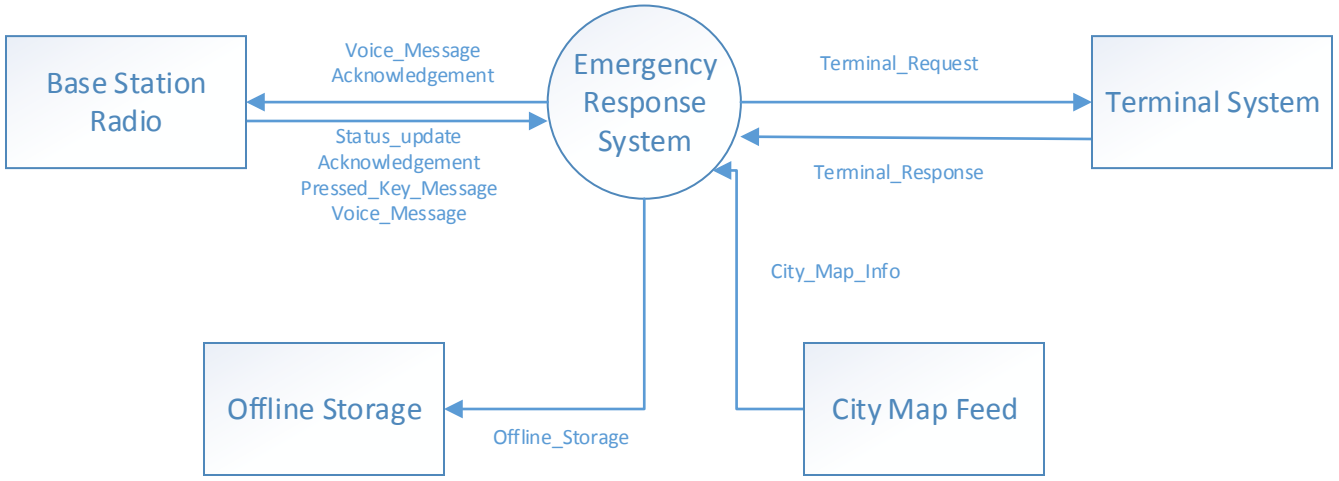
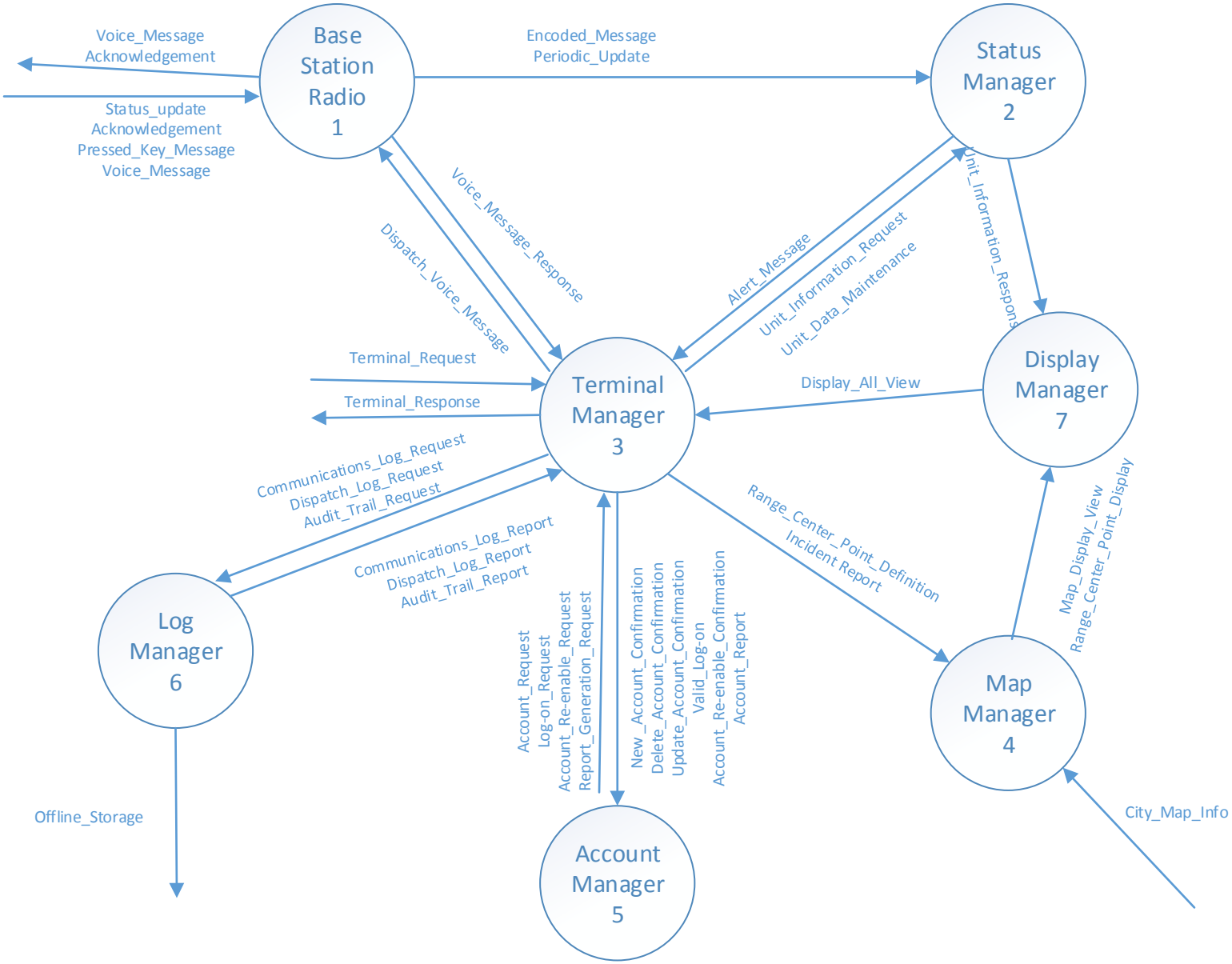
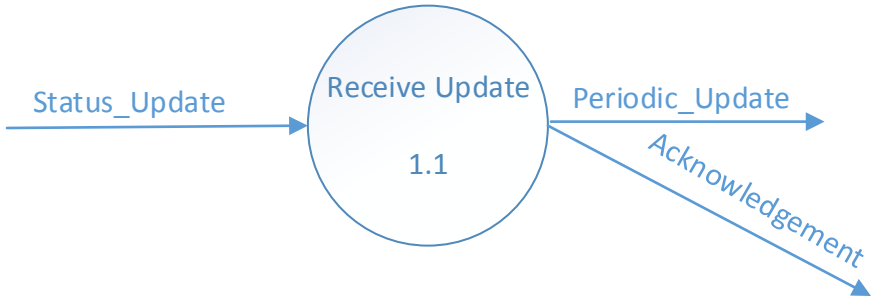
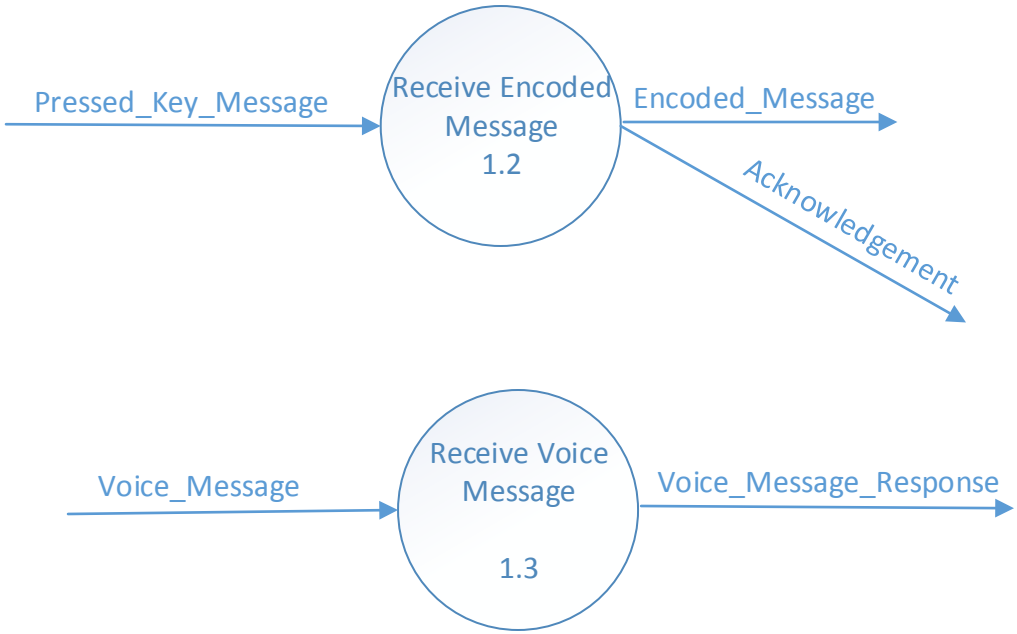
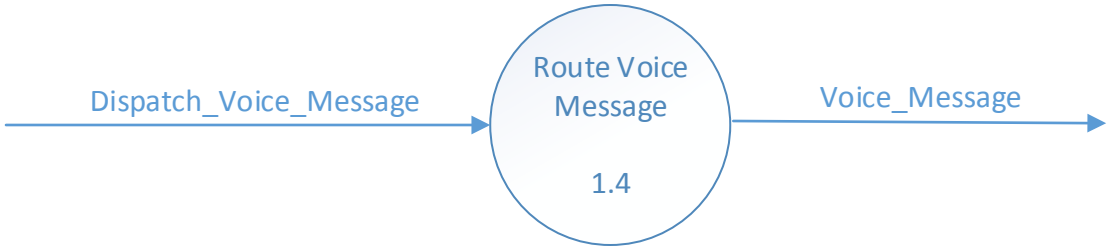
Context Diagram

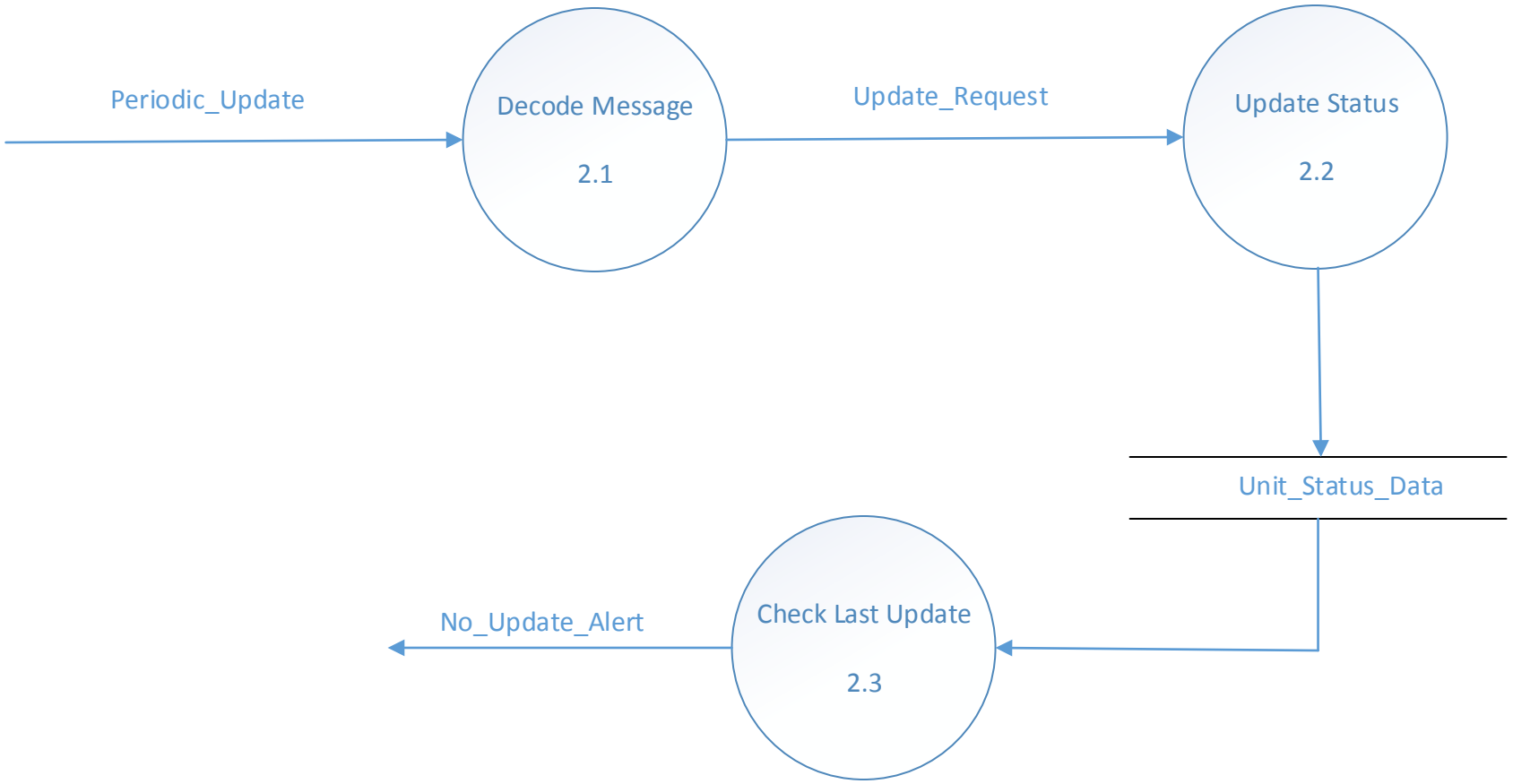


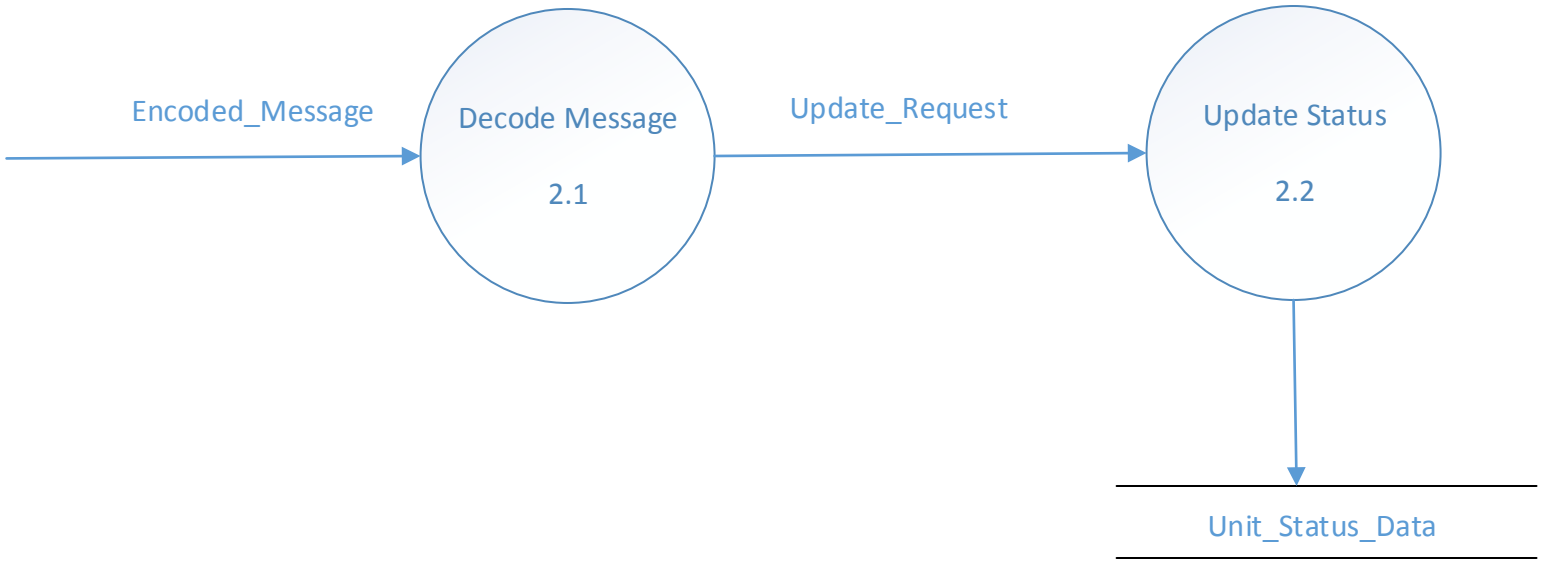

Base Station Radio 1
Status Manager 2
Terminal Manager 3
Log Manager 6
Account Manager 5
Map Manager 4
Display Manager 7
Voice_Message
Acknowledgement
Status_update
Acknowledgement
Pressed_Key_Message
Voice_Message
Encoded_Message
Periodic_Update
Voice_Message_Response
Dispatch_Voice_Message
Alert_Message
Unit_Information_Request
Unit_Data_Maintenance
Unit_Information_Respons
Terminal_Request
Terminal_Response
Display_All_View
Communications_Log_Request
Dispatch_Log_Request
Audit_Trail_Request
Communications_Log_Report
Dispatch_Log_Report
Audit_Trail_Report
Account_Request
Log-on_Request
Account_Re-enable_Request
Report_Generation_Request
New _Account_Confirmation
Delete_Account_Confirmation
Update_Account_Confirmation
Valid_Log-on
Account_Re-enable_Confirmation
Account_Report
Range_Center_Point_Definition
Incident Report
Map_Display_View
Range_Center_Point_Display
Offline_Storage
City_Map_Info

