









































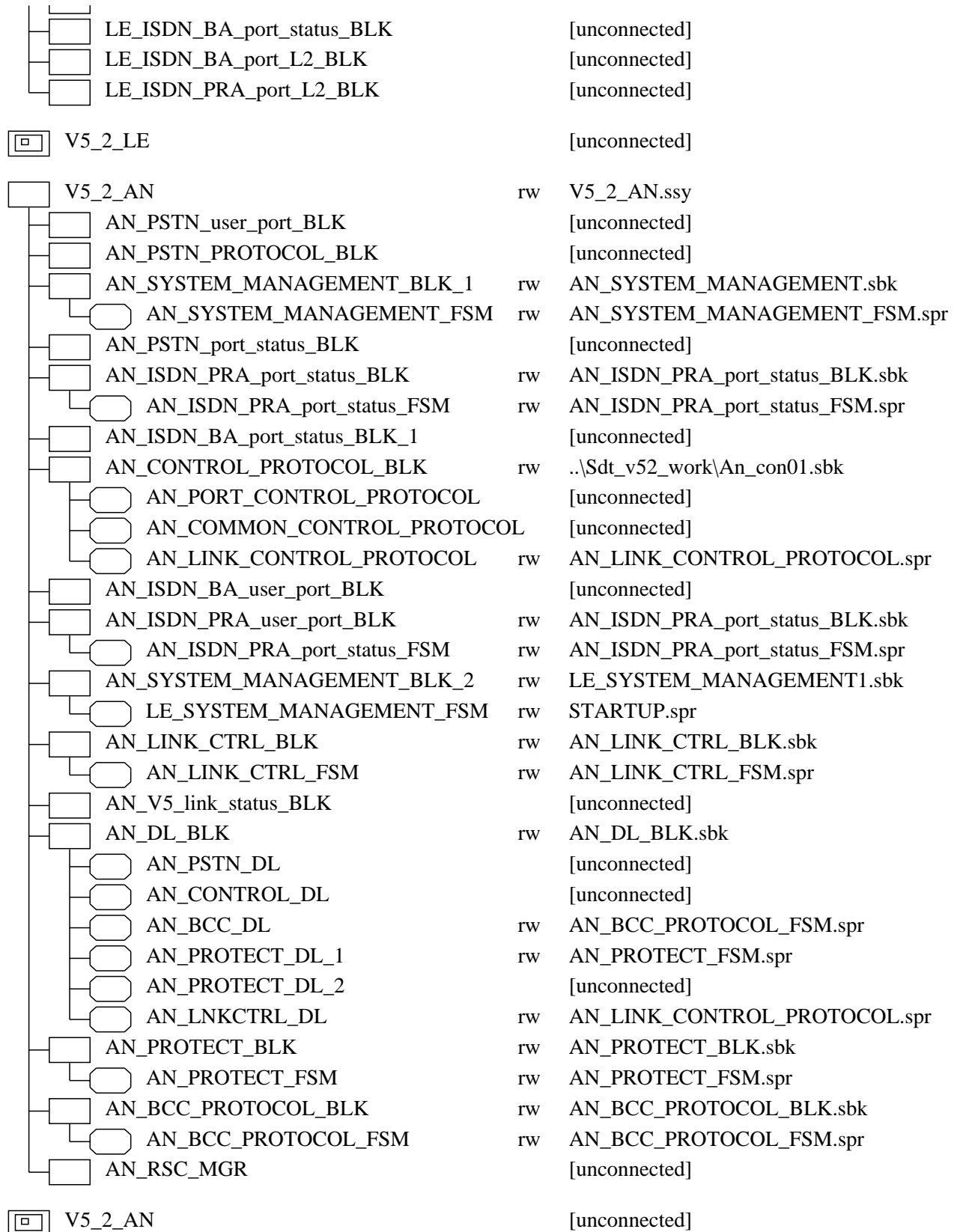


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	rw	C:\WINDOWS\Desktop\V5_2_2nd_edition\V5_2.sdt
	rw	C:\WINDOWS\Desktop\V5_2_2nd_edition\
 Startup_procedure	rw	ETSISStartup.sbk
 Startup	rw	STARTUP.spr
 L2Act_Sequential	rw	L2Act_Sequential.spr
 LKMGMT	rw	LKMGMT.spr
 VIDCHECK	rw	VIDCHECK.spr
 Data_Link_Recovery	rw	Data_Link_Recovery.spr
 L2Act_Parallel	rw	L2Act_Parallel.spr
 Block_all_ports	rw	Block_all_ports.spr
 Unblock_all_relevant_ports	rw	Unblock_all_relevant_ports.spr
 Description		[unconnected]
 V5_2_LE	rw	V5_2_LE.ssy
 LE_V5_link_status_BLK		[unconnected]
 LE_SYSTEM_MANAGEMENT_BLK	rw	LE_SYSTEM_MANAGEMENT.sbk
 LE_SYSTEM_MANAGEMENT_FSM	rw	LEREPRO.spr
 LE_DL_BLK	rw	LE_DL_BLK.sbk
 LE_CONTROL_DL		[unconnected]
 LE_BCC_DL		[unconnected]
 LE_PROTECT_DL_1		[unconnected]
 LE_PROTECT_DL_2		[unconnected]
 LE_PSTN_DL		[unconnected]
 LE_LNKCTRL_DL		[unconnected]
 LE_PROTECT_BLK	rw	LE_PROTECT_BLK.sbk
 LE_PROTECT_FSM	rw	LE_PROTECT_FSM.spr
 LE_RSC_MGR		[unconnected]
 LE_BCC_PROTOCOL_BLK	rw	LE_BCC_PROTOCOL_BLK.sbk
 LE_BCC_PROTOCOL_FSM	rw	LE_BCC_PROTOCOL_FSM.spr
 LE_PSTN_PROTOCOL_BLK		[unconnected]
 LE_SYSTEM_MANAGEMENT_BLK_1	rw	LE_SYSTEM_MANAGEMENT.sbk
 LE_SYSTEM_MANAGEMENT_FSM	rw	LE_SYSTEM_MANAGEMENT.spr
 LE_ISDN_PRA_port_L2_MGT_BLK		[unconnected]
 LE_ISDN_PRA_port_status_BLK	rw	LE_ISDN_PRA_port_status_BLK.sbk
 LE_ISDN_PRA_port_status_FSM	rw	LE_ISDN_PRA_port_status_FSM.spr
 LE_CONTROL_PROTOCOL_BLK	rw	LE_CONTROL_PROTOCOL_BLK.sbk
 LE_PORT_CONTROL_PROTOCOL		[unconnected]
 LE_COMMON_CONTROL_PROTOCOL		[unconnected]
 LE_LINK_CONTROL_PROTOCOL	rw	LE_LINK_CONTROL_PROTOCOL.spr
 LE_LINK_CTRL_BLK	rw	LE_LINK_CTRL_BLK.sbk
 LE_LINK_CTRL_FSM	rw	LE_LINK_CTRL_FSM.spr
 LE_PSTN_port_status_BLK		[unconnected]
 national_PSTN_PROTOCOL_BLK		[unconnected]
LE ISDN BA port L2 MGT BLK		[unconnected]



- Analysis Model
- Used Files
- SDL System Structure
- TTCN Test Specification

———— Other Documents

Block ETSIStartup

Process_info(1)



Startup

L2Act_Sequential

LKMGMT

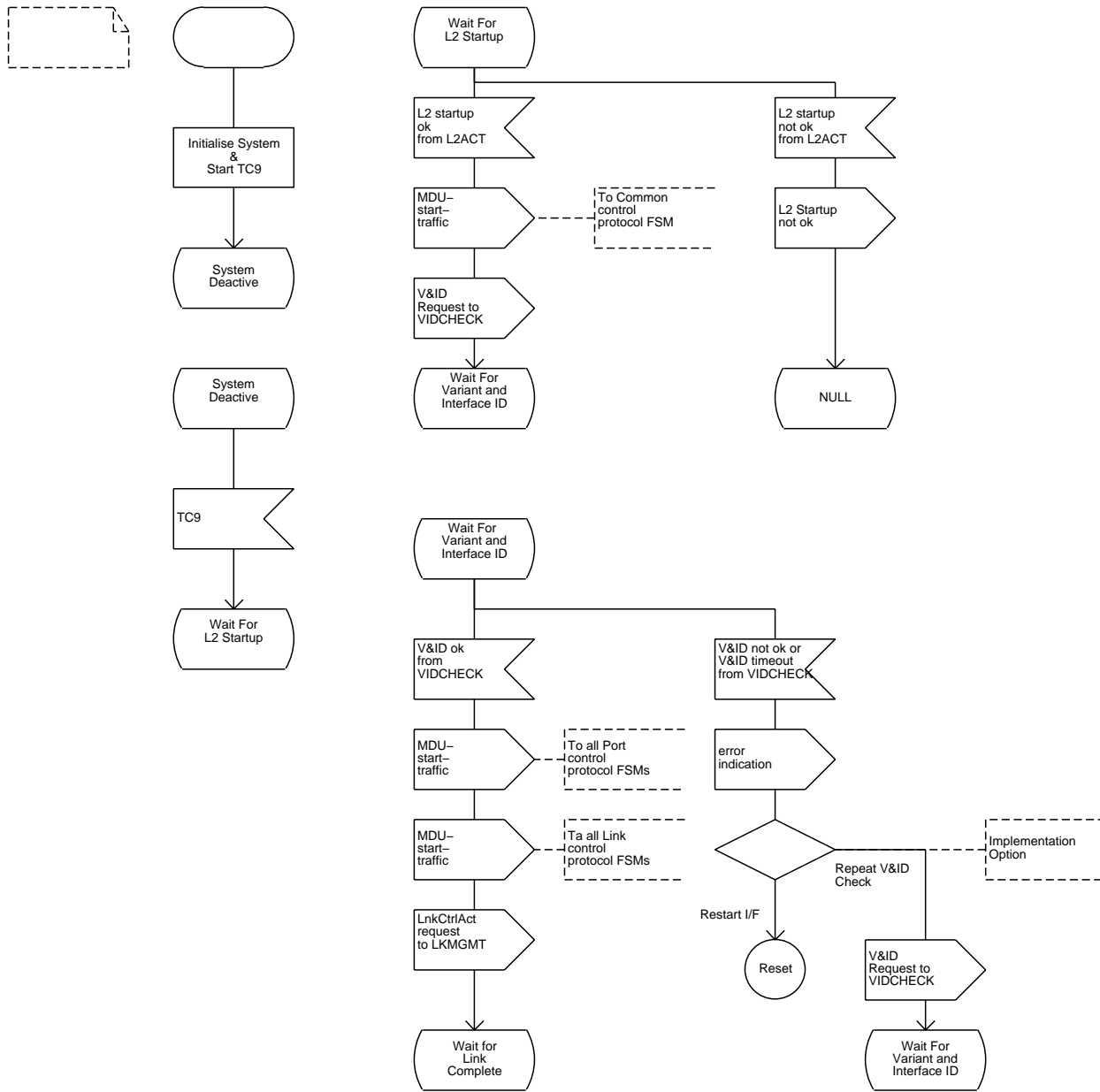
VIDCHECK

Data_Link_Recovery

L2Act_Parallel

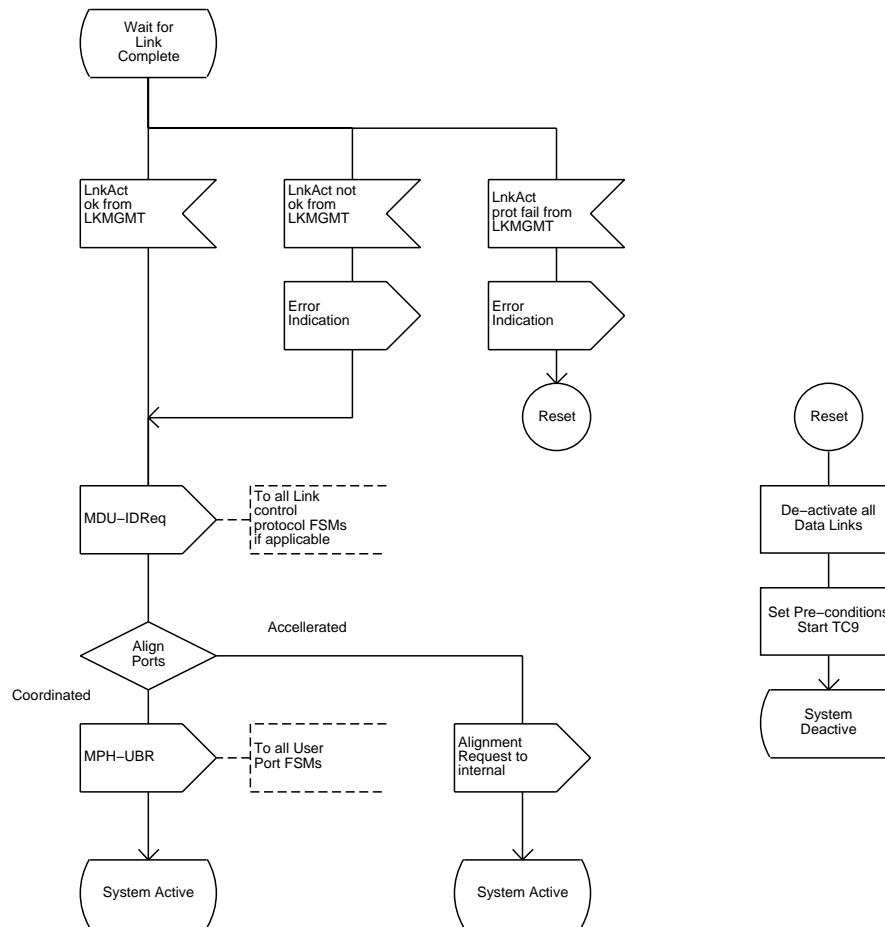
Process Startup

1(2)



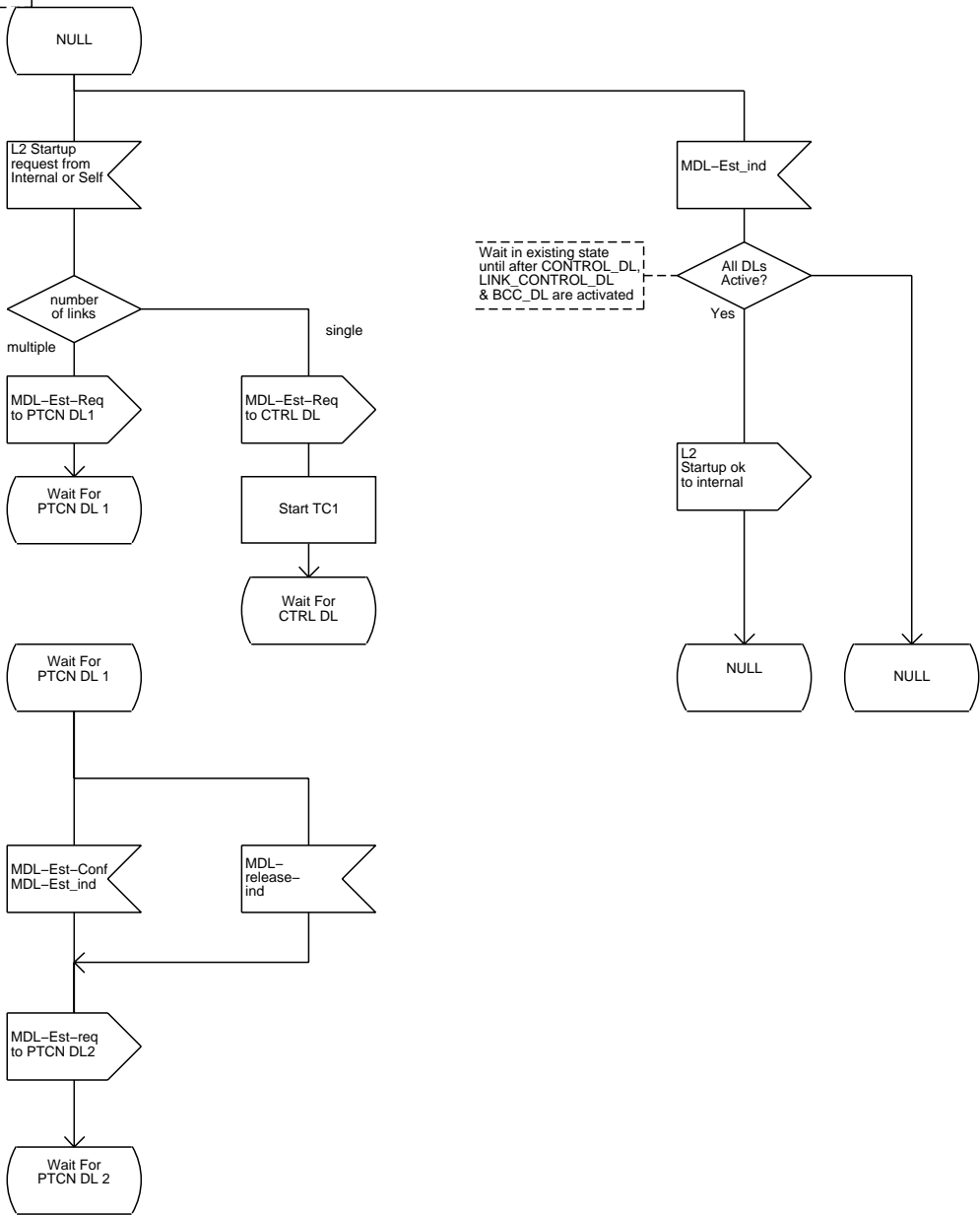
Process Startup

2(2)



Process L2Act_Sequential

This SDL illustrates a sequential Data Link layer activation.



2(5)

```

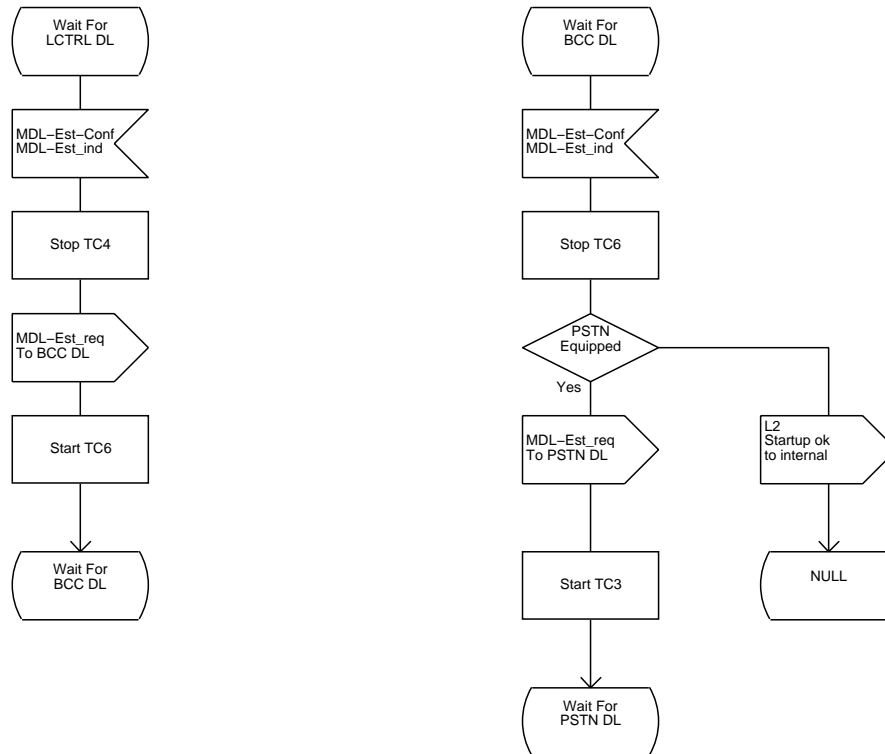
graph TD
    Start([Wait For PTCN DL 2]) --> MDL_Est_Conf[MDL-Est-Conf  
MDL-Est_ind]
    MDL_Est_Conf --> PTCN_DL_avail{PTCN DL  
avail}
    PTCN_DL_avail -- No --> MDL_Release_Ind[MDL-release-ind]
    MDL_Release_Ind --> MDL_Est_Conf
    PTCN_DL_avail --> MDU_Prot[MDU-Prot  
(reset SN req)]
    MDU_Prot --> MDL_Est_Req_CTRL[MDL-Est_Req  
to CTRL DL]
    MDL_Est_Req_CTRL --> Start_TC1[Start TC1]
    Start_TC1 --> Wait_CTRL_DL([Wait For CTRL DL])
    MDL_Est_Req_CTRL -.-> Note[To both Prot  
data links]
    Note -.-> MDL_Est_Req_Prot[MDL-Est_Req]
    MDL_Est_Req_Prot --> MDU_Prot

```

Process L2Act_Sequential

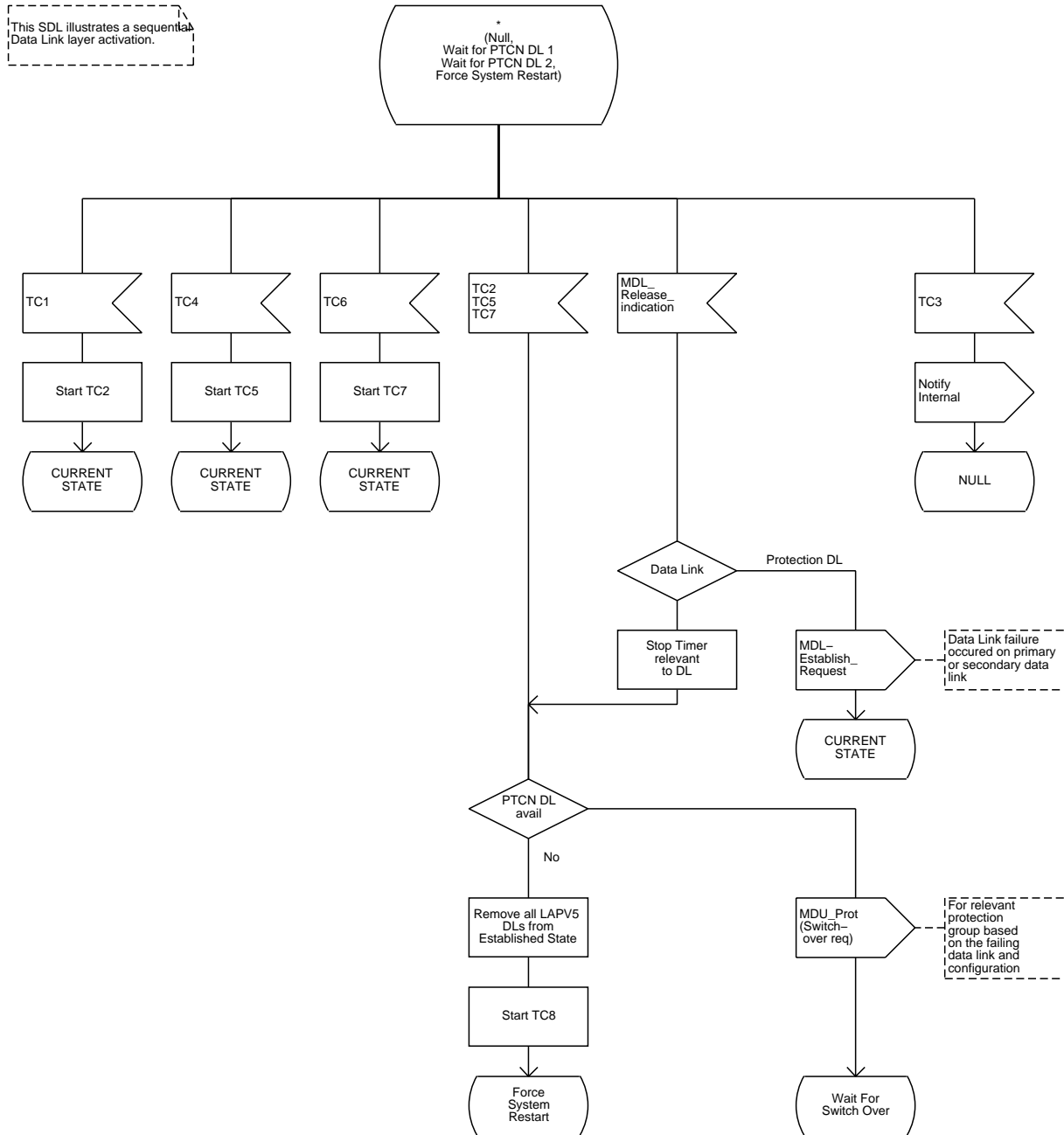
3(5)

This SDL illustrates a sequential
Data Link layer activation.



Process L2Act_Sequential

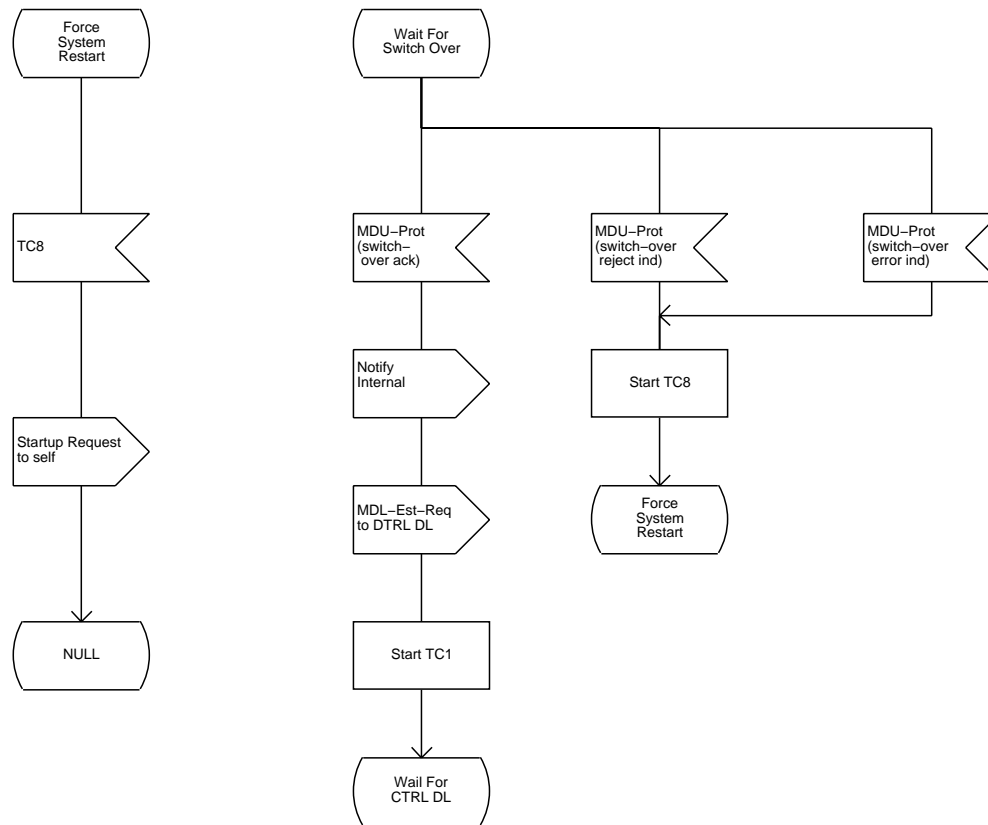
4(5)

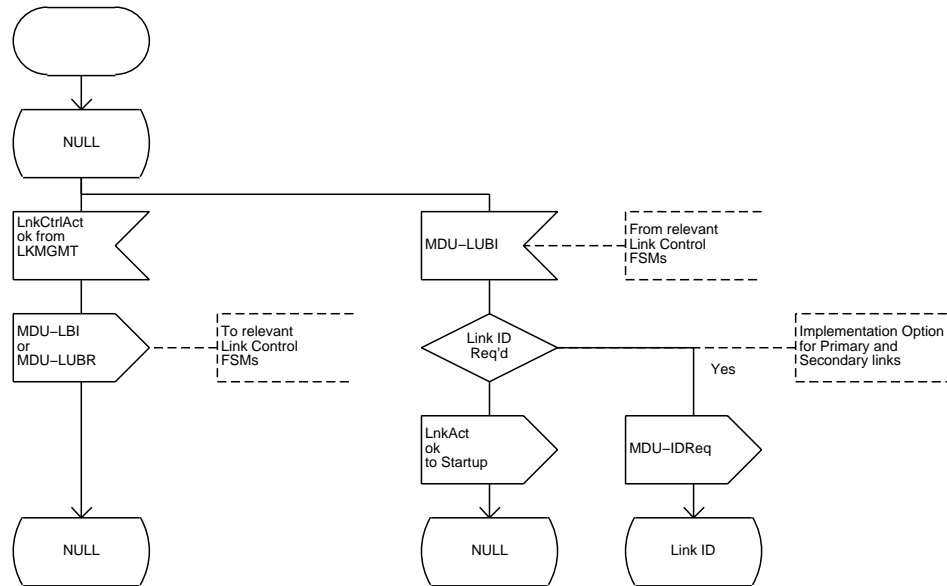


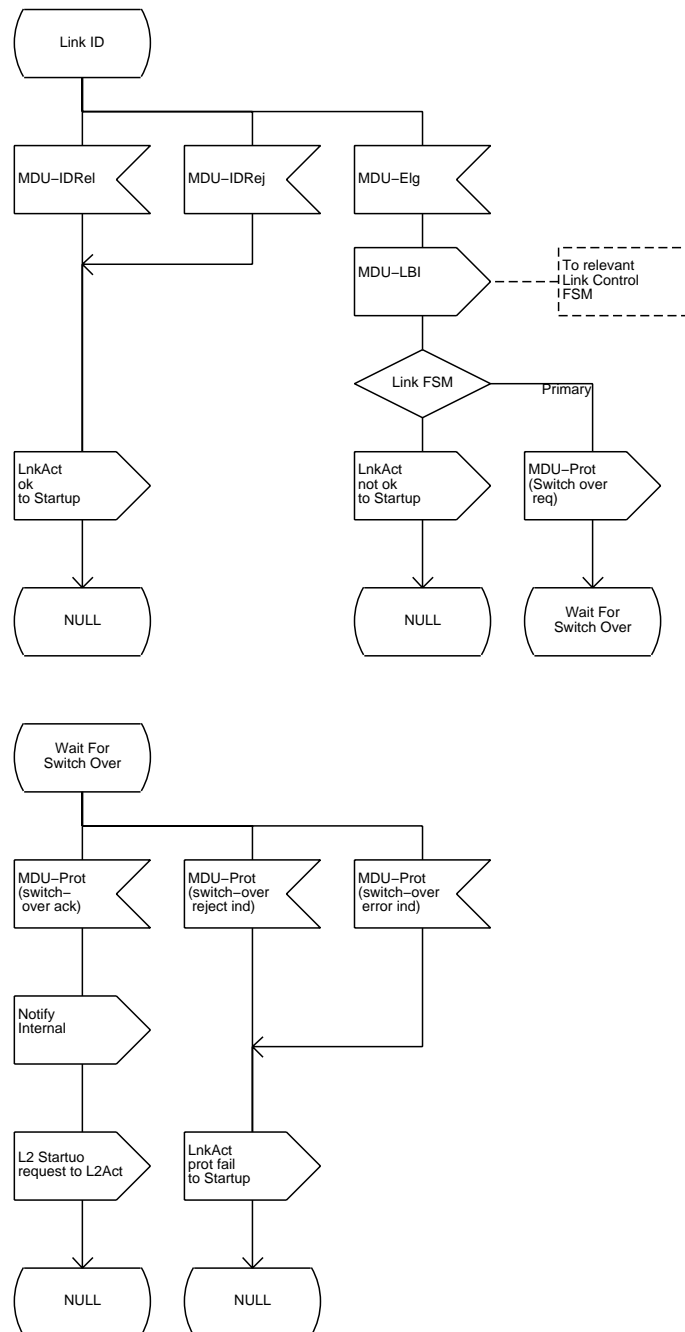
Process L2Act_Sequential

5(5)

This SDL illustrates a sequential Data Link layer activation.

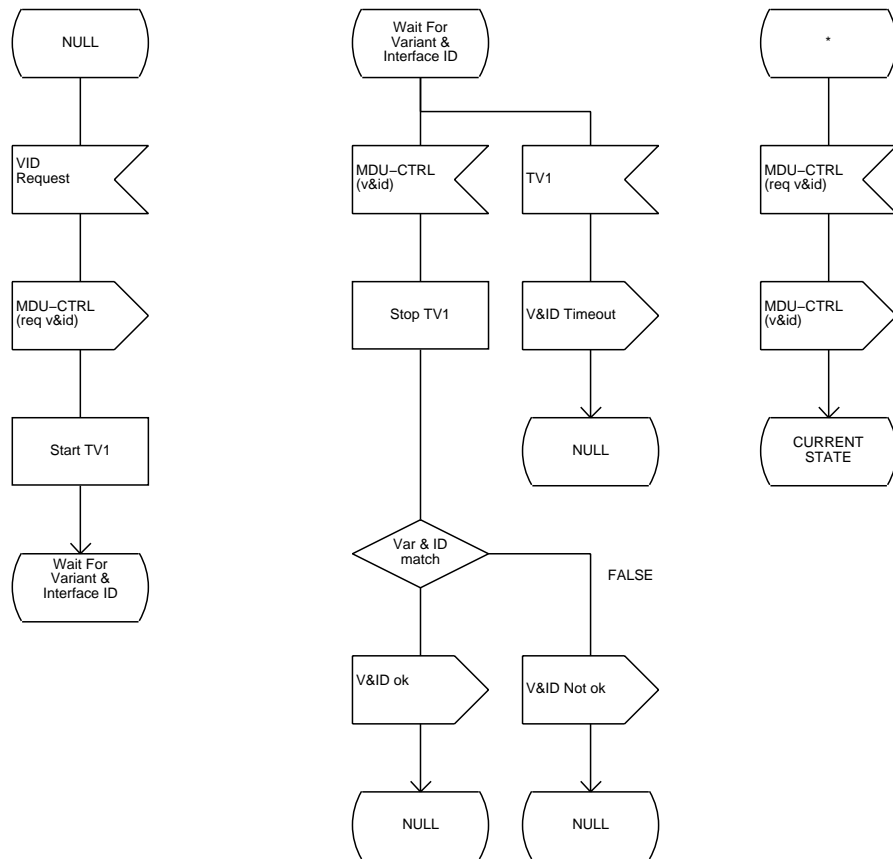






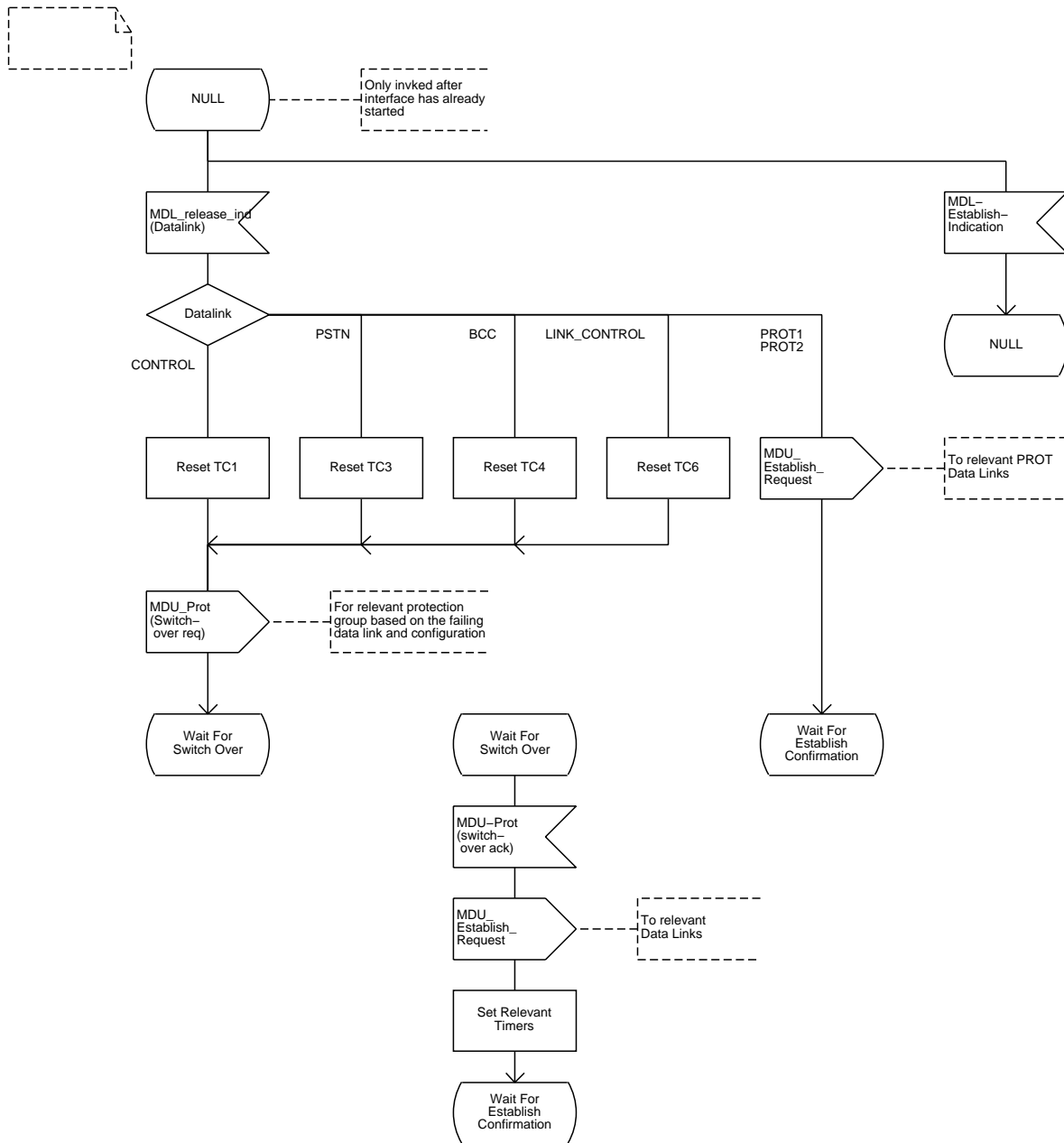
Process VIDCHECK

1(1)



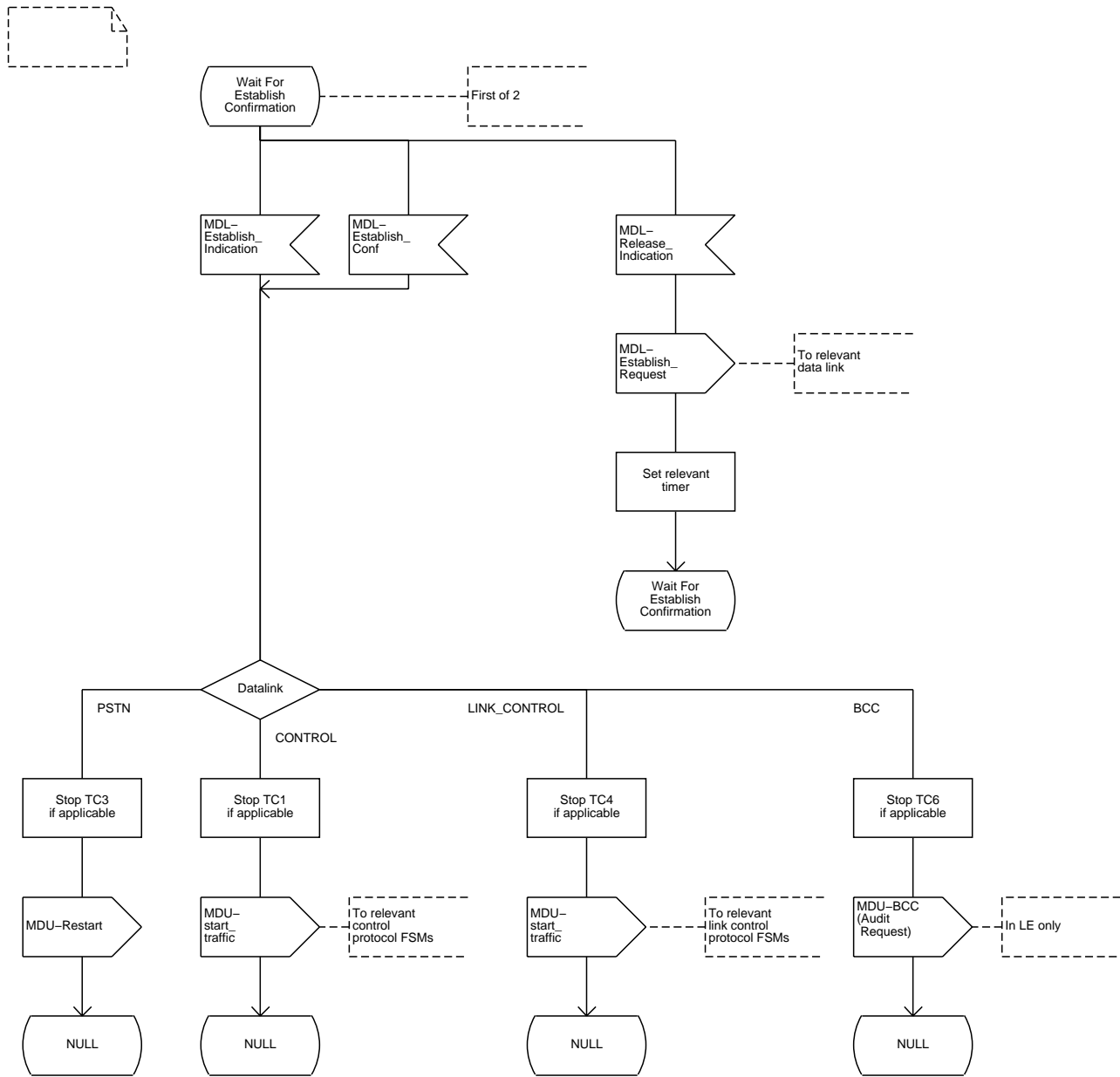
Process Data_Link_Recovery

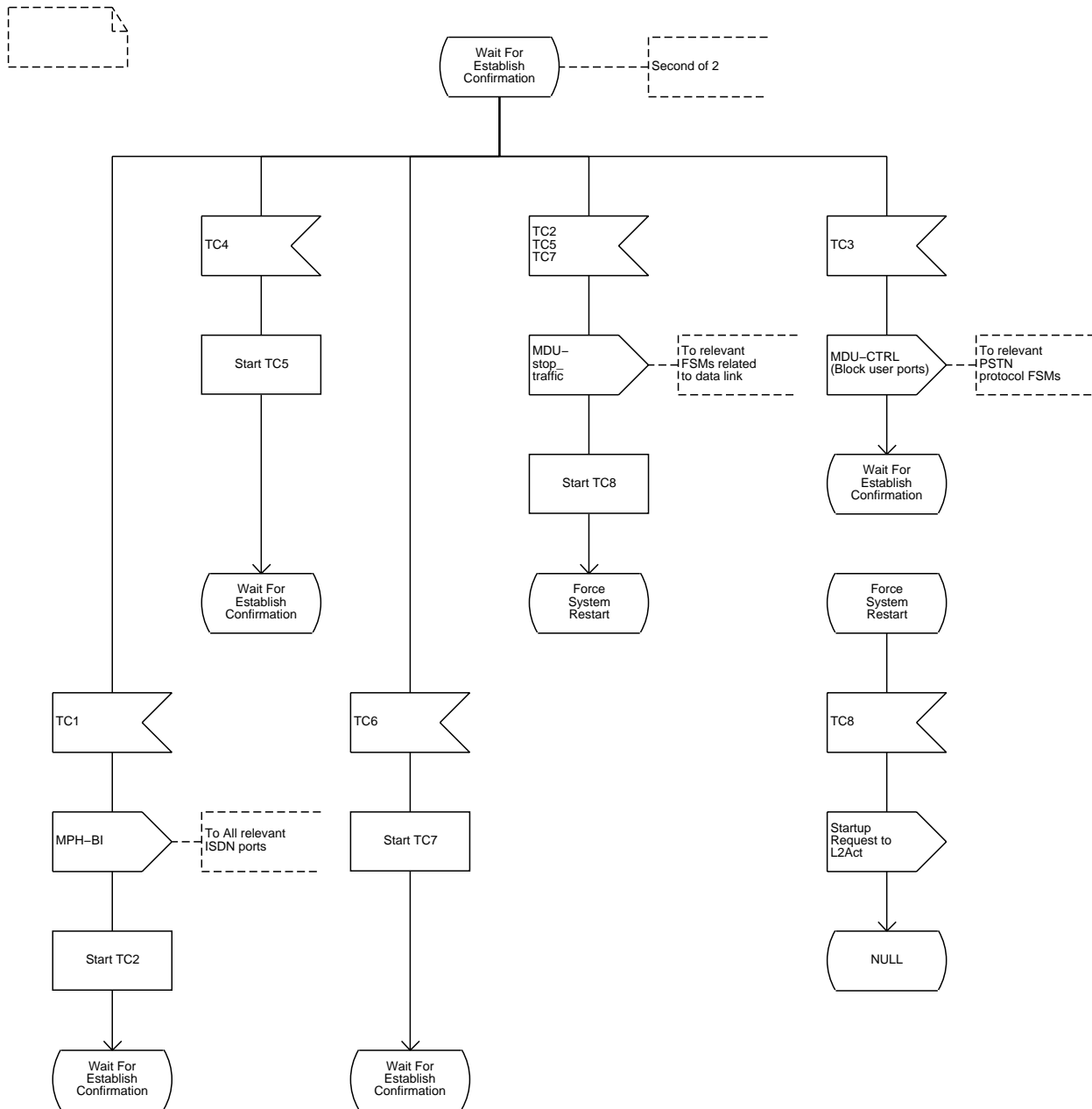
1(3)



Process Data_Link_Recovery

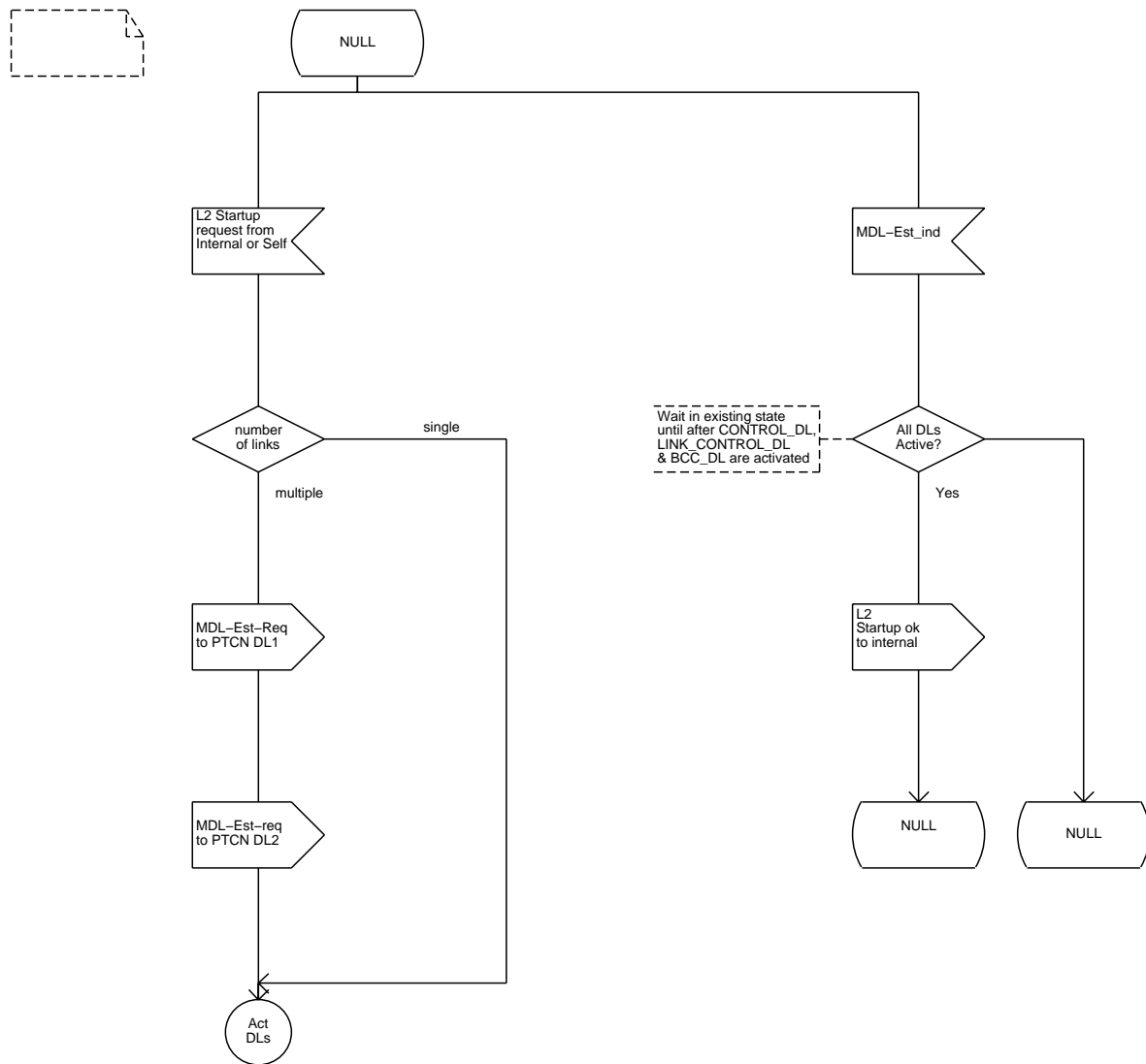
2(3)

