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<description>

2. Software Architecture

2.1. Project Architecture

This section displays the package hierarchy of projects.

Project SCADE_Procedure_OS_Systerel

Project Library lib_Types_And_Constants

2.2. Call Graph

This Call Graph displays the dependency tree of model operators.

1. EVC
    1.1. M01_A00_EXTRACT_DATAS_IN
    1.2. M02_A00_DATA_CONSISTENCY
    1.3. M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION
    1.4. M04_A00_DETERMINE_MODE_AND_LEVEL
        1.4.1. M04_A01_DETERMINE_TRANSITIONS_CONDITIONS
            1.4.1.1. M04_A03_MANAGEMENT_TEMPORISATION
        1.4.2. M04_A02_DETERMINE_MODE
    1.5. M05_A00_BUILD_DATAS_OUT

3. SCADE_Procedure_OS_Systerel Project

3.1. Root Elements

3.1.1. EVC Operator

Declared as **`public node`**

3.1.1.1. Interface

Table 1: Inputs of EVC

Name	Type	Comments and Information
M_DATAS_IN_ODO	s_datas_in_odo	
M_DATAS_IN_RADIO	s_datas_in_radio	
M_DATAS_IN_BTM	s_datas_in_btm	
M_DATAS_IN_DMI	s_datas_in_dmi	
M_PARAMETERS	s_parameters	

Table 2: Outputs of EVC

Name	Type	Comments and Information
M_DATAS_OUT_DMI	s_datas_out_dmi	
M_DATAS_OUT_BIU	s_datas_out_biu	

3.1.1.2. Locals

Table 3: Locals of EVC

Name	Type	Properties		Comments and Information
D_DISTANCE_ODO_LOC	int			
M_LEVEL_ETCS_LOC	enum_level_etcs	last	LEVEL_0	
M_OS_AREA_LOC	s_os_area			
Q_DRIVER_ACK_OS_MODE_LOC	bool			

3.1.1.3. Operator Hierarchy

diagram : diagram_EVC_1

3.1.1.4. Graphical and Textual Diagrams

3.1.1.4.1. View of diagram_EVC_1 (EVC)

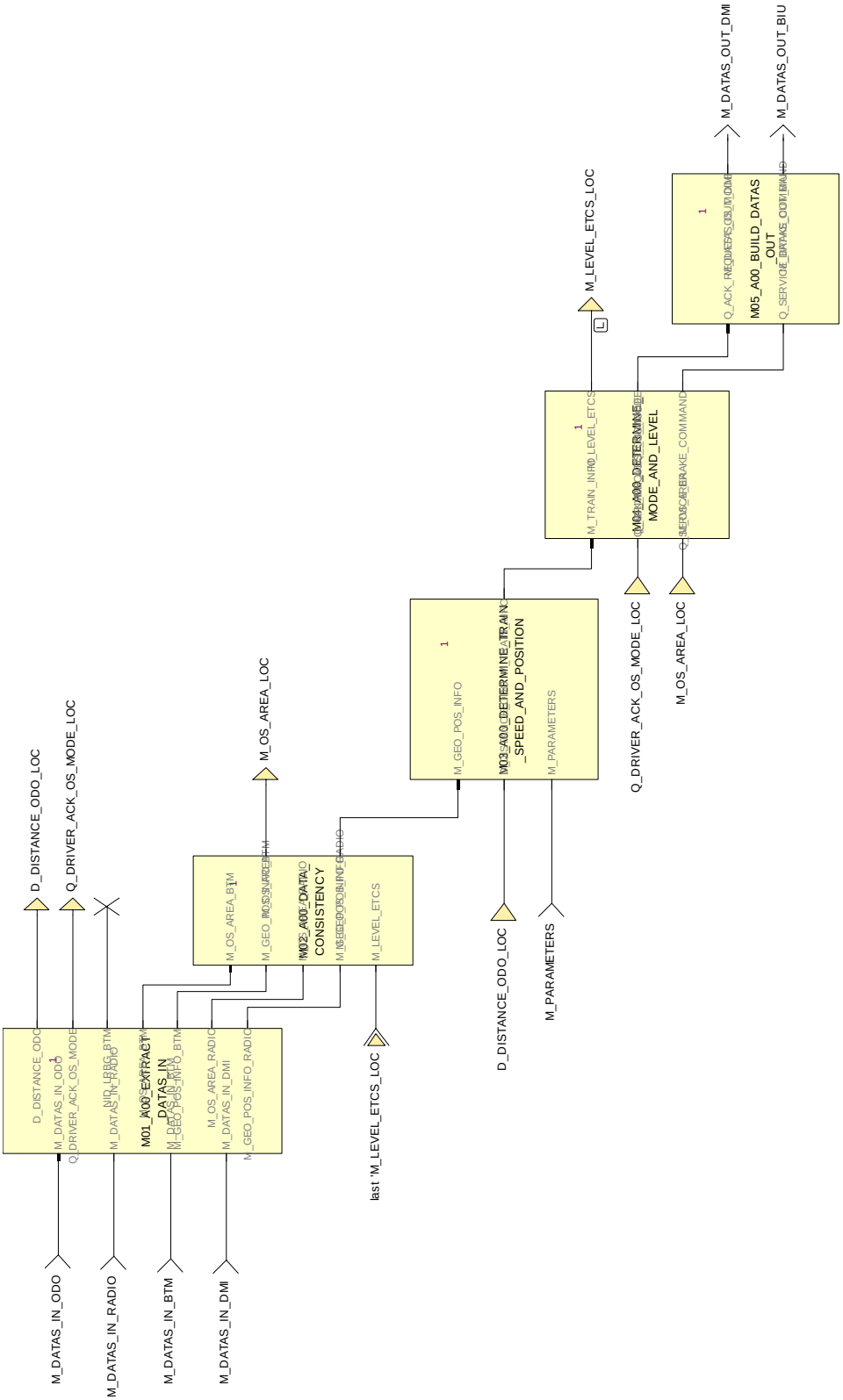

Figure 1: View of diagram_EVC_1 (EVC)

3.1.2. M01_A00_EXTRACT_DATAS_IN Operator

Declared as **`public function`**

3.1.2.1. Interface

Table 4: Inputs of M01_A00_EXTRACT_DATAS_IN

Name	Type	Comments and Information
M_DATAS_IN_ODO	s_datas_in_odo	
M_DATAS_IN_RADIO	s_datas_in_radio	
M_DATAS_IN_BTM	s_datas_in_btm	
M_DATAS_IN_DMI	s_datas_in_dmi	

Table 5: Outputs of M01_A00_EXTRACT_DATAS_IN

Name	Type	Comments and Information
D_DISTANCE_ODO	int	
Q_DRIVER_ACK_OS_MODE	bool	
NID_LRBG_BTM	int	
M_OS_AREA_BTM	s_os_area	
M_GEO_POS_INFO_BTM	s_geo_pos_info	
M_OS_AREA_RADIO	s_os_area	
M_GEO_POS_INFO_RADIO	s_geo_pos_info	