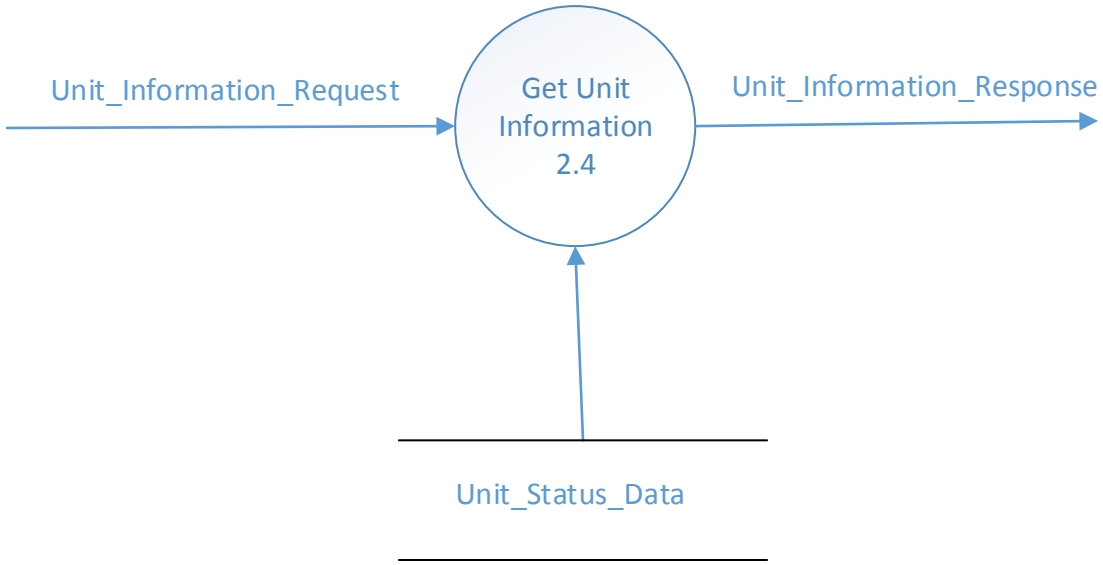

Status_Update
Receive Update
1.1
Periodic_Update
Acknowledgement

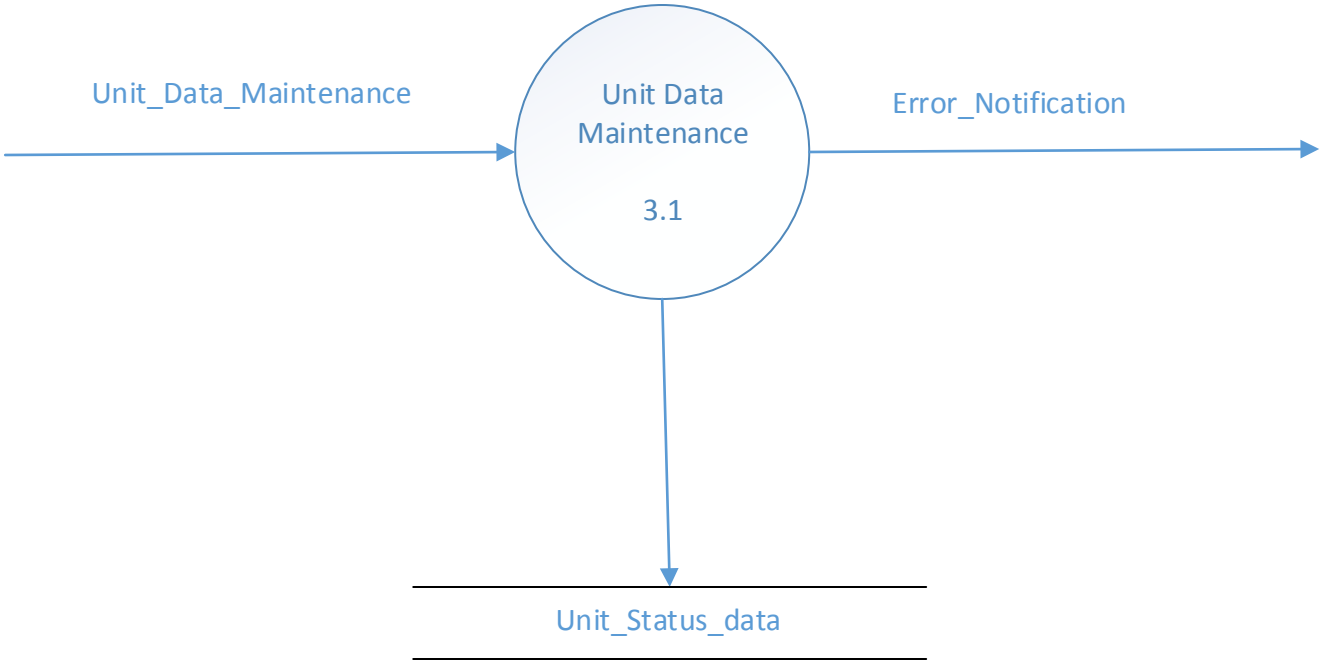

Pressed_Key_Message
Receive Encoded Message
1.2
Encoded_Message
Acknowledgement
Voice_Message
Receive Voice Message
1.3
Voice_Message_Response

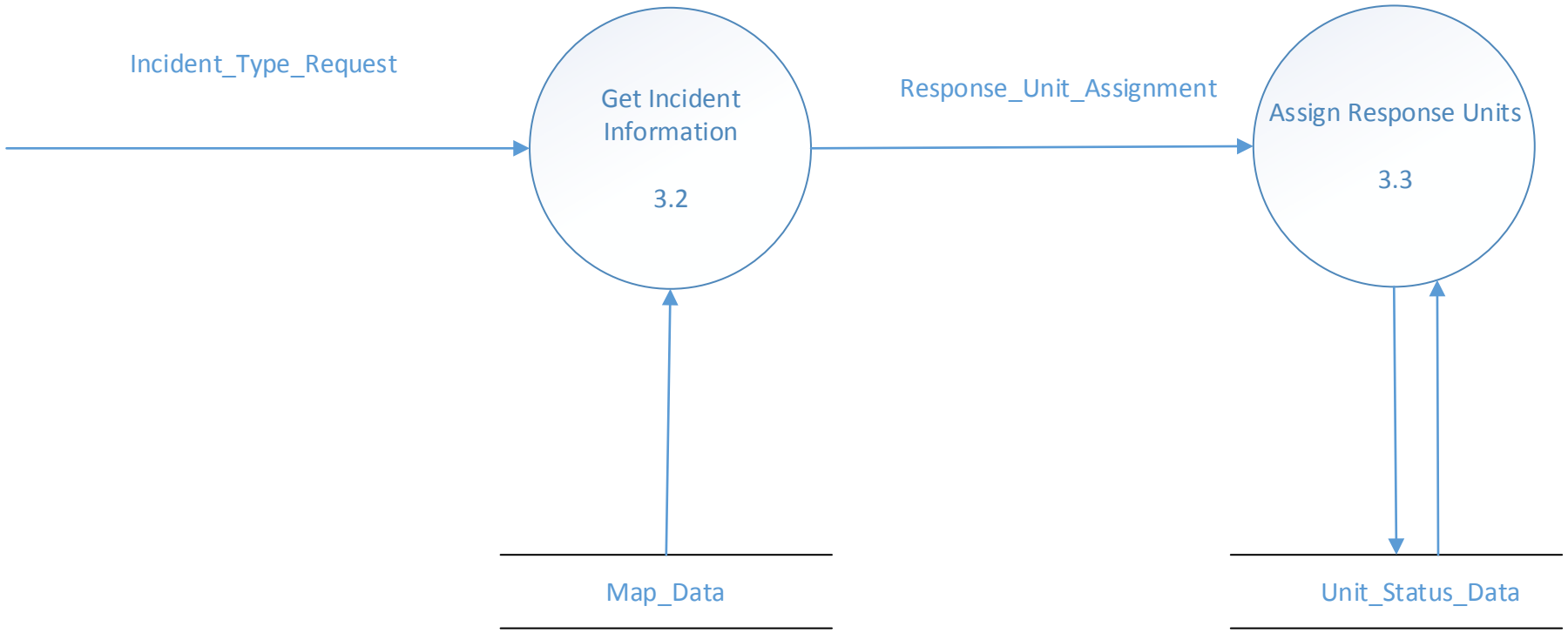

Dispatch_Voice_Message
Route Voice Message
1.4
Voice_Message

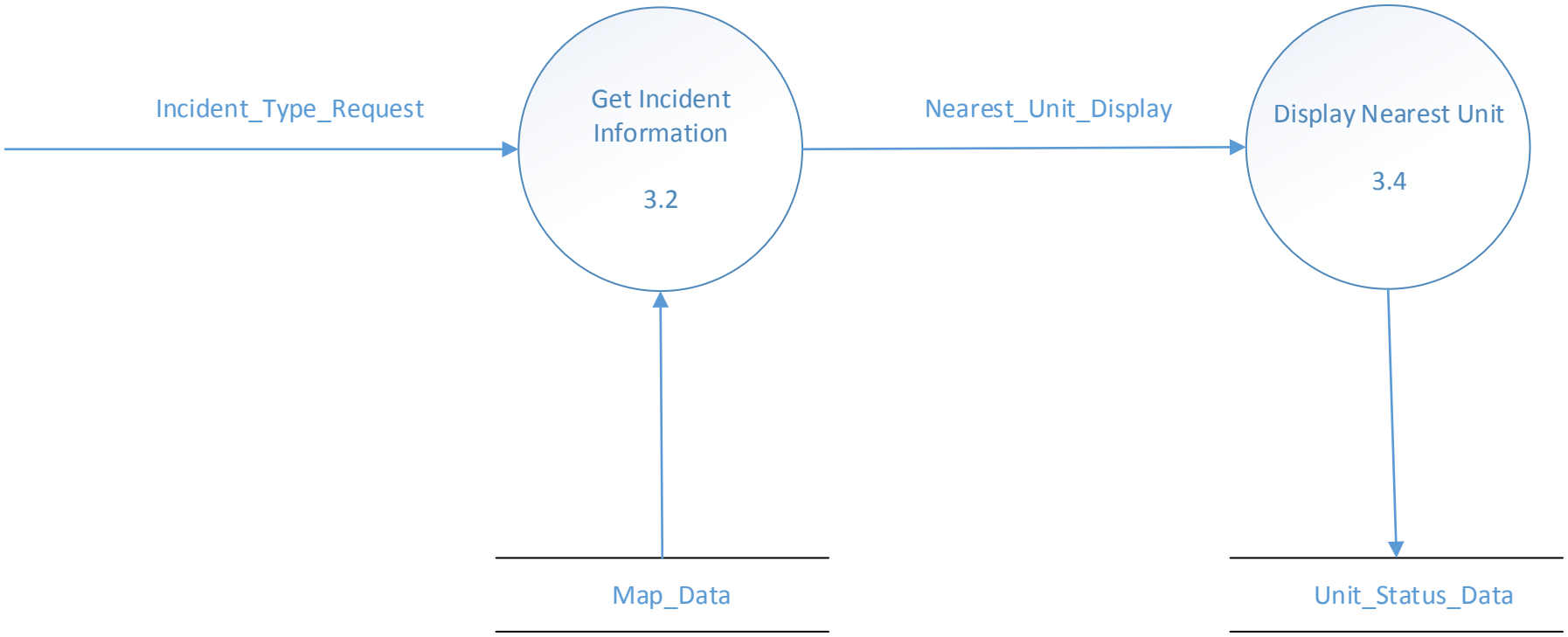

Periodic_Update
Decode Message
2.1
Update_Request
Update Status
2.2
Unit_Status_Data
Check Last Update
2.3
No_Update_Alert

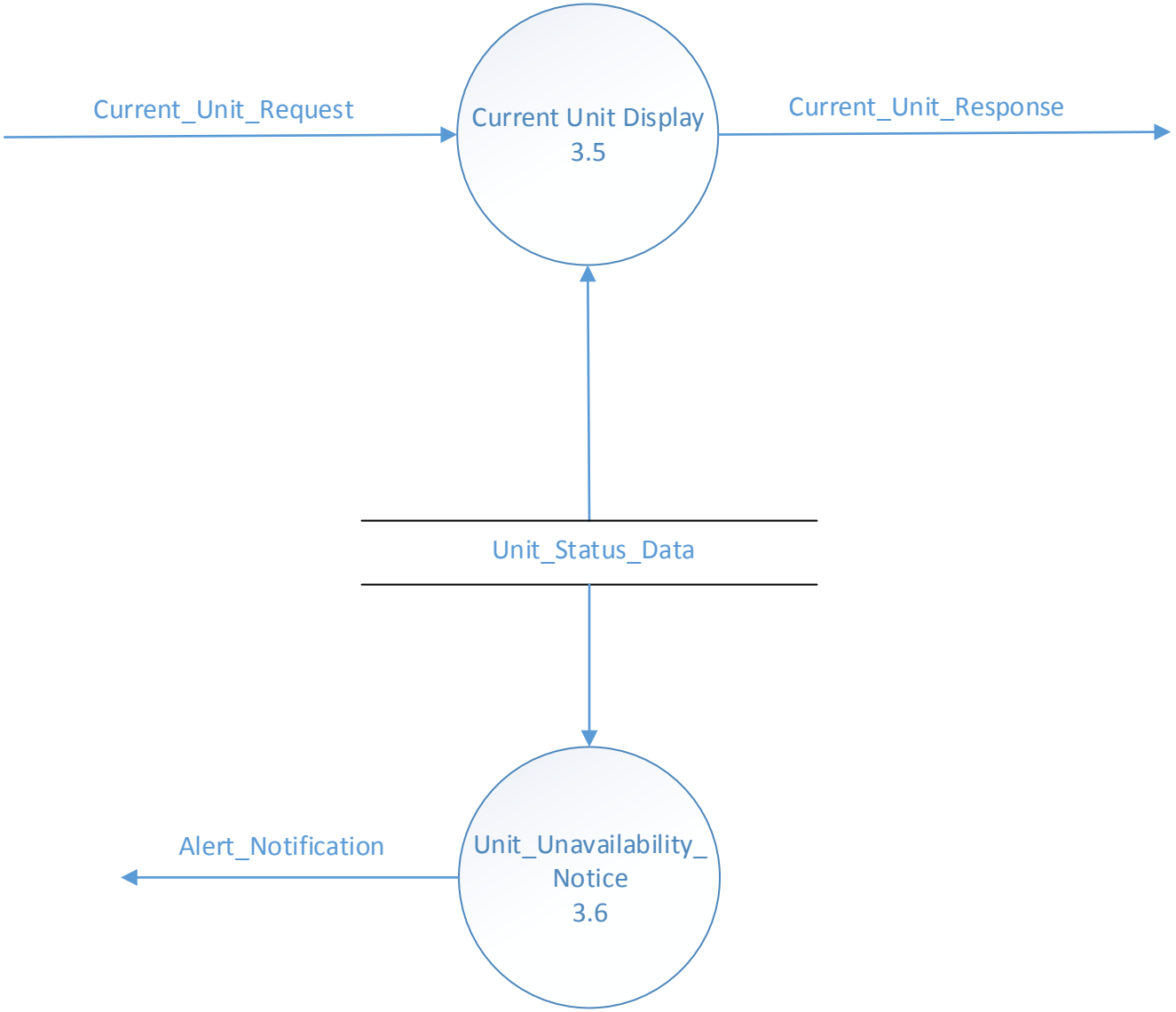

Encoded_Message
Decode Message
2.1
Update_Request
Update Status
2.2
Unit_Status_Data

