









































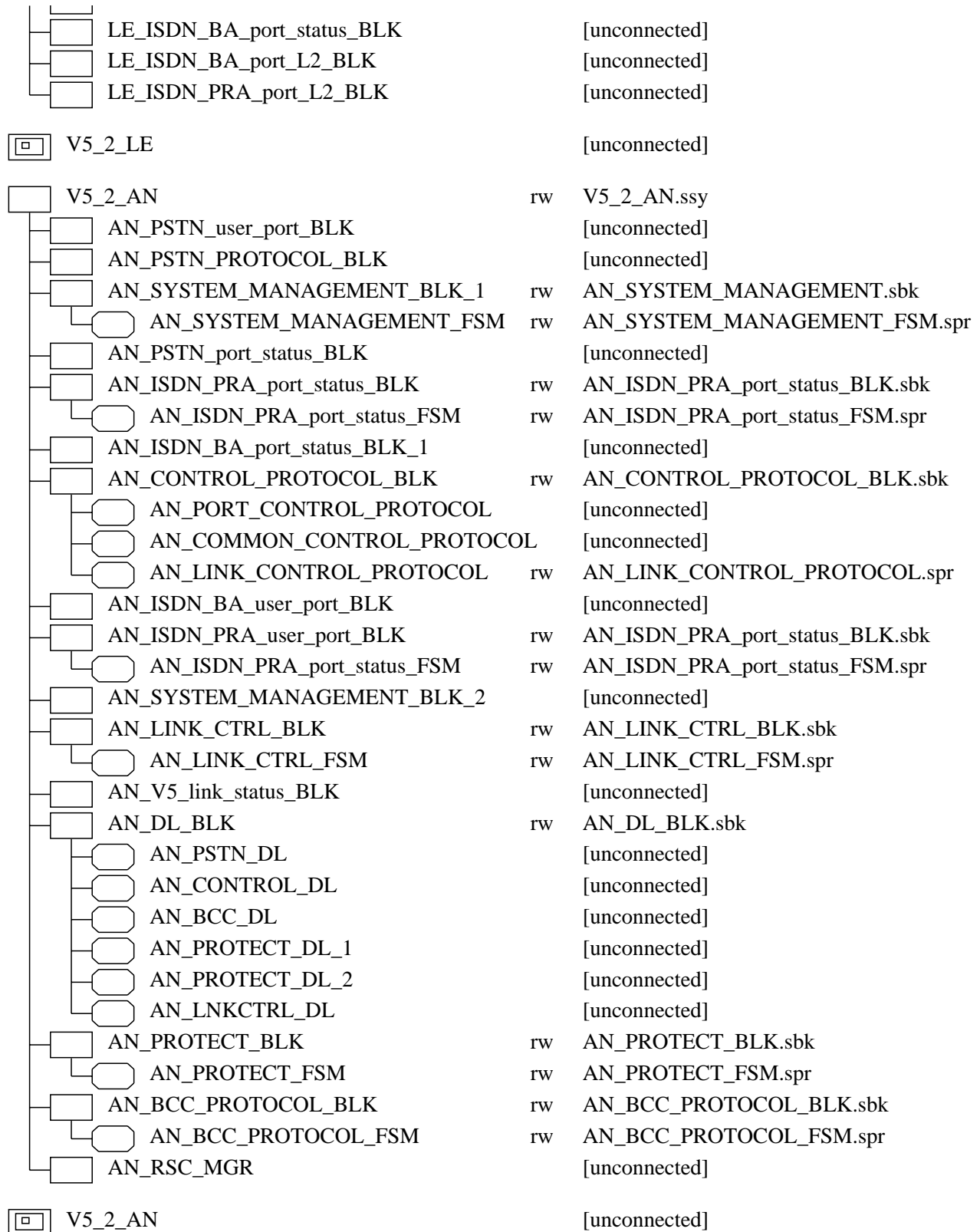


## Table of Contents

Organizer View	1
Block Startup_procedure	7
Process Startup	8
<del>Process L2Act_Sequential</del>	10
Process LKMGMT	15
Process VIDCHECK	17
Process Data_Link_Recovery	18
Process L2Act_Parallel	21
<del>Process Block_all_ports</del>	25
Process Unblock_all_relevant_ports	28
System V5_2_LE	31
Block LE_SYSTEM_MANAGEMENT_BLK	33
Process LE_SYSTEM_MANAGEMENT_FSM	34
Block LE_DL_BLK	38
Block LE_PROTECT_BLK	39
<del>Process LE_PROTECT_FSM</del>	40
Block LE_BCC_PROTOCOL_BLK	48
Process LE_BCC_PROTOCOL_FSM	49
Block LE_SYSTEM_MANAGEMENT_BLK_1	55
Process LE_SYSTEM_MANAGEMENT_FSM	56
<del>Block LE_ISDN_PRA_port_status_BLK</del>	63
Process LE_ISDN_PRA_port_status_FSM	64
Block LE_CONTROL_PROTOCOL_BLK	69
Process LE_LINK_CONTROL_PROTOCOL	70
Block LE_LINK_CTRL_BLK	73
<del>Process LE_LINK_CTRL_FSM</del>	74
System V5_2_AN	80
<del>Block AN_SYSTEM_MANAGEMENT_BLK_1</del>	82
Process AN_SYSTEM_MANAGEMENT_FSM	83
Block AN_ISDN_PRA_port_status_BLK	85
Process AN_ISDN_PRA_port_status_FSM	86
Block AN_CONTROL_PROTOCOL_BLK	97
<del>Process AN_LINK_CONTROL_PROTOCOL</del>	98
Block AN_ISDN_PRA_user_port_BLK	101
<del>Process AN_ISDN_PRA_port_status_FSM</del>	102
Block AN_LINK_CTRL_BLK	113
Process AN_LINK_CTRL_FSM	114
<del>Block AN_DL_BLK</del>	122
Block AN_PROTECT_BLK	123
<del>Process AN_PROTECT_FSM</del>	124
Block AN_BCC_PROTOCOL_BLK	131
Process AN_BCC_PROTOCOL_FSM	132

	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

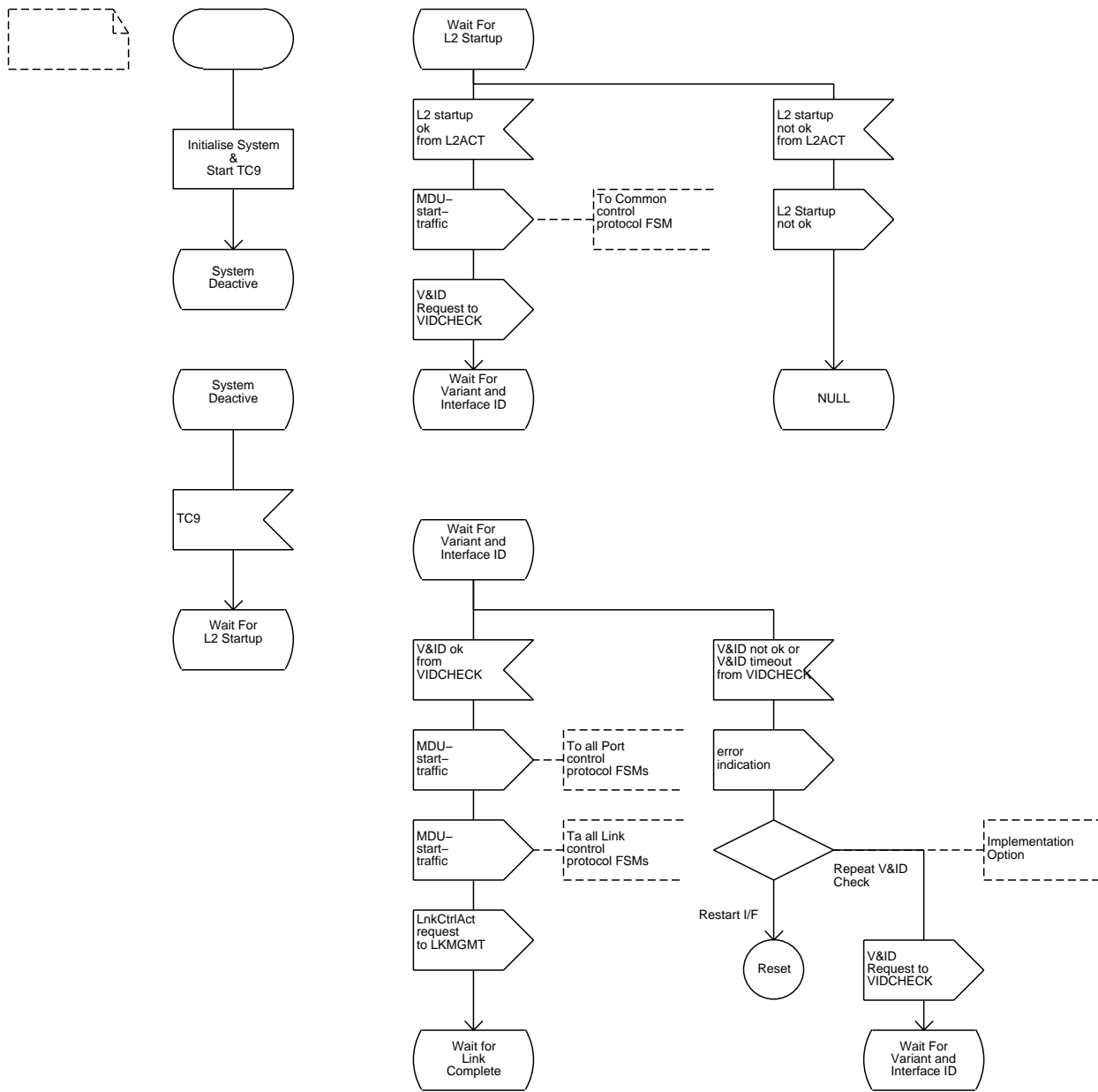
Data\_Link\_Recovery

L2Act\_Parallel



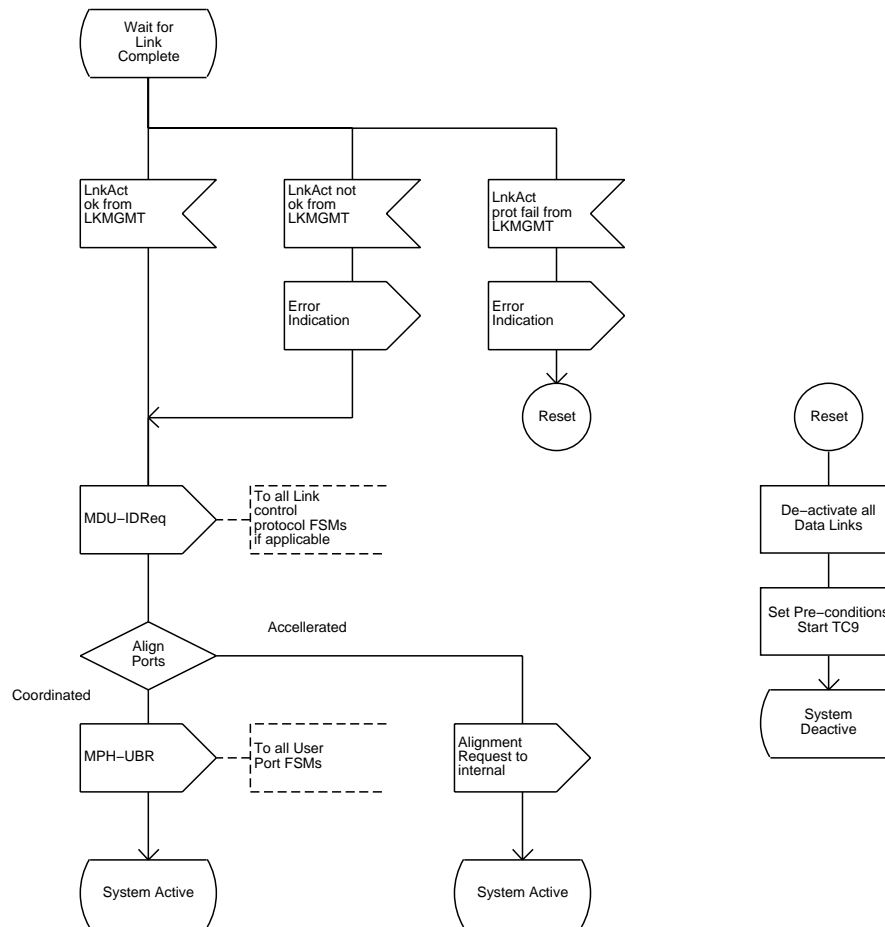
# Process Startup

1(2)



## Process Startup

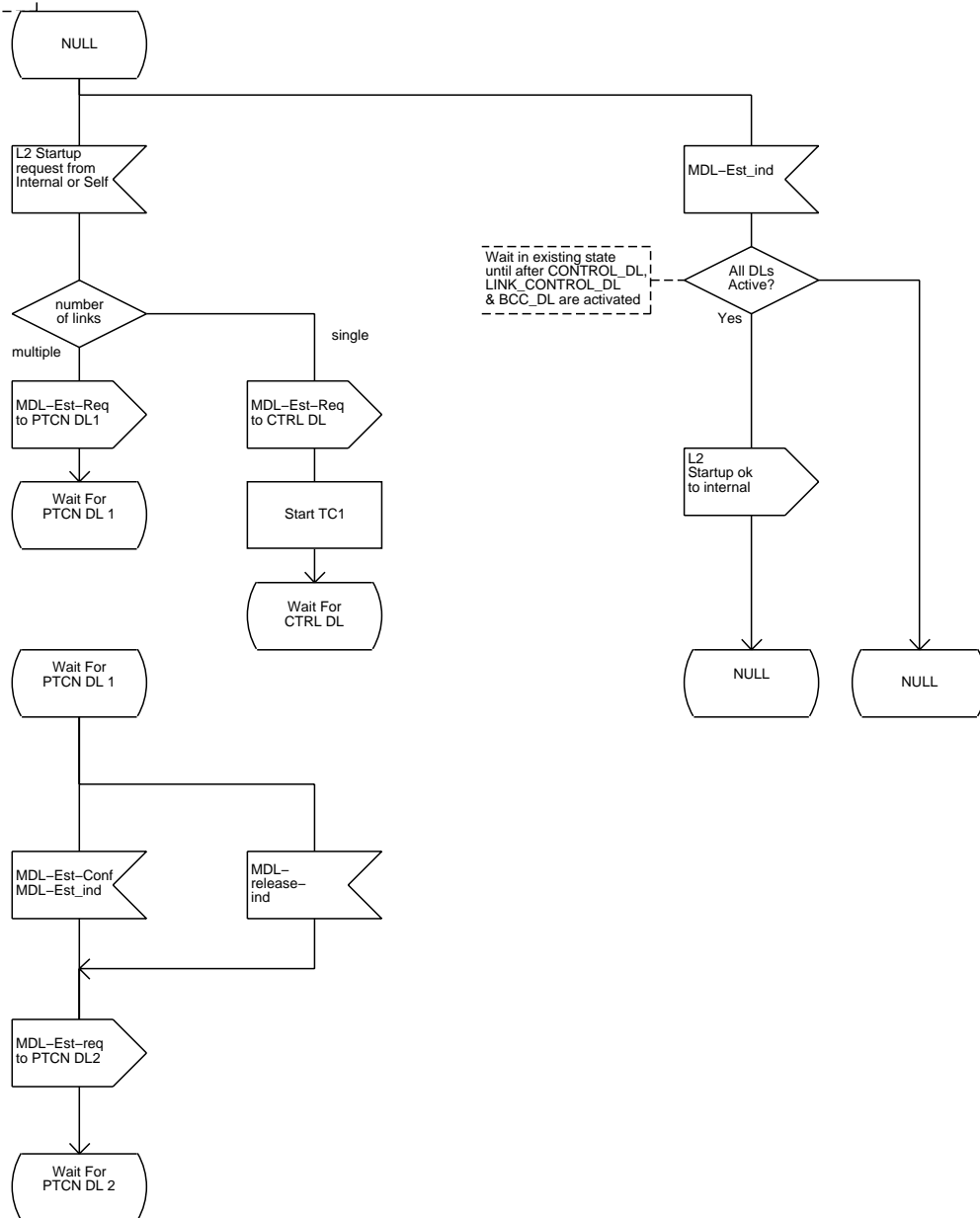
2(2)



# Process L2Act\_Sequential

1(5)

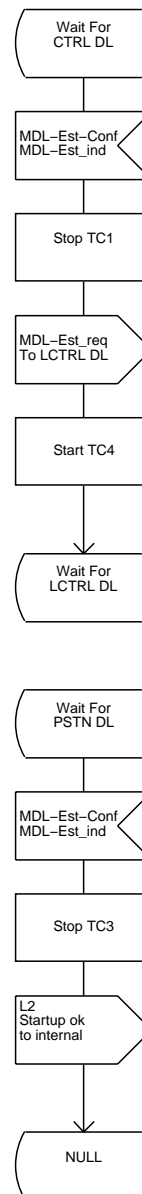
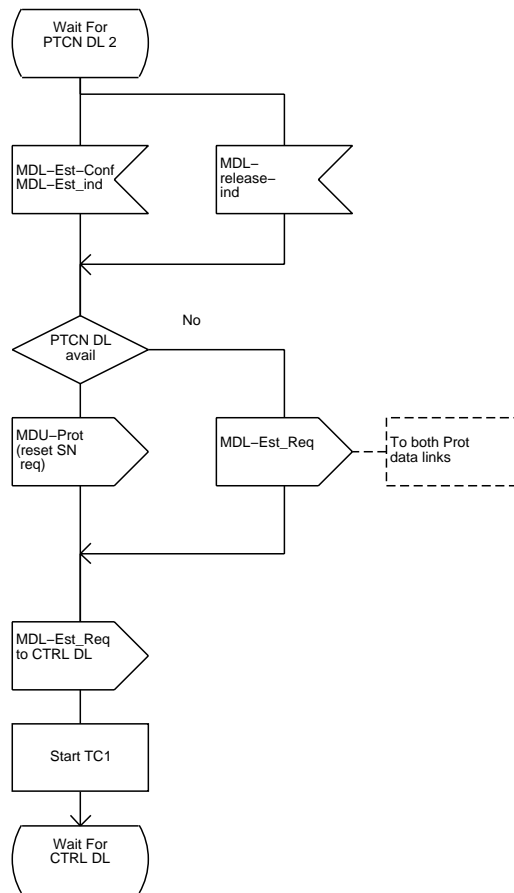
This SDL illustrates a sequential Data Link layer activation.



## Process L2Act\_Sequential

2(5)

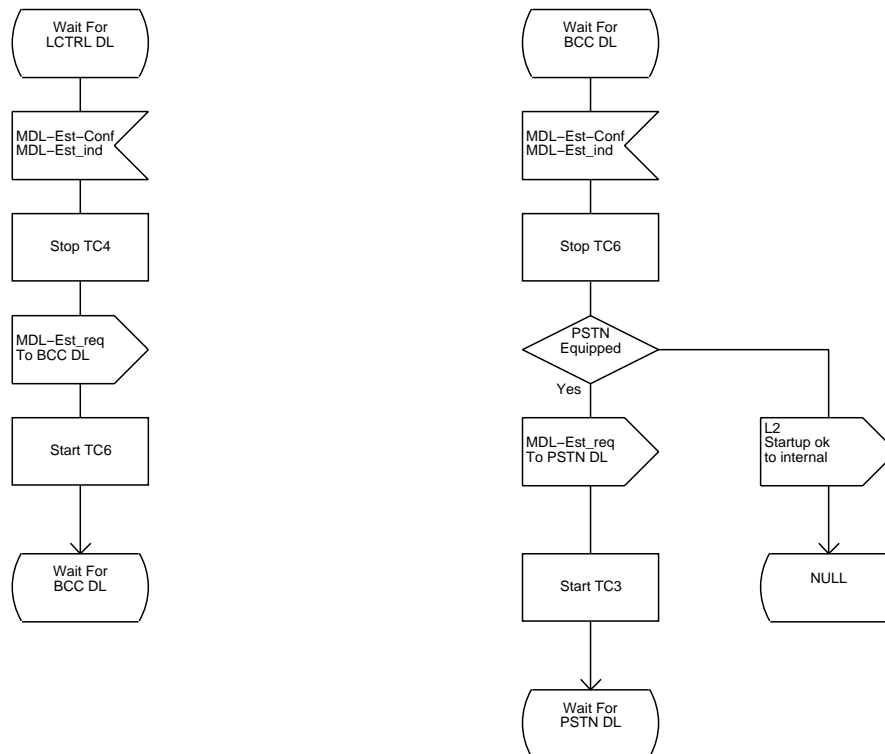
This SDL illustrates a sequential Data Link layer activation.



## Process L2Act\_Sequential

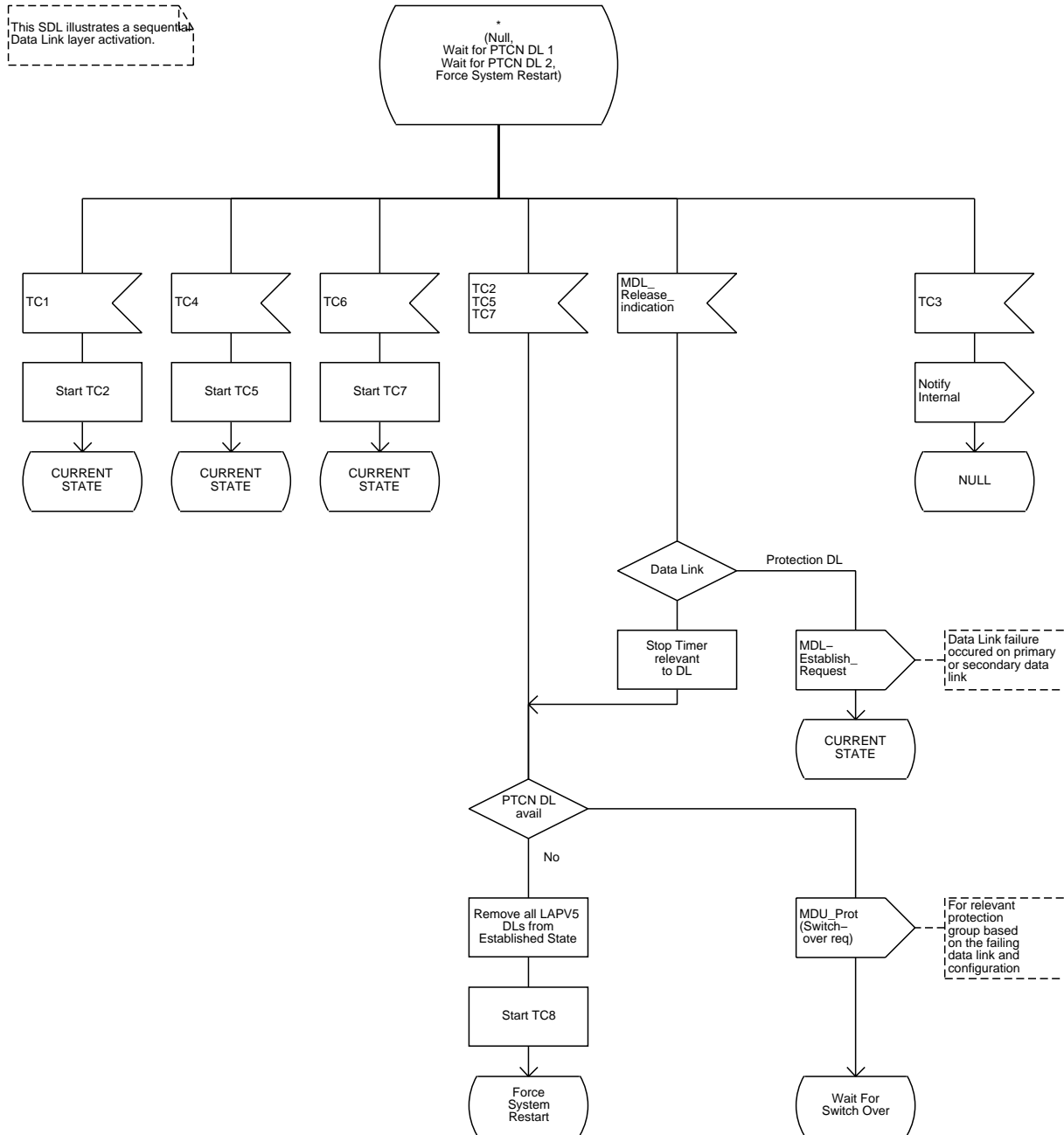
3(5)

This SDL illustrates a sequential  
Data Link layer activation.



# Process L2Act\_Sequential

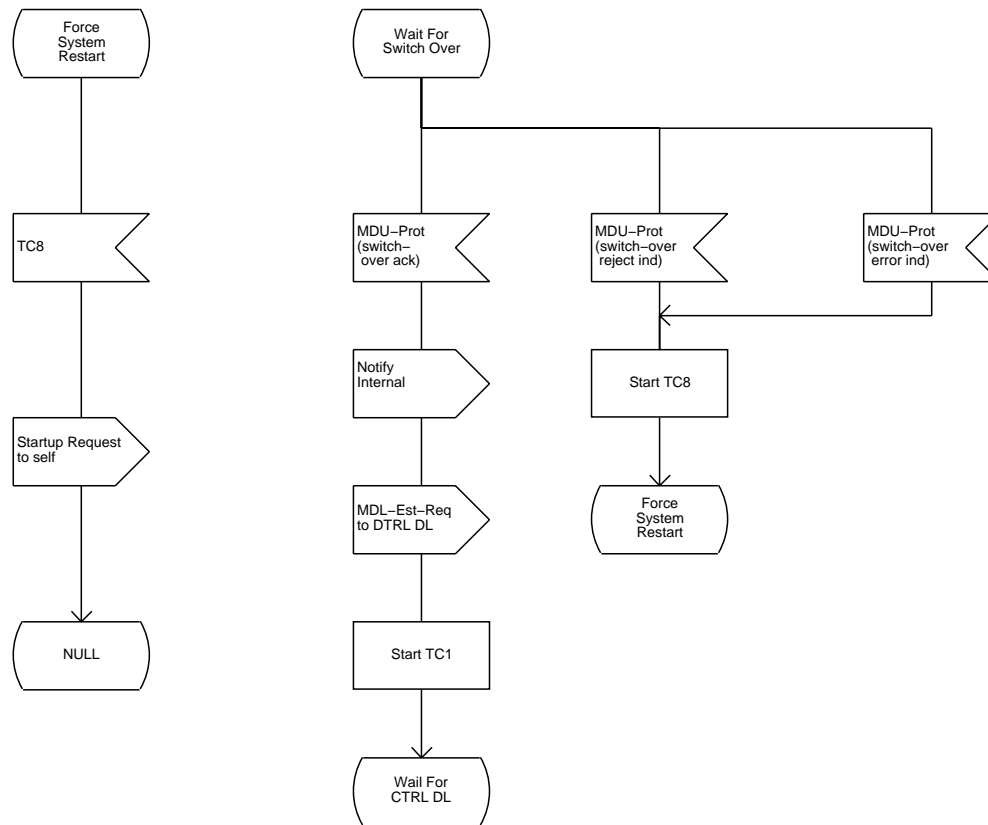
4(5)

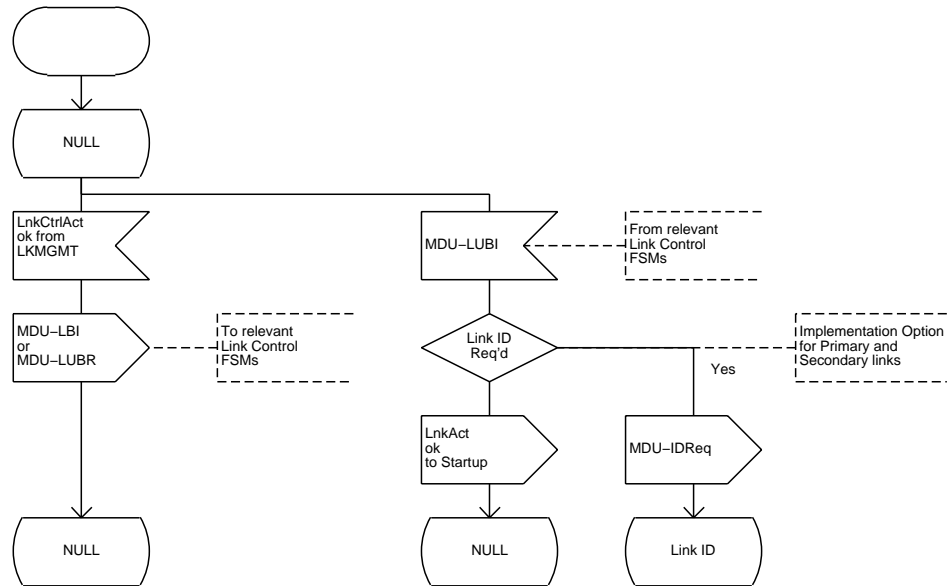


# Process L2Act\_Sequential

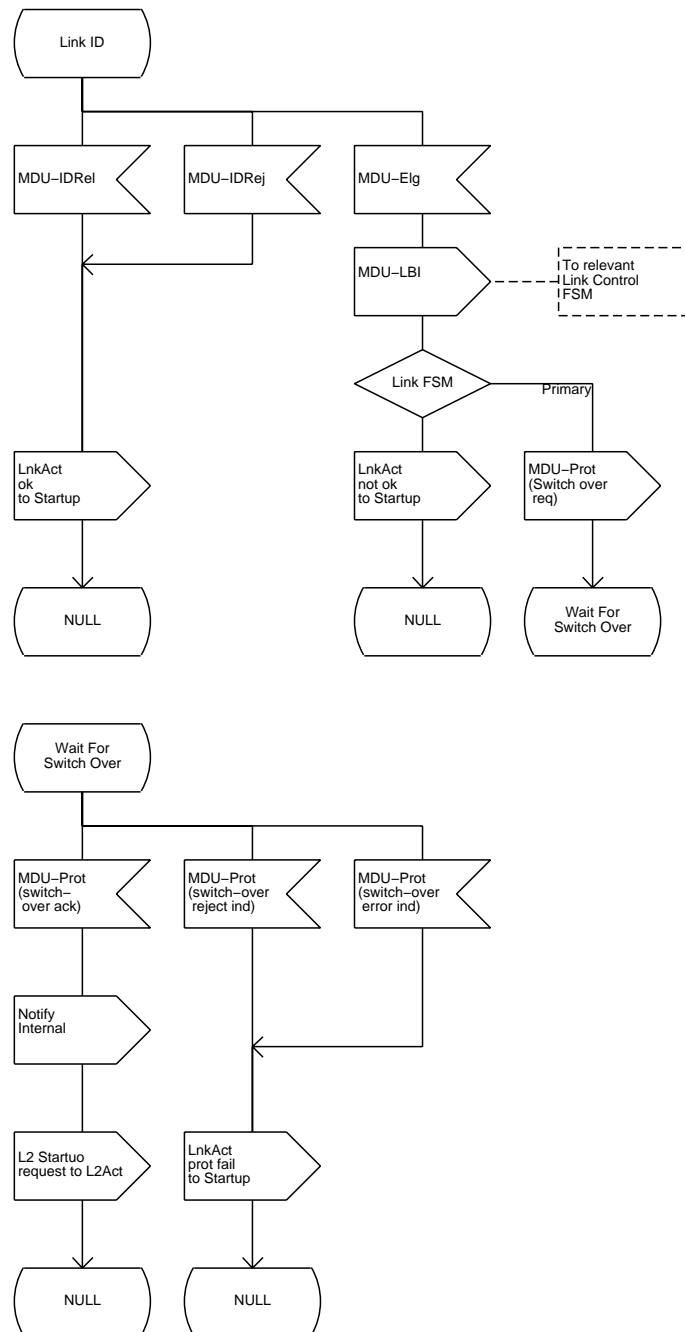
5(5)

This SDL illustrates a sequential Data Link layer activation.