3.1.2.2. Operator Hierarchy

diagram : diagram_M01_A00_EXTRACT_DATAS_IN_1

3.1.2.3. Graphical and Textual Diagrams

3.1.2.3.1. View of diagram_M01_A00_EXTRACT_DATAS_IN_1 (M01_A00_EXTRACT_DATAS_IN)

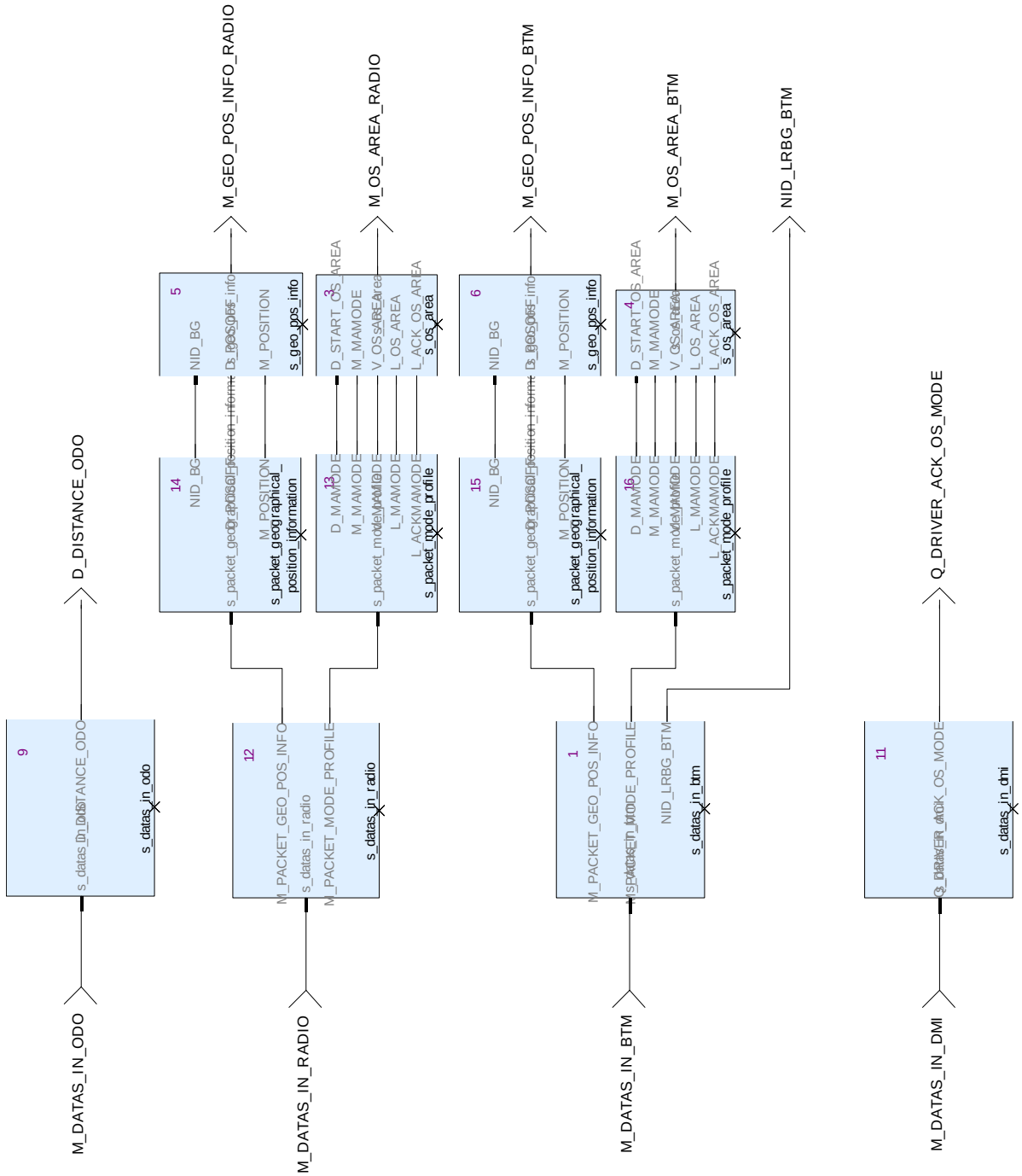

Figure 2: View of diagram_M01_A00_EXTRACT_DATAS_IN_1 (M01_A00_EXTRACT_DATAS_IN)

3.1.3. M02_A00_DATA_CONSISTENCY Operator

Declared as **`public function`**

3.1.3.1. Interface

Table 6: Inputs of M02_A00_DATA_CONSISTENCY

Name	Type	Comments and Information
M_OS_AREA_BTM	s_os_area	
M_GEO_POS_INFO_BTM	s_geo_pos_info	
M_OS_AREA_RADIO	s_os_area	
M_GEO_POS_INFO_RADIO	s_geo_pos_info	
M_LEVEL_ETCS	enum_level_etcs	

Table 7: Outputs of M02_A00_DATA_CONSISTENCY

Name	Type	Comments and Information
M_OS_AREA	s_os_area	
M_GEO_POS_INFO	s_geo_pos_info	