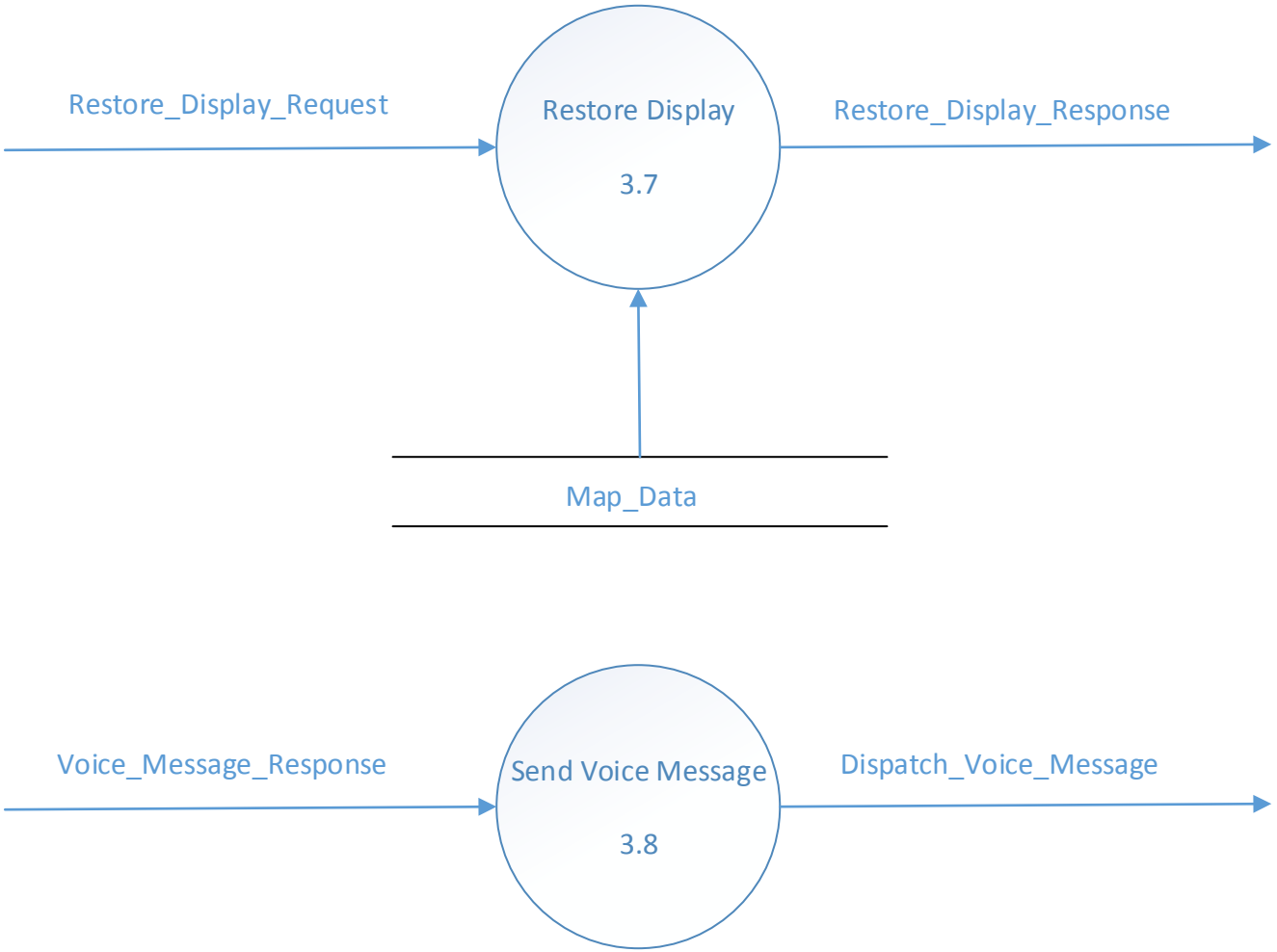

Unit_Information_Request
Get Unit Information 2.4
Unit_Information_Response
Unit_Status_Data

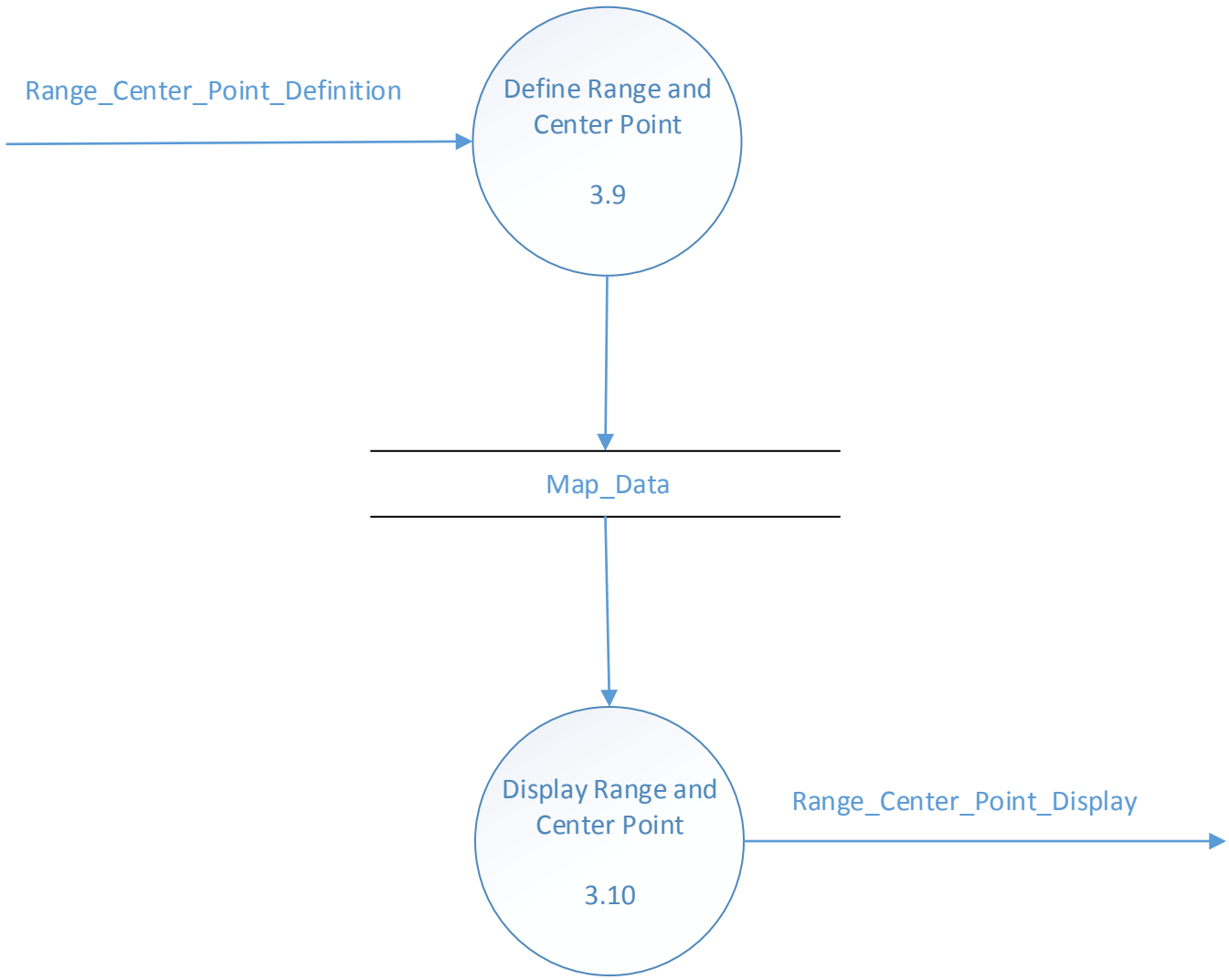

Unit_Data_Maintenance
Unit Data Maintenance
3.1
Error_Notification
Unit_Status_data

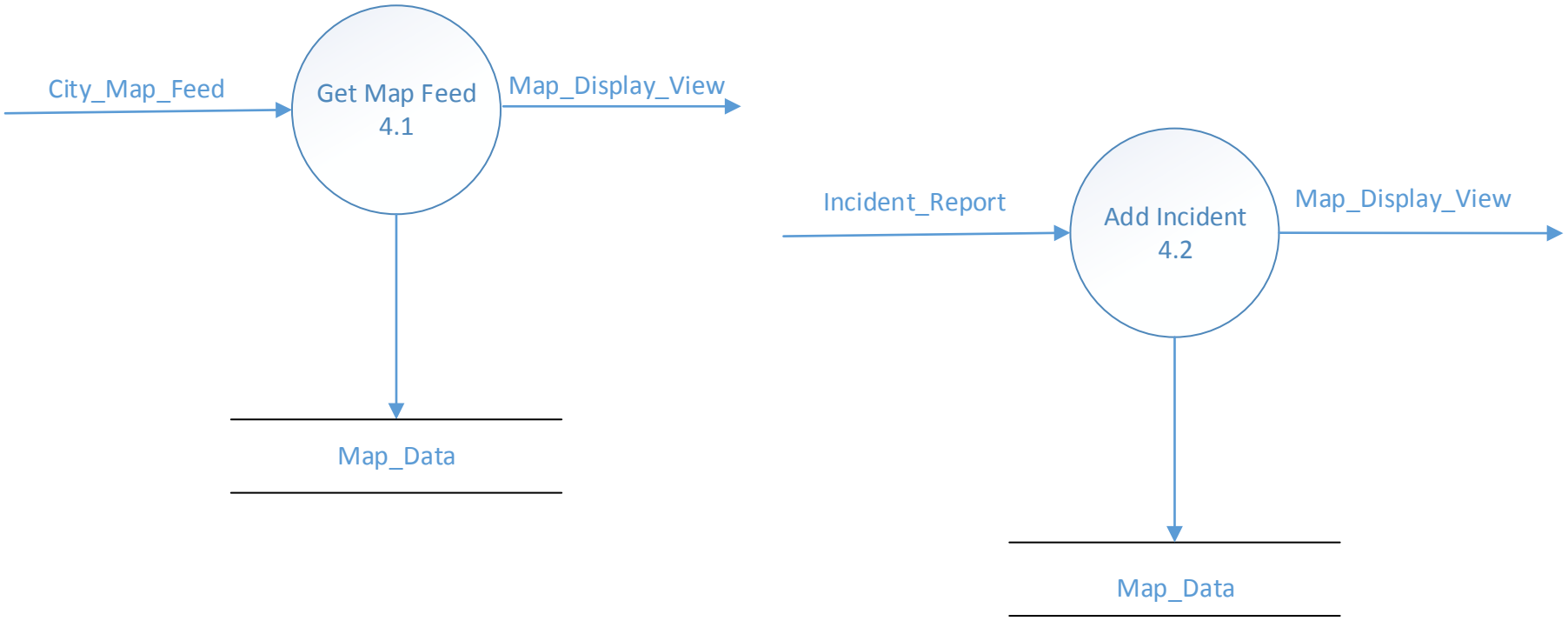

Incident_Type_Request
Get Incident Information
3.2
Response_Unit_Assignment
Assign Response Units
3.3
Map_Data
Unit_Status_Data

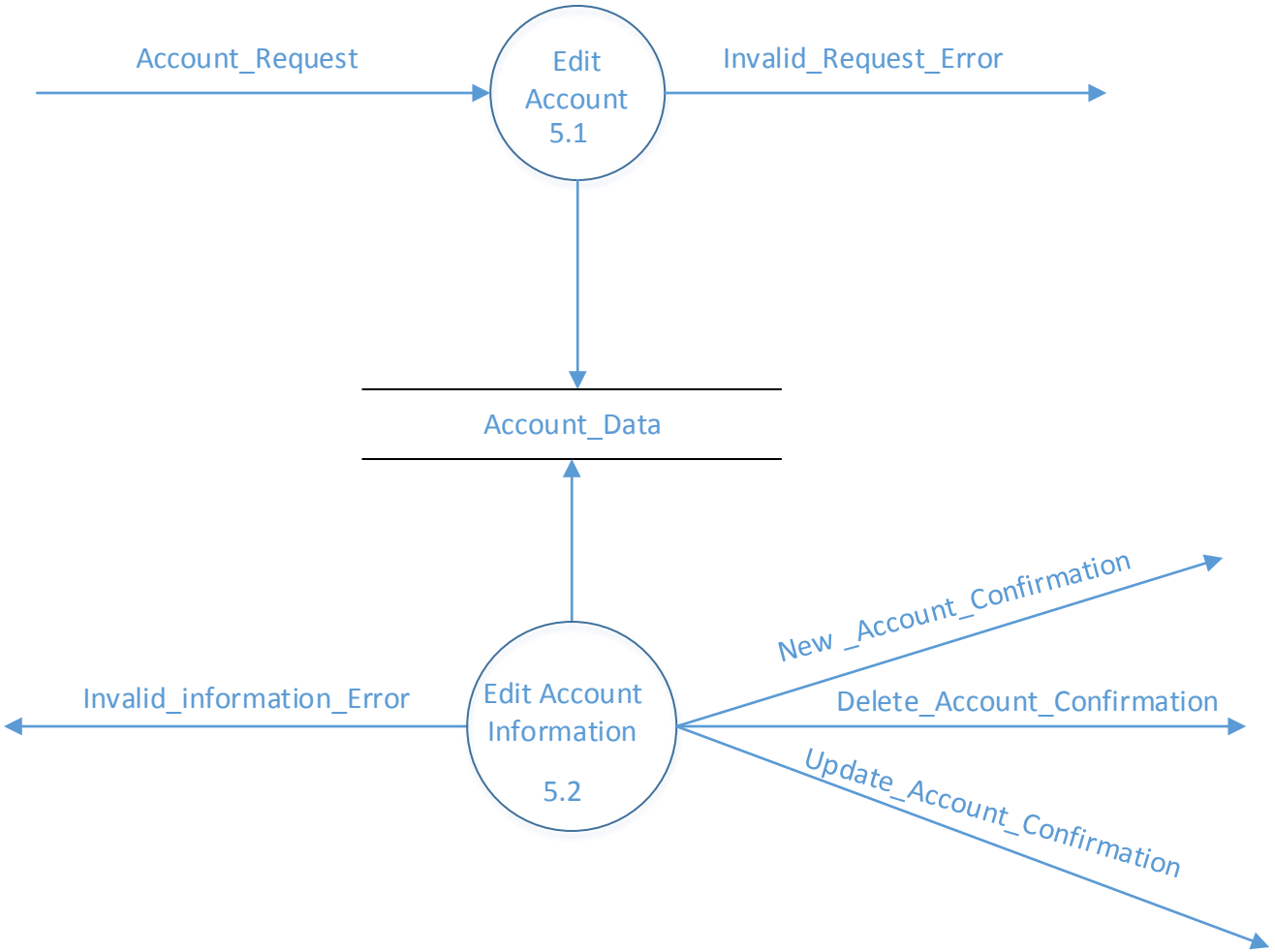

Incident_Type_Request
Get Incident Information
3.2
Nearest_Unit_Display
Display Nearest Unit
3.4
Map_Data
Unit_Status_Data

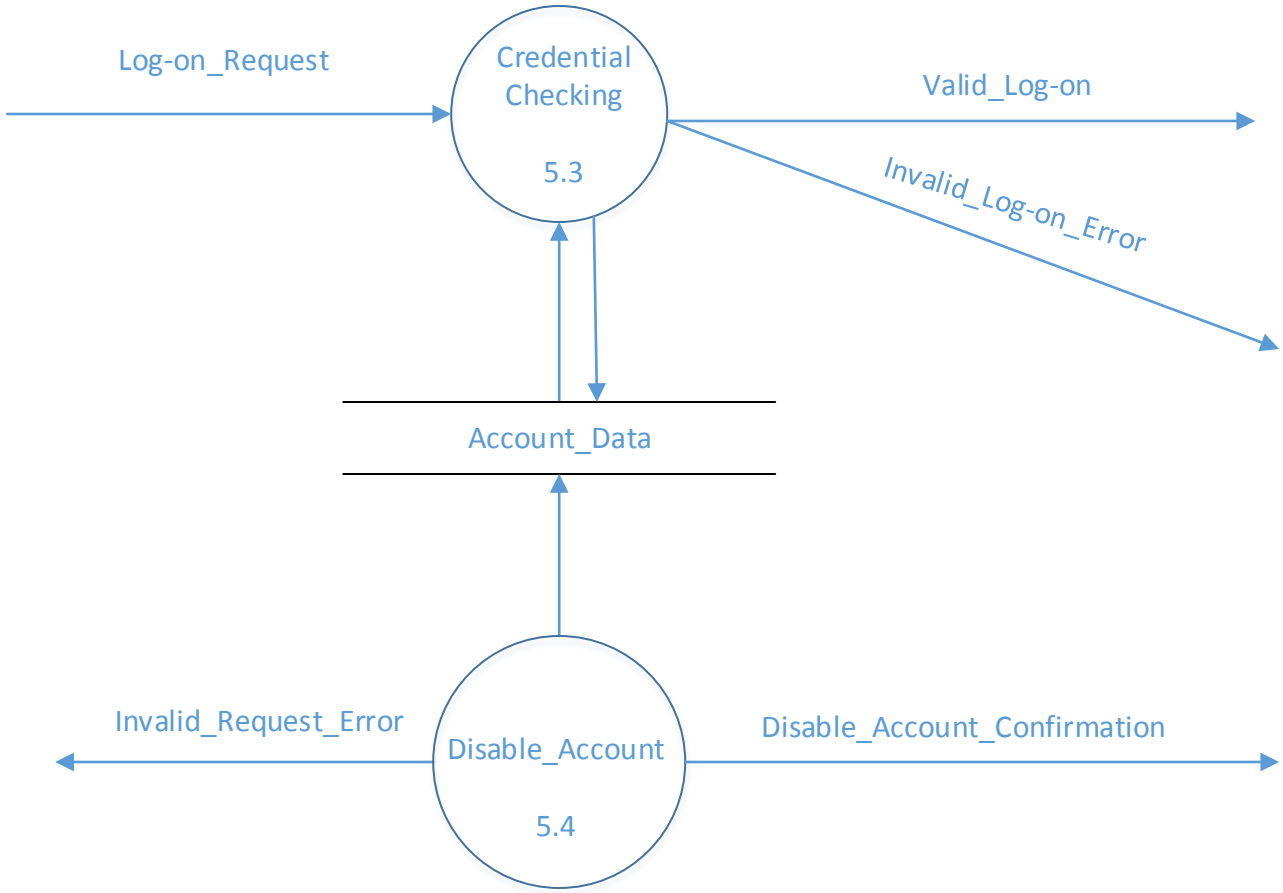

Current_Unit_Request
Current Unit Display
3.5
Current_Unit_Response
Unit_Status_Data
Alert_Notification
Unit_Unavailability_
Notice
3.6