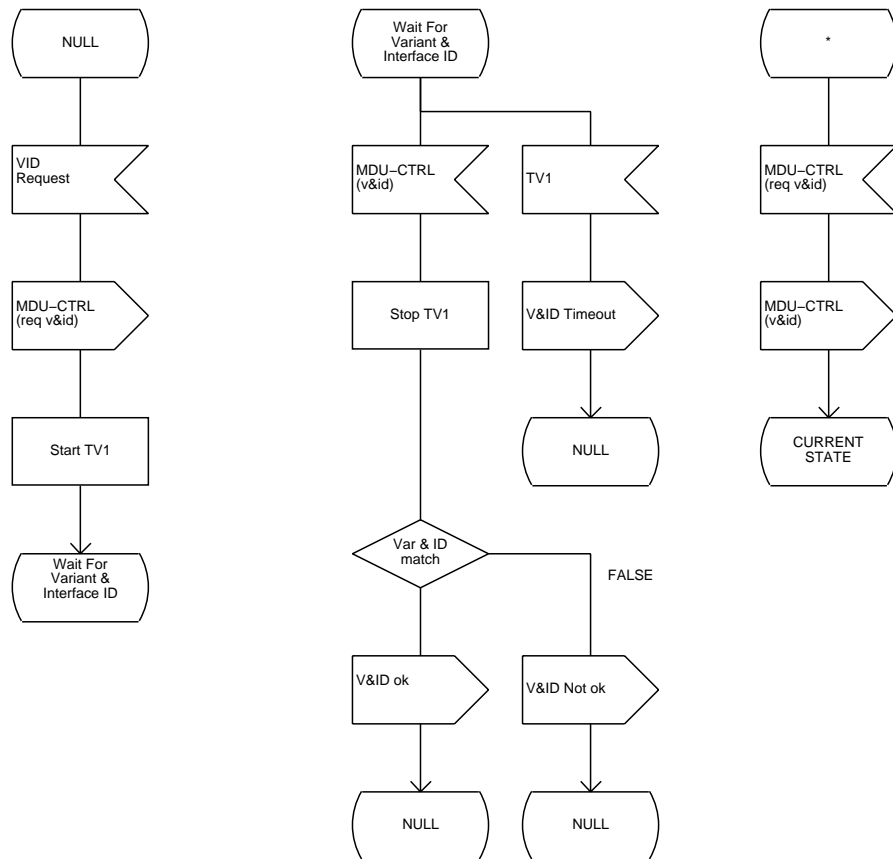






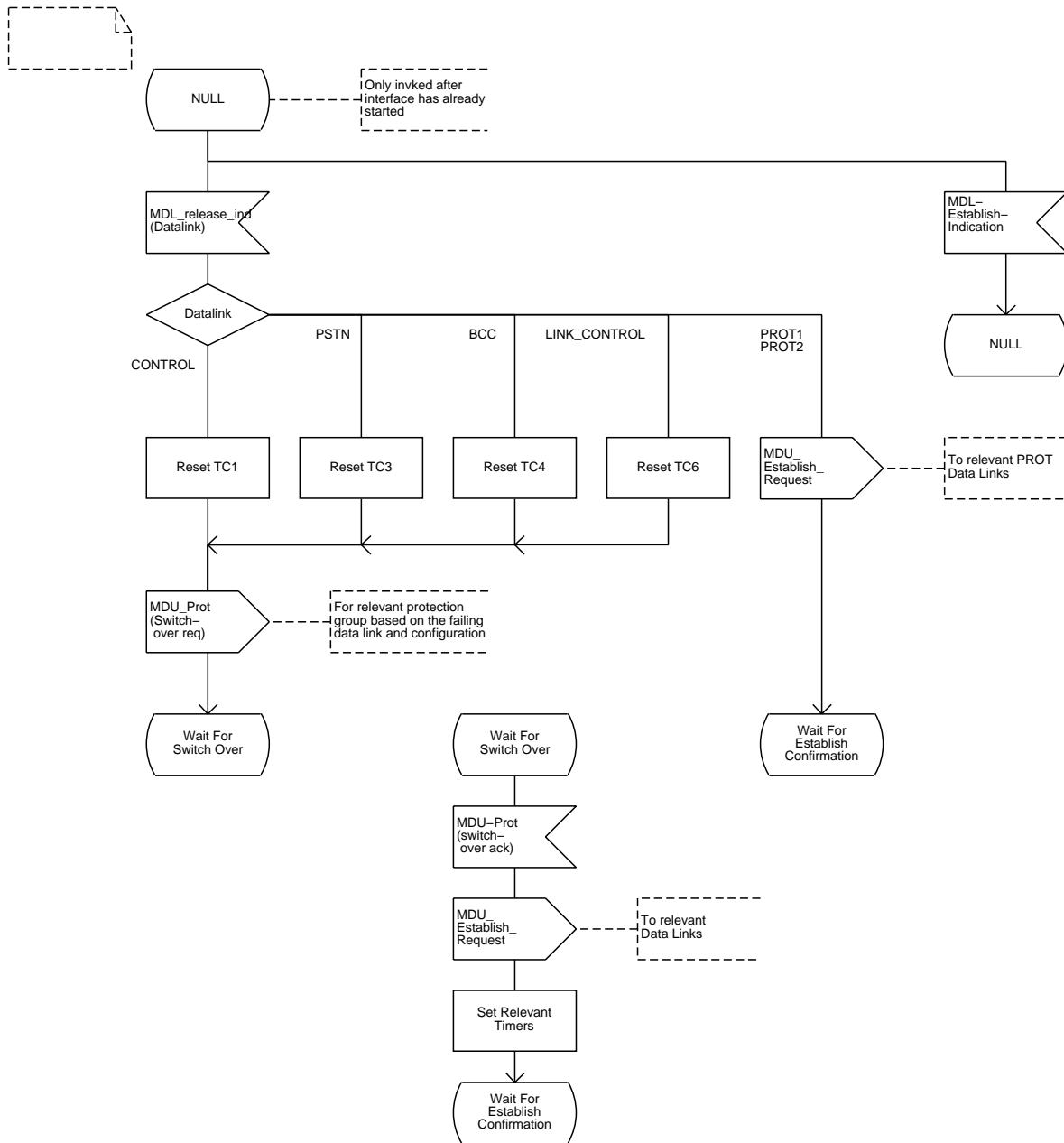
## Process VIDCHECK

1(1)



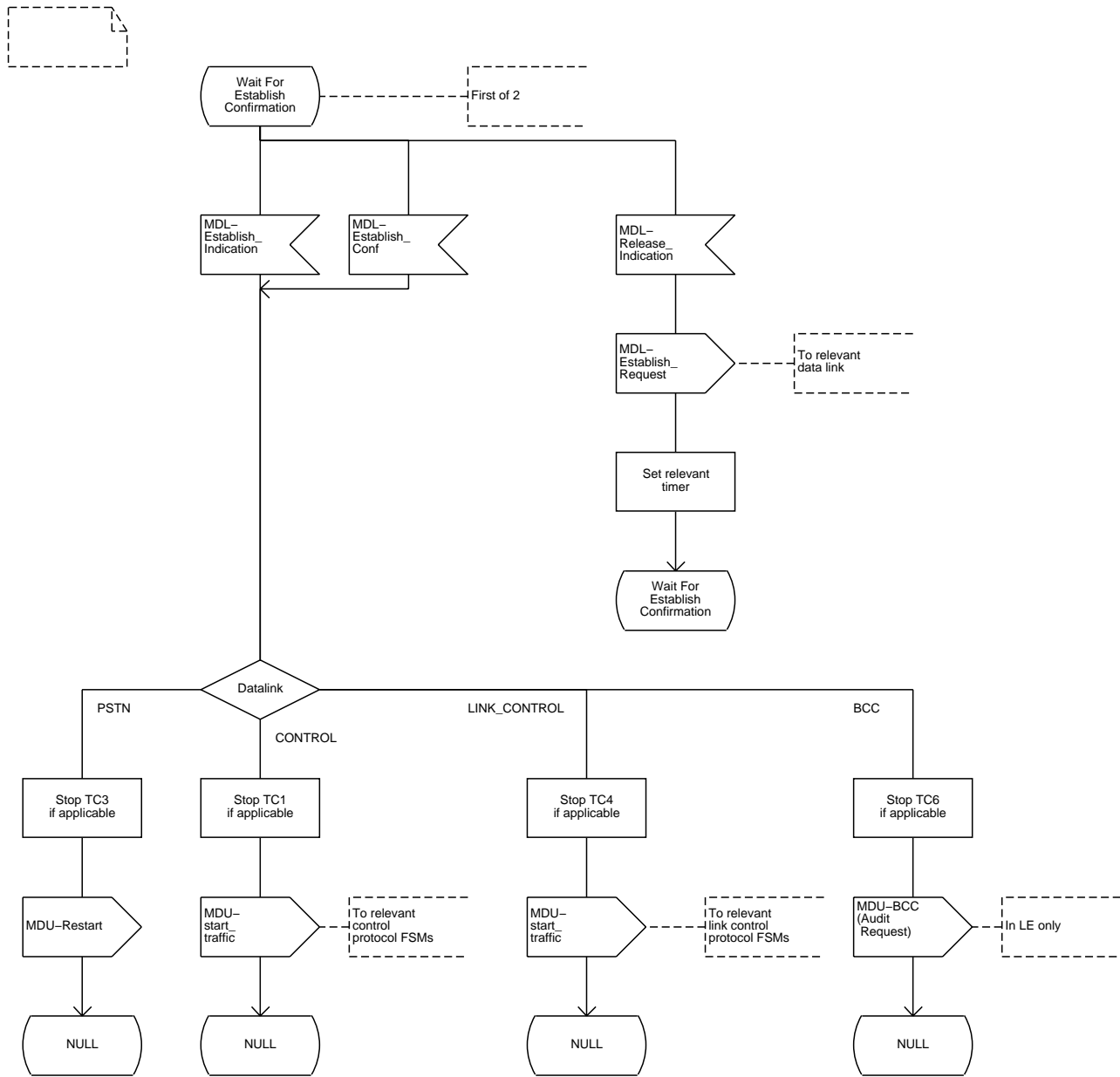
# Process Data\_Link\_Recovery

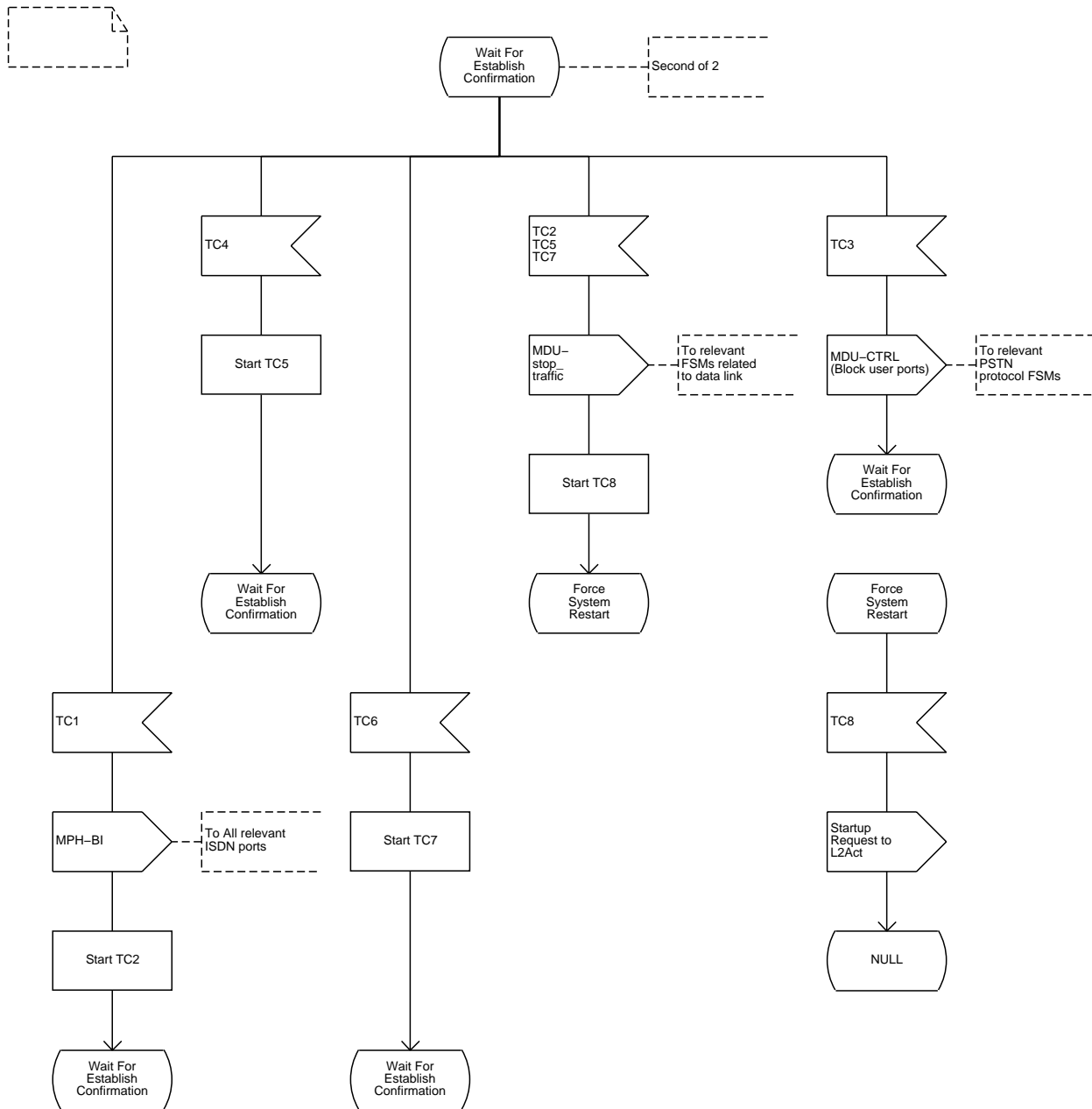
1(3)

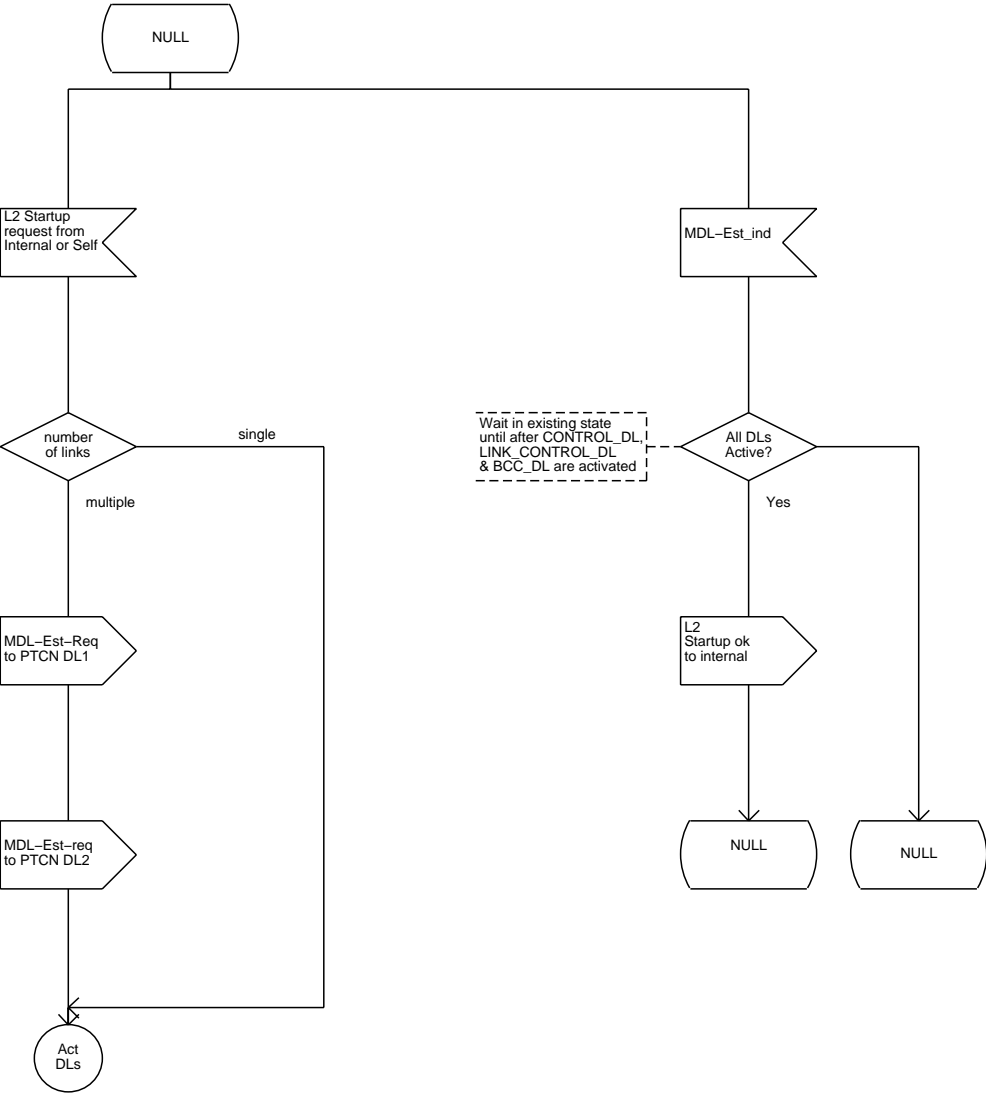


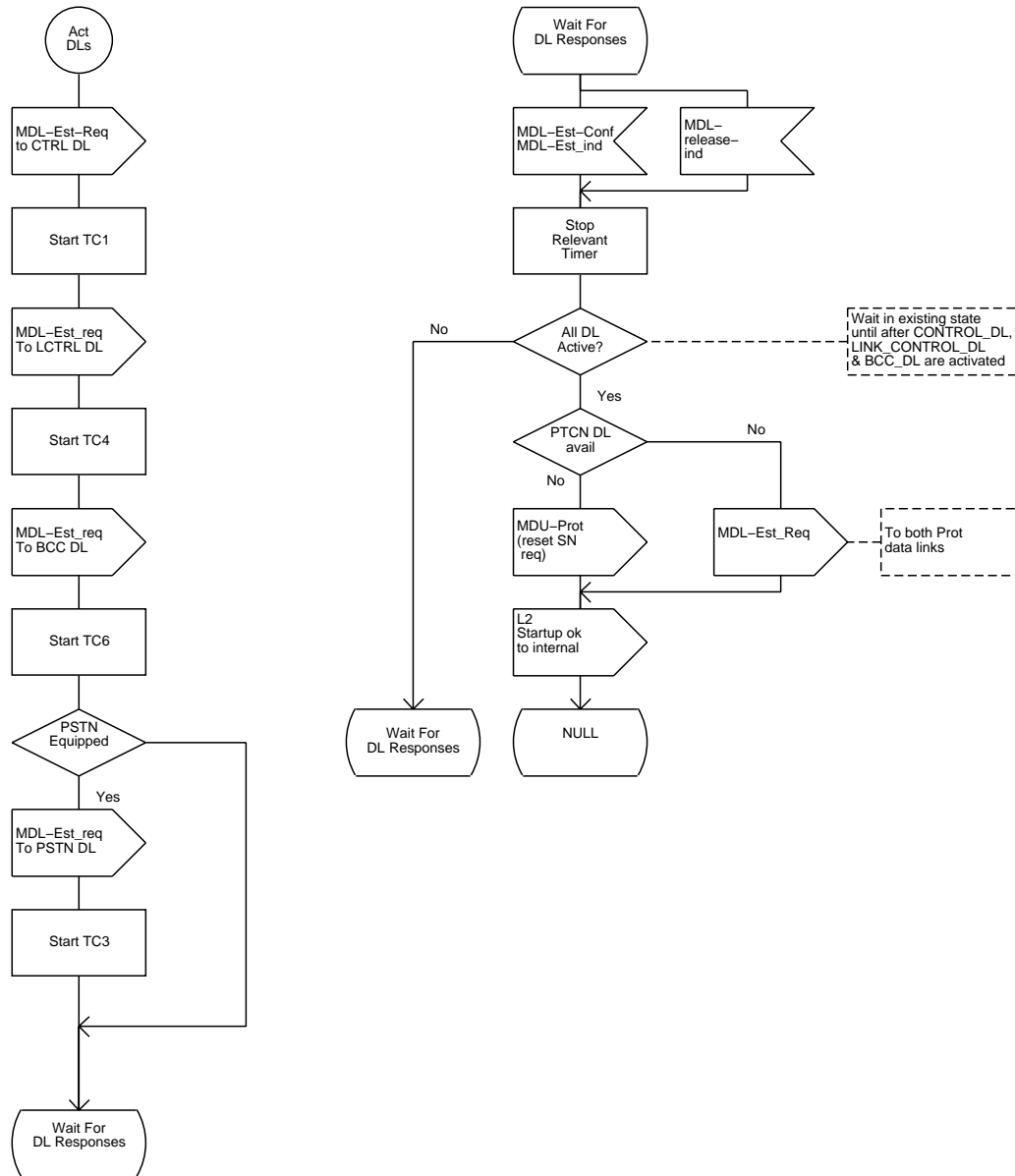
# Process Data\_Link\_Recovery

2(3)



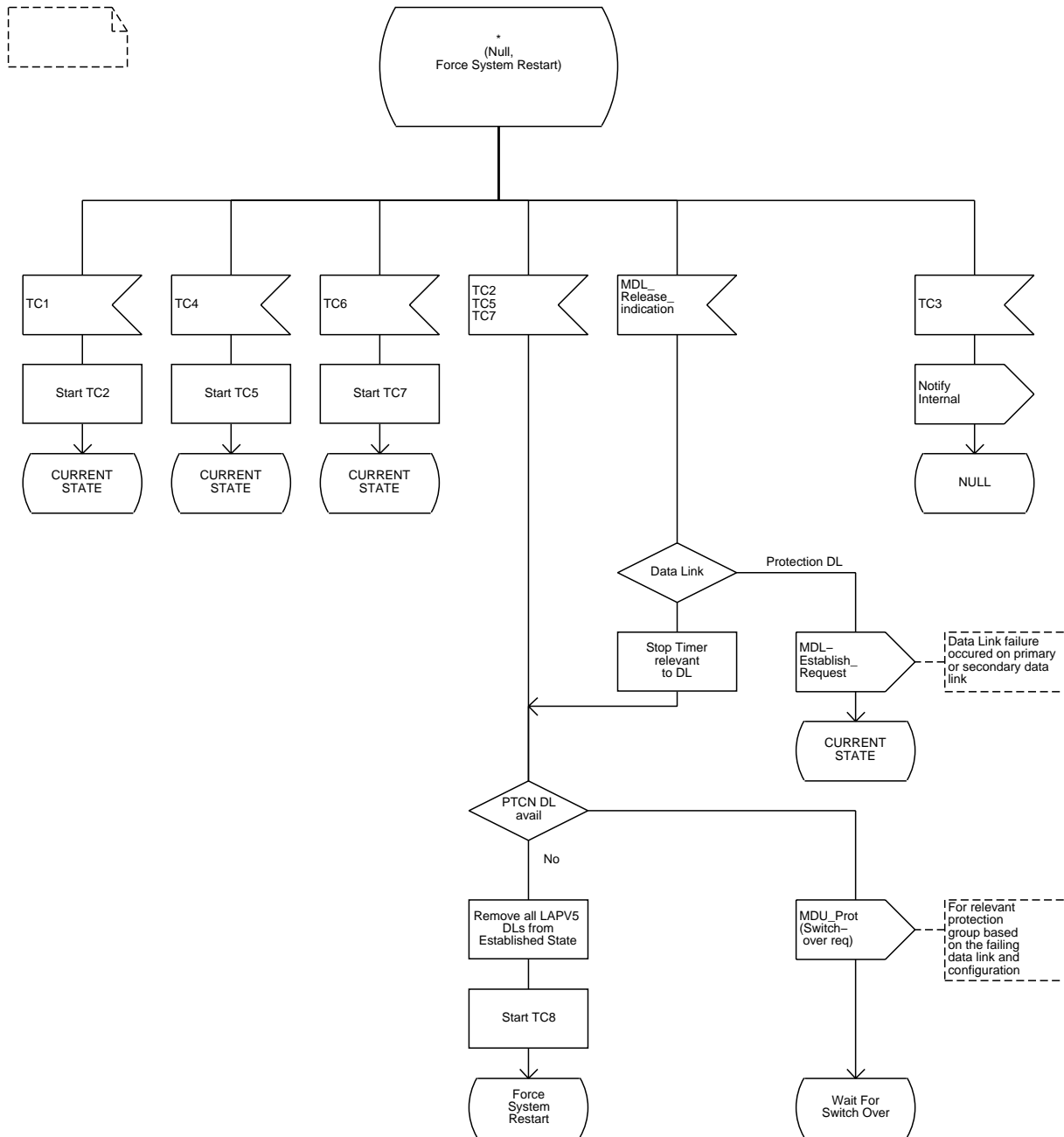






# Process L2Act\_Parallel

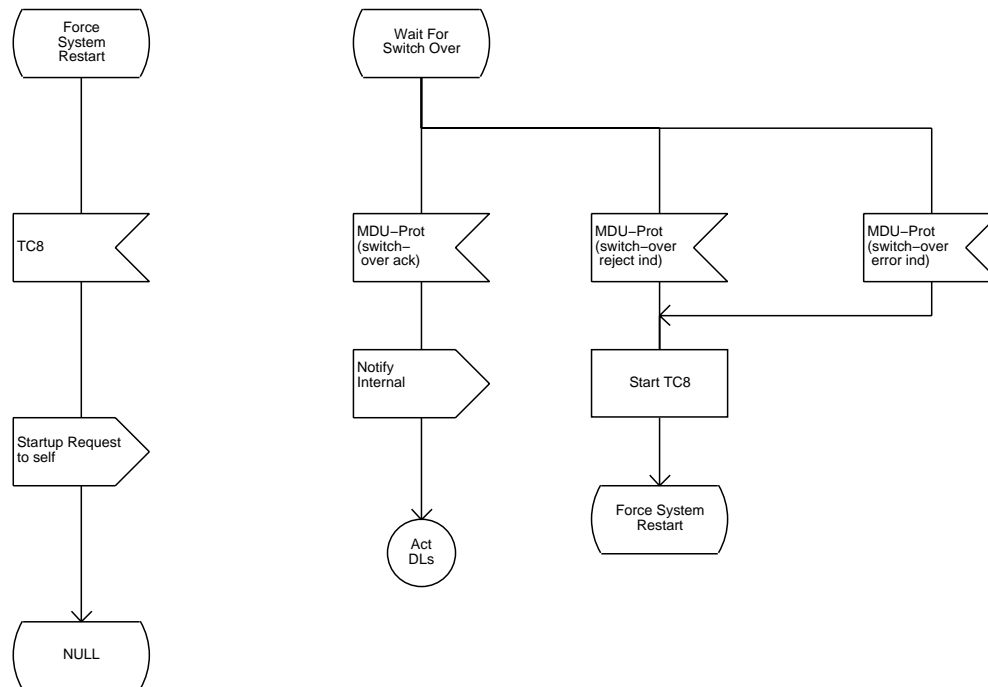
3(4)





