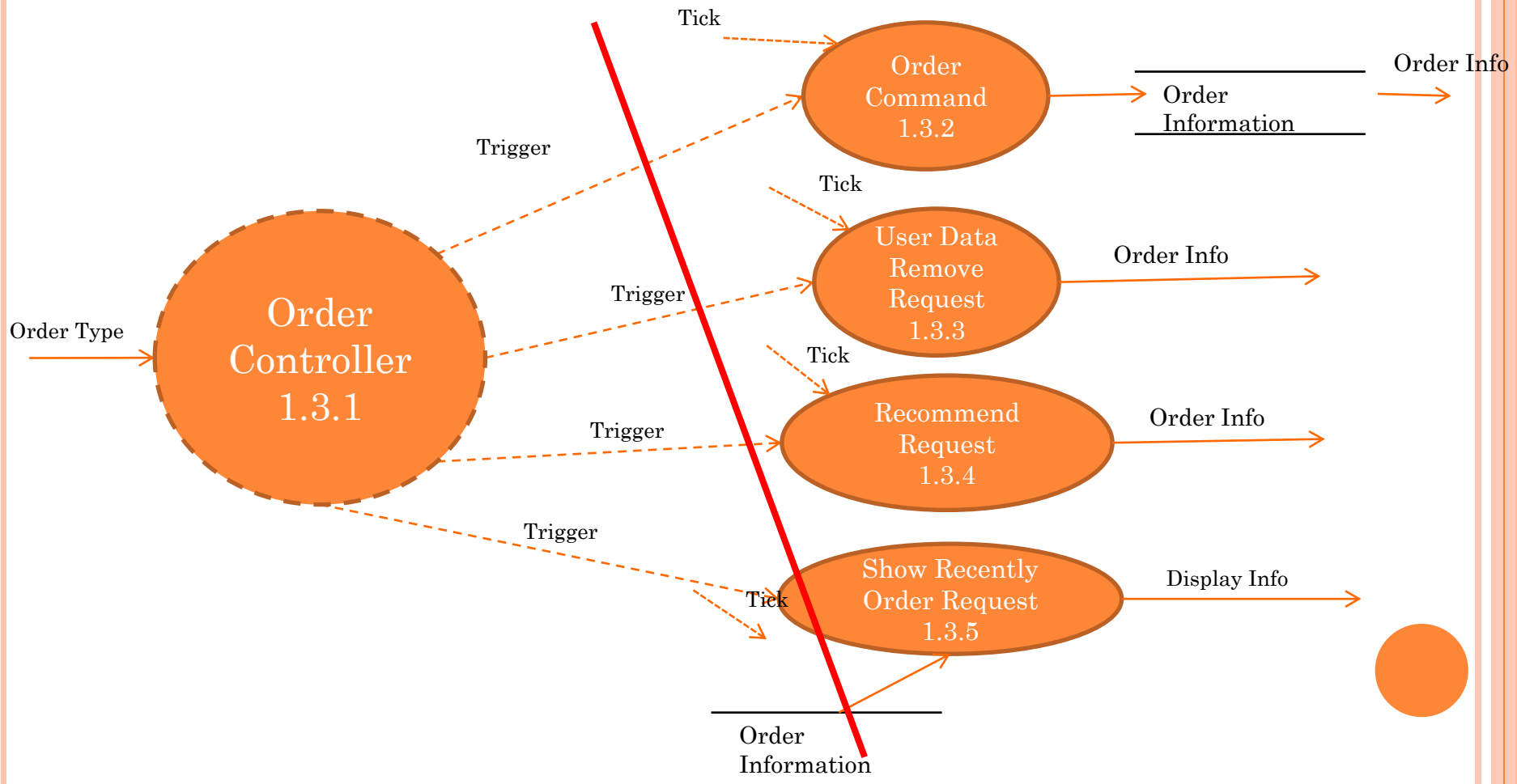
TRANSFORM ANALYSIS

○ Central Transformation(Control)