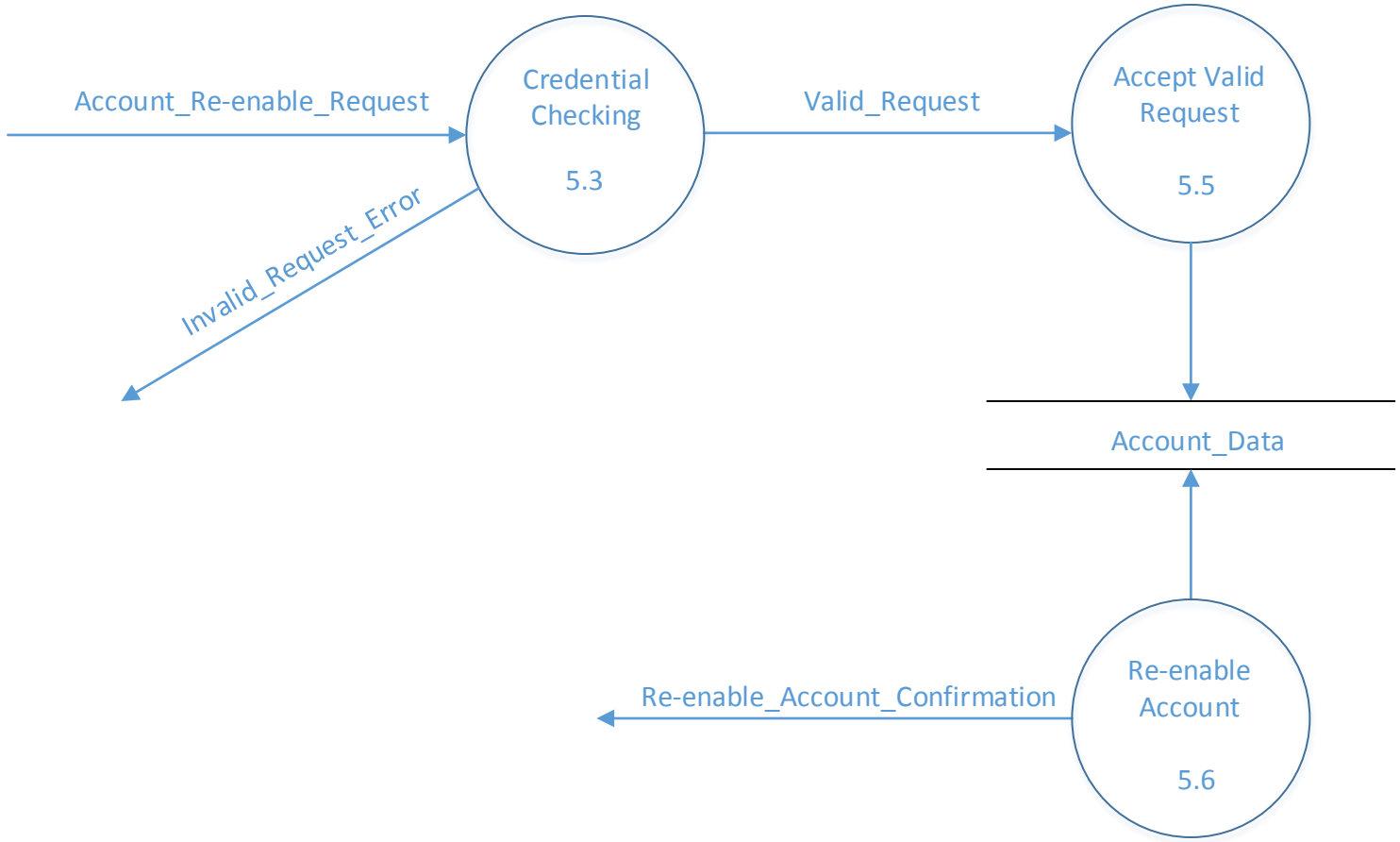

Restore_Display_Request
Restore Display
3.7
Restore_Display_Response
Map_Data
Voice_Message_Response
Send Voice Message
3.8
Dispatch_Voice_Message

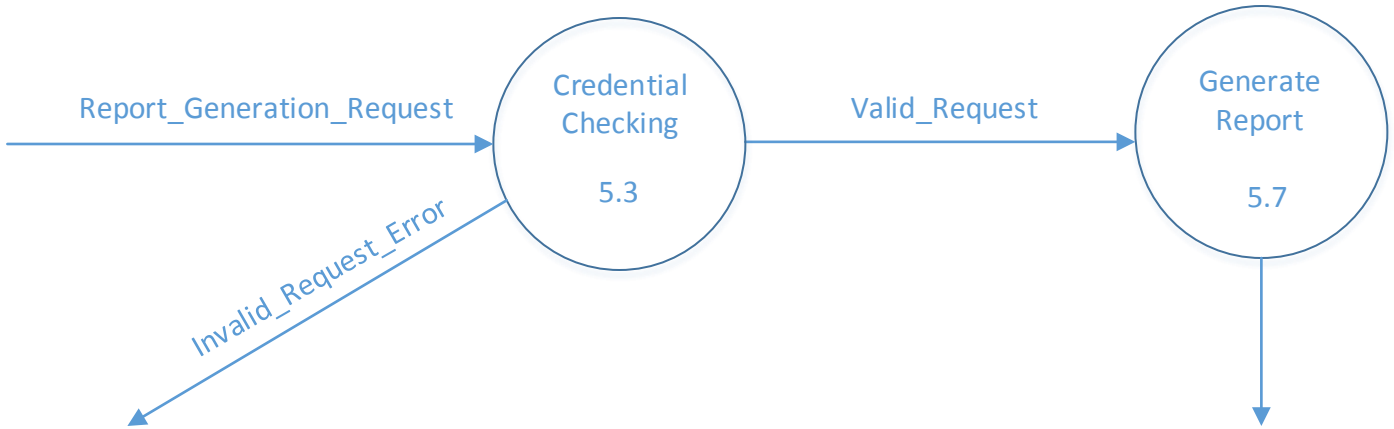

Range_Center_Point_Definition
Define Range and Center Point
3.9
Map_Data
Display Range and Center Point
3.10
Range_Center_Point_Display


City_Map_Feed
Get Map Feed
4.1
Map_Display_View
Map_Data
Incident_Report
Add Incident
4.2
Map_Display_View
Map_Data

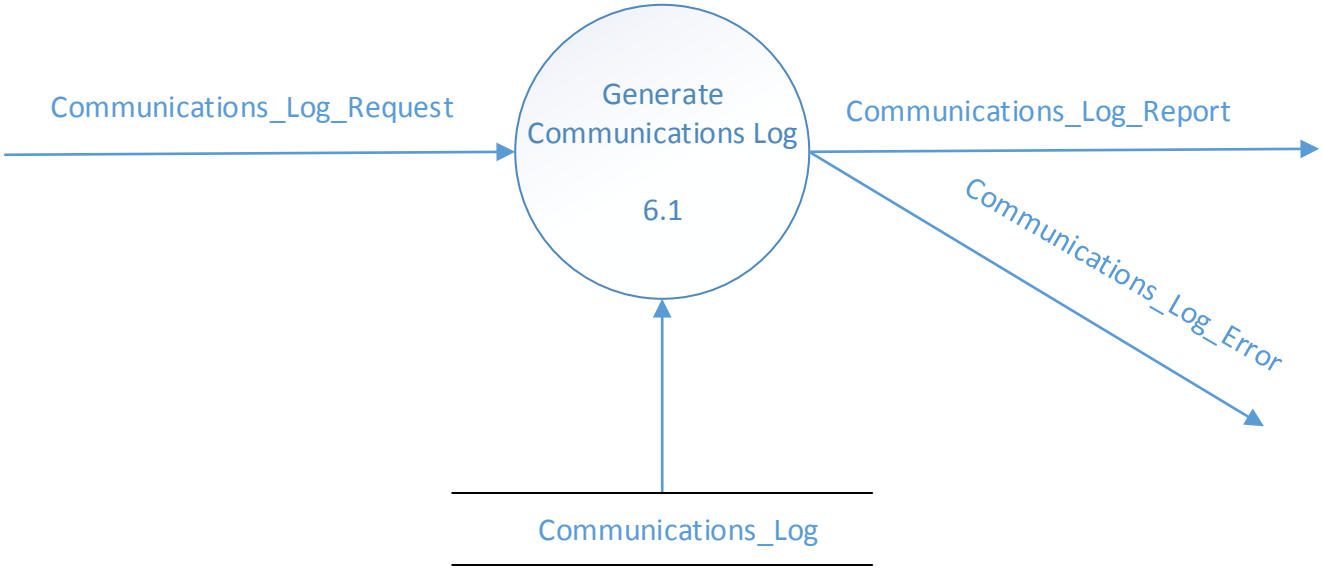

Account_Request
Edit Account 5.1
Invalid_Request_Error
Account_Data
New _Account_Confirmation
Invalid_information_Error
Edit Account Information 5.2
Delete_Account_Confirmation
Update_Account_Confirmation

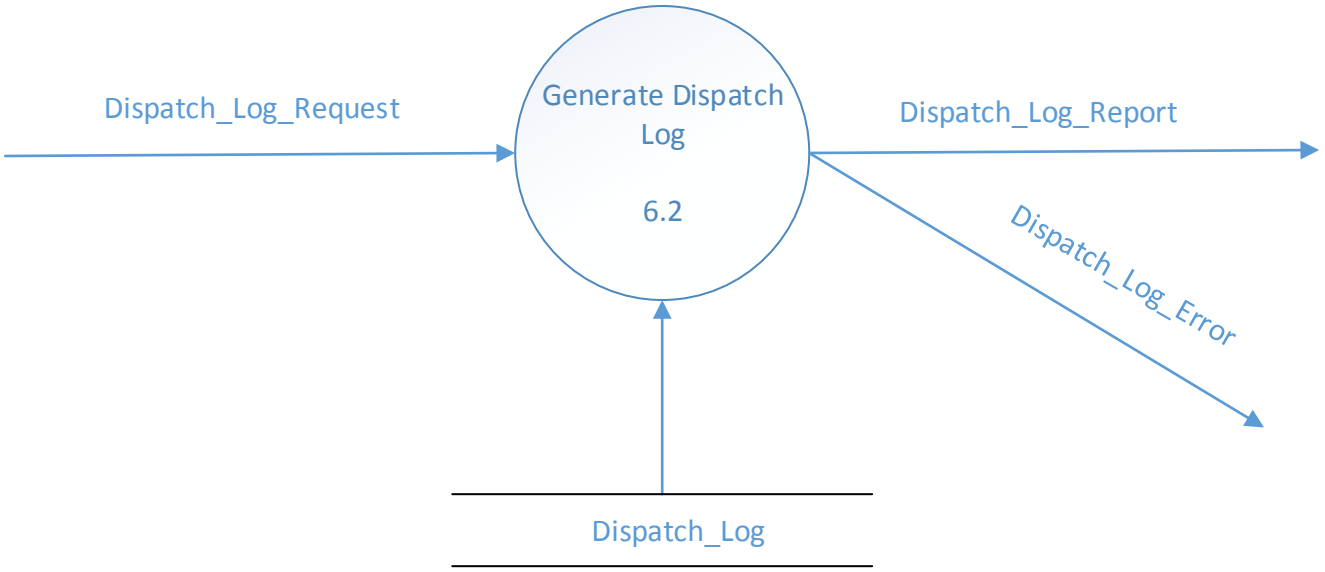

Log-on_Request
Credential Checking
5.3
Valid_Log-on
Invalid_Log-on_Error
Account_Data
Invalid_Request_Error
Disable_Account
5.4
Disable_Account_Confirmation

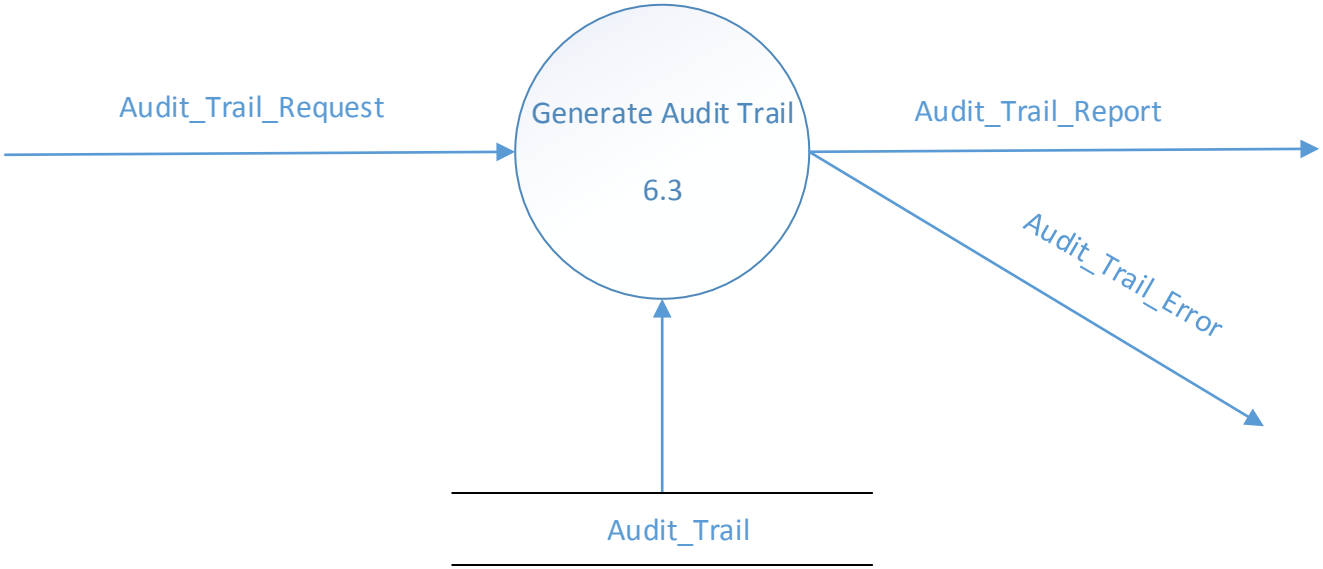

Account_Re-enable_Request
Credential Checking
5.3
Valid_Request
Accept Valid Request
5.5
Invalid_Request_Error
Account_Data
Re-enable_Account_Confirmation
Re-enable Account
5.6