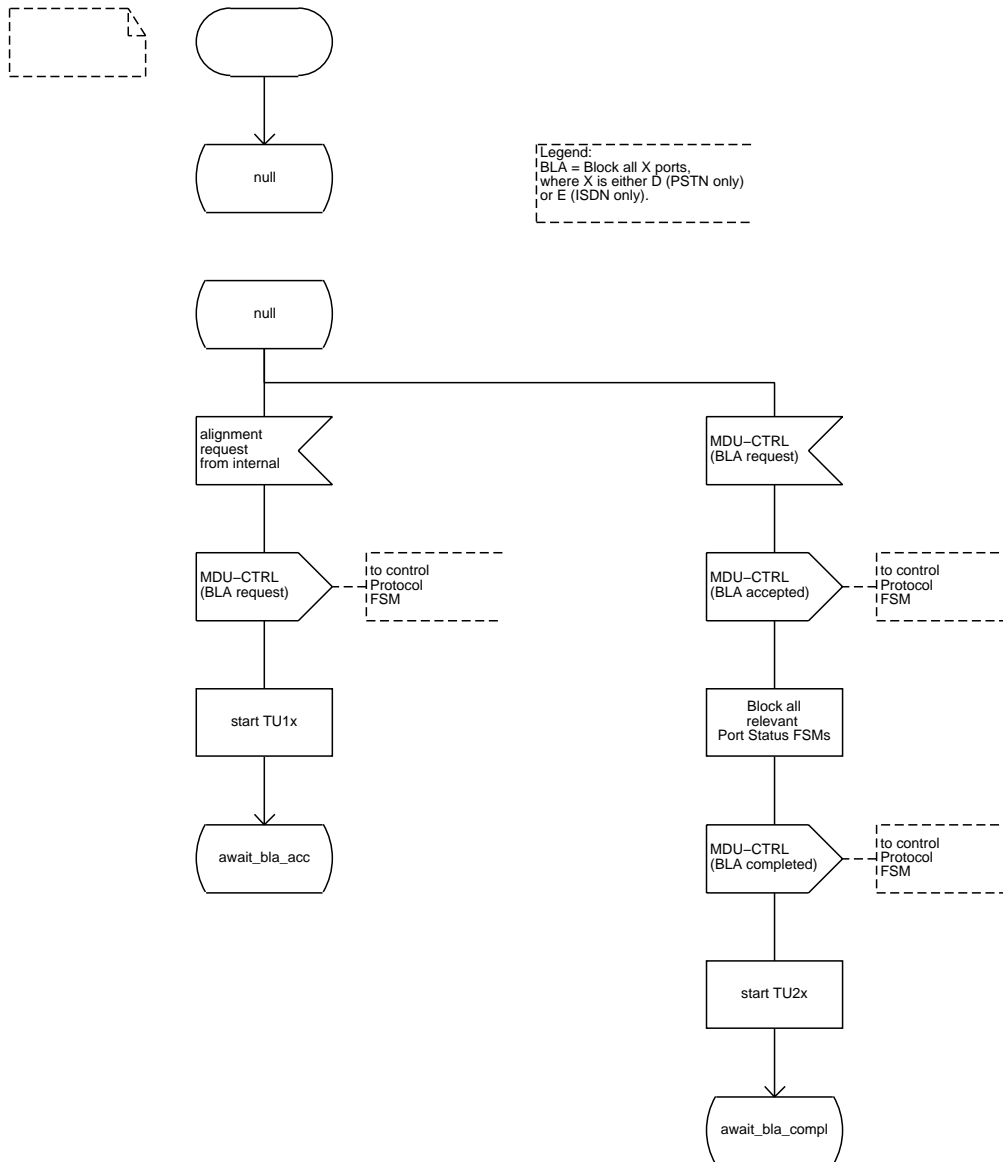
## Process L2Act\_Parallel

4(4)



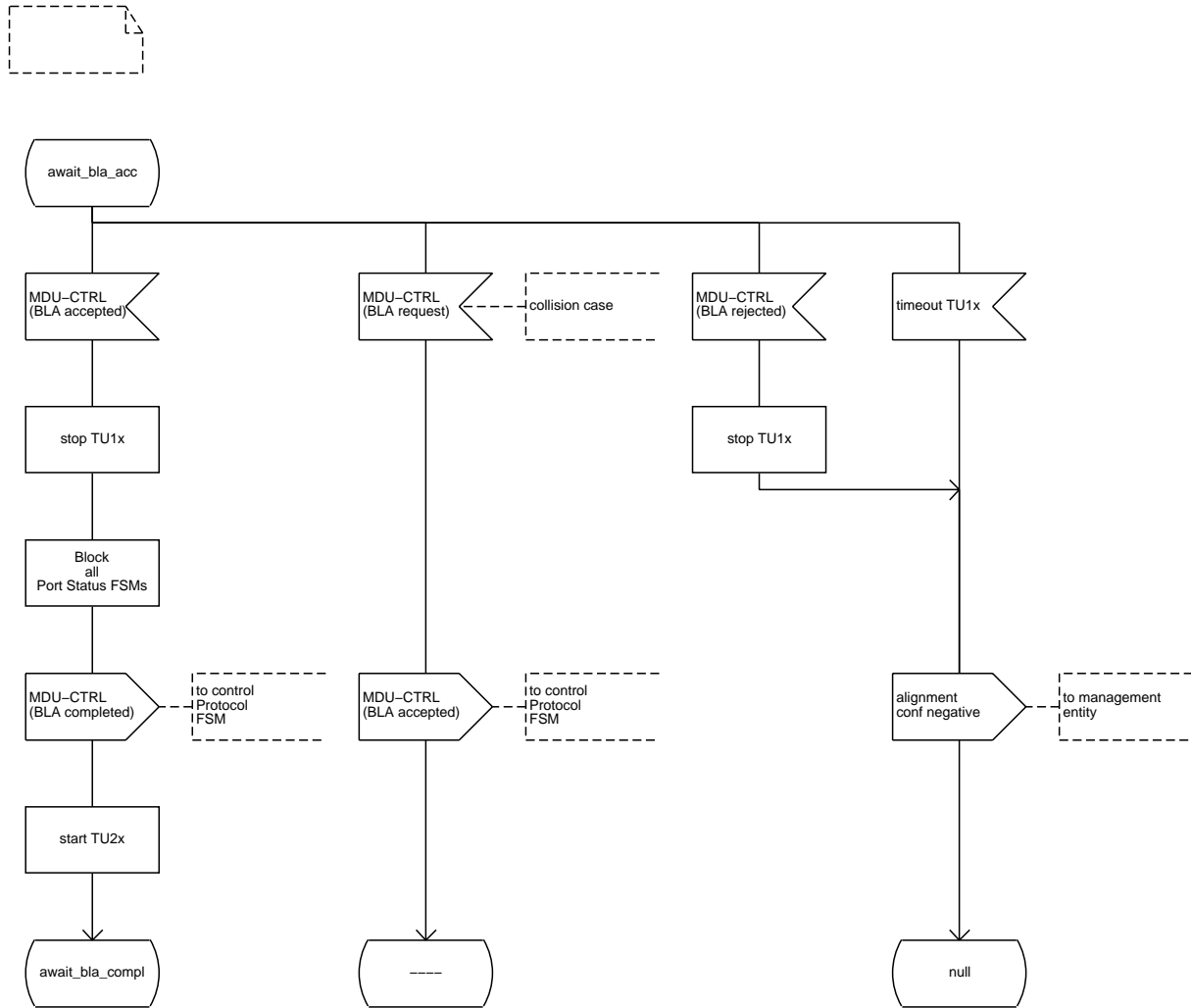
## Process Block\_all\_ports

1(3)



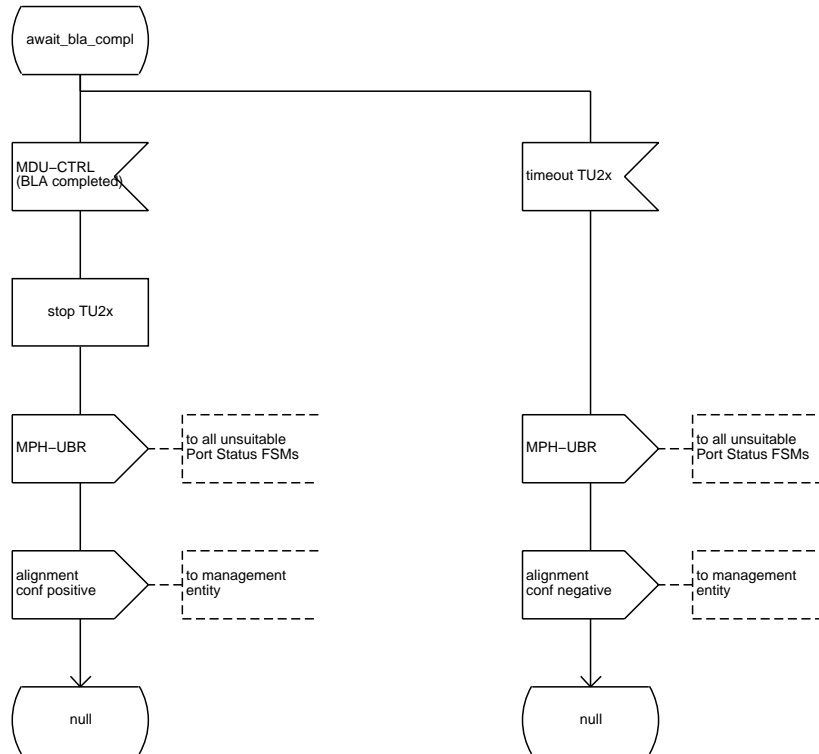
## Process Block\_all\_ports

2(3)



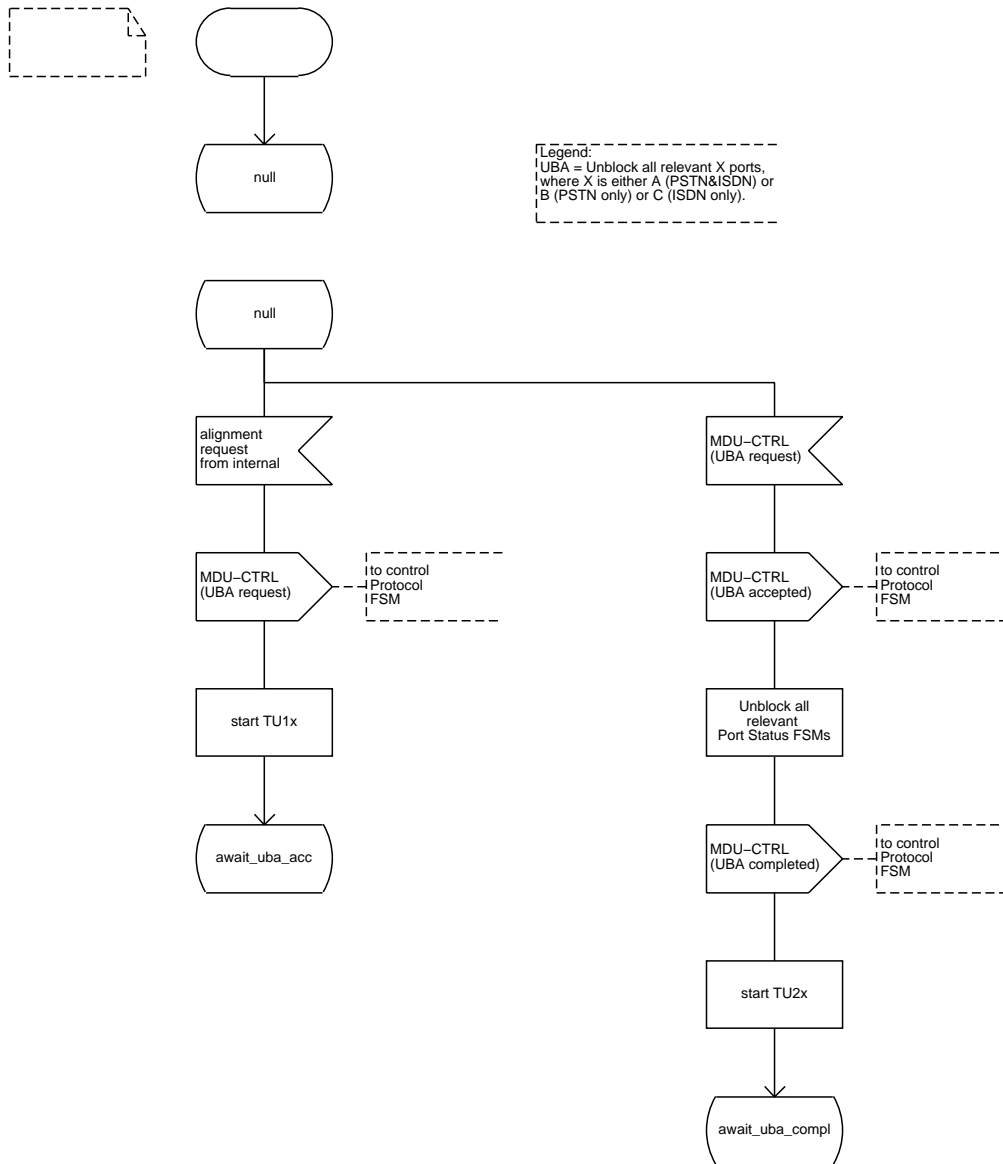
## Process Block\_all\_ports

3(3)



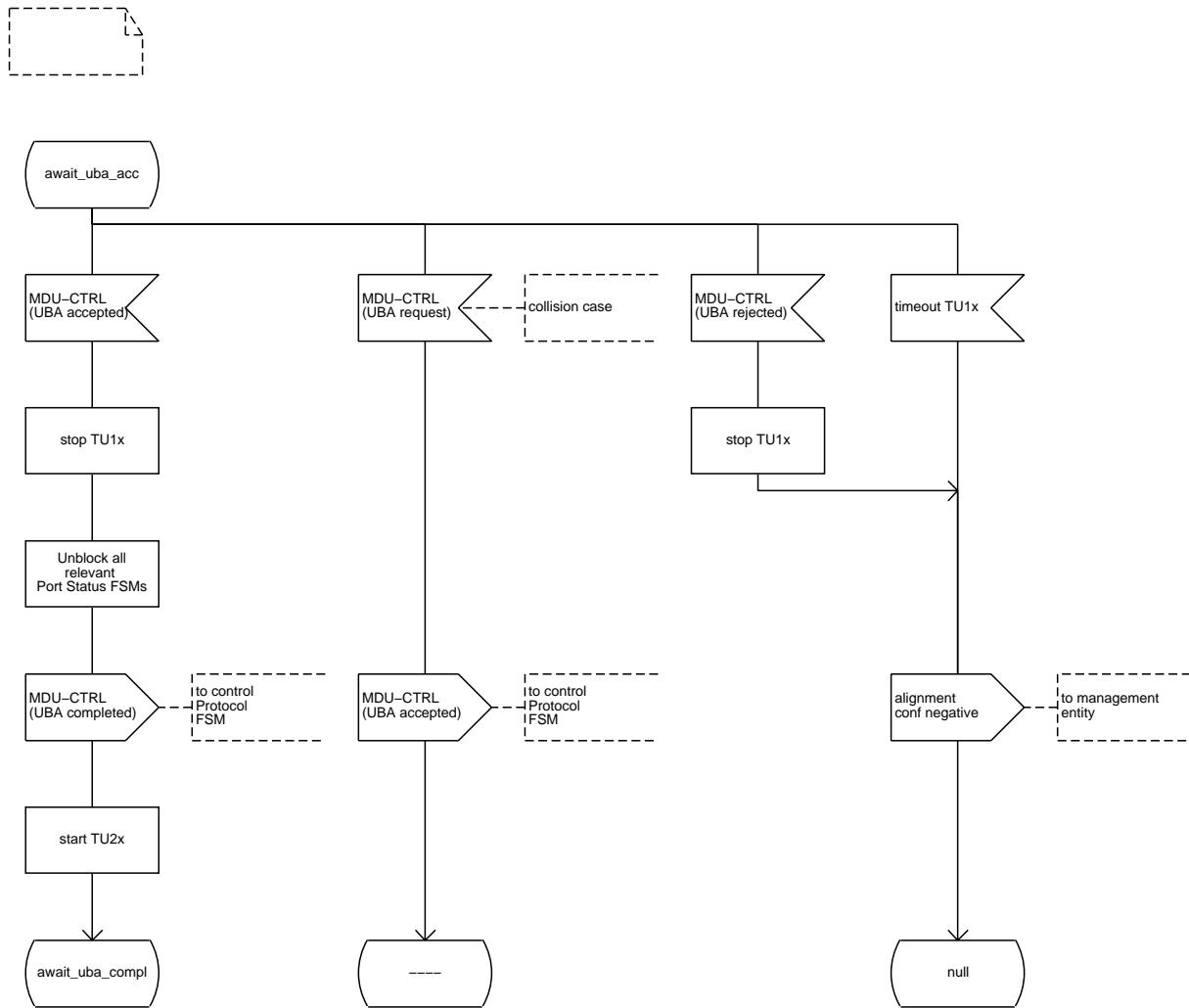
# Process Unblock\_all\_relevant\_ports

1(3)



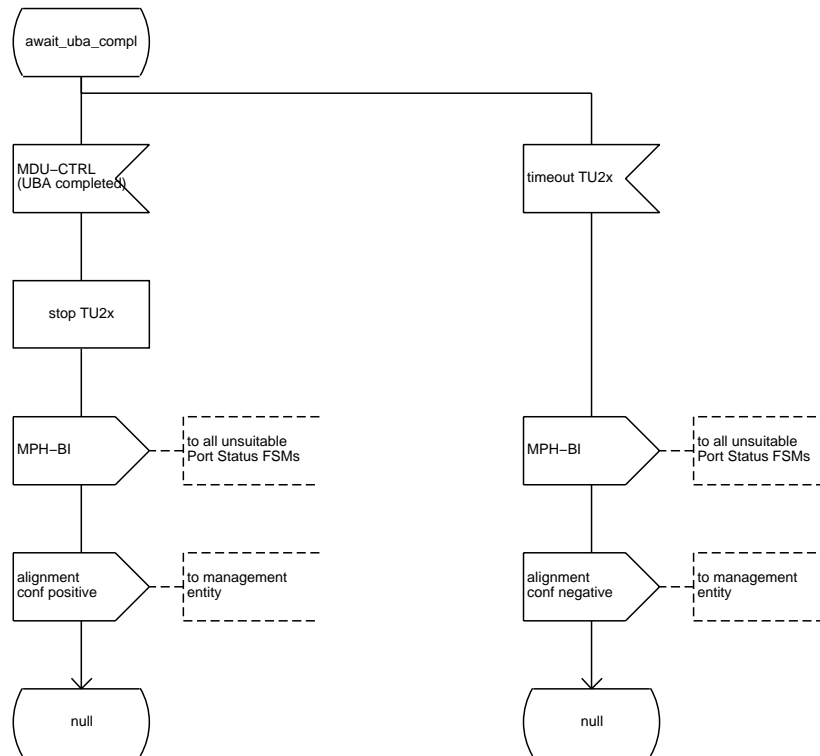
## Process Unblock\_all\_relevant\_ports

2(3)



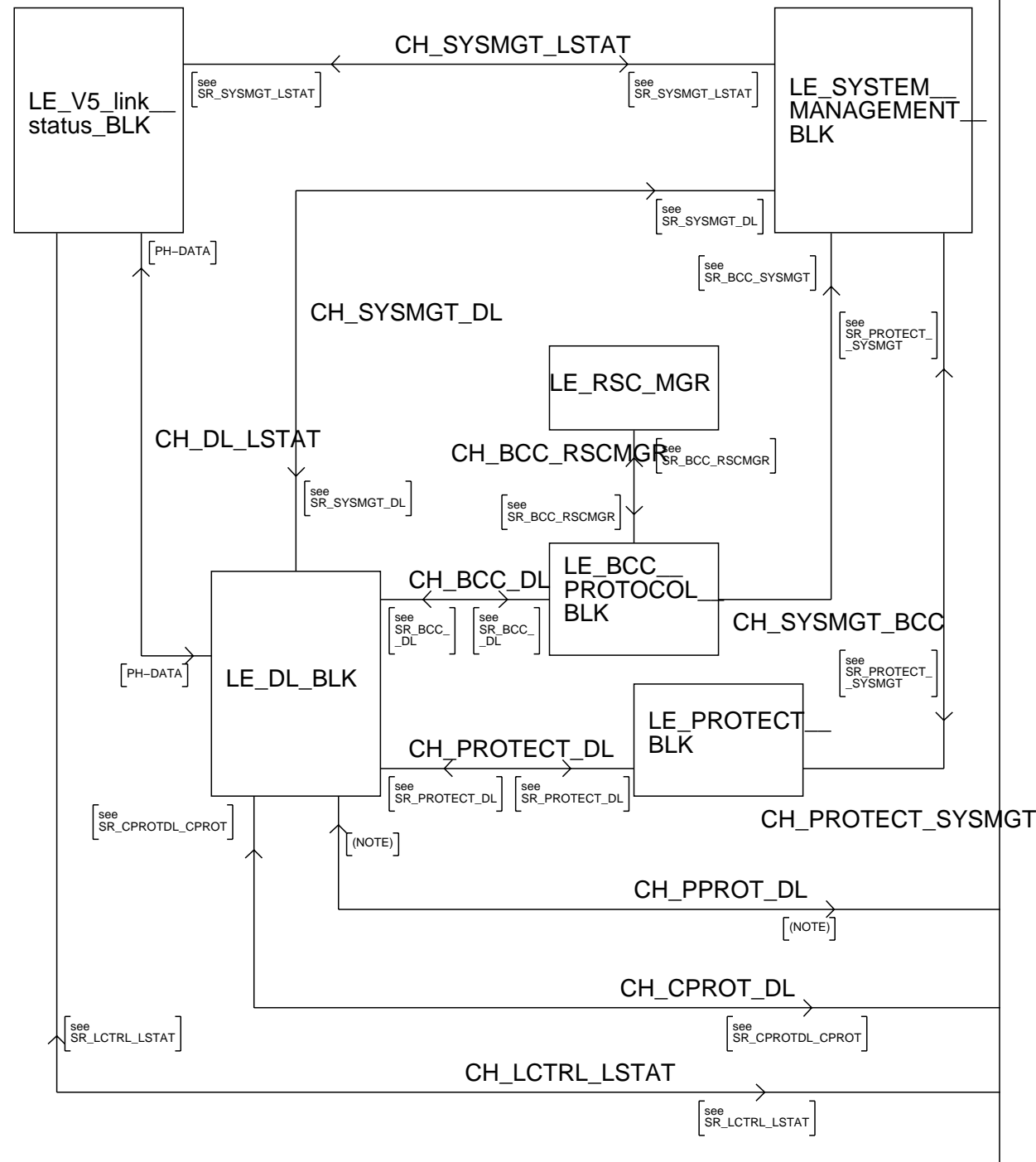
## Process Unblock\_all\_relevant\_ports

3(3)

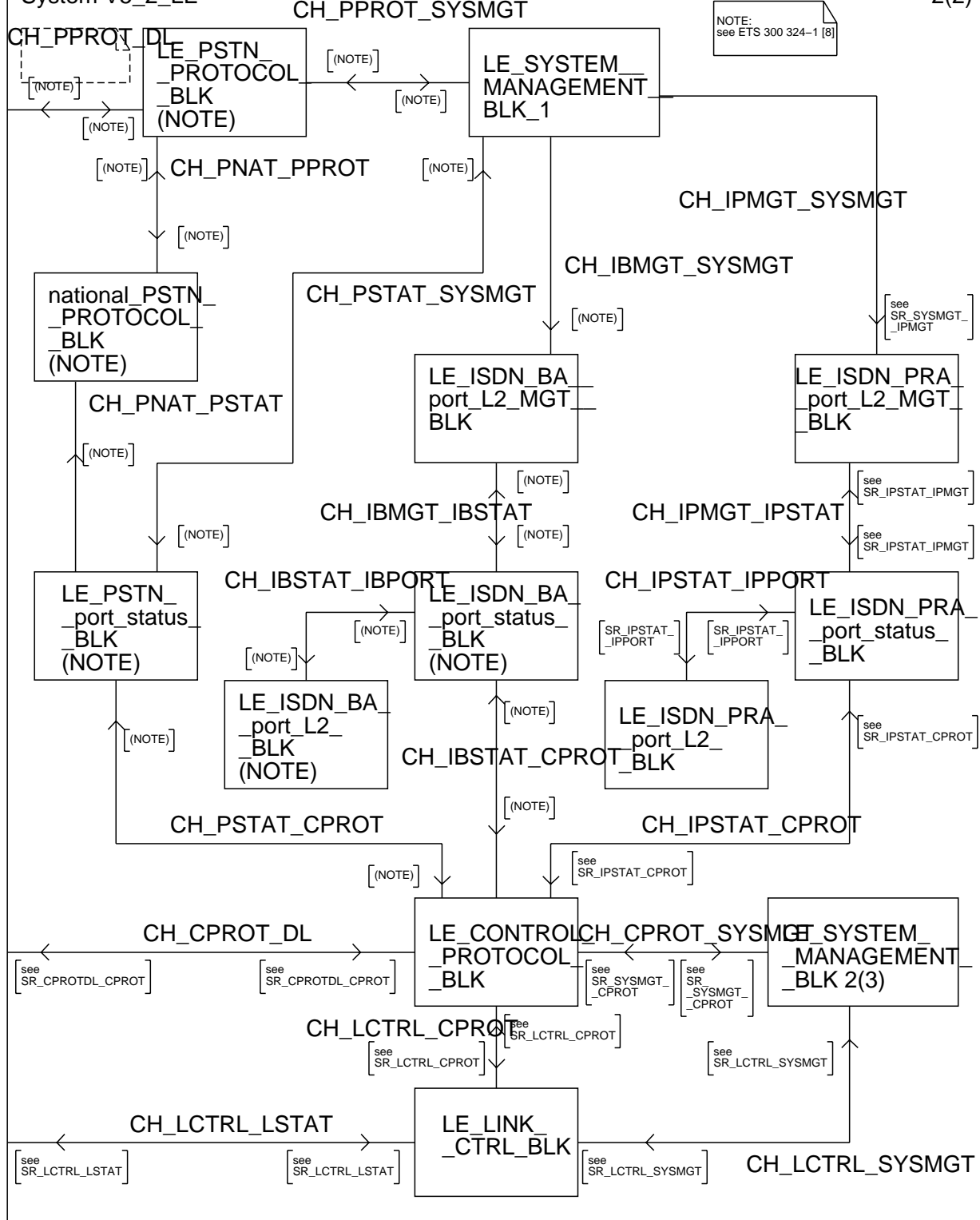




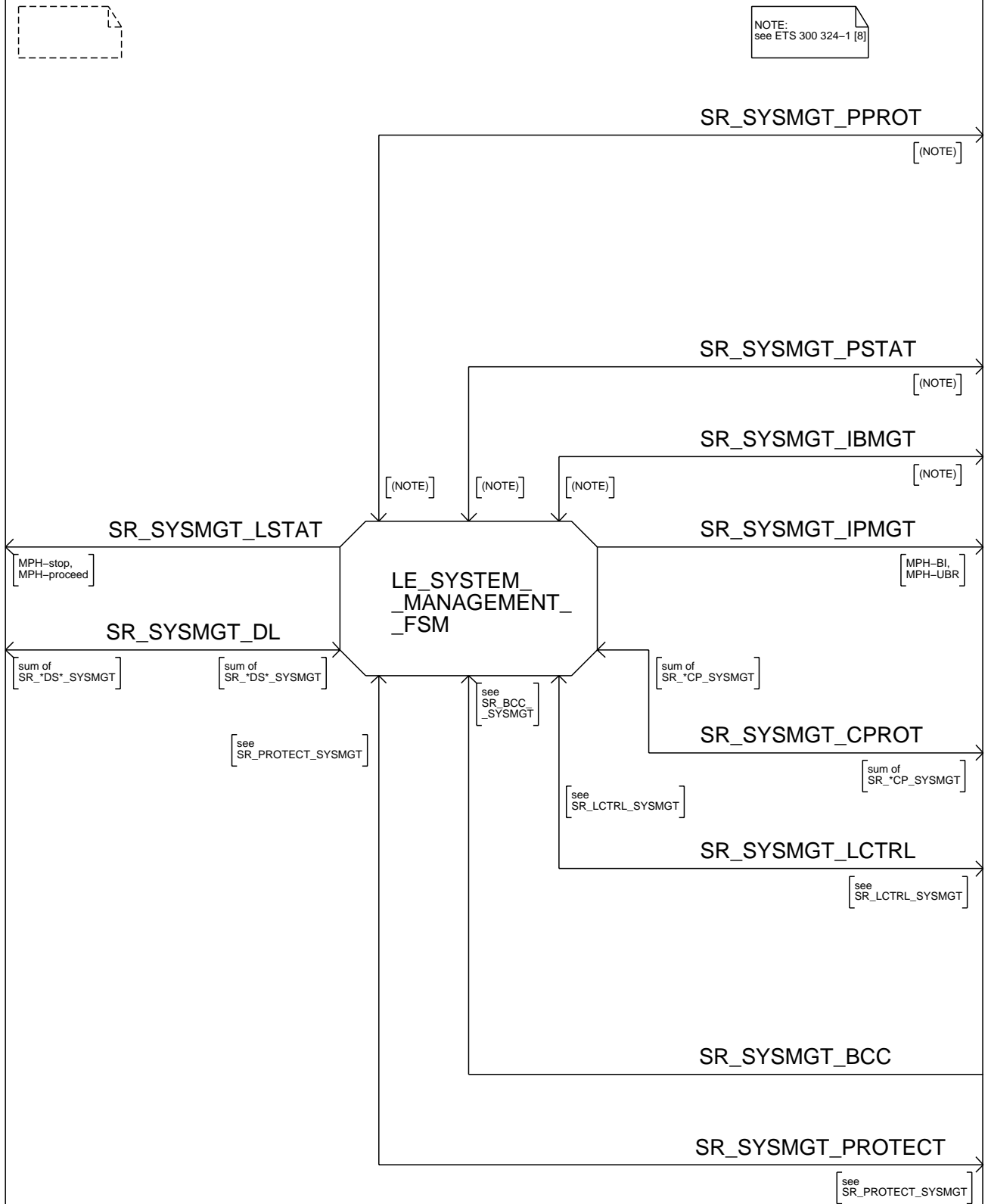
NOTE:  
see ETS 300 324-1 [8]