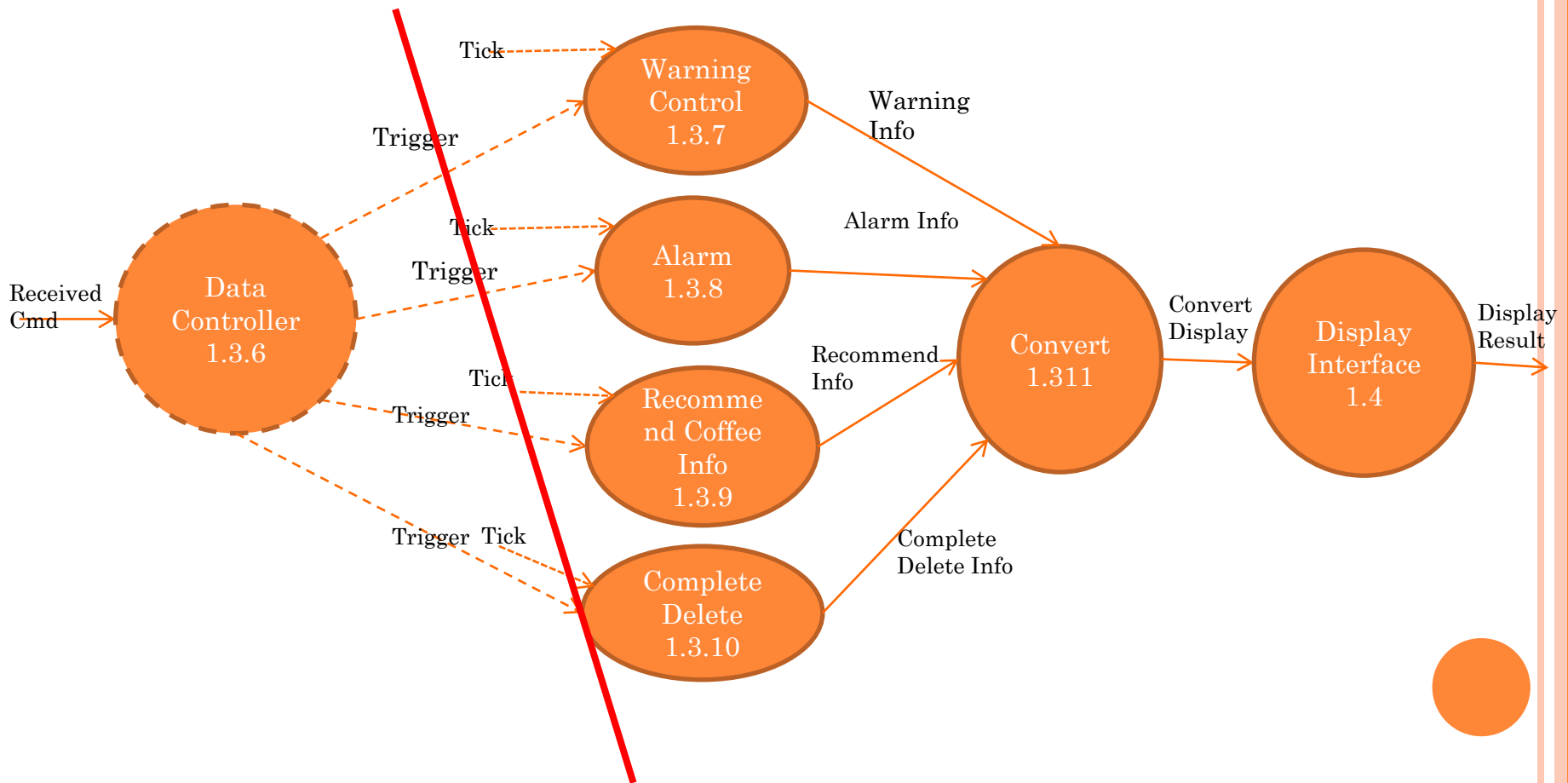
TRANSFORM ANALYSIS

○ Efferent Flow(Output)



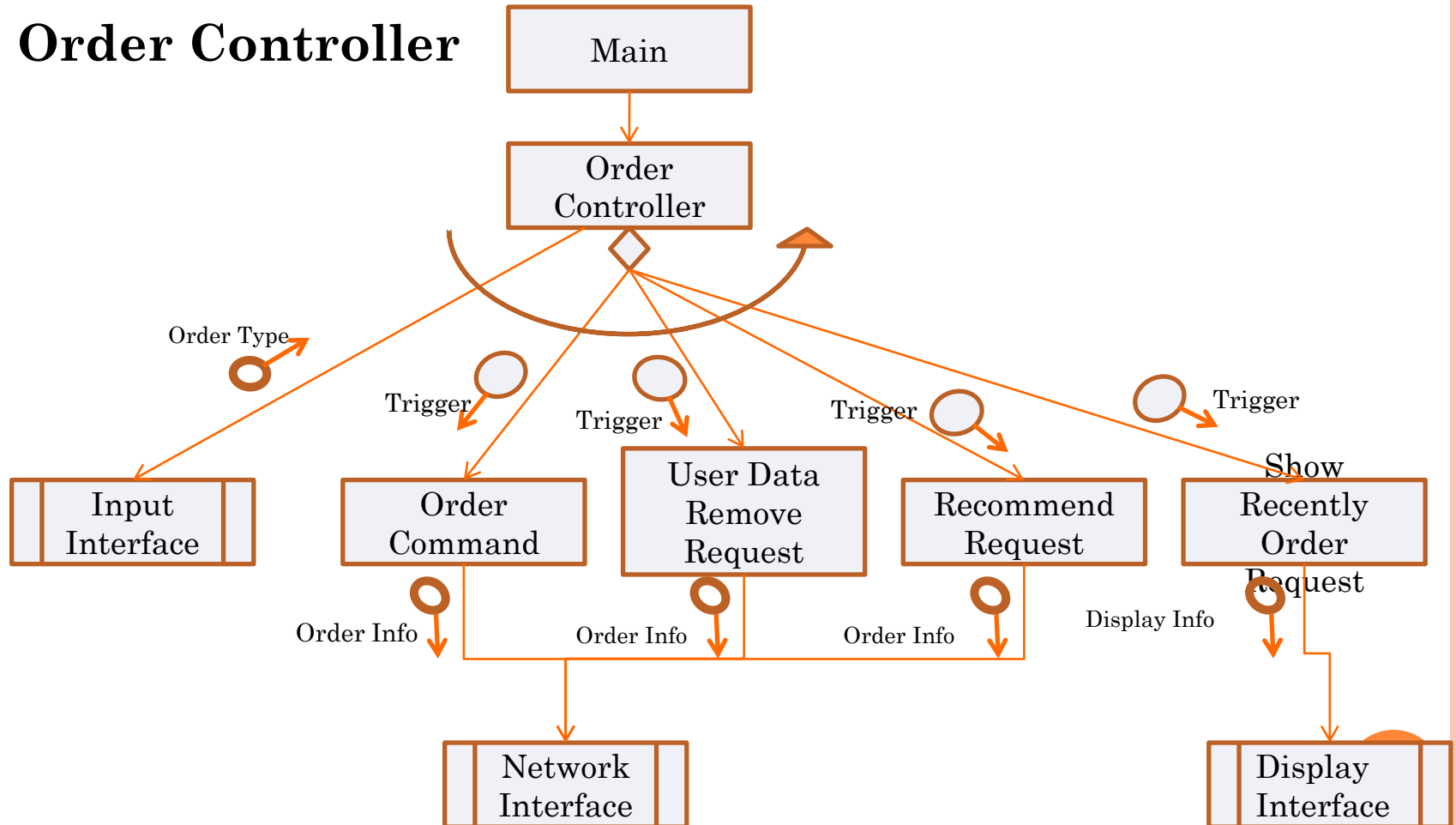
TRANSFORM ANALYSIS

○ Efferent Flow(Output)