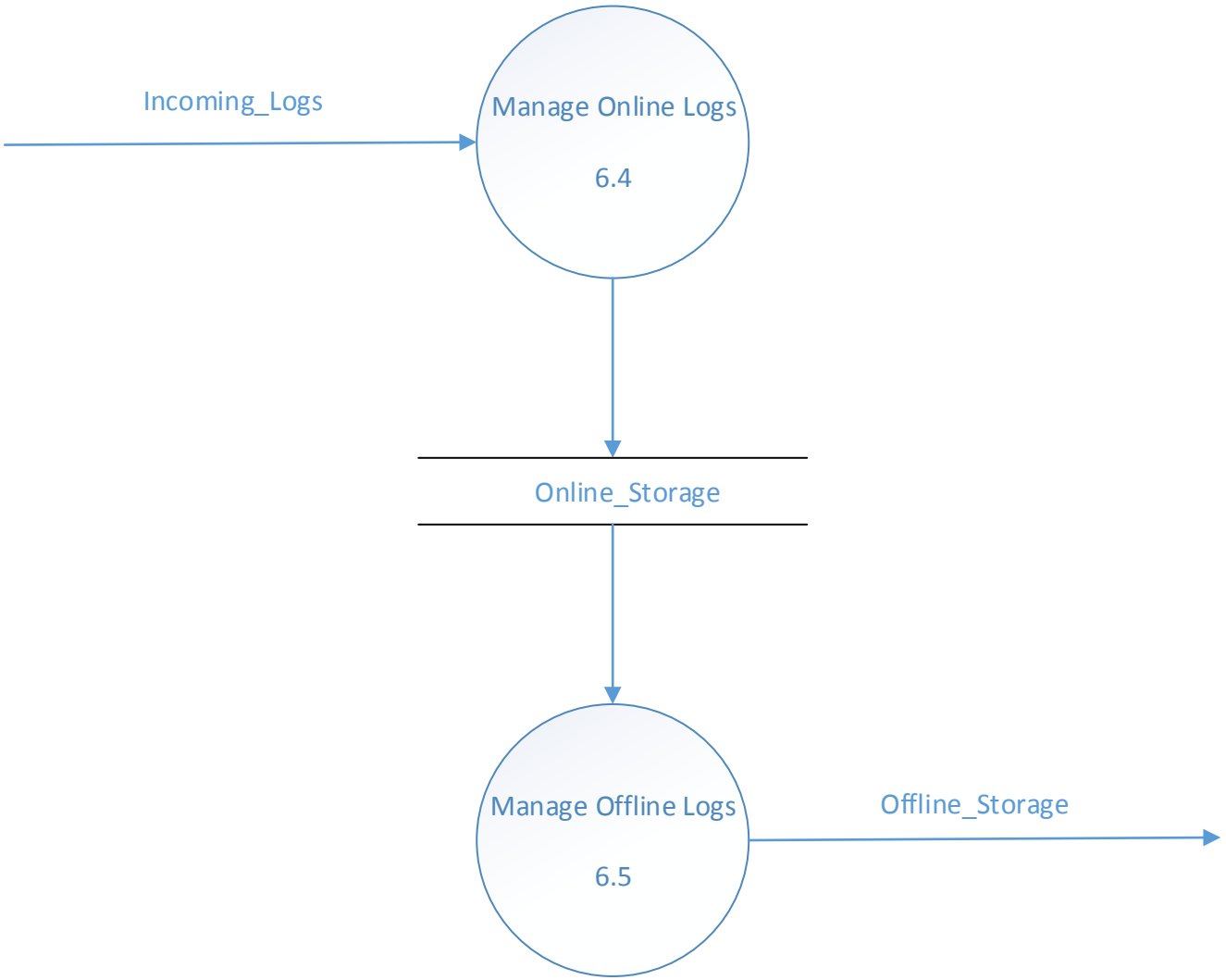


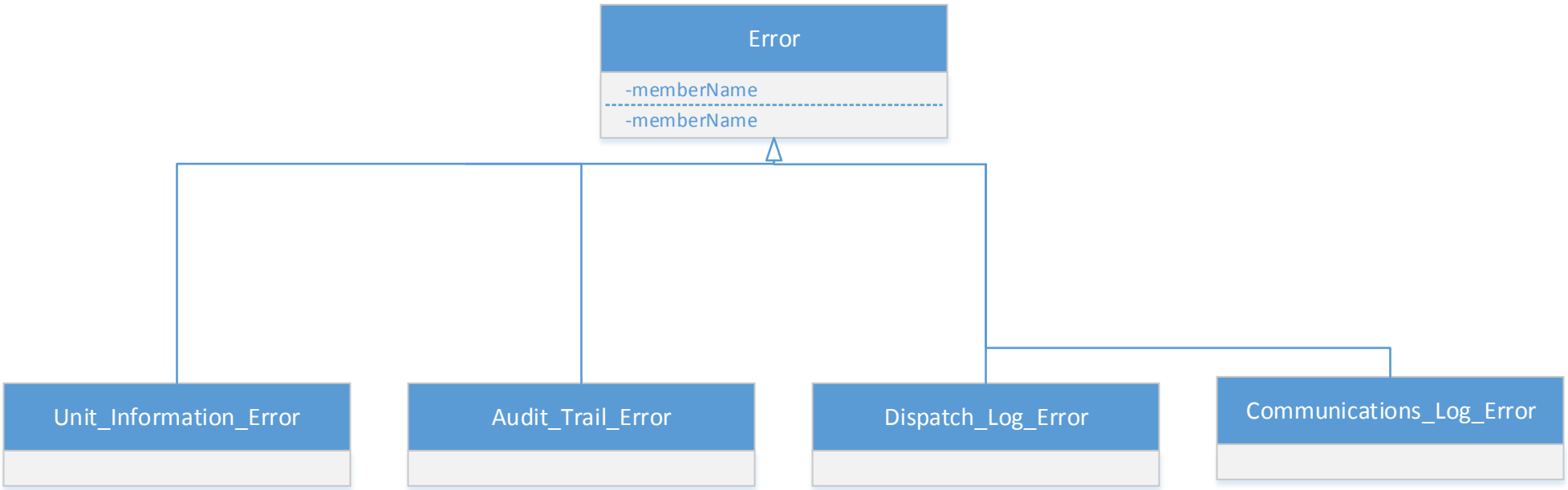
Account_Report

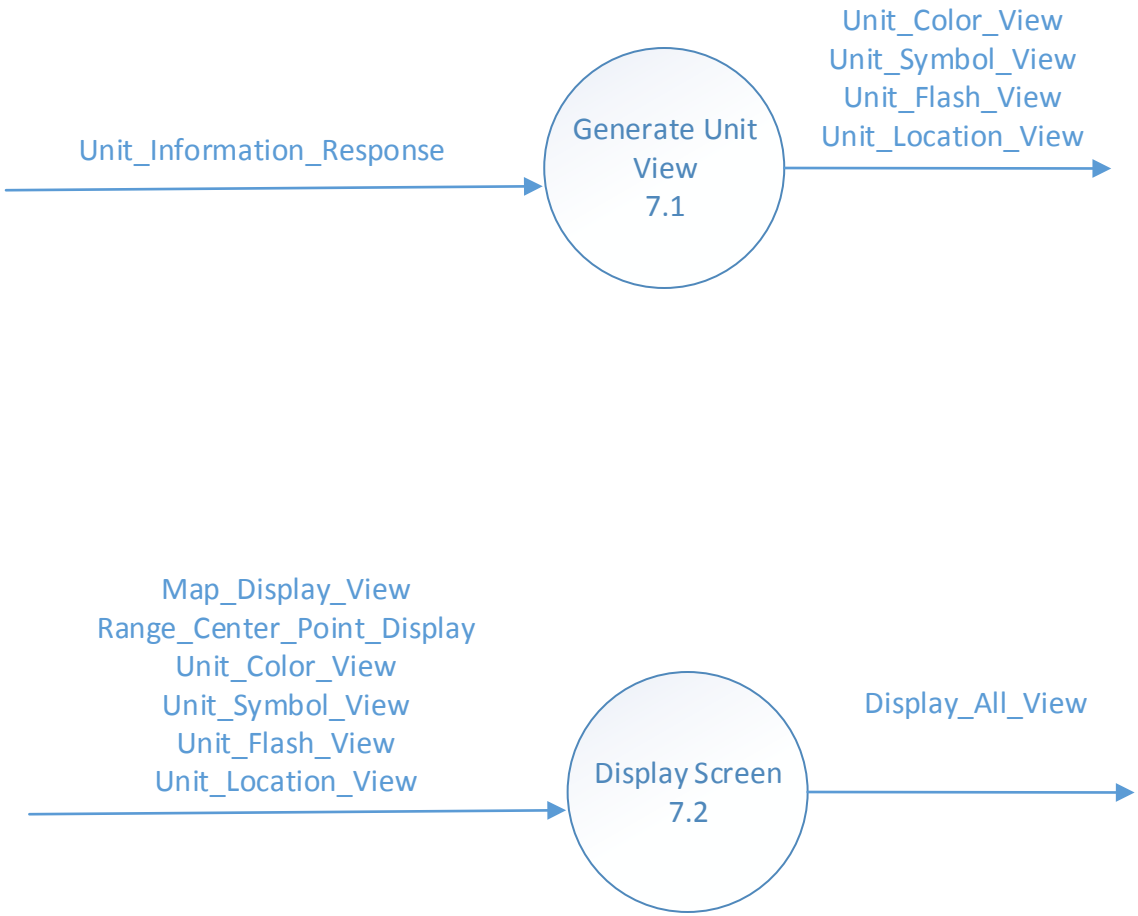

Communications_Log_Request
Generate
Communications Log
6.1
Communications_Log_Report
Communications_Log_Error
Communications_Log

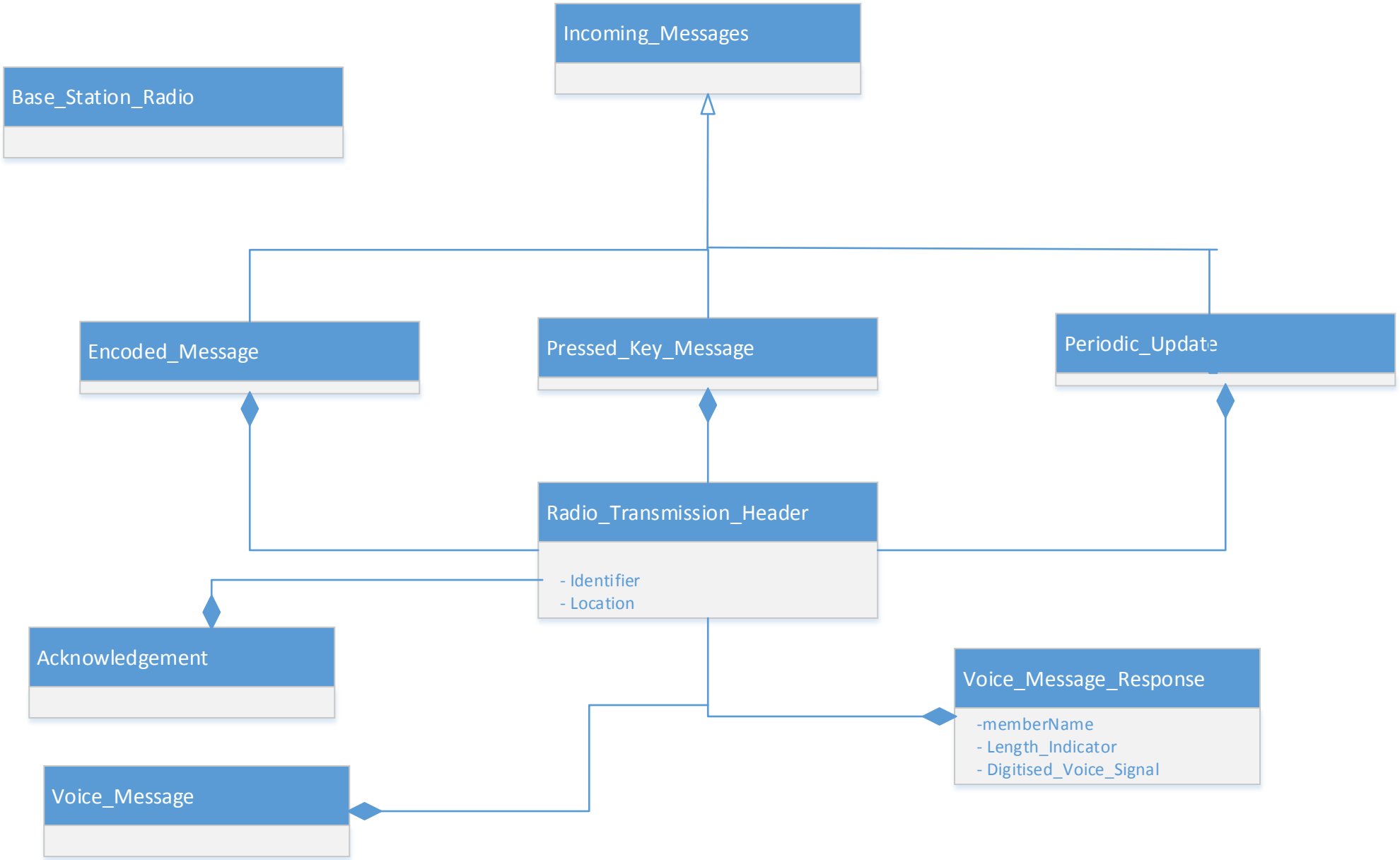

Dispatch_Log_Request
Generate Dispatch Log
6.2
Dispatch_Log_Report
Dispatch_Log_Error
Dispatch_Log

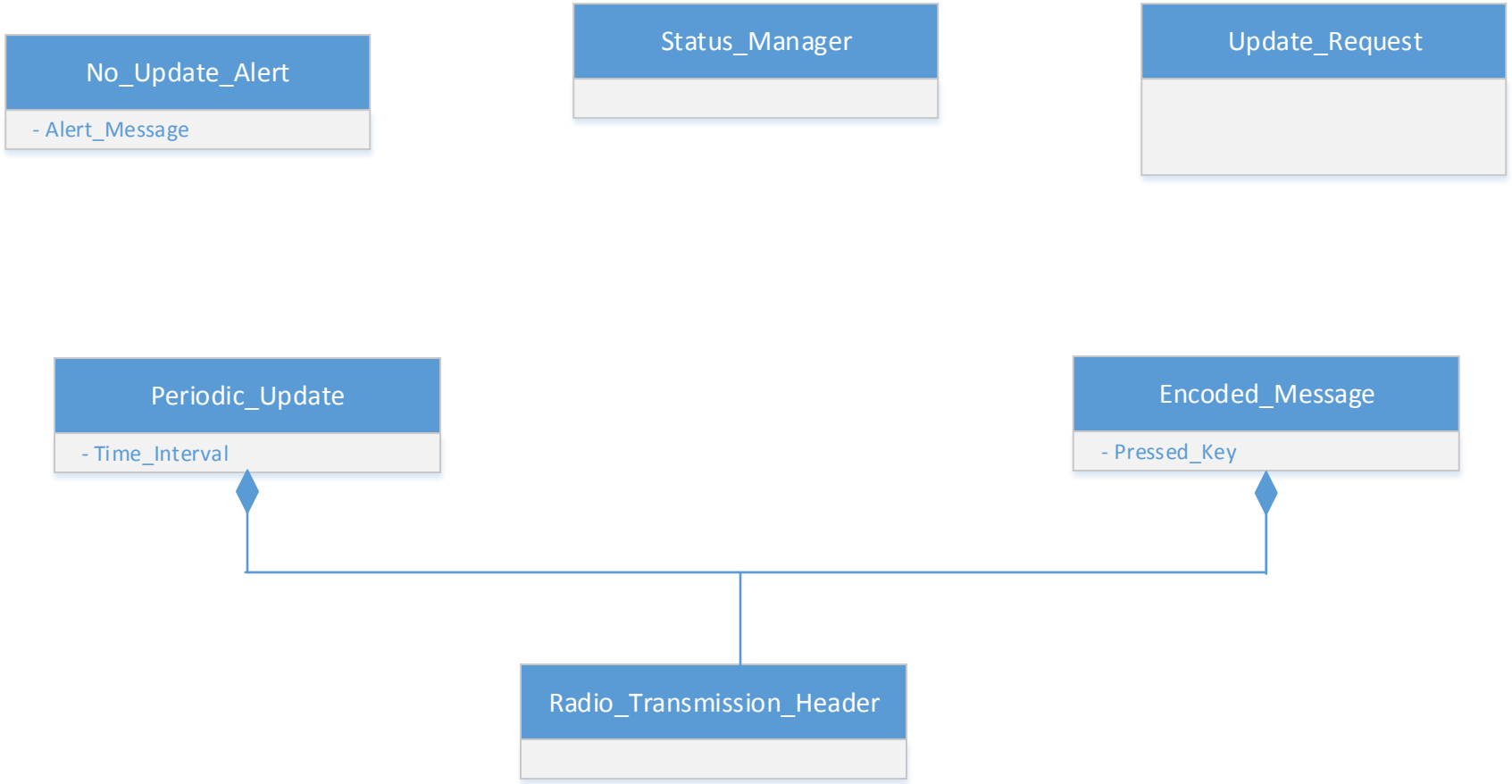

Audit_Trail_Request
Generate Audit Trail
6.3
Audit_Trail_Report
Audit_Trail_Error
Audit_Trail

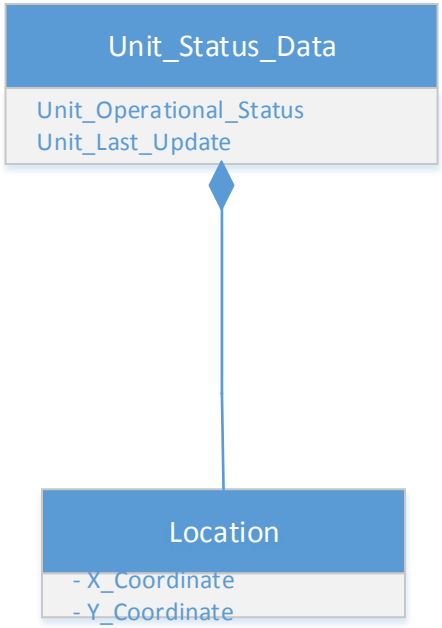

Incoming_Logs
Manage Online Logs
6.4
Online_Storage
Manage Offline Logs
6.5
Offline_Storage