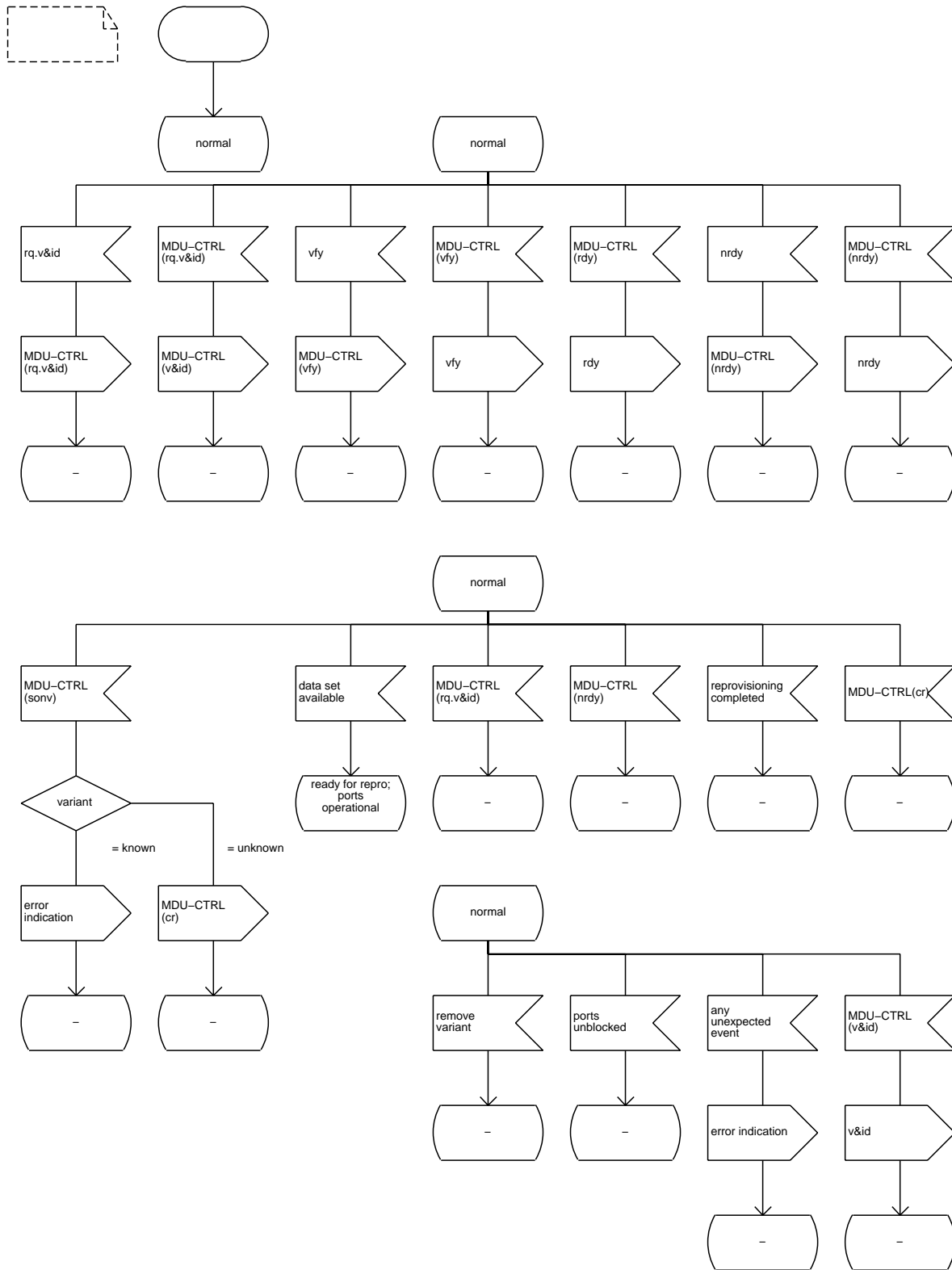


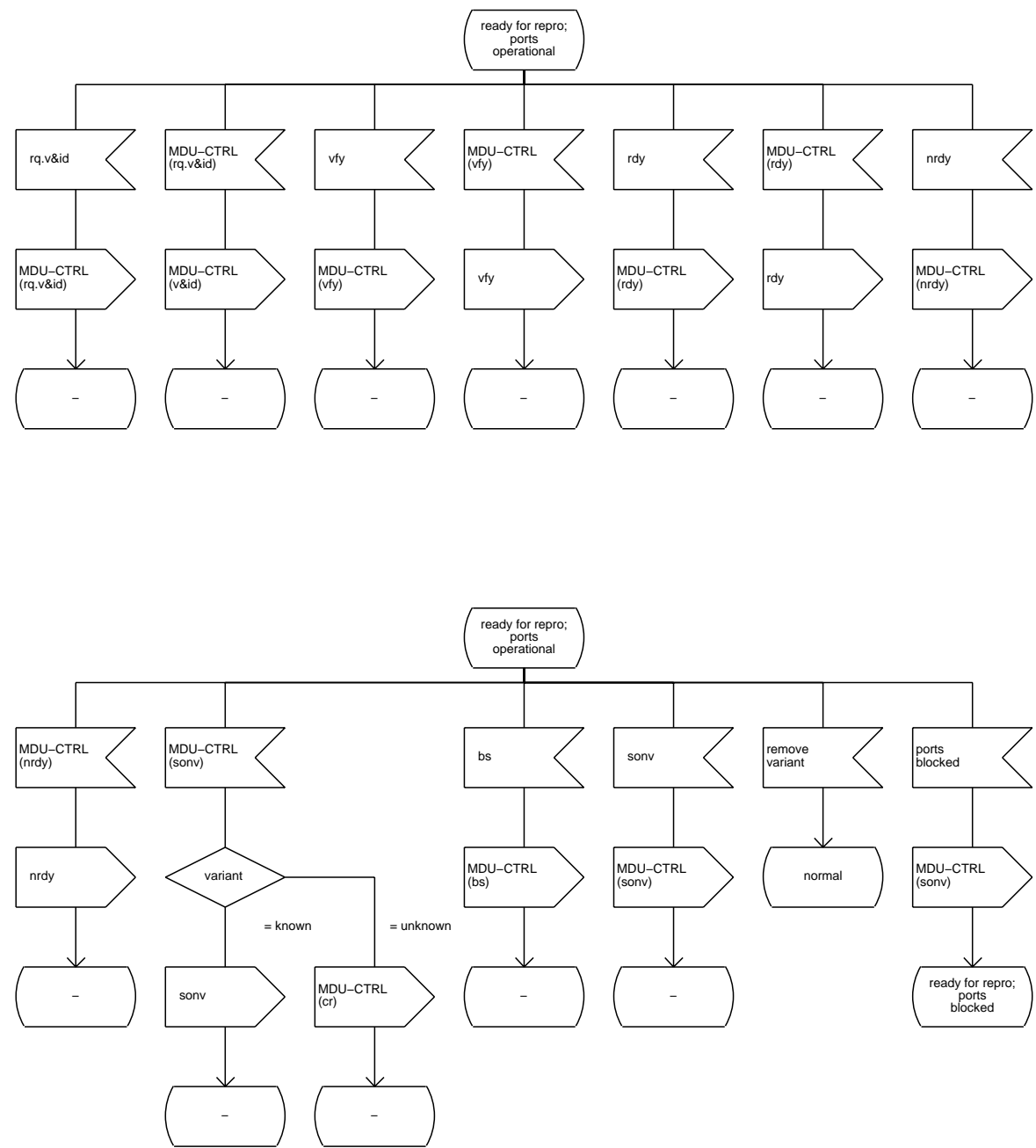
NOTE:  
see ETS 300 324-1 [8]

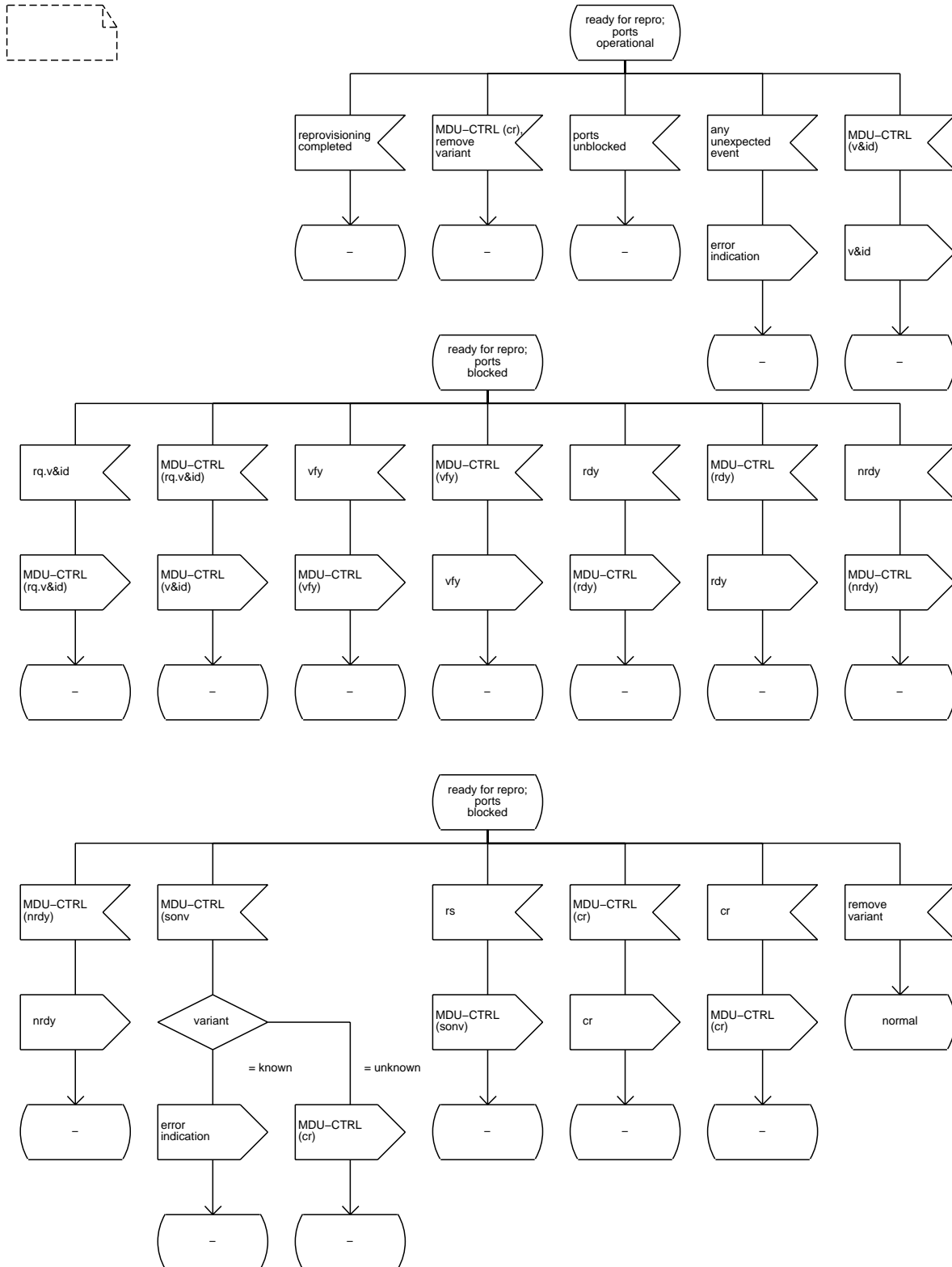


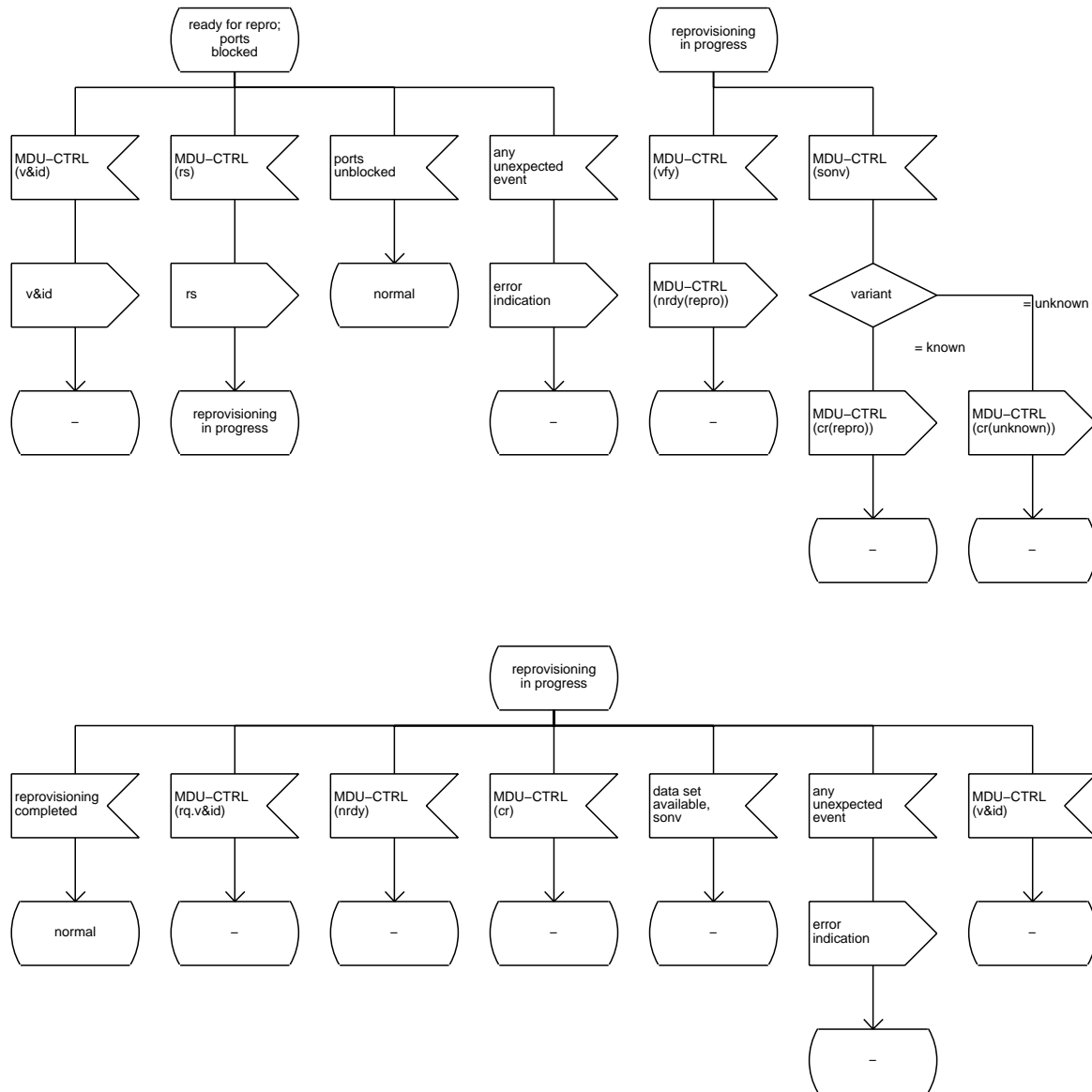
# Process LEREPRO

1(4)





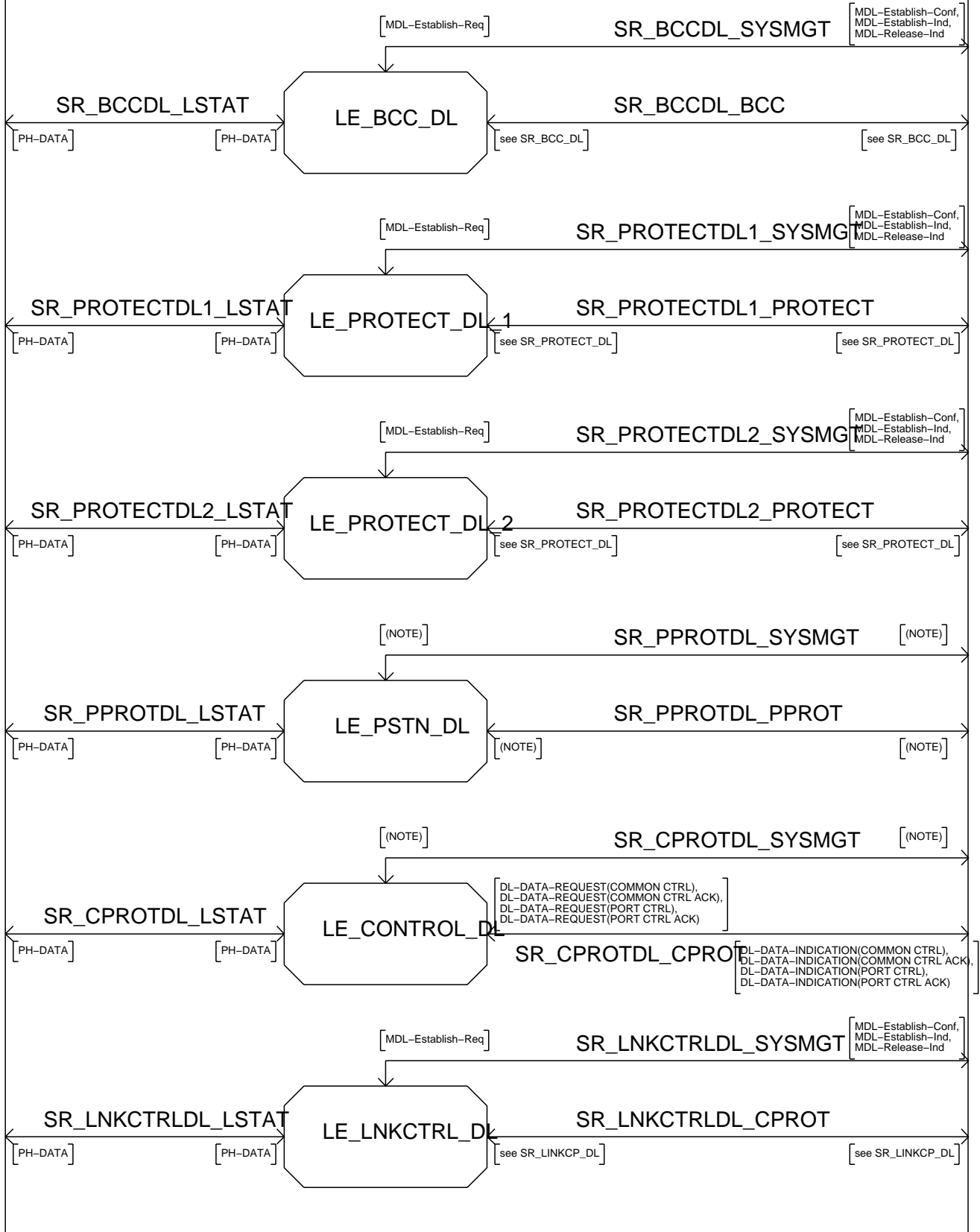


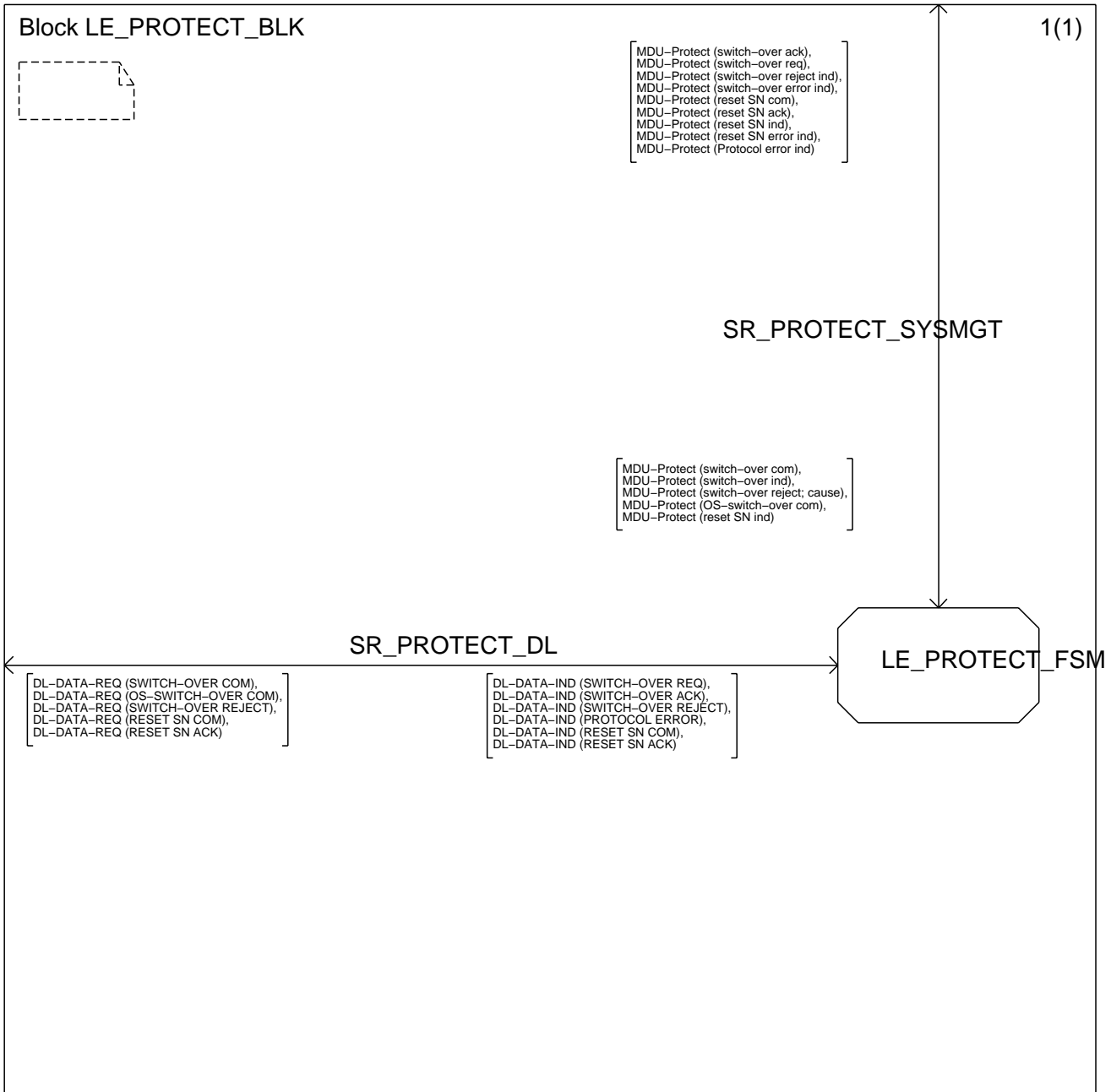


# Block LE\_DL\_BLK

1(1)

NOTE:  
see ETS 300 324-1 [8]

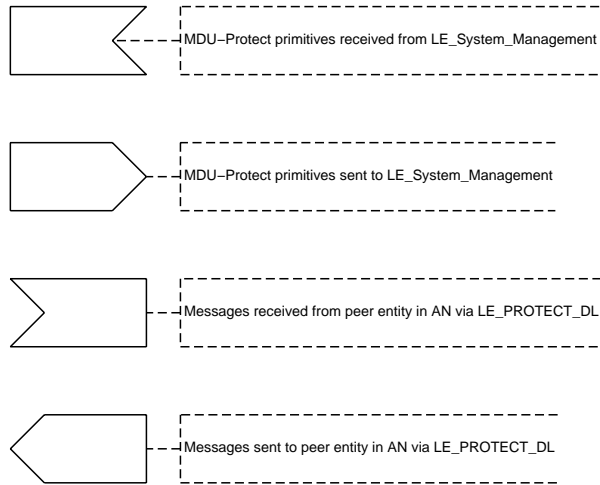




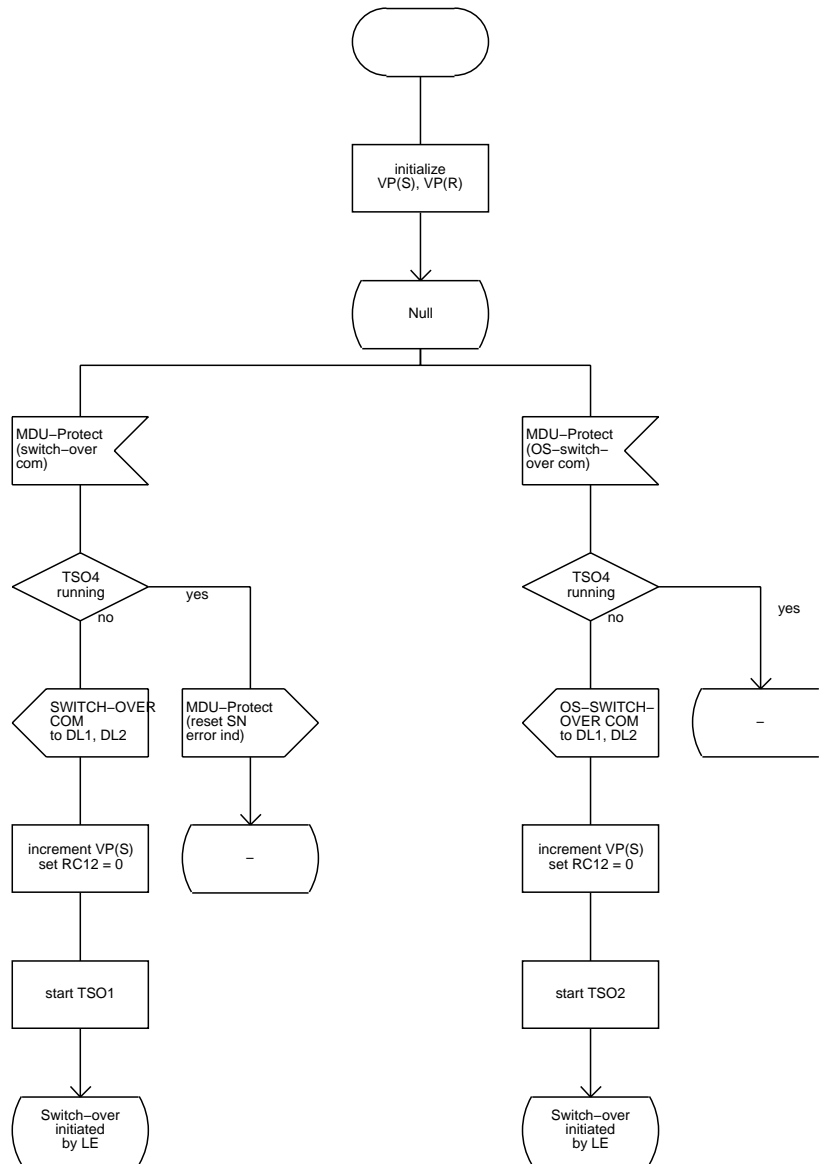




LE\_PROTECT\_FSM  
message direction description



State  
SOLE0 (Protection protocol)