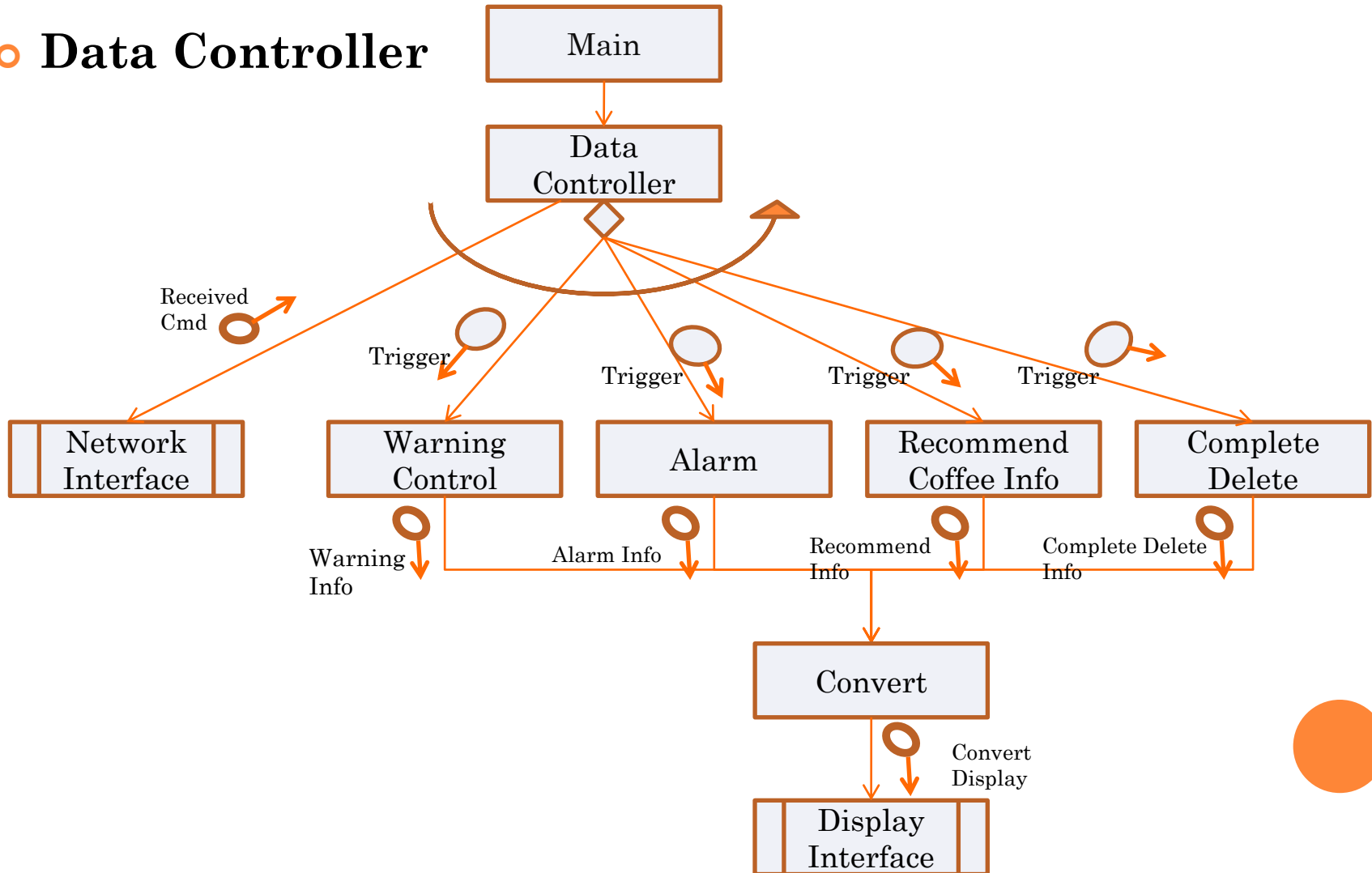
STRICTIRED CJARTS

Order Controller



STRICTIRED CJARTS

- Data Controller



C CODE

- typedef struct CoffeeH
- {
- char szName[MAX_STRING];
- float fCalorie;
- int iPrice;
- BOOL bHot;
- BOOL bCream;
- int iCupSize;
- }Coffee;

- typedef struct Order
- {
- BOOL isTakeOut;
- int iOrder_num;
- Coffee kCoffeeList[LIST_COUNT];
- }Order;



C CODE

```
○ void OrderController(int orderType)
○ {
○     switch(orderType)
○     {
○         case 0:
○         case 1:
○             OrderCommand();
○             break;
○
○         case 2:
○             RecommendRequest();
○             break;
○
○         case 3:
○             UserDataRemoveRequest();
○             break;
○
○         case 4:
○             ShowRecentlyOrderRequest();
○             break;
○     }
○ }
```



C CODE

```
○ void DataController(ReceivedCmd rcmd)
○ {
○     switch(rcmd.iType){
○         case 0:
○             WarningControl();
○             break;
○         case 1:
○             Alarm();
○             break;
○         case 2:
○             RecommendCoffeeInfo();
○             break;
○         case 3:
○             CompleteDelete();
○             break;
○     }
○ }
```