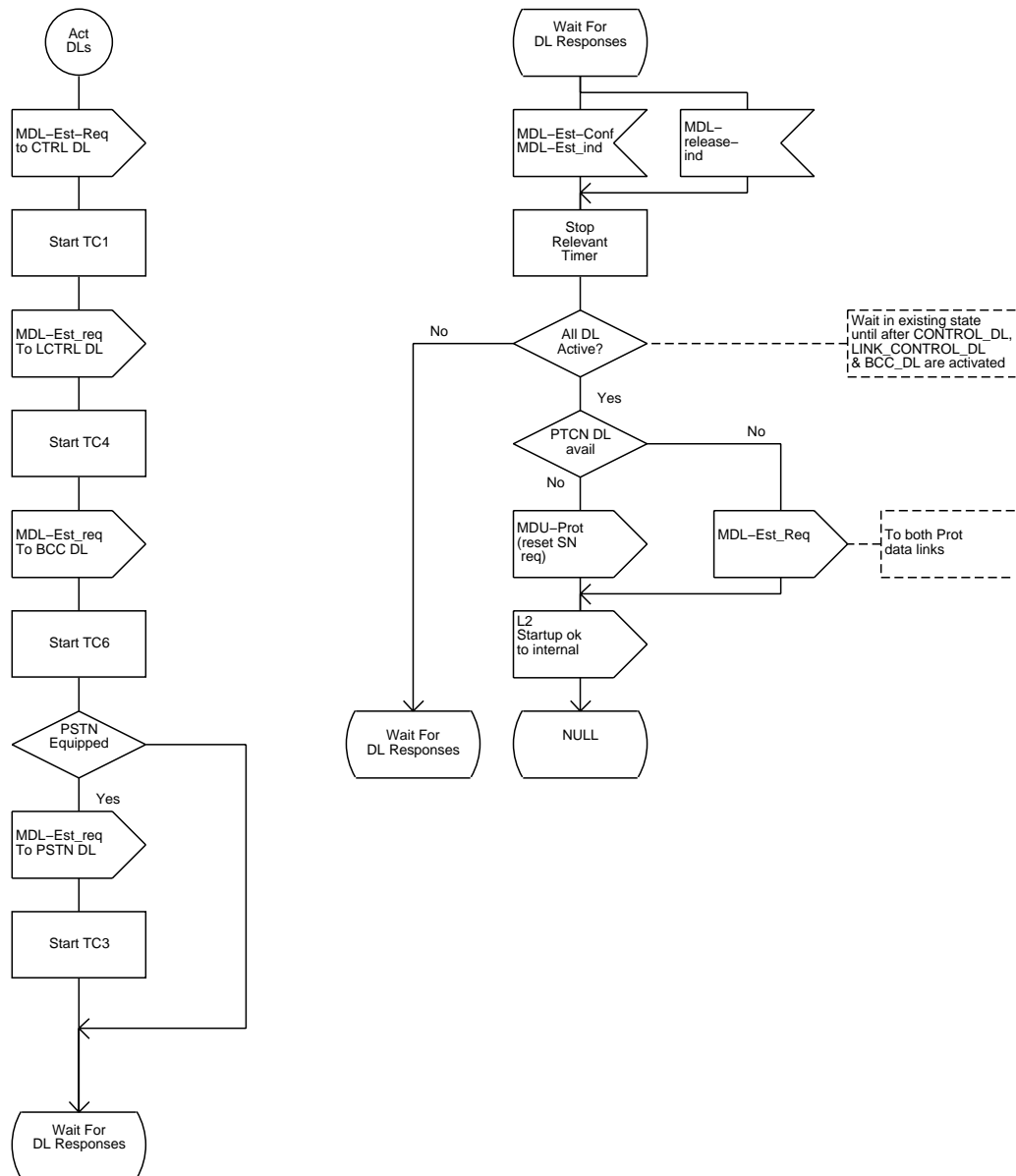


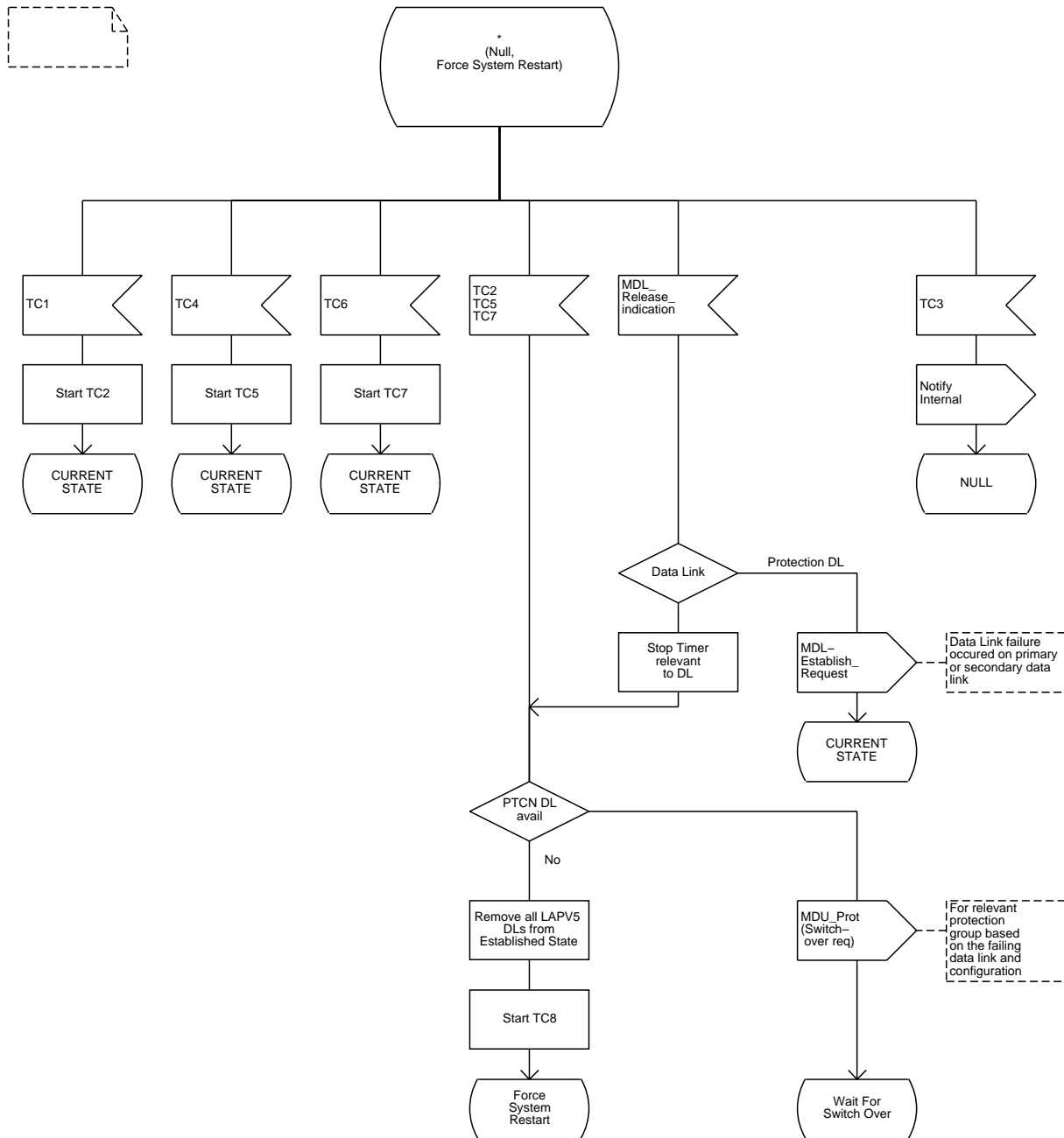


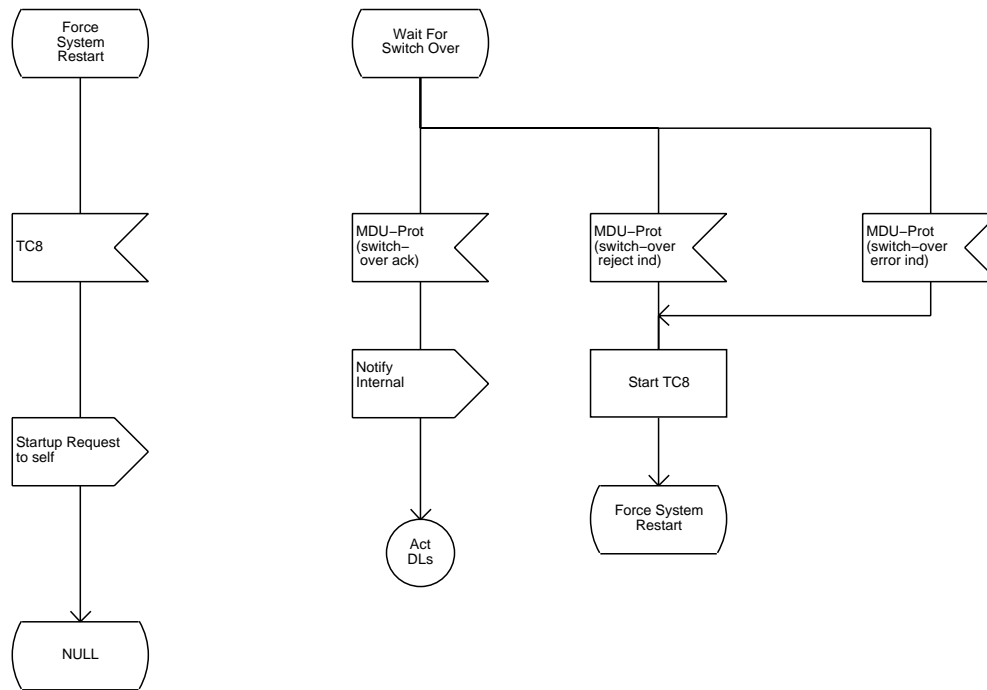
Process L2Act_Parallel

1(4)



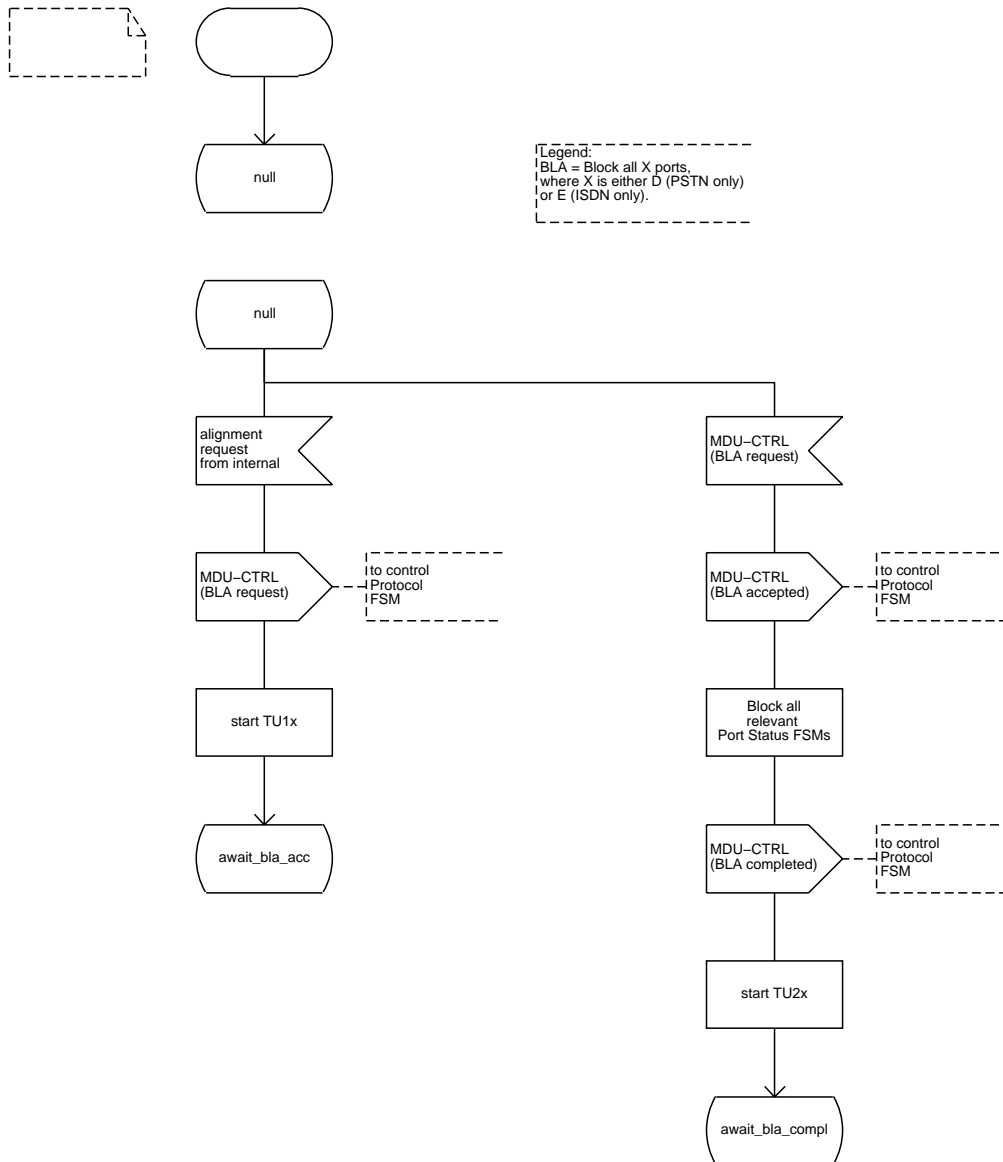






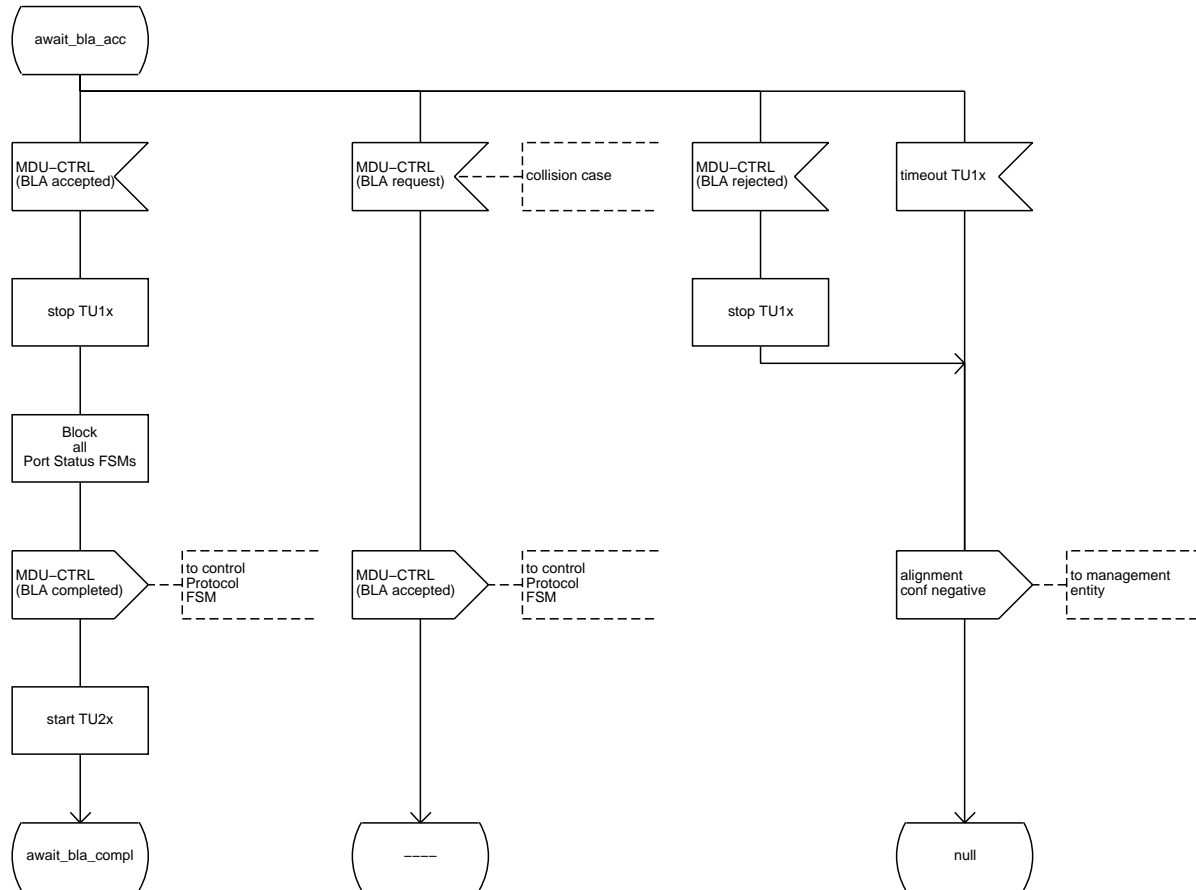
Process Block_all_ports

1(3)



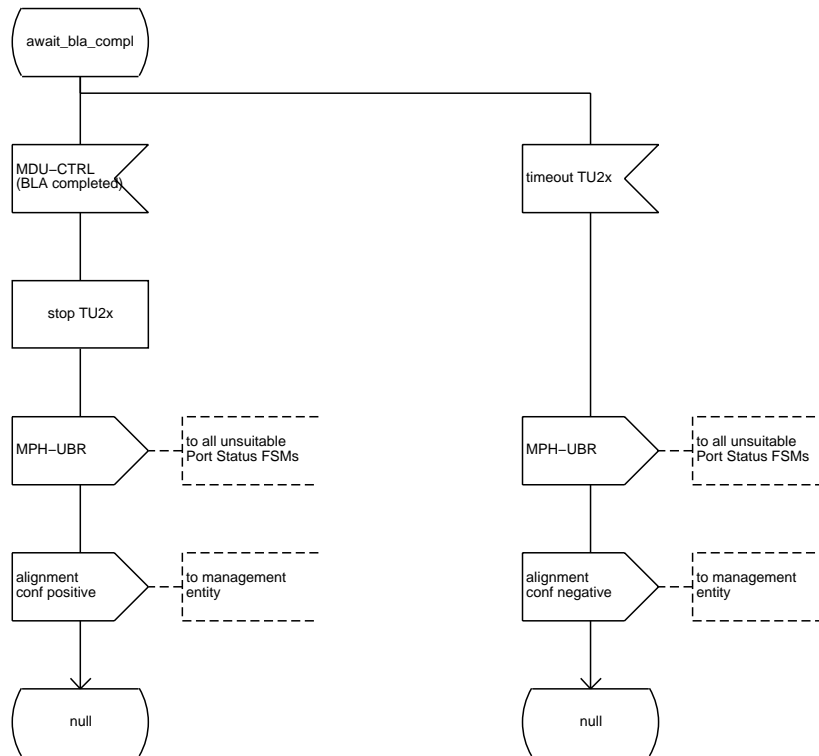
Process Block_all_ports

2(3)



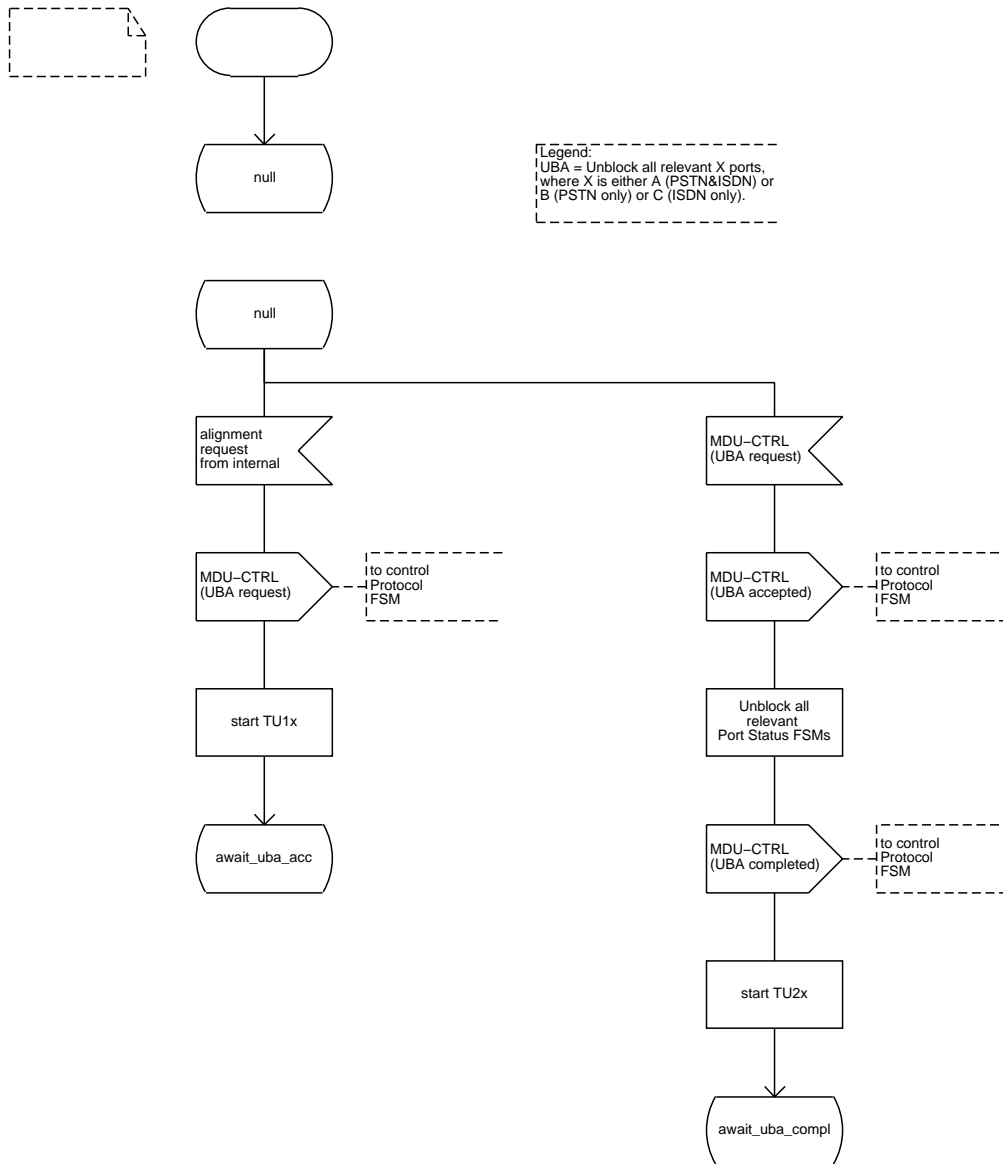
Process Block_all_ports

3(3)



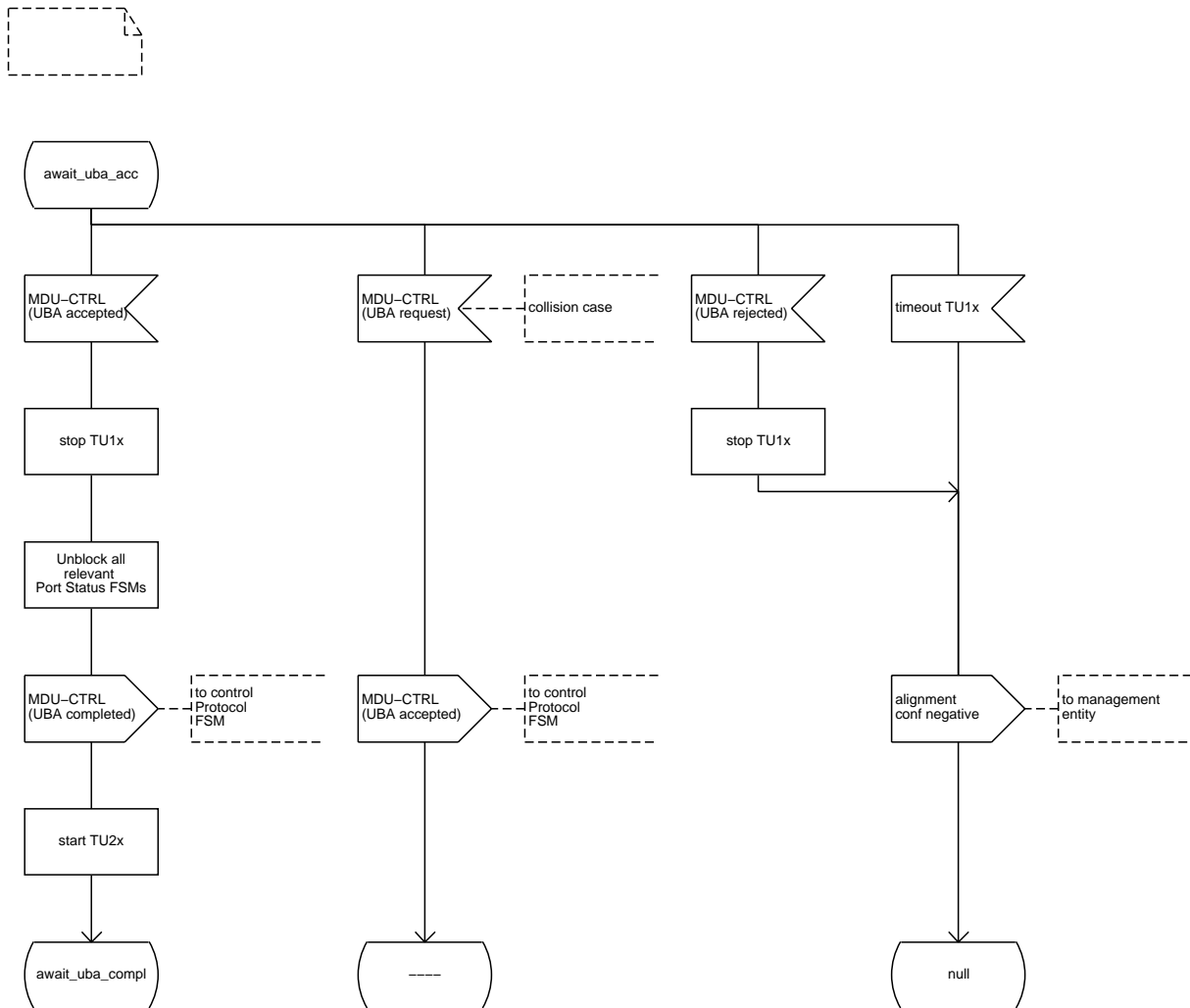
Process Unblock_all_relevant_ports

1(3)



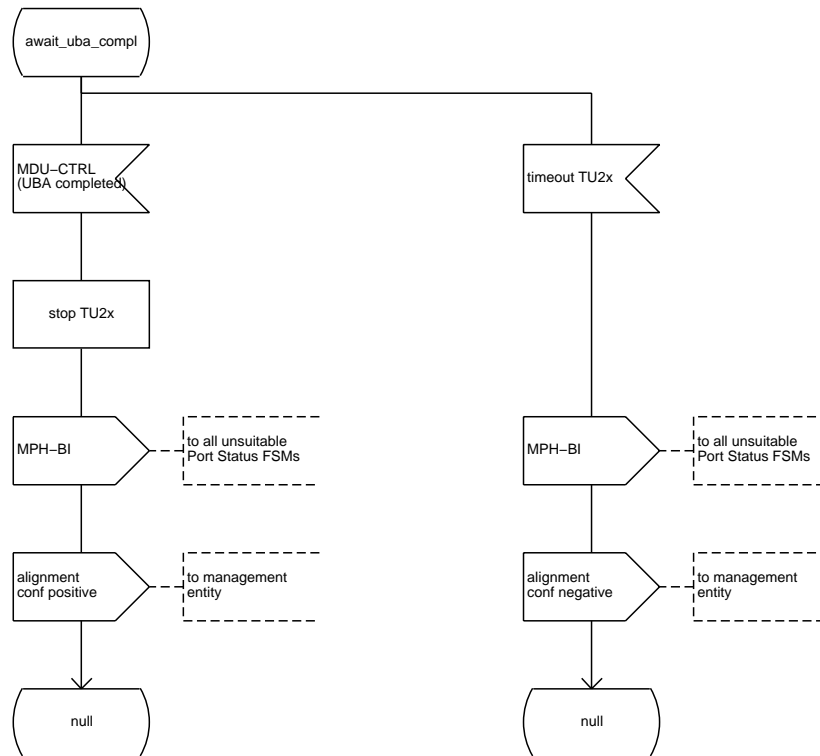
Process Unblock_all_relevant_ports

2(3)

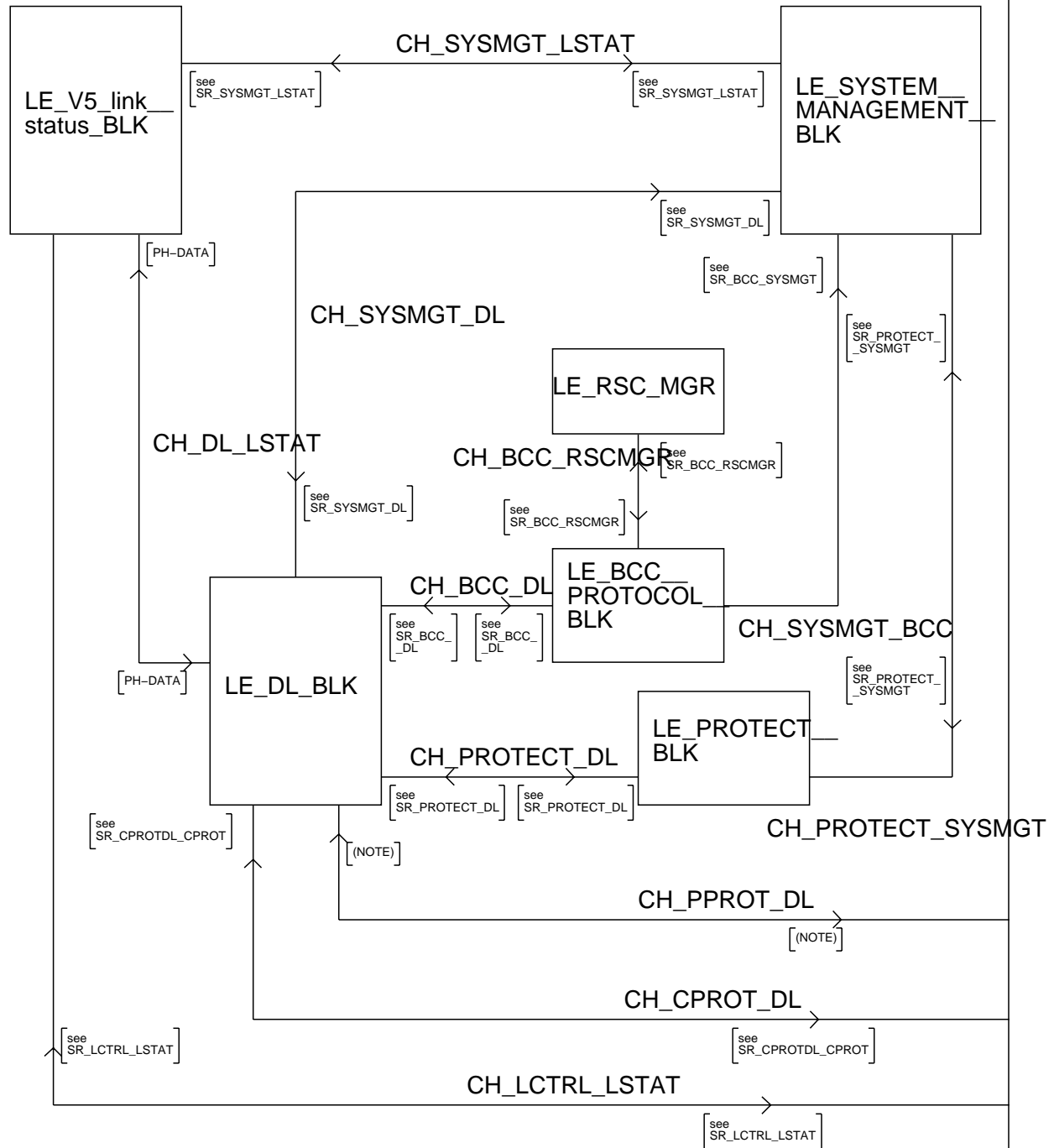


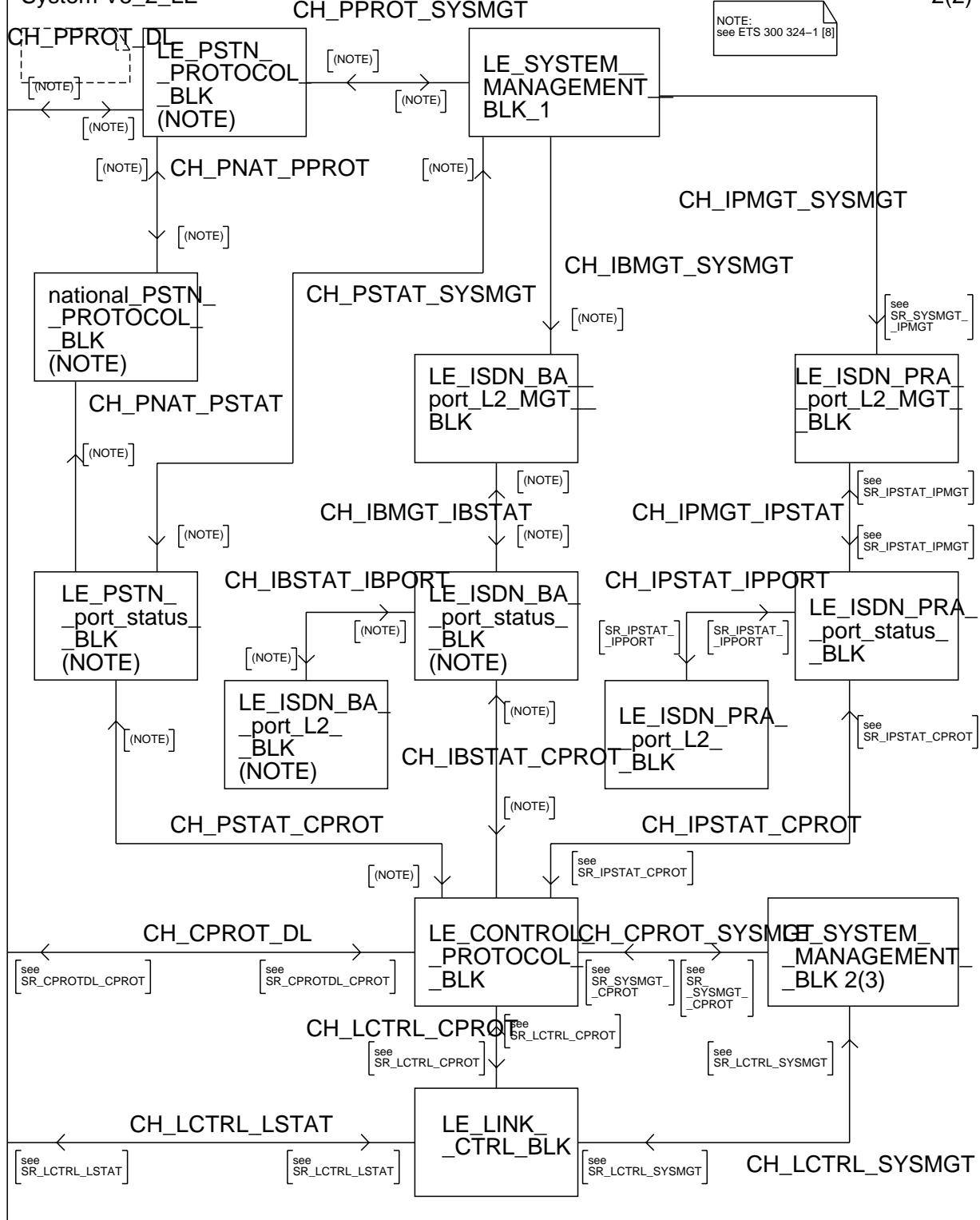
Process Unblock_all_relevant_ports

3(3)

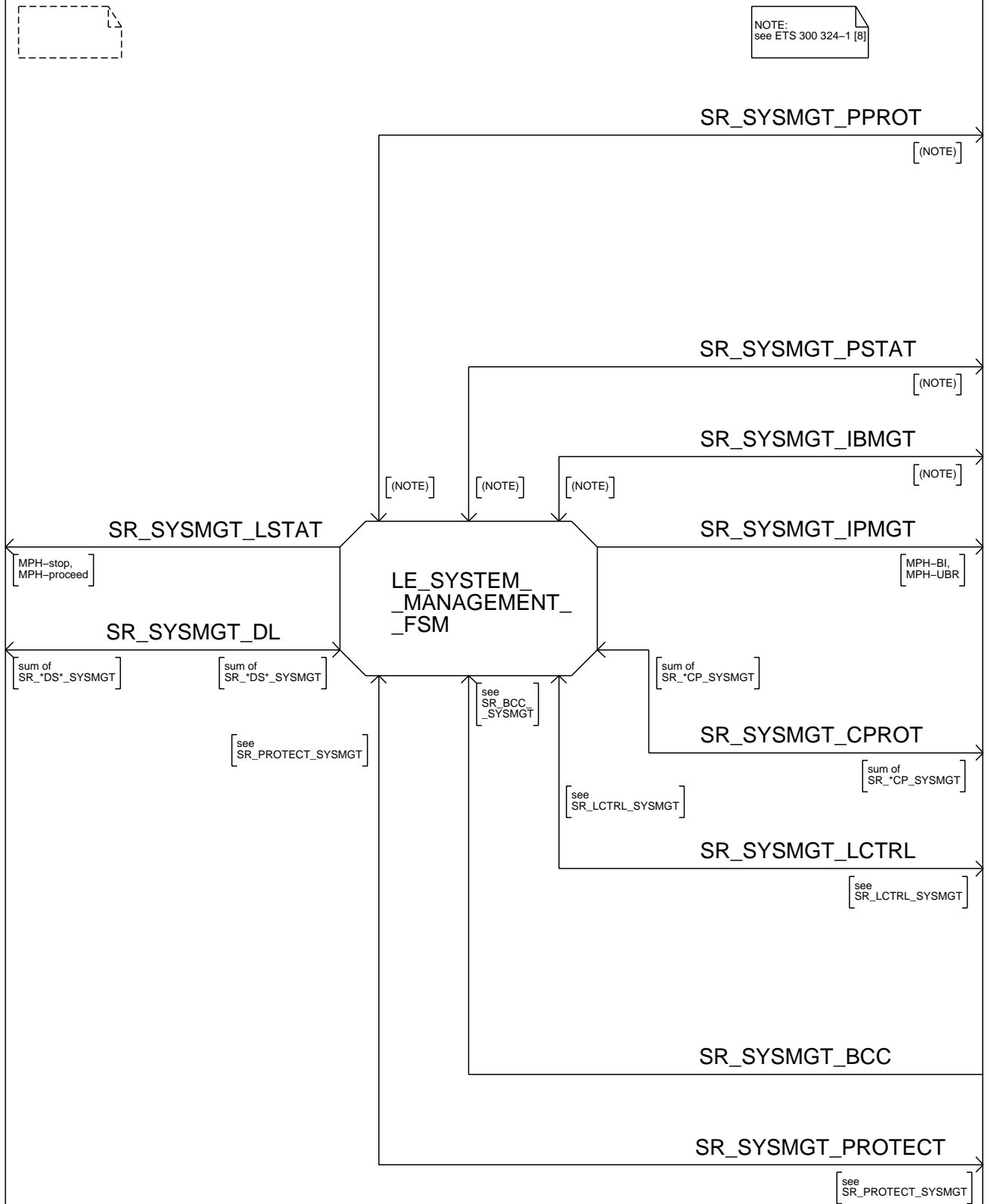


NOTE:
see ETS 300 324-1 [8]



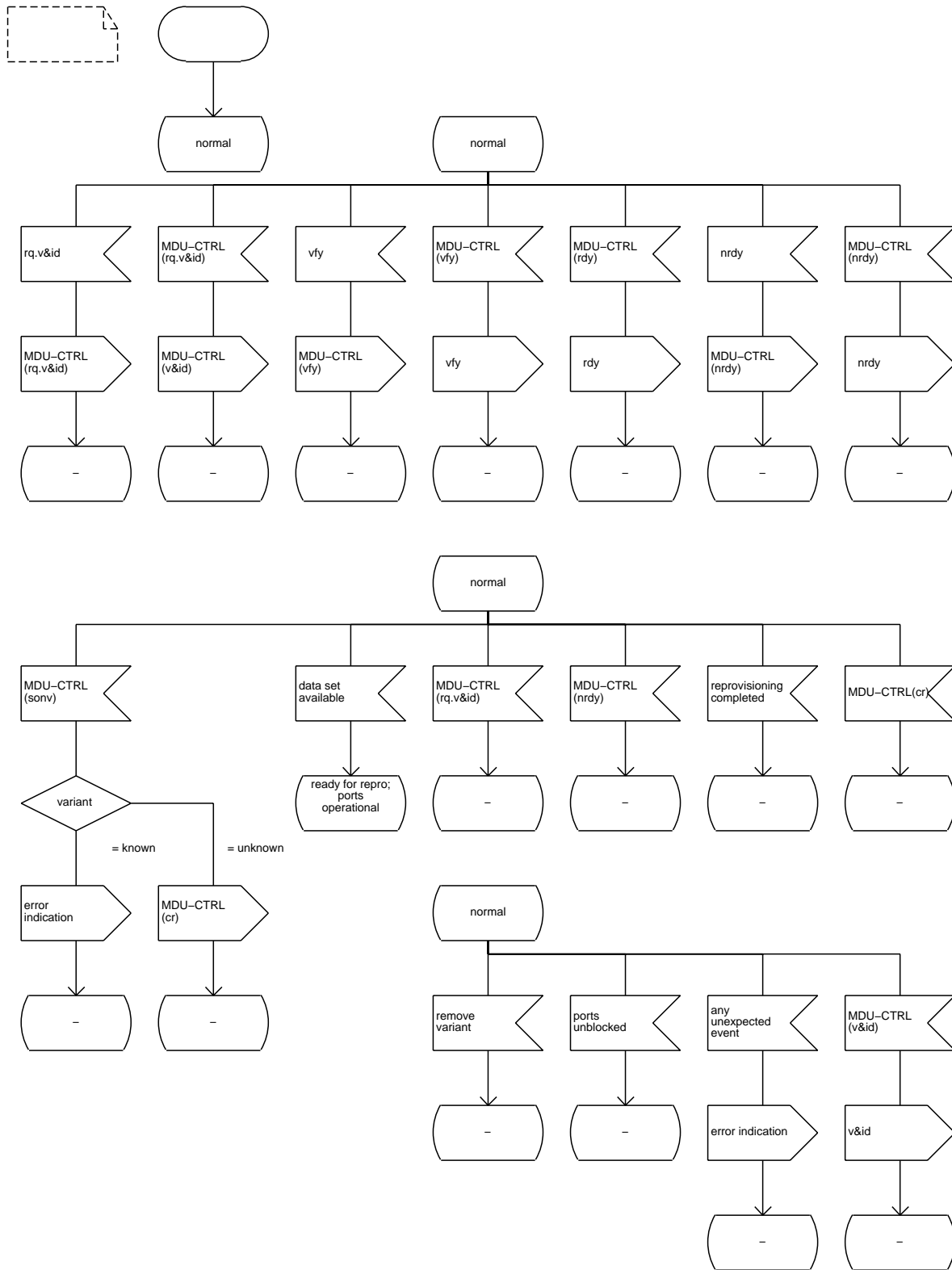


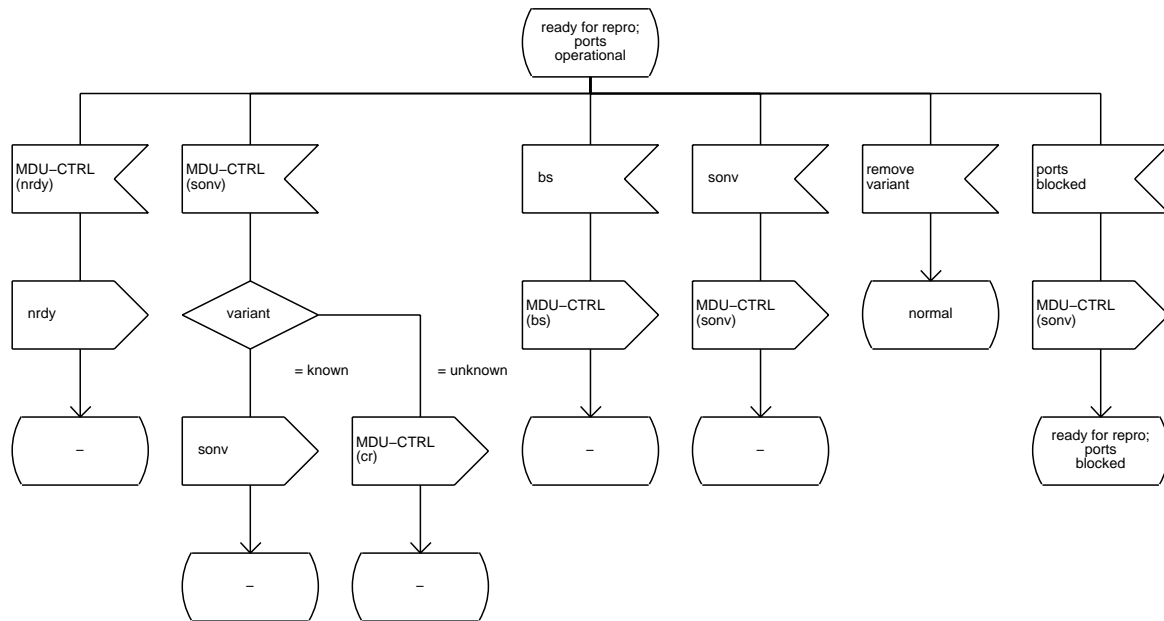
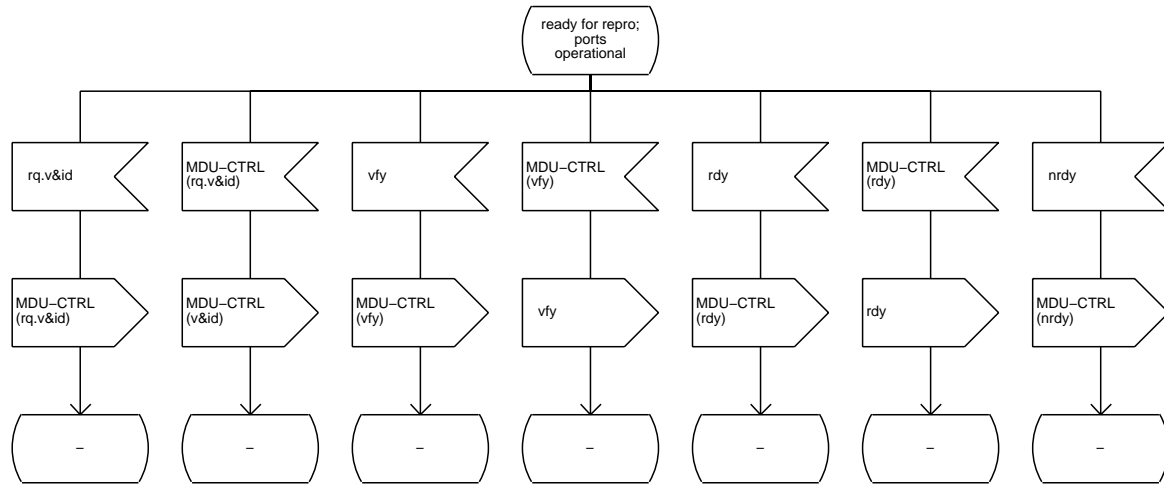
NOTE:
see ETS 300 324-1 [8]

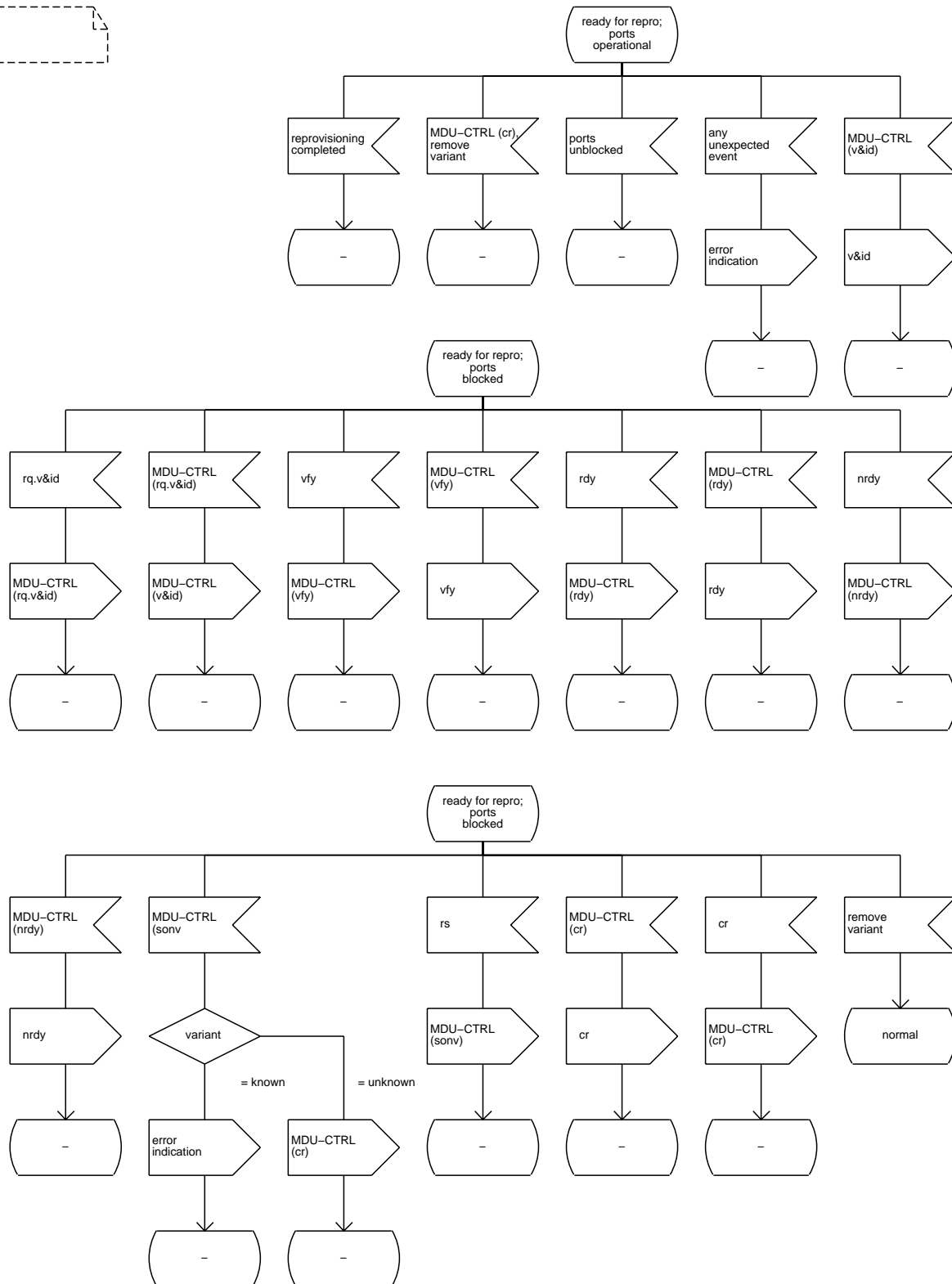


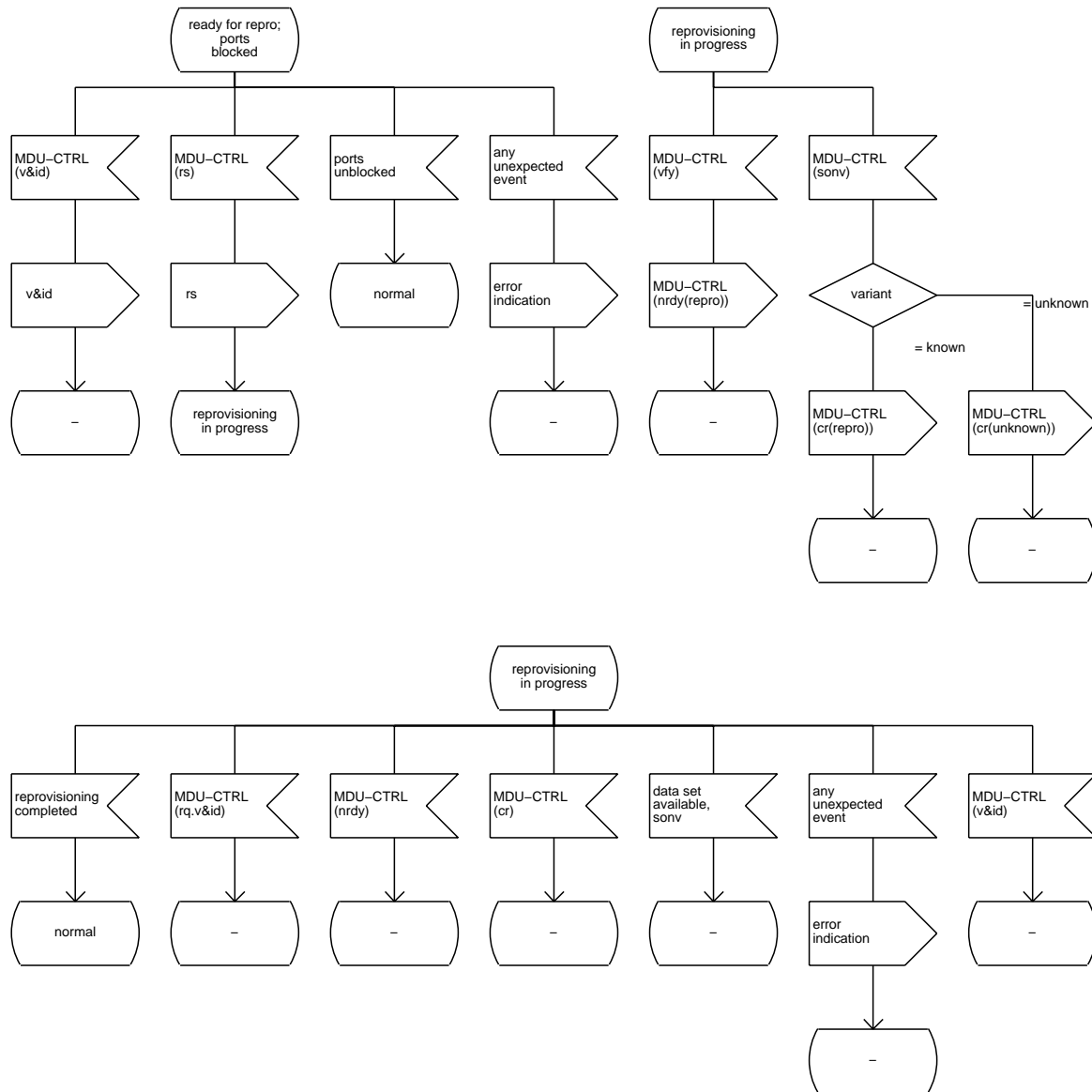
Process LEREPRO

1(4)