3.1.3.2. Operator Hierarchy

diagram : diagram_M02_A00_DATA_CONSISTENCY_1

3.1.3.3. Graphical and Textual Diagrams

3.1.3.3.1. View of diagram_M02_A00_DATA_CONSISTENCY_1 (M02_A00_DATA_CONSISTENCY)

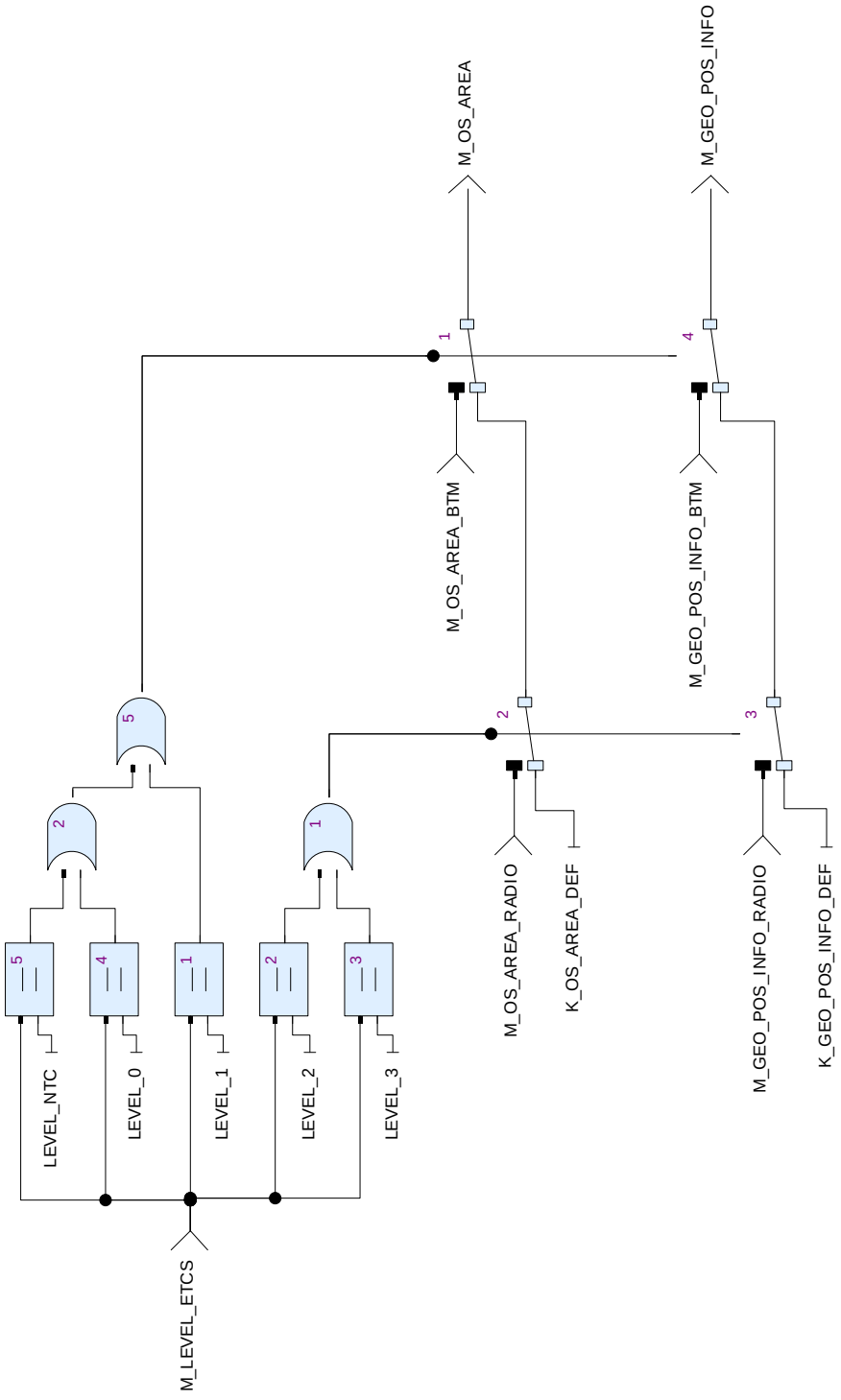

Figure 3: View of diagram_M02_A00_DATA_CONSISTENCY_1 (M02_A00_DATA_CONSISTENCY)

3.1.4. M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION Operator

Declared as **`public node`**

3.1.4.1. Interface

Table 8: Inputs of M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION

Name	Type	Comments and Information
M_GEO_POS_INFO	s_geo_pos_info	
D_DISTANCE_ODO	int	
M_PARAMETERS	s_parameters	

Table 9: Outputs of M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION

Name	Type	Comments and Information
M_TRAIN_INFO	s_train_information	

3.1.4.2. Locals

Table 10: Locals of M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION

Name	Type	Comments and Information
D_DIST_ANTENNA_MAX_SAFE_FRONT_LOC	int	
D_DIST_ANTENNA_MIN_SAFE_FRONT_LOC	int	
D_POSOFF_MAX_SAFE_FRONT_PREV_LOC	int	
D_POSOFF_MIN_SAFE_FR0NT_PREV_LOC	int	
M_POSITION_REF_LOC	int	
M_TRAIN_POSITION_REF_PREV_LOC	int	
M_TRAIN_POSITIONS_LOC	s_train_positions	
V_TRAIN_SPEED_LOC	int	

3.1.4.3. Operator Hierarchy

diagram : diagram_M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION_1

3.1.4.4. Graphical and Textual Diagrams

3.1.4.4.1. View of diagram_M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION_1 (M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION)

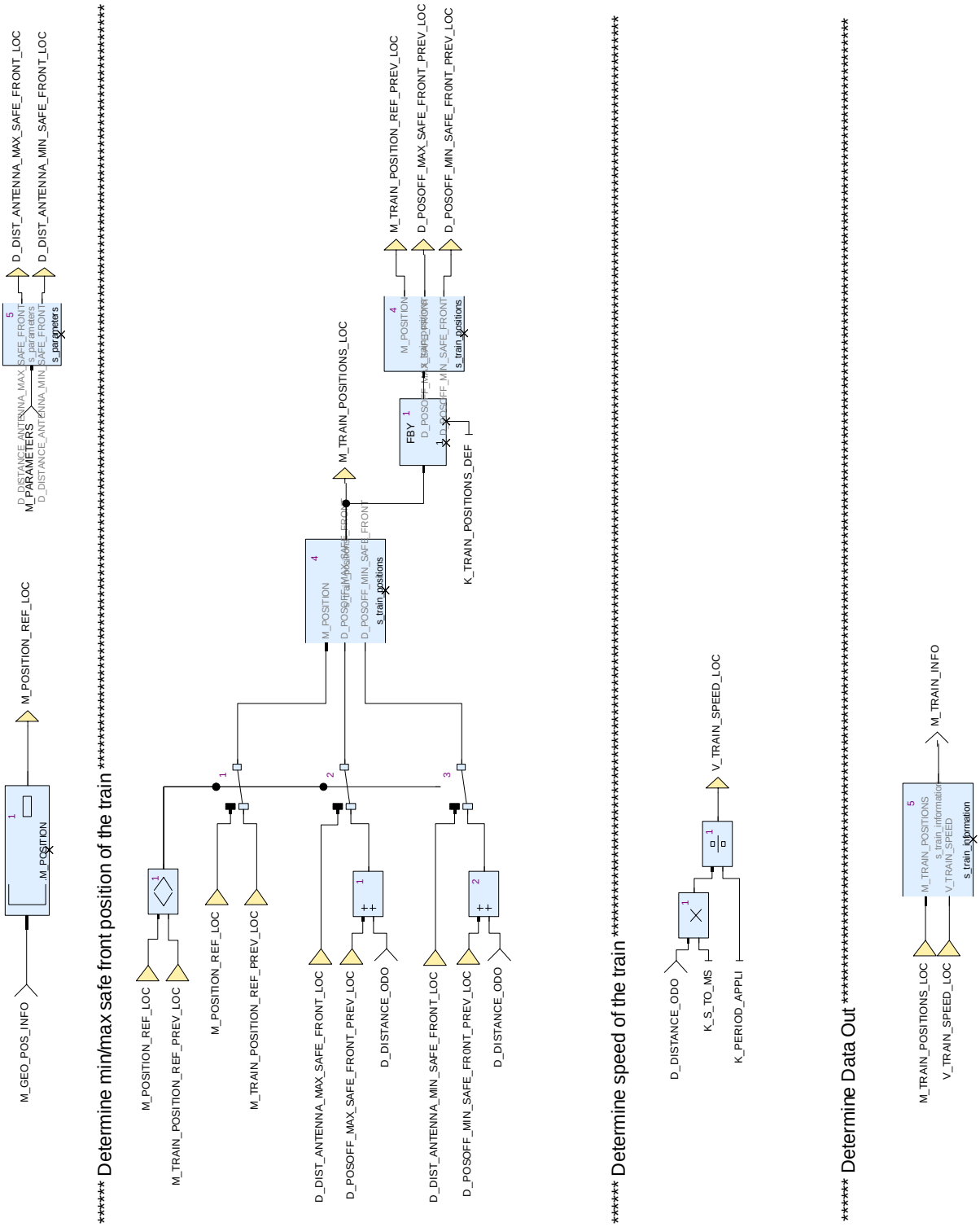

Figure 4: View of diagram_M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION_1 (M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION)