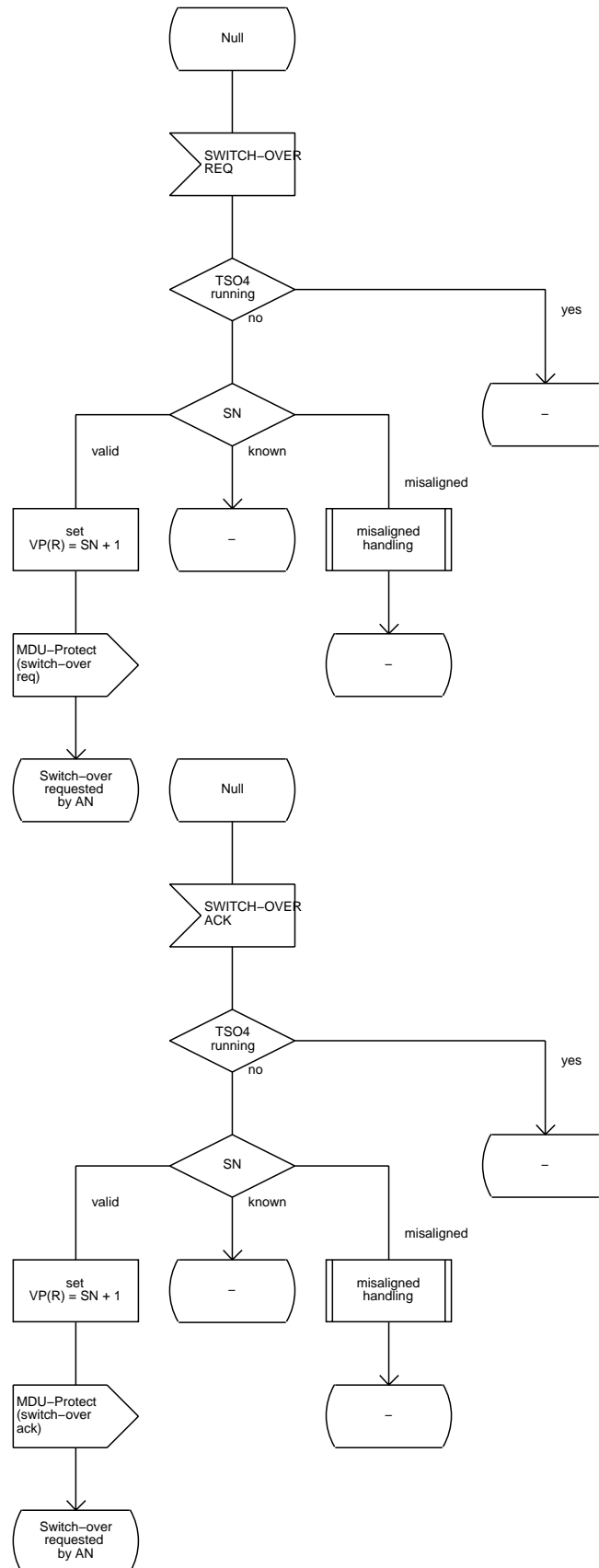


# Process LE\_PROTECT\_FSM

3(8)

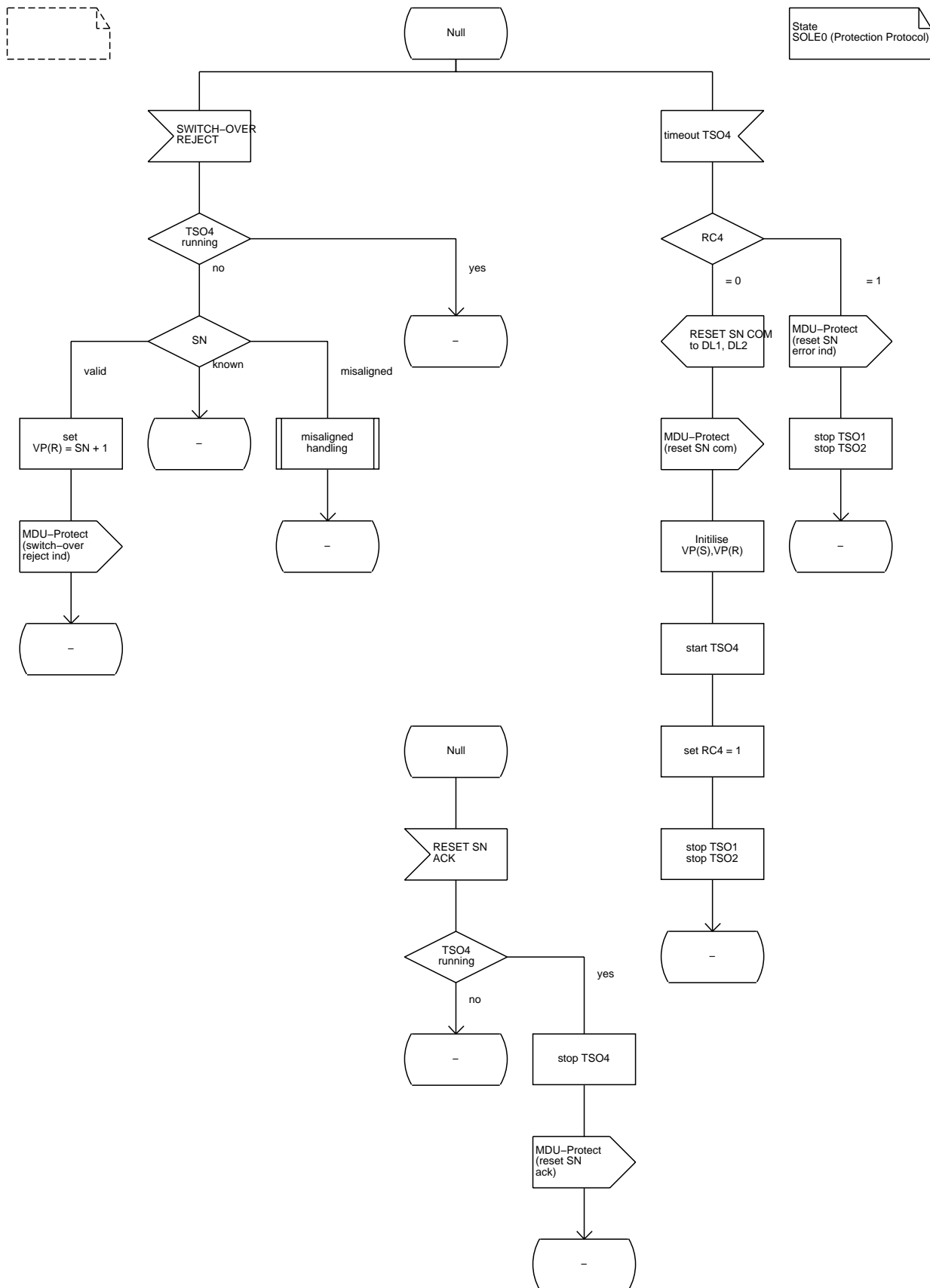


State  
SOLE0 (Protection protocol)



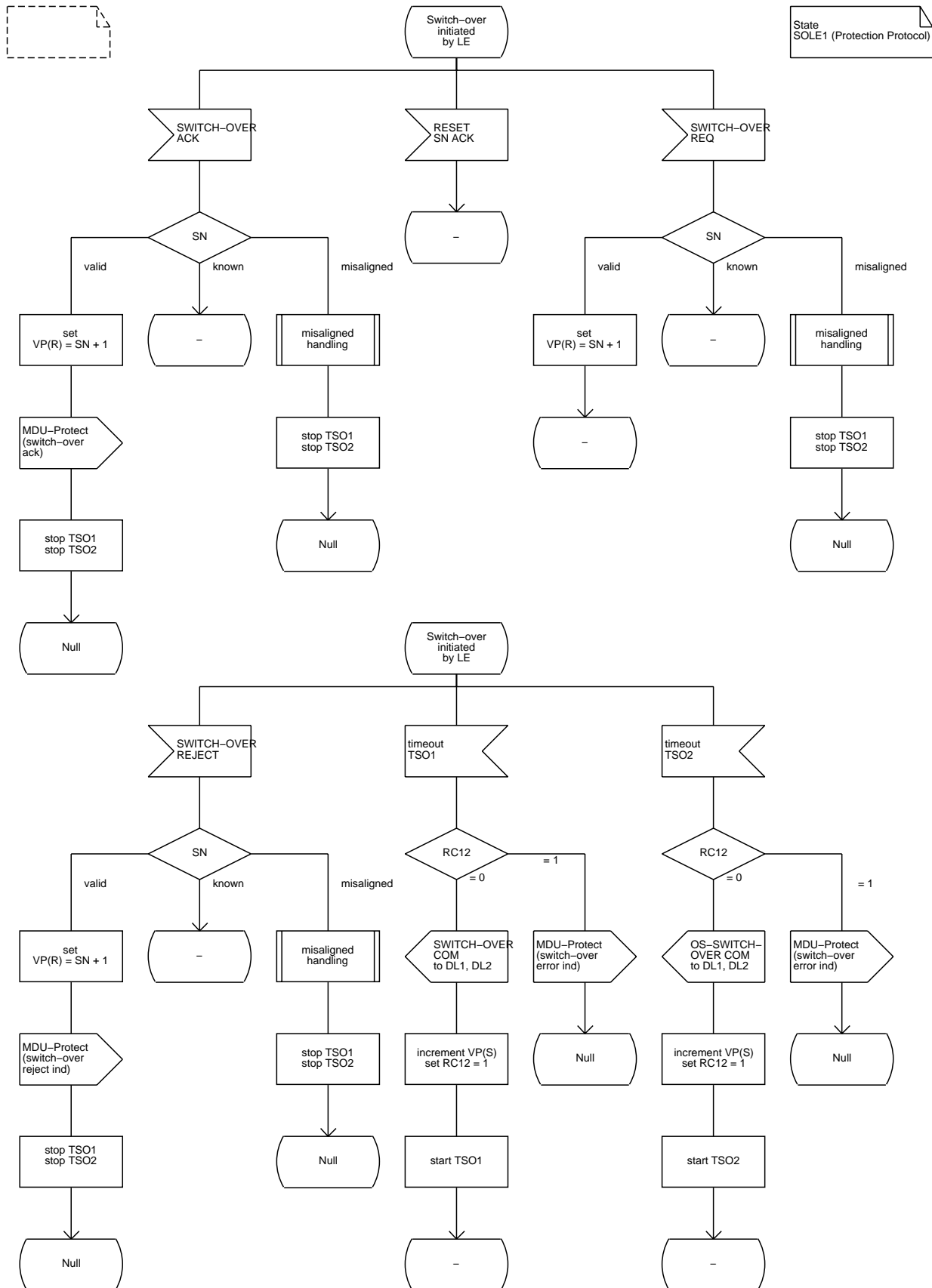
# Process LE\_PROTECT\_FSM

4(8)



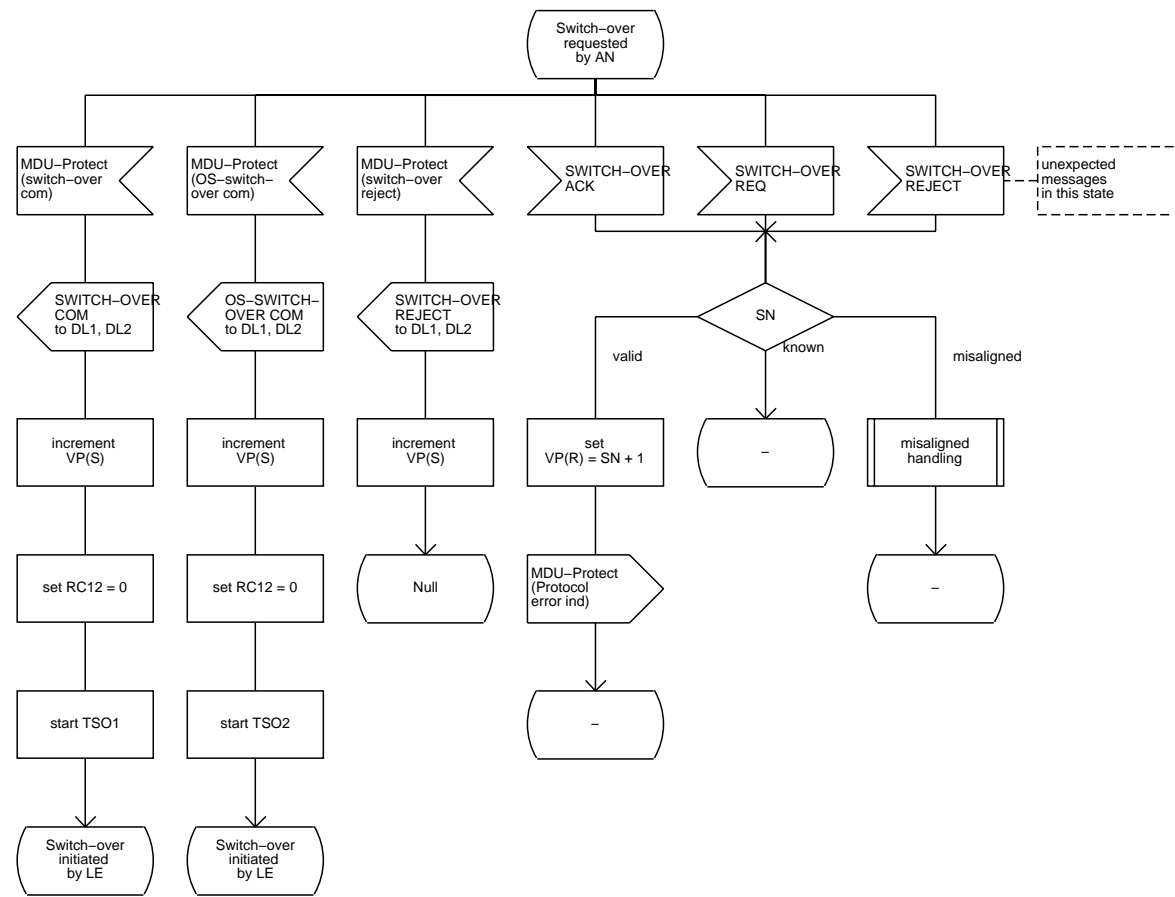
# Process LE\_PROTECT\_FSM

5(8)



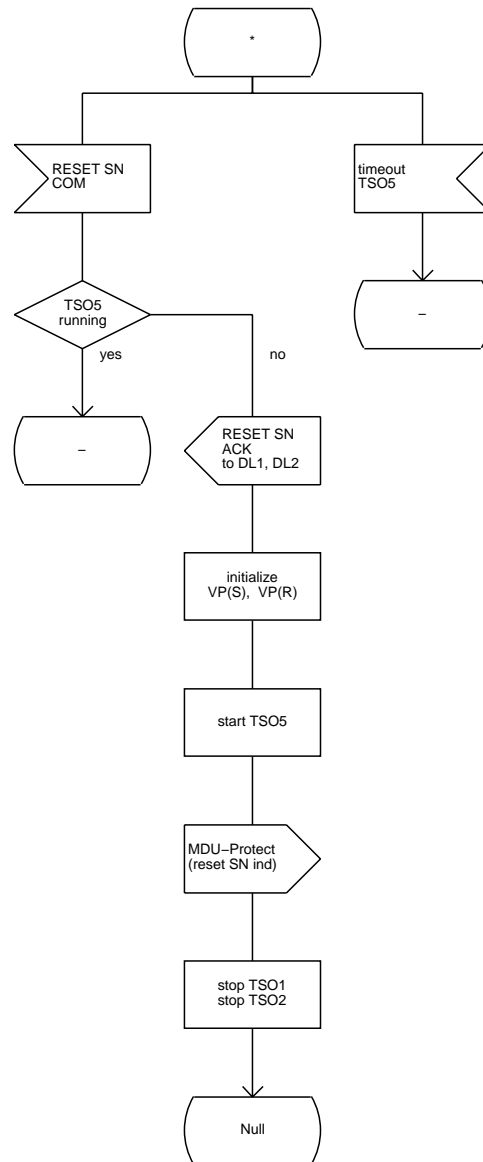


State  
SOLE2 (Protection Protocol)



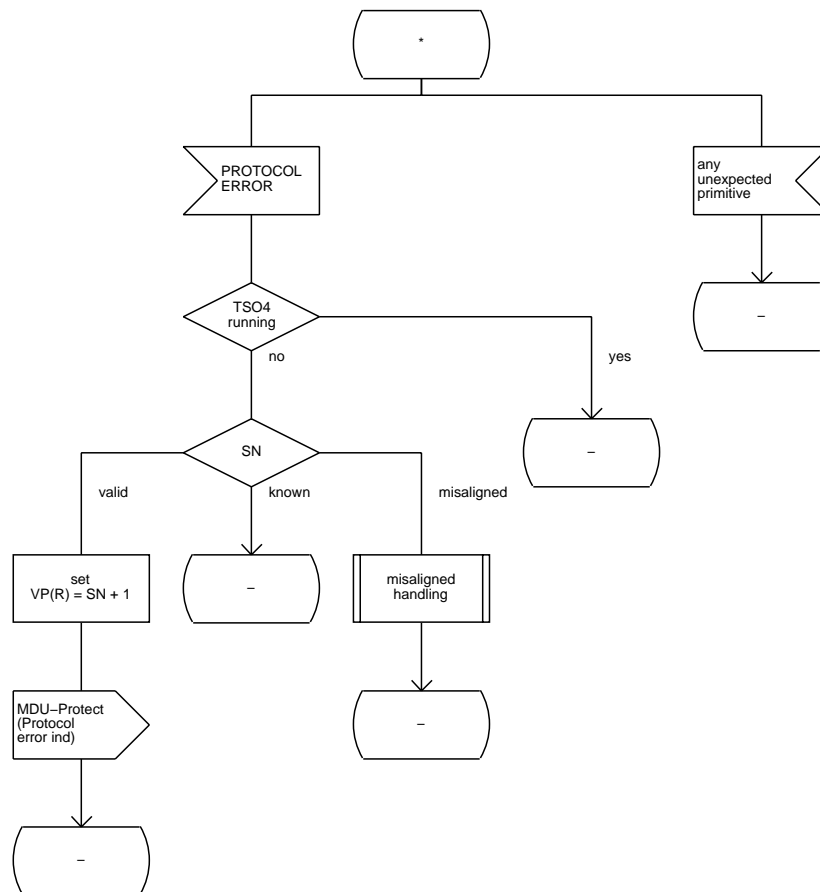


Any State  
(Protection Protocol)

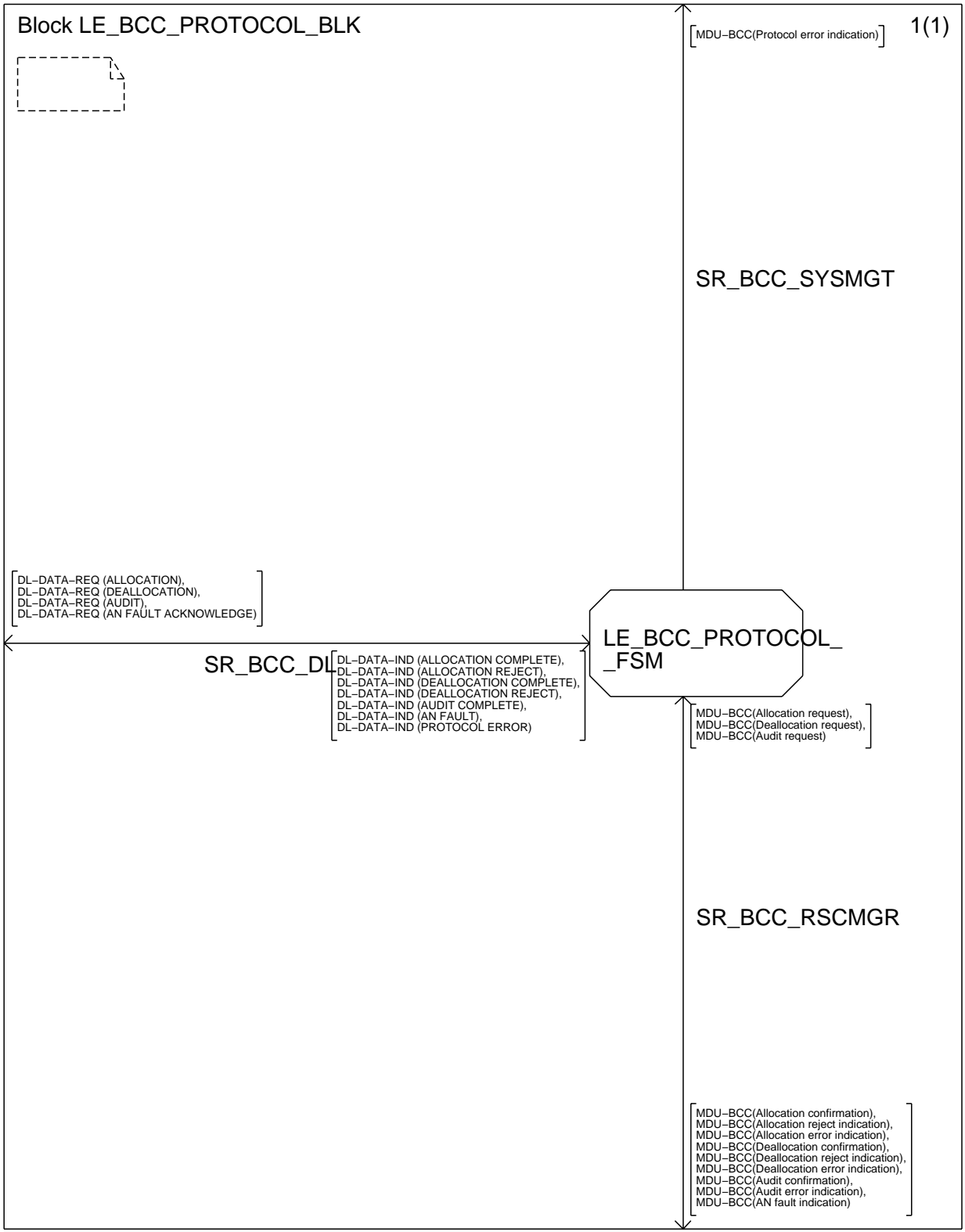




Any State  
(Protection Protocol)

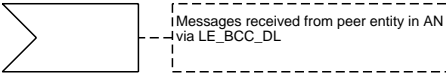
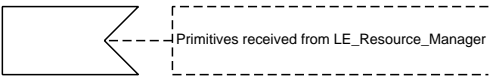






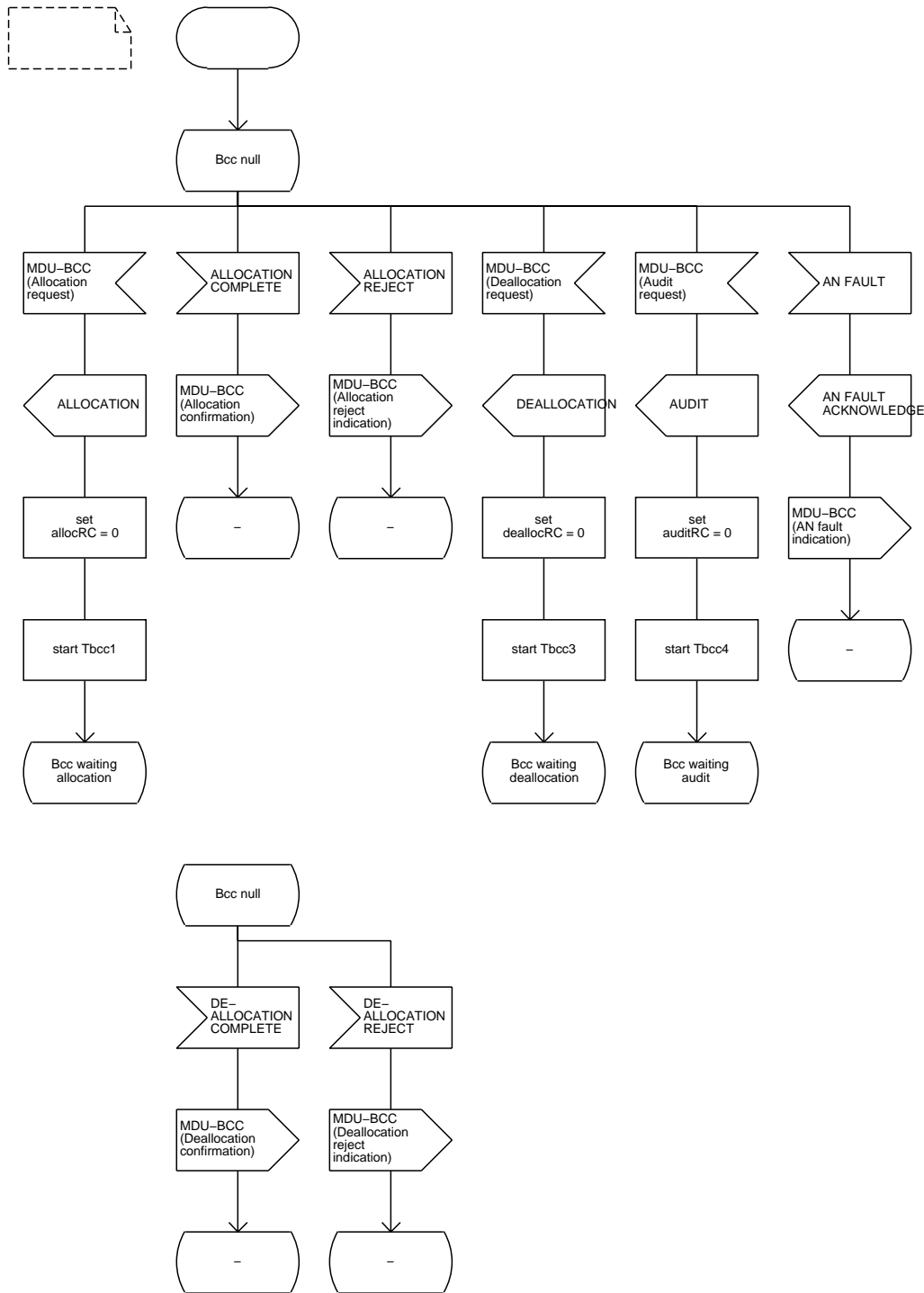


LE\_BCC\_PROTOCOL\_FSM  
message direction description



# Process LE\_BCC\_PROTOCOL\_FSM

2(6)

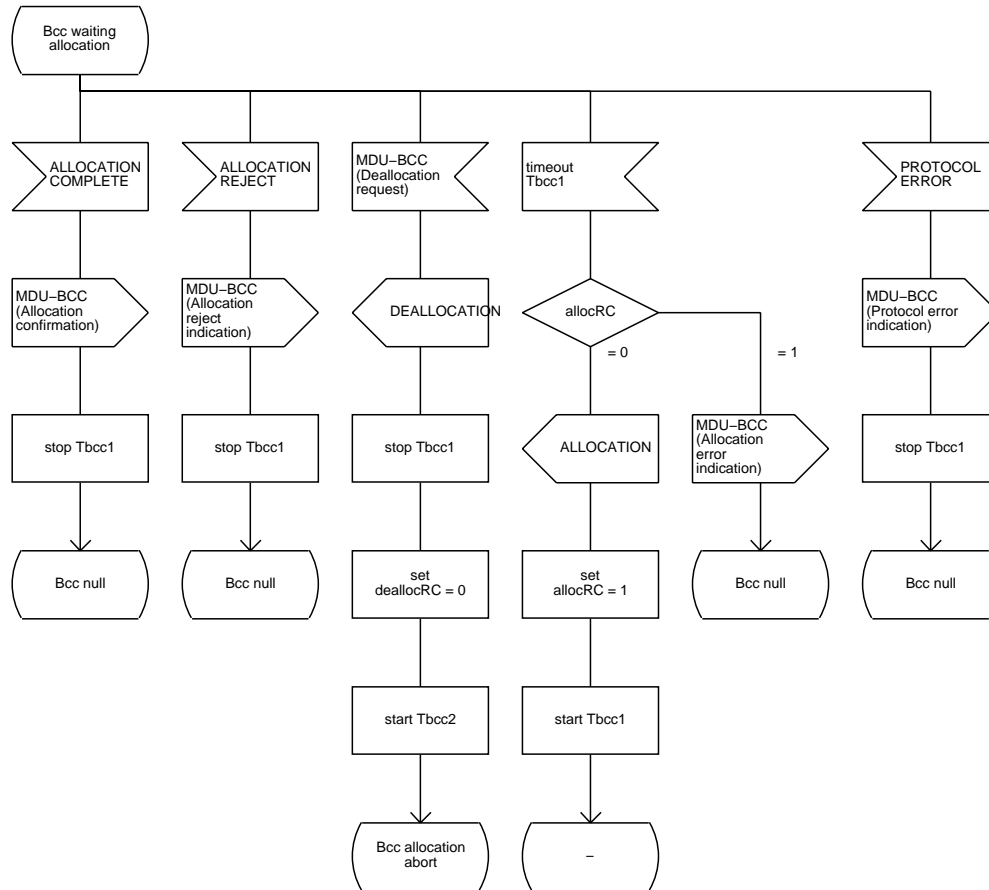


# Process LE\_BCC\_PROTOCOL\_FSM

3(6)