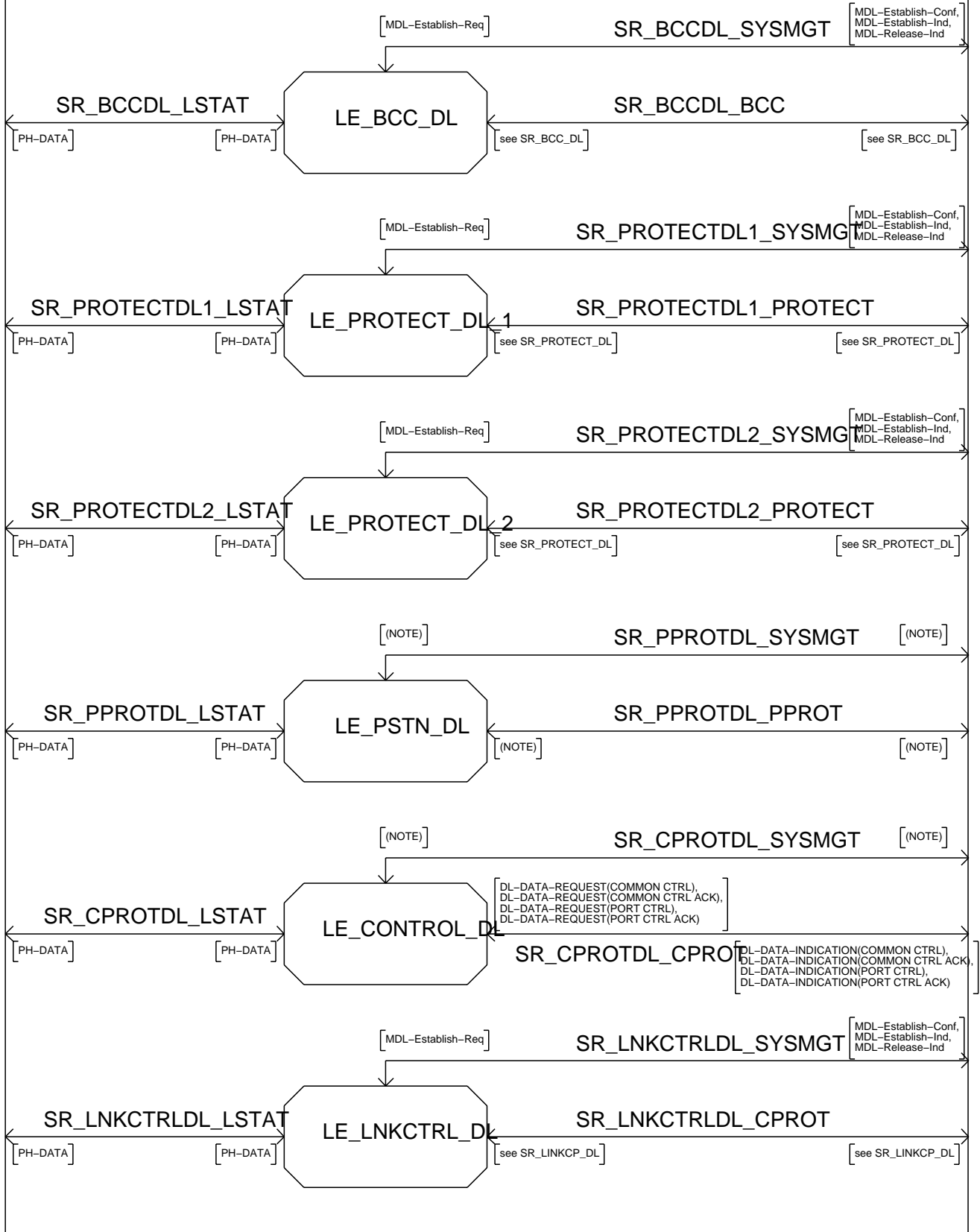


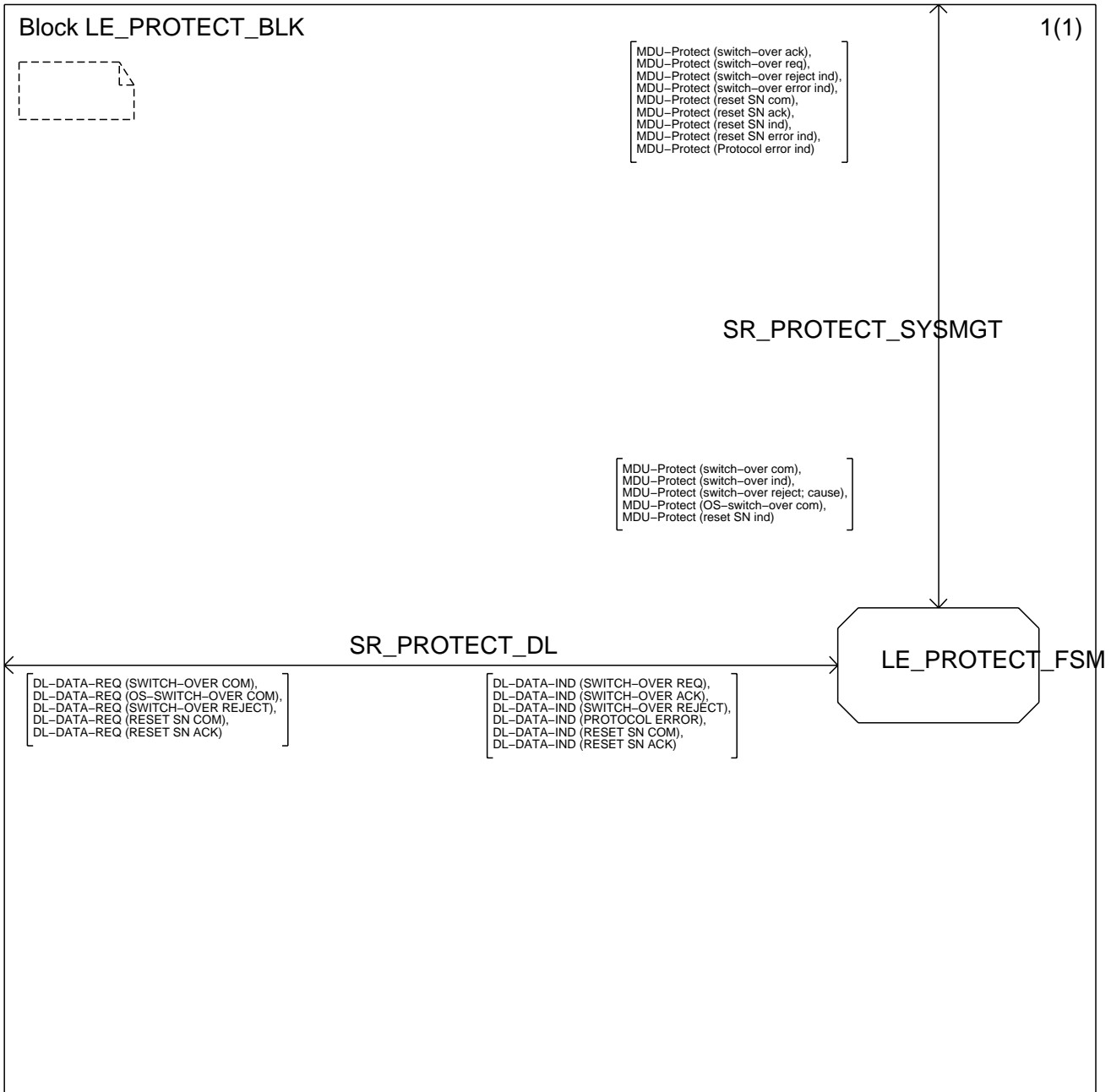


Block LE_DL_BLK

1(1)

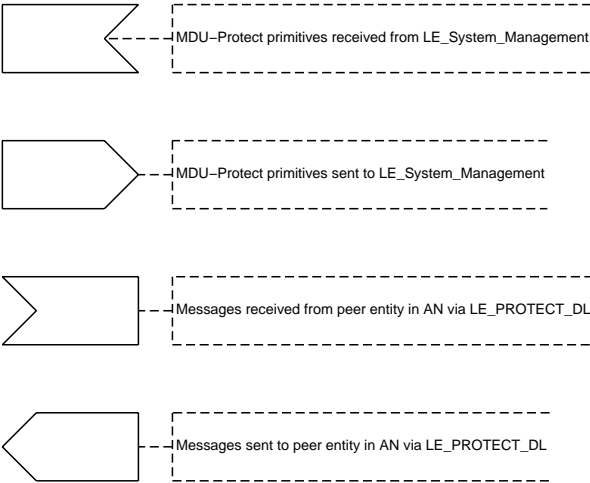
NOTE:
see ETS 300 324-1 [8]





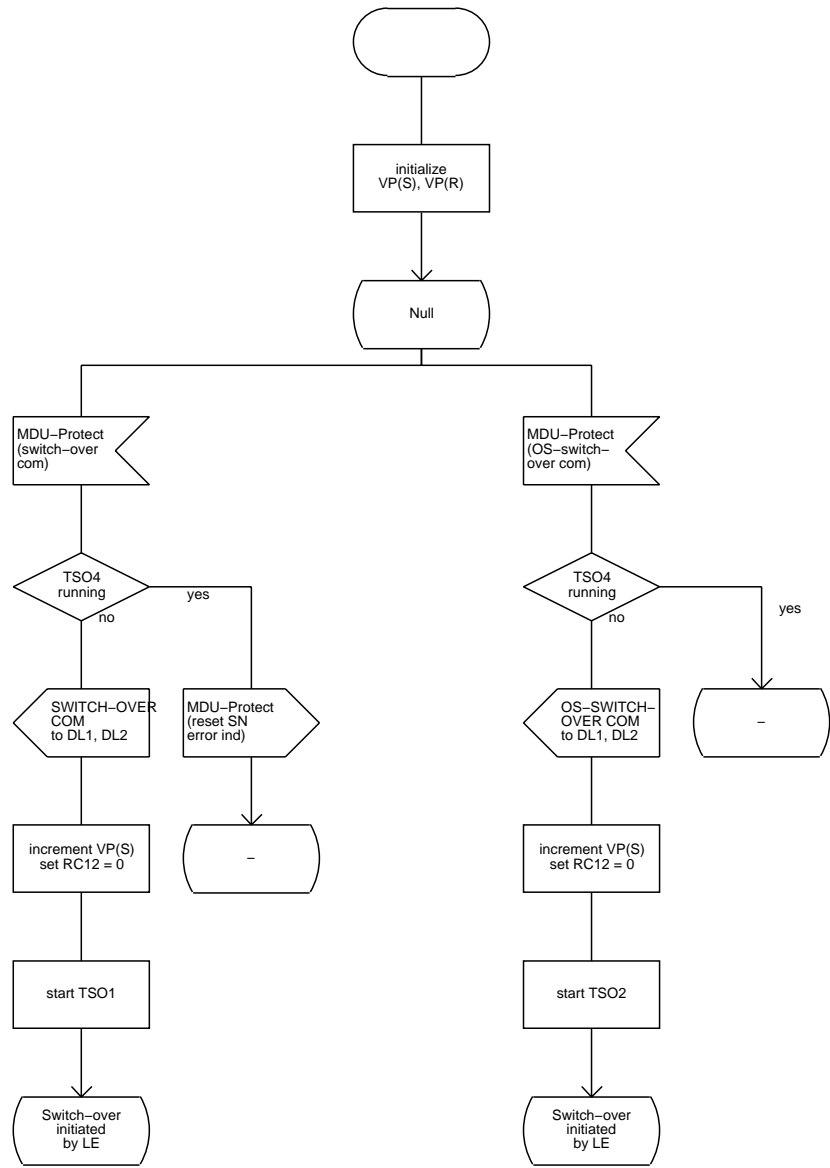


LE_PROTECT_FSM
message direction description



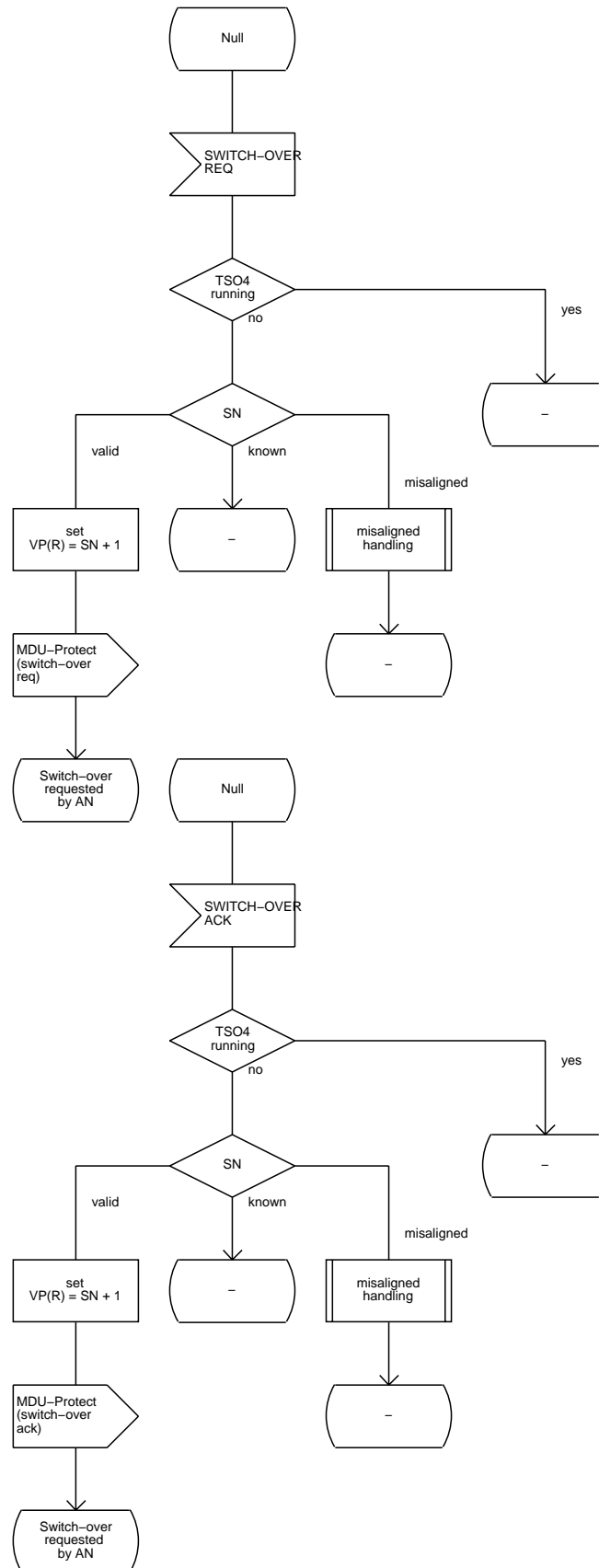


State
SOLE0 (Protection protocol)



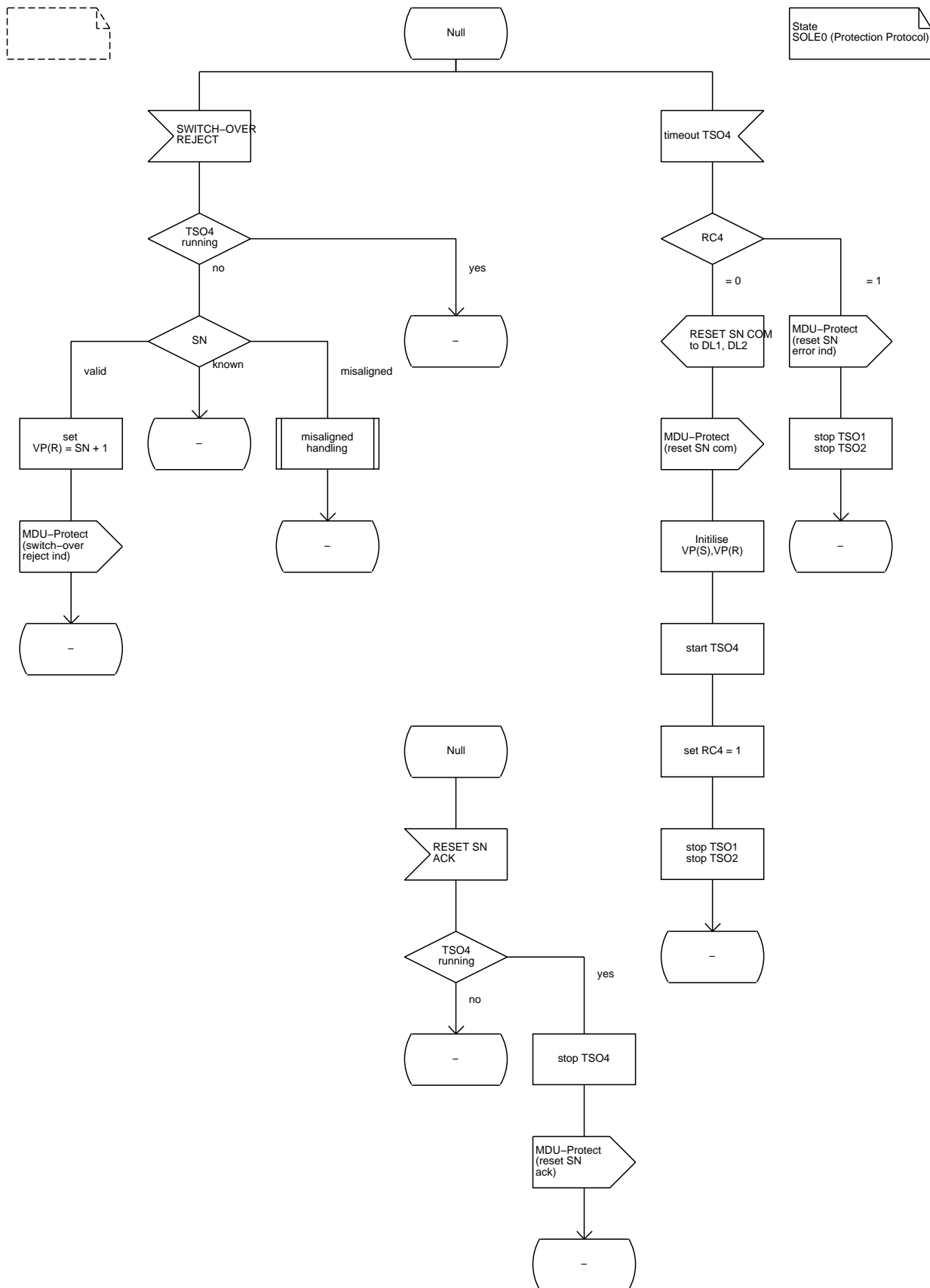


State
SOLE0 (Protection protocol)



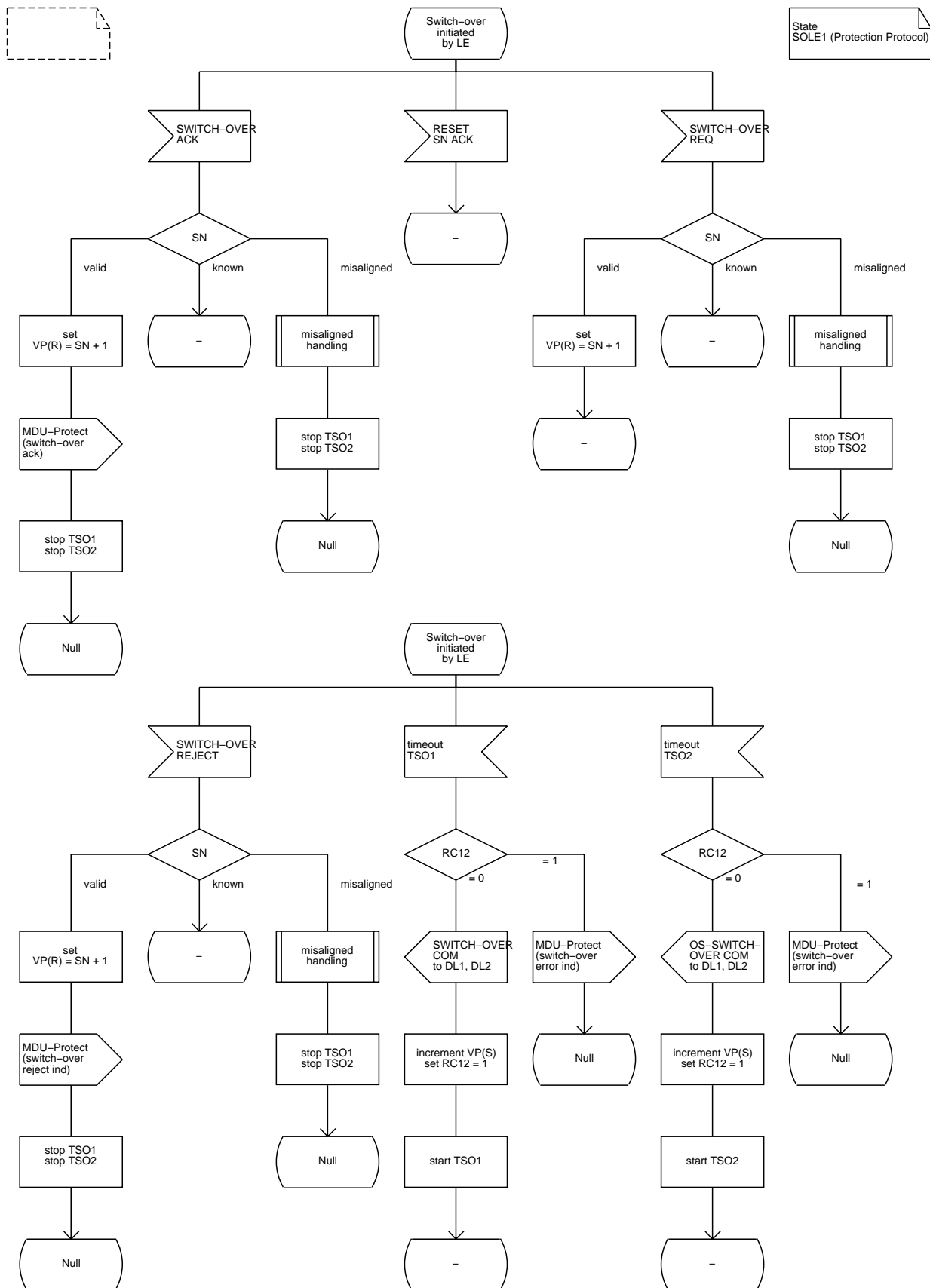
Process LE_PROTECT_FSM

4(8)



Process LE_PROTECT_FSM

5(8)

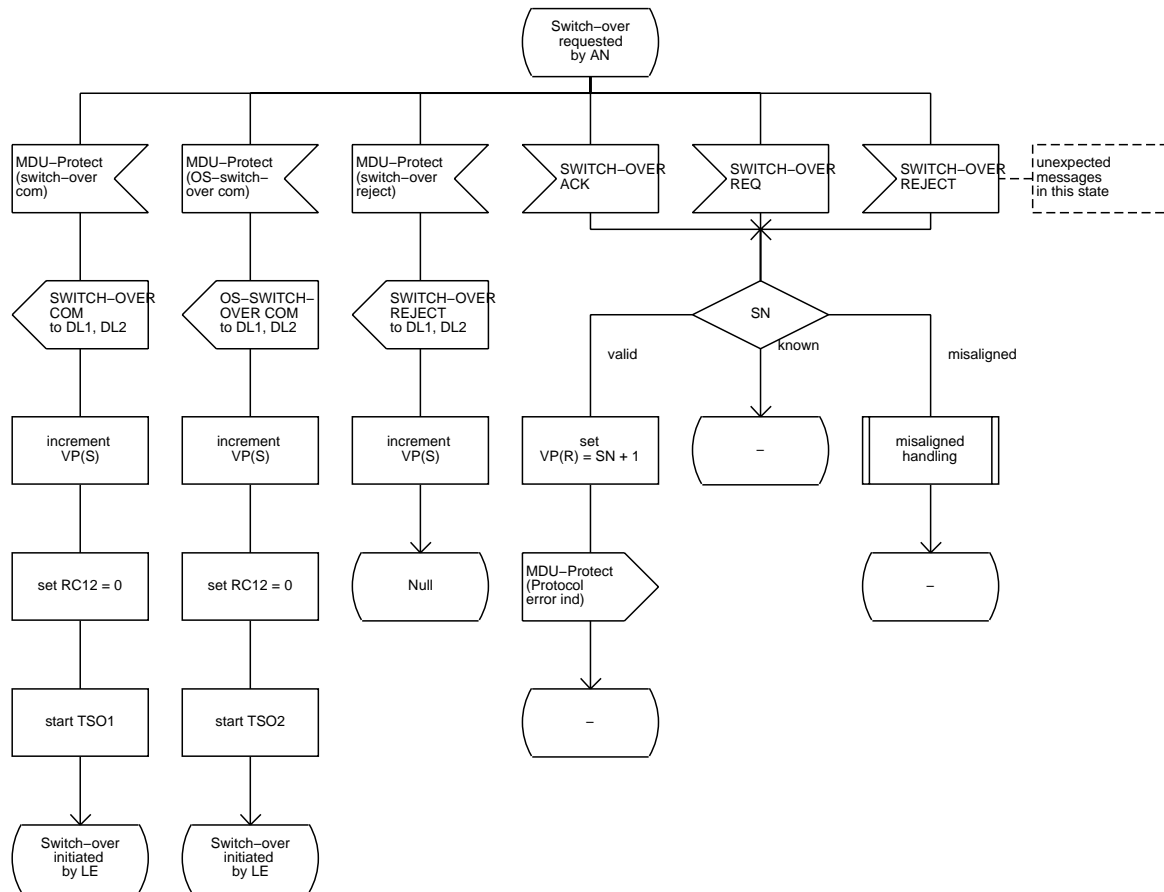


Process LE_PROTECT_FSM

6(8)

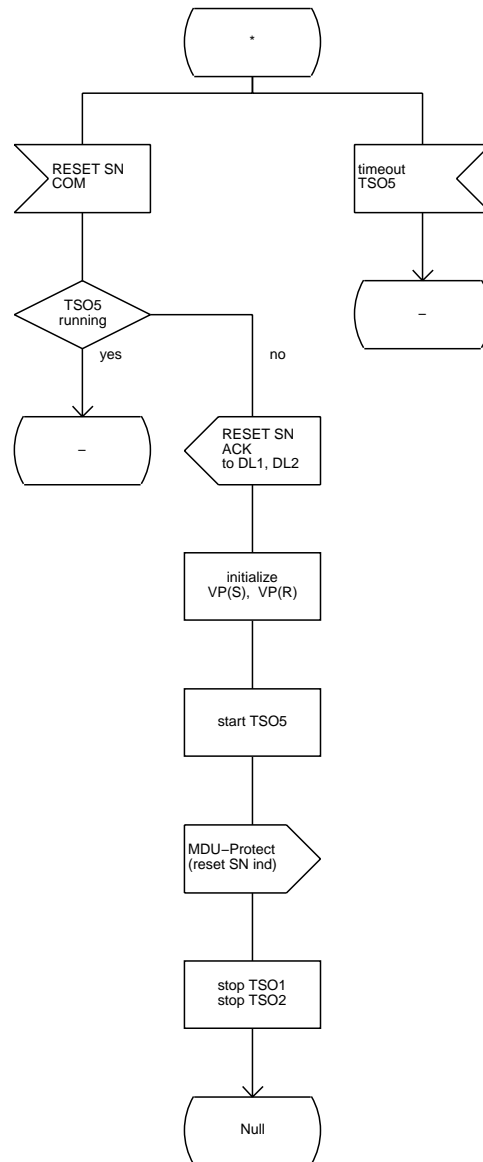


State
SOLE2 (Protection Protocol)



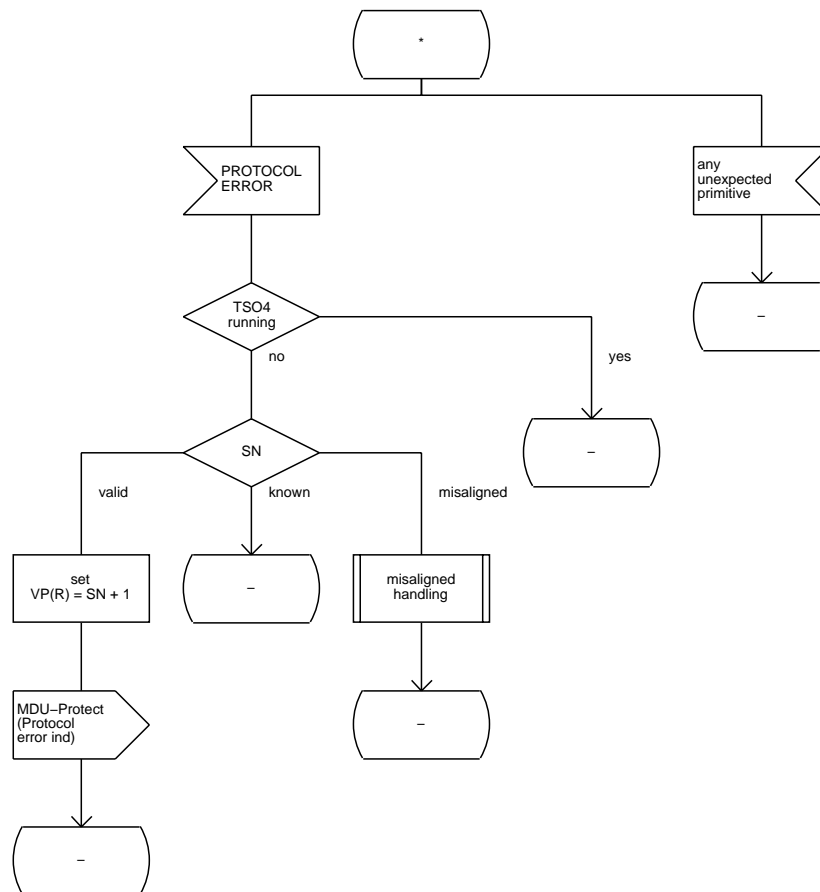


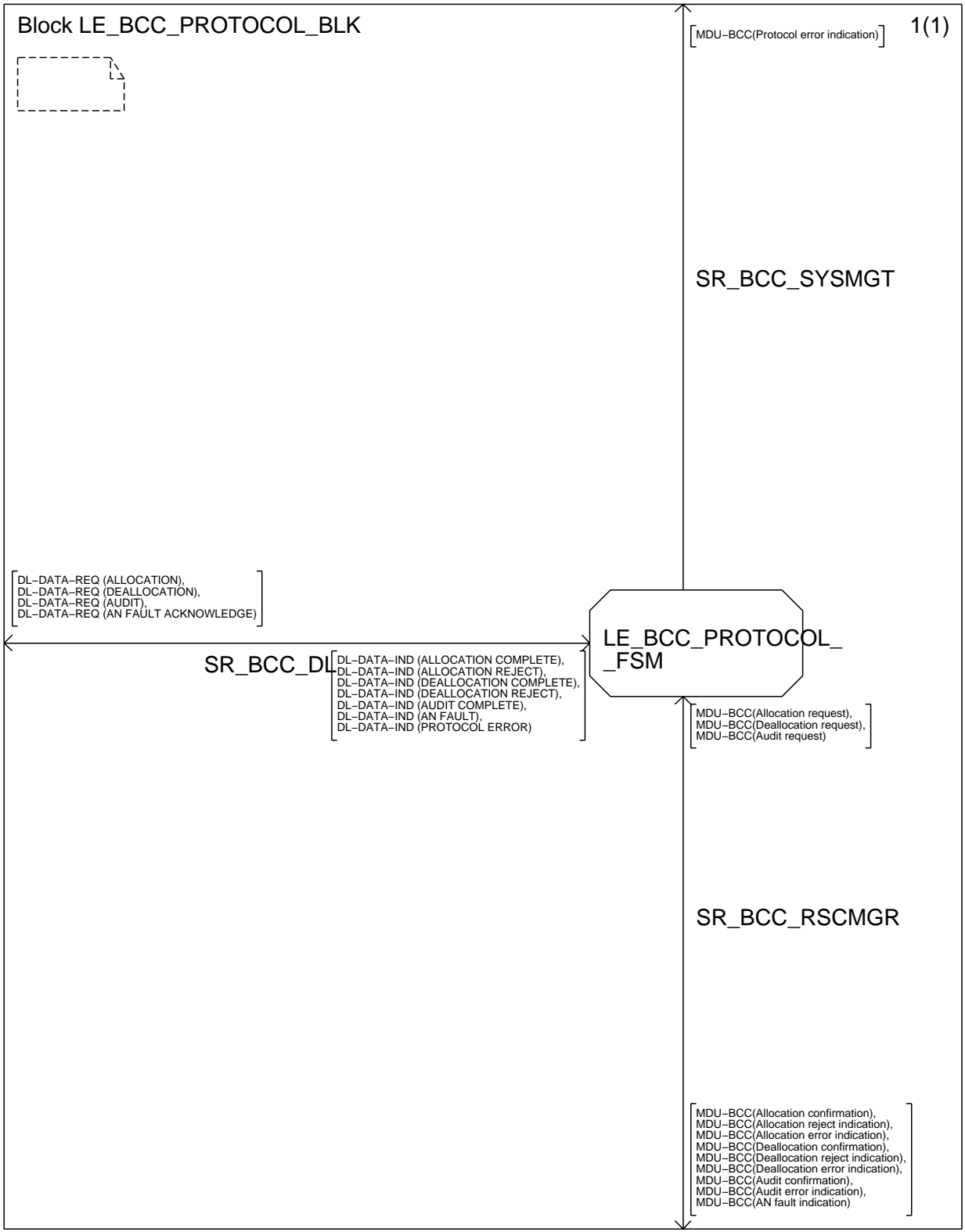
Any State
(Protection Protocol)





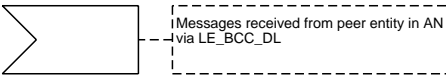
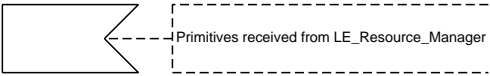
Any State
(Protection Protocol)





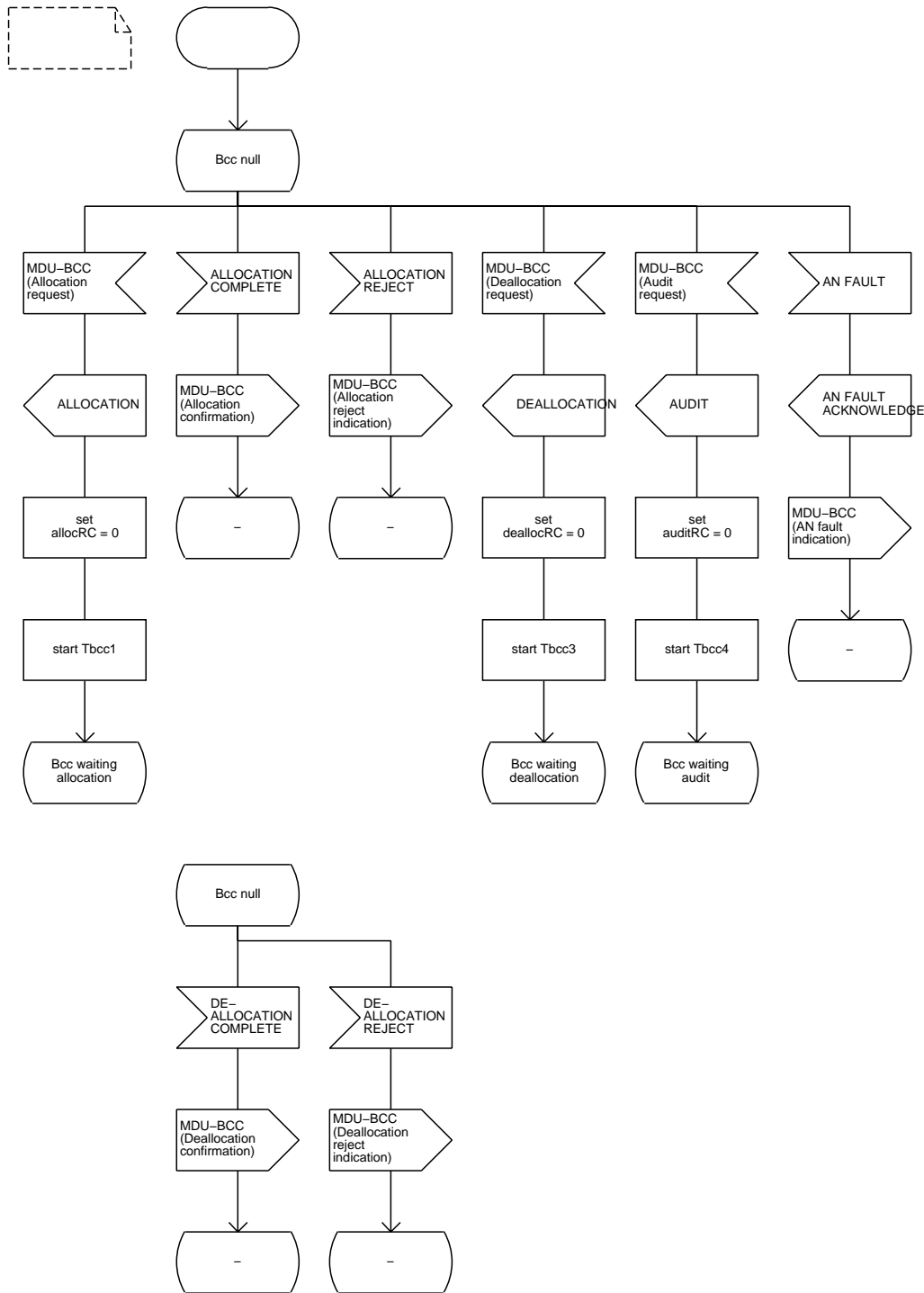


LE_BCC_PROTOCOL_FSM
message direction description



Process LE_BCC_PROTOCOL_FSM

2(6)



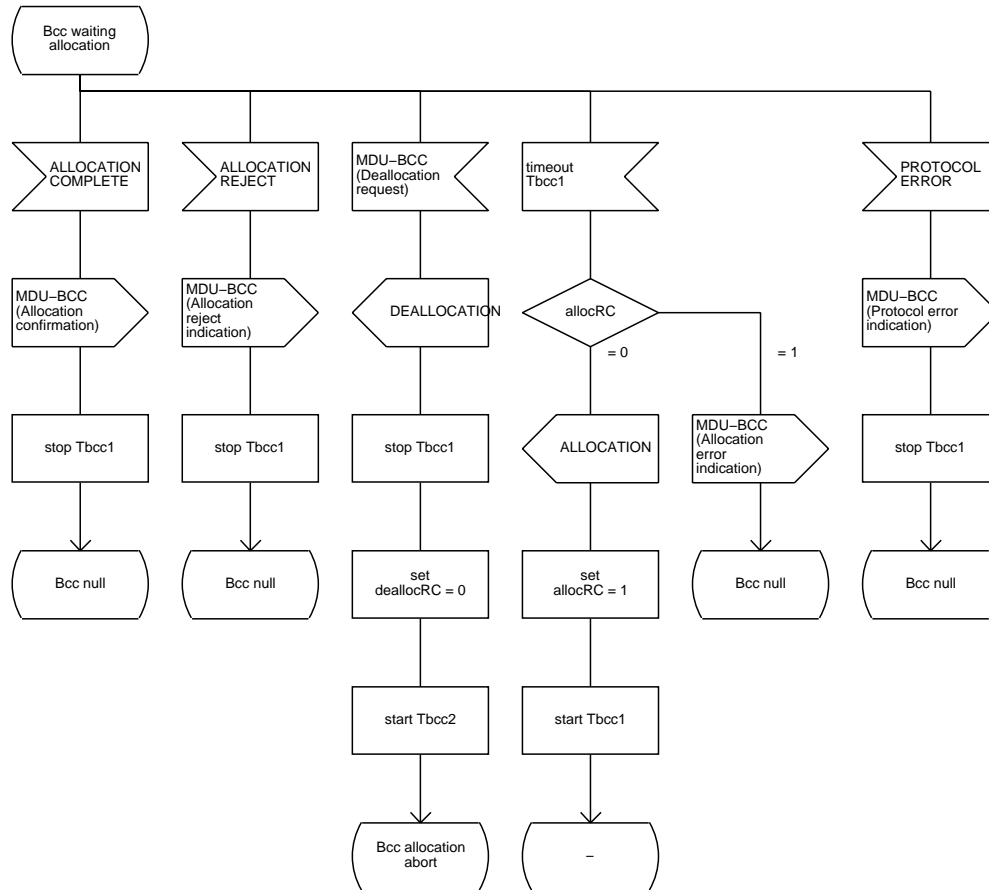
State
LEBcc0 (BCC)

Process LE_BCC_PROTOCOL_FSM

3(6)

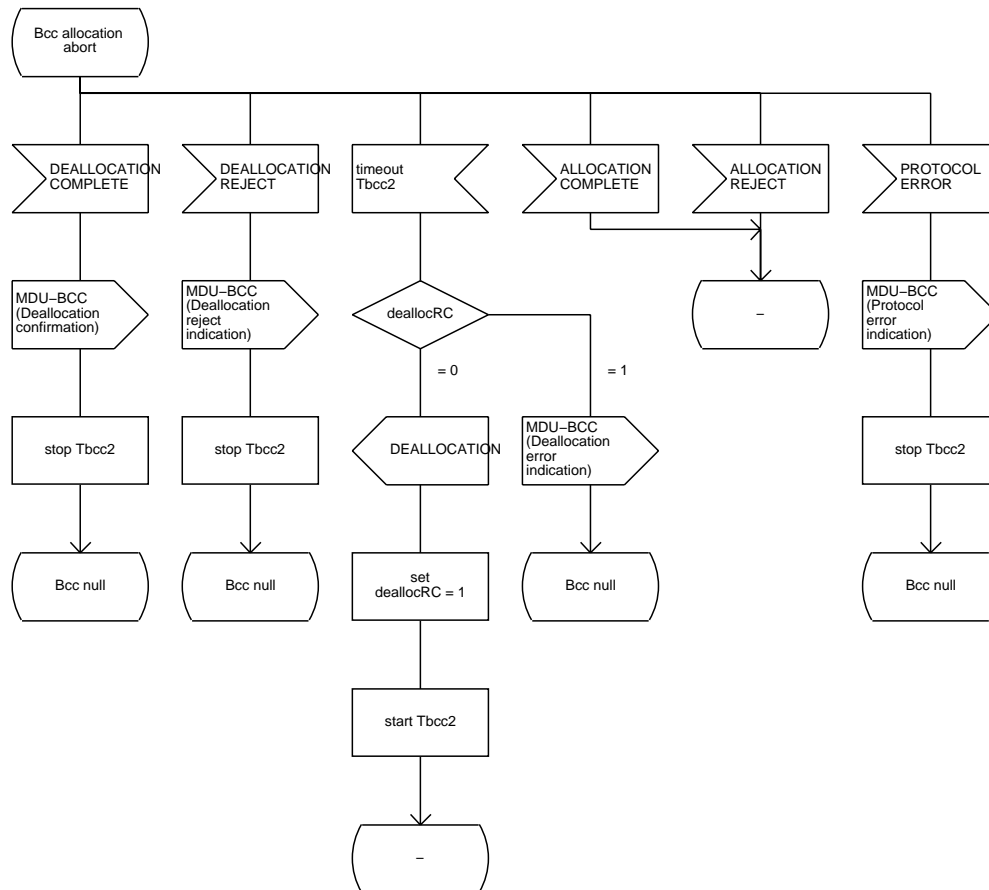


State
LEBcc1 (BCC)

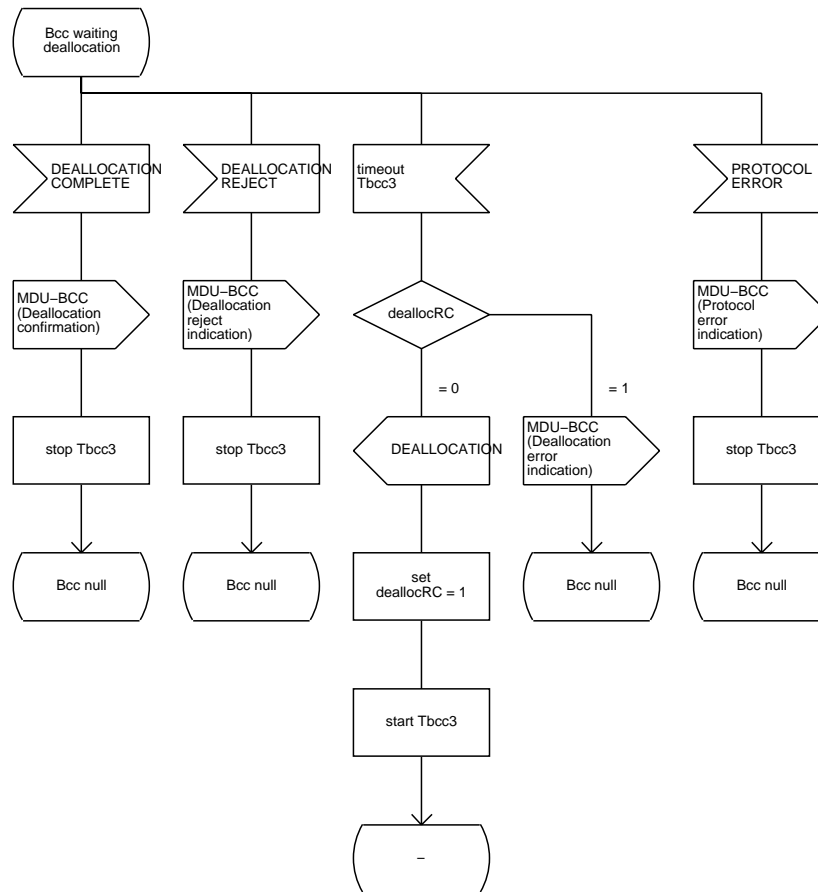




State
LEBcc2 (BCC)

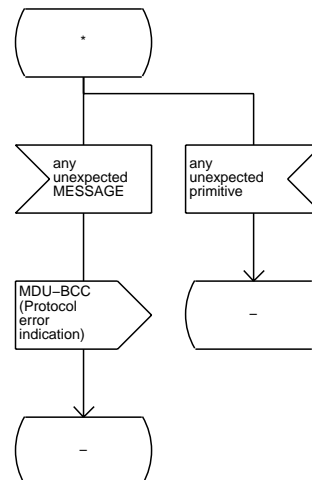
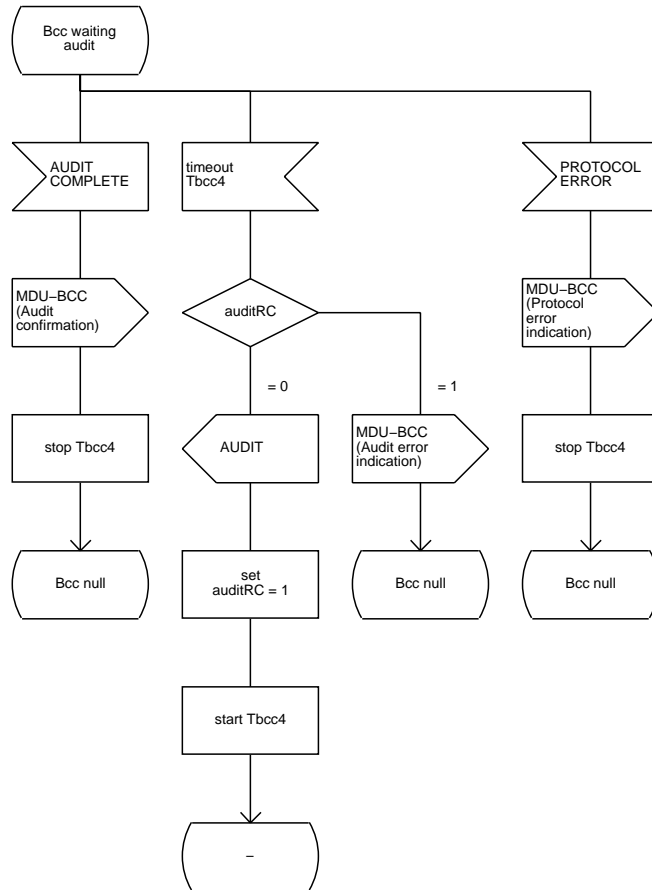


State
LEBcc3 (BCC)

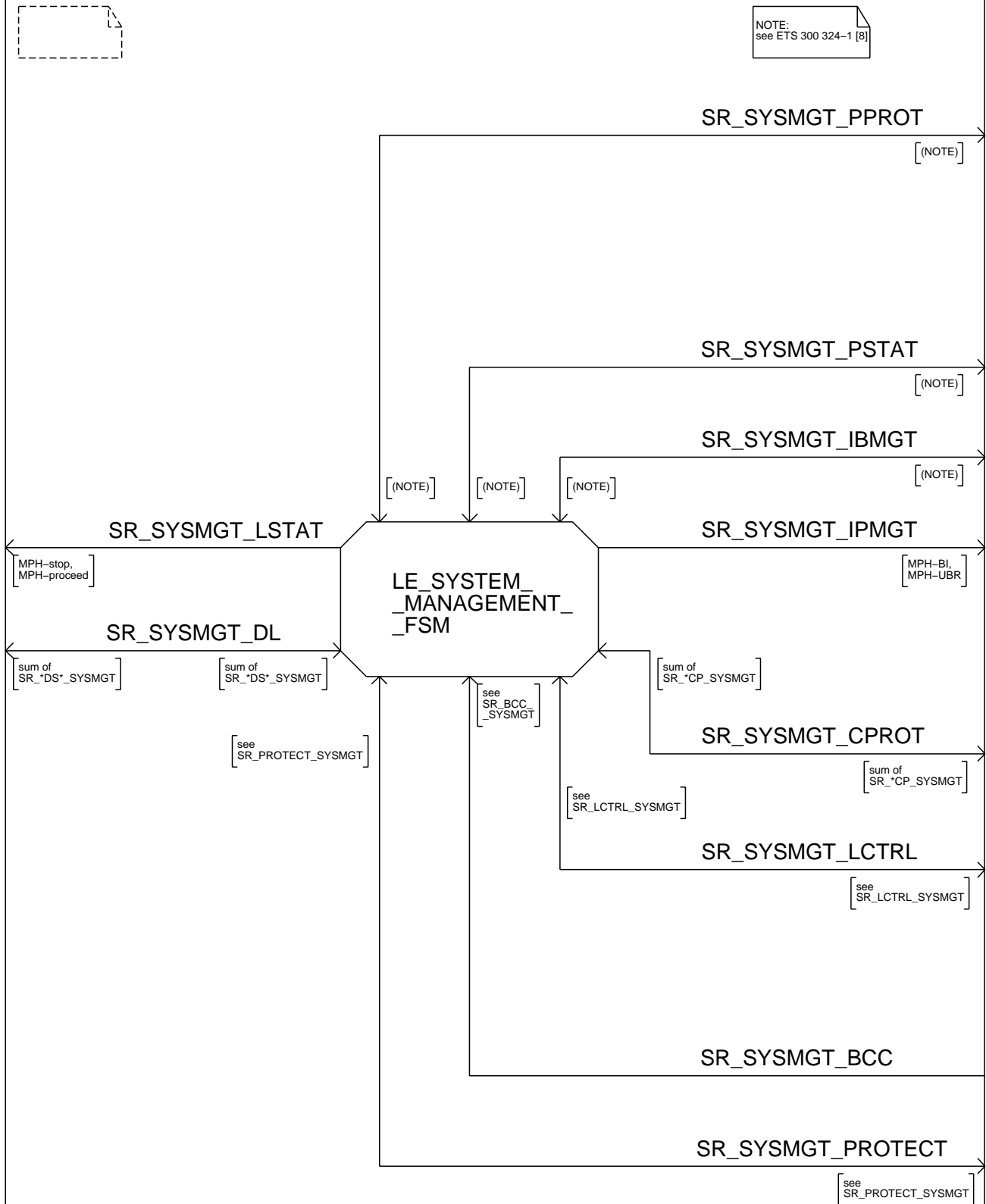




State
LEBcc4 (BCC)

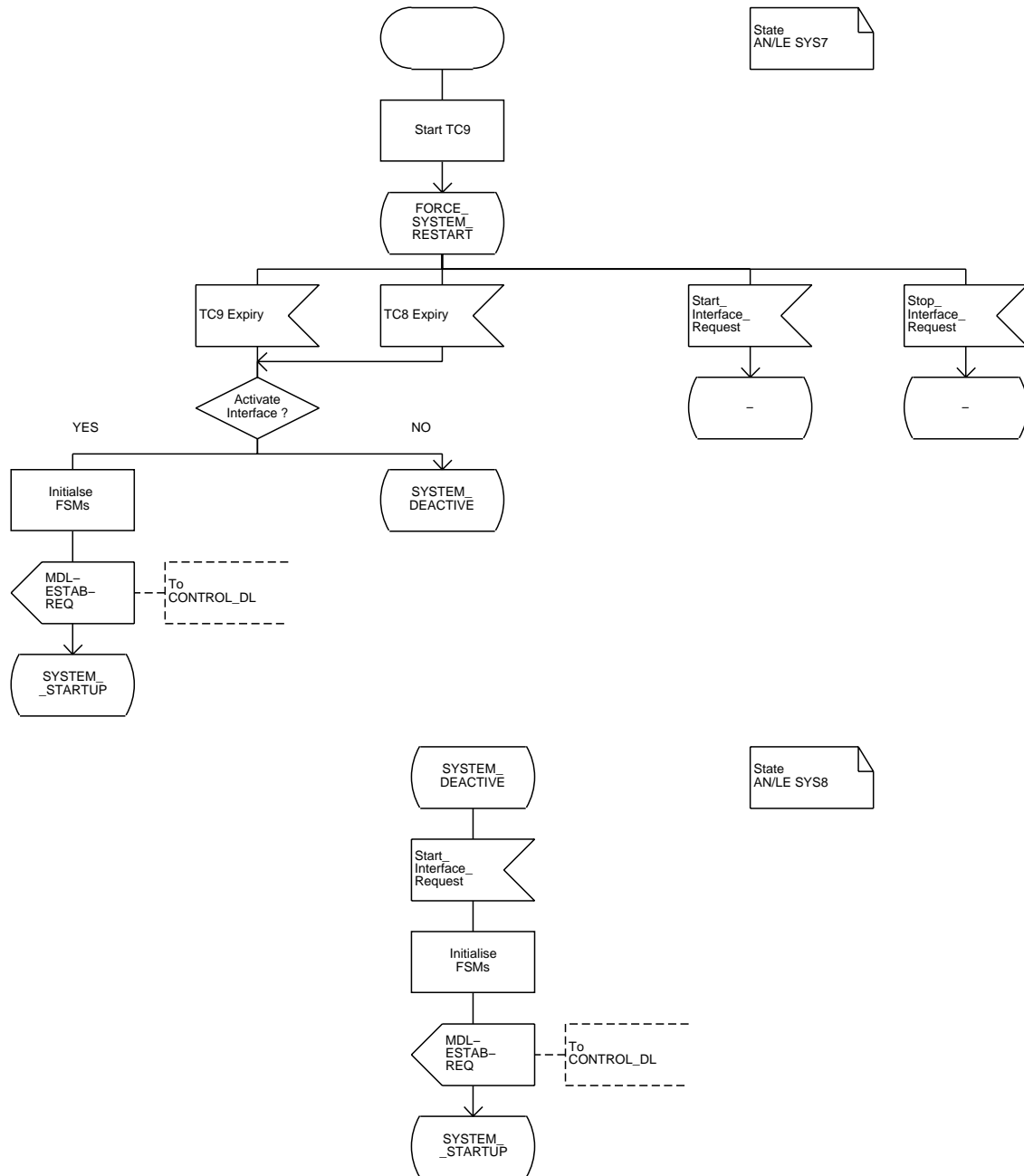


NOTE:
see ETS 300 324-1 [8]



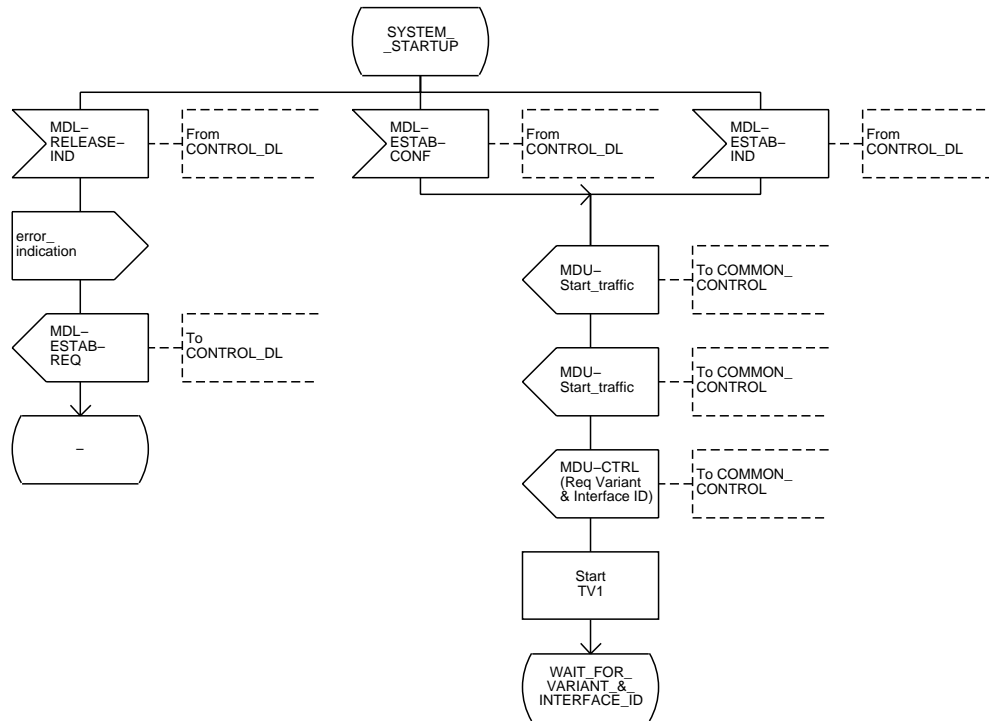
Process LE_SYSTEM_MANAGEMENT

SYS7_8_Force_System_Restart(7)