Table 11: diagram_M03_A00_DETERMINE_TRAIN_SPEED_AND_POSITION_1 Annotations

Note Name	Attribute	Value
Graphical_1	Text	****** Determine min/max safe front position of the train ********** ********** **********
	to_c	False
Graphical_21	Text	****** Determine speed of the train ********** ********** ********** **********
	to_c	False
Graphical_3	Text	****** Determine Data Out ********** ********** ********** **********
	to_c	True

3.1.5. M04_A00_DETERMINE_MODE_AND_LEVEL Operator

Declared as **public node**

3.1.5.1. Interface

Table 12: Inputs of M04_A00_DETERMINE_MODE_AND_LEVEL

Name	Type	Comments and Information
M_TRAIN_INFO	s_train_information	
Q_DRIVER_ACQ_OS_MODE	bool	
M_OS_AREA	s_os_area	

Table 13: Outputs of M04_A00_DETERMINE_MODE_AND_LEVEL

Name	Type	Comments and Information
M_LEVEL_ETCS	enum_level_etcs	
Q_ACK_REQUEST_OS_MODE	bool	
Q_SERVICE_BRAKE_COMMAND	bool	

3.1.5.2. Locals

Table 14: Locals of M04_A00_DETERMINE_MODE_AND_LEVEL

Name	Type	Properties		Comments and Information
M_EVC_MODE_LOC	enum_evc_mode	last	SR	

3.1.5.3. Operator Hierarchy

diagram : diagram_M04_A00_DETERMINE_MODE_AND_LEVEL_1

3.1.5.4. Graphical and Textual Diagrams

3.1.5.4.1. View of diagram_M04_A00_DETERMINE_MODE_AND_LEVEL_1 (M04_A00_DETERMINE_MODE_AND_LEVEL)

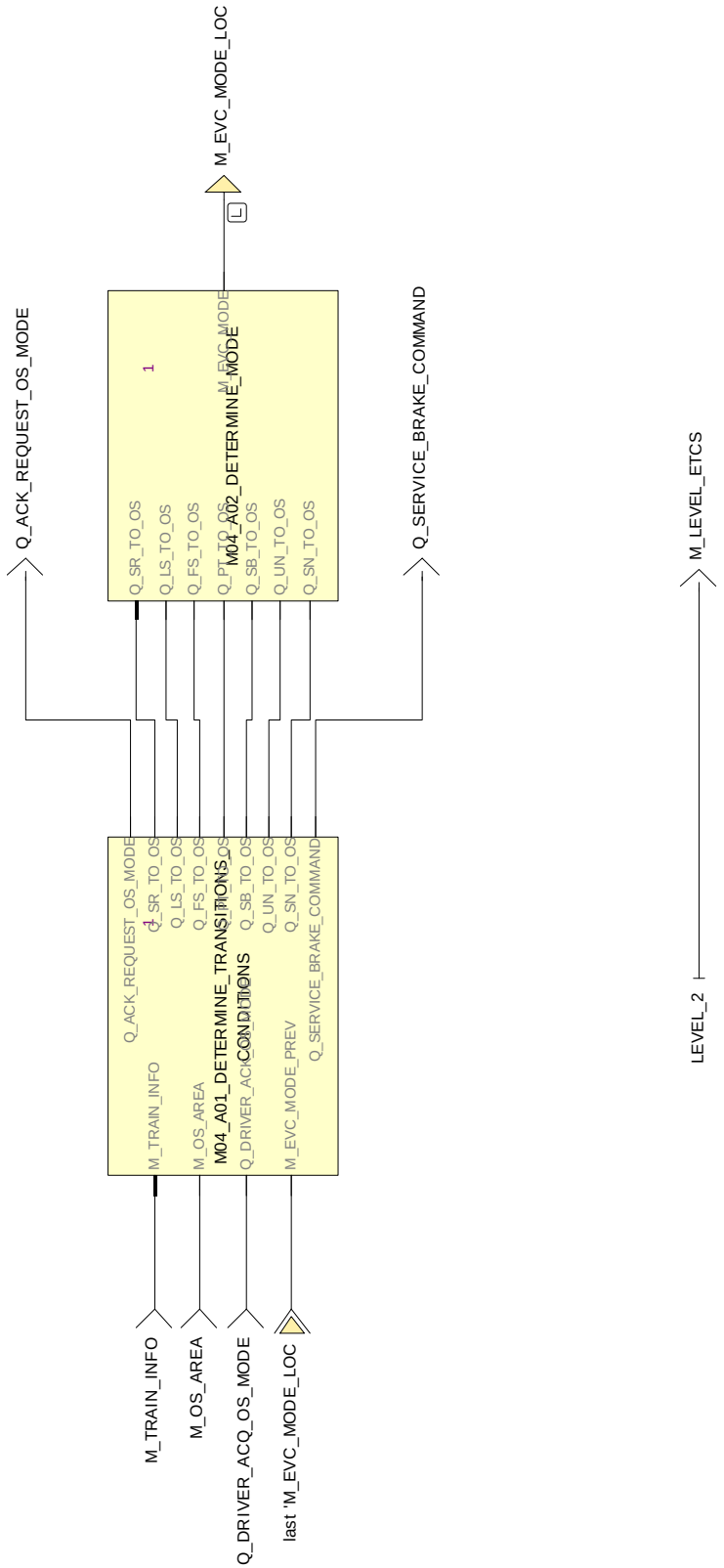

Figure 5: View of diagram_M04_A00_DETERMINE_MODE_AND_LEVEL_1 (M04_A00_DETERMINE_MODE_AND_LEVEL)

3.1.6. M04_A01_DETERMINE_TRANSITIONS_CONDITIONS Operator

Declared as **public node**

3.1.6.1. Interface

Table 15: Inputs of M04_A01_DETERMINE_TRANSITIONS_CONDITIONS

Name	Type	Comments and Information
M_TRAIN_INFO	s_train_information	
M_OS_AREA	s_os_area	
Q_DRIVER_ACK_OS_MODE	bool	
M_EVC_MODE_PREV	enum_evc_mode	

Table 16: Outputs of M04_A01_DETERMINE_TRANSITIONS_CONDITIONS

Name	Type	Comments and Information
Q_ACK_REQUEST_OS_MODE	bool	
Q_SR_TO_OS	bool	
Q_LS_TO_OS	bool	
Q_FS_TO_OS	bool	
Q_PT_TO_OS	bool	
Q_SB_TO_OS	bool	
Q_UN_TO_OS	bool	
Q_SN_TO_OS	bool	
Q_SERVICE_BRAKE_COMMAND	bool	