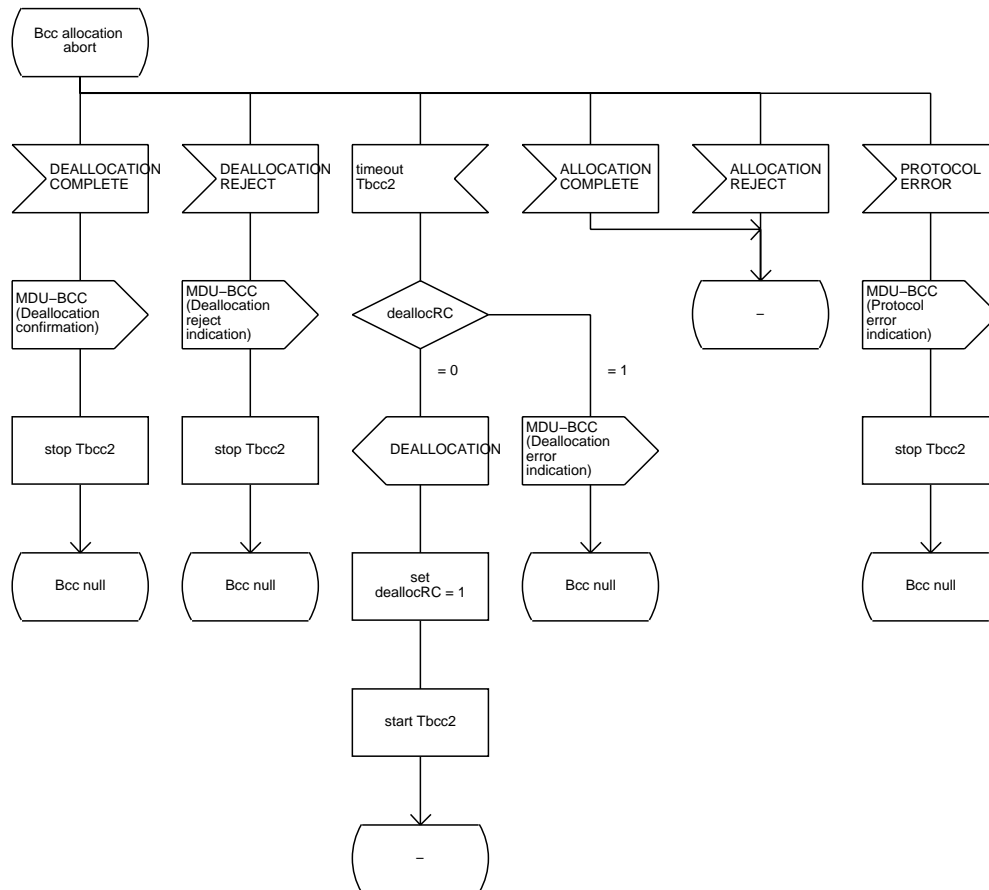


State  
LEBcc1 (BCC)



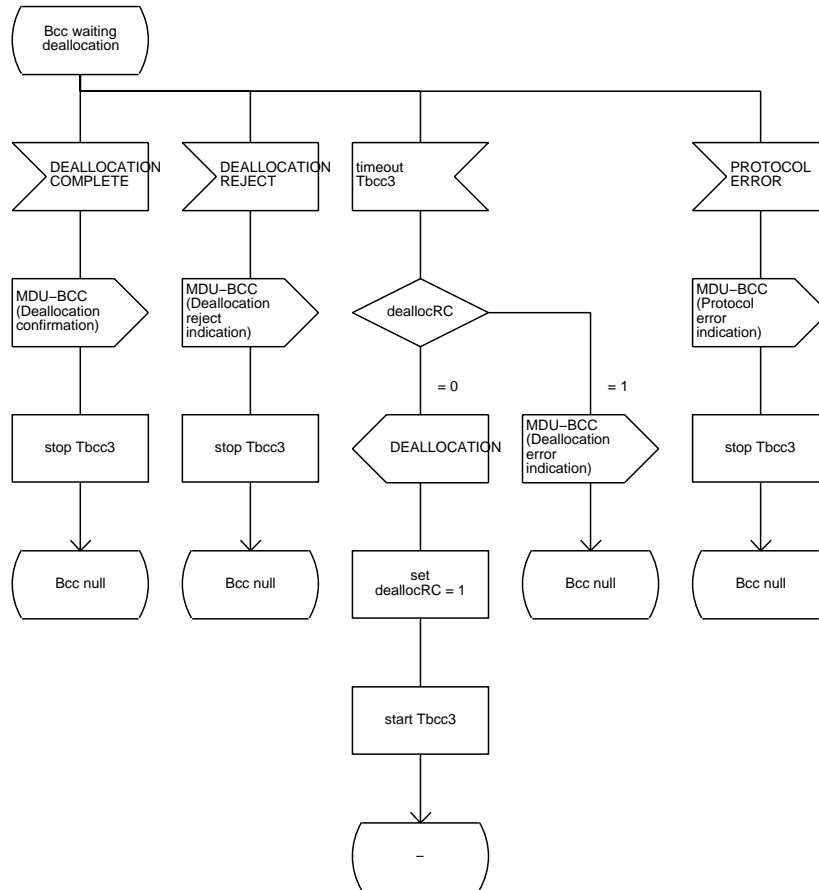


State  
LEBcc2 (BCC)

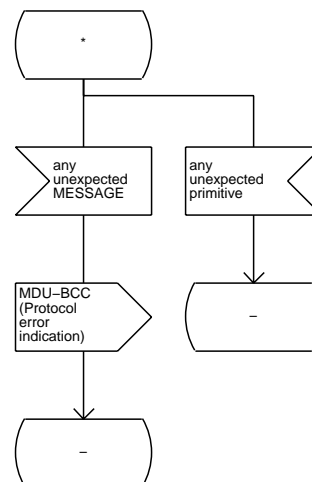
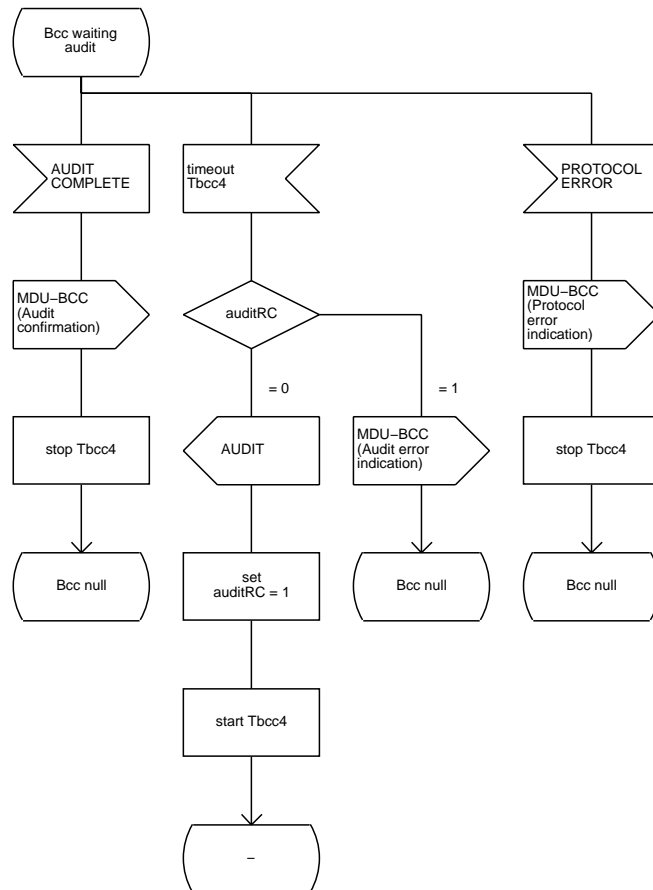




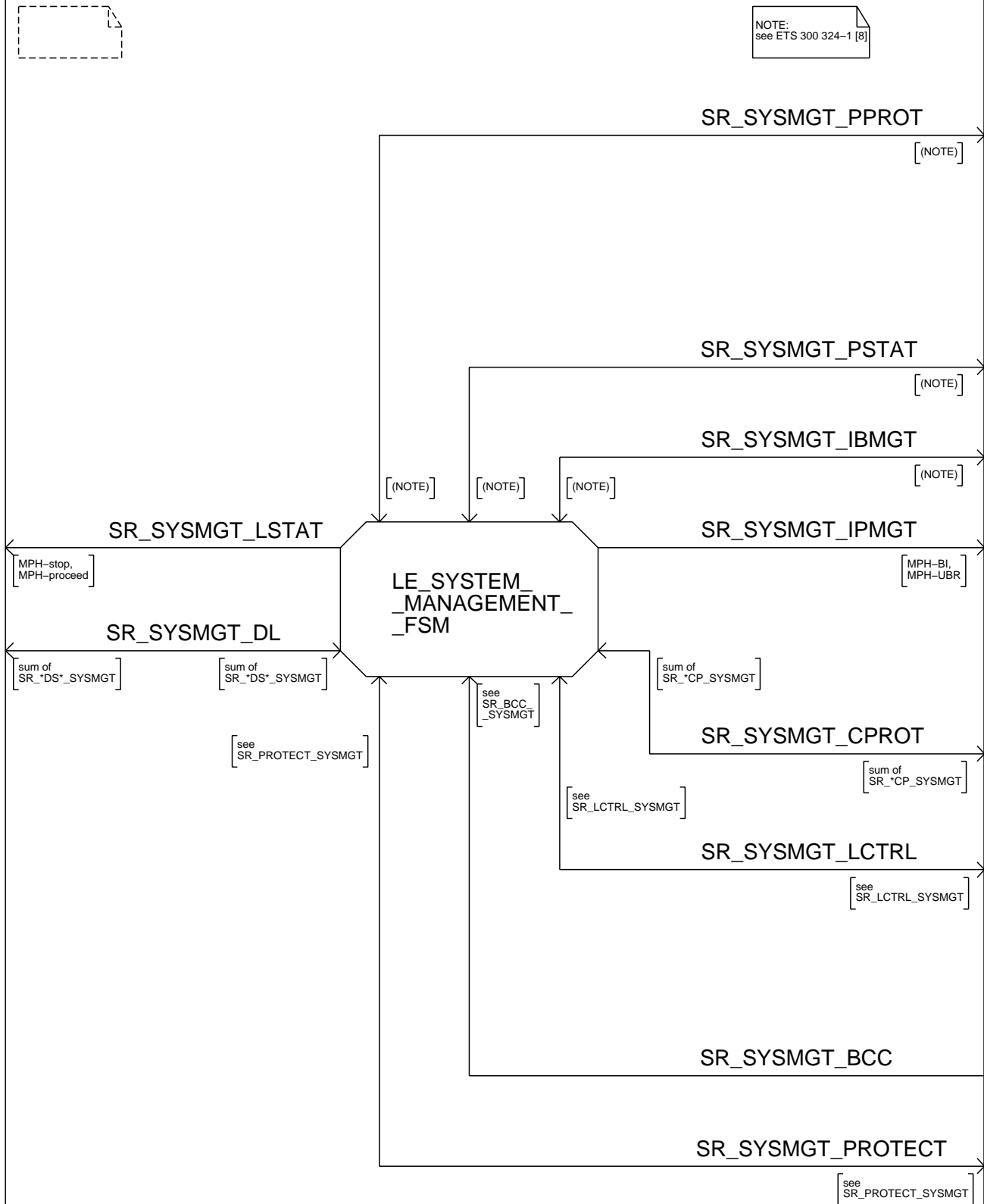
State  
LEBcc3 (BCC)



State  
LEBcc4 (BCC)



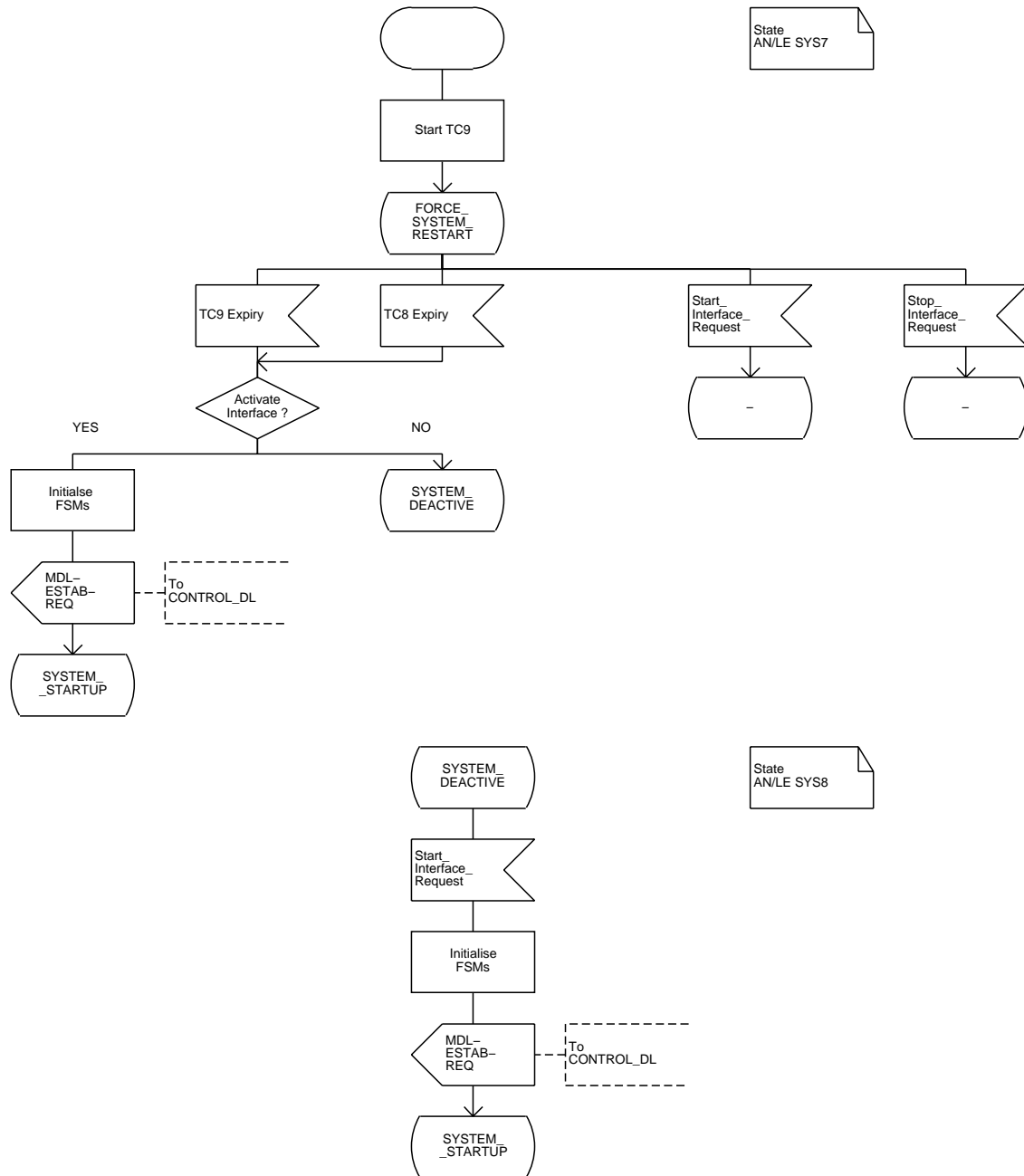
NOTE:  
see ETS 300 324-1 [8]





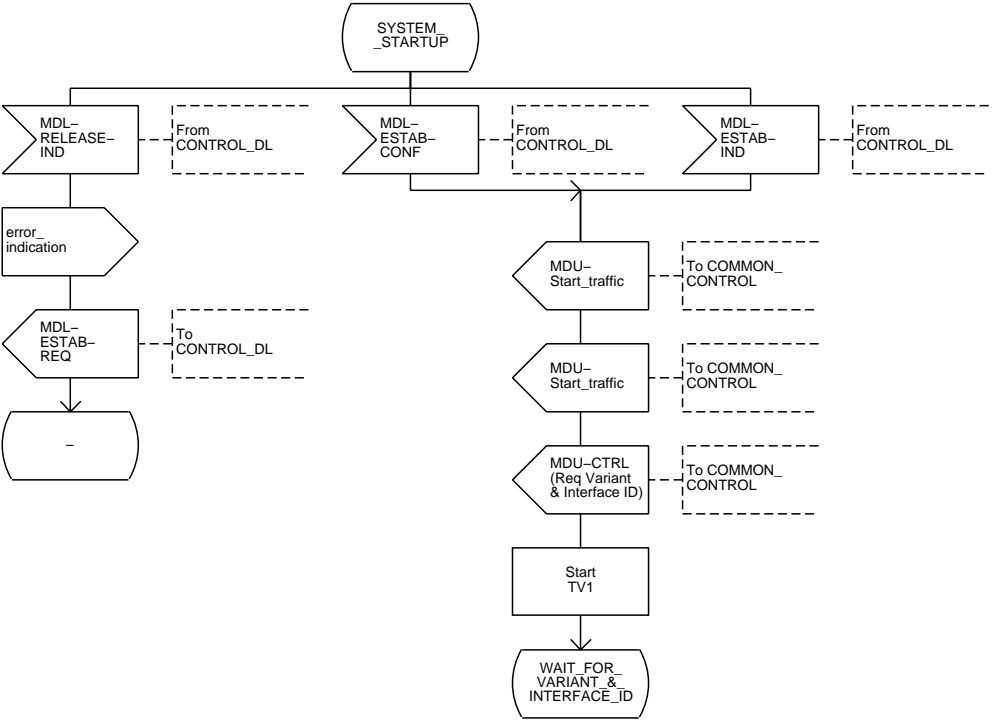
# Process LE\_SYSTEM\_MANAGEMENT

## SYS7\_8\_Force\_System\_Restart(7)



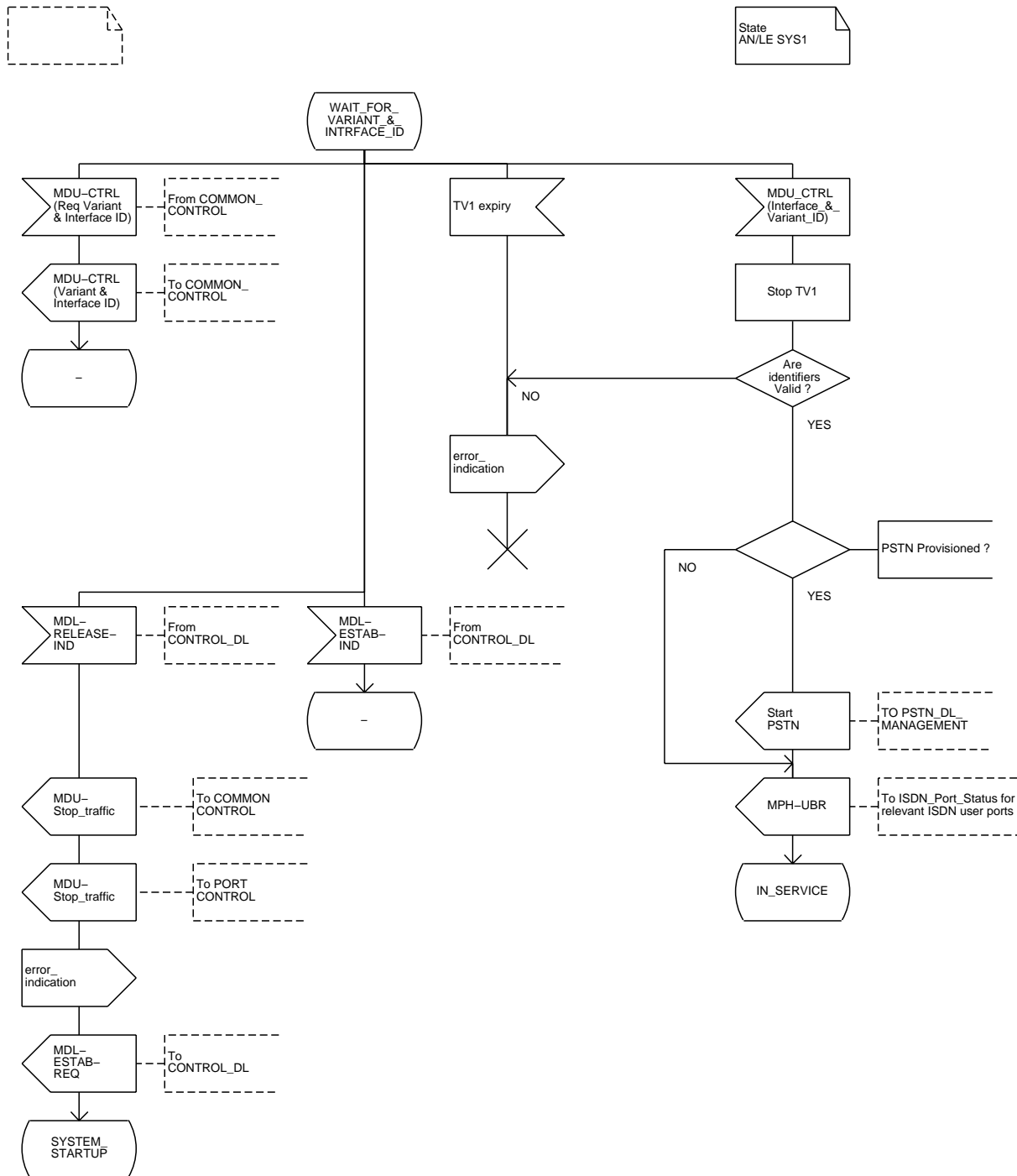


State  
AN/LE SYS0



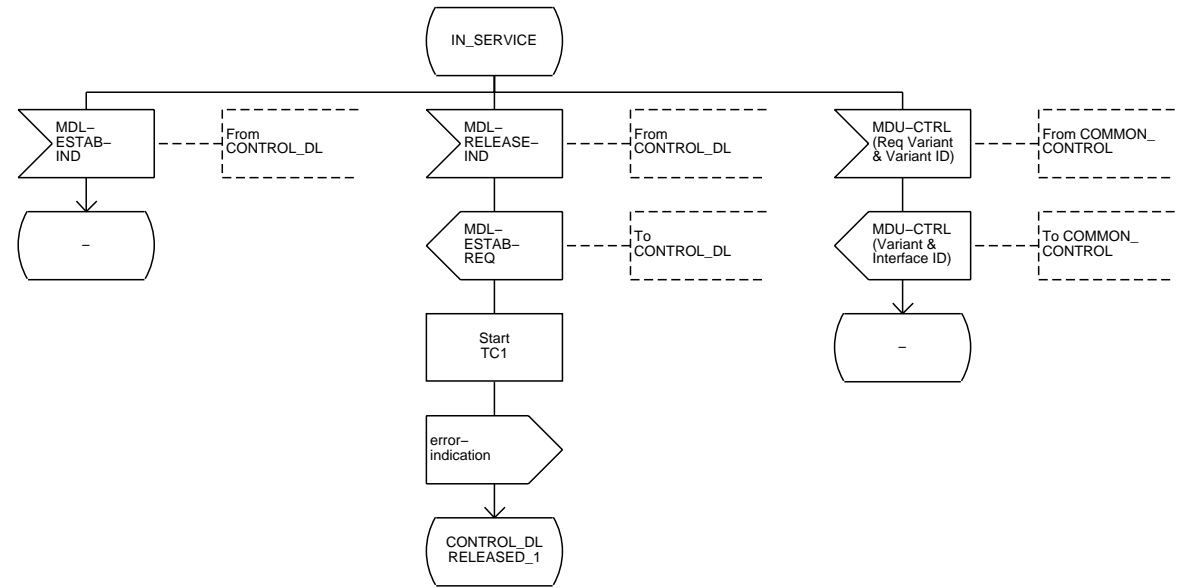
# Process LE\_SYSTEM\_MANAGEMENT

SYS1\_Wait\_Var\_and\_if\_ID(7)



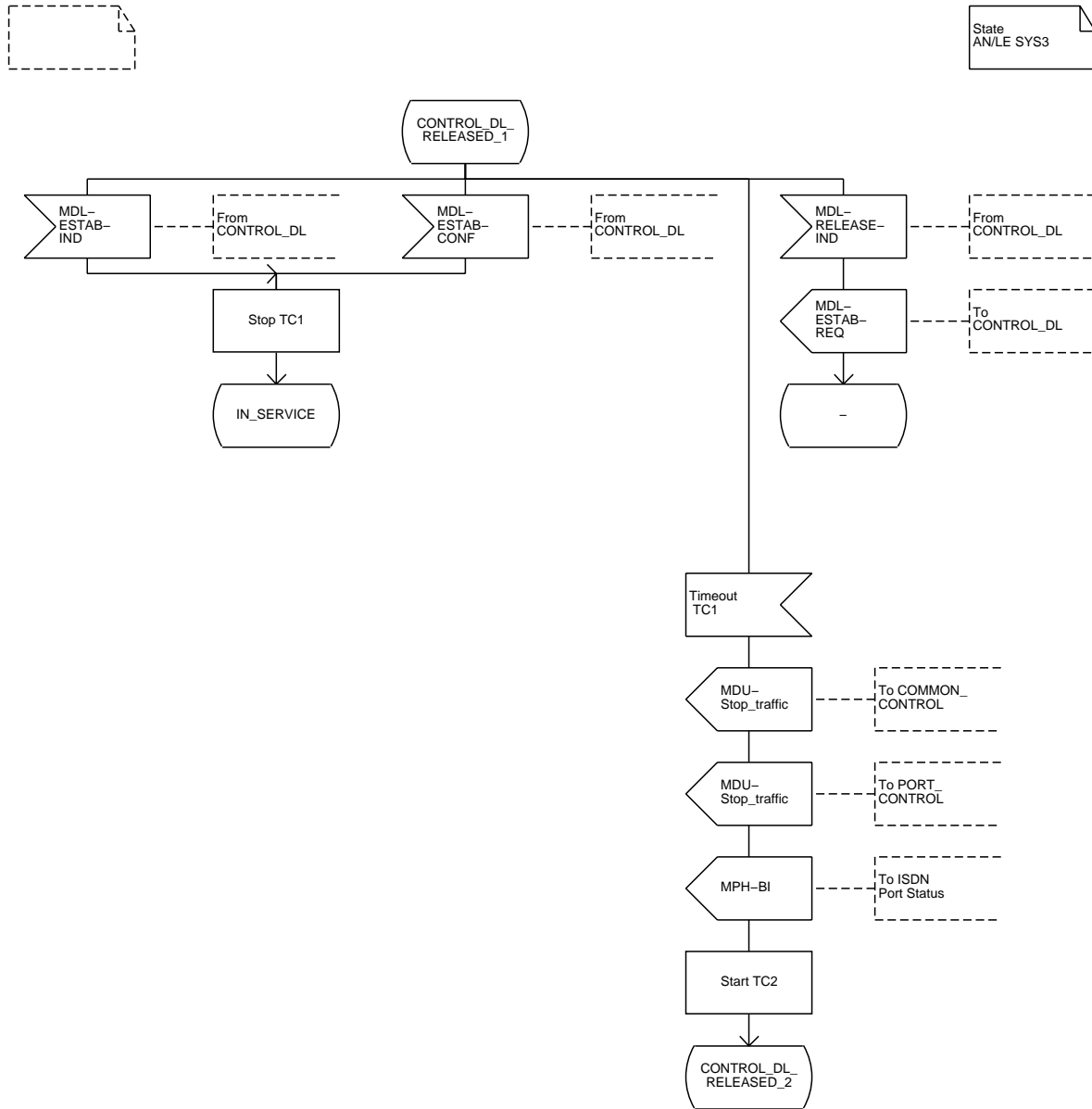


State  
AN/LE SYS2



# Process LE\_SYSTEM\_MANAGEMENT

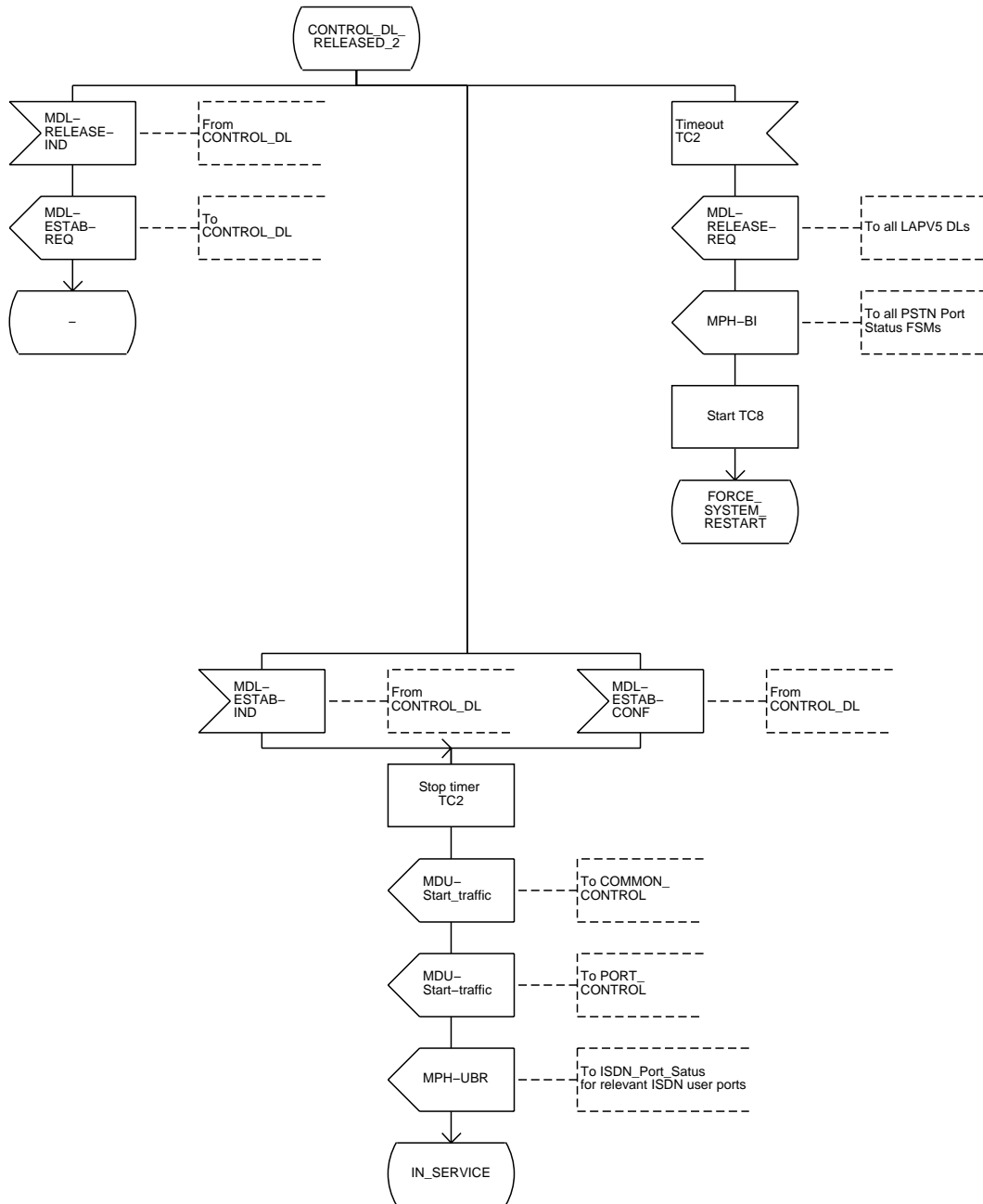
## SYS3\_Control\_DL\_Released1(7)