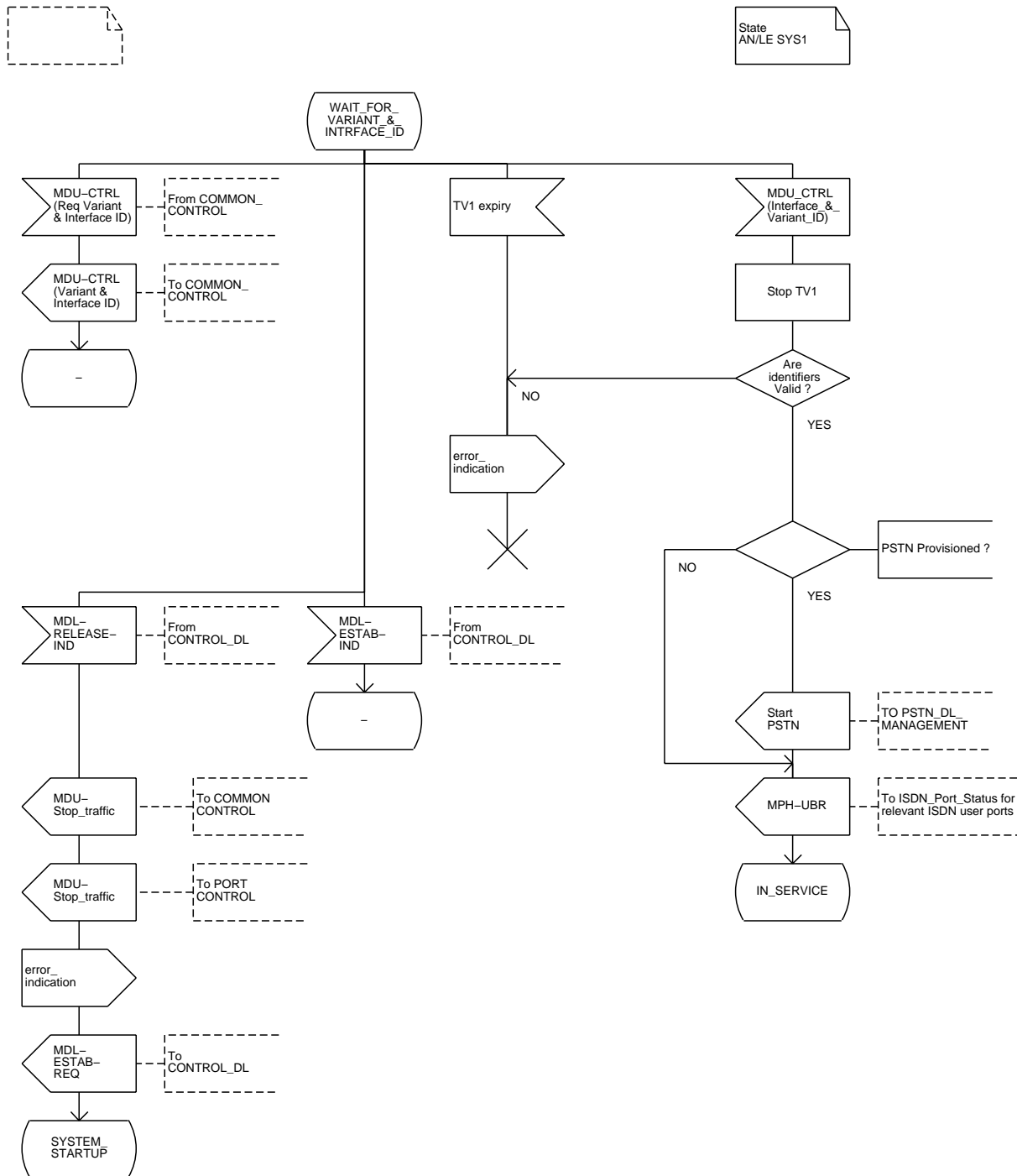


State
AN/LE SYS0



Process LE_SYSTEM_MANAGEMENT

SYS1_Wait_Var_and_if_ID(7)

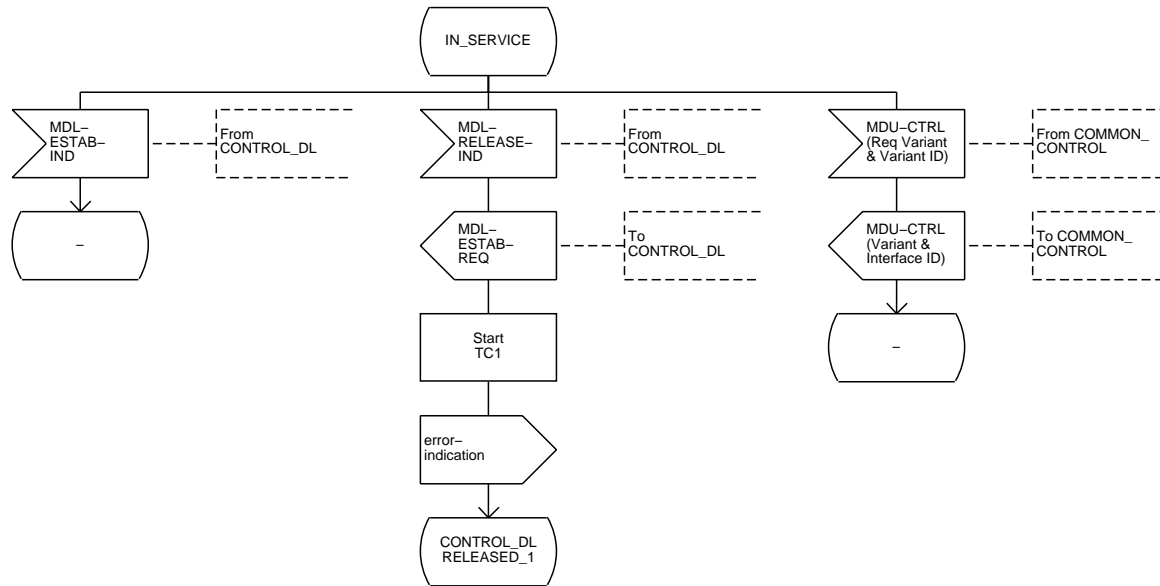


Process LE_SYSTEM_MANAGEMENT

SYS2_In_Service(7)

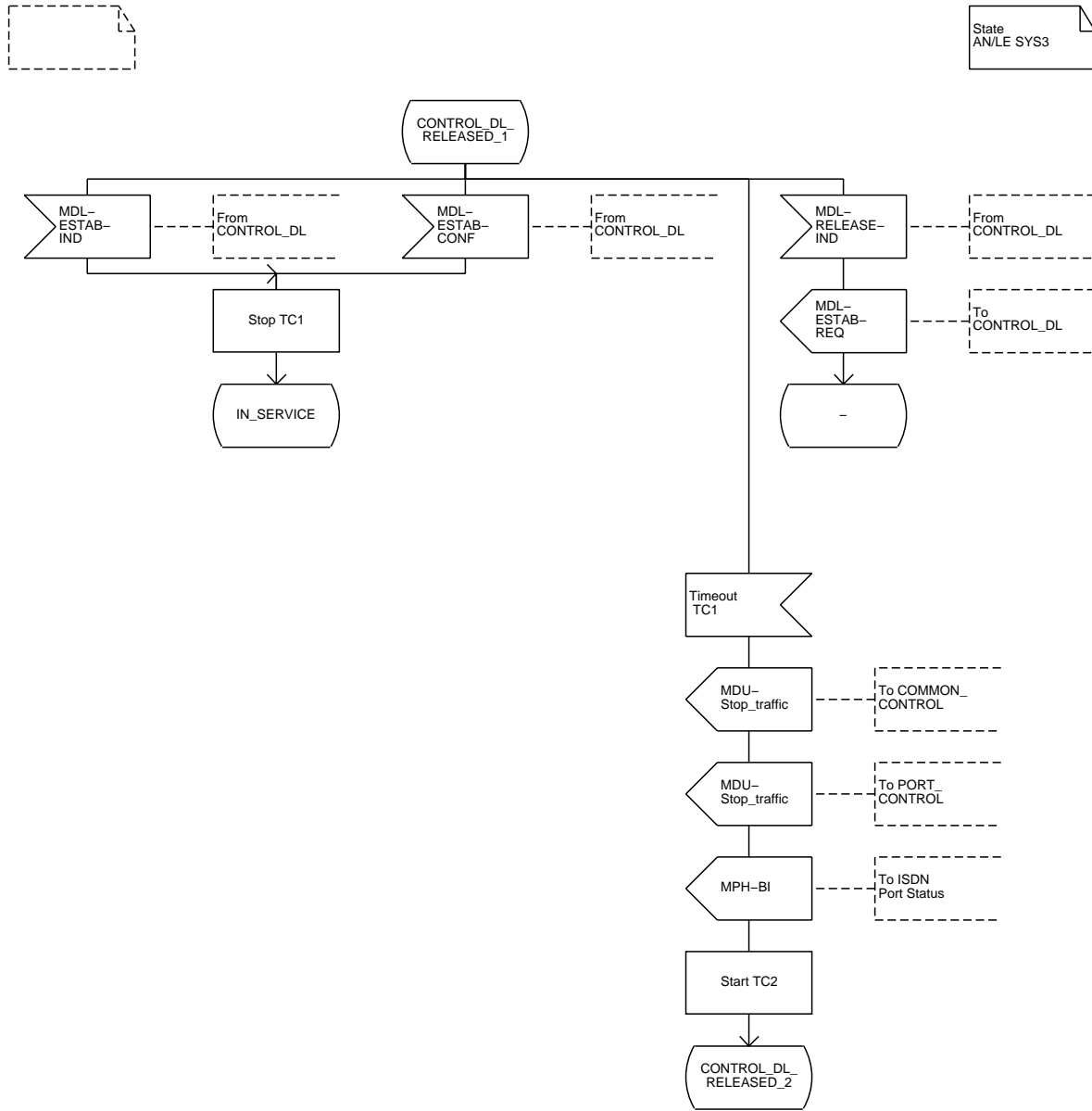


State
AN/LE SYS2



Process LE_SYSTEM_MANAGEMENT

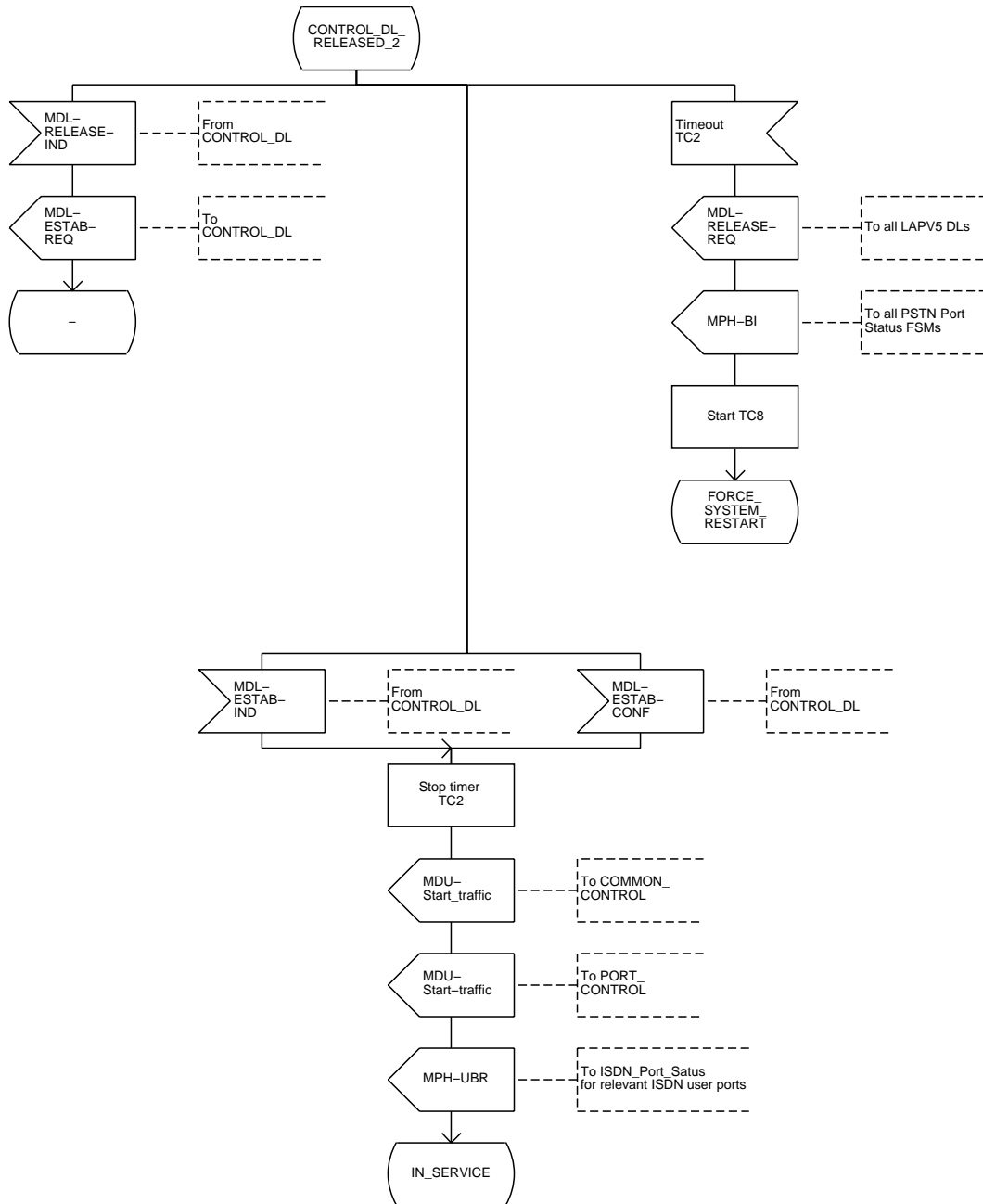
SYS3_Control_DL_Released1(7)



Process LE_SYSTEM_MANAGEMENT

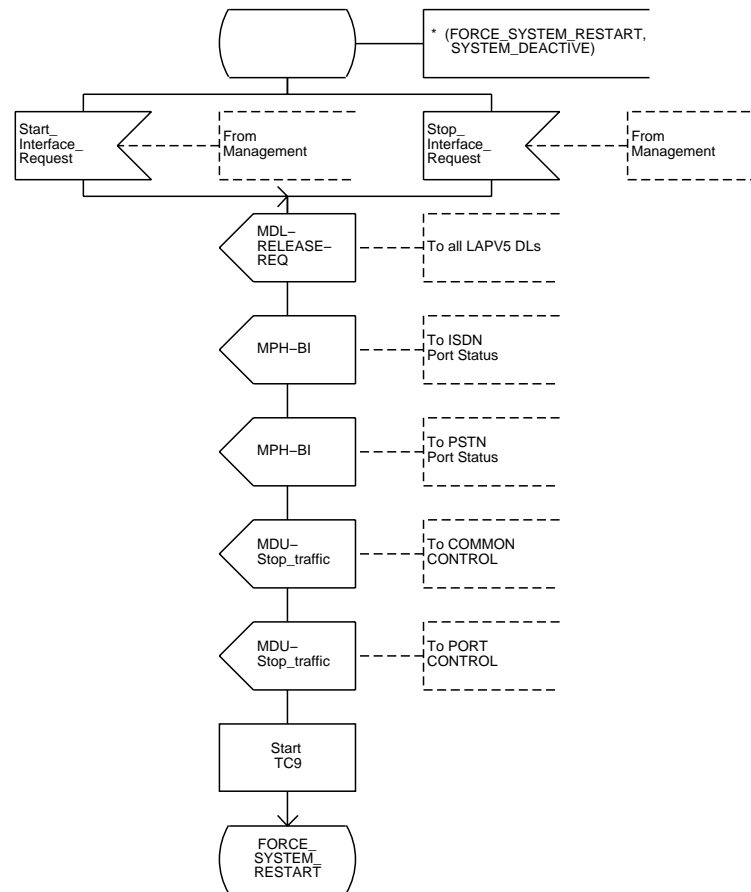
SYS4_Control_DL_Released2(7)

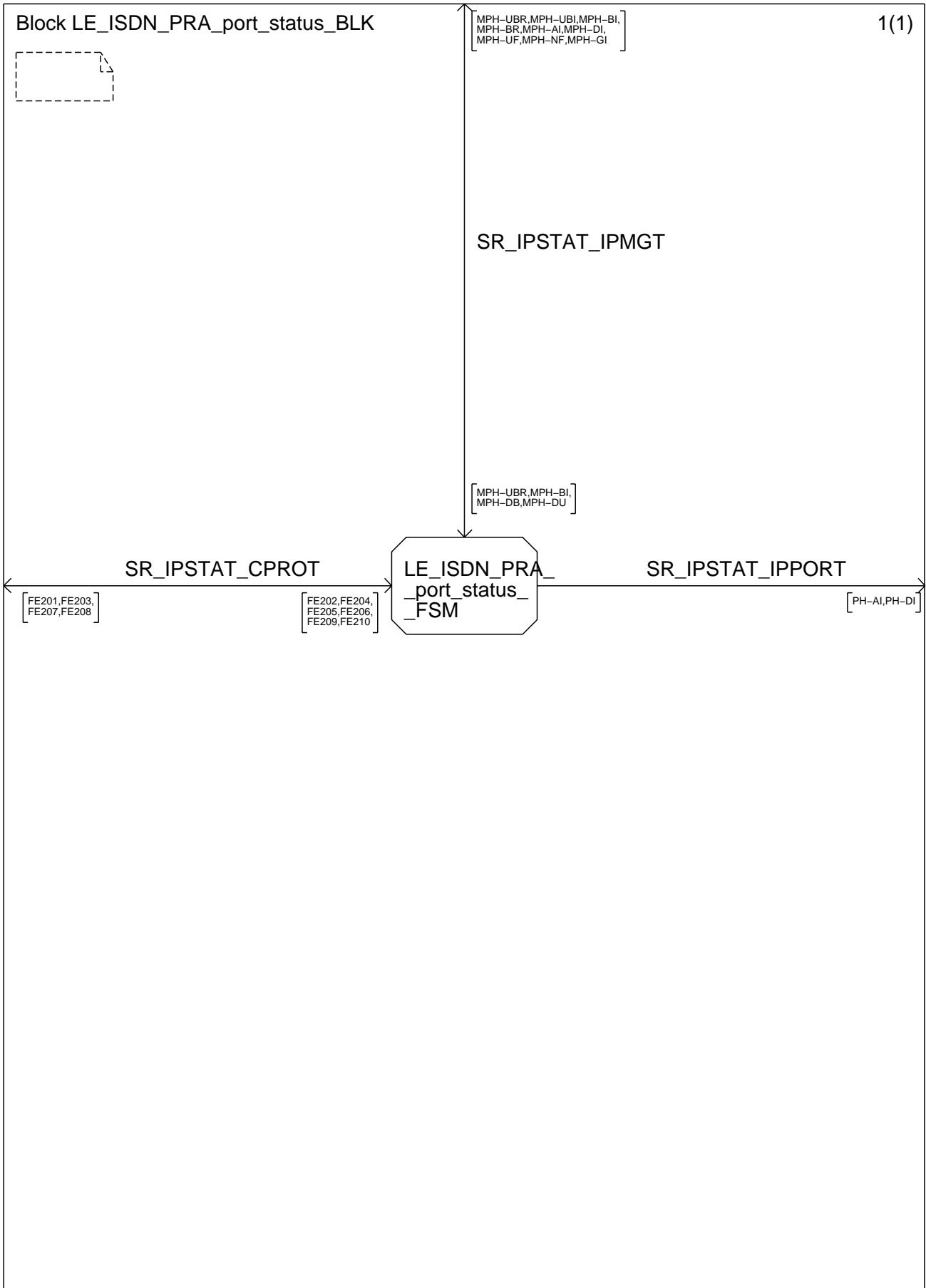
State
AN/LE SYS4



Process LE_SYSTEM_MANAGEMENT	SYS_Any_State(7)
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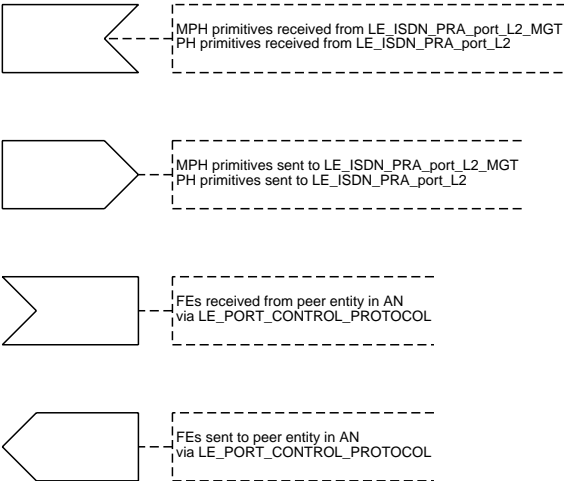
SYS_Any_State(7)





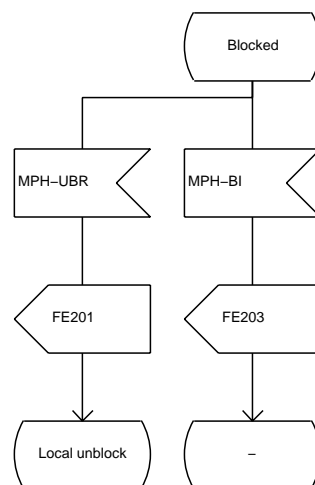
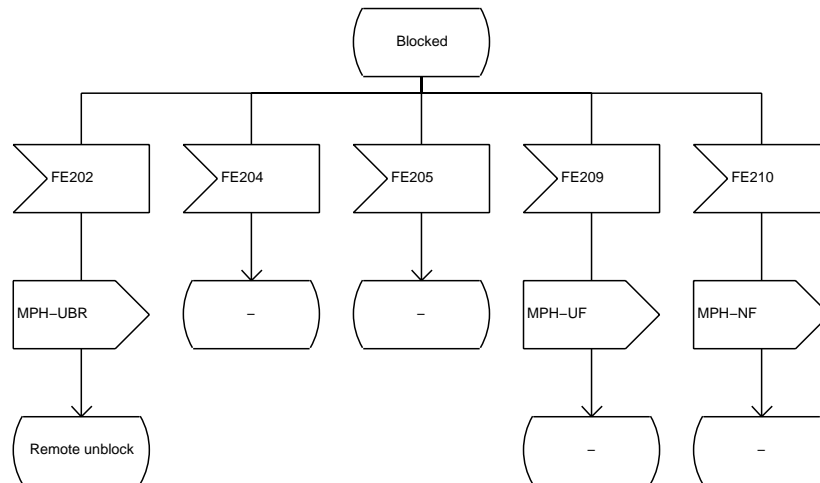


LE_ISDN_PRA_port_status_FSM
message direction description



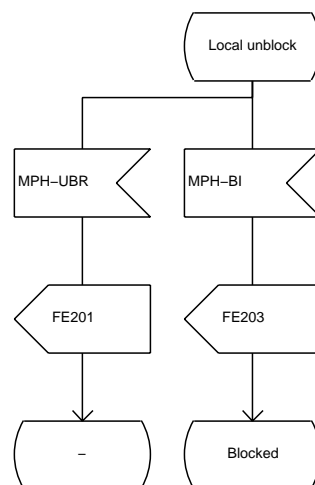
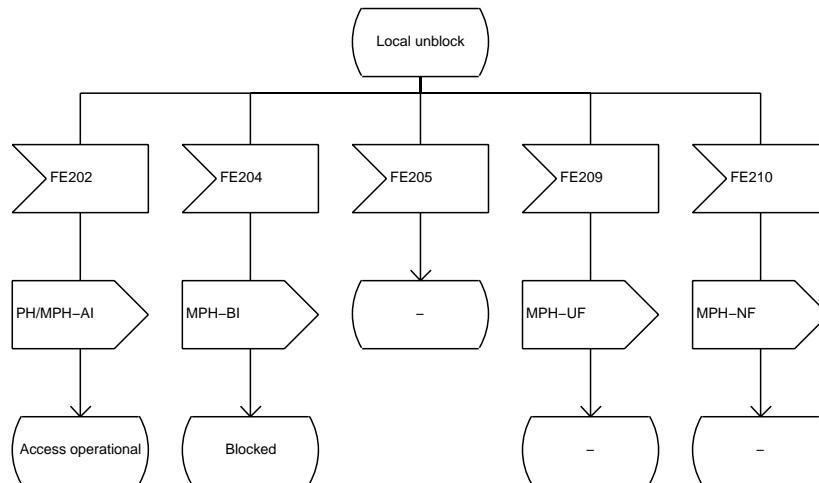


State
LE1.0 (ISDN PRA port)



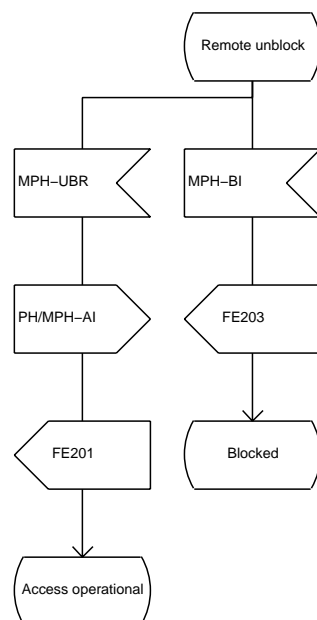
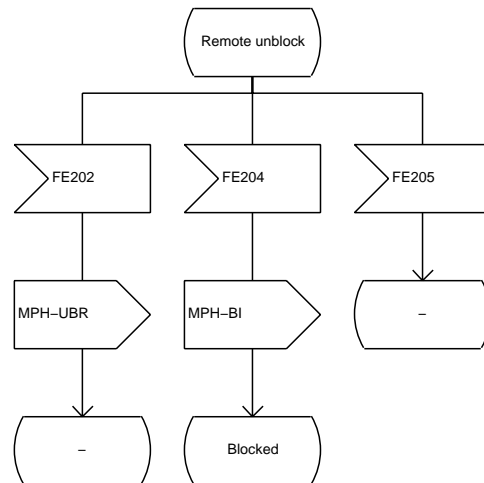


State
LE1.1 (ISDN PRA port)



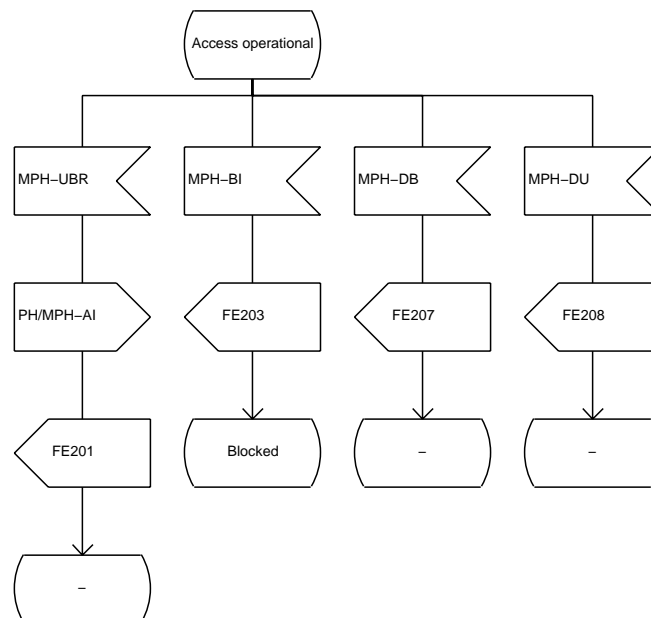
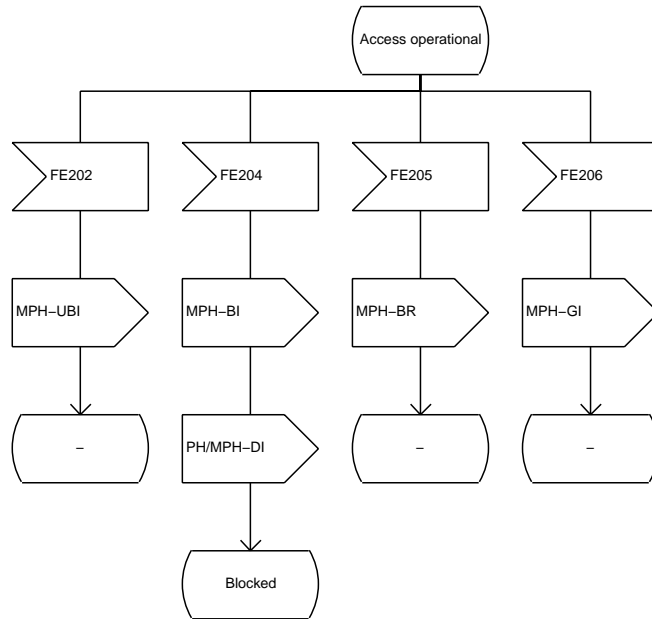


State
LE1.2 (ISDN PRA port)





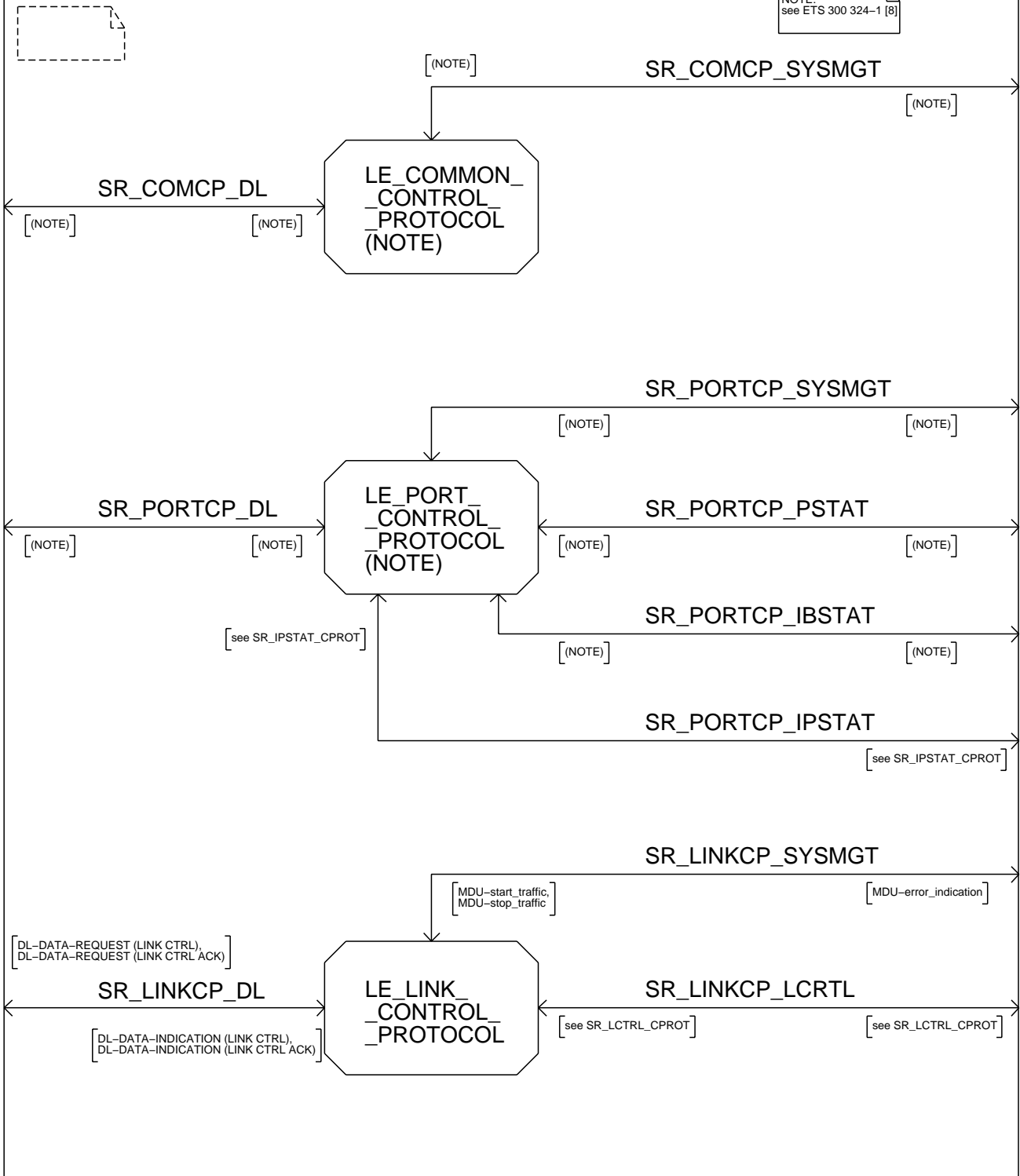
State
LE2.0 (ISDN PRA port)



Block LE_CONTROL_PROTOCOL_BLK

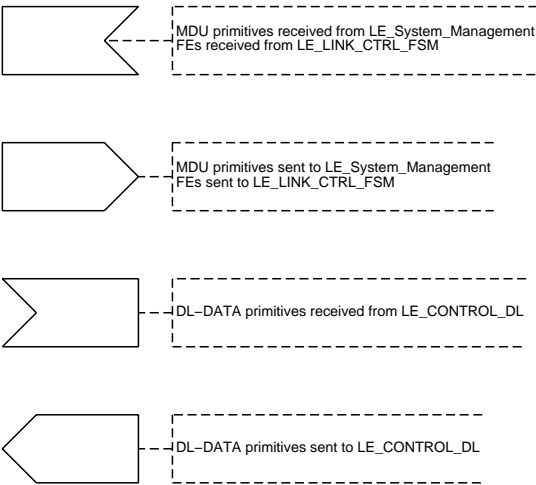
1(1)

NOTE:
see ETS 300 324-1 [8]





LE_LINK_CONTROL_PROTOCOL
message direction description

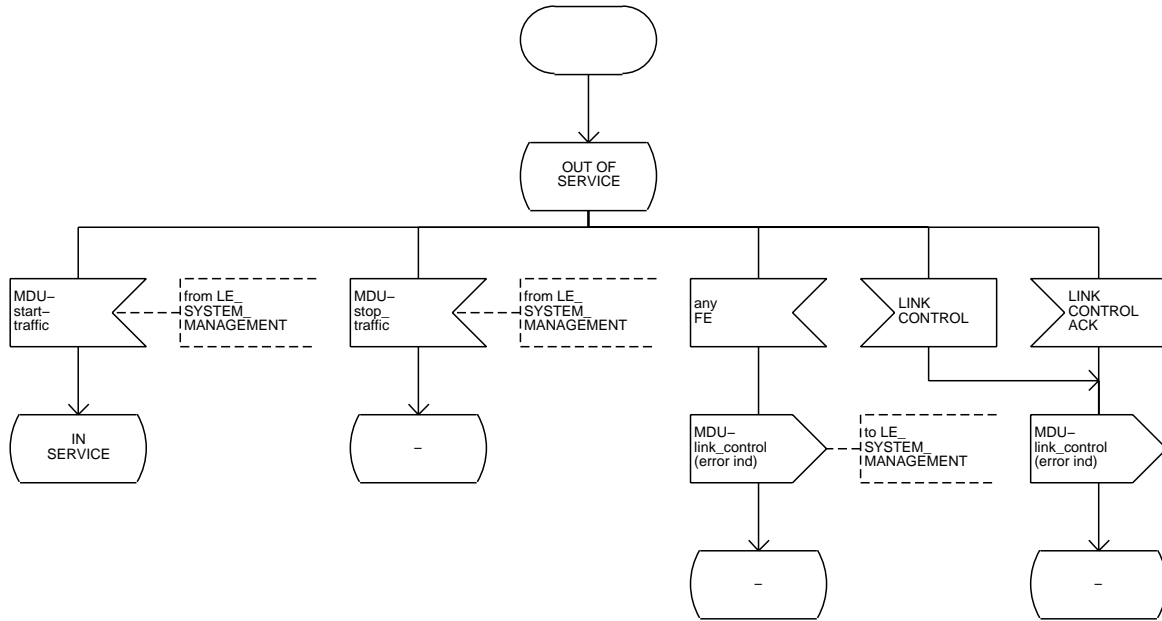


Process LE_LINK_CONTROL_PROTOCOL

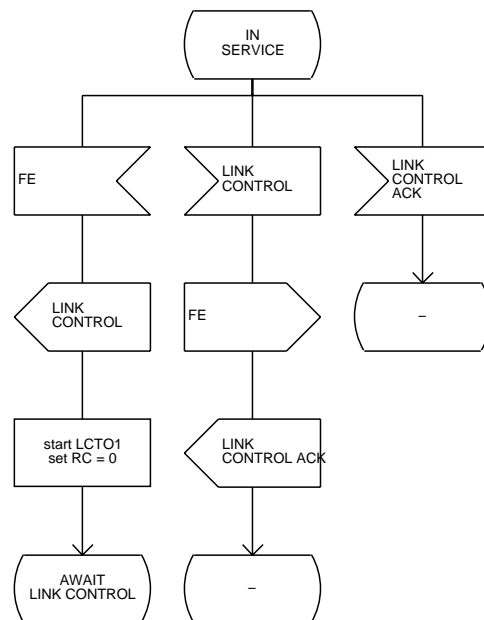
2(3)



State LE0
(LINK_CTRL_PROT)



State LE1
(LINK_CTRL_PROT)

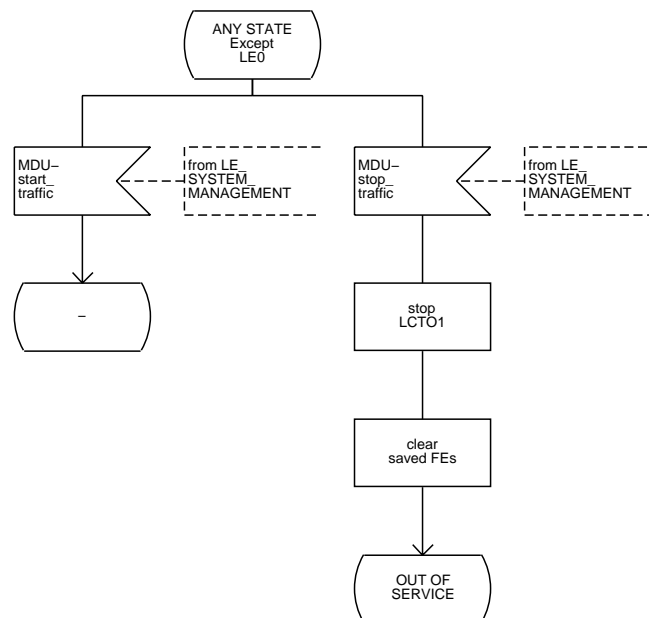
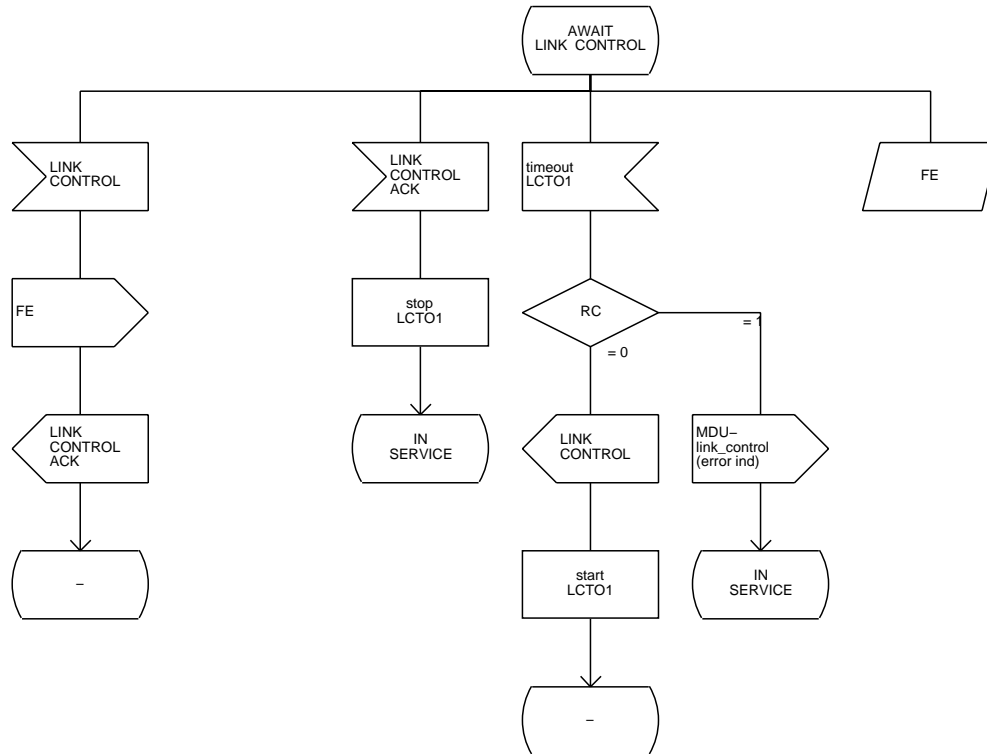


Process LE_LINK_CONTROL_PROTOCOL

3(3)



State LE2
(LINK_CTRL_PROT)



Any state
except LE0
(LINK_CTRL_PROT)

Block LE_LINK_CTRL_BLK

1(1)



MDU-AI,
MDU-DI,
MDU-LAI,
MDU-IDRej,
MDU-LUBR,
MDU-LUBI,
MDU-LBI,
MDU-LBR,
MDU-LBRN,
MDU-IDReq,
MDU-IDRel,
MDU-Elg

SR_LCTRL_SYSMGT

FE-IDReq,
FE-IDAck,
FE-IDRel,
FE-IDRej,
FE302 (link unblock req or ind),
FE304 (link block ind),
FE305 (link block req def),
FE306 (link block req non-def)

MDU-IDReq,
MDU-LUBR,
MDU-LBI,
MDU-IDAck,
MDU-IDRej

FE-IDReq,
FE-IDAck,
FE-IDRel,
FE-IDRej,
FE301 (link unblock req or ind),
FE303 (link block ind)

SR_LCTRL_CPROT

LE_LINK_CTRL_FSM

MPH-AI,
MPH-DI,
MPH-IDI,
MPH-Elg,
MPH-Elg-f

SR_LCTRL_LSTAT

MPH-ID,
MPH-IDR,
MPH-NOR



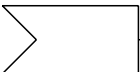
LE_LINK_CTRL_FSM
message direction description



MDU primitives received from LE_System_Management



MDU primitives sent to LE_System_Management



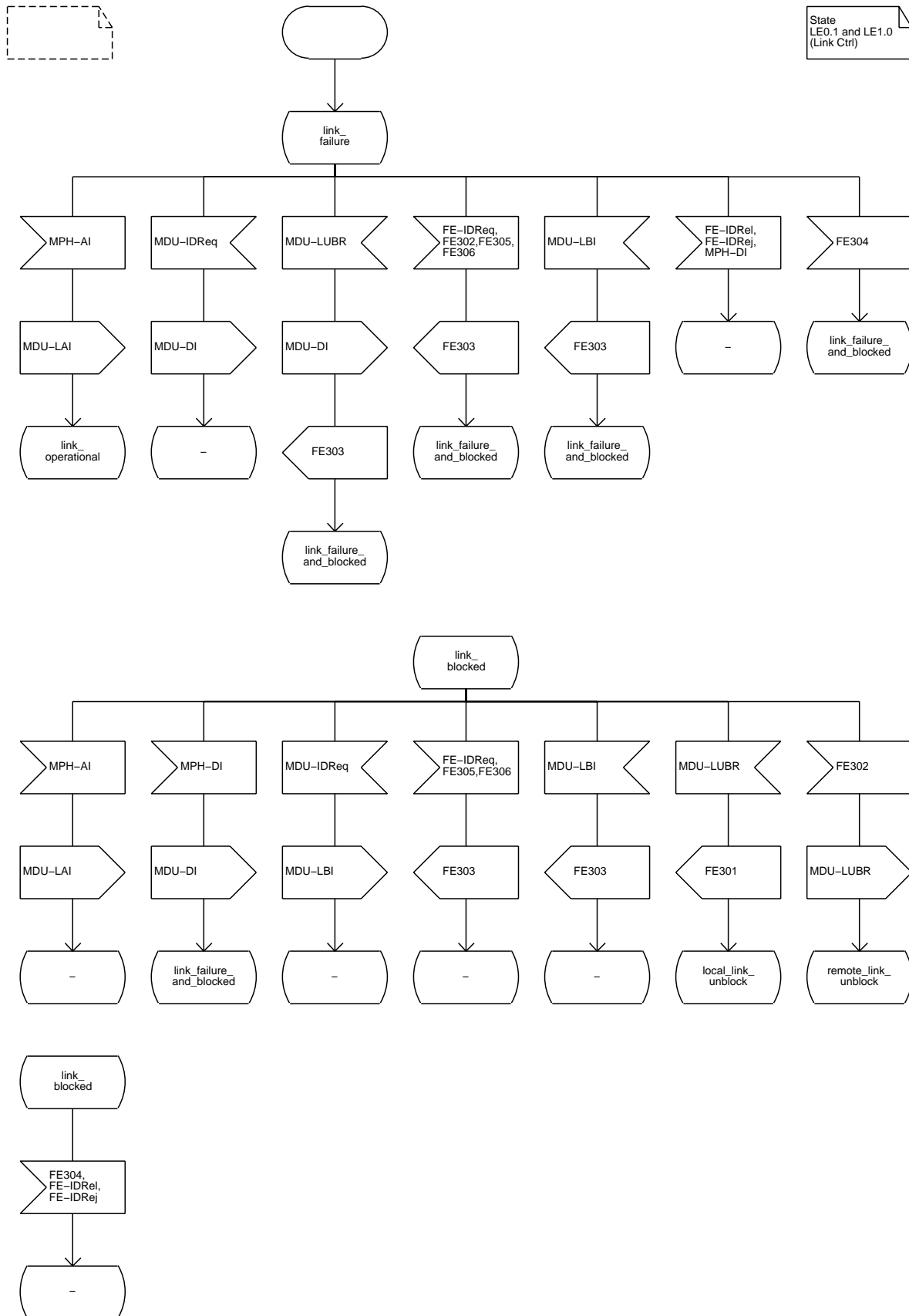
MPH primitives received from LE_V5_link_status_FSM
FEs received from peer entity in AN via LE_LINK_CONTROL_PROTOCOL



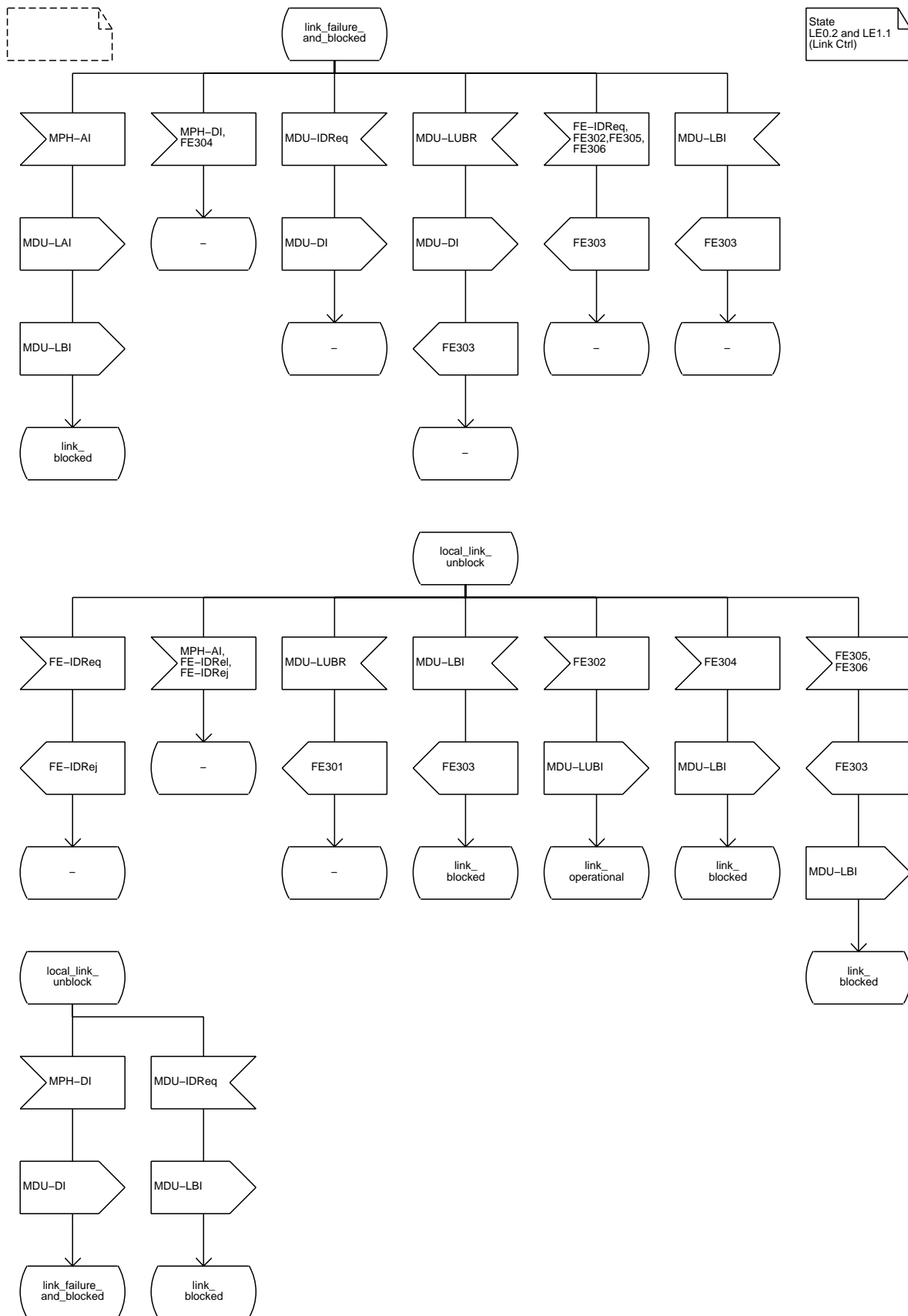
MPH primitives sent to LE_V5_link_status_FSM
FEs sent to peer entity in AN via LE_LINK_CONTROL_PROTOCOL

Process LE_LINK_CTRL_FSM

2(6)

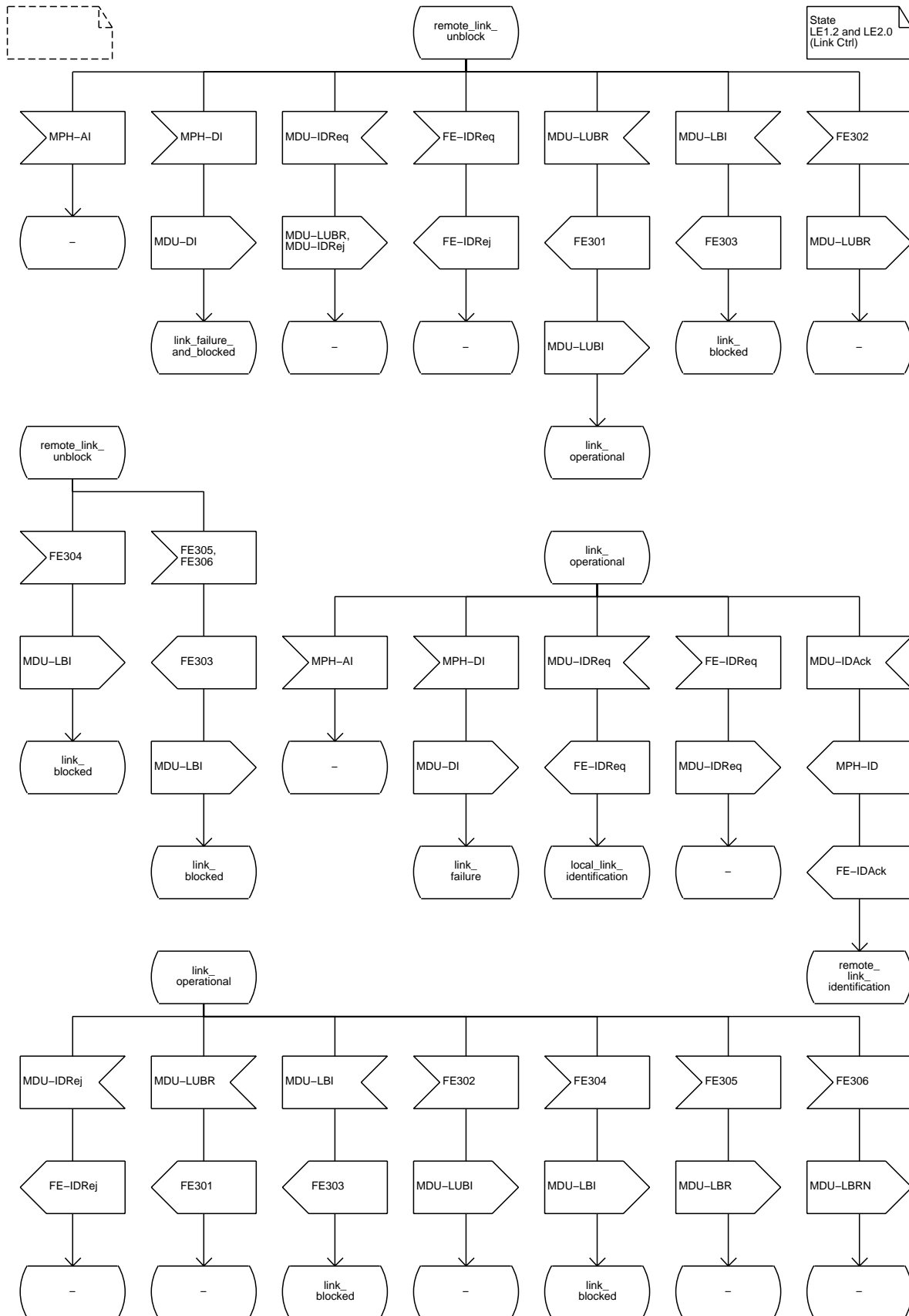


3(6)