3.1.6.2. Locals

Table 17: Locals of M04_A01_DETERMINE_TRANSITIONS_CONDITIONS

Name	Type	Properties		Comments and Information
D_START_OS_AREA_LOC	int			
D_TRAIN_POSOFF_MAX_SAFE_FRONT_LOC	int			
L_ACK_OS_AREA_LOC	int			
M_MAMODE_LOC	enum_mamode	last	NO_PROFILE	
M_TRAIN_POSITIONS_LOC	s_train_positions			
Q_ACK_REQUEST_OD_MODE_LOC	bool			
Q_MODE_PROFILE_OS_IN_PROGRESS_LOC	bool	last	false	
Q_SEND_ACK_REQUEST_FOR_CURRENT_LOCATION_LOC	bool			
Q_SEND_ACK_REQUEST_FOR_FUTHER_LOCATION_LOC	bool			

Name	Type	Properties		Comments and Information
Q_TEMPO_DELAY_DRIVER_ACK_IN_PROGRESS_LOC	bool	last	false	
Q_TRAIN_INSIDE_ACK_OS_AREA_LOC	bool			
Q_TRAIN_INSIDE_OS_AREA_LOC	bool			
Q_TRAIN_SPEED_LOWER_OS_SPEED_LOC	bool			
Q_TRANSITON_OS_FOR_CURRENT_LOCATION_LOC	bool			
Q_TRANSITON_OS_FOR_FURTHER_LOCATION_LOC	bool			
T_TEMPO_DELAY_DRIVER_ACK_LOC	int			
V_OS_AREA_LOC	int			
V_TRAIN_SPEED_LOC	int			

3.1.6.3. Operator Hierarchy

diagram : diagram_M04_A01_DETERMINE_TRANSITIONS_CONDITIONS_1

3.1.6.4. Graphical and Textual Diagrams

3.1.6.4.1. View of diagram_M04_A01_DETERMINE_TRANSITIONS_CONDITIONS_1 (M04_A01_DETERMINE_TRANSITIONS_CONDITIONS)

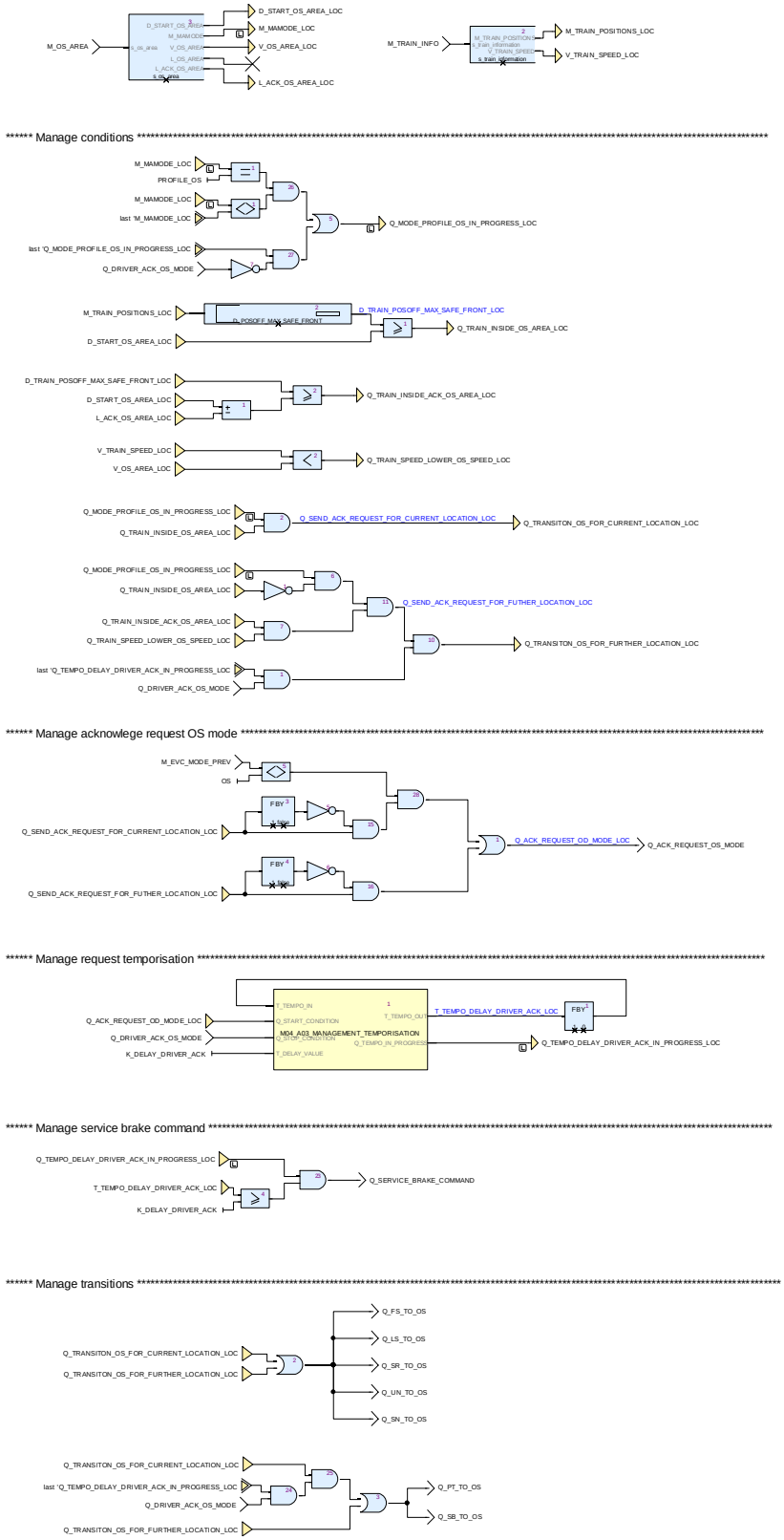

Figure 6: View of diagram_M04_A01_DETERMINE_TRANSITIONS_CONDITIONS_1 (M04_A01_DETERMINE_TRANSITIONS_CONDITIONS)

Table 18: diagram_M04_A01_DETERMINE_TRANSITIONS_CONDITIONS_1 Annotations

Note Name	Attribute	Value
Graphical_1	Text	****** Manage transitions ********** ********** ********** **********
	to_c	False
Graphical_11	Text	****** Manage service brake command ********** ********** ********** **********
	to_c	False
Graphical_111	Text	****** Manage request temporisation ********** ********** ********** **********
	to_c	False
Graphical_1111	Text	****** Manage acknowlege request OS mode ********** ********** ********** ***
	to_c	False
Graphical_2	Text	****** Manage conditions ********** ********** ********** **********
	to_c	True

3.1.7. M04_A02_DETERMINE_MODE Operator

Declared as **`public node`**

3.1.7.1. Interface

Table 19: Inputs of M04_A02_DETERMINE_MODE

Name	Type	Comments and Information
Q_SR_TO_OS	bool	
Q_LS_TO_OS	bool	
Q_FS_TO_OS	bool	
Q_PT_TO_OS	bool	
Q_SB_TO_OS	bool	
Q_UN_TO_OS	bool	
Q_SN_TO_OS	bool	