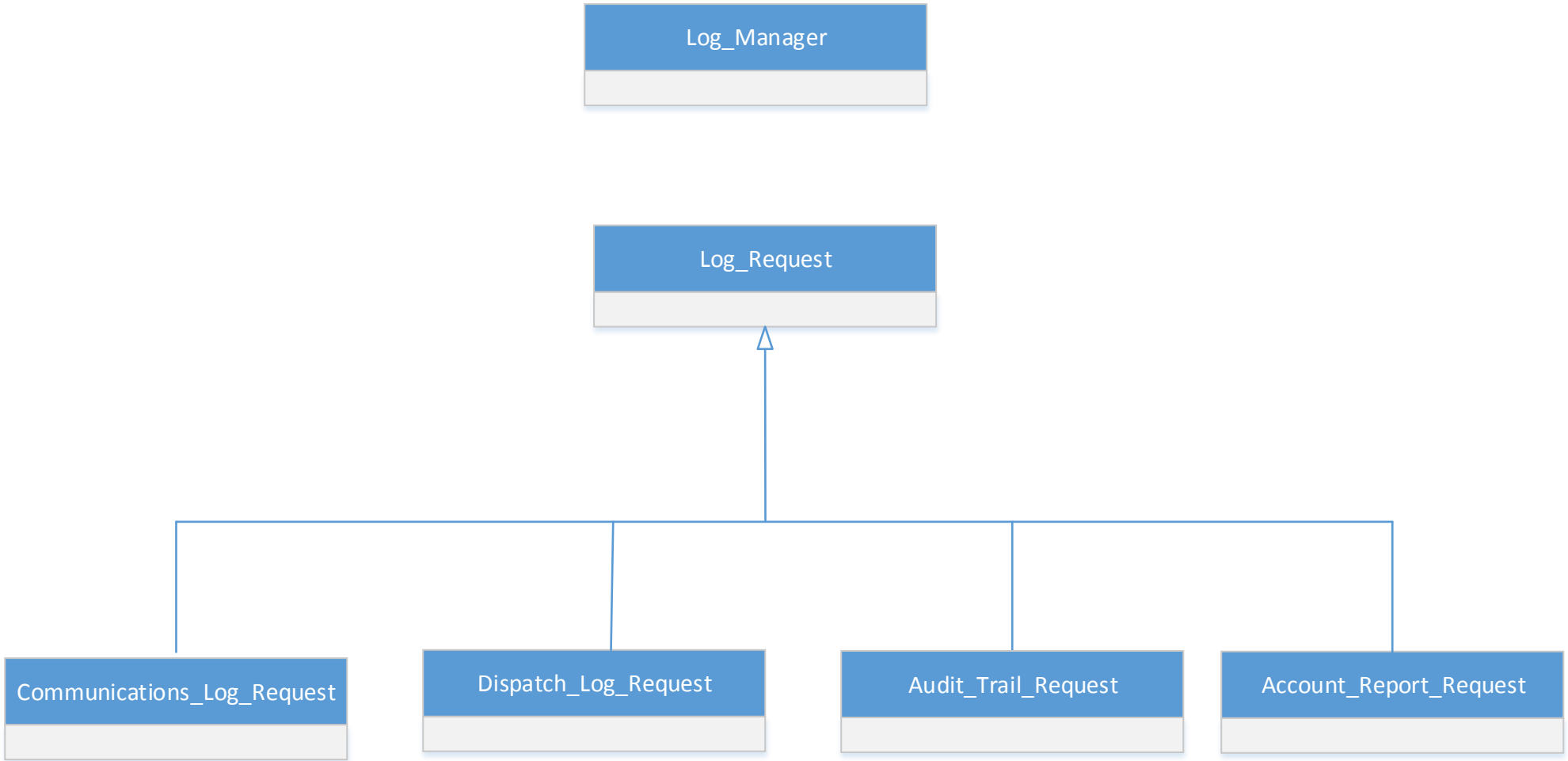

Error
-memberName
-memberName
Unit_Information_Error
Audit_Trail_Error
Dispatch_Log_Error
Communications_Log_Error

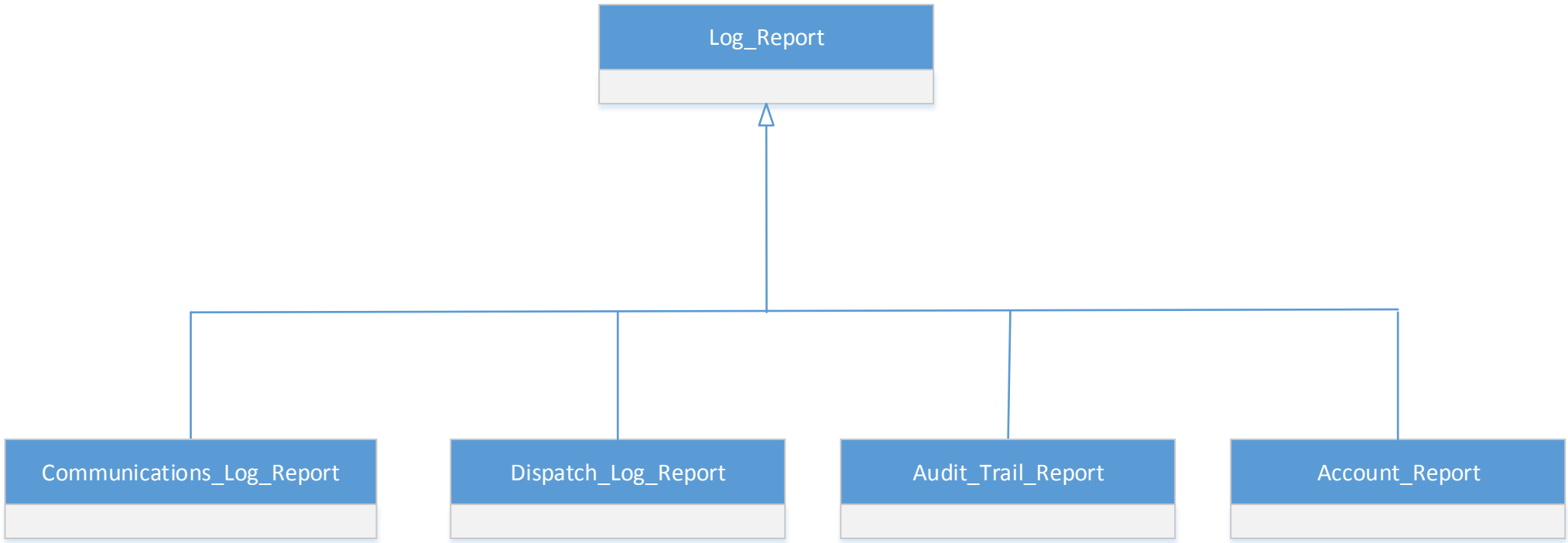

Unit_Information_Response
Generate Unit View 7.1
Unit_Color_View
Unit_Symbol_View
Unit_Flash_View
Unit_Location_View
Map_Display_View
Range_Center_Point_Display
Unit_Color_View
Unit_Symbol_View
Unit_Flash_View
Unit_Location_View
Display Screen 7.2
Display_All_View

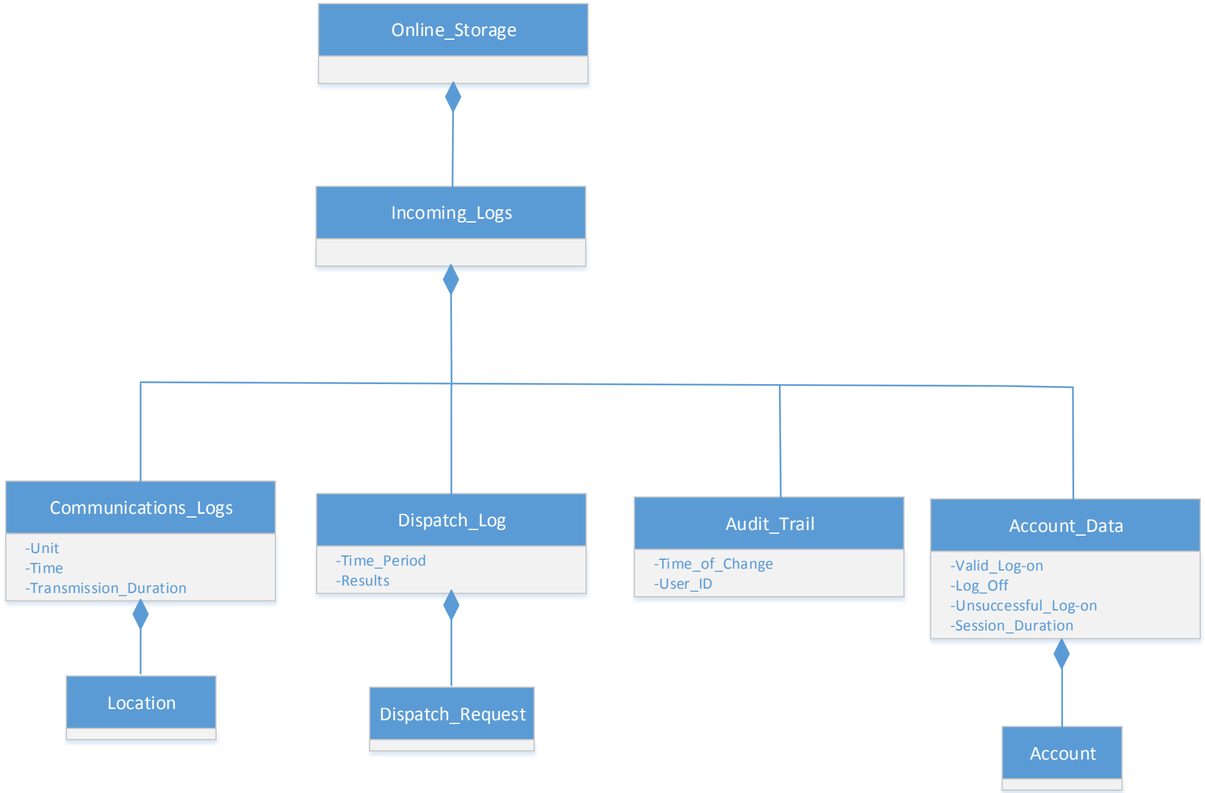

Incoming_Messages
Base_Station_Radio
Encoded_Message
Pressed_Key_Message
Periodic_Update
Radio_Transmission_Header
- Identifier
- Location
Acknowledgement
Voice_Message_Response
-memberName
- Length_Indicator
- Digitised_Voice_Signal
Voice_Message

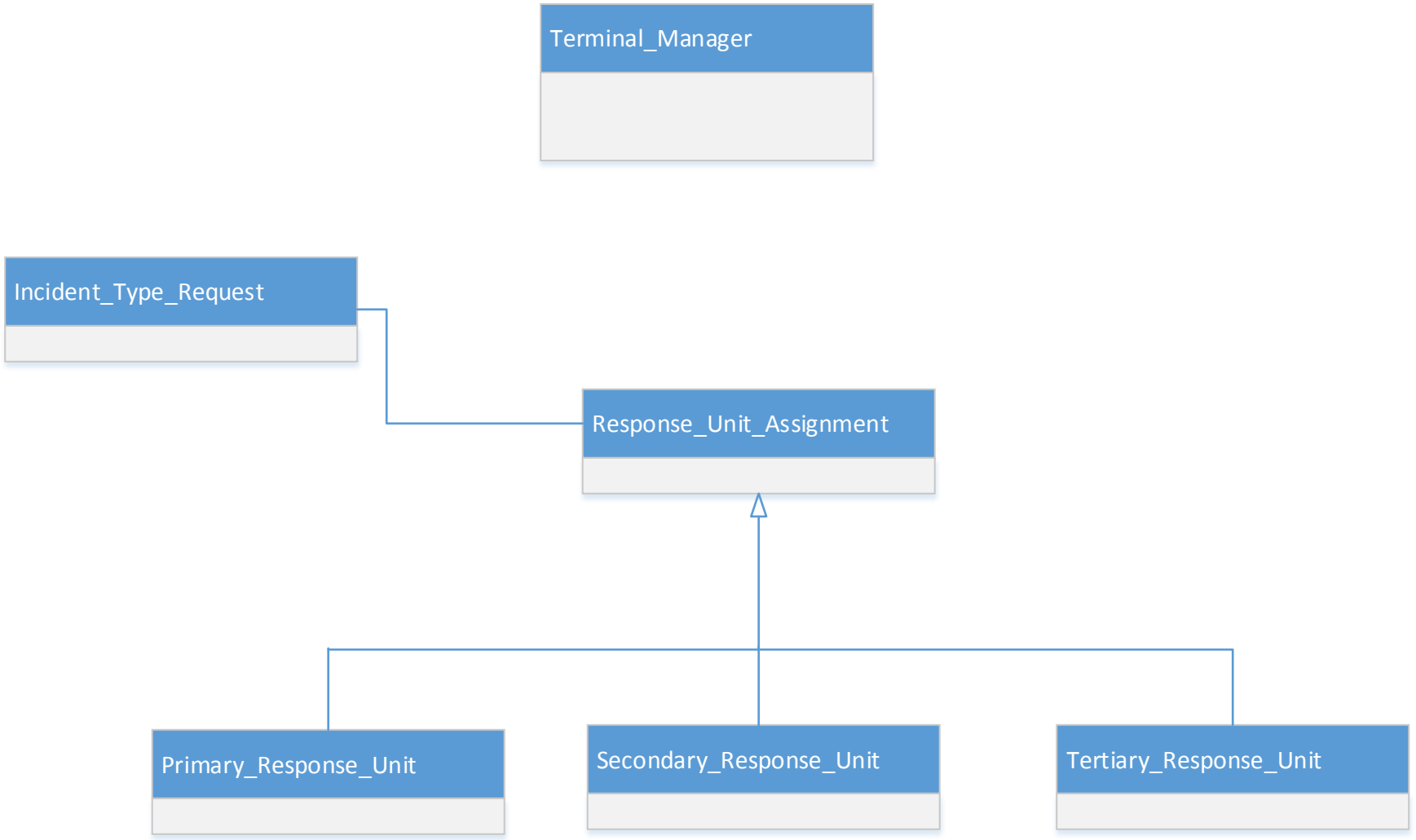

No_Update_Alert
- Alert_Message
Status_Manager
Update_Request
Periodic_Update
- Time_Interval
Encoded_Message
- Pressed_Key
Radio_Transmission_Header

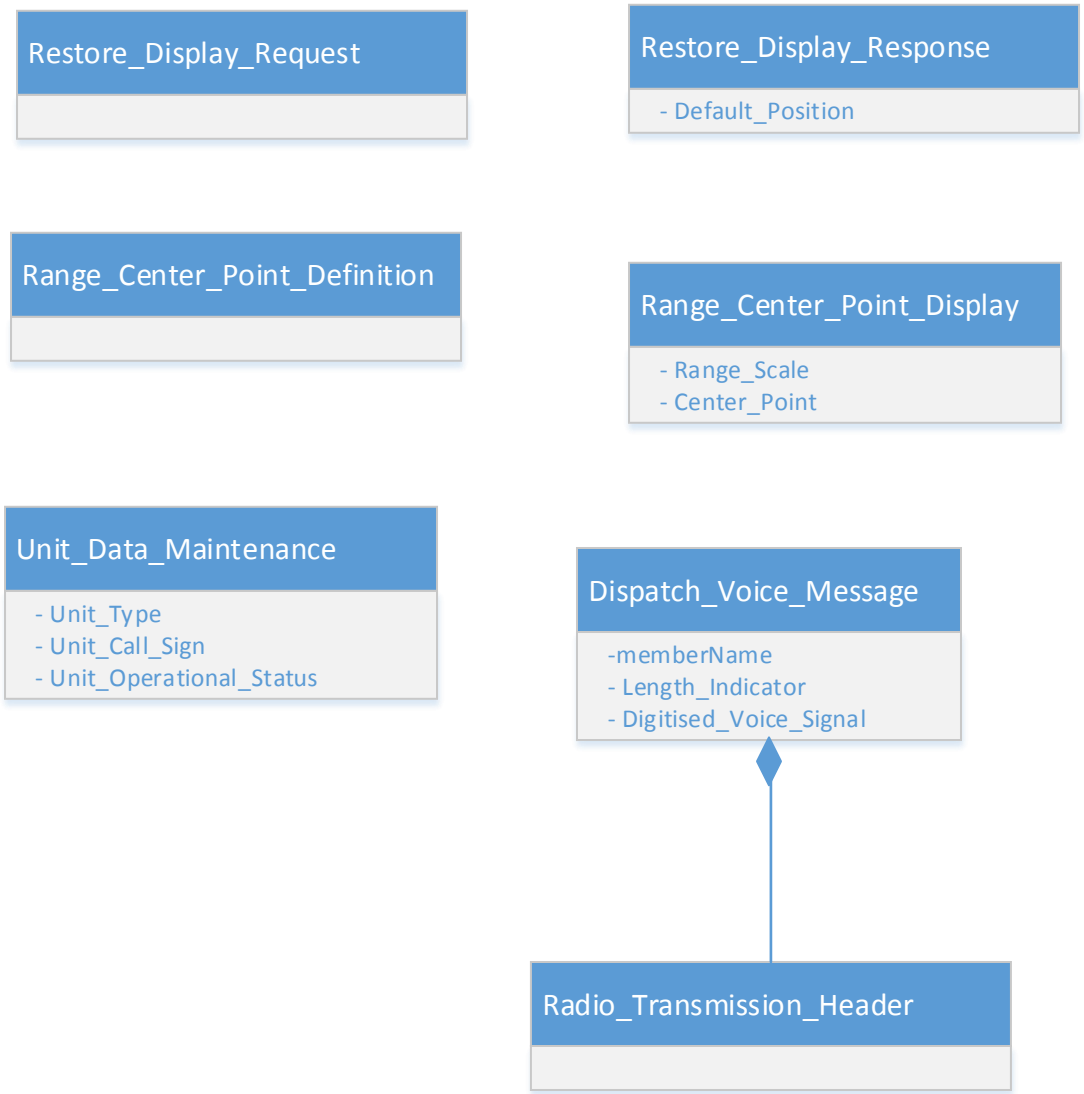

Unit_Status_Data
Unit_Operational_Status
Unit_Last_Update
Location
- X_Coordinate
- Y_Coordinate