Process LE_LINK_CTRL_FSM

4(6)

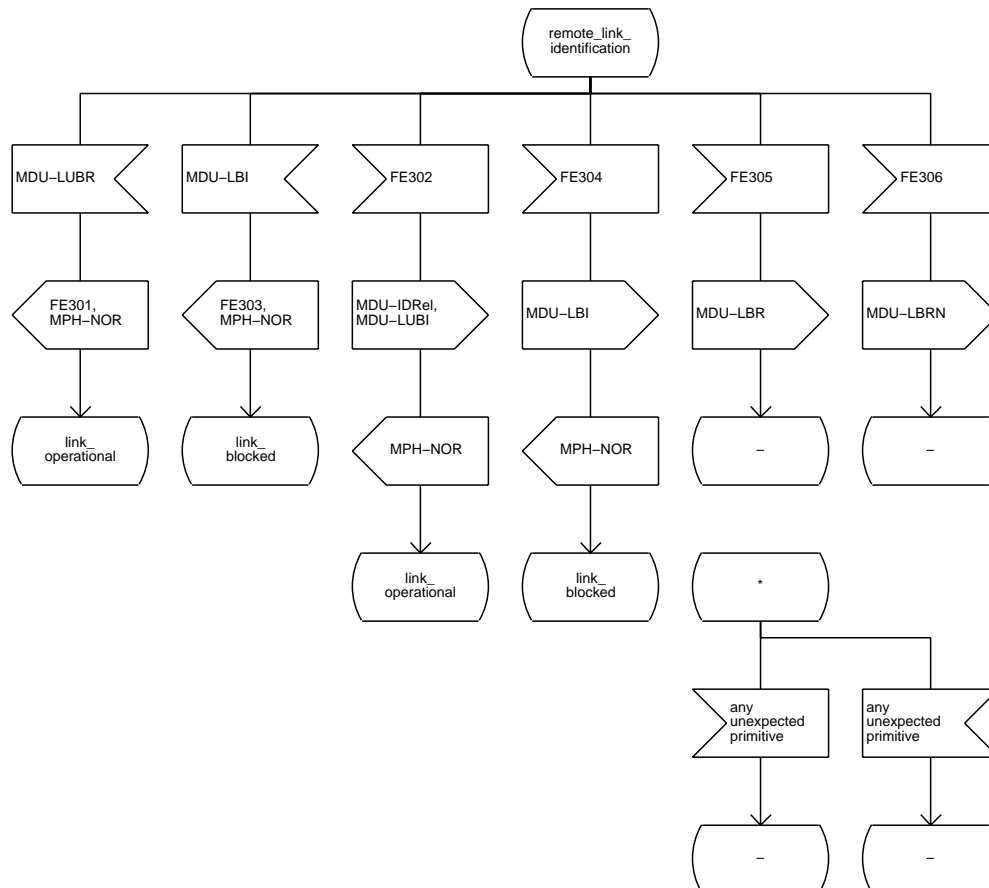
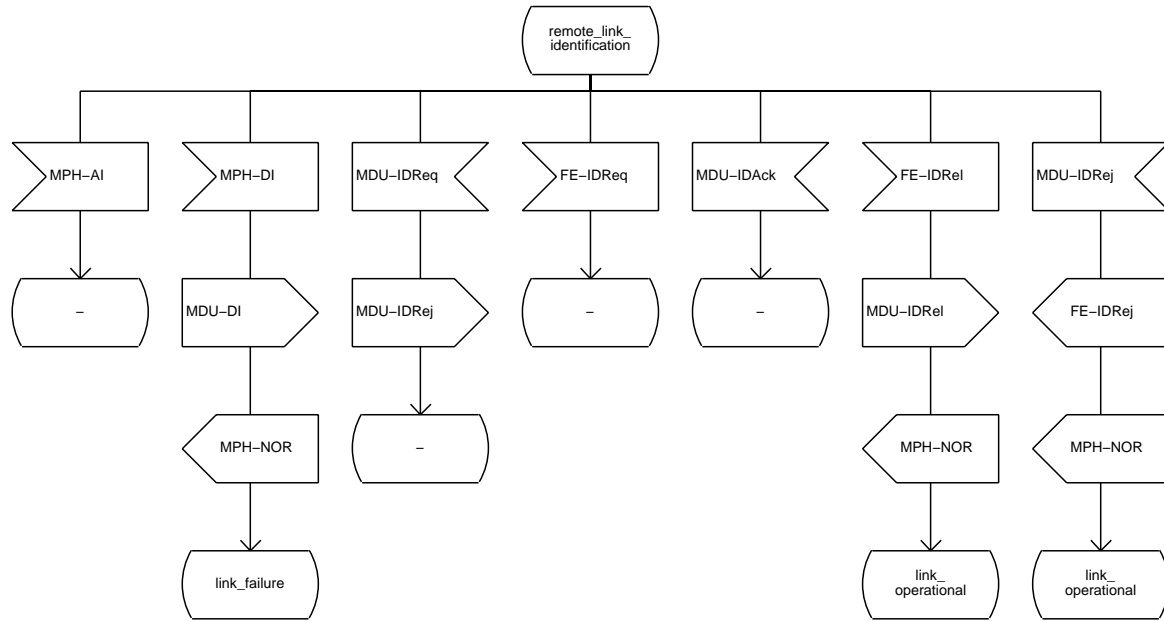


Process LE_LINK_CTRL_FSM

5(6)

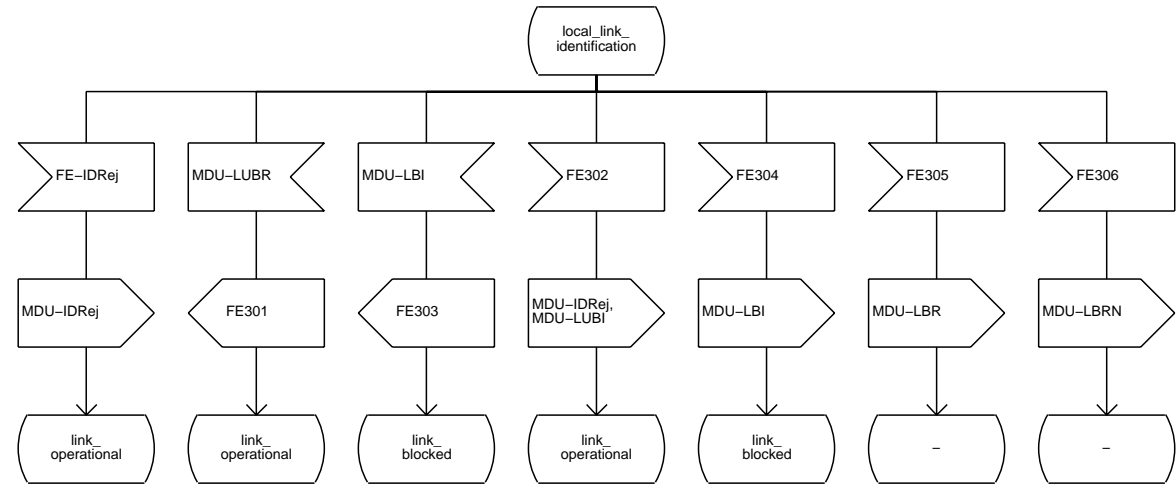
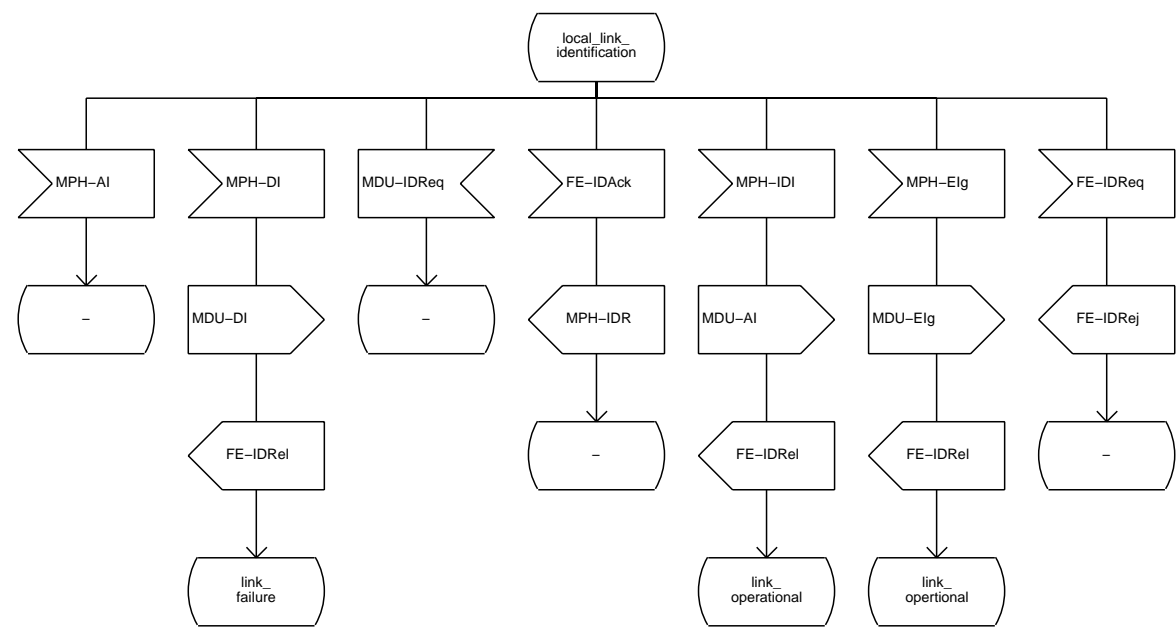


State
LE2.1 (Link Ctrl)
and any state

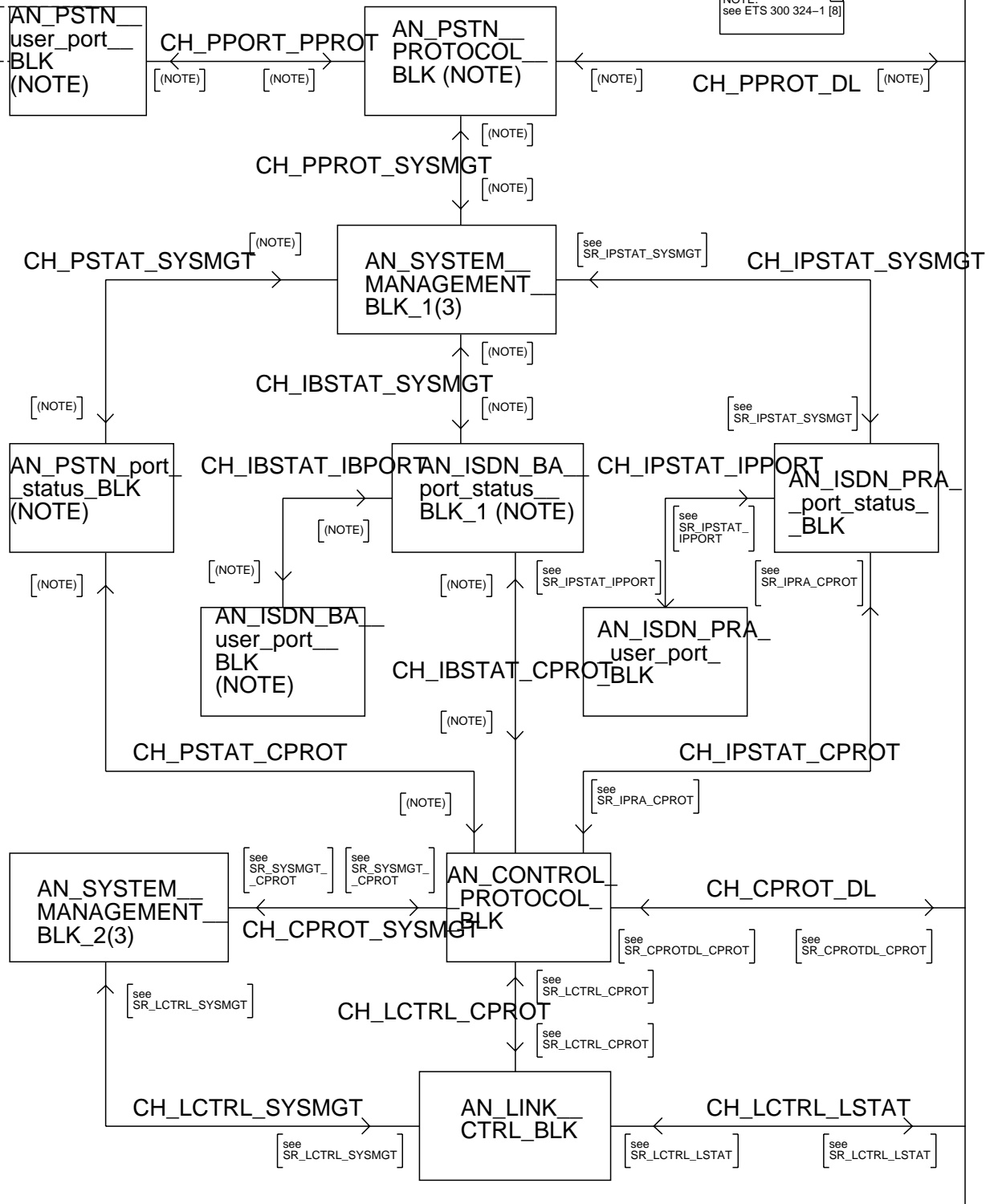




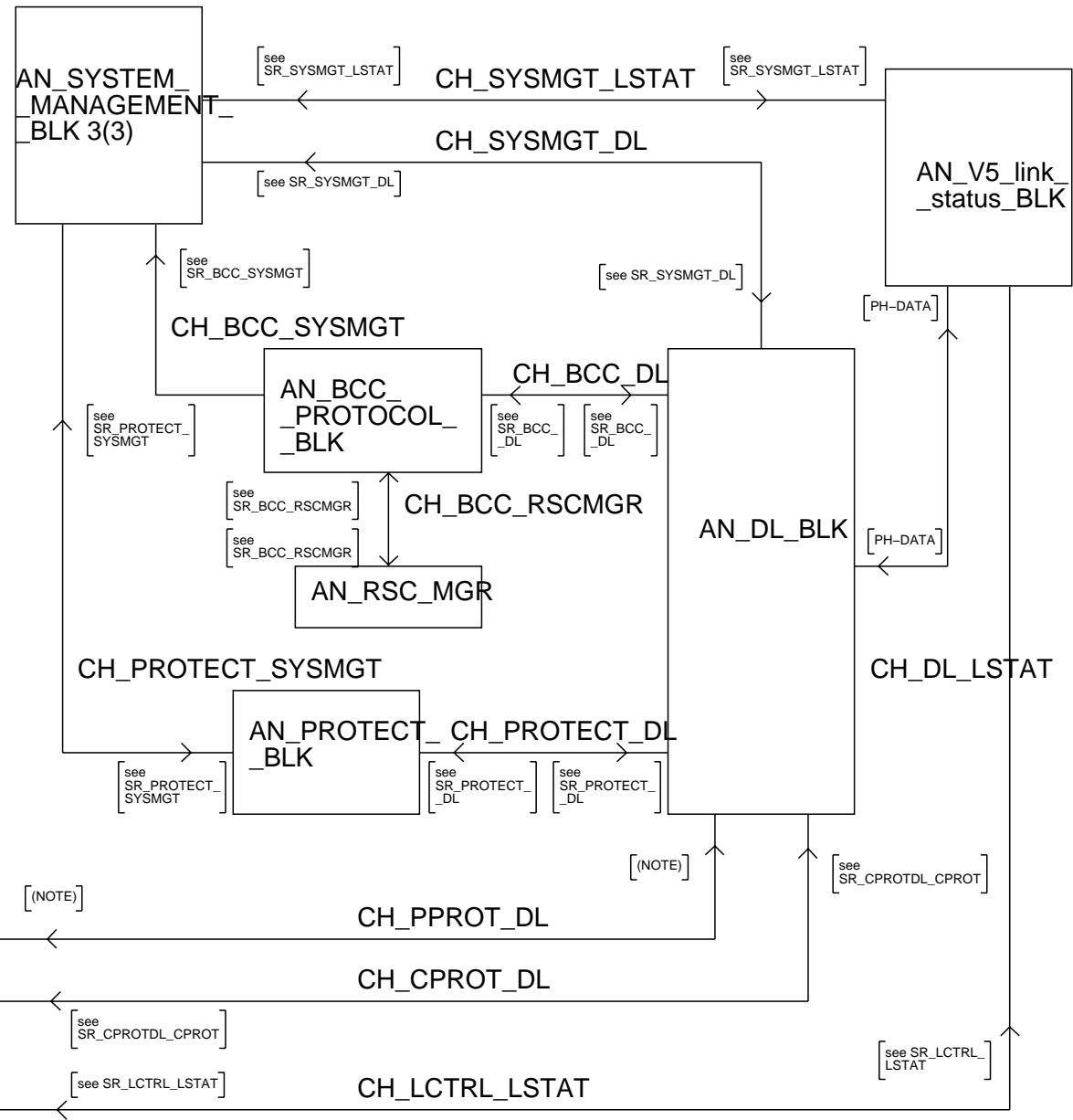
State
LE2.2 (Link Ctrl)



NOTE:
see ETS 300 324-1 [8]

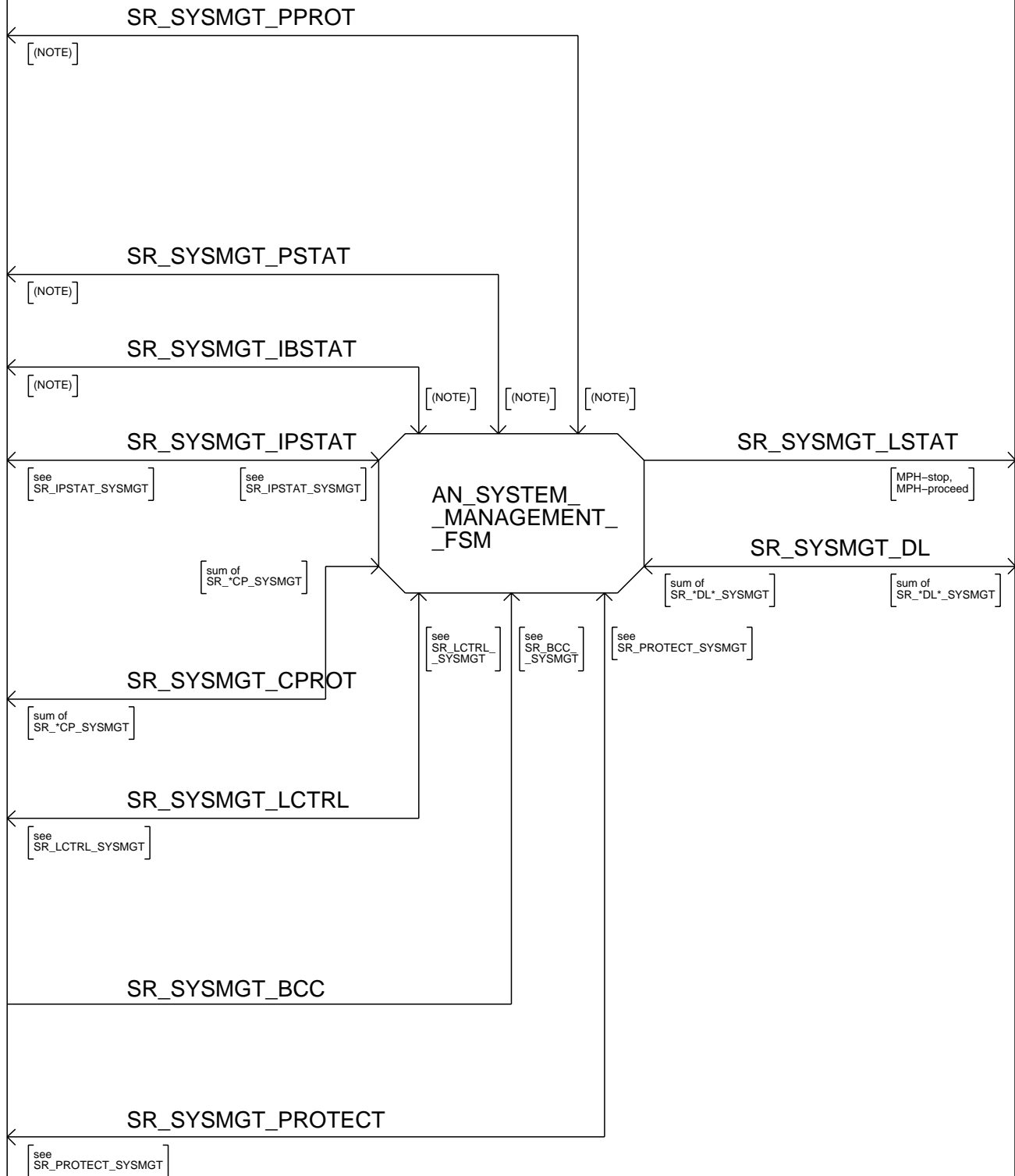


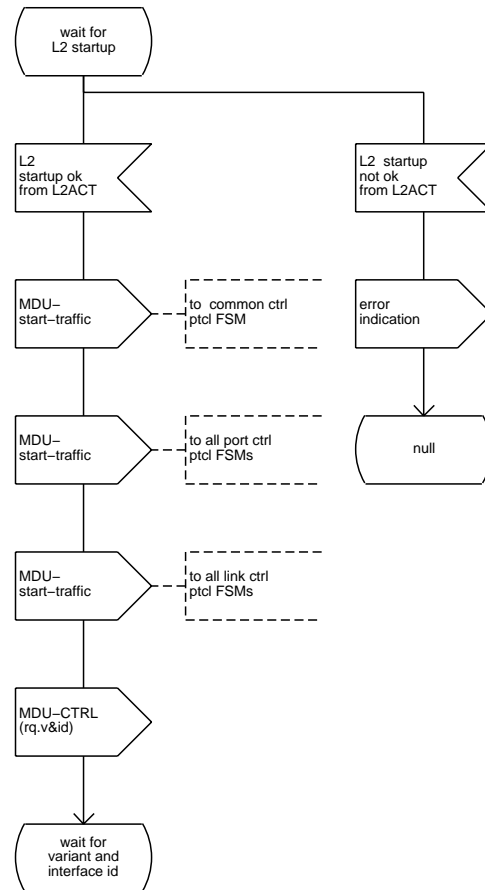
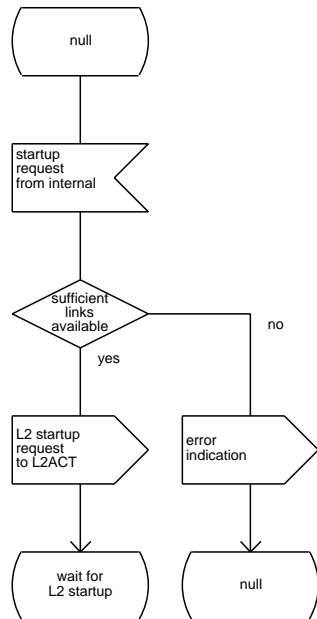
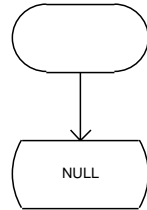
NOTE:
see ETS 300 324-1 [8]

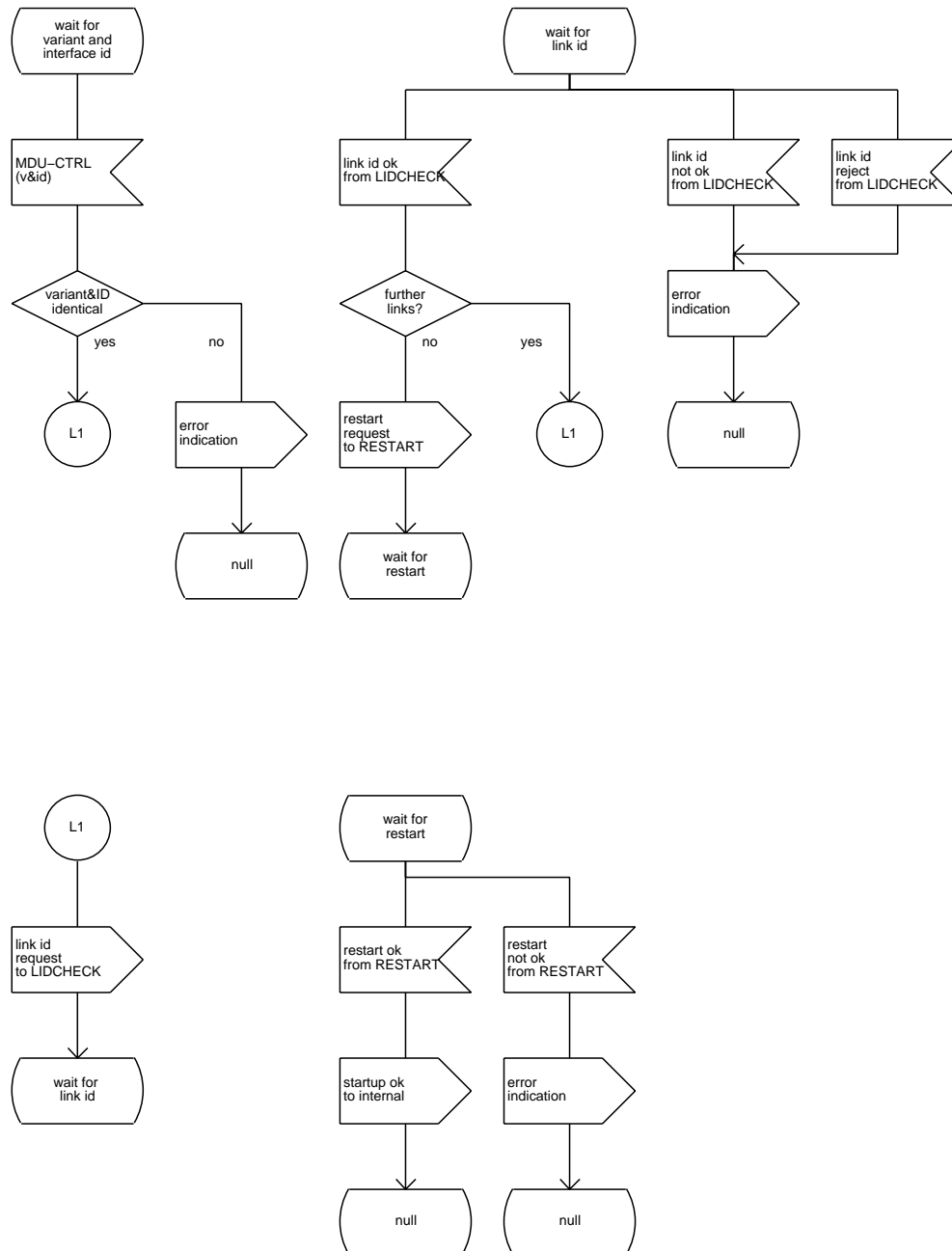


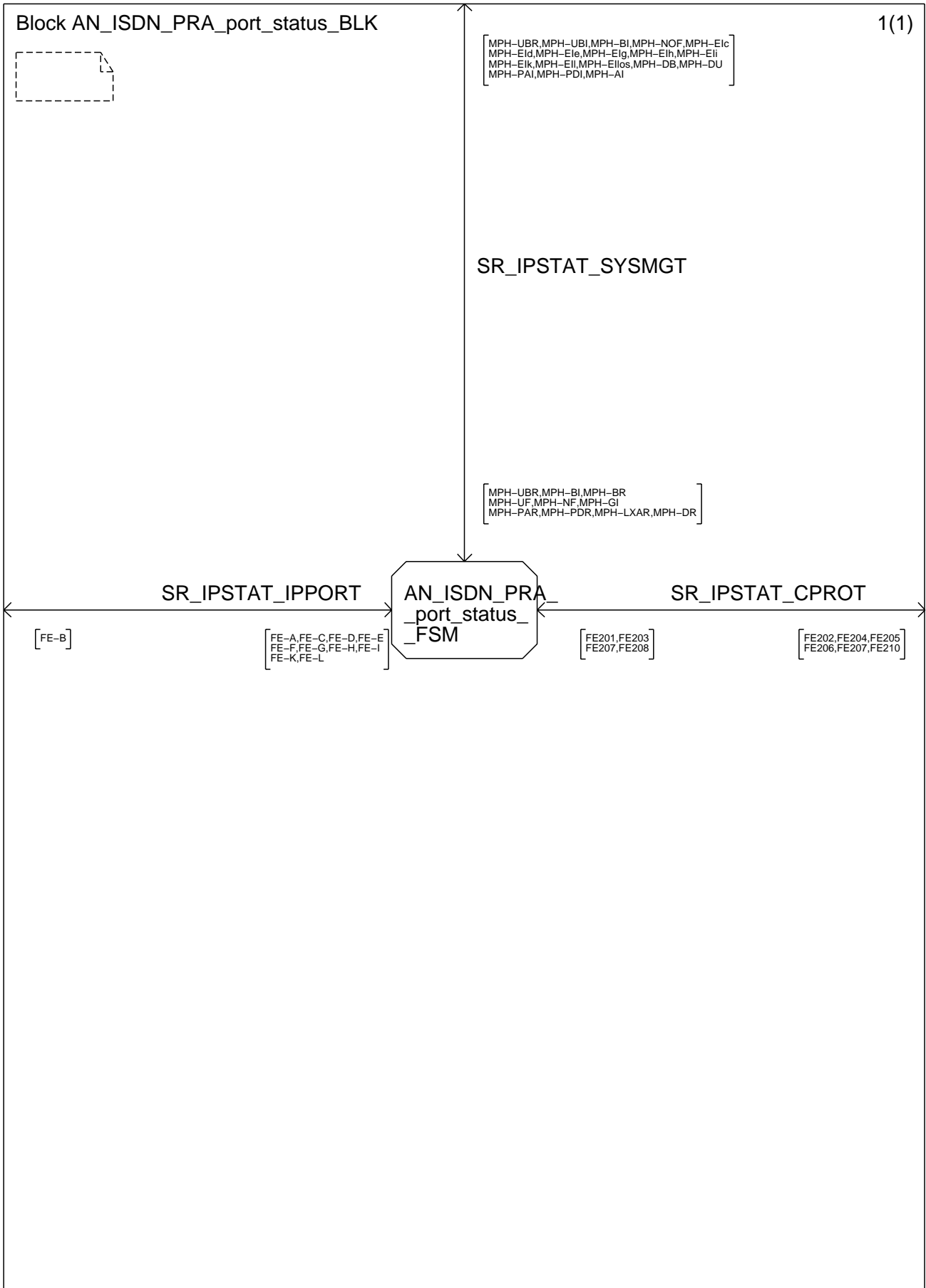


NOTE:
see ETS 300 324-1 [8]



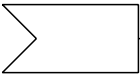








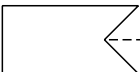
AN_ISDN_PRA_port_status_FSM
message direction description



MPH primitives received from AN_System_Management
FEs received from AN_ISDN_PRA_user_port



MPH primitives sent to AN_System_Management
FEs sent to AN_ISDN_PRA_user_port



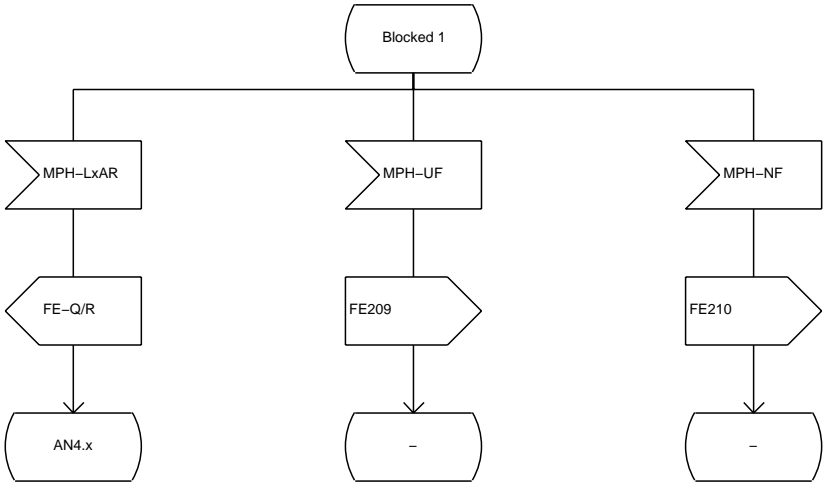
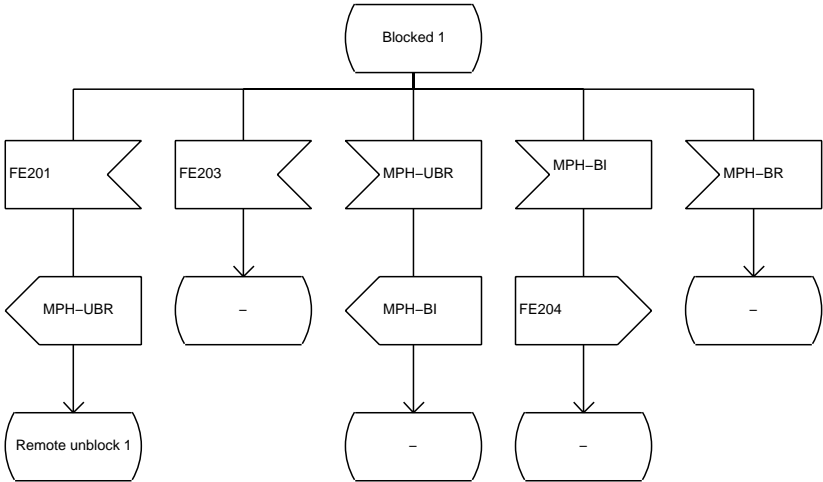
FEs received from peer entity in LE via AN_PORT_CONTROL_PROTOCOL



FEs sent to peer entity in LE via AN_PORT_CONTROL_PROTOCOL

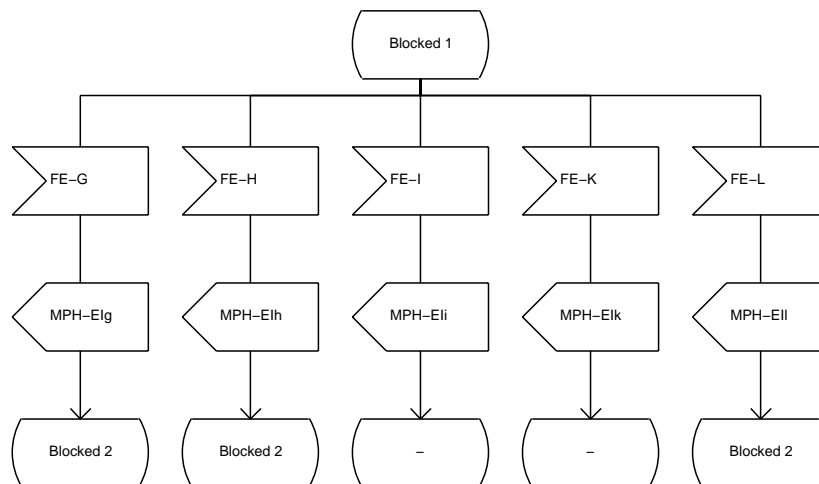
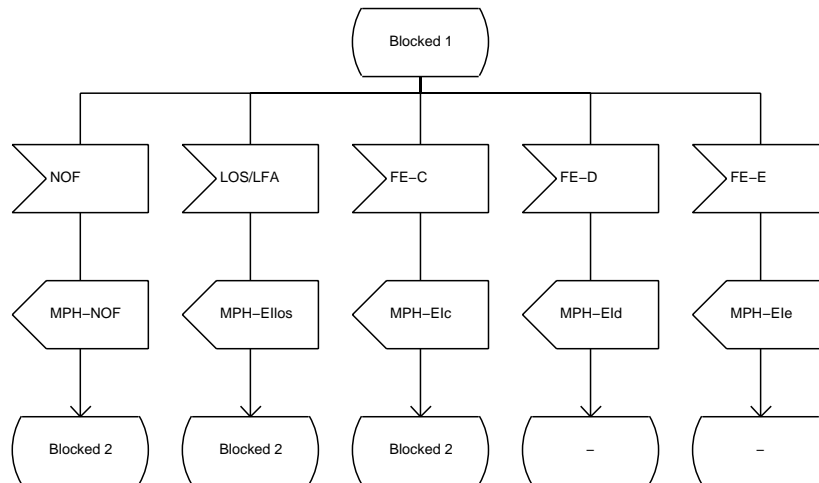


State
AN1.01 (ISDN PRA port)



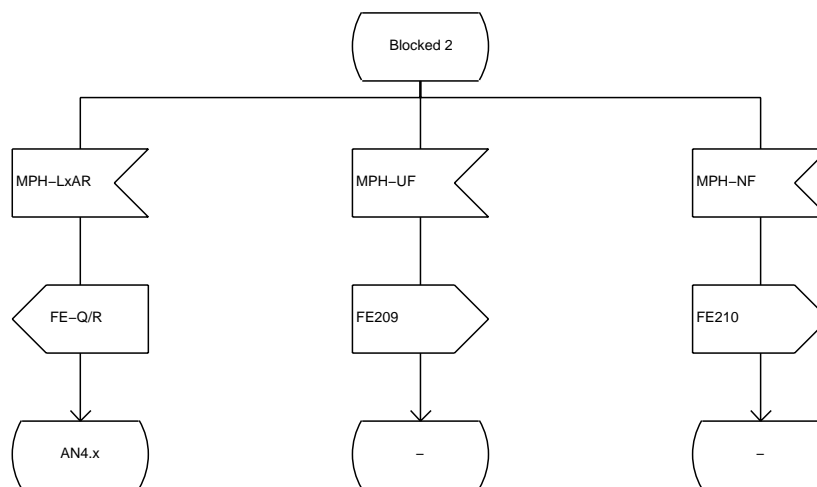
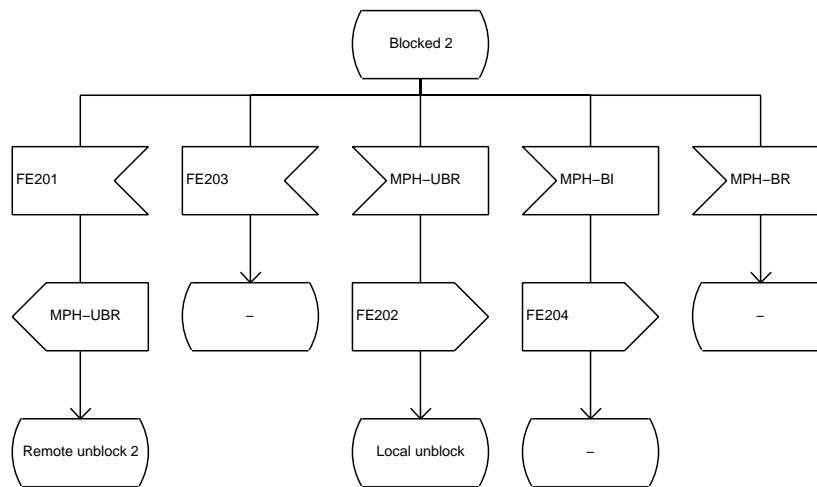


State
AN1.01 (ISDN PRA port)



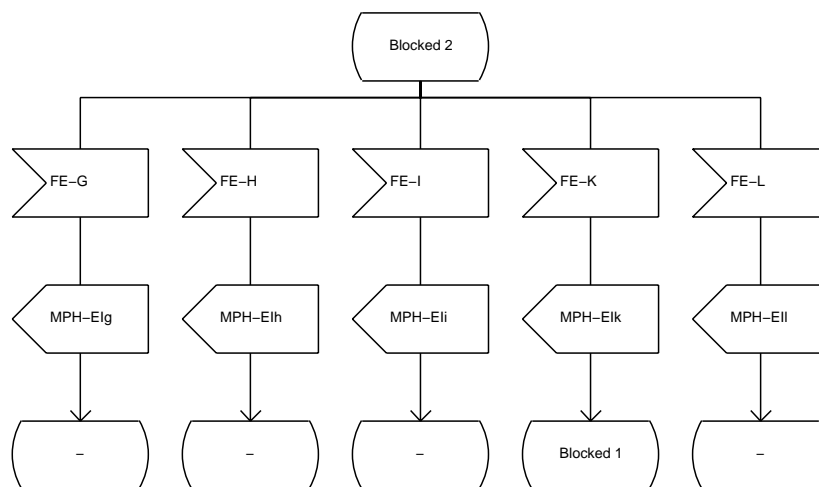
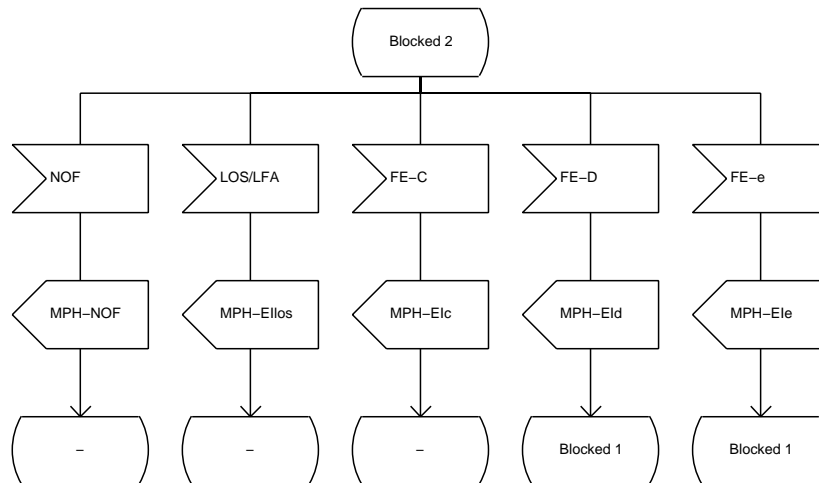


State
AN1.1 (ISDN PRA port)



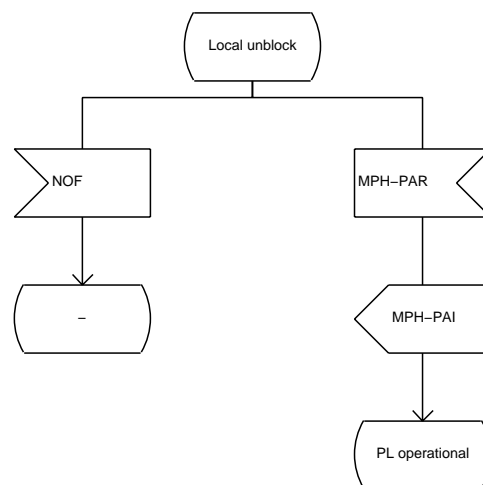
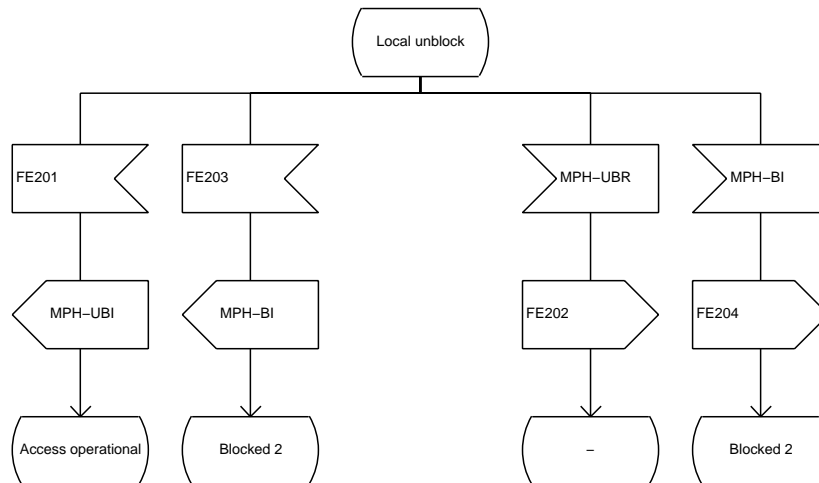


State
AN1.02 (ISDN PRA port)



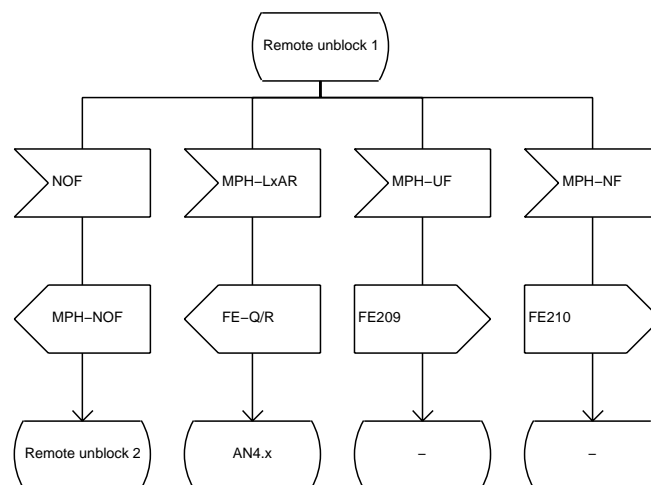
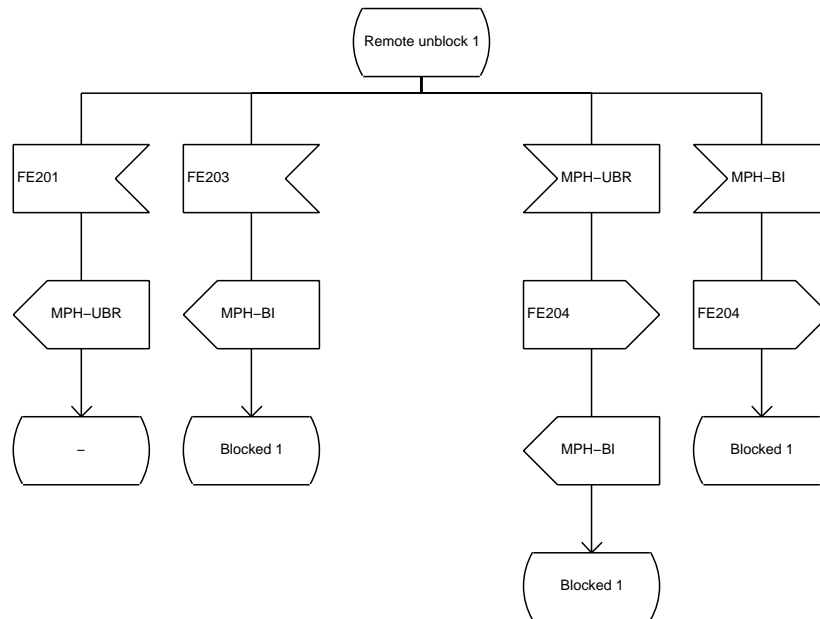


State
AN1.1 (ISDN PRA port)



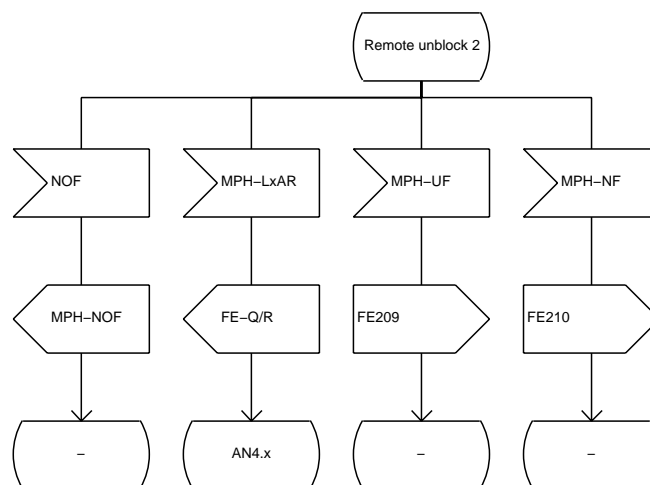
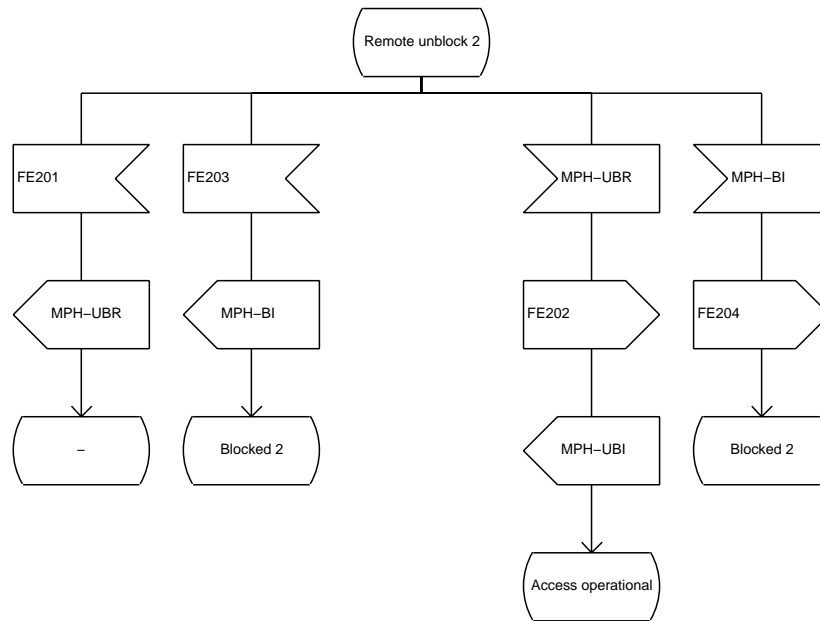


State
AN1.21 (ISDN PRA port)



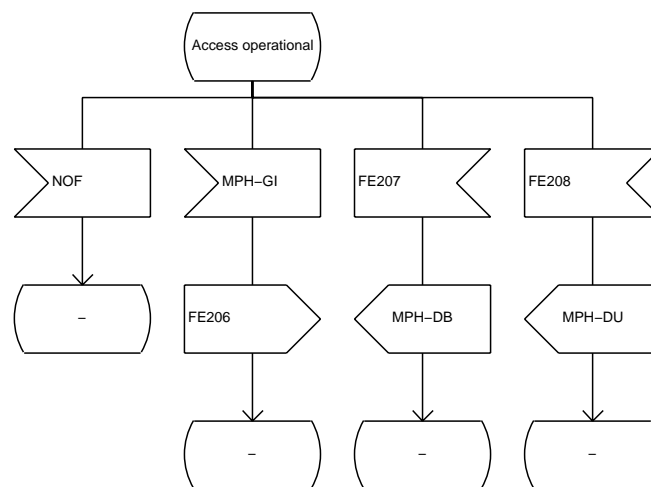
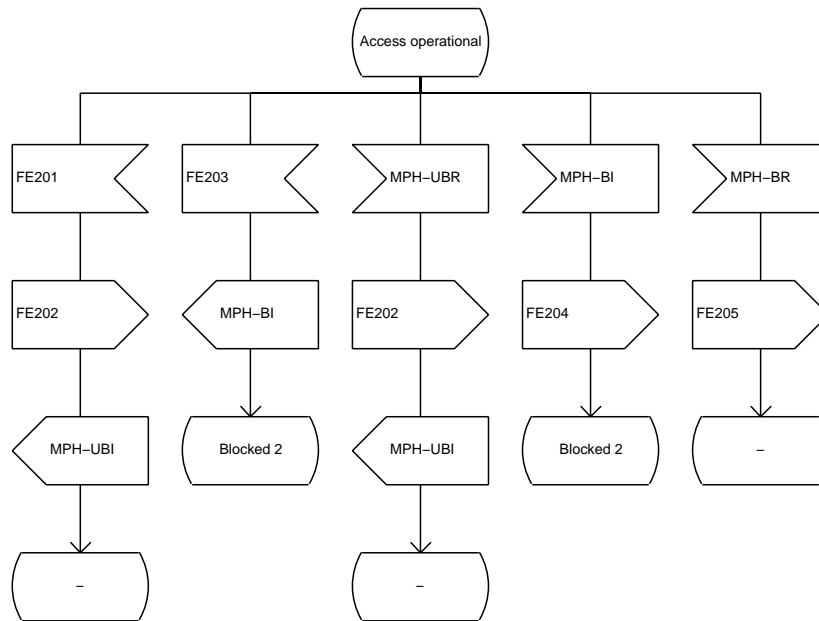


State
AN1.22 (ISDN PRA port)