COFFEEMAKER SYSTEM SD

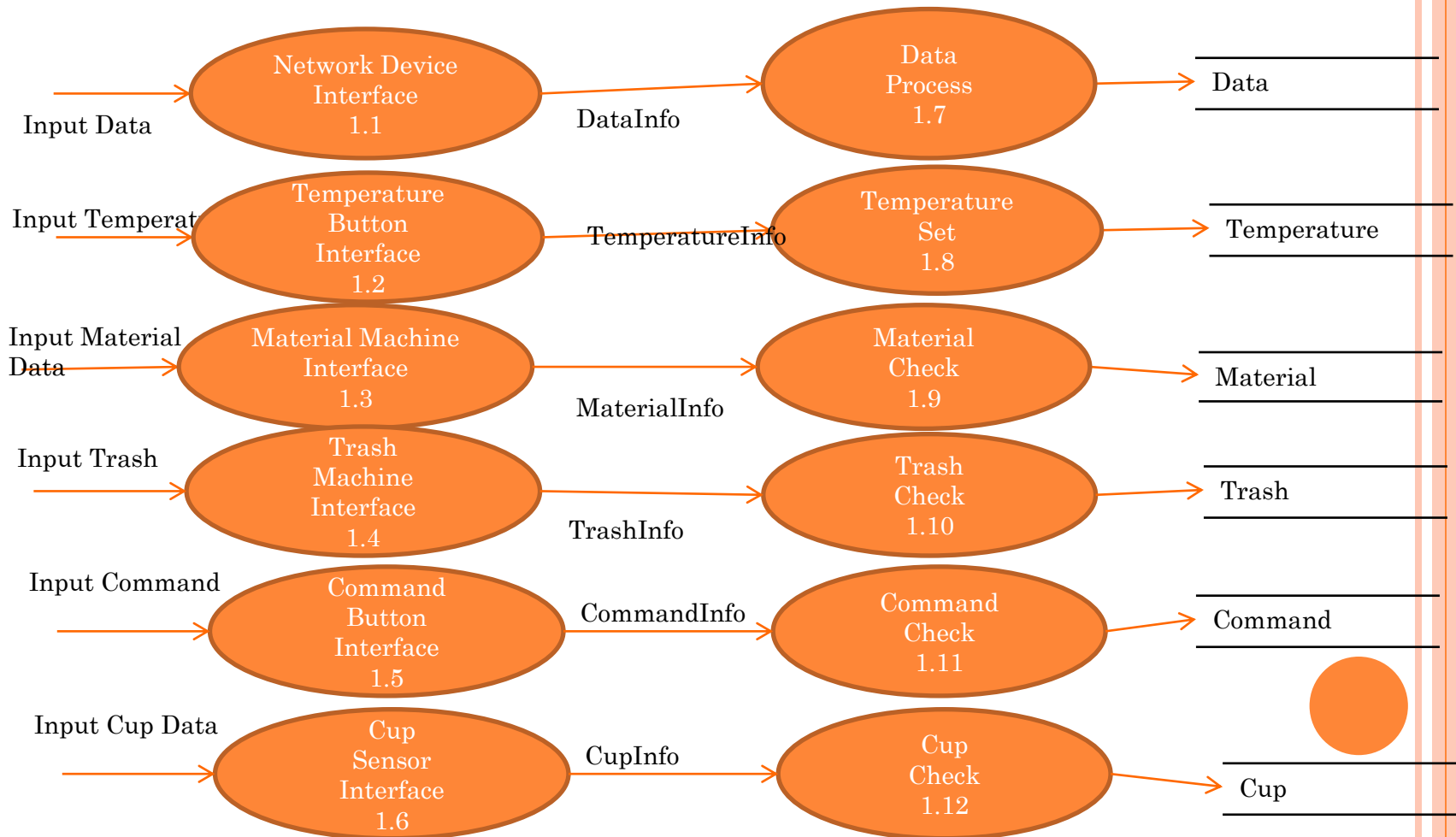
Transform Analysis

Structured Charts

C Code

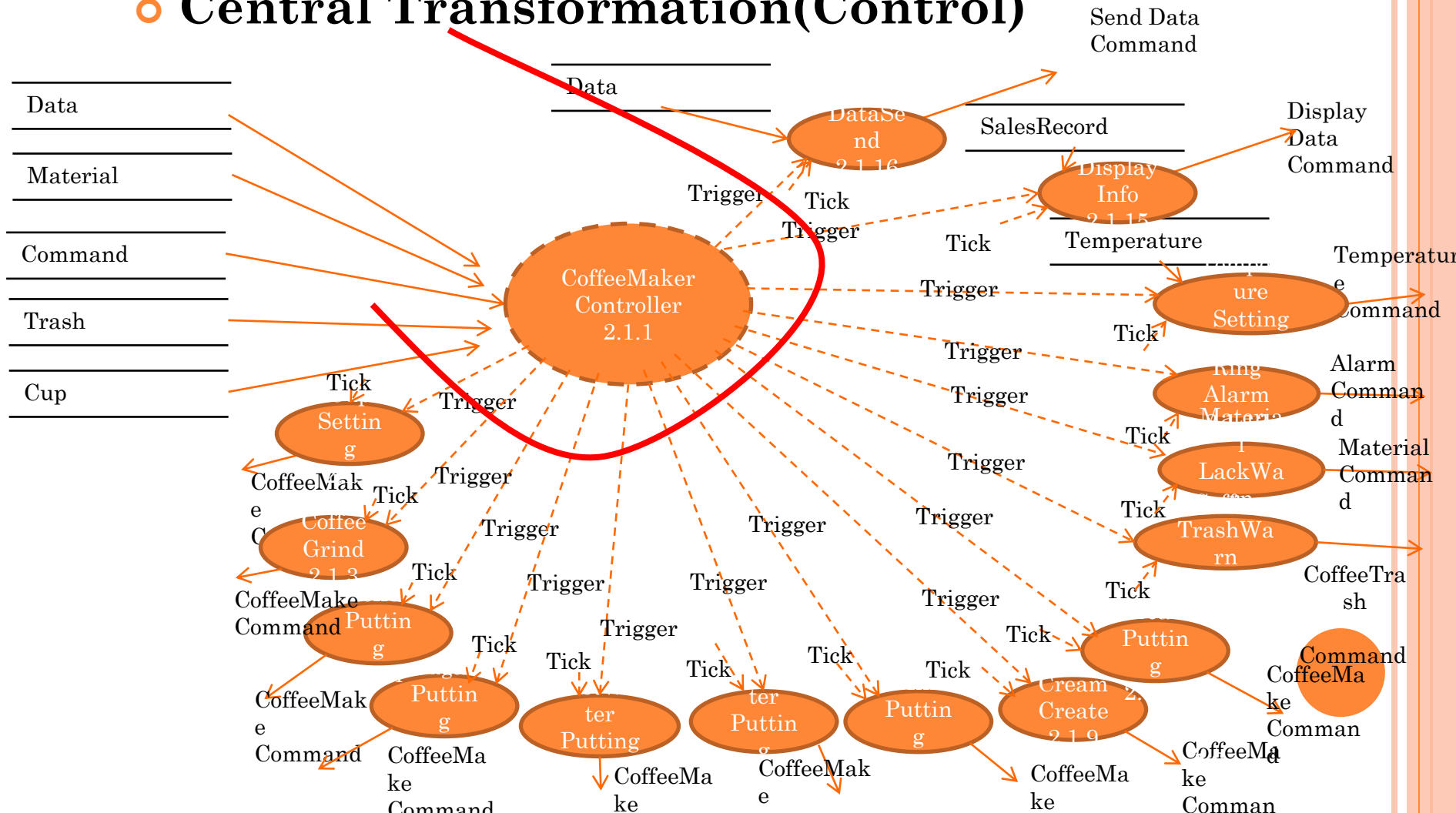
TRANSFORM ANALYSIS

○ Afferent Flow(Input)