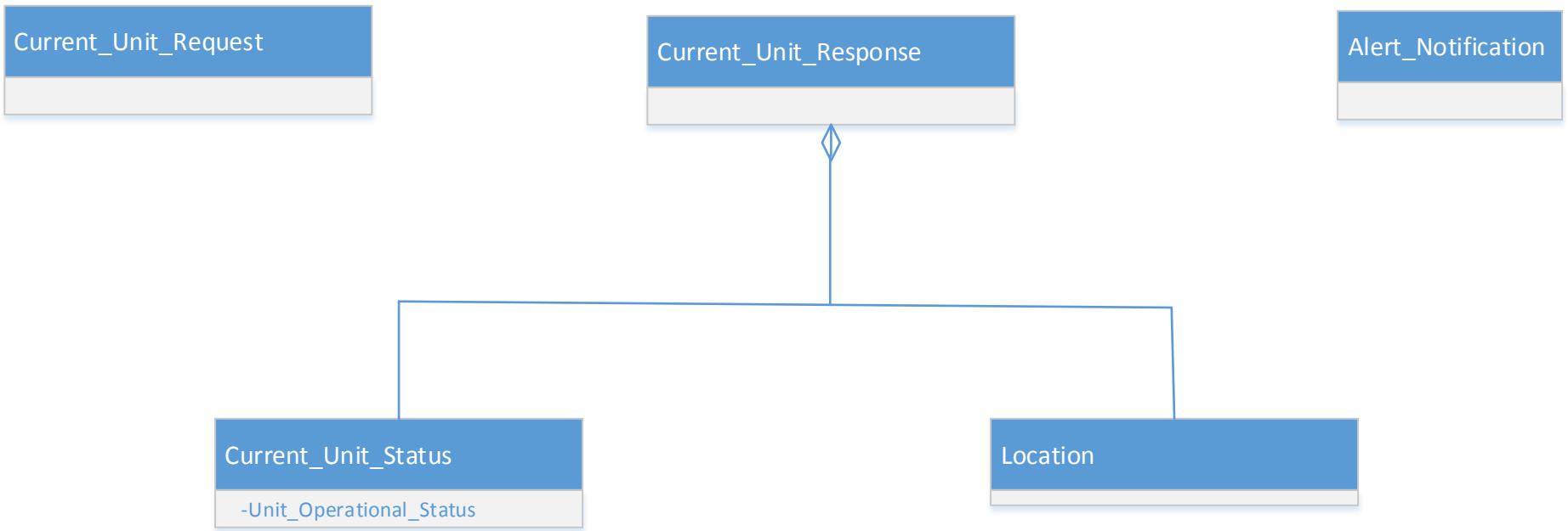

Log_Manager
Log_Request
Communications_Log_Request
Dispatch_Log_Request
Audit_Trail_Request
Account_Report_Request

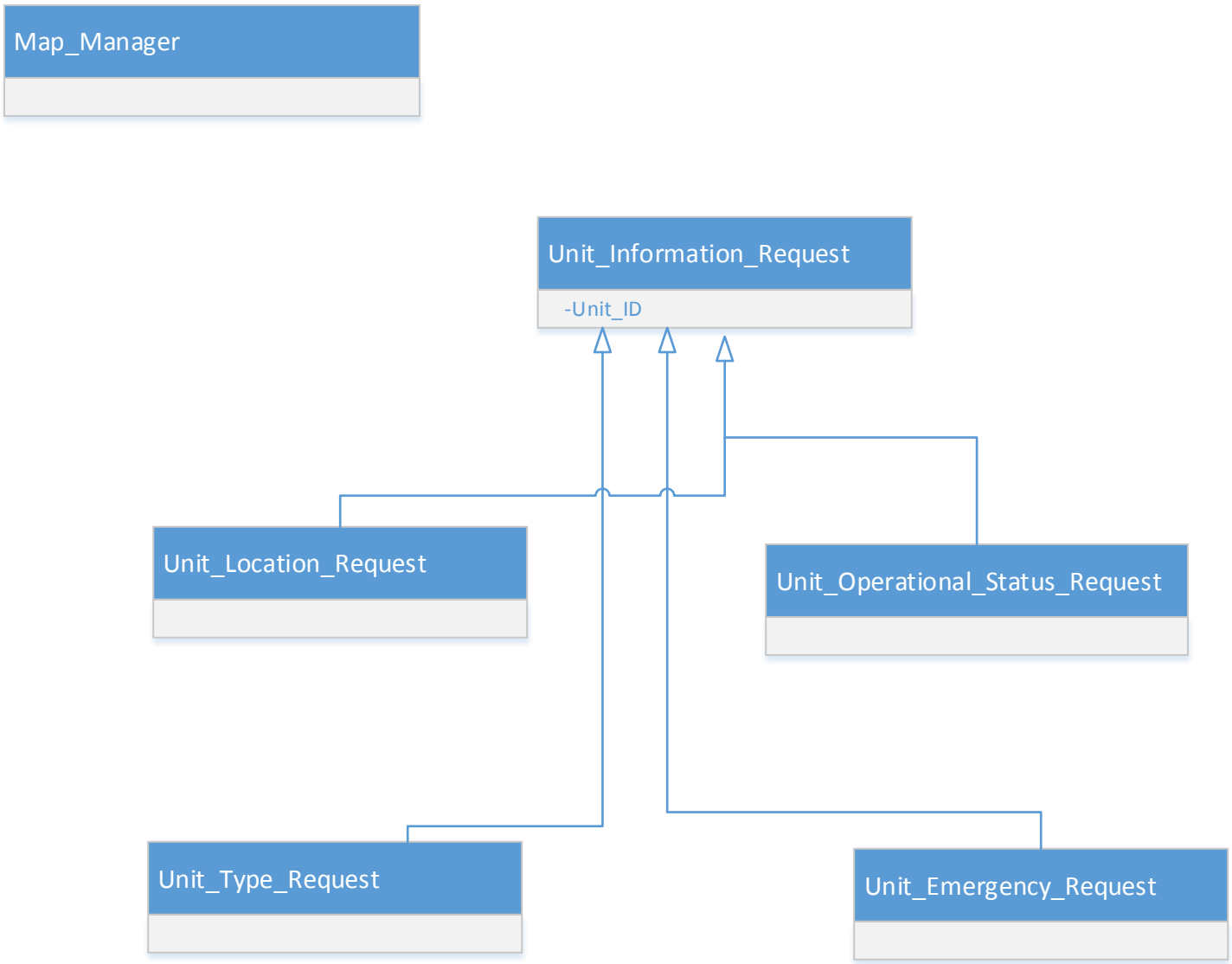

Log_Report
Communications_Log_Report
Dispatch_Log_Report
Audit_Trail_Report
Account_Report

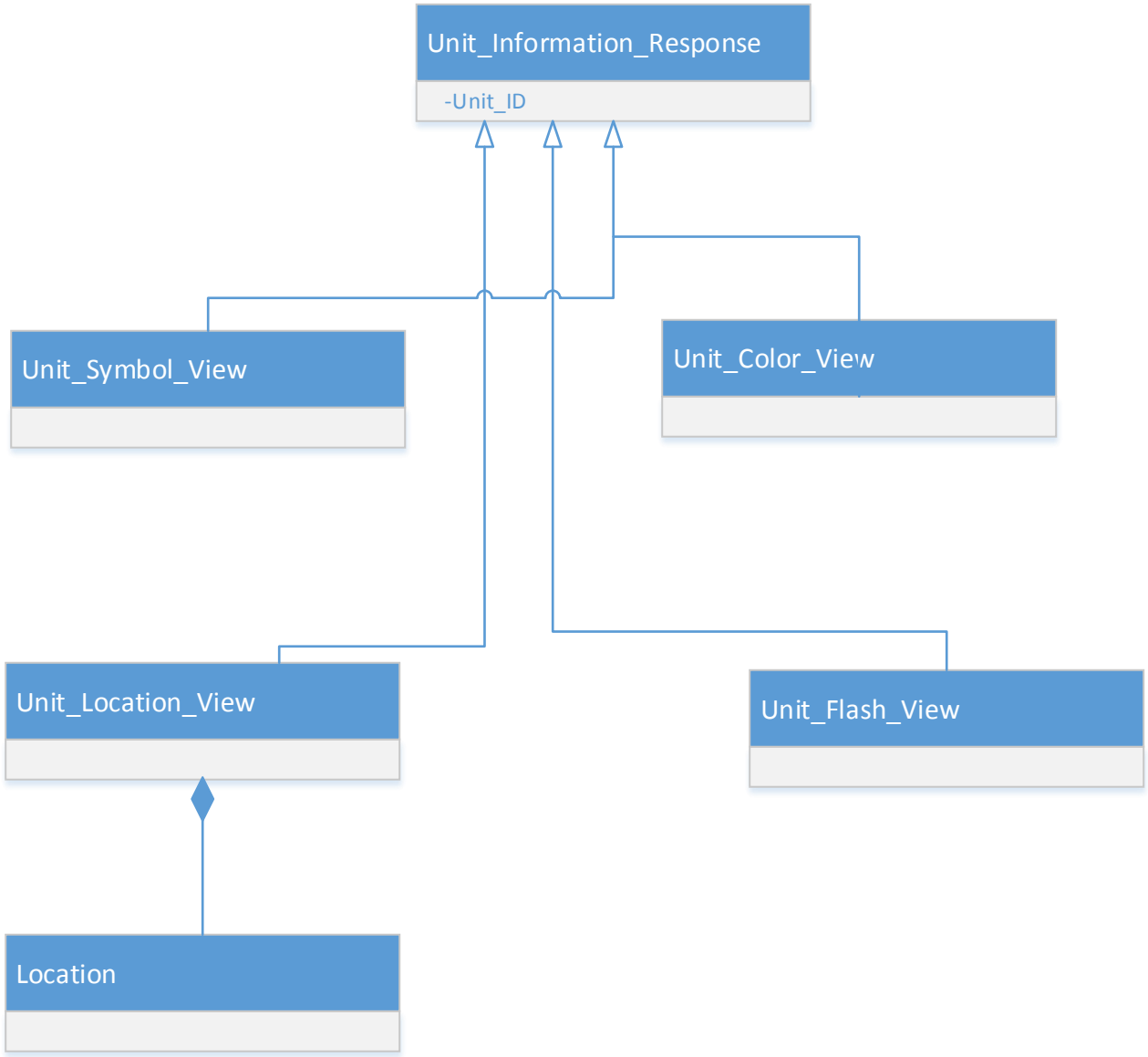

Online_Storage
Incoming_Logs
Communications_Logs
-Unit
-Time
-Transmission_Duration
Dispatch_Log
-Time_Period
-Results
Audit_Trail
-Time_of_Change
-User_ID
Account_Data
-Valid_Log-on
-Log_Off
-Unsuccessful_Log-on
-Session_Duration
Location
Dispatch_Request
Account

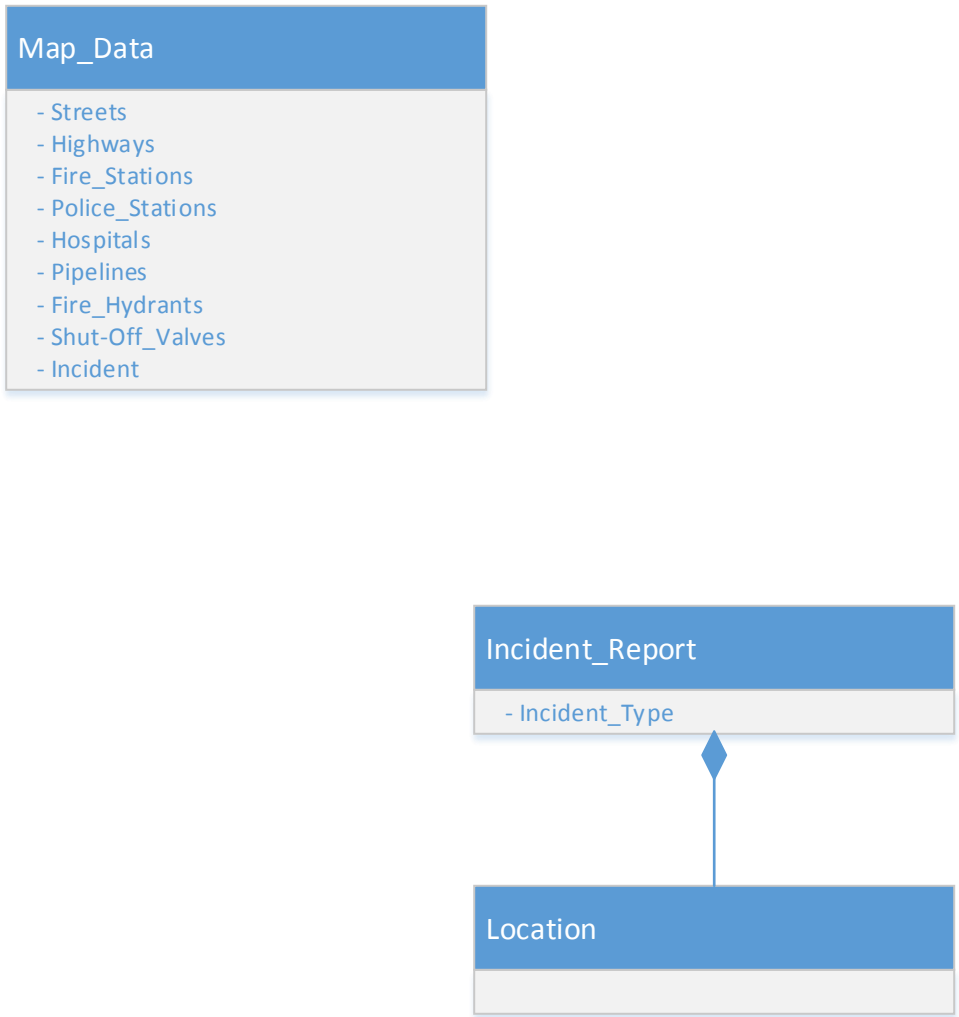

Terminal_Manager
Incident_Type_Request
Response_Unit_Assignment
Primary_Response_Unit
Secondary_Response_Unit
Tertiary_Response_Unit