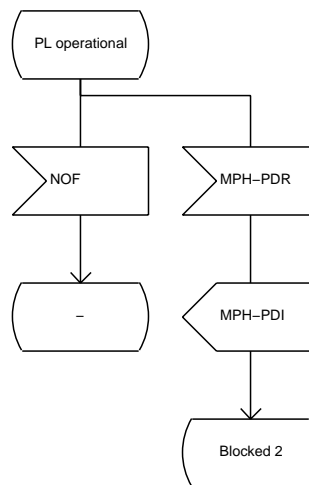
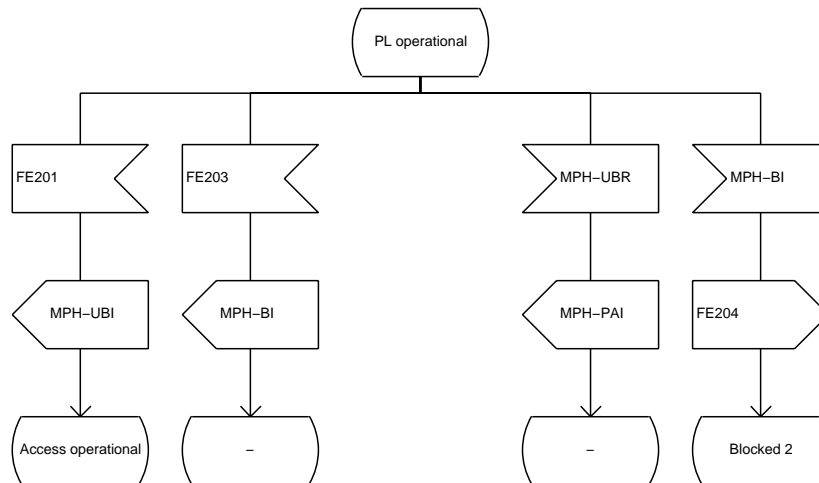


State
AN2.0 (ISDN PRA port)



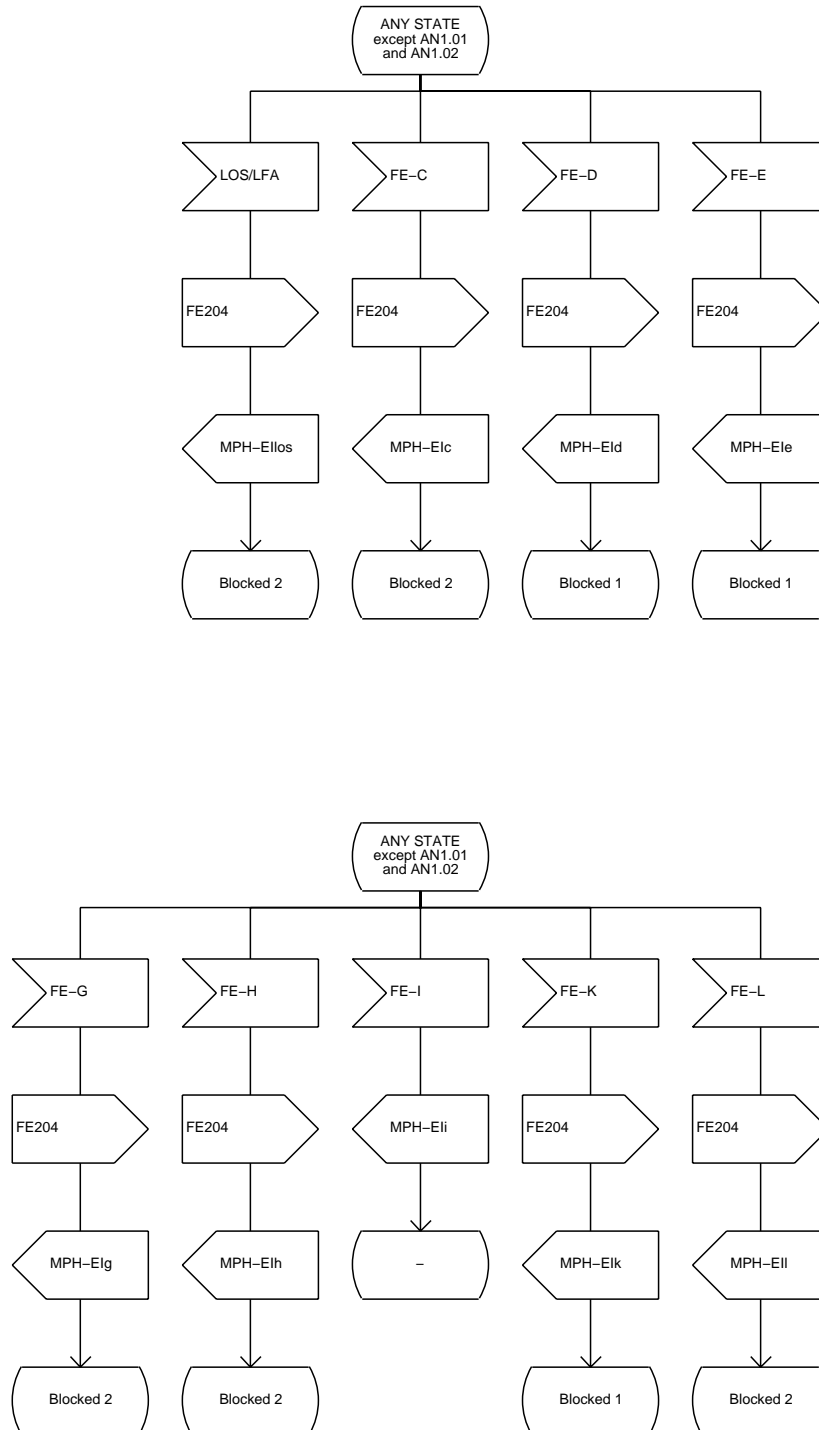


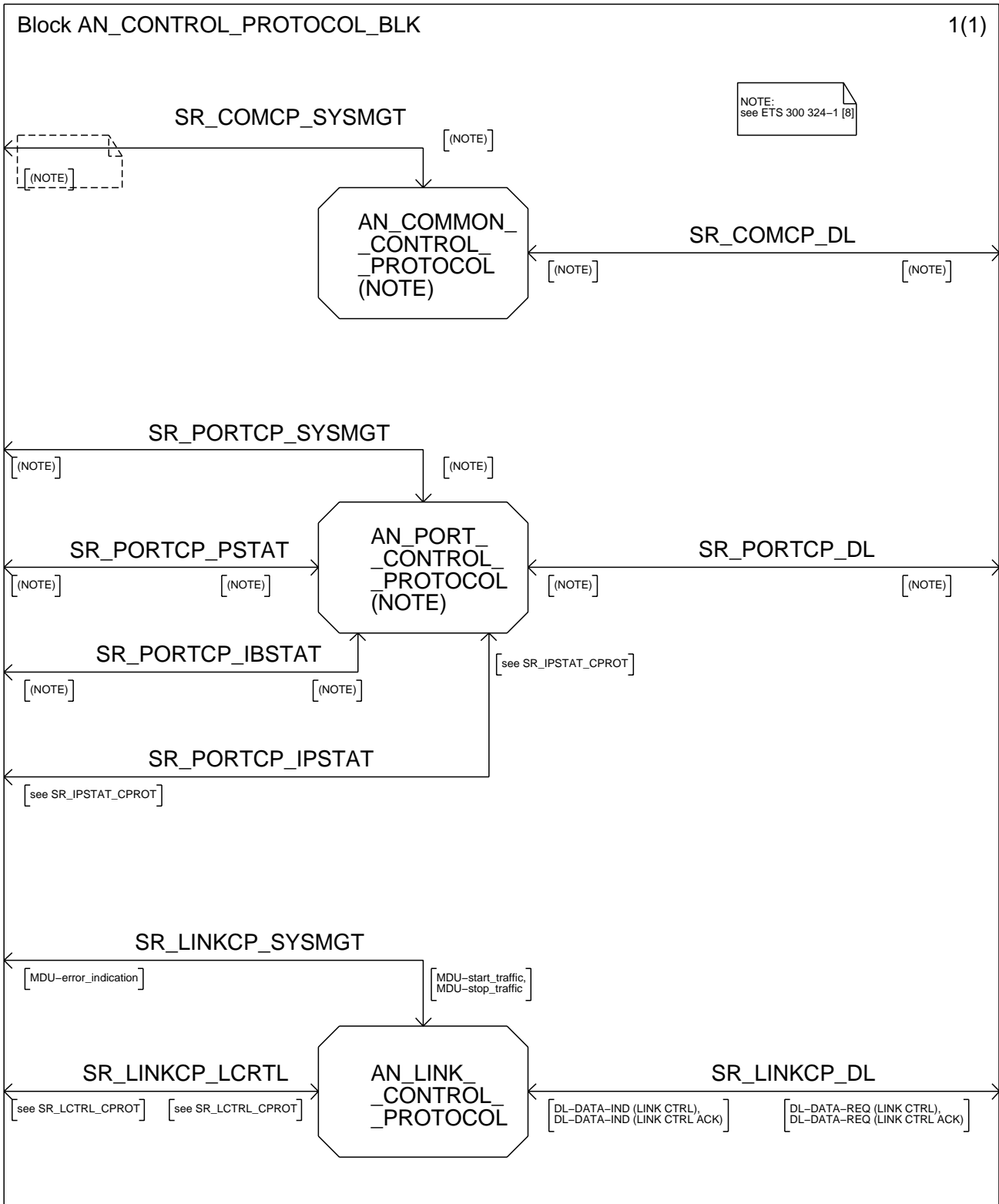
State
AN3.0 (ISDN PRA port)





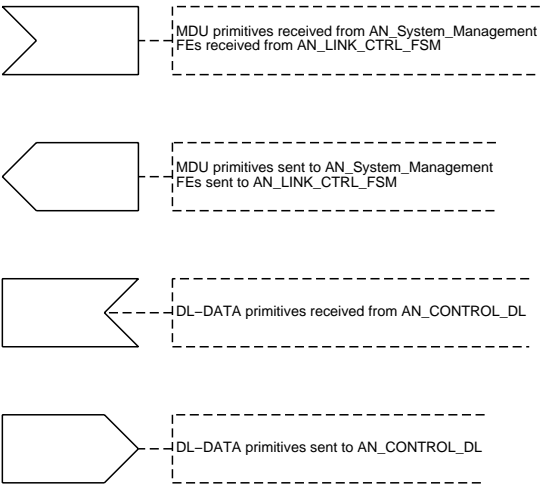
Any State
except AN1.01
and AN1.02







AN_LINK_CONTROL_PROTOCOL
message direction description

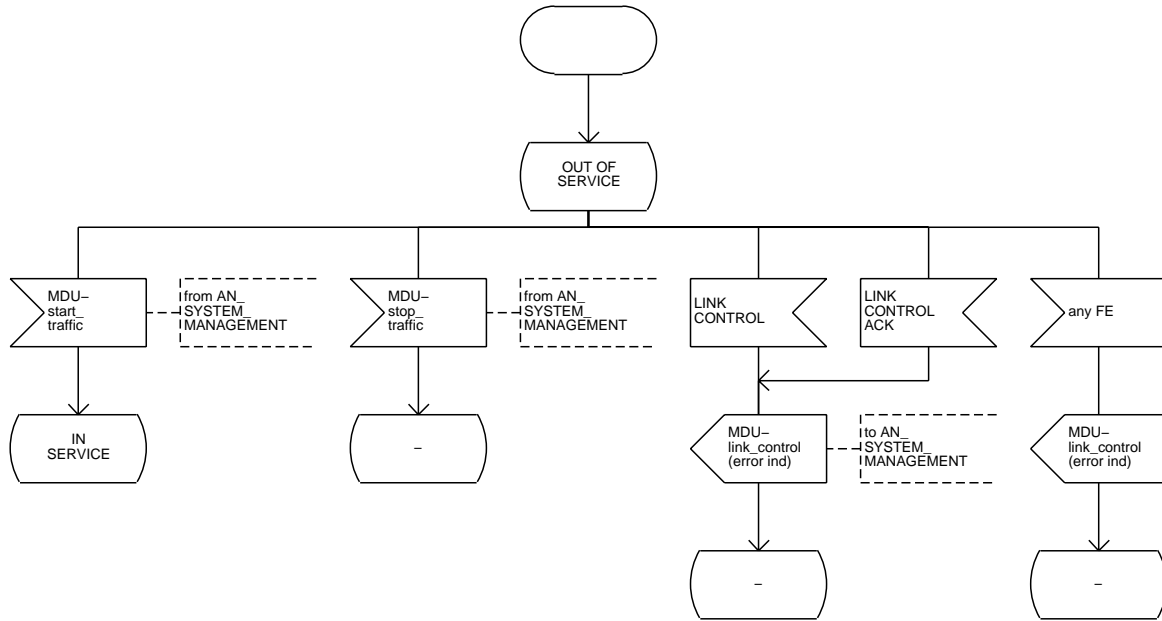


Process AN_LINK_CONTROL_PROTOCOL

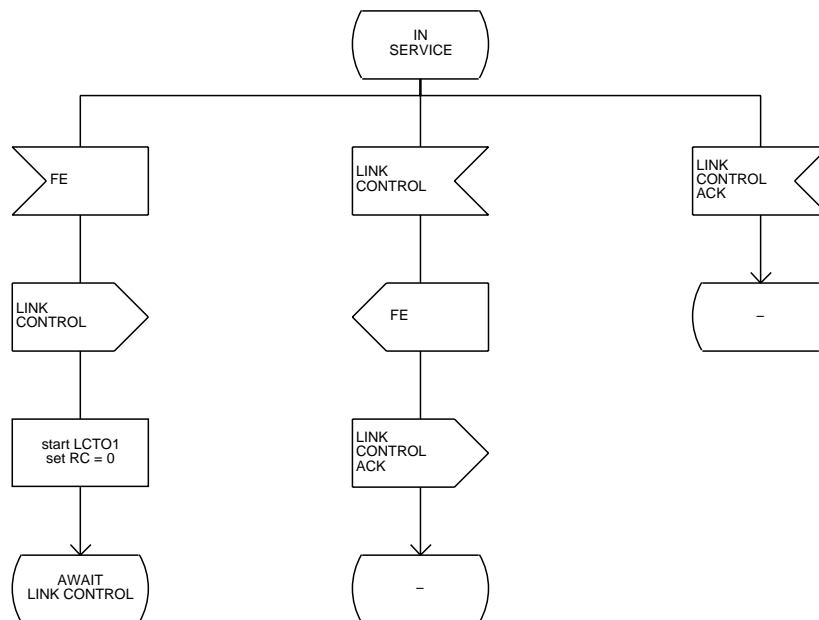
2(3)



State
AN0 (LINK_CTRL_PROT)



State
AN1(LINK_CTRL_PROT)

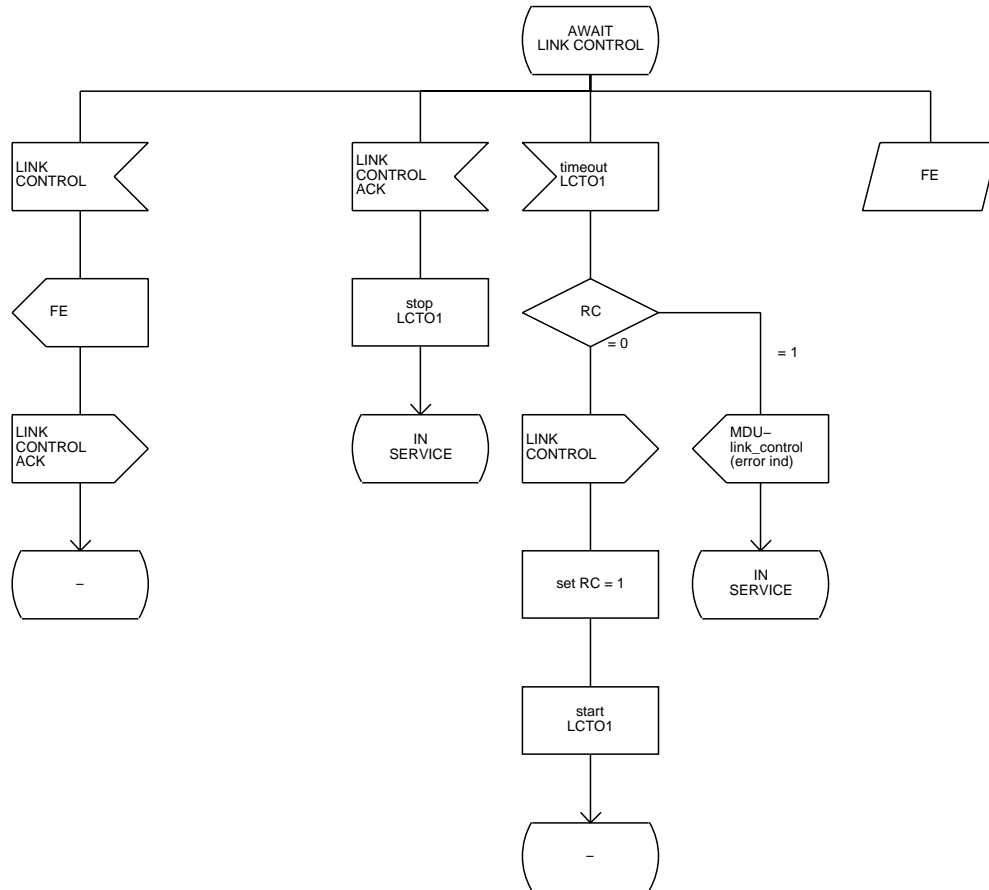


Process AN_LINK_CONTROL_PROTOCOL

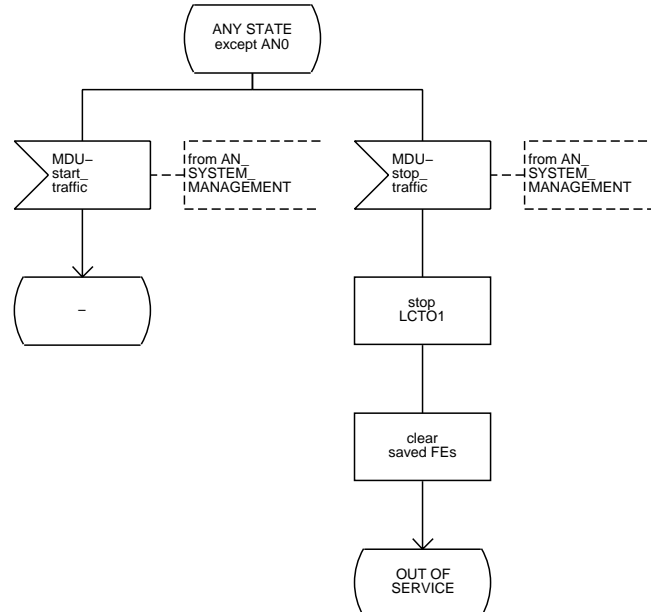
3(3)

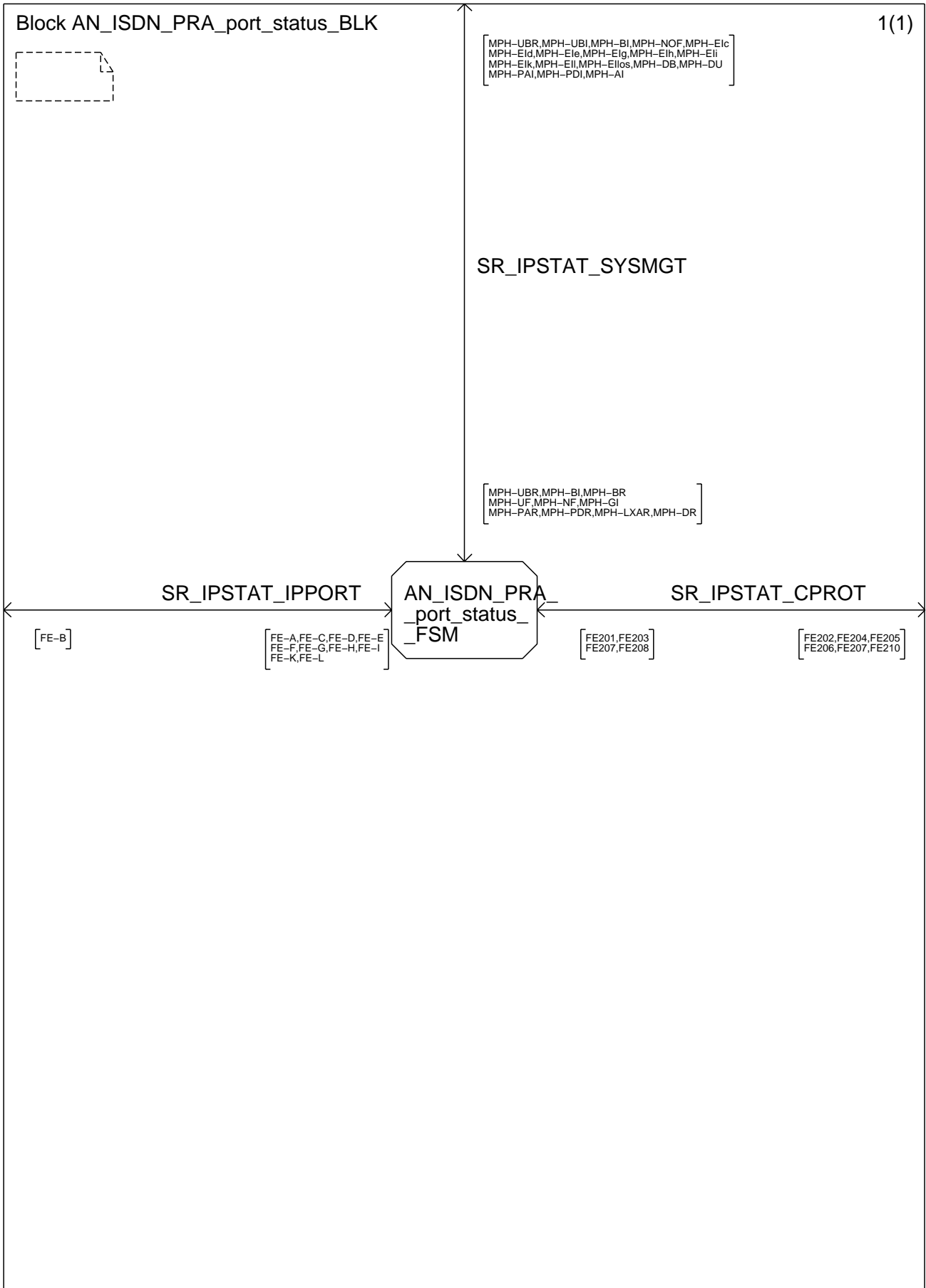


State
AN2 (LINK_CTRL_PROT)



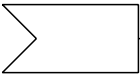
Any state
except AN0
(LINK_CTRL_PROT)







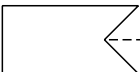
AN_ISDN_PRA_port_status_FSM
message direction description



MPH primitives received from AN_System_Management
FEs received from AN_ISDN_PRA_user_port



MPH primitives sent to AN_System_Management
FEs sent to AN_ISDN_PRA_user_port



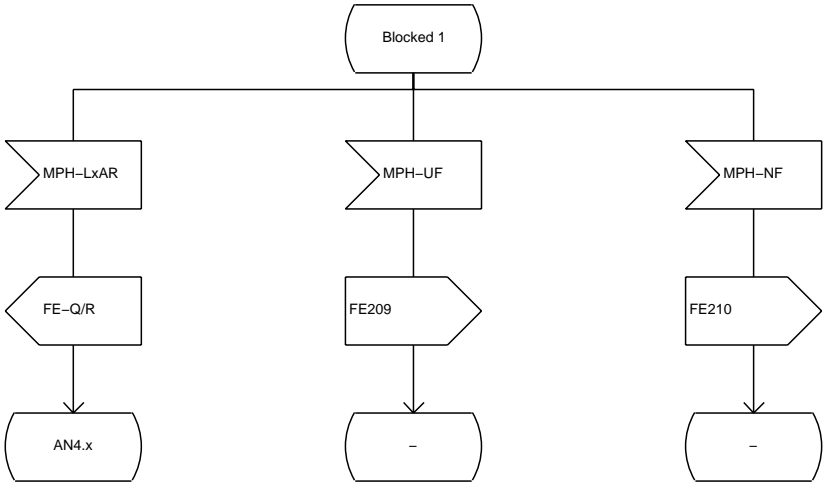
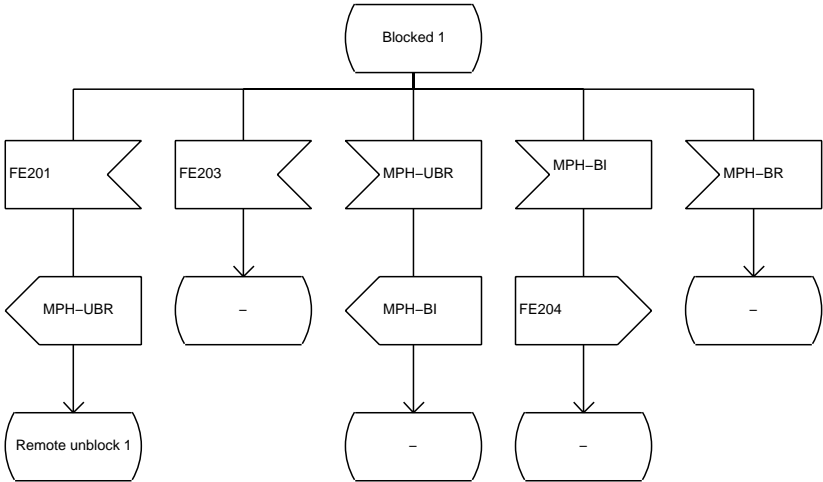
FEs received from peer entity in LE via AN_PORT_CONTROL_PROTOCOL



FEs sent to peer entity in LE via AN_PORT_CONTROL_PROTOCOL

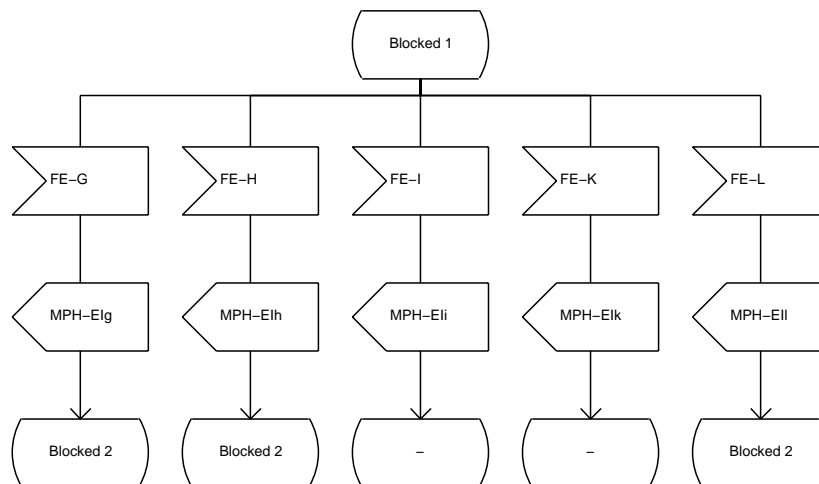
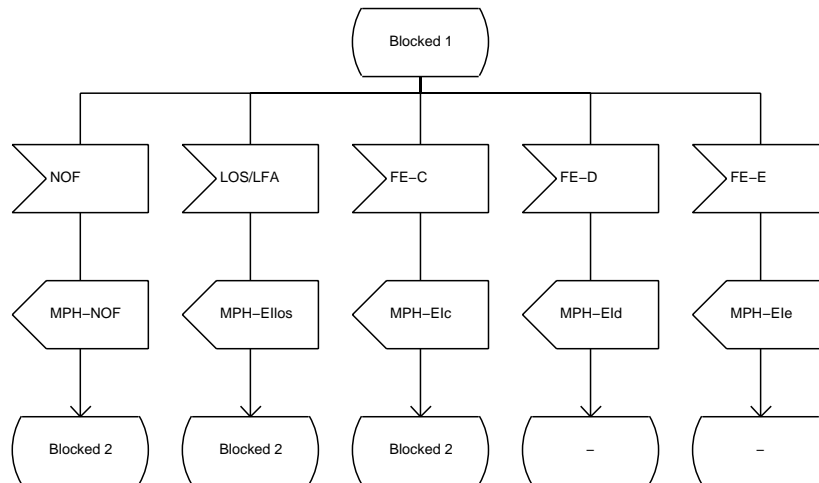


State
AN1.01 (ISDN PRA port)



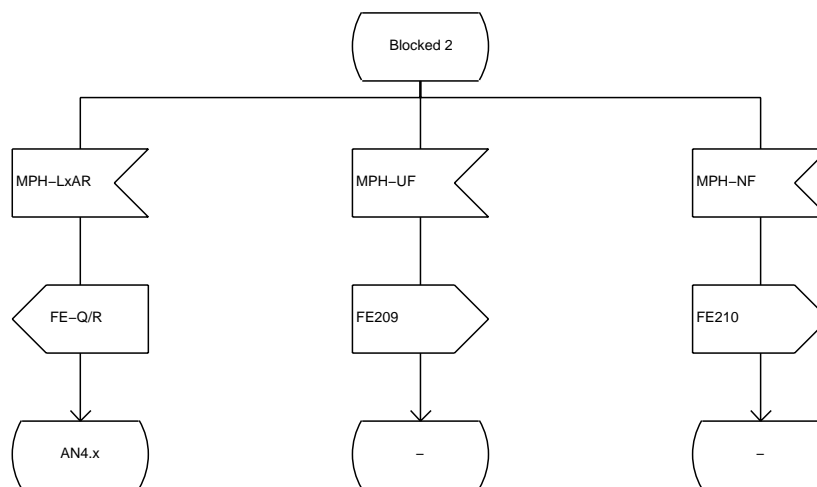
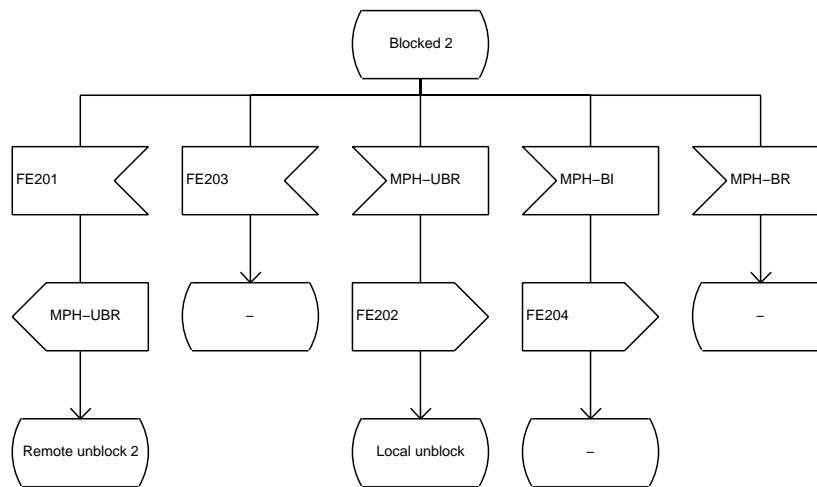


State
AN1.01 (ISDN PRA port)



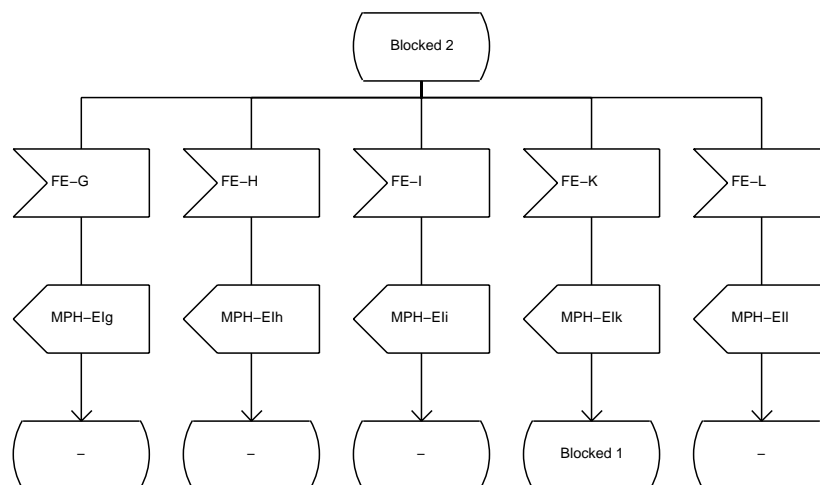
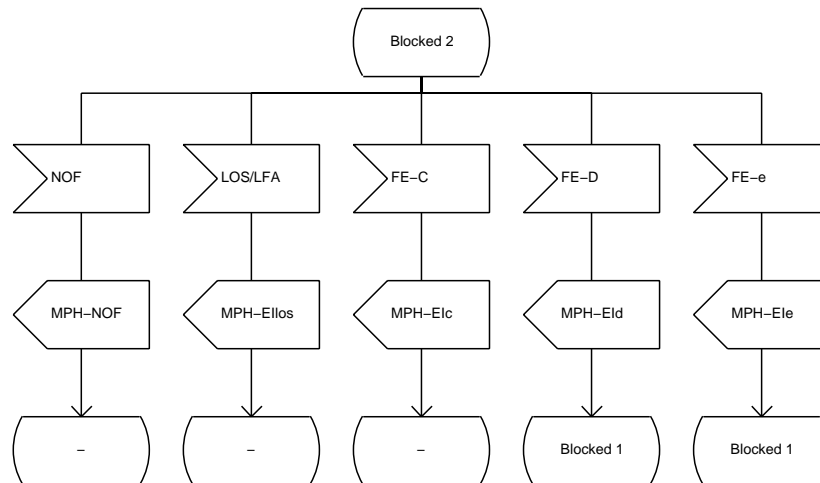


State
AN1.1 (ISDN PRA port)



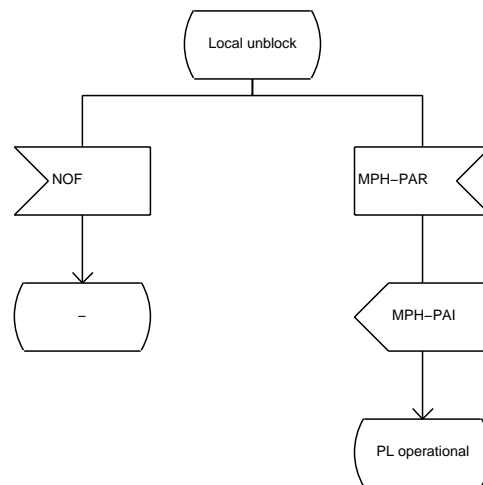
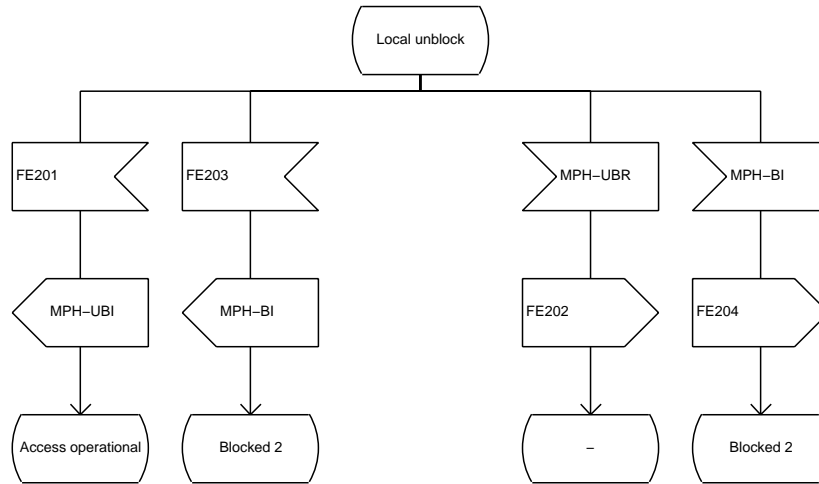


State
AN1.02 (ISDN PRA port)



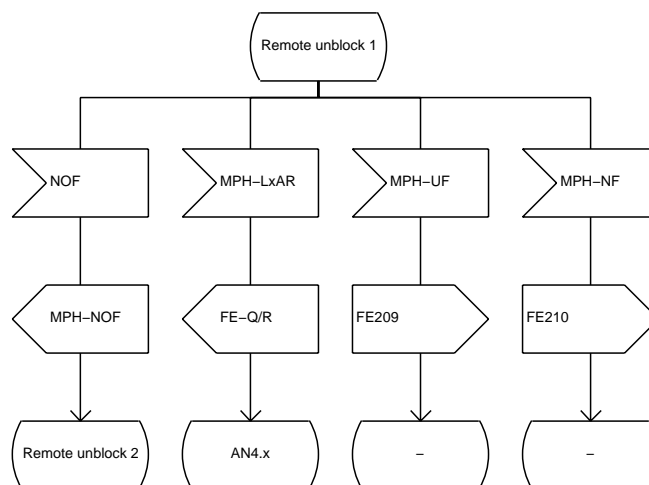
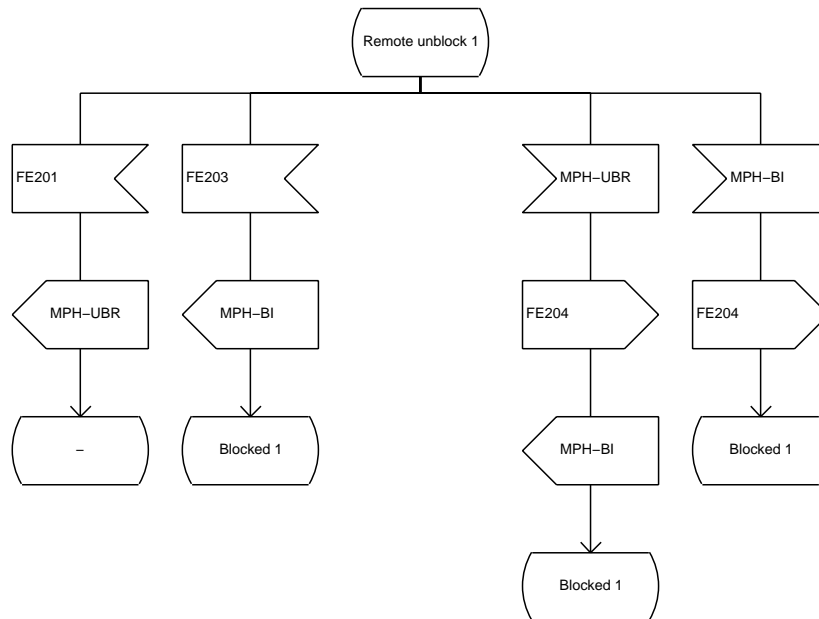


State
AN1.1 (ISDN PRA port)



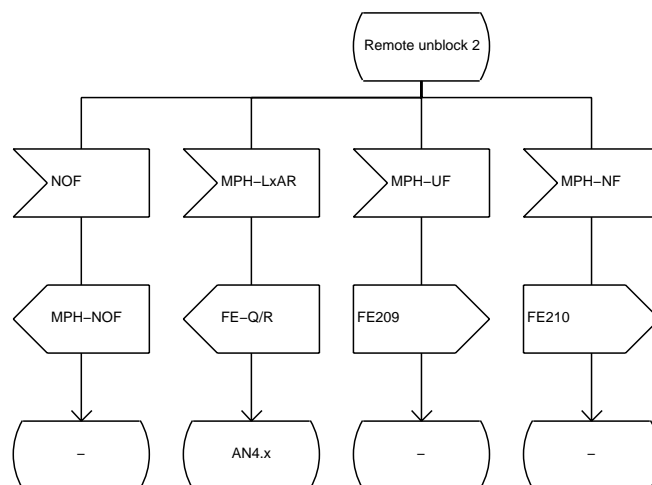
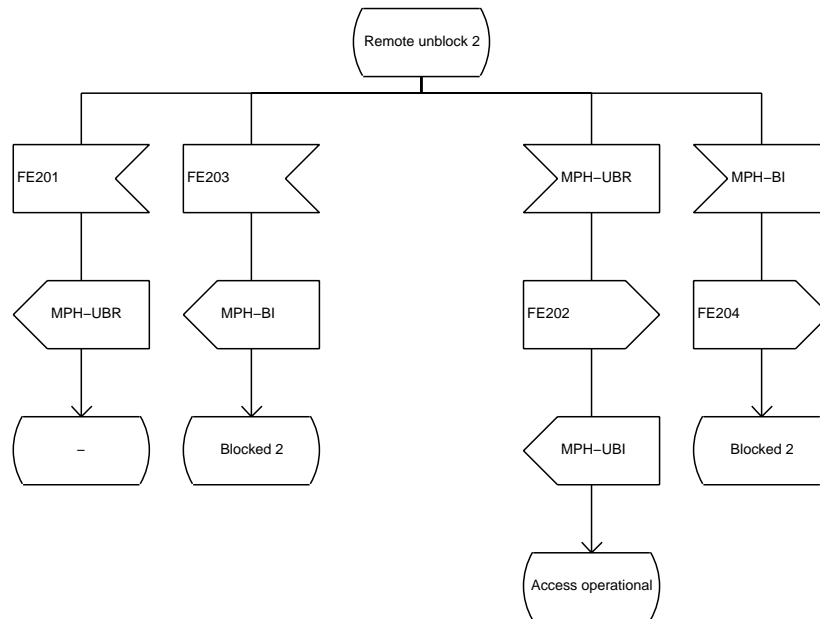


State
AN1.21 (ISDN PRA port)



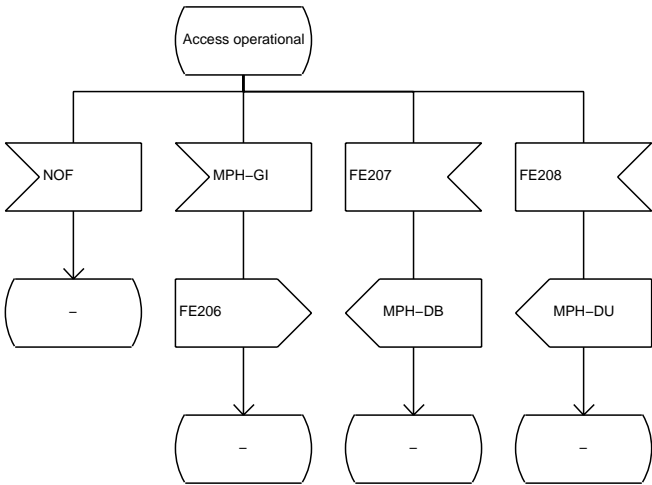
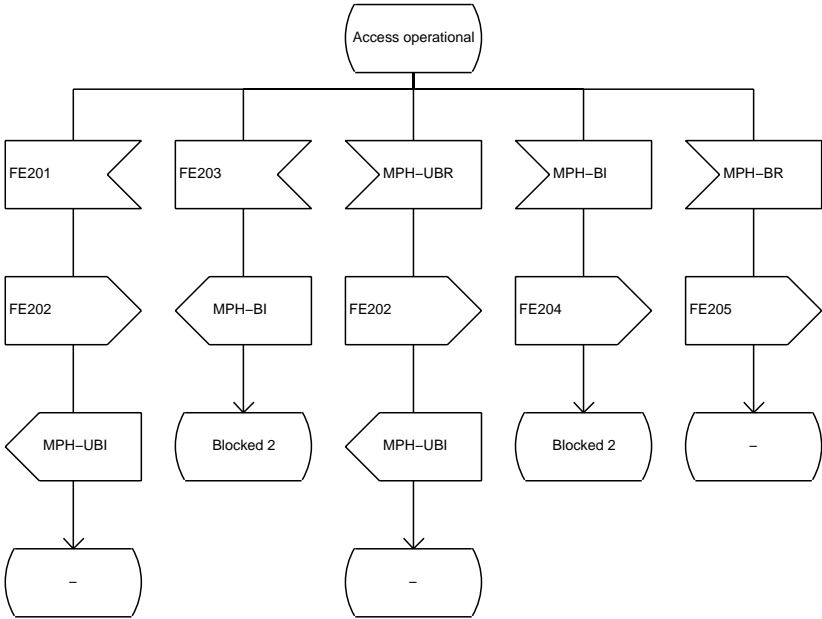


State
AN1.22 (ISDN PRA port)



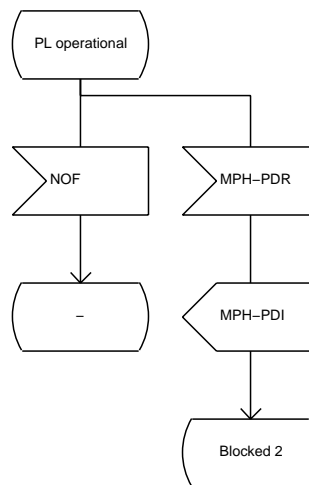
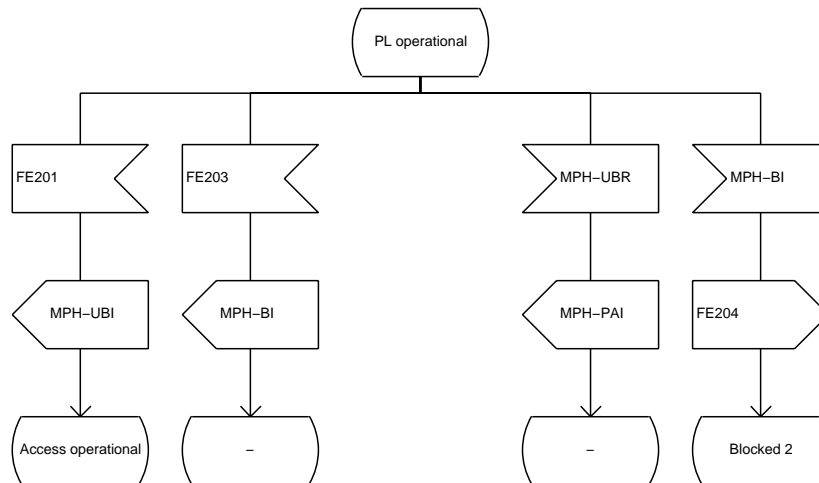


State
AN2.0 (ISDN PRA port)



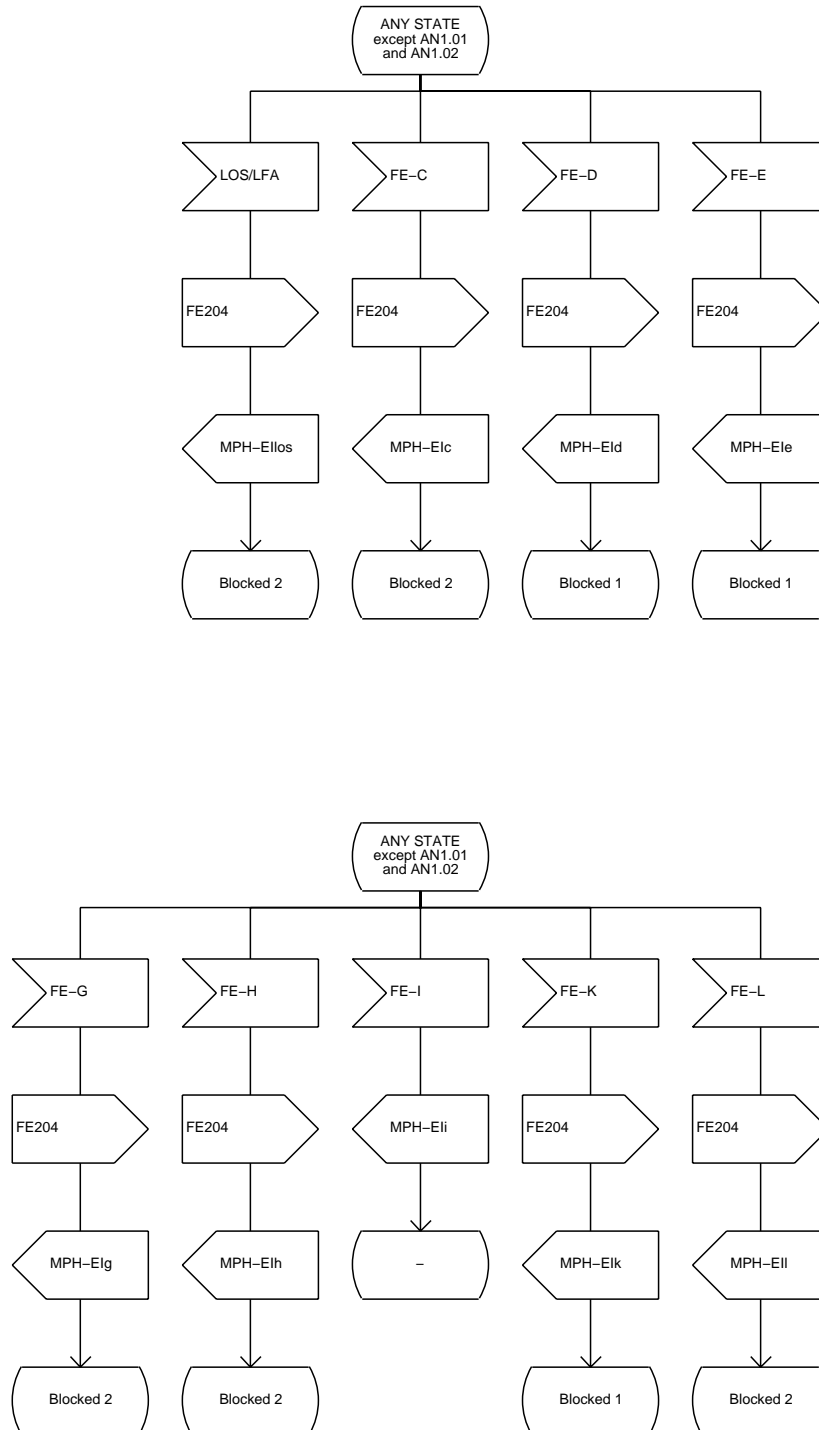


State
AN3.0 (ISDN PRA port)





Any State
except AN1.01
and AN1.02

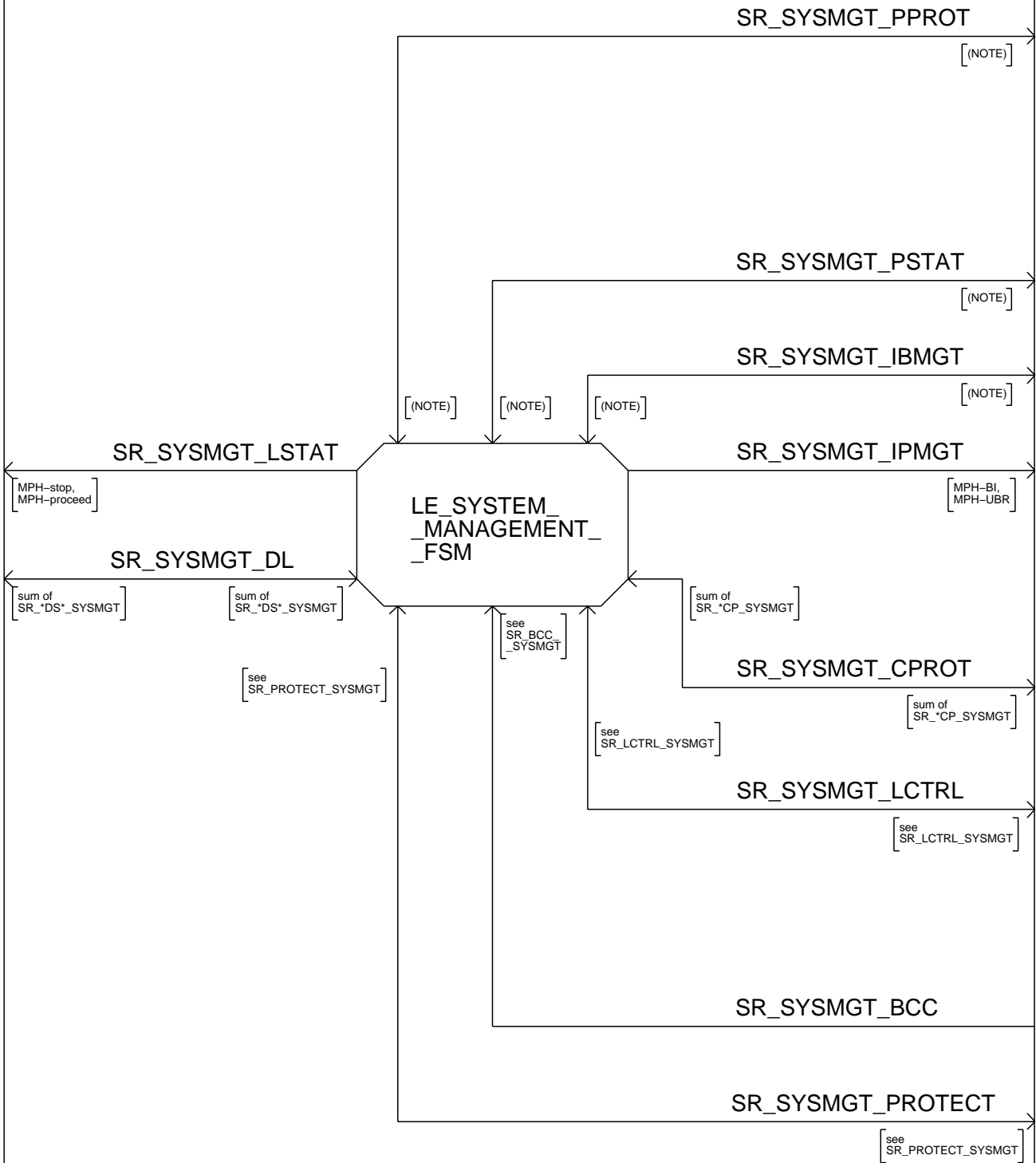


Block LE_SYSTEM_MANAGEMENT

1(1)