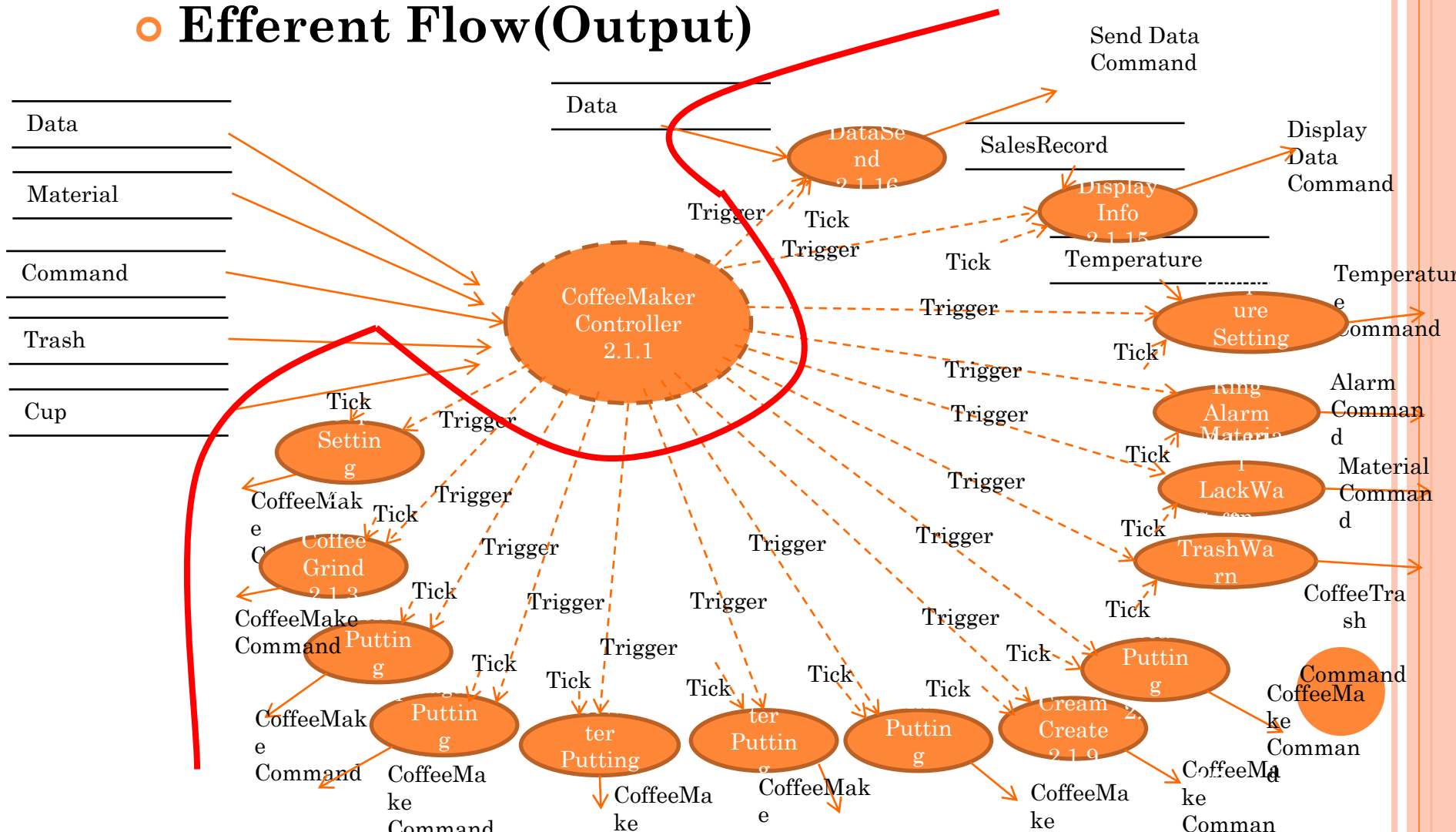
TRANSFORM ANALYSIS

Central Transformation(Control)



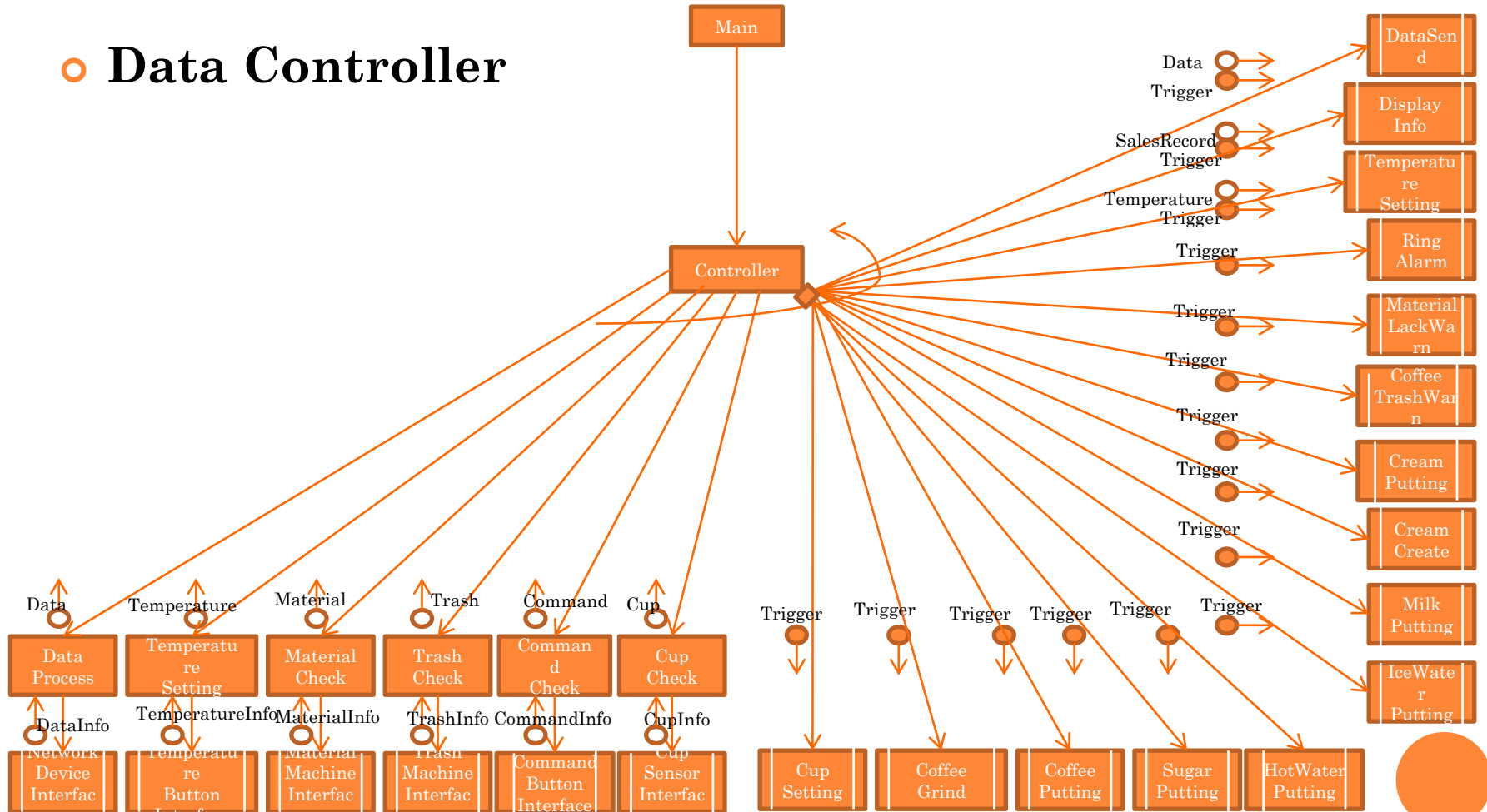
TRANSFORM ANALYSIS

○ Efferent Flow(Output)