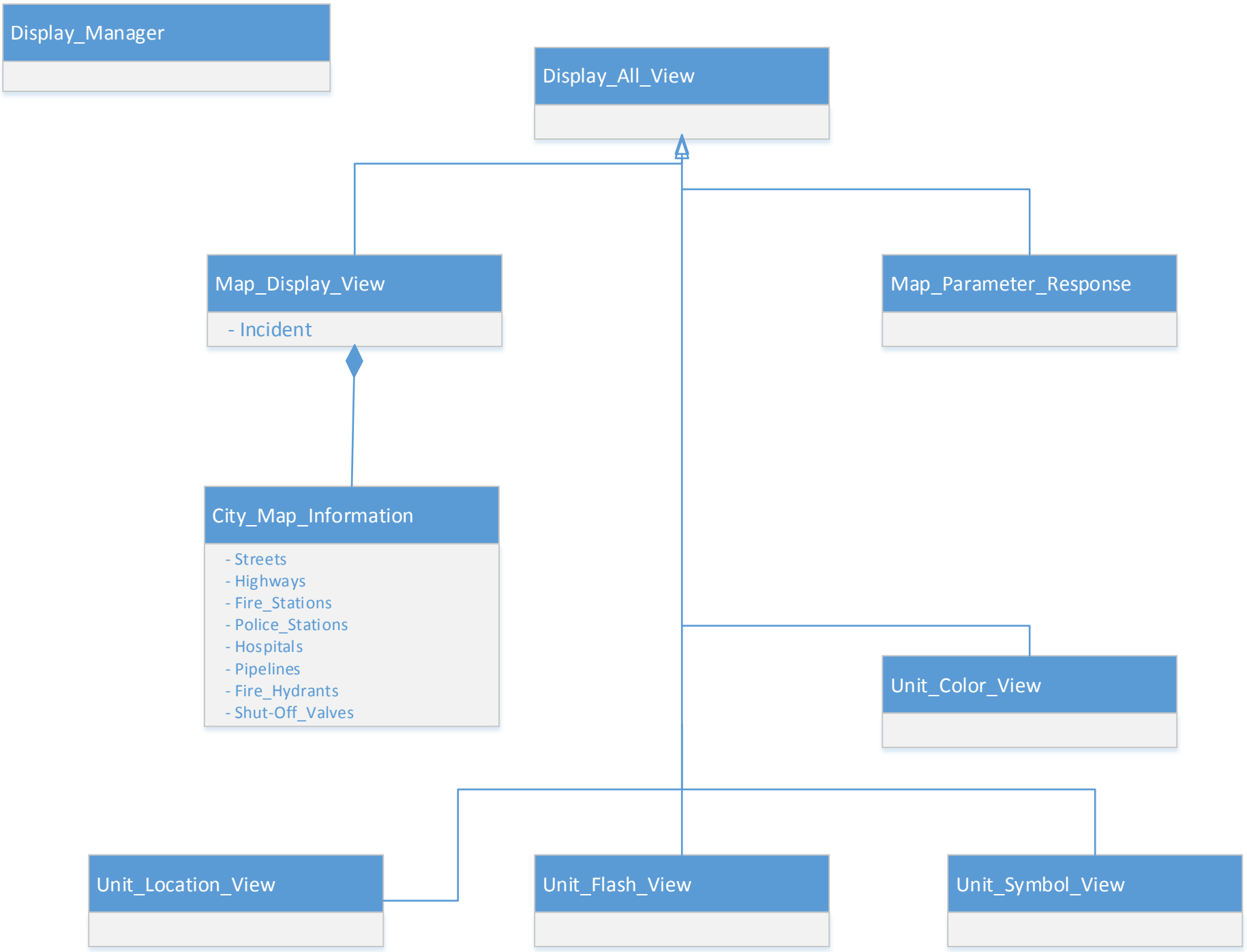

Restore_Display_Request
Restore_Display_Response
- Default_Position
Range_Center_Point_Definition
Range_Center_Point_Display
- Range_Scale
- Center_Point
Unit_Data_Maintenance
- Unit_Type
- Unit_Call_Sign
- Unit_Operational_Status
Dispatch_Voice_Message
-memberName
- Length_Indicator
- Digitised_Voice_Signal
Radio_Transmission_Header

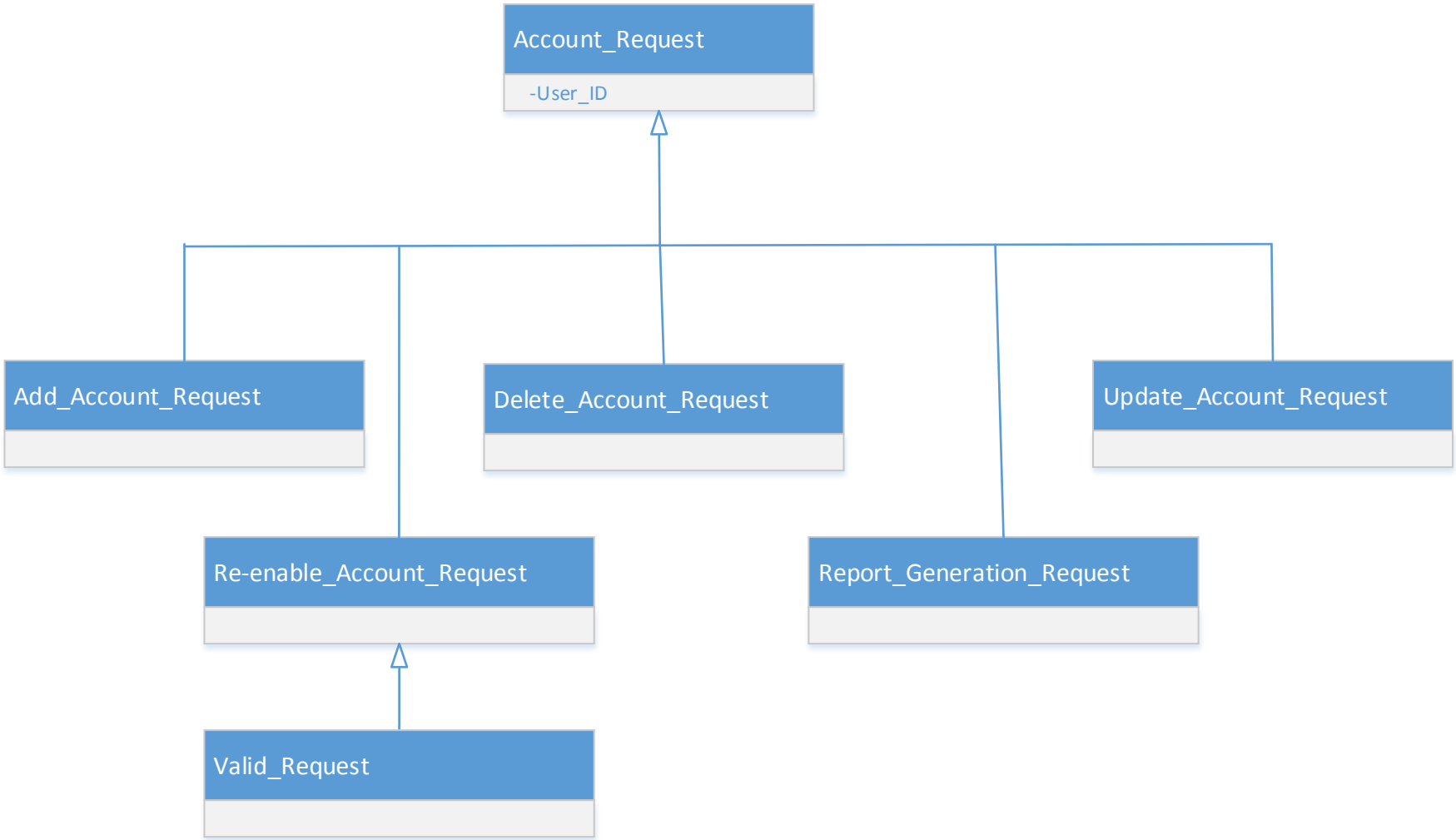

Current_Unit_Request
Current_Unit_Response
Alert_Notification
Current_Unit_Status
-Unit_Operational_Status
Location

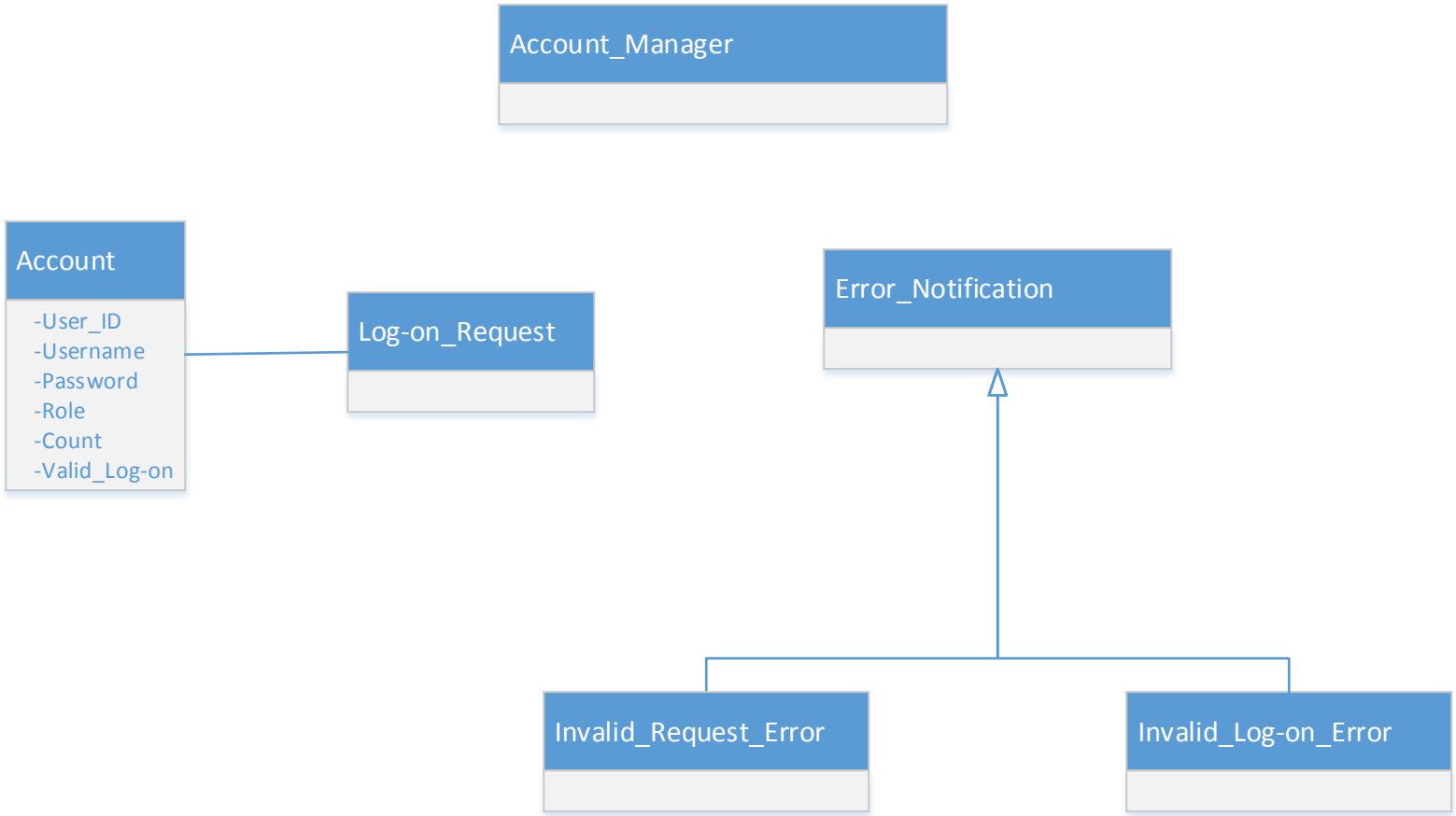

Map_Manager
Unit_Information_Request
-Unit_ID
Unit_Location_Request
Unit_Operational_Status_Request
Unit_Type_Request
Unit_Emergency_Request

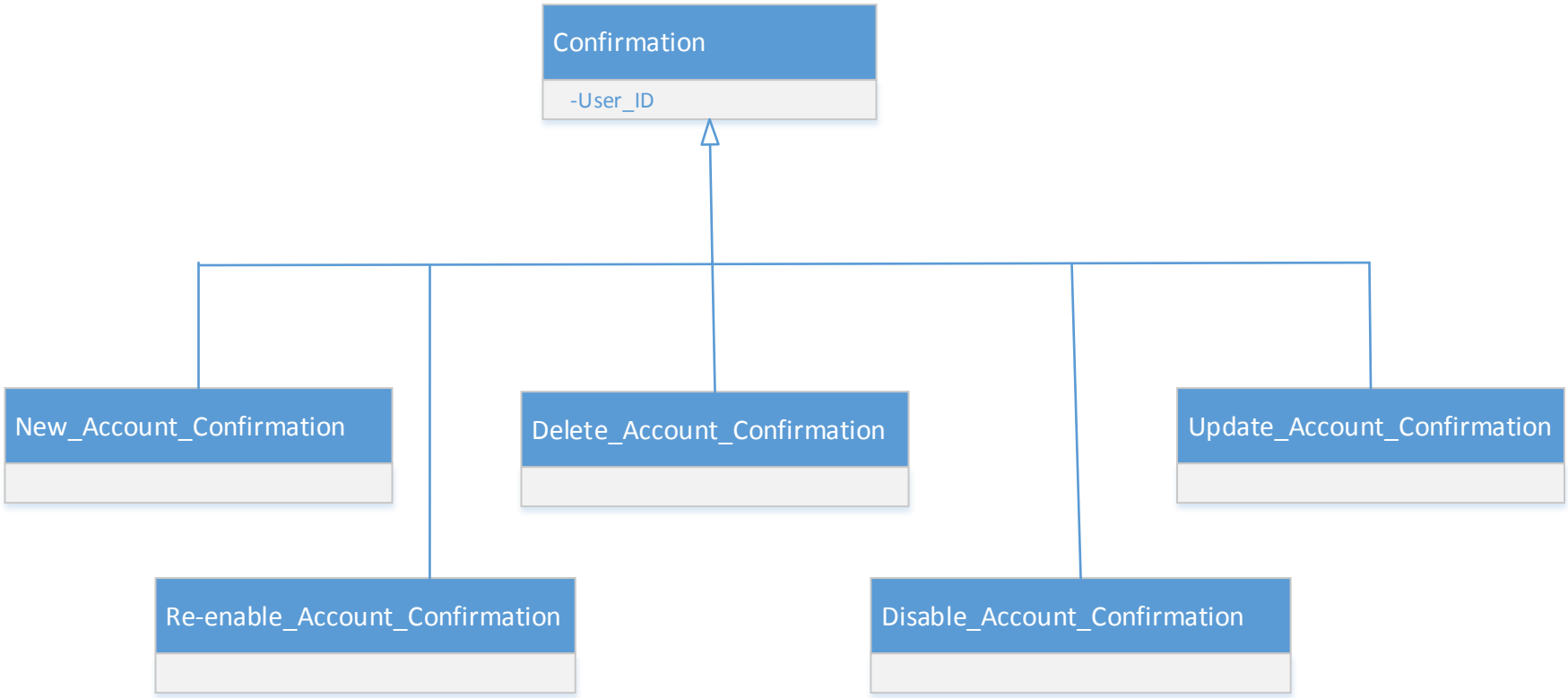

Unit_Information_Response
-Unit_ID
Unit_Symbol_View
Unit_Color_View
Unit_Location_View
Unit_Flash_View
Location

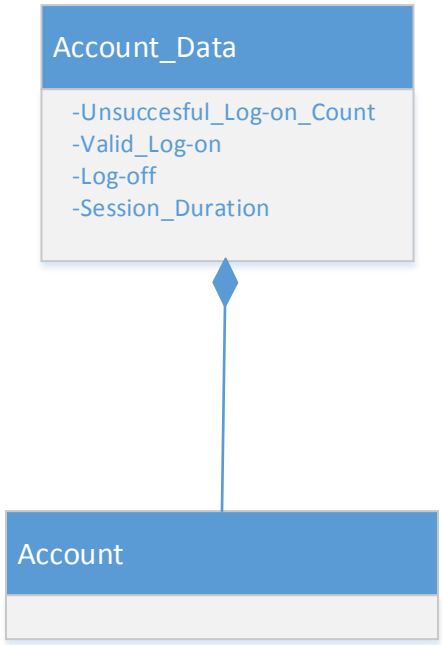

Map_Data
- Streets
- Highways
- Fire_Stations
- Police_Stations
- Hospitals
- Pipelines
- Fire_Hydrants
- Shut-Off_Valves
- Incident
Incident_Report
- Incident_Type
Location


Display_Manager
Display_All_View
Map_Display_View
- Incident
Map_Parameter_Response
City_Map_Information
- Streets
- Highways
- Fire_Stations
- Police_Stations
- Hospitals
- Pipelines
- Fire_Hydrants
- Shut-Off_Valves
Unit_Color_View
Unit_Location_View
Unit_Flash_View
Unit_Symbol_View


Account_Request
-User_ID
Add_Account_Request
Delete_Account_Request
Update_Account_Request
Re-enable_Account_Request
Report_Generation_Request
Valid_Request


Account_Manager
Account
-User_ID
-Username
-Password
-Role
-Count
-Valid_Log-on
Log-on_Request
Error_Notification
Invalid_Request_Error
Invalid_Log-on_Error


Confirmation
-User_ID
New_Account_Confirmation
Delete_Account_Confirmation
Update_Account_Confirmation
Re-enable_Account_Confirmation
Disable_Account_Confirmation


Account_Data
-Unsuccesful_Log-on_Count
-Valid_Log-on
-Log-off
-Session_Duration
Account