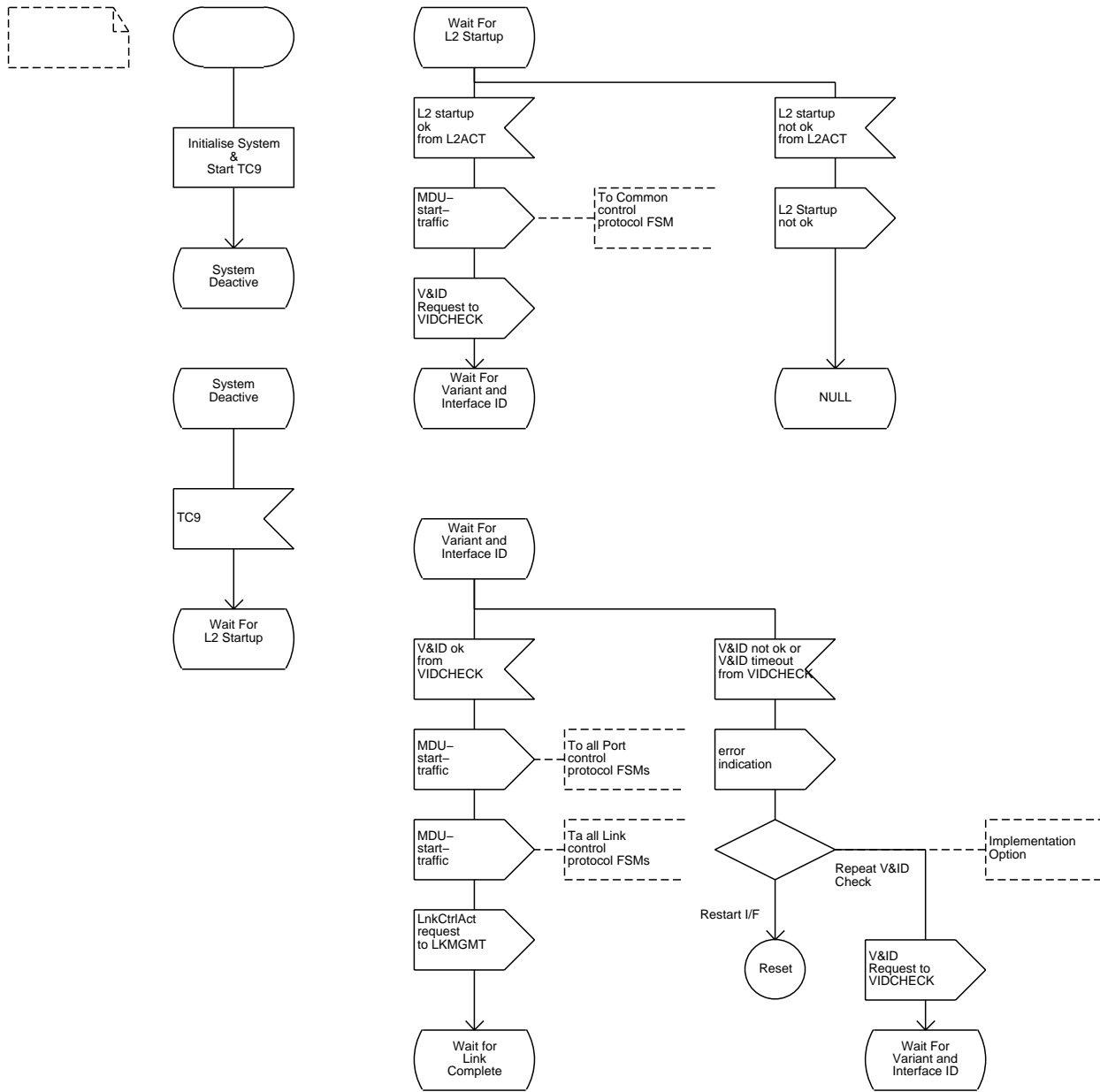


NOTE:
see ETS 300 324-1 [8]



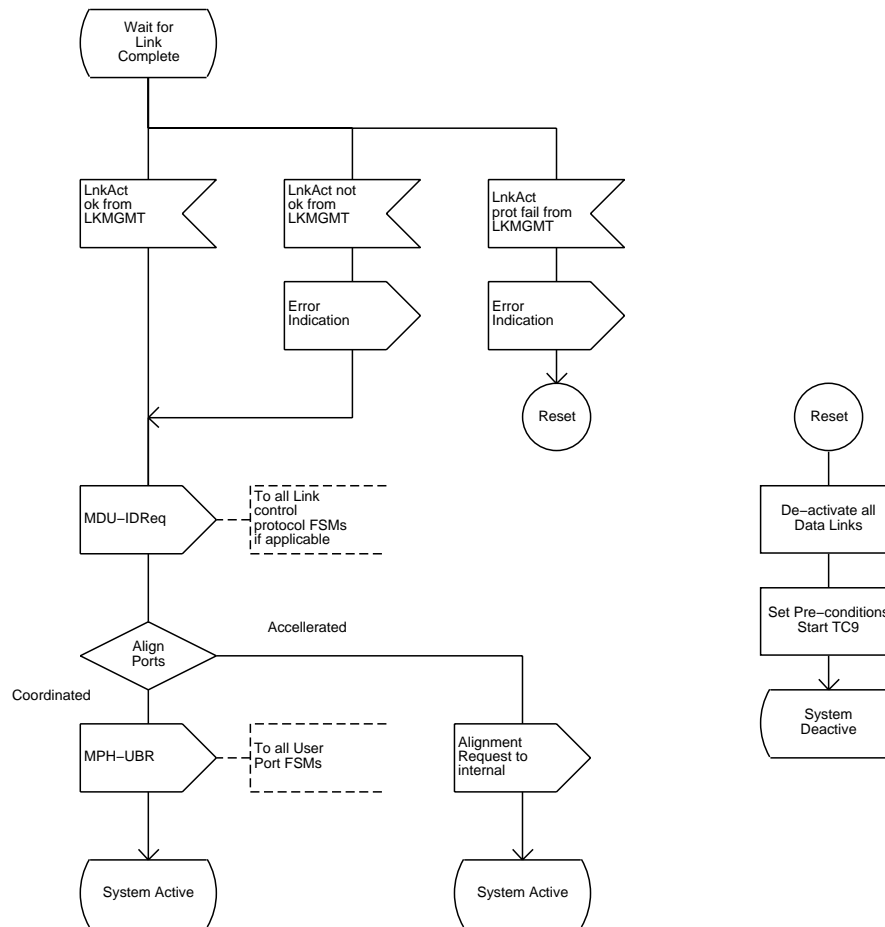
Process Startup

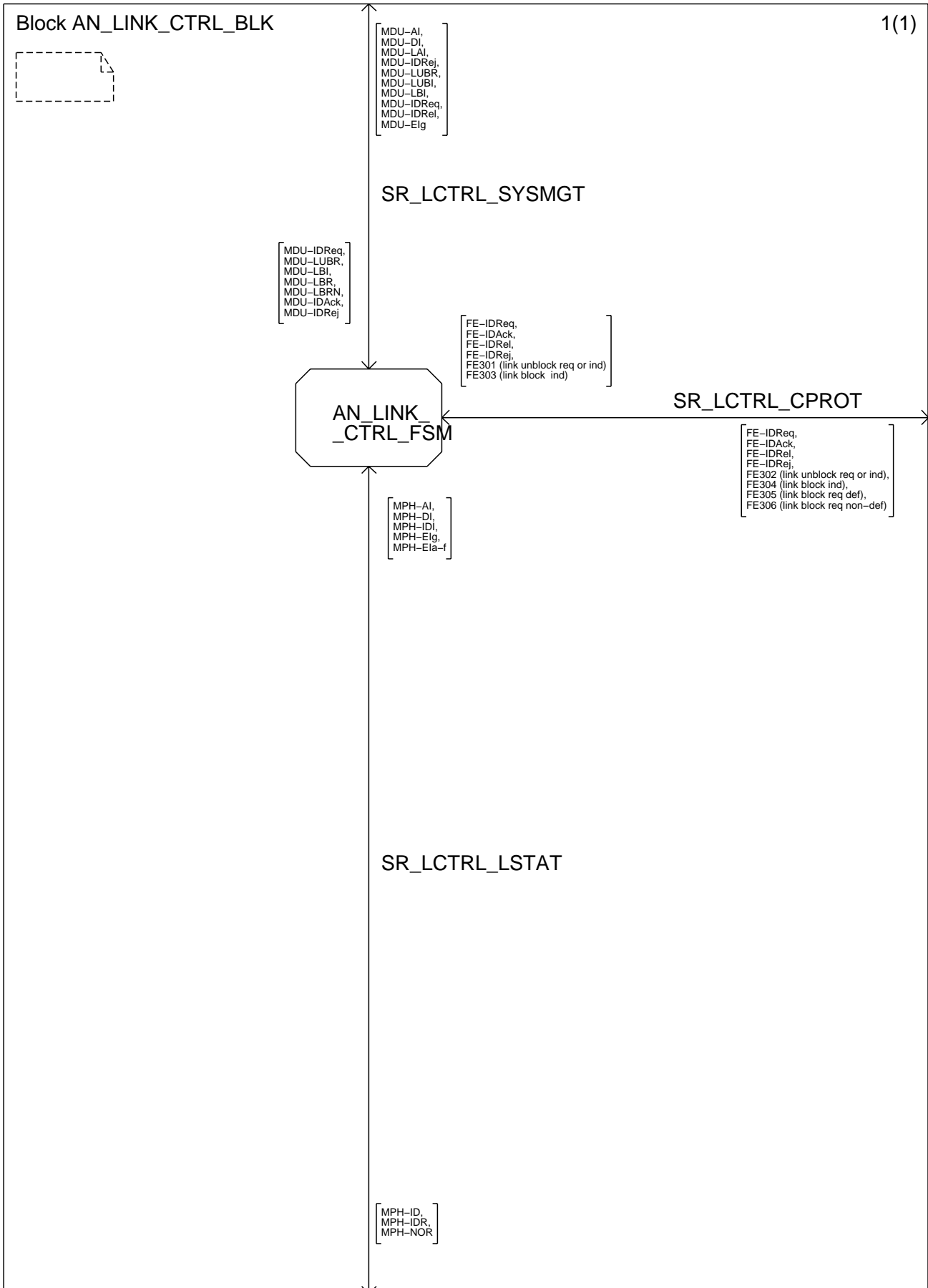
1(2)



Process Startup

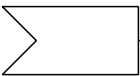
2(2)







AN_LINK_CTRL_FSM
message direction description



MDU primitives received from AN_System_Management



MDU primitives sent to AN_System_Management



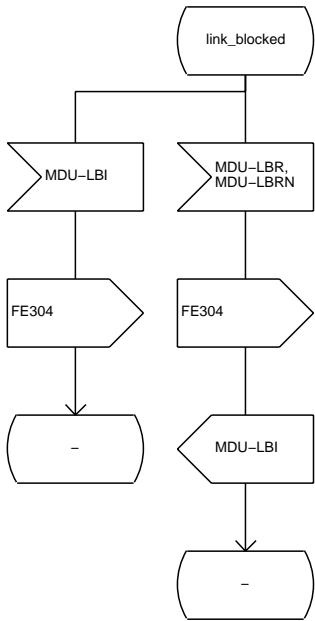
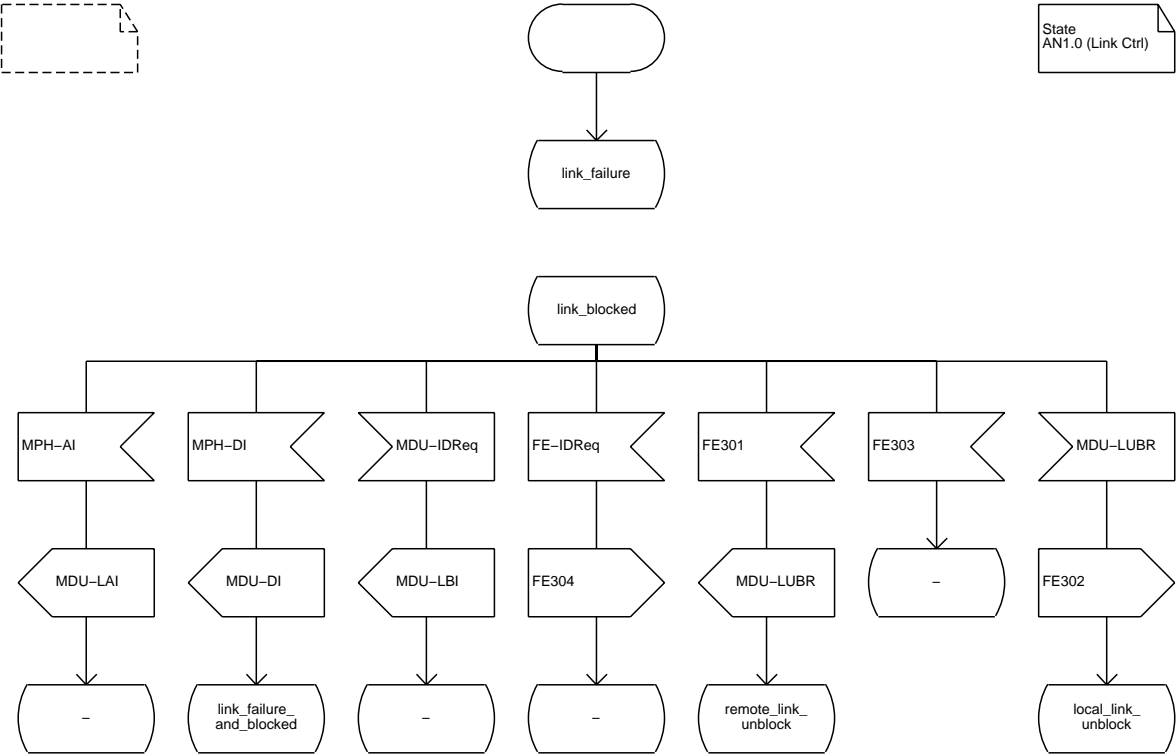
MPH primitives received from AN_V5_link_status_FSM
FE received from peer entity in LE via AN_LINK_CONTROL_PROTOCOL



MPH primitives sent to AN_V5_link_status_FSM
FE sent to peer entity in LE via AN_LINK_CONTROL_PROTOCOL



State
AN1.0 (Link Ctrl)

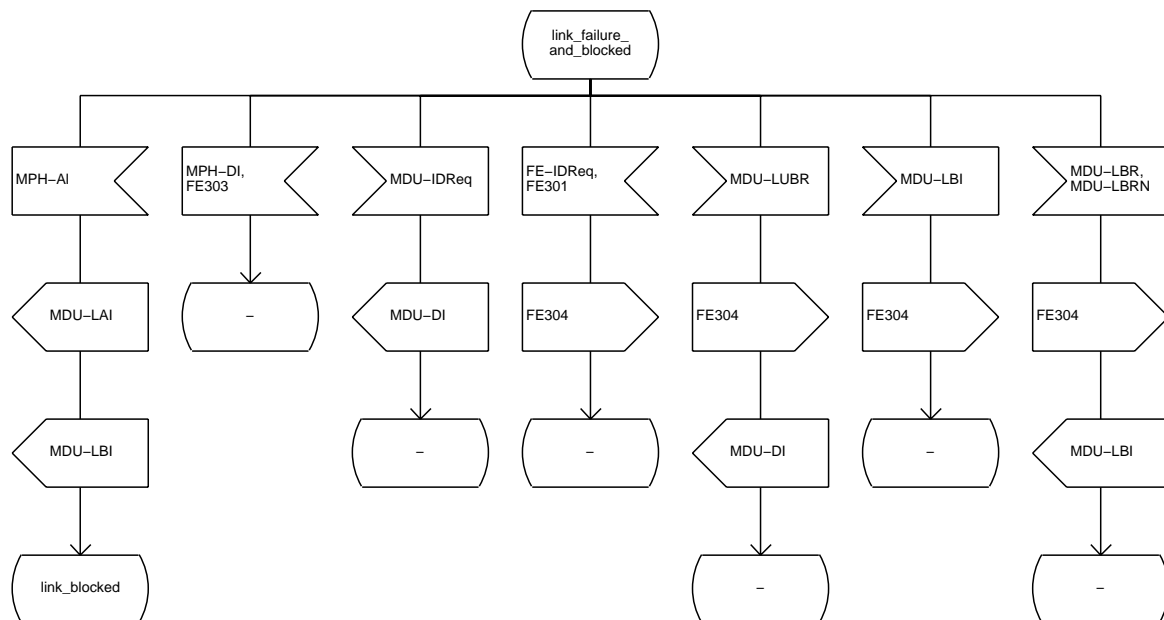
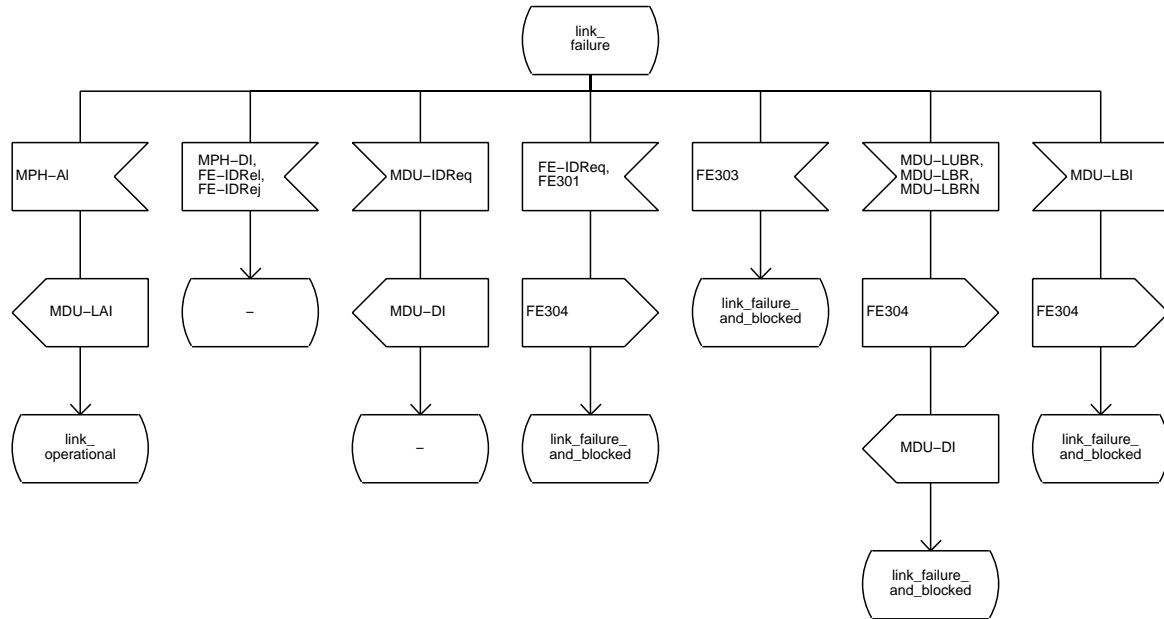


Process AN_LINK_CTRL_FSM

3(8)



State
AN0.1 and AN0.2
(Link Ctrl)

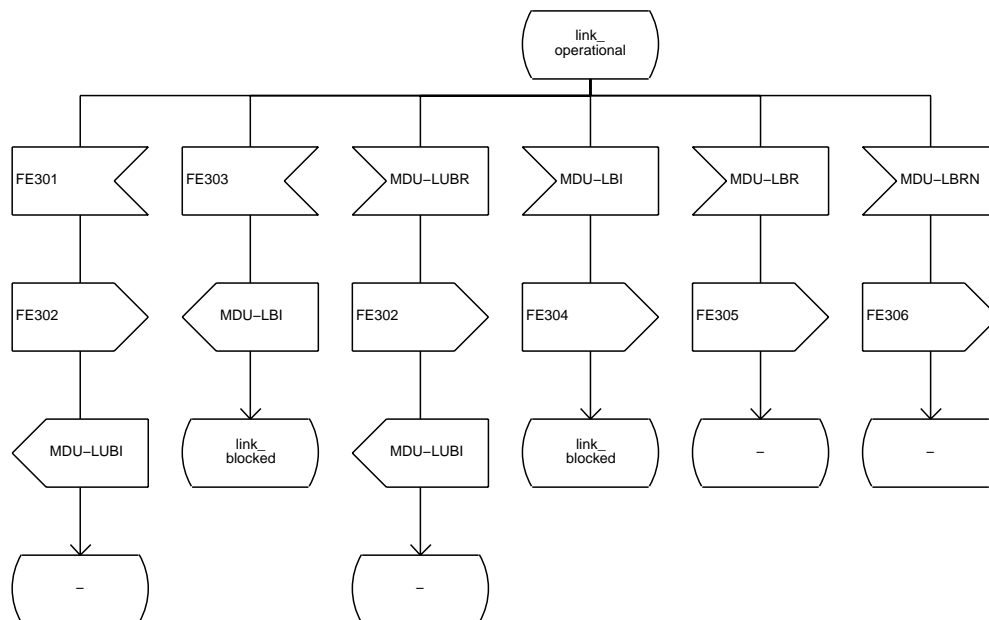
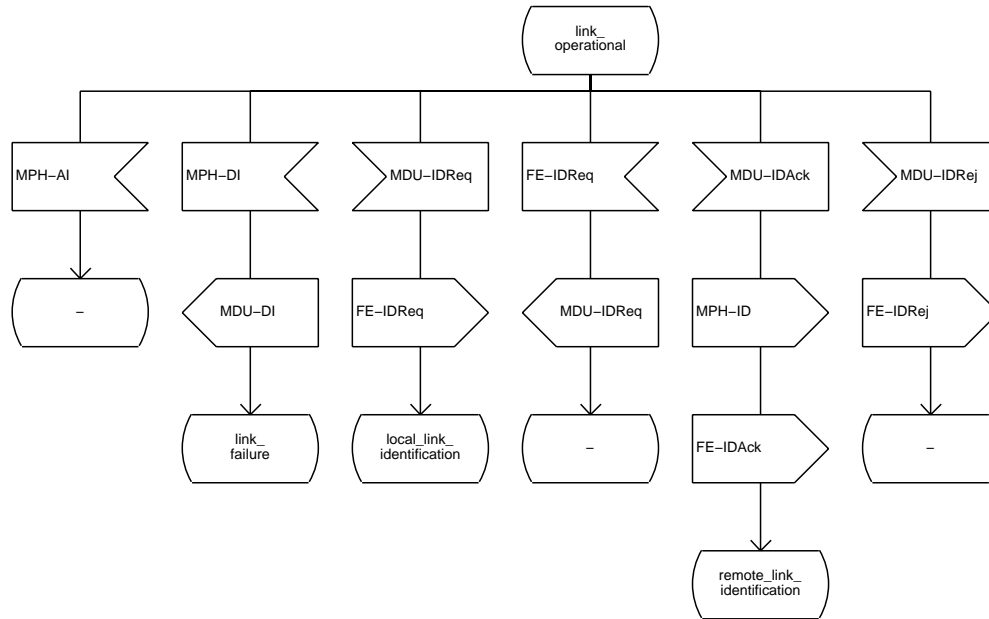


Process AN_LINK_CTRL_FSM

4(8)

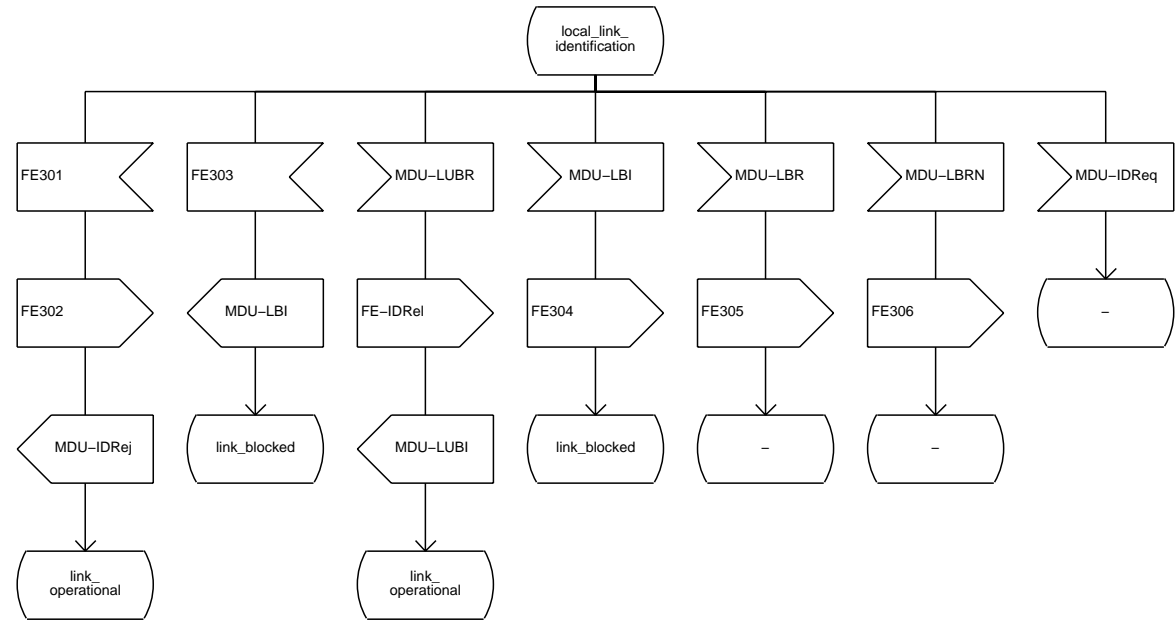
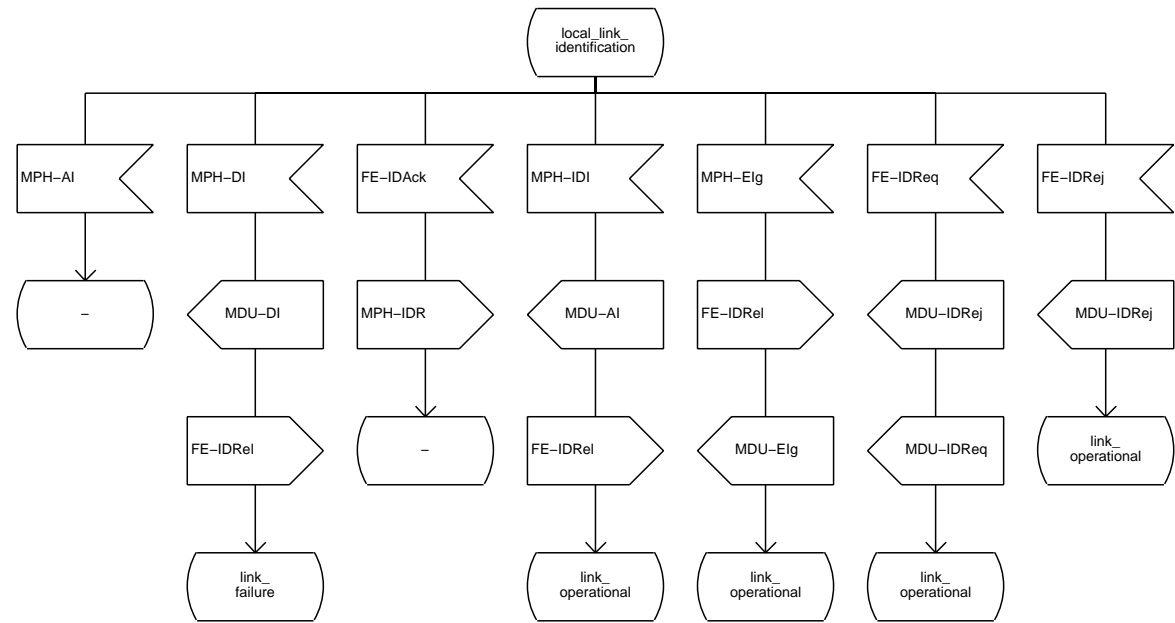


State
AN2.0 (Link Ctrl)





State
AN2.2 (Link Ctrl)

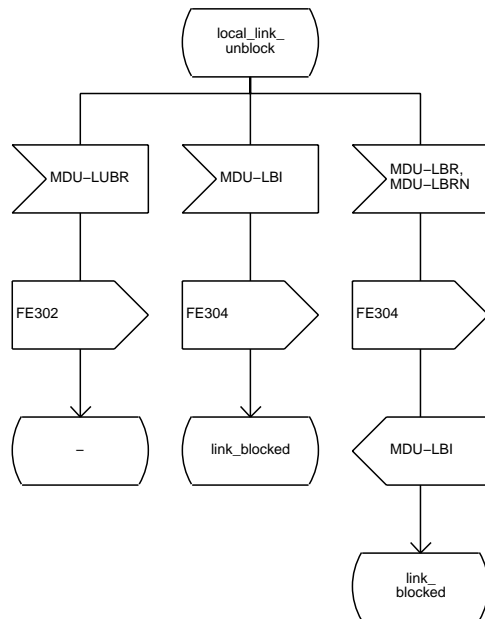
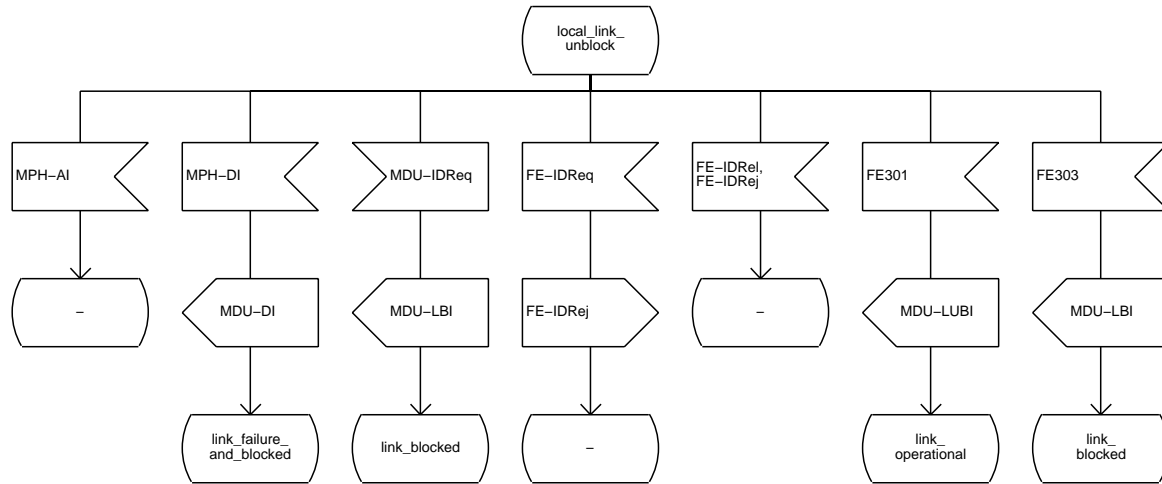


Process AN_LINK_CTRL_FSM

6(8)

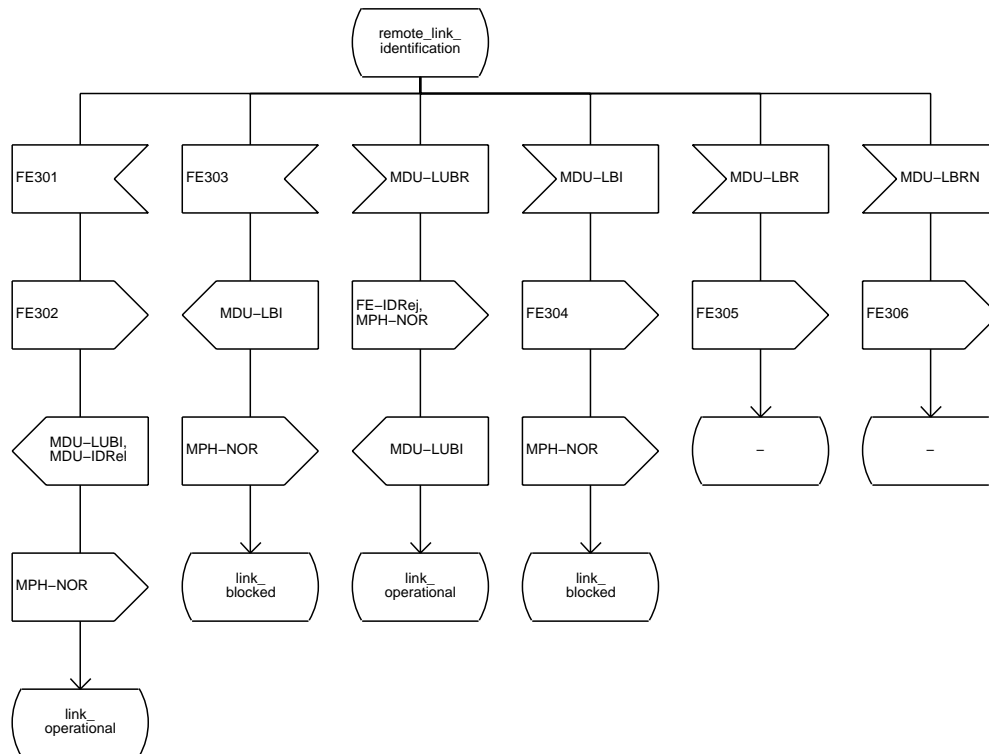
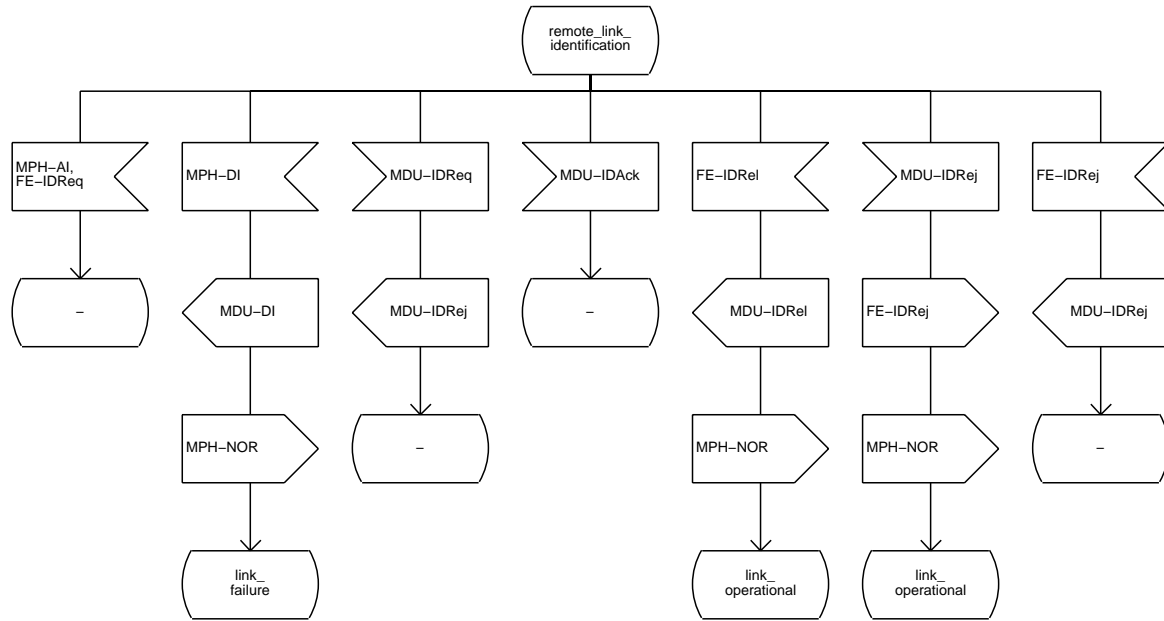


State
AN1.1 (Link Ctrl)





State
AN2.1 (Link Ctrl)

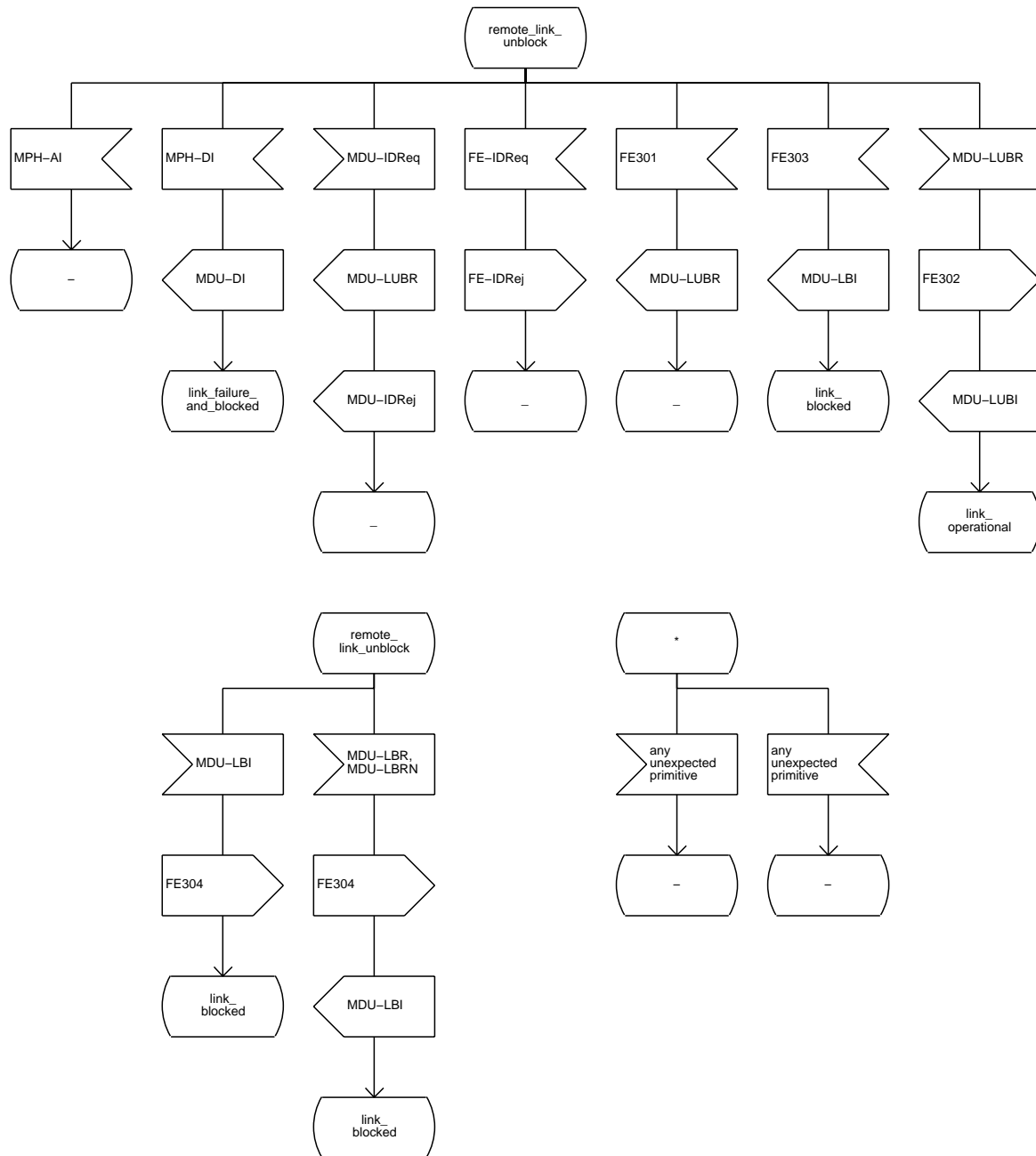


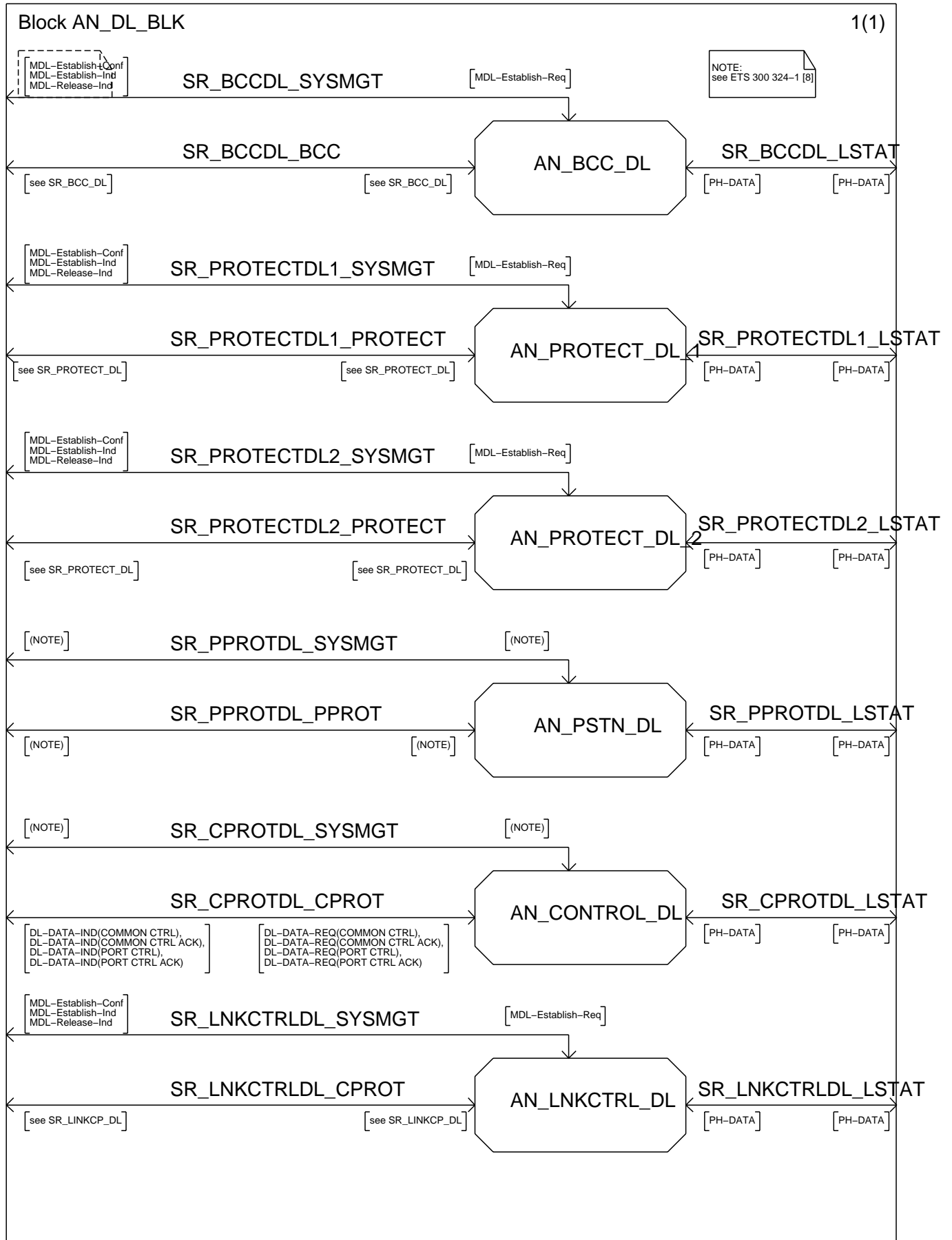
Process AN_LINK_CTRL_FSM

8(8)



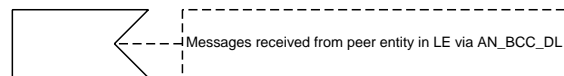
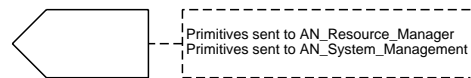
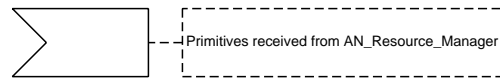
State
AN1.2 and any
state (Link Ctrl)





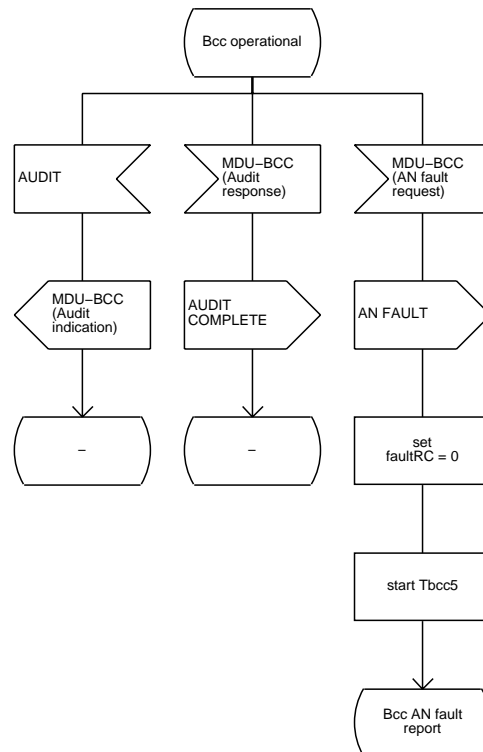
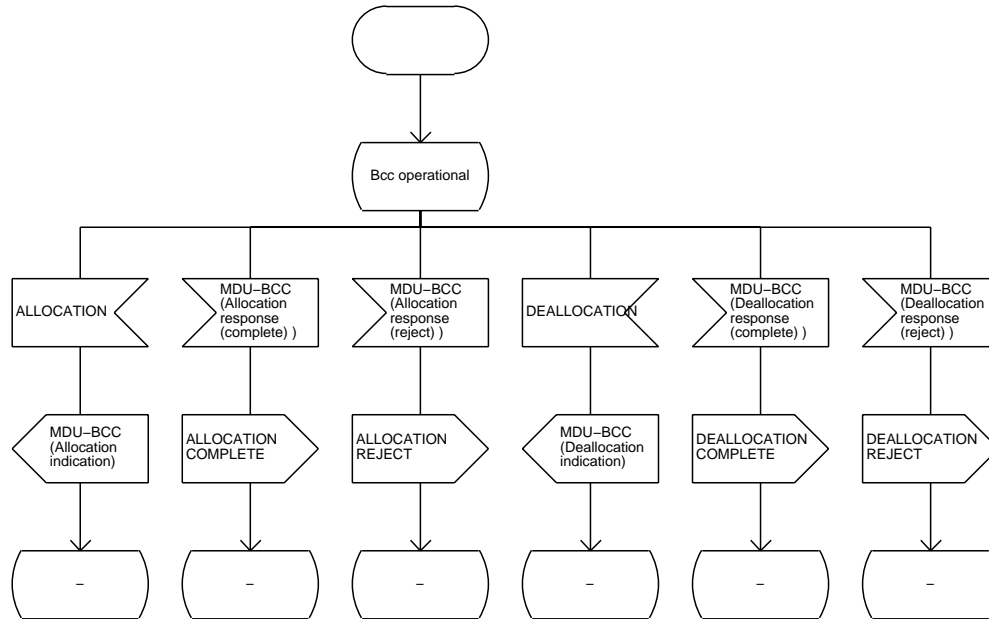


AN_BCC_PROTOCOL_FSM
message direction description



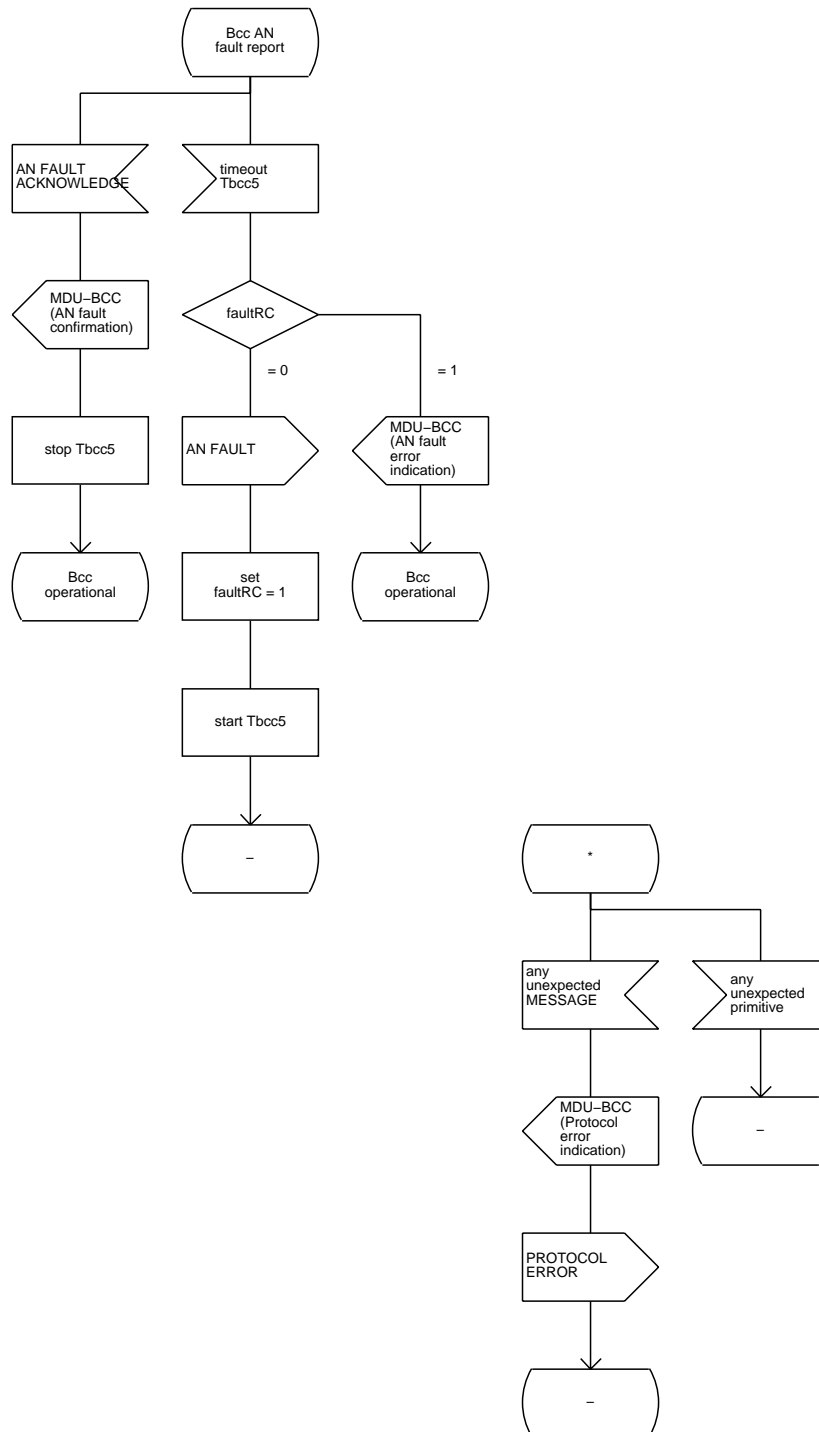


State
ANBcc0 (BCC)



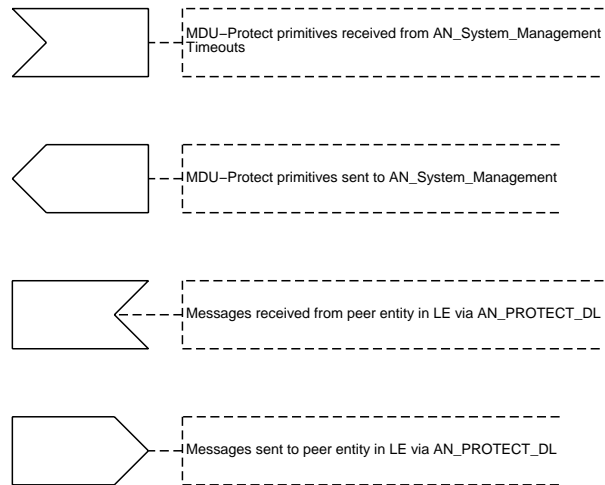


State
ANBcc1(BCC)