STRICTURED CJARTS

○ Data Controller



C CODE

- typedef struct CoffeeH
- {
- char szName[MAX_STRING];
- float fCalorie;
- int iPrice;
- BOOL bHot;
- BOOL bCream;
- int iCupSize;
- }Coffee;

- typedef struct Order
- {
- BOOL isTakeOut;
- int iOrder_num;
- Coffee kCoffeeList[LIST_COUNT];
- }Order;



C CODE

```
○ if( (Cof.Step == 0) && C && !Co && !Tr && !Ma)
○ {
○     //컵세팅
○     Cup_Setting(T);
○     Cof.Step++;
○ }
○ else if((Cof.Step == 1) && !Co)
○ {
○     //커피갈기
○     Coffee_Grind(T);
○     Cof.Step++;
○ }
○ else if((Cof.Step == 2) && !Co)
○ {
○     //커피넣기
○     Coffee_Putting(T);
○     Cof.Step++;
○ }
```





DB SYSTEM SD

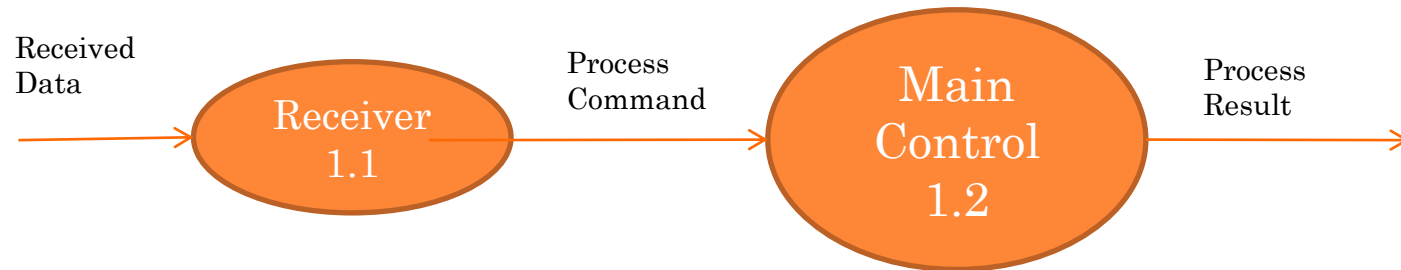
Transform Analysis

Structured Charts

C Code

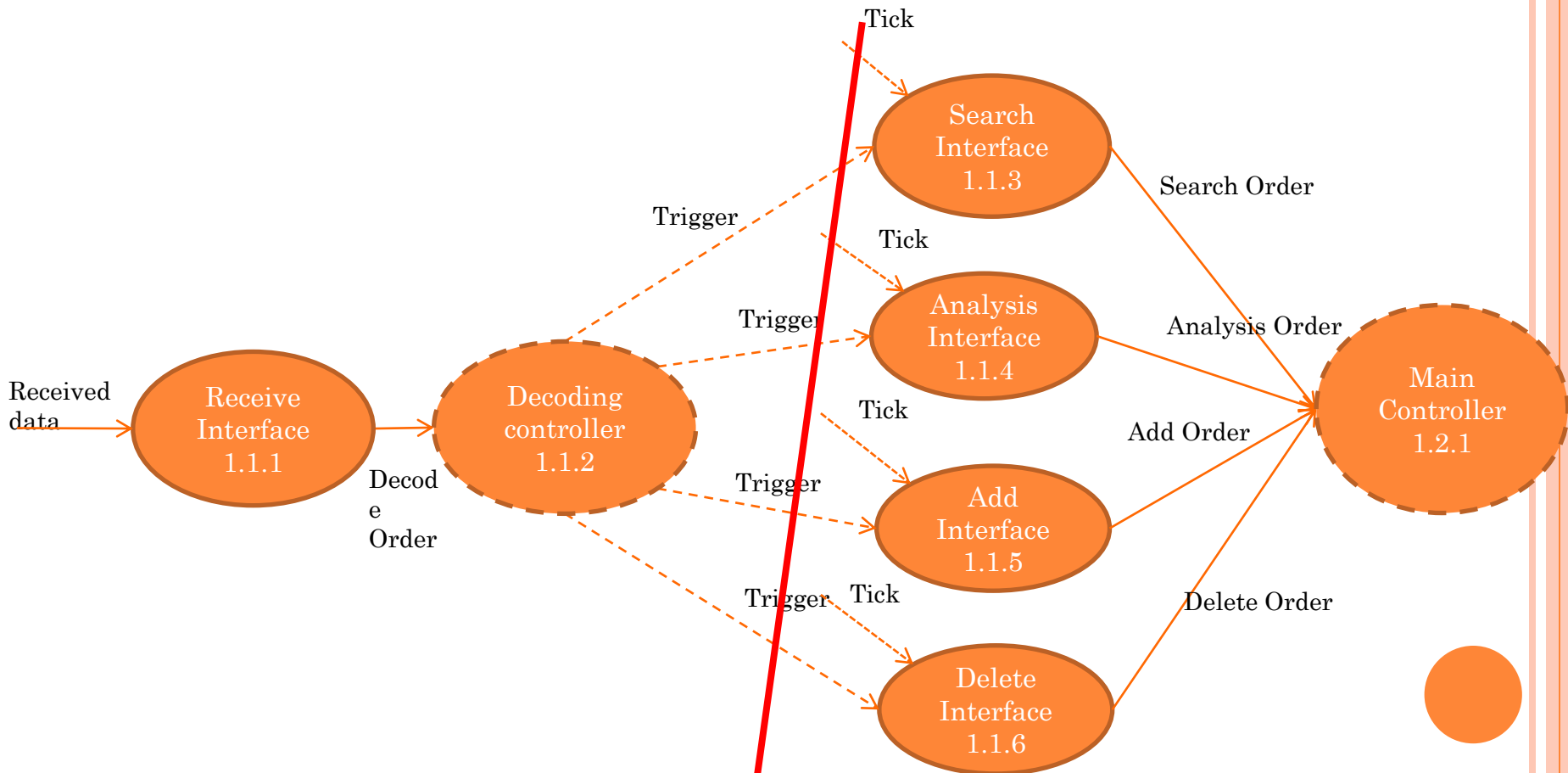
TRANSFORM ANALYSIS

- **Afferent Flow(Input)**



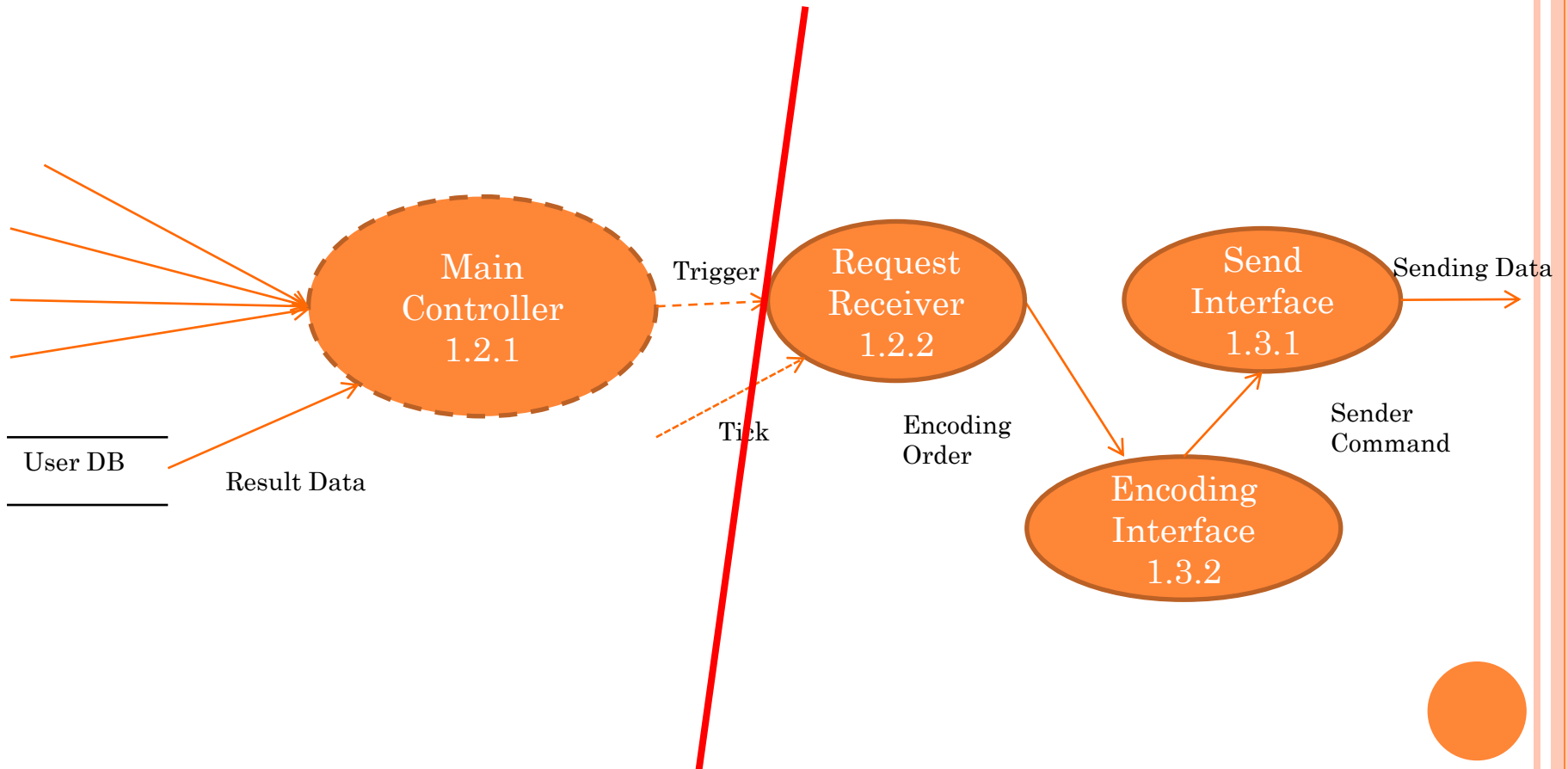
TRANSFORM ANALYSIS

Central Transformation(Control)