# Process LE\_SYSTEM\_MANAGEMENT

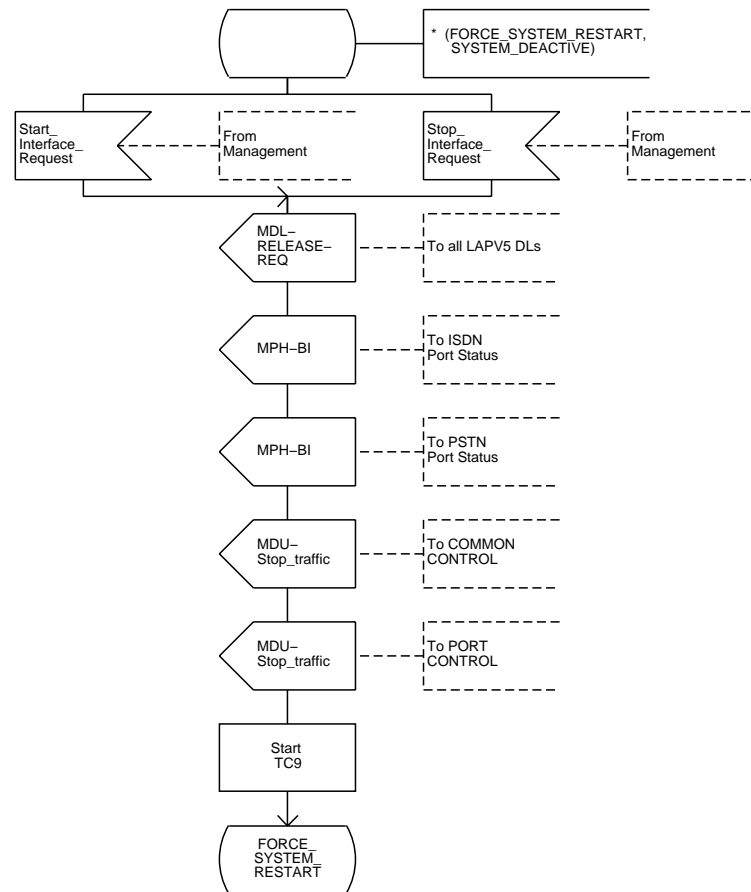
## SYS4\_Control\_DL\_Released2(7)

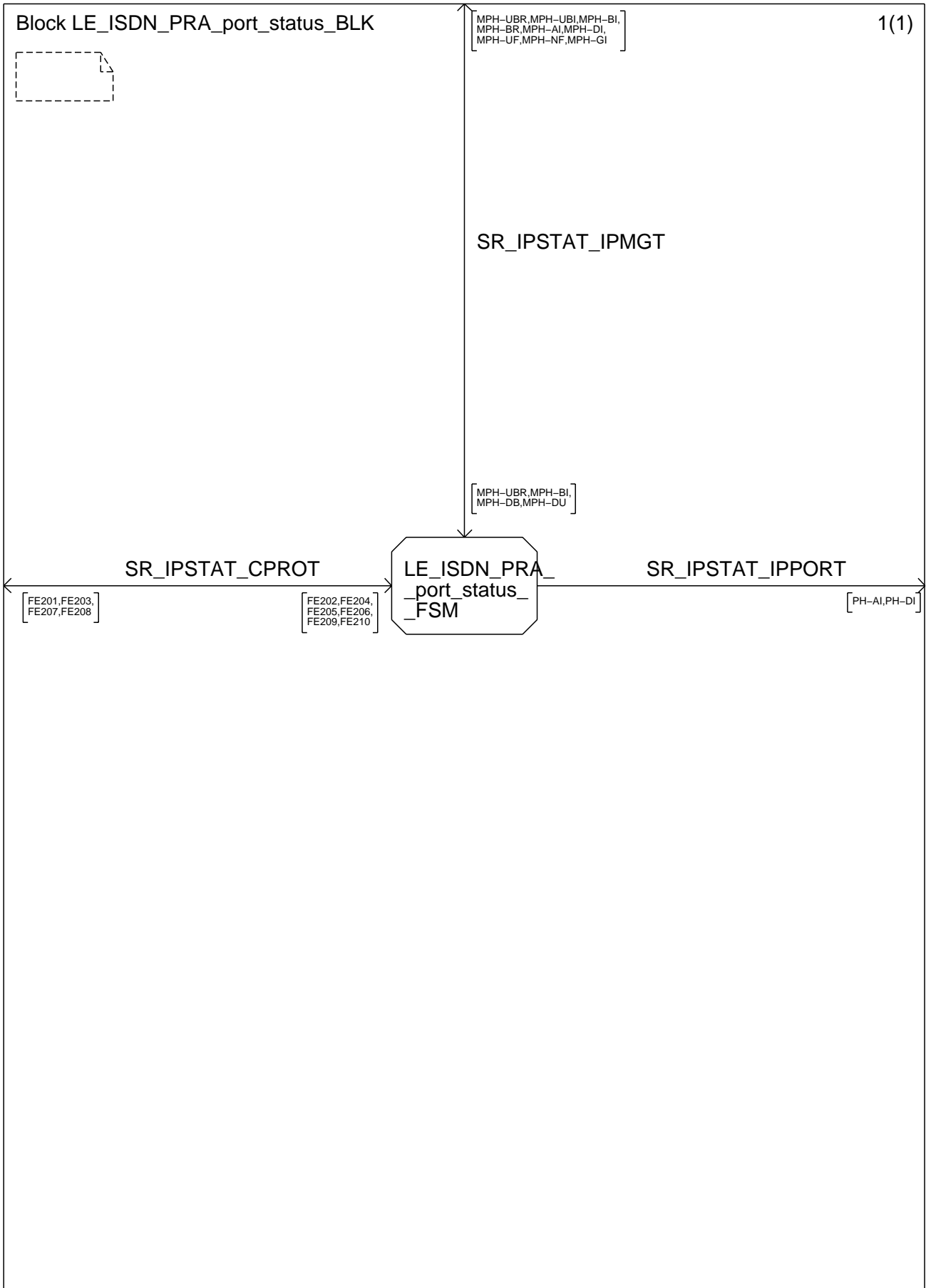
State  
AN/LE SYS4



# Process LE\_SYSTEM\_MANAGEMENT

SYS\_Any\_State(7)

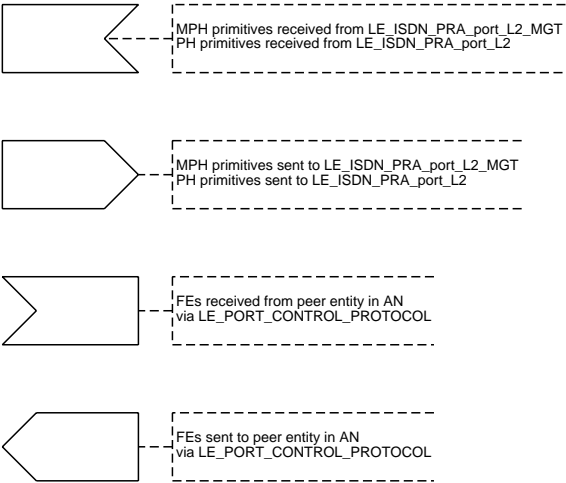






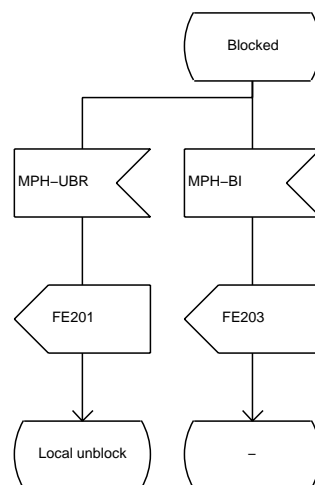
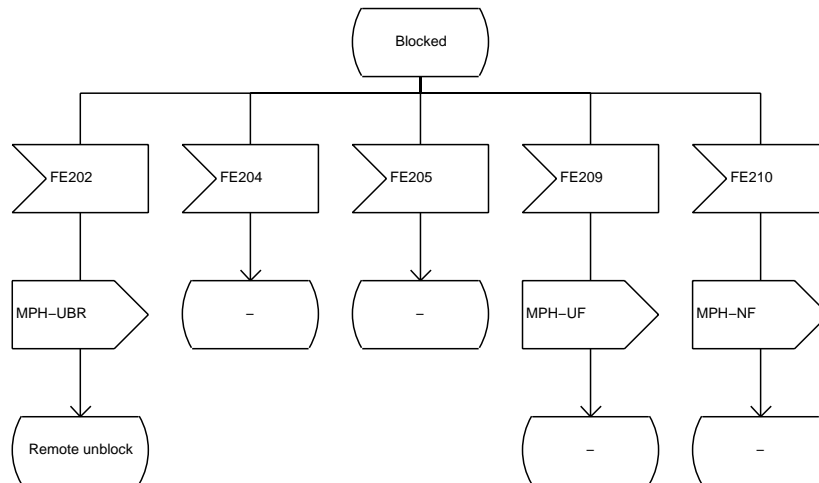


LE\_ISDN\_PRA\_port\_status\_FSM  
message direction description



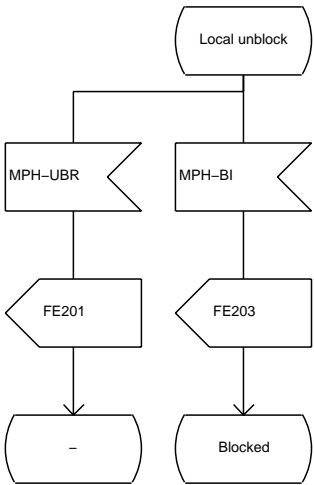
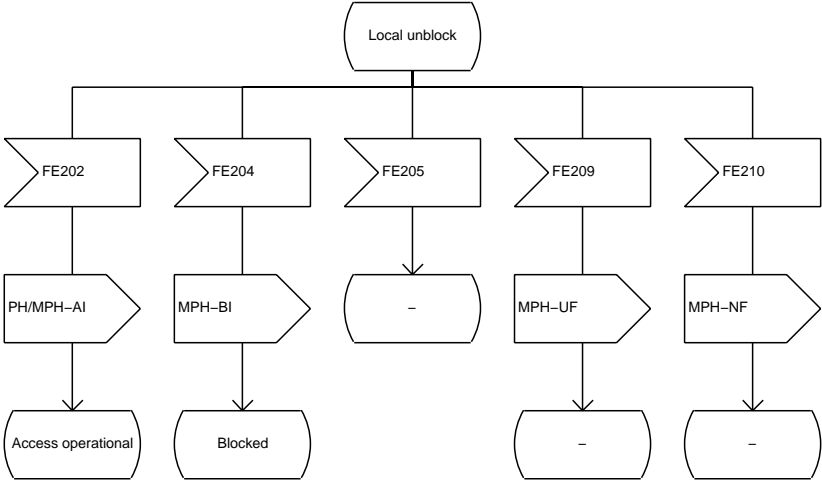


State  
LE1.0 (ISDN PRA port)



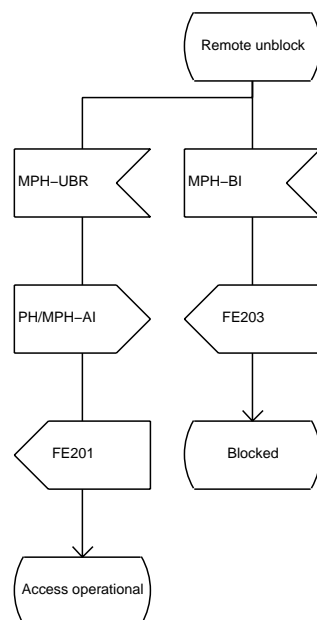
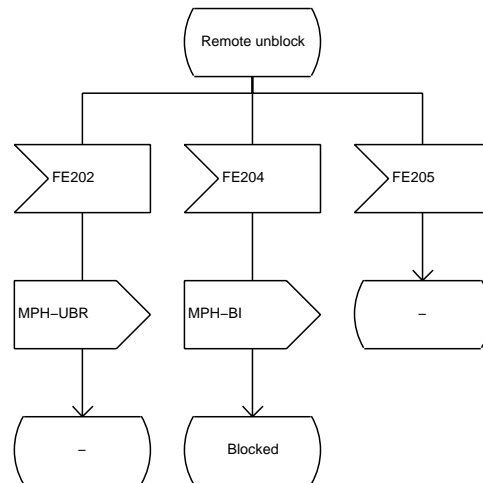


State  
LE1.1 (ISDN PRA port)



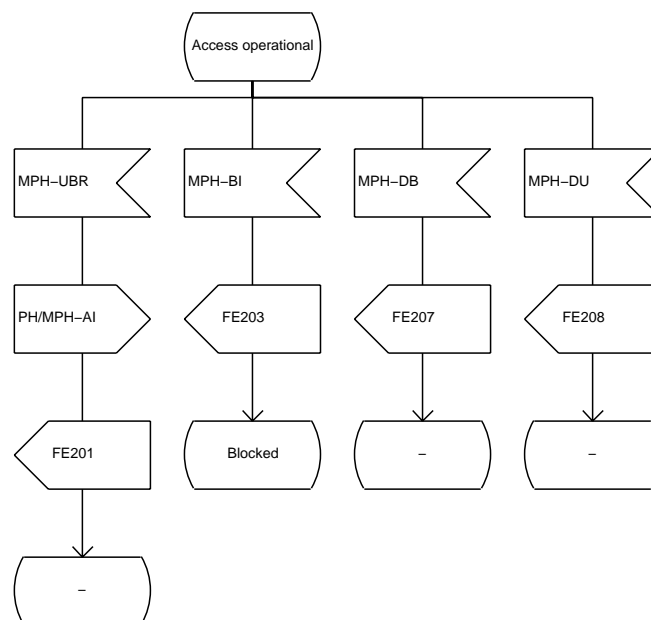
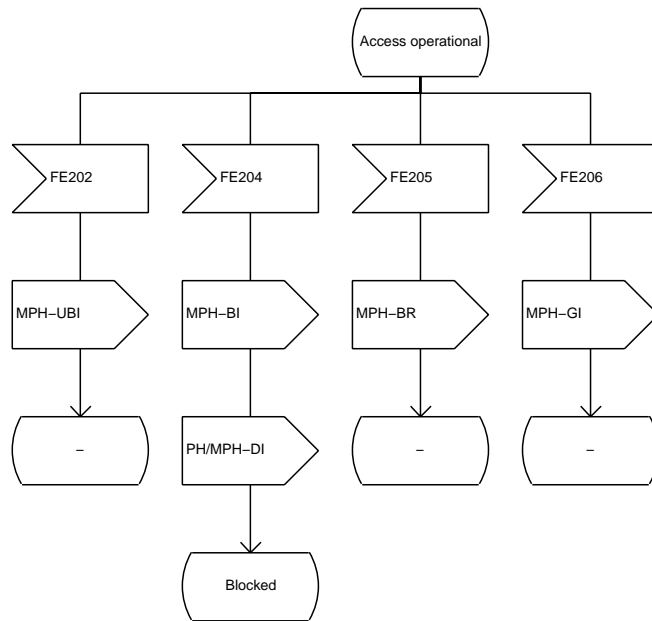


State  
LE1.2 (ISDN PRA port)





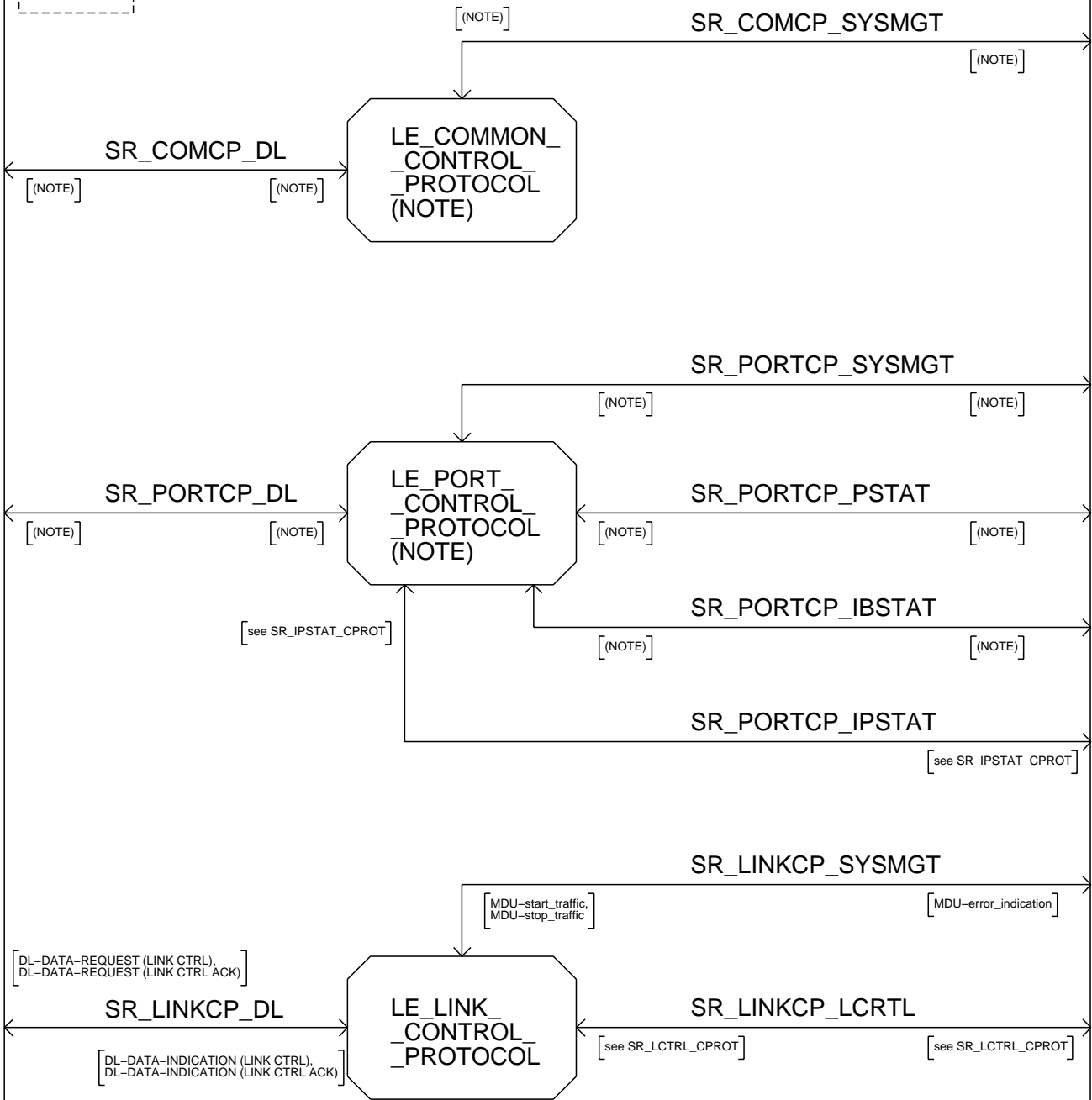
State  
LE2.0 (ISDN PRA port)



# Block LE\_CONTROL\_PROTOCOL\_BLK

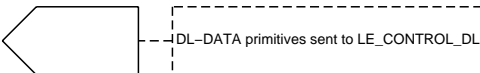
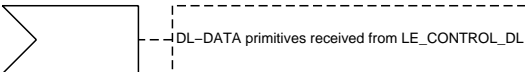
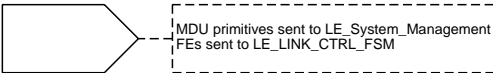
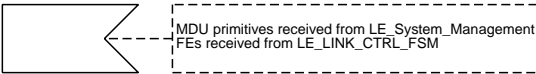
1(1)

NOTE:  
see ETS 300 324-1 [8]





LE\_LINK\_CONTROL\_PROTOCOL  
message direction description

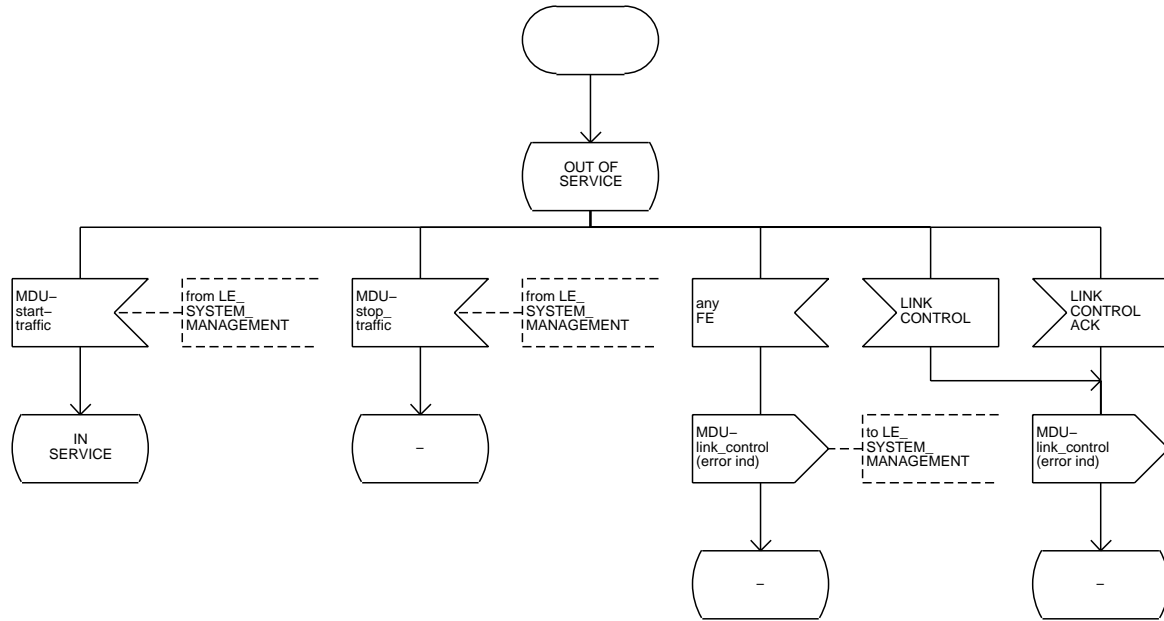


# Process LE\_LINK\_CONTROL\_PROTOCOL

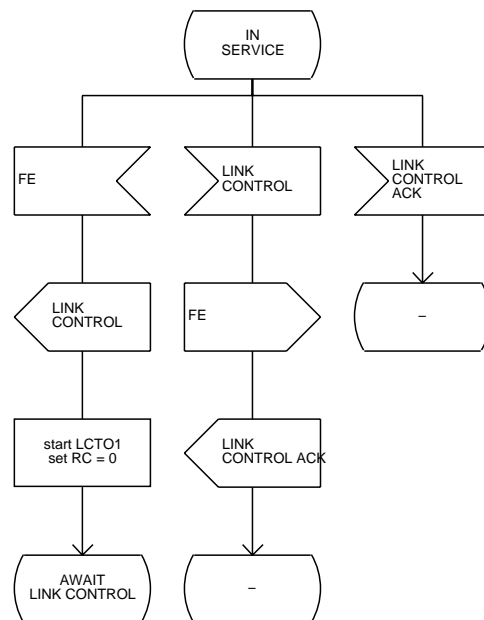
2(3)



State LE0  
(LINK\_CTRL\_PROT)



State LE1  
(LINK\_CTRL\_PROT)



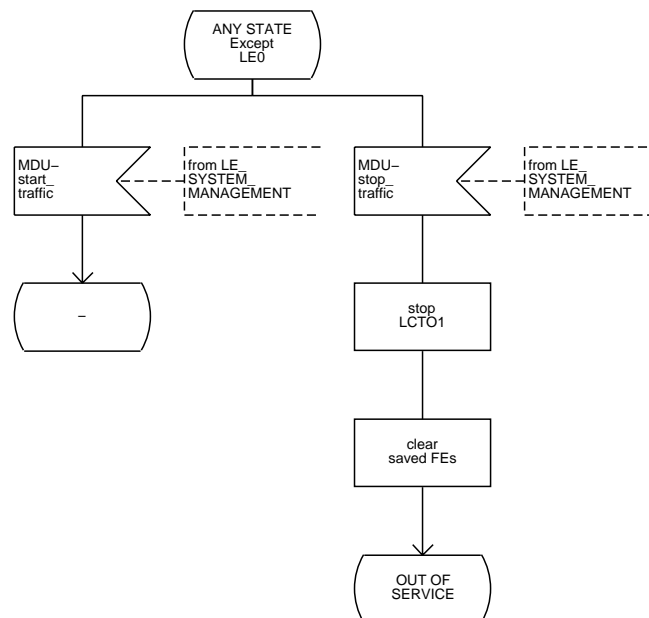
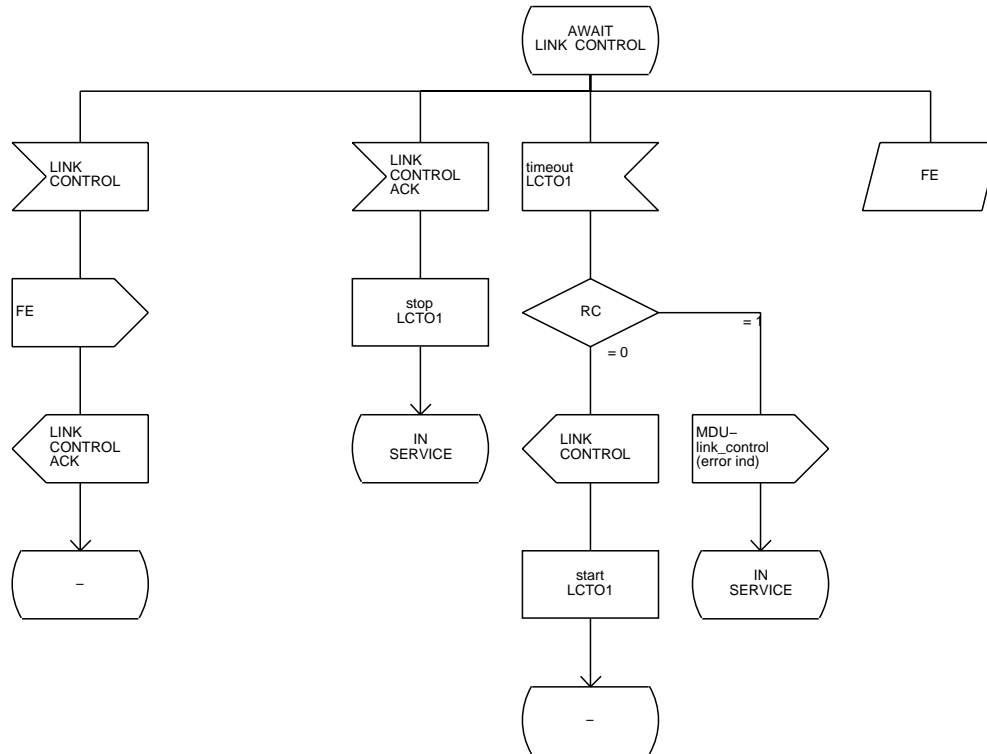