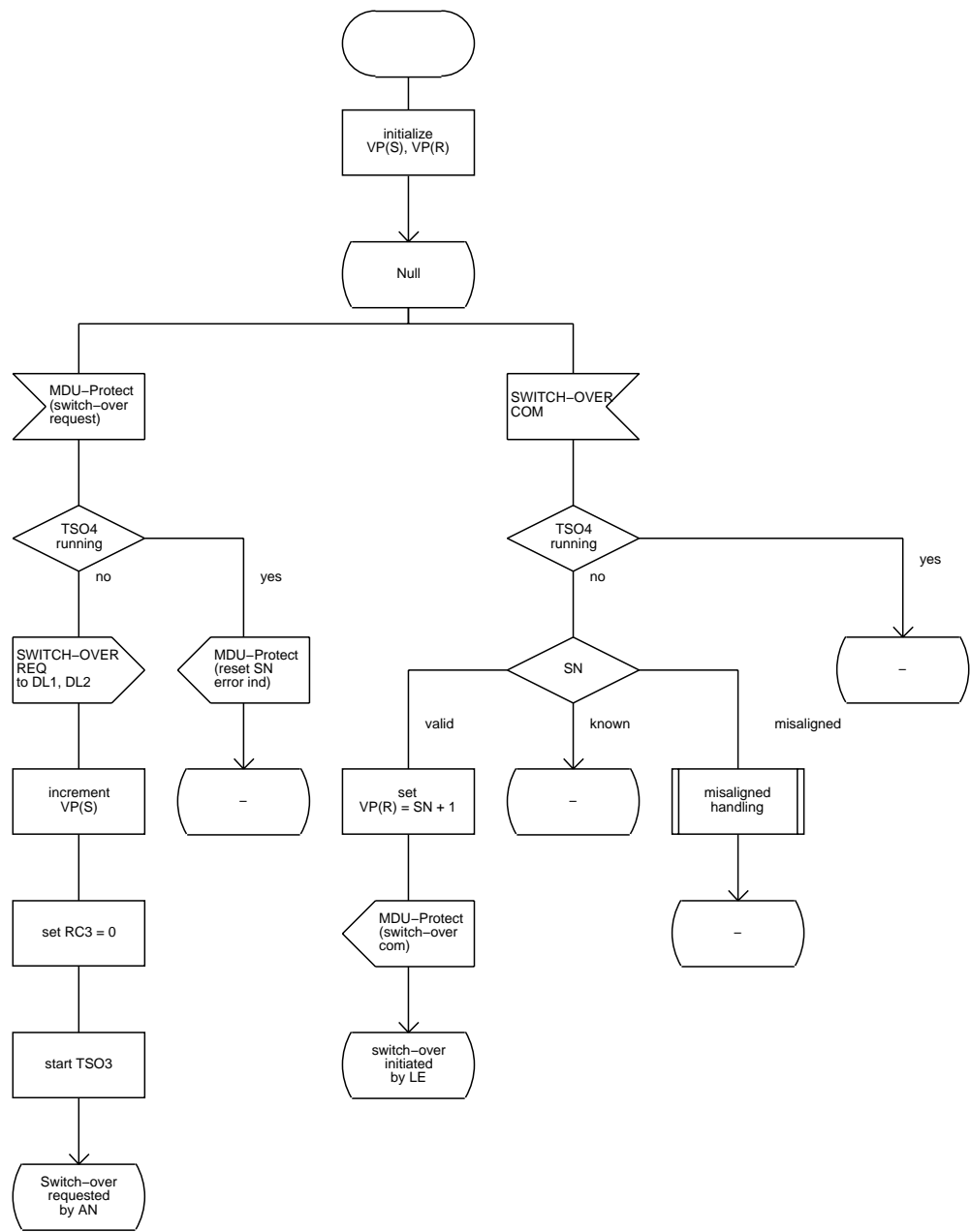


AN_PROTECT_FSM
message direction description

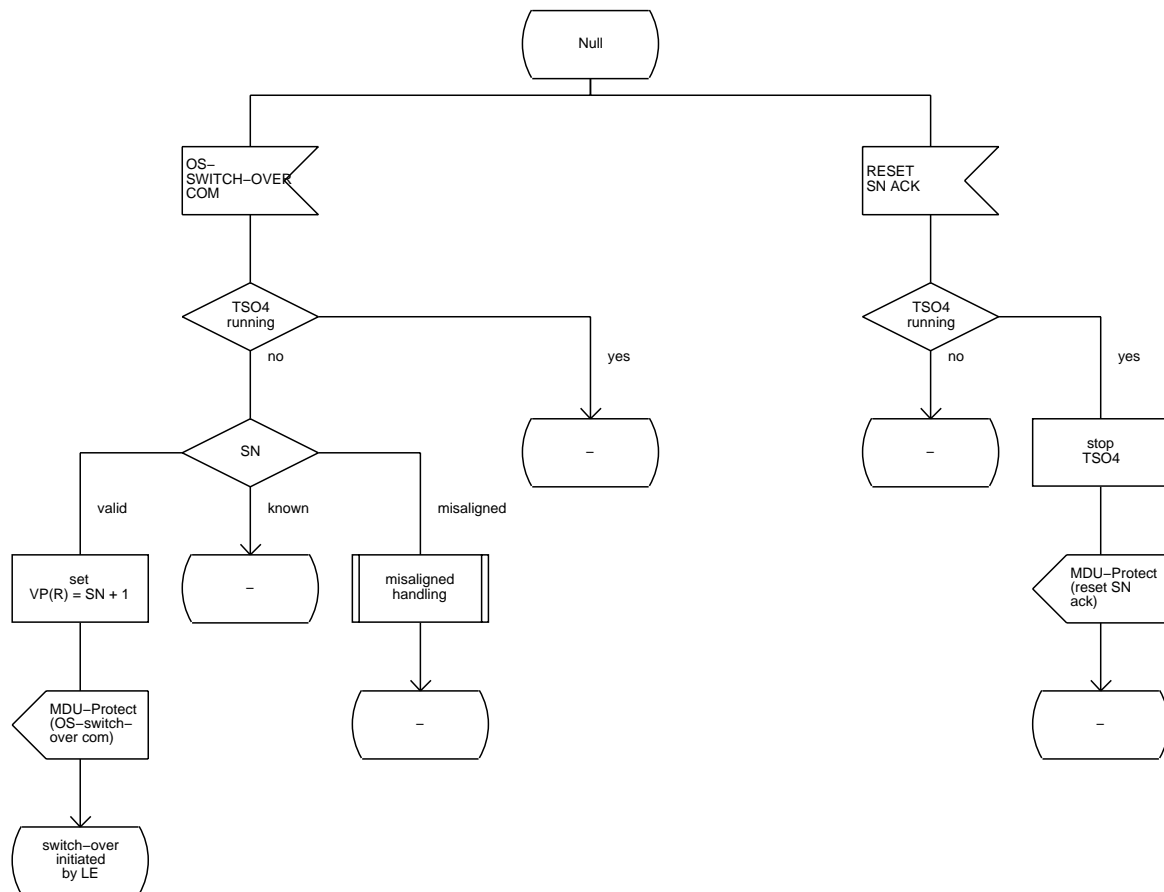




State
SOAN0 (Protection Protocol)



State
SOAN0 (Protection Protocol)

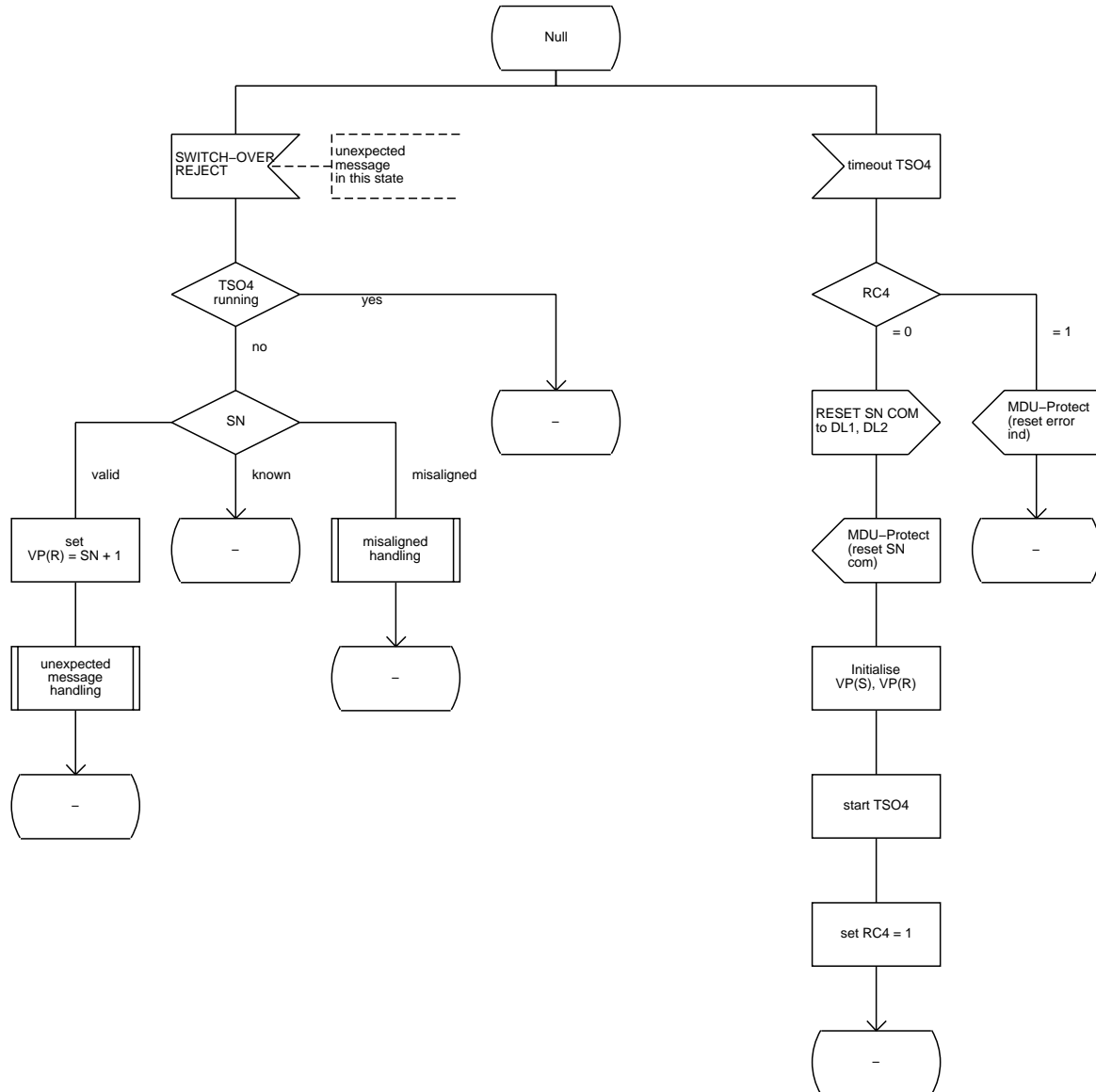


Process AN_PROTECT_FSM

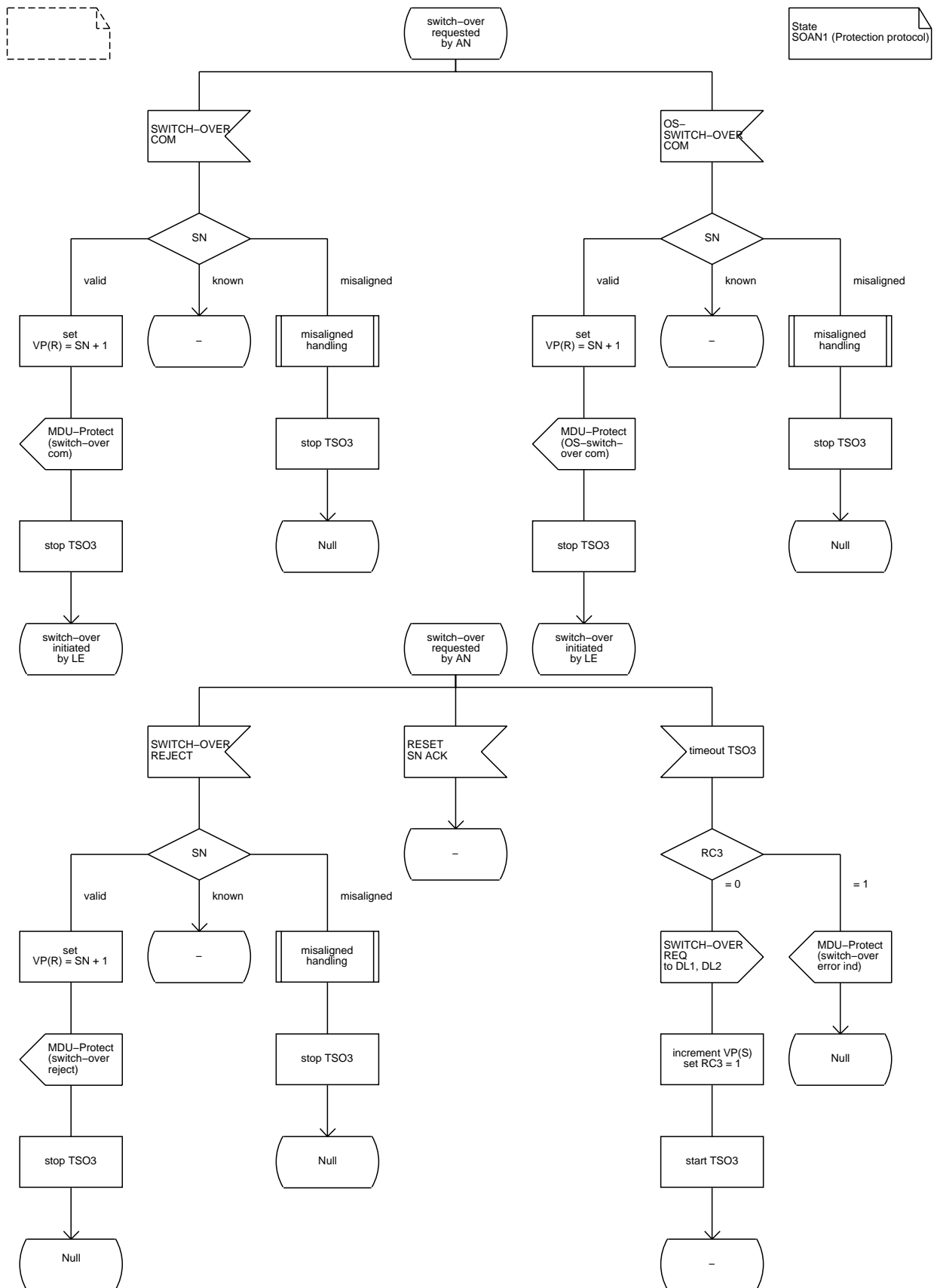
4(7)



State
SOAN0 (Protection Protocol)



5(7)

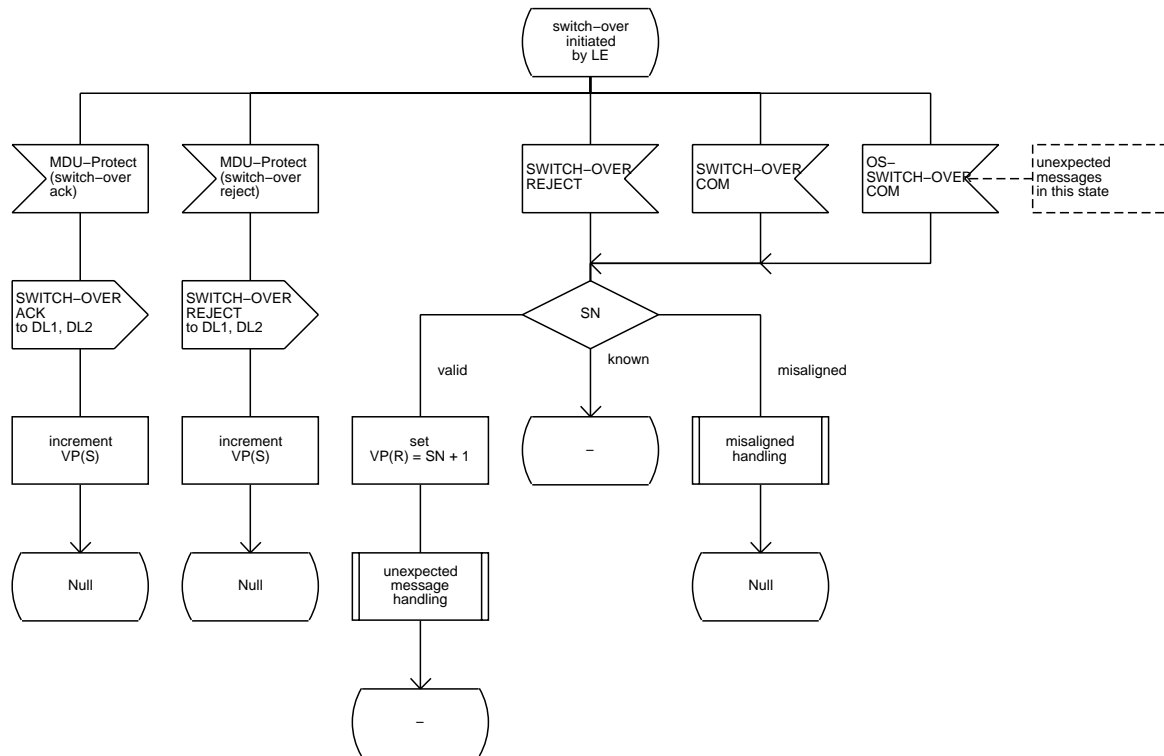


Process AN_PROTECT_FSM

6(7)



State
SOAN2 (Protection Protocol)

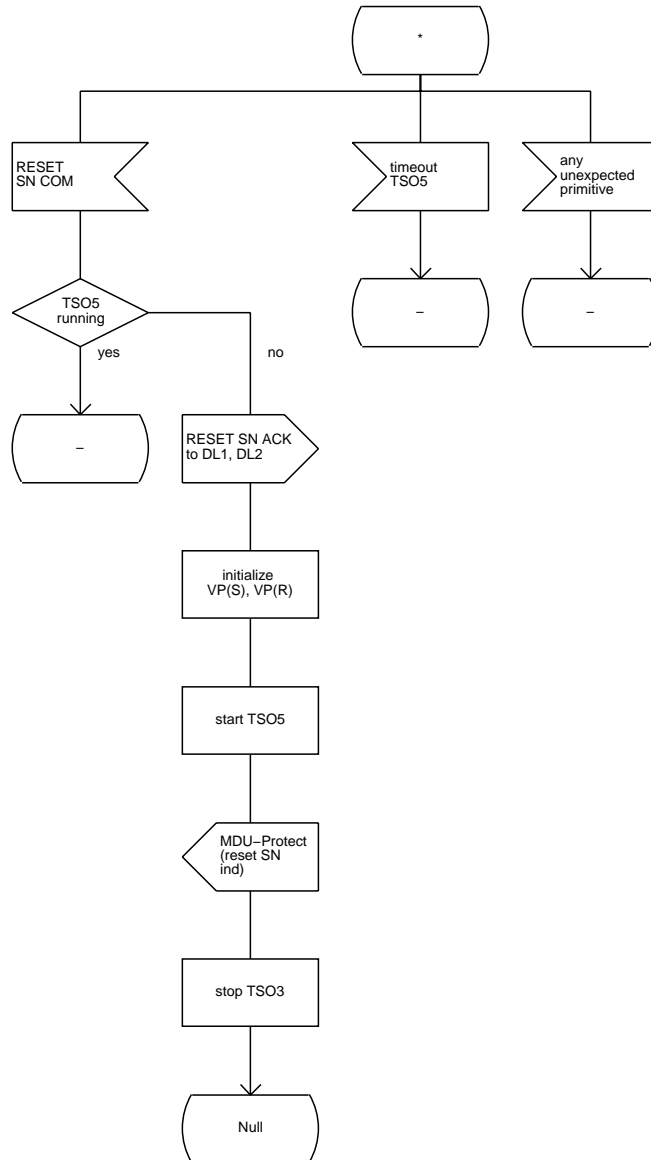


Process AN_PROTECT_FSM

7(7)

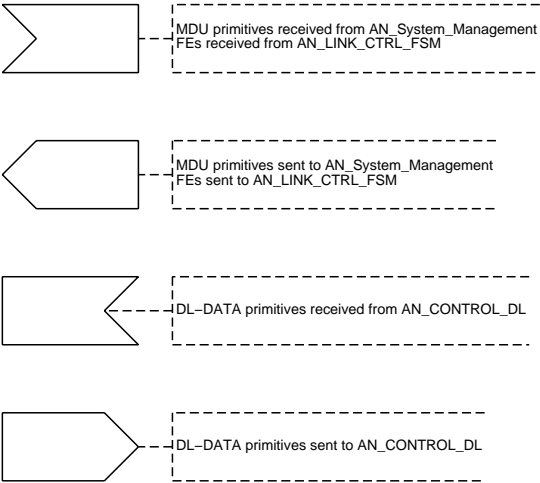


Any State
(Protection Protocol)





AN_LINK_CONTROL_PROTOCOL
message direction description

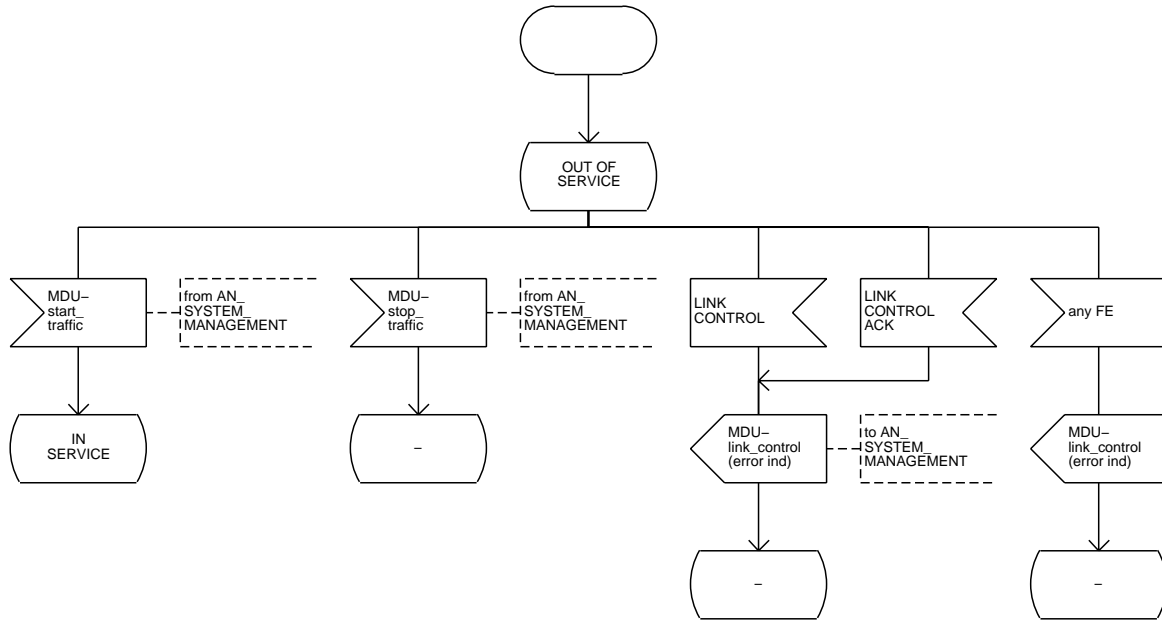


Process AN_LINK_CONTROL_PROTOCOL

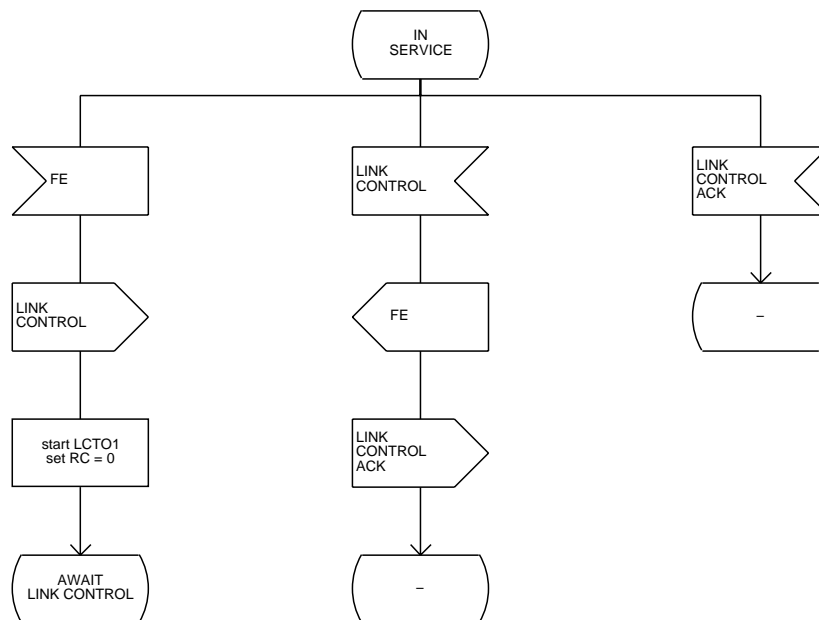
2(3)



State
AN0 (LINK_CTRL_PROT)



State
AN1(LINK_CTRL_PROT)

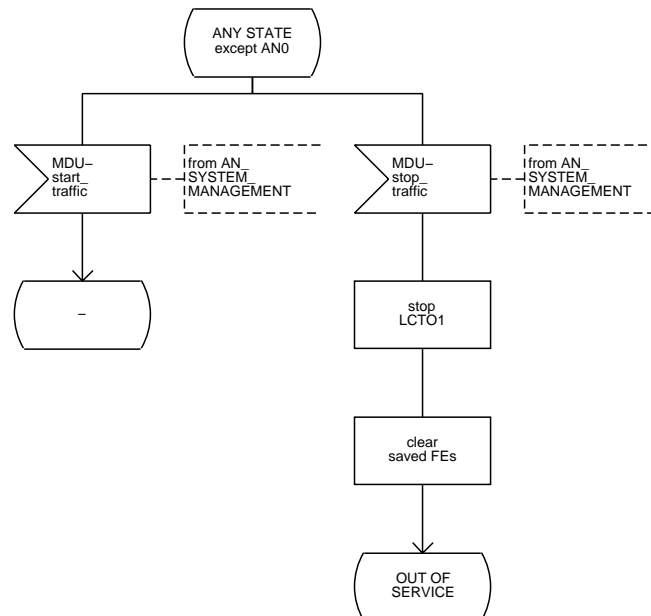
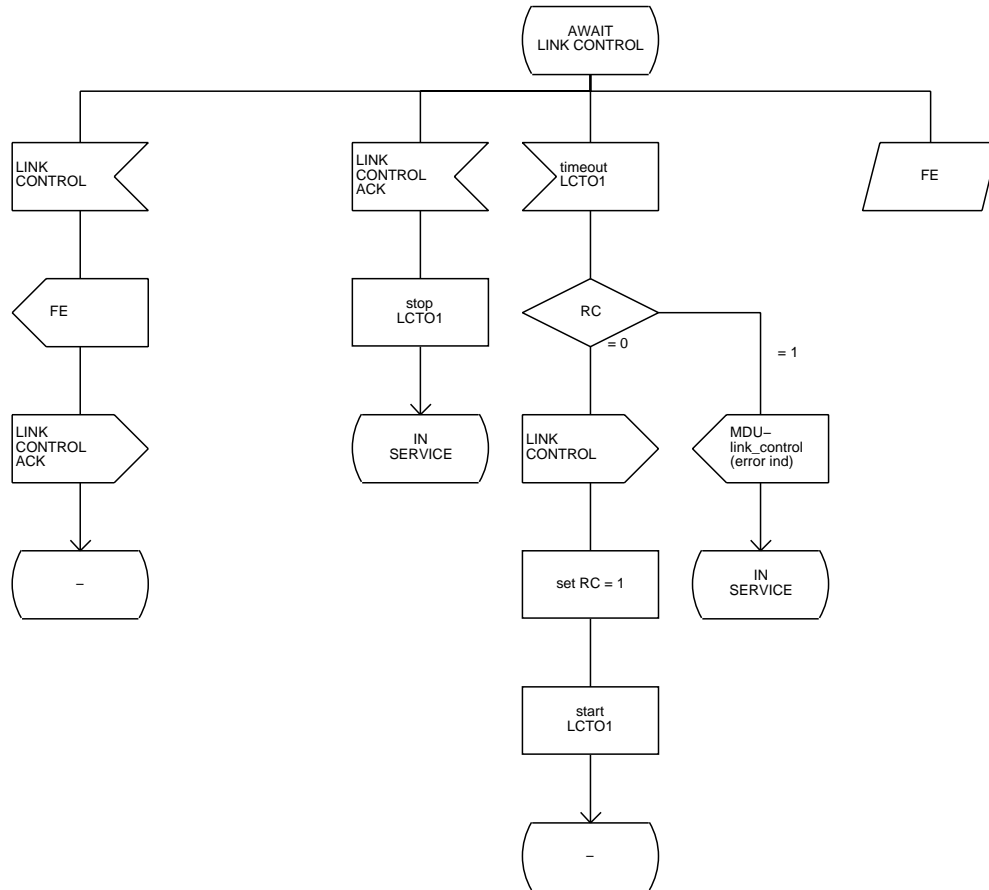


Process AN_LINK_CONTROL_PROTOCOL

3(3)



State
AN2 (LINK_CTRL_PROT)



Any state
except AN0
(LINK_CTRL_PROT)

Block AN_PROTECT_BLK

1(1)



[
MDU-Protect (switch-over com),
MDU-Protect (switch-over error ind),
MDU-Protect (switch-over reject ind; cause),
MDU-Protect (OS-switch-over com),
MDU-Protect (reset SN com),
MDU-Protect (reset SN ack),
MDU-Protect (reset SN ind),
MDU-Protect (reset SN error ind),
MDU-Protect (Protocol error ind)
]

SR_PROTECT_SYSMGT

[
MDU-Protect (switch-over req),
MDU-Protect (switch-over ack),
MDU-Protect (switch-over reject ind; cause)
]

AN_PROTECT_FSM

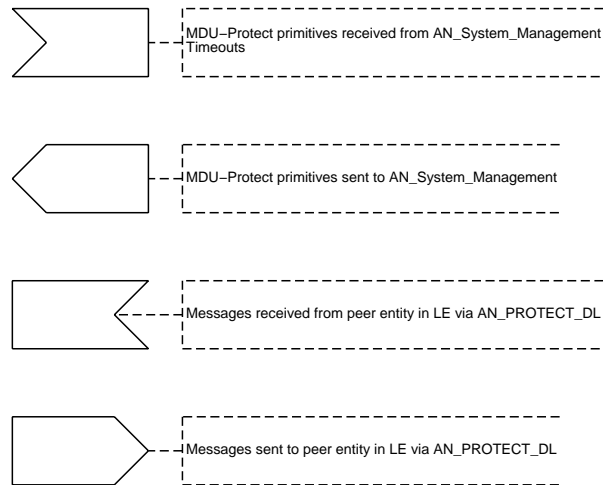
SR_PROTECT_DL

[
DL-DATA-IND (SWITCH-OVER COM),
DL-DATA-IND (OS-SWITCH-OVER COM),
DL-DATA-IND (SWITCH-OVER REJECT),
DL-DATA-IND (RESET SN COM),
DL-DATA-IND (RESET SN ACK)
]

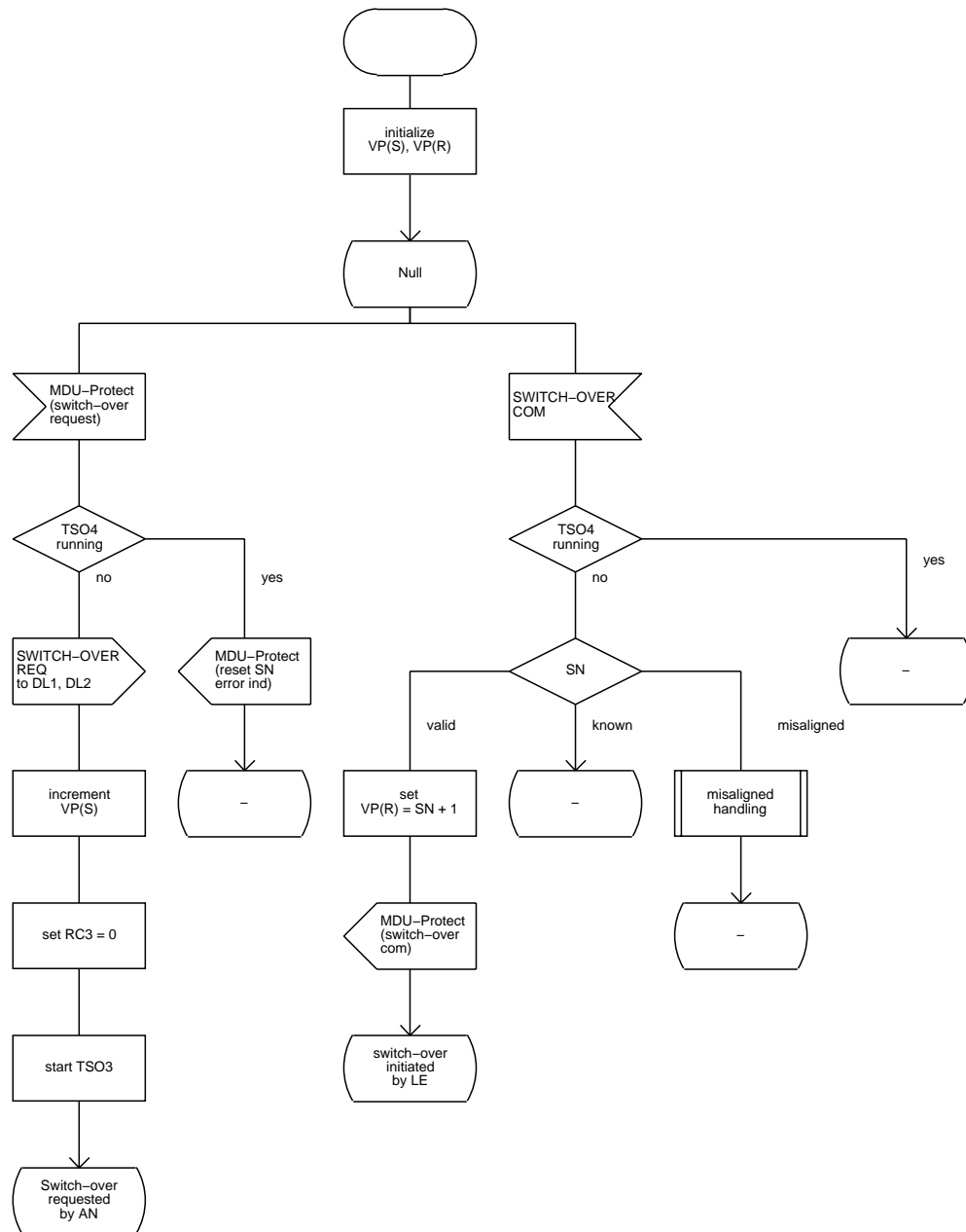
[
DL-DATA-REQ (SWITCH-OVER REQ),
DL-DATA-REQ (SWITCH-OVER ACK),
DL-DATA-REQ (SWITCH-OVER REJECT),
DL-DATA-REQ (PROTOCOL ERROR),
DL-DATA-REQ (RESET SN COM),
DL-DATA-REQ (RESET SN ACK)
]



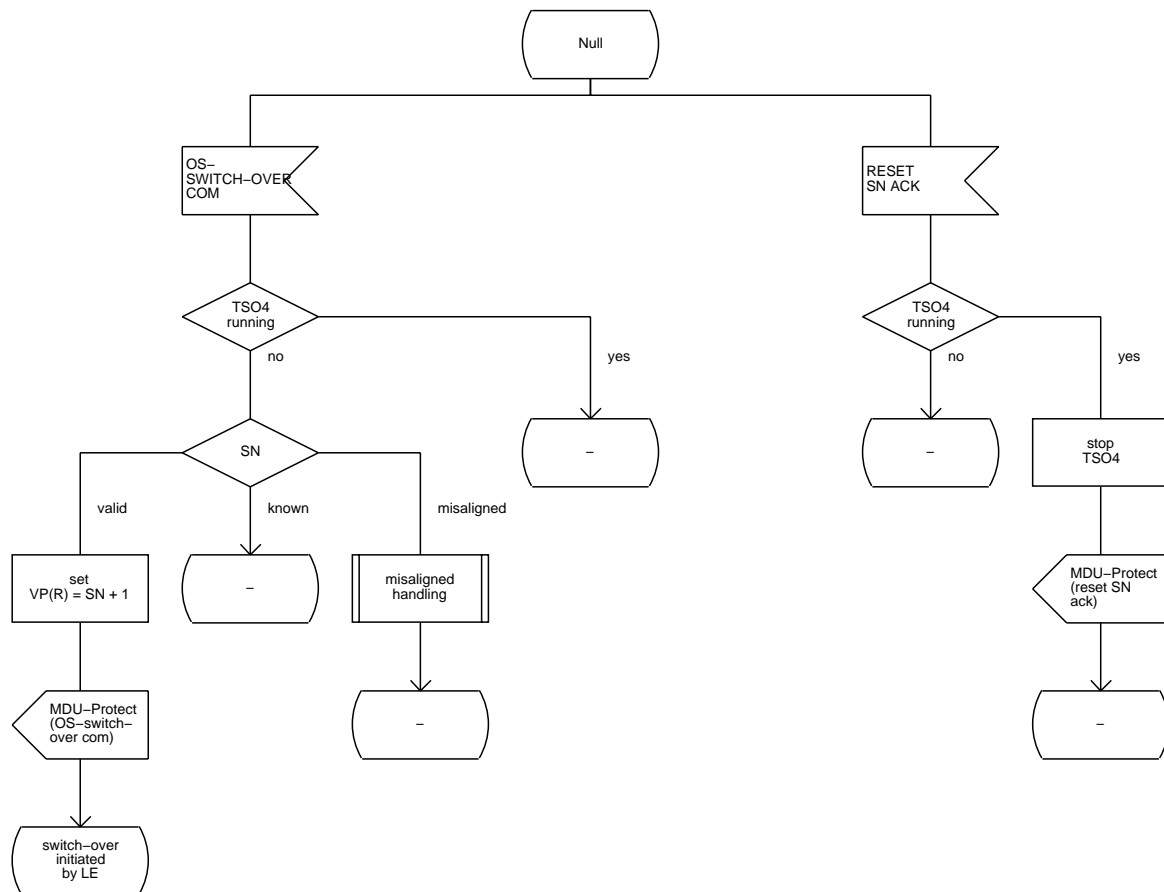
AN_PROTECT_FSM
message direction description



State
SOAN0 (Protection Protocol)



State
SOAN0 (Protection Protocol)

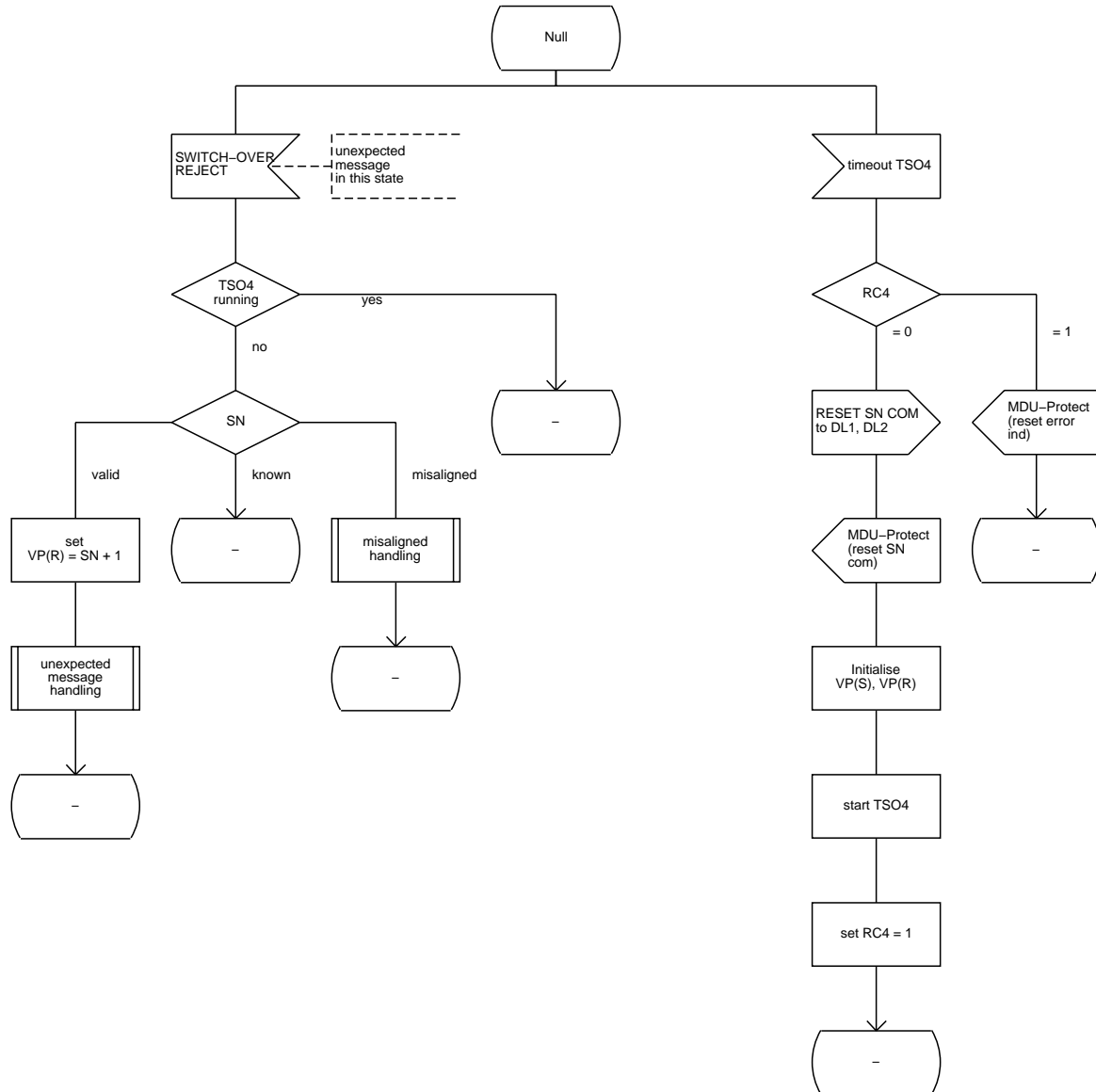


Process AN_PROTECT_FSM

4(7)

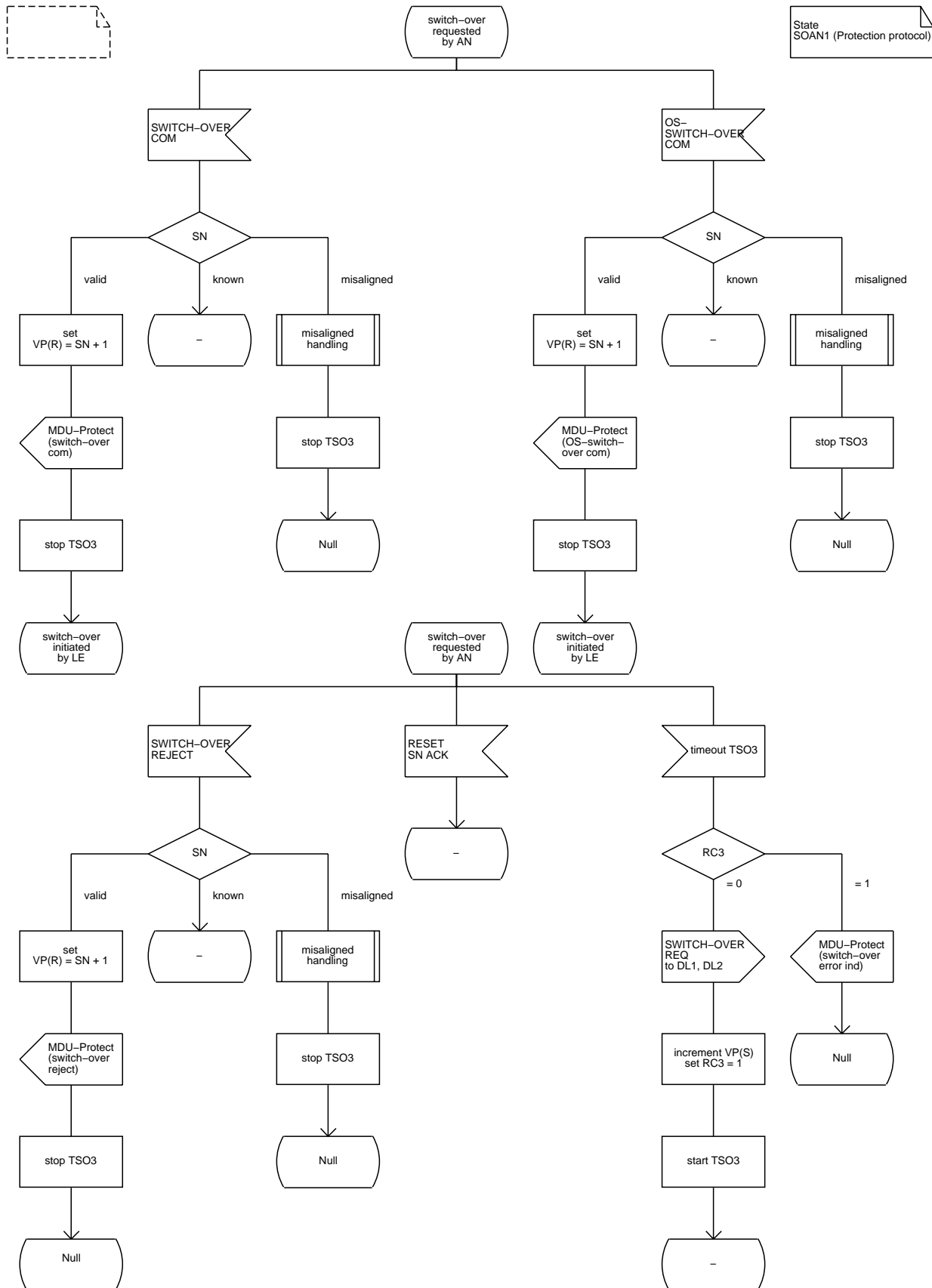


State
SOAN0 (Protection Protocol)



Process AN_PROTECT_FSM

5(7)

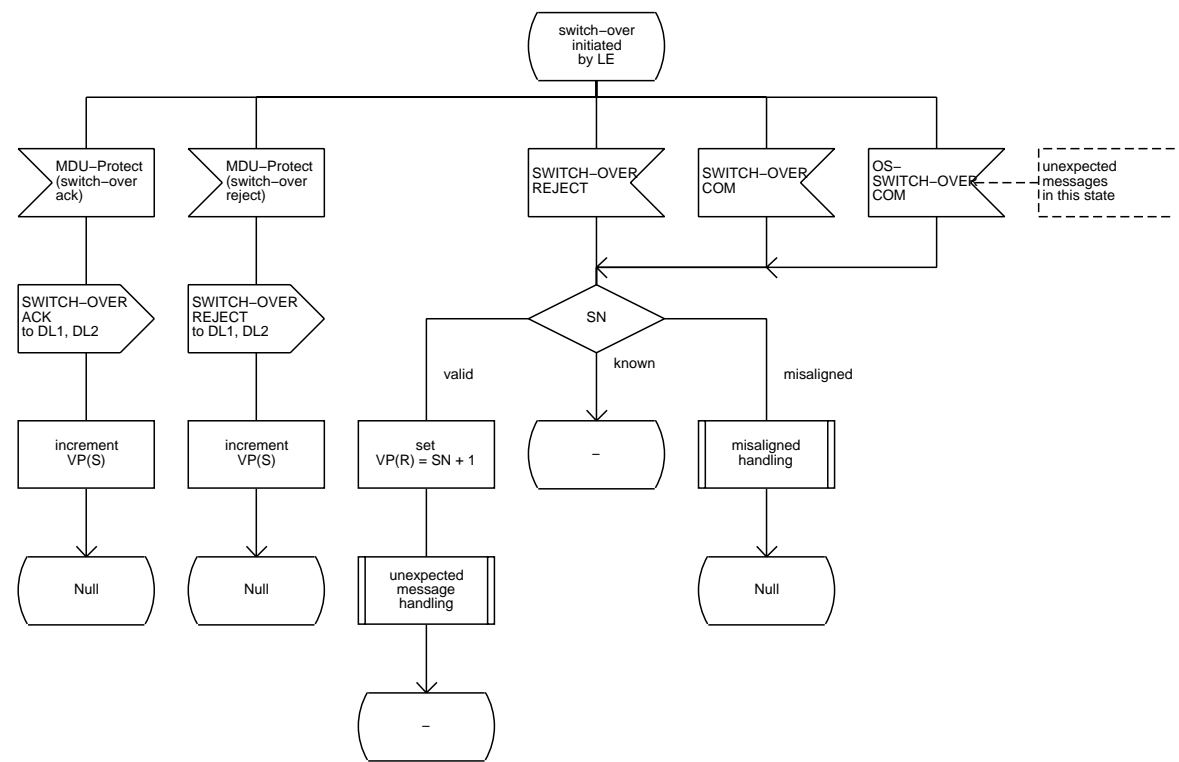


Process AN_PROTECT_FSM

6(7)



State
SOAN2 (Protection Protocol)

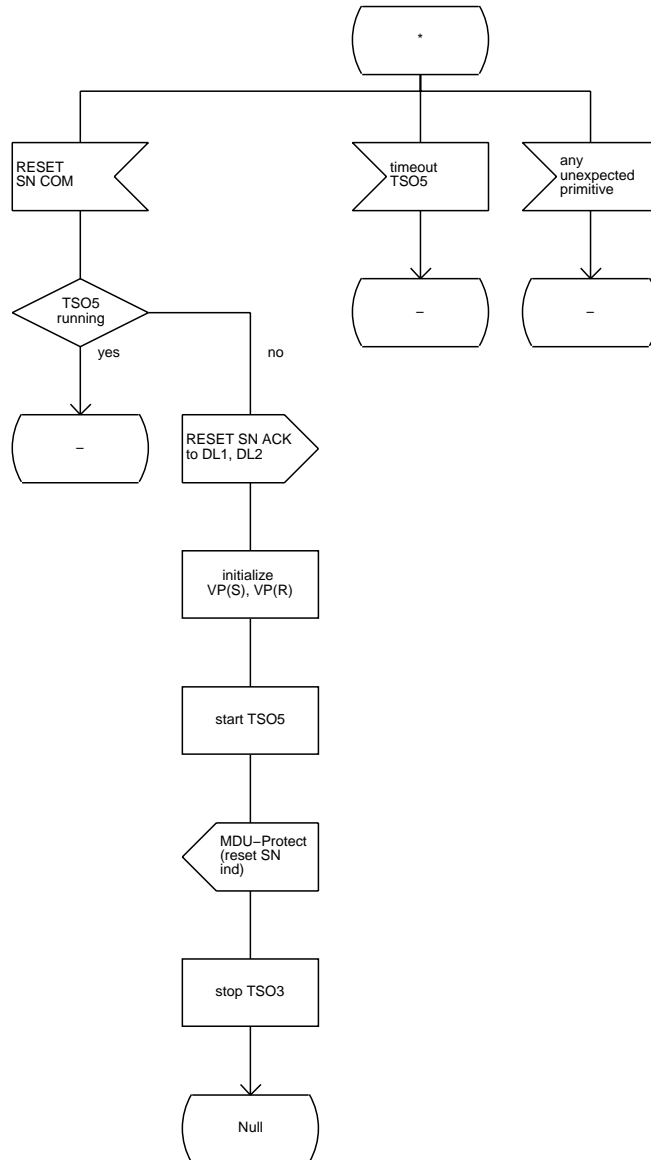


Process AN_PROTECT_FSM

7(7)



Any State
(Protection Protocol)



Block AN_BCC_PROTOCOL_BLK

1(1)



[MDU-BCC(Protocol error indication)]

SR_BCC_SYSMGT

AN_BCC_PROTOCOL_FSM

[DL-DATA-IND (ALLOCATION),
DL-DATA-IND (DEALLOCATION),
DL-DATA-IND (AUDIT),
DL-DATA-IND (AN FAULT ACKNOWLEDGE)]

SR_BCC_DL

[DL-DATA-REQ (ALLOCATION COMPLETE),
DL-DATA-REQ (ALLOCATION REJECT),
DL-DATA-REQ (DEALLOCATION COMPLETE),
DL-DATA-REQ (DEALLOCATION REJECT),
DL-DATA-REQ (AUDIT COMPLETE),
DL-DATA-REQ (AN FAULT),
DL-DATA-REQ (PROTOCOL ERROR)]

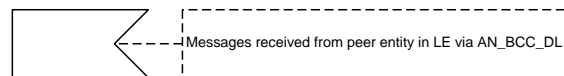
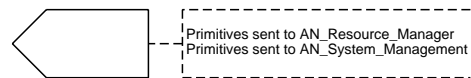
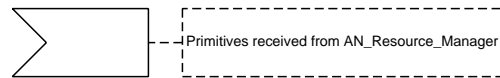
[MDU-BCC(Allocation response (complete)),
MDU-BCC(Allocation response (reject)),
MDU-BCC(Deallocation response (complete)),
MDU-BCC(Deallocation response (reject)),
MDU-BCC(Audit response),
MDU-BCC(AN fault request)]

SR_BCC_RSCMGR

[MDU-BCC(Allocation indication),
MDU-BCC(Deallocation indication),
MDU-BCC(Audit indication),
MDU-BCC(AN fault confirmation),
MDU-BCC(AN fault error indication)]

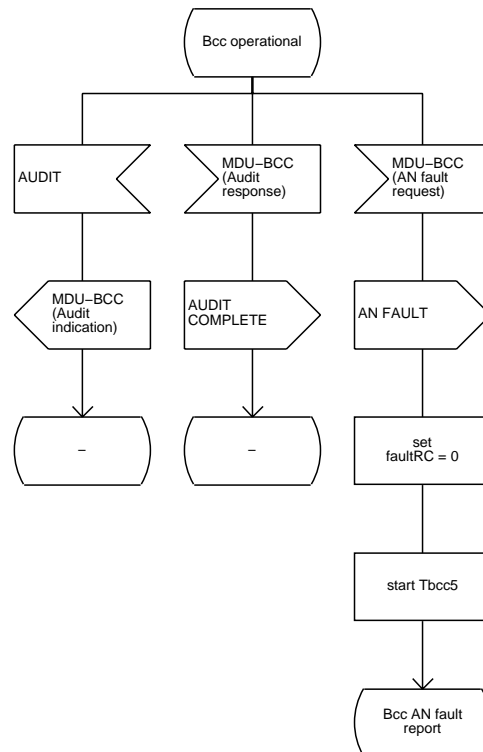
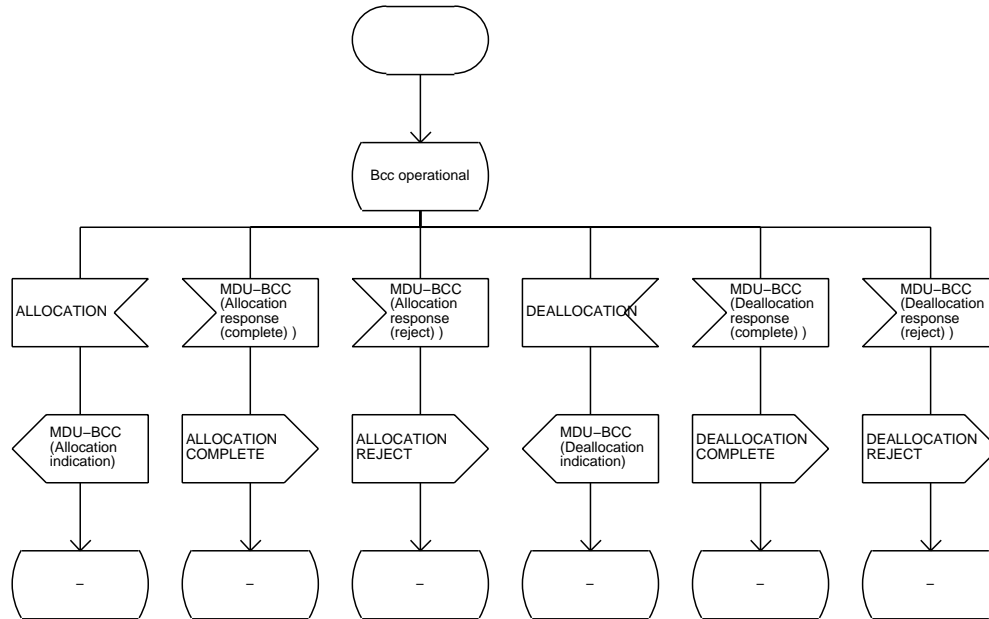


AN_BCC_PROTOCOL_FSM
message direction description





State
ANBcc0 (BCC)





State
ANBcc1(BCC)