Table 20: Outputs of M04_A02_DETERMINE_MODE

Name	Type	Comments and Information
M_EVC_MODE	enum_evc_mode	

3.1.7.2. Locals

Table 21: Locals of M04_A02_DETERMINE_MODE

Name	Type	Properties		Comments and Information
M_EVC_MODE_LOC	enum_evc_mode	last	SR	
M_FS_TO_NEWMODE	enum_evc_mode			
M_LS_TO_NEWMODE	enum_evc_mode			
M_PT_TO_NEWMODE	enum_evc_mode			
M_SB_TO_NEWMODE	enum_evc_mode			
M_SN_TO_NEWMODE	enum_evc_mode			
M_SR_TO_NEWMODE	enum_evc_mode			
M_UN_TO_NEWMODE	enum_evc_mode			

3.1.7.3. Operator Hierarchy

diagram : diagram_M04_A02_DETERMINE_MODE_1
- *activate if* : IfBlock1
  - branch : then
  - branch : else
- *activate if* : IfBlock2
  - branch : then
  - branch : else
- *activate if* : IfBlock3
  - branch : then
  - branch : else
- *activate if* : IfBlock4
  - branch : then
  - branch : else
- *activate if* : IfBlock5
  - branch : then
  - branch : else
- *activate if* : IfBlock6
  - branch : then
  - branch : else
- *activate if* : IfBlock7
  - branch : then
  - branch : else

3.1.7.4. Graphical and Textual Diagrams

3.1.7.4.1. View of diagram_M04_A02_DETERMINE_MODE_1 (M04_A02_DETERMINE_MODE)

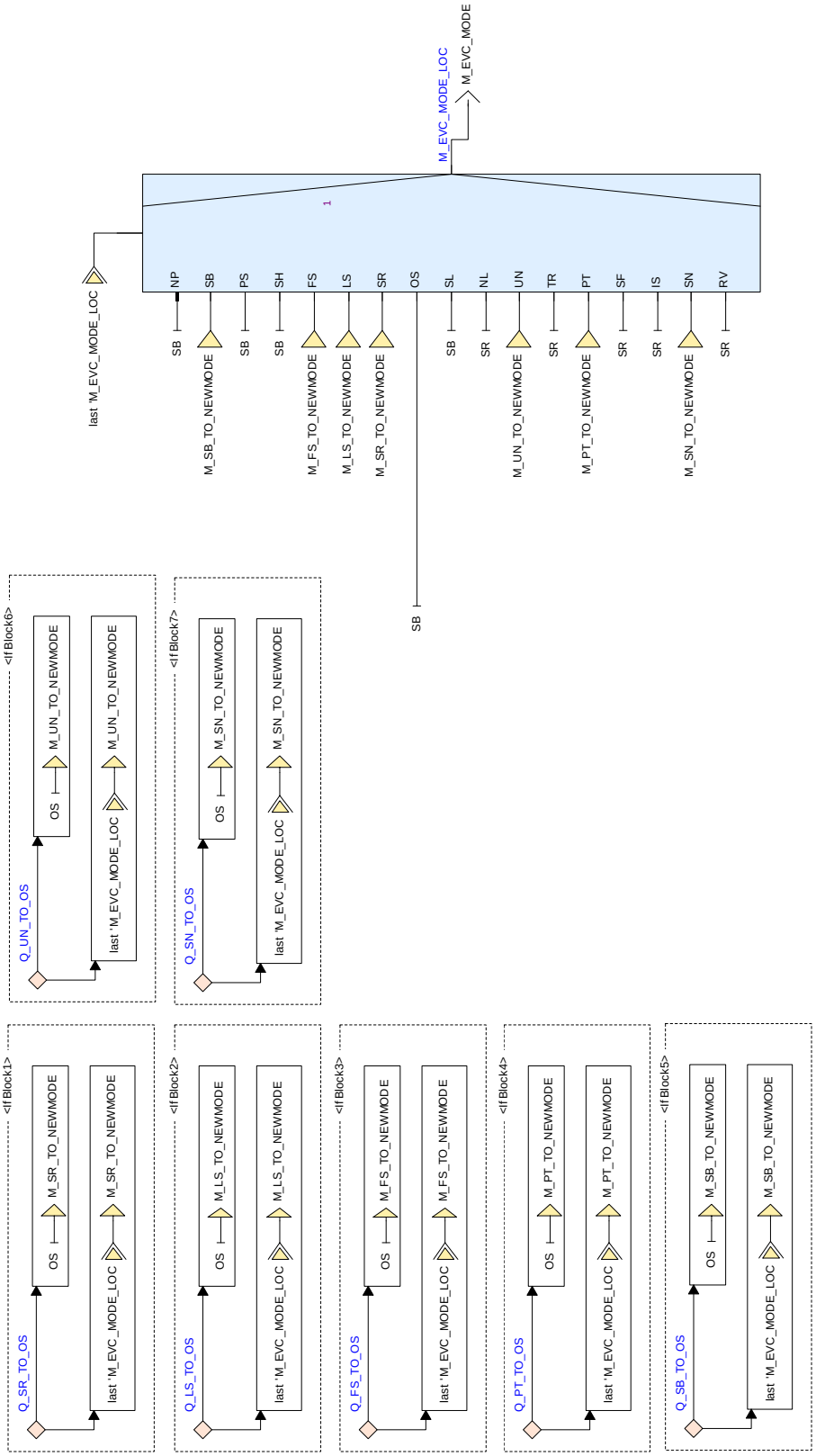

Figure 7: View of diagram_M04_A02_DETERMINE_MODE_1 (M04_A02_DETERMINE_MODE)

Table 22: Conditional Blocks of diagram_M04_A02_DETERMINE_MODE_1

Conditional Block	Comments and Information
IfBlock1	
IfBlock2	
IfBlock3	
IfBlock4	
IfBlock5	
IfBlock6	
IfBlock7	

Table 23: Actions of diagram_M04_A02_DETERMINE_MODE_1

Conditional Block Action	Comments and Information
IfBlock1:then	
IfBlock1:else	
IfBlock2:then	
IfBlock2:else	
IfBlock3:then	
IfBlock3:else	
IfBlock4:then	
IfBlock4:else	
IfBlock5:then	
IfBlock5:else	
IfBlock6:then	
IfBlock6:else	
IfBlock7:then	
IfBlock7:else	

3.1.8. M04_A03_MANAGEMENT_TEMPORISATION Operator

Declared as **`public node`**

3.1.8.1. Interface

Table 24: Inputs of M04_A03_MANAGEMENT_TEMPORISATION

Name	Type	Comments and Information
T_TEMPO_IN	int	
Q_START_CONDITION	bool	
Q_STOP_CONDITION	bool	
T_DELAY_VALUE	int	

Table 25: Outputs of M04_A03_MANAGEMENT_TEMPORISATION

Name	Type	Comments and Information
T_TEMPO_OUT	int	
Q_TEMPO_IN_PROGRESS	bool	

3.1.8.2. Locals

Table 26: Locals of M04_A03_MANAGEMENT_TEMPORISATION

Name	Type	Properties		Comments and Information
Q_TEMPO_IN_PROGRESS_LOC	bool	last	false	

3.1.8.3. Operator Hierarchy

diagram : diagram_M04_A03_MANAGEMENT_TEMPORISATION_1
- *activate if* : IfBlock1
  - branch : then
  - branch : else
    - branch : then
    - branch : else
      - branch : then
        - *activate if* : IfBlock2
          - branch : then
          - branch : else
      - branch : else