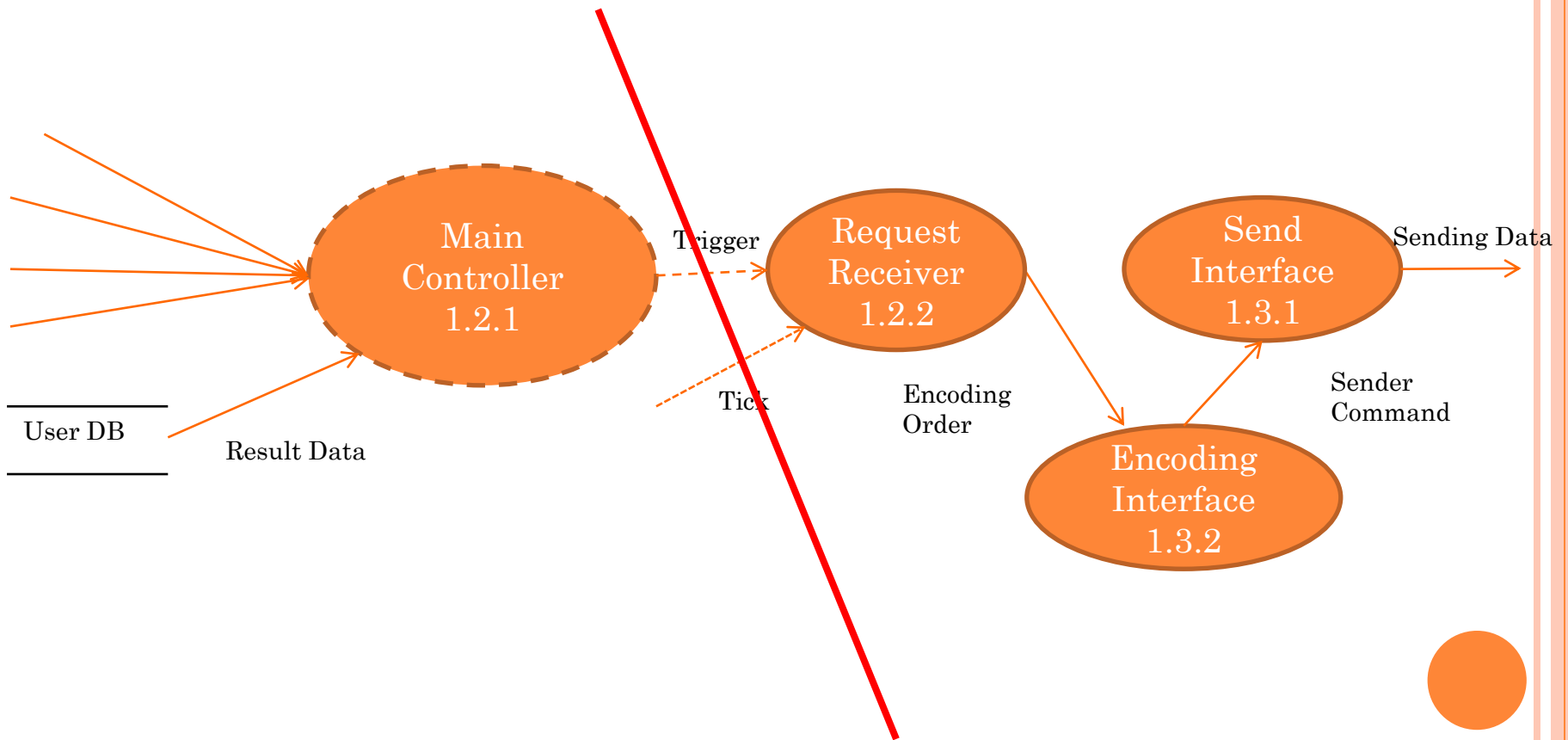
TRANSFORM ANALYSIS

○ Central Transformation(Control)



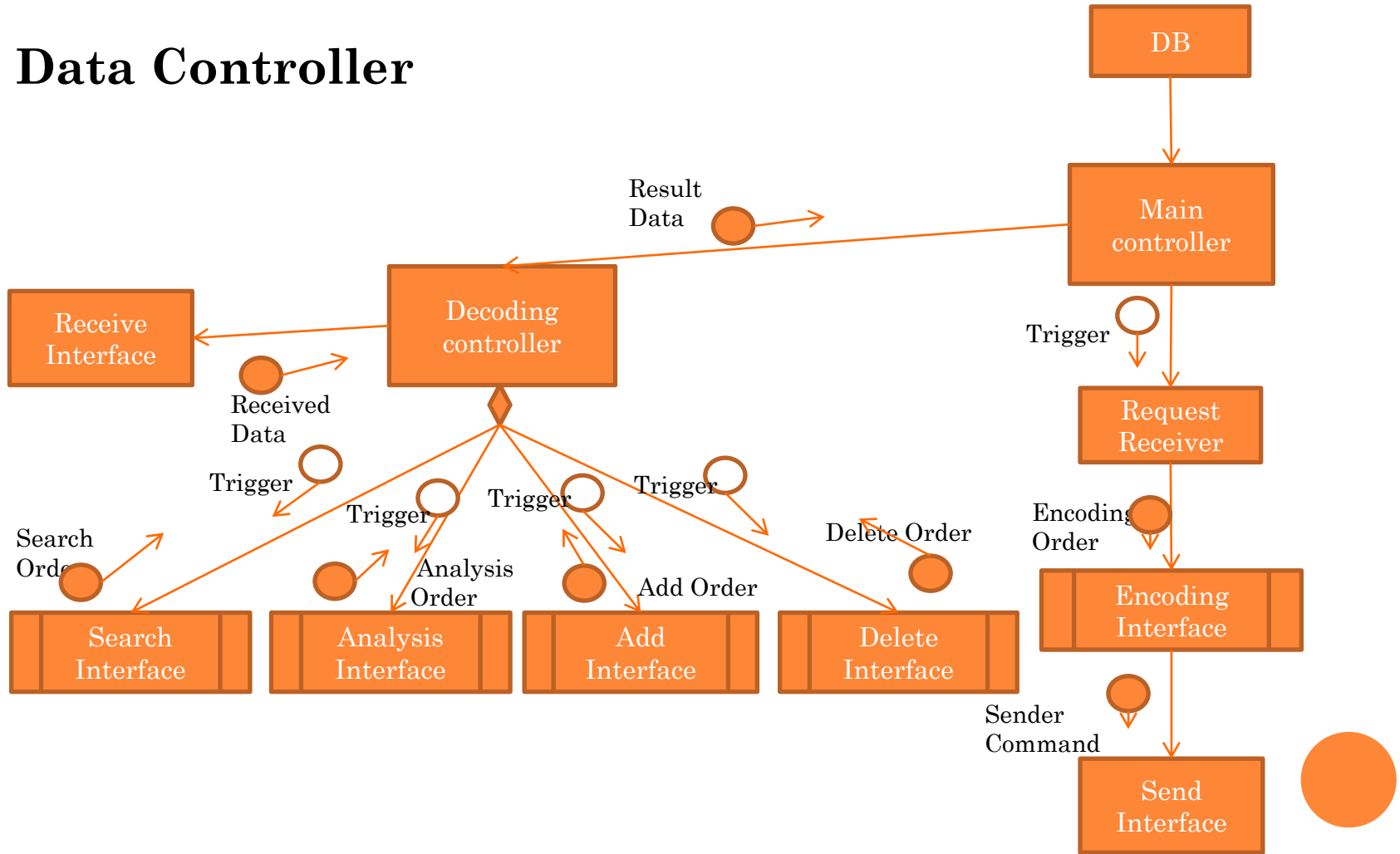
TRANSFORM ANALYSIS

- Efferent Flow(Output)



STRICTIRED CJARTS

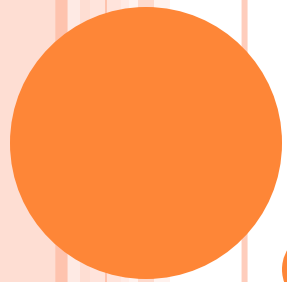
○ Data Controller



C CODE

```
○ switch(num)
○ {
○     case 1:
○         searchOrder=Search_interface(data);
○         return searchOrder;
○     case 2:
○         analysisOrder=Analysis_interface(data);
○
○         return analysisOrder;
○     case 3:
○         addOrder=Add_interface(data);
○         if(addOrder)
○             return "true";
○         else
○             return "false";
○     case 4:
○         deleteOrder=Delete_interface(data);
○         if(deleteOrder)
○             return "true";
○         else
○             return "false";
○     default:
○         break;
○ }
```





END