3.1.8.4. Graphical and Textual Diagrams

3.1.8.4.1. View of diagram_M04_A03_MANAGEMENT_TEMPORISATION_1 (M04_A03_MANAGEMENT_TEMPORISATION)

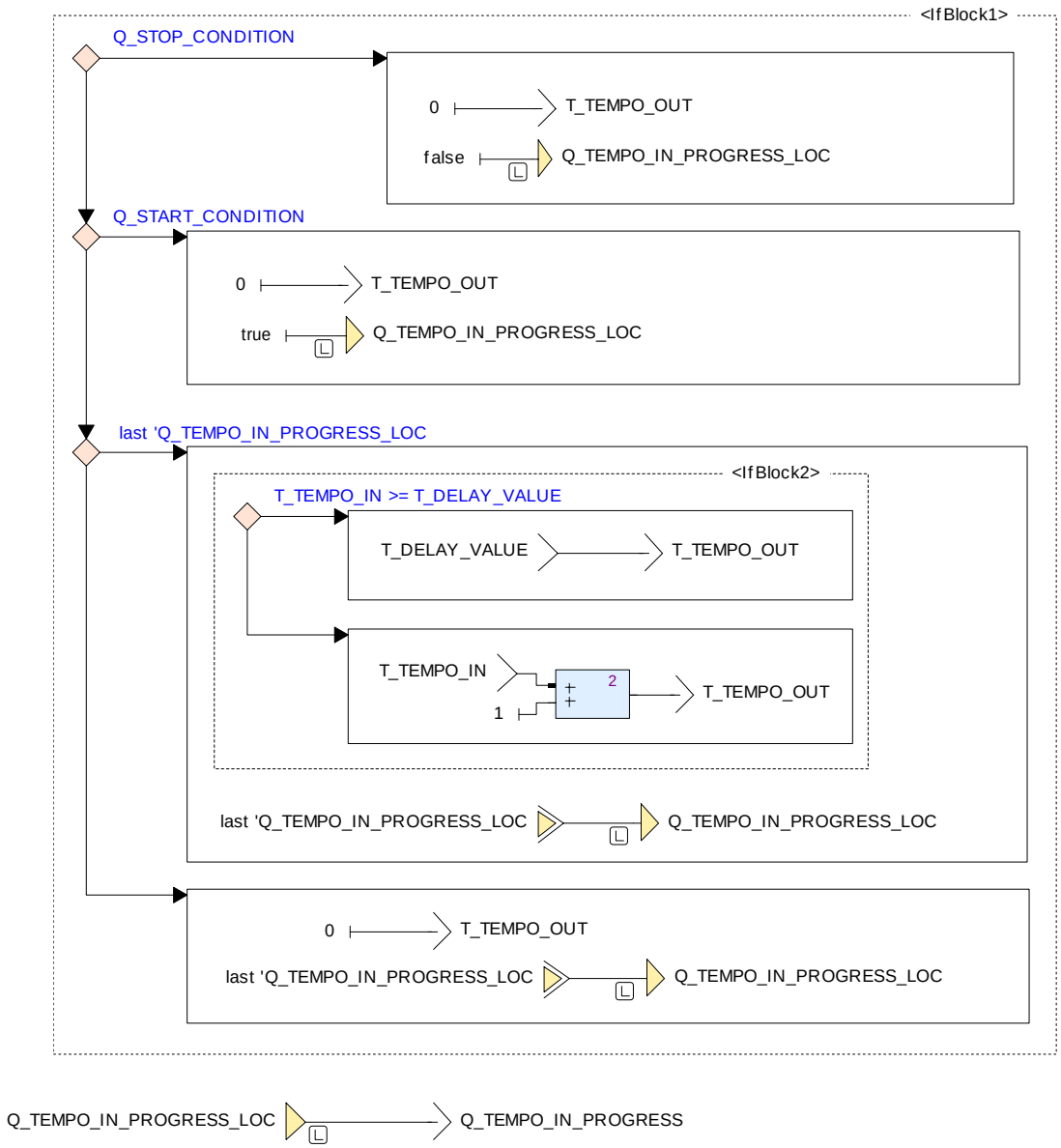

Figure 8: View of diagram_M04_A03_MANAGEMENT_TEMPORISATION_1 (M04_A03_MANAGEMENT_TEMPORISATION)

Table 27: Conditional Blocks of diagram_M04_A03_MANAGEMENT_TEMPORISATION_1

Conditional Block	Comments and Information
IfBlock1	
IfBlock1:else:else:then:IfBlock2	

Table 28: Actions of diagram_M04_A03_MANAGEMENT_TEMPORISATION_1

Conditional Block Action	Comments and Information
IfBlock1:then	
IfBlock1:else:then	
IfBlock1:else:else:then	

Conditional Block Action	Comments and Information
IfBlock1:else:else:then:IfBlock2:then	
IfBlock1:else:else:then:IfBlock2:else	
IfBlock1:else:else:else	

3.1.9. M05_A00_BUILD_DATAS_OUT Operator

Declared as **`public function`**

3.1.9.1. Interface

Table 29: Inputs of M05_A00_BUILD_DATAS_OUT

Name	Type	Comments and Information
Q_ACK_REQUEST_OS_MODE	bool	
Q_SERVICE_BRAKE_COMMAND	bool	

Table 30: Outputs of M05_A00_BUILD_DATAS_OUT

Name	Type	Comments and Information
M_DATAS_OUT_DMI	s_datas_out_dmi	
M_DATAS_OUT_BIU	s_datas_out_biu	

3.1.9.2. Operator Hierarchy

diagram : diagram_M05_A00_BUILD_DATAS_OUT_1

3.1.9.3. Graphical and Textual Diagrams

3.1.9.3.1. View of diagram_M05_A00_BUILD_DATAS_OUT_1 (M05_A00_BUILD_DATAS_OUT)

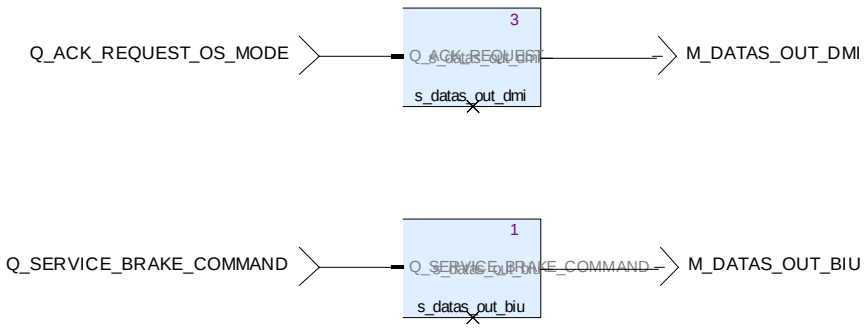

Figure 9: View of diagram_M05_A00_BUILD_DATAS_OUT_1 (M05_A00_BUILD_DATAS_OUT)

4. Project Library: lib_Types_And_Constants

4.1. Root Elements

4.1.1. Types

Table 31: Public Types of lib_Types_And_Constants

Name	Definition	Comments and Information
enum_evc_mode	enum {NP, SB, PS, SH, FS, LS, SR, OS, SL, NL, UN, TR, PT, SF, IS, SN, RV}	Comments: Enumeration of EVC mode NP Comments: No Power SB Comments: Stand By PS Comments: Passive Shunting SH Comments: Shunting FS Comments: Full Supervision LS Comments: Limited Supervision SR Comments: Staff Responsible OS Comments: On Sight SL Comments: Sleeping NL Comments: Non Leading UN Comments: Unfitted TR Comments: Trip PT Comments: Post Trip SF Comments: System Failure IS Comments: Isolation SN Comments: National System RV Comments: Reversing
enum_level_etcs	enum {LEVEL_0, LEVEL_NTC, LEVEL_1, LEVEL_2, LEVEL_3}	Comments: Enumeration of ETCS levels
enum_mamode	enum {PROFILE_OS, PROFILE_SH, PROFILE_LS, NO_PROFILE}	Comments: Enumeration of the mode profile PROFILE_OS Comments: On Sight profile PROFILE_SH Comments: Shunting profile PROFILE_LS Comments: Limited Supervision profile NO_PROFILE Comments: No profile

Name	Definition	Comments and Information
s_datas_in_btm	{M_PACKET_GEO_POS_INFO : s_packet_geographical_position_information, M_PACKET_MODE_PROFILE : s_packet_mode_profile, NID_LRBG_BTM : int}	Comments: Structure associated to the inputs of the BTM sub-system M_PACKET_GEO_POS_INFO Comments: Packet geographical position information M_PACKET_MODE_PROFILE Comments: Packet Mode Profile NID_LRBG_BTM Comments: Identity of last relevant balise group
s_datas_in_dmi	{Q_DRIVER_ACK_OS_MODE : bool}	Comments: Structure associated to the inputs of the DMI sub-system Q_DRIVER_ACK_OS_MODE Comments: Acknowledgement for OS mode send by the driver
s_datas_in_odo	{D_DISTANCE_ODO : int}	Comments: Structure associated to the inputs of the ODO sub-system D_DISTANCE_ODO Comments: Distance extracted of the ODO sub-system
s_datas_in_radio	{M_PACKET_GEO_POS_INFO : s_packet_geographical_position_information, M_PACKET_MODE_PROFILE : s_packet_mode_profile}	Comments: Structure associated to the inputs of the Radio sub-system M_PACKET_GEO_POS_INFO Comments: Packet geographical position information M_PACKET_MODE_PROFILE Comments: Packet Mode Profile
s_datas_out_biu	{Q_SERVICE_BRAKE_COMMAND : bool}	Comments: Structure associated to the outputs of the BIU sub-system Q_SERVICE_BRAKE_COMMAND Comments: Service brake command
s_datas_out_dmi	{Q_ACK_REQUEST : bool}	Comments: Structure associated to the outputs of the DMI sub-system Q_ACK_REQUEST Comments: Acknowledgement requested to the driver

Name	Definition	Comments and Information
s_geo_pos_info	{NID_BG : int, D_POSOFF : int, M_POSITION : int}	Comments: Structure associated to the geographical position information NID_BG Comments: Identity number of the balise group D_POSOFF Comments: Offset from the location reference of the geographical position reference balise group to the related track kilometre reference M_POSITION Comments: Track kilometre reference value
s_os_area	{D_START_OS_AREA : int, M_MAMODE : enum_mamode, V_OS_AREA : int, L_OS_AREA : int, L_ACK_OS_AREA : int}	Comments: Structure associated of the OS area D_START_OS_AREA Comments: Incremental distance to the start of the OS area M_MAMODE Comments: Required mode for a part of the MA V_OS_AREA Comments: Speed of the OS area L_OS_AREA Comments: Length of the OS area L_ACK_OS_AREA Comments: Length of the acknowledgement area in rear of the start of the OS area
s_packet_geographical_position_information	{NID_BG : int, D_POSOFF : int, M_POSITION : int}	Comments: Structure associated to the packet geographical location information for one or multiple references to the train NID_BG Comments: Identity number of the balise group D_POSOFF Comments: Offset from the location reference of the geographical position reference balise group to the related track kilometre reference M_POSITION Comments: Track kilometre reference value

Name	Definition	Comments and Information
s_packet_mode_profile	{D_MAMODE : int, M_MAMODE : enum_mamode, V_MAMODE : int, L_MAMODE : int, L_ACKMAMODE : int}	Comments: Structure associated to the packet mode profile associated to an MA D_MAMODE Comments: Incremental distance to the start of the next Mode Profile M_MAMODE Comments: Required mode for a part of the MA V_MAMODE Comments: Required mode related speed L_MAMODE Comments: Length of the area of the required mode L_ACKMAMODE Comments: Length of the acknowledgement area in rear of the start of the required mode
s_parameters	{D_DISTANCE_ANTENNA_MAX_SAFE_FRONT : int, D_DISTANCE_ANTENNA_MIN_SAFE_FRONT : int}	Comments: Structure associated of parameters D_DISTANCE_ANTENNA_MAX_SAFE_FRONT Comments: Distance between the antenna and the max safe front position of the train D_DISTANCE_ANTENNA_MIN_SAFE_FRONT Comments: Distance between the antenna and the min safe front position of the train
s_train_information	{M_TRAIN_POSITIONS : s_train_positions, V_TRAIN_SPEED : int}	Comments: Structure associated to the informations of a train M_TRAIN_POSITIONS Comments: Positions of the train V_TRAIN_SPEED Comments: Speed of the train
s_train_positions	{M_POSITION : int, D_POSOFF_MAX_SAFE_FRONT : int, D_POSOFF_MIN_SAFE_FRONT : int}	Comments: Structure associated of positions of a train M_POSITION Comments: Track kilometre reference value D_POSOFF_MAX_SAFE_FRONT Comments: Offset from the max safe front position to the related track kilometre reference D_POSOFF_MIN_SAFE_FRONT Comments: Offset from the min safe front position to the related track kilometre reference

4.1.2. Constants

Table 32: Public Constants of lib_Types_And_Constants

Name	Type	Value	Comments and Information
K_DELAY_DRIVER_ACK	int	50	Comments: Delay waiting for the acknowledge of the driver (in cycles)
K_GEO_POS_INFO_DEF	s_geo_pos_info	{NID_BG : 0, D_POSOFF : 0, M_POSITION : 0}	Comments: Geographical position information by default
K_OS_AREA_DEF	s_os_area	{D_START_OS_AREA : 0, M_MAMODE : NO_PROFILE, V_OS_AREA : 0, L_OS_AREA : 0, L_ACK_OS_AREA : 0}	Comments: OS area by default
K_PERIOD_APPLI	int	100	Comments: Period of the application EVC (in milliseconds)
K_S_TO_MS	int	1000	Comments: Conversion seconds to milliseconds
K_TRAIN_POSITIONS_DEF	s_train_positions	{M_POSITION : 0, D_POSOFF_MAX_SAFE_FRONT : 0, D_POSOFF_MIN_SAFE_FRONT : 0}	Comments: Positions by default of the train (in meters)
K_TRAIN_SPEED_DEF	int	0	Comments: Speed by default of the train (in m/s)

End of document.