# Process LE\_LINK\_CONTROL\_PROTOCOL

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



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

SR\_LCTRL\_LSTAT

MPH-ID,  
MPH-IDR,  
MPH-NOR



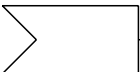
LE\_LINK\_CTRL\_FSM  
message direction description



MDU primitives received from LE\_System\_Management



MDU primitives sent to LE\_System\_Management

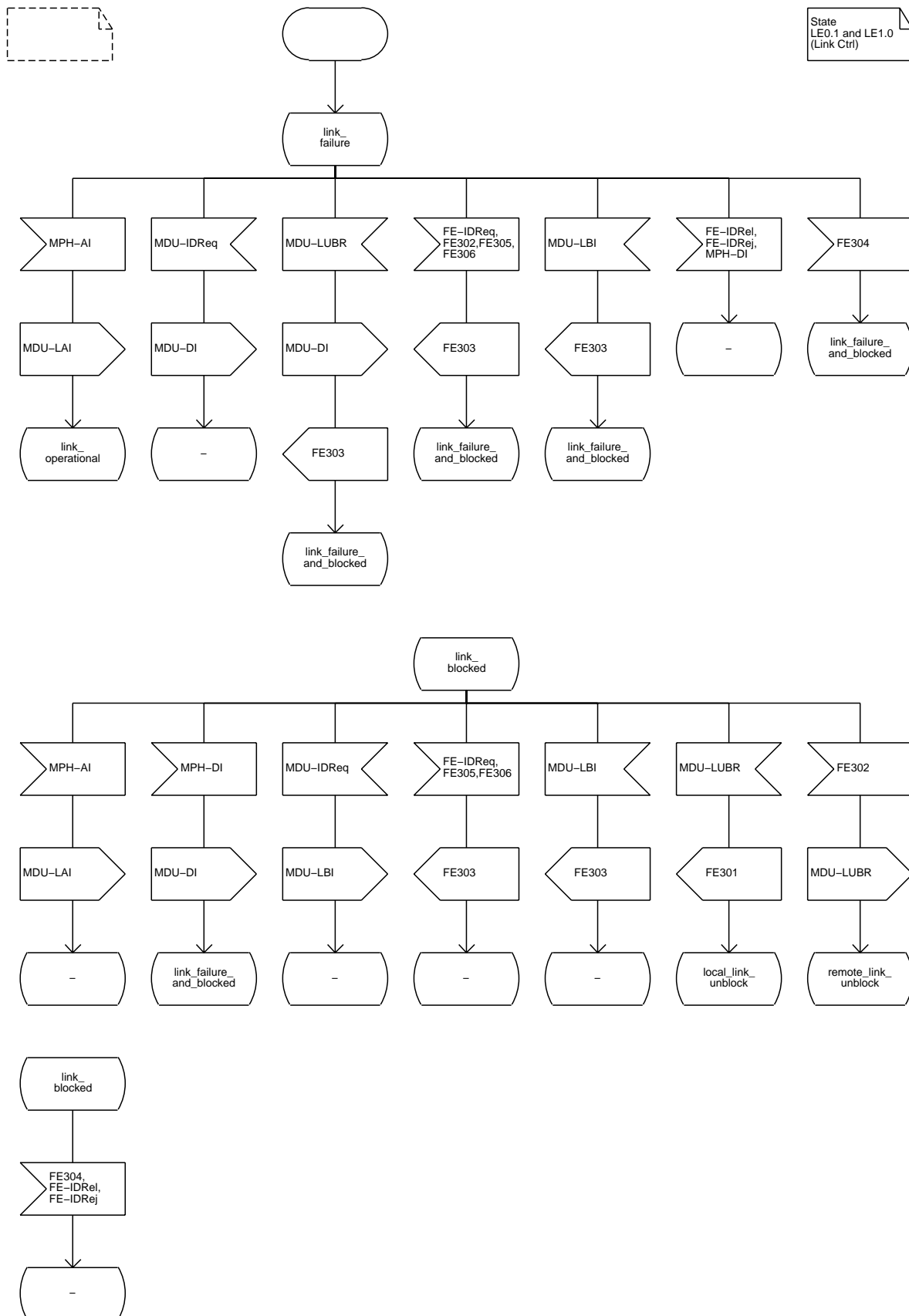


MPH primitives received from LE\_V5\_link\_status\_FSM  
FEs received from peer entity in AN via LE\_LINK\_CONTROL\_PROTOCOL



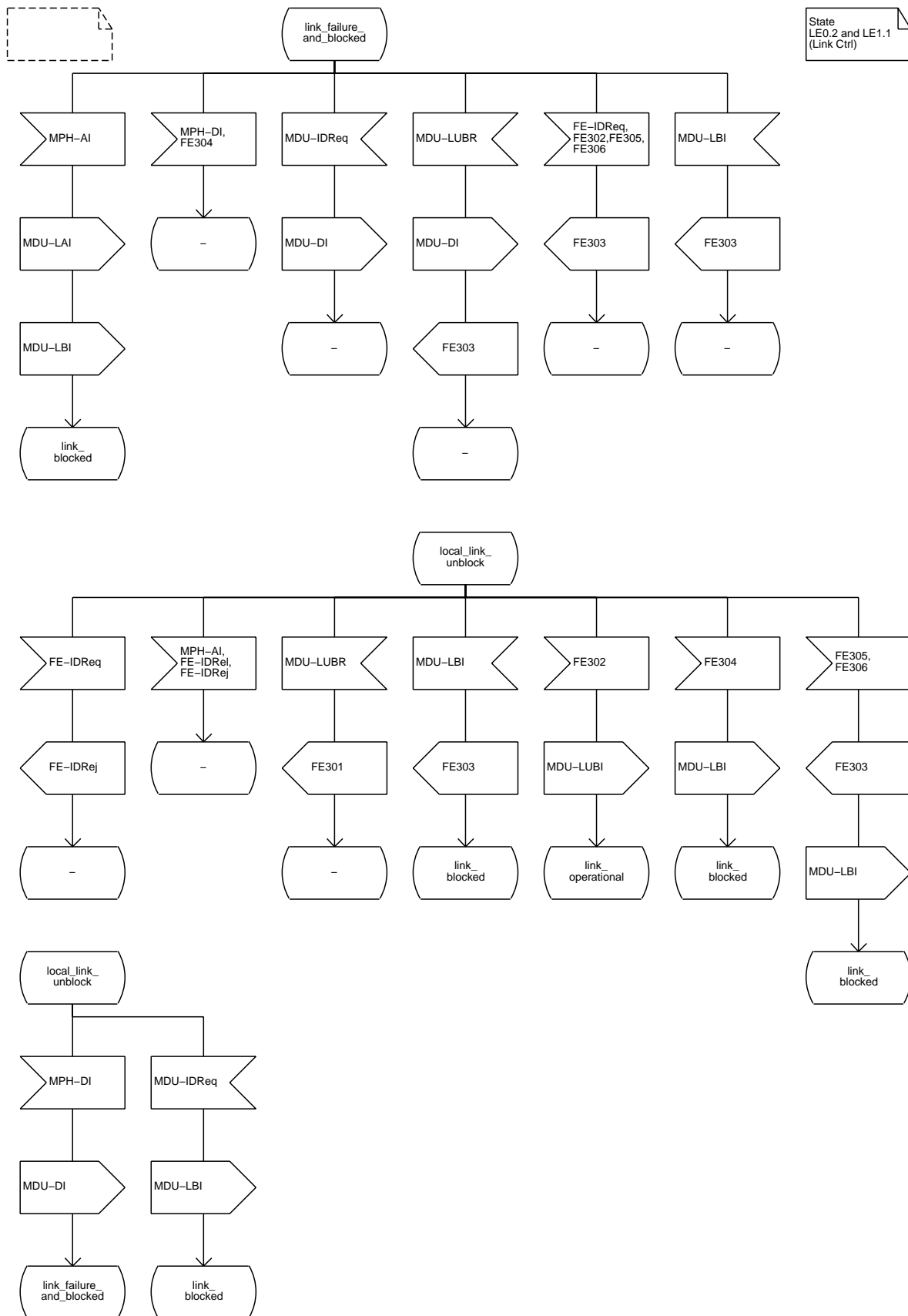
MPH primitives sent to LE\_V5\_link\_status\_FSM  
FEs sent to peer entity in AN via LE\_LINK\_CONTROL\_PROTOCOL

2(6)



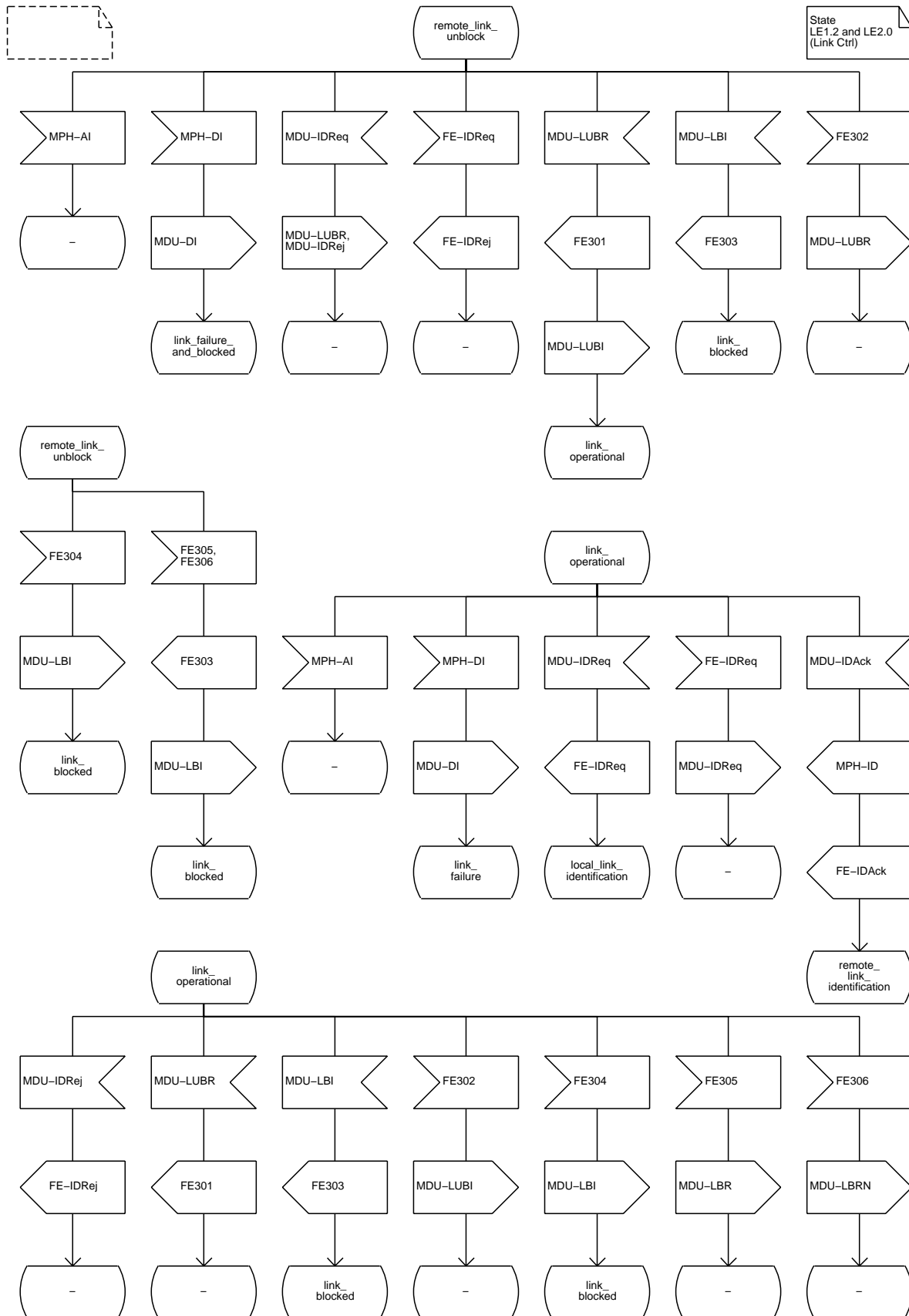
# Process LE\_LINK\_CTRL\_FSM

3(6)



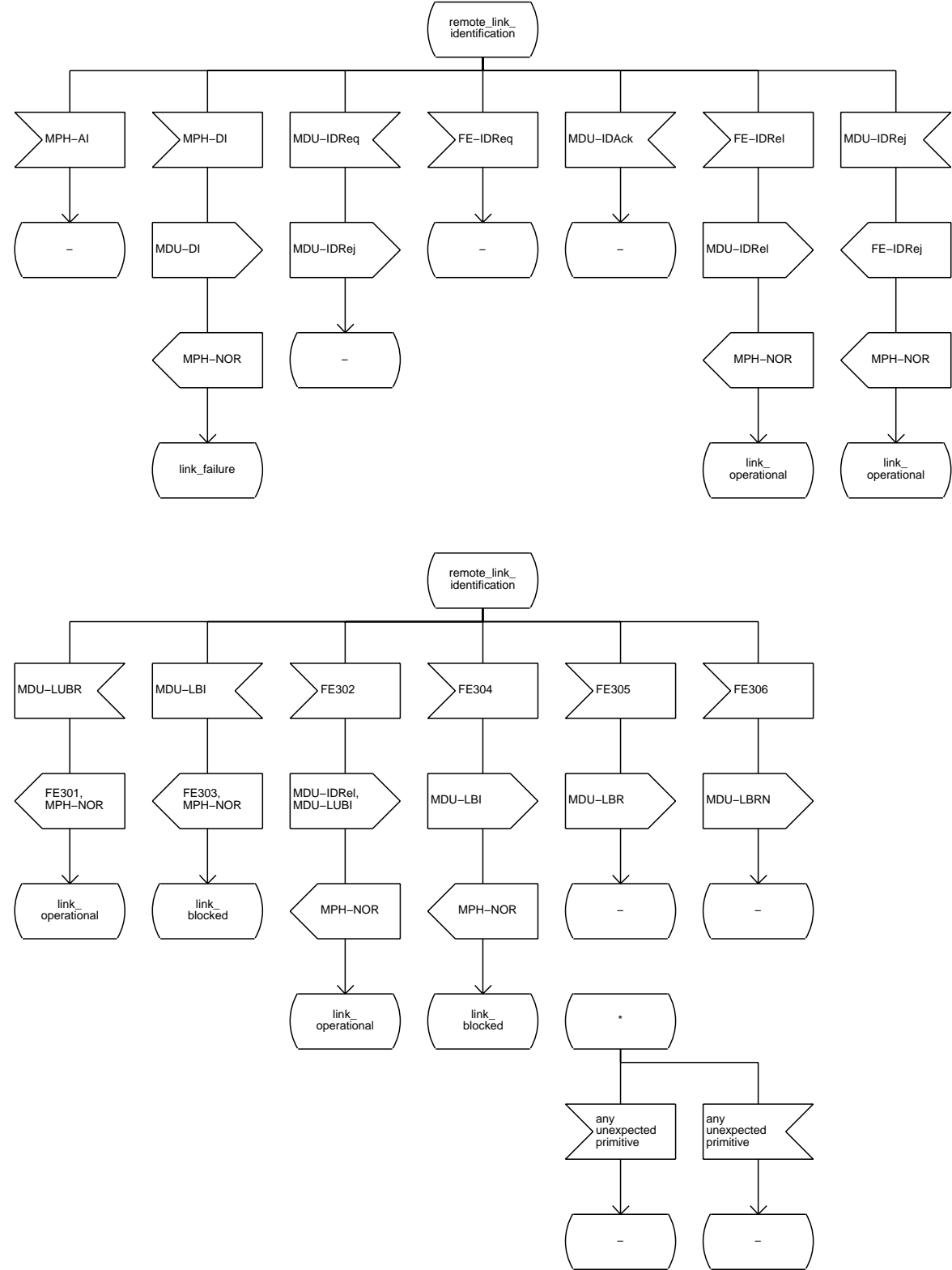
# Process LE\_LINK\_CTRL\_FSM

4(6)



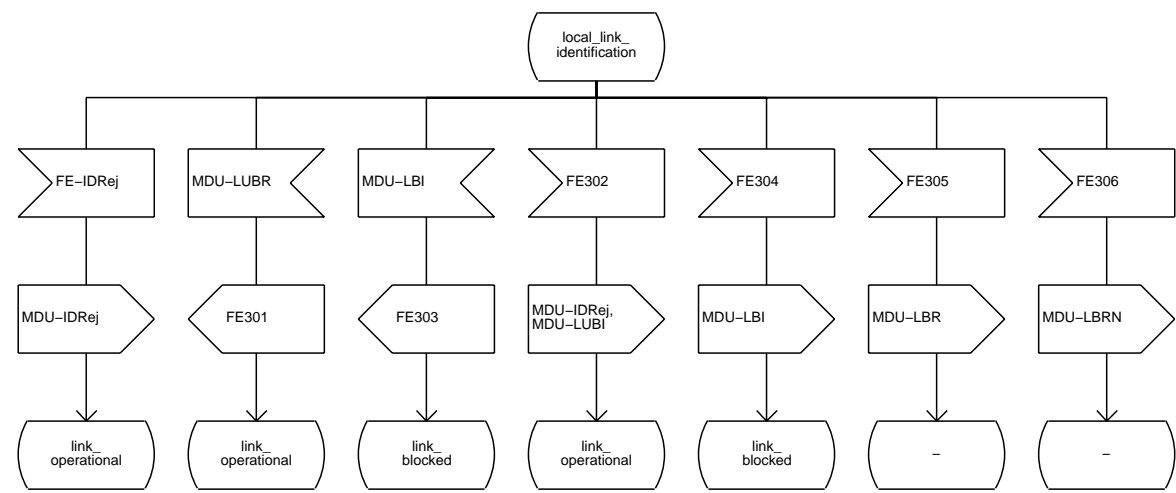
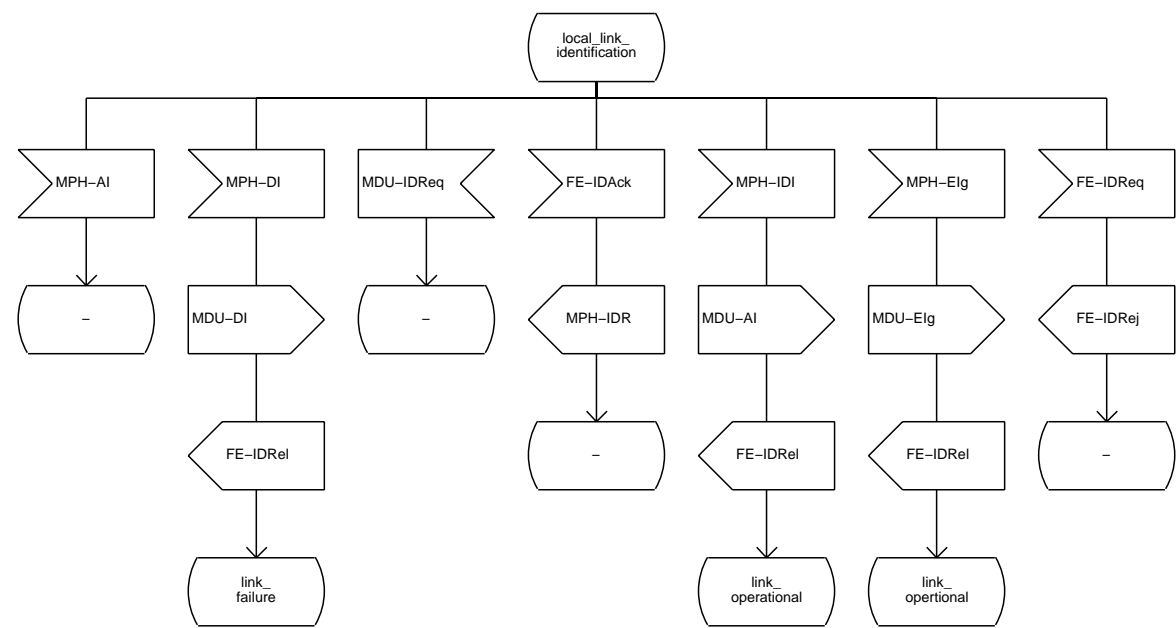


State  
LE2.1 (Link Ctrl)  
and any state



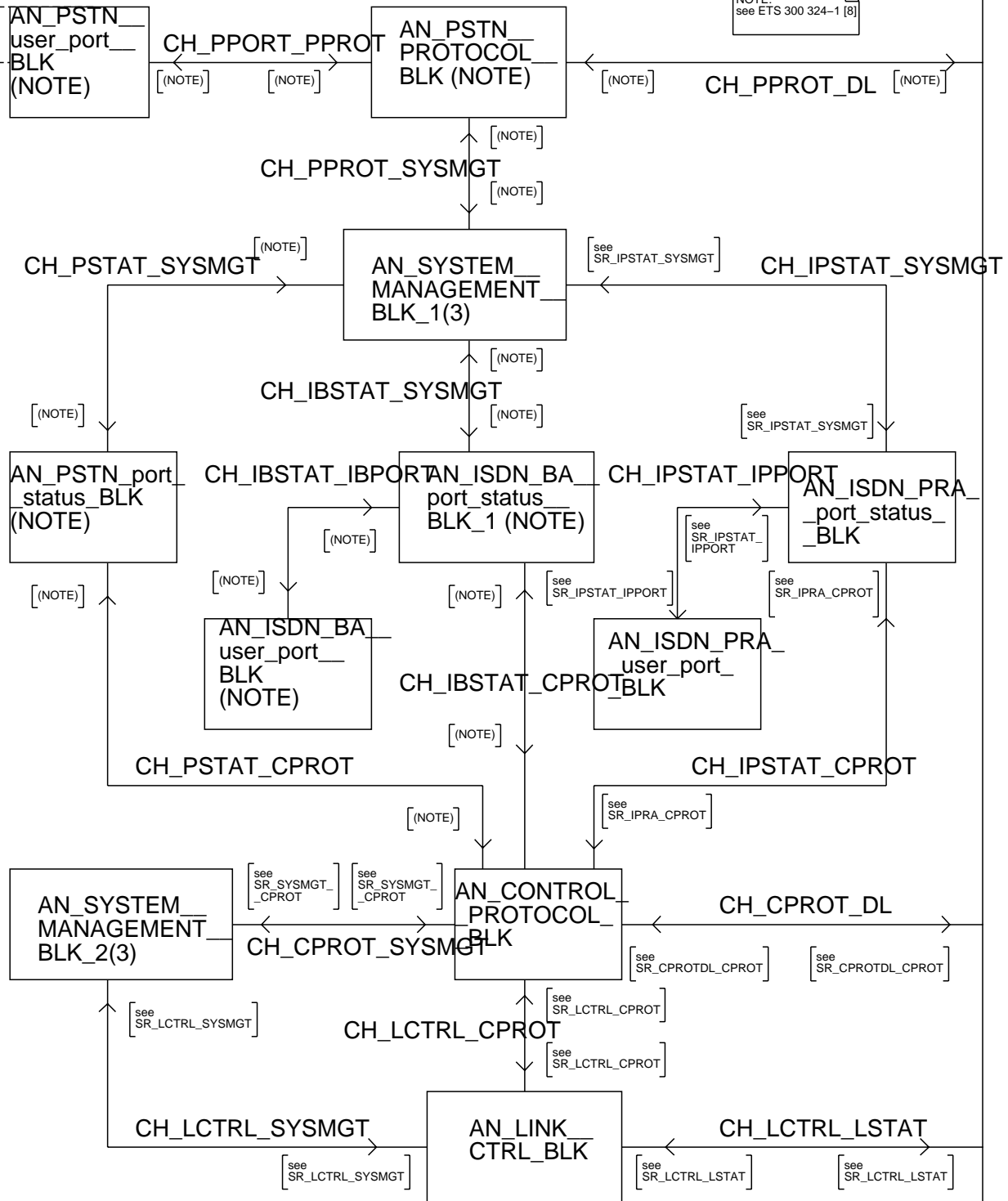


State  
LE2.2 (Link Ctrl)

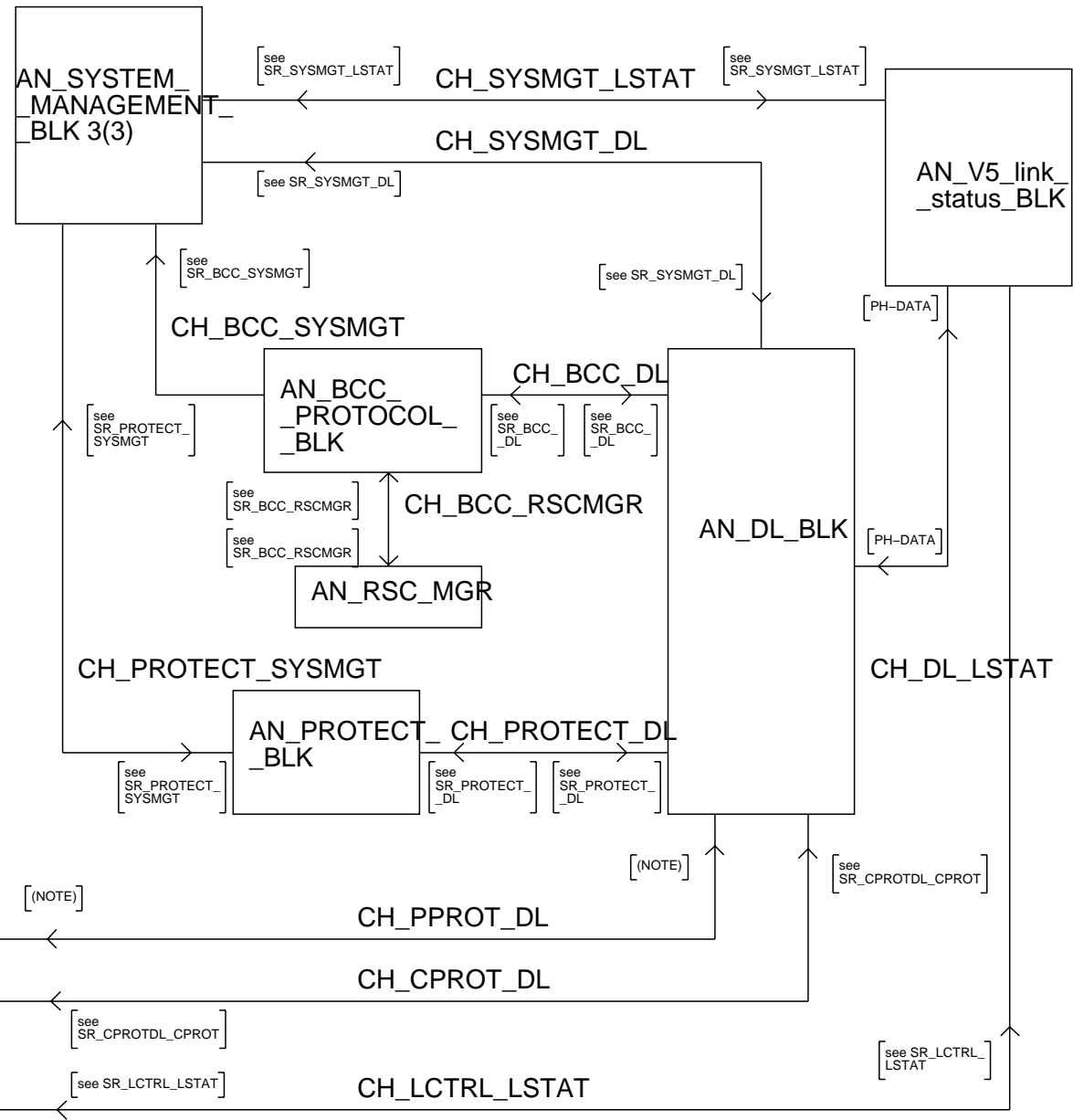




NOTE:  
see ETS 300 324-1 [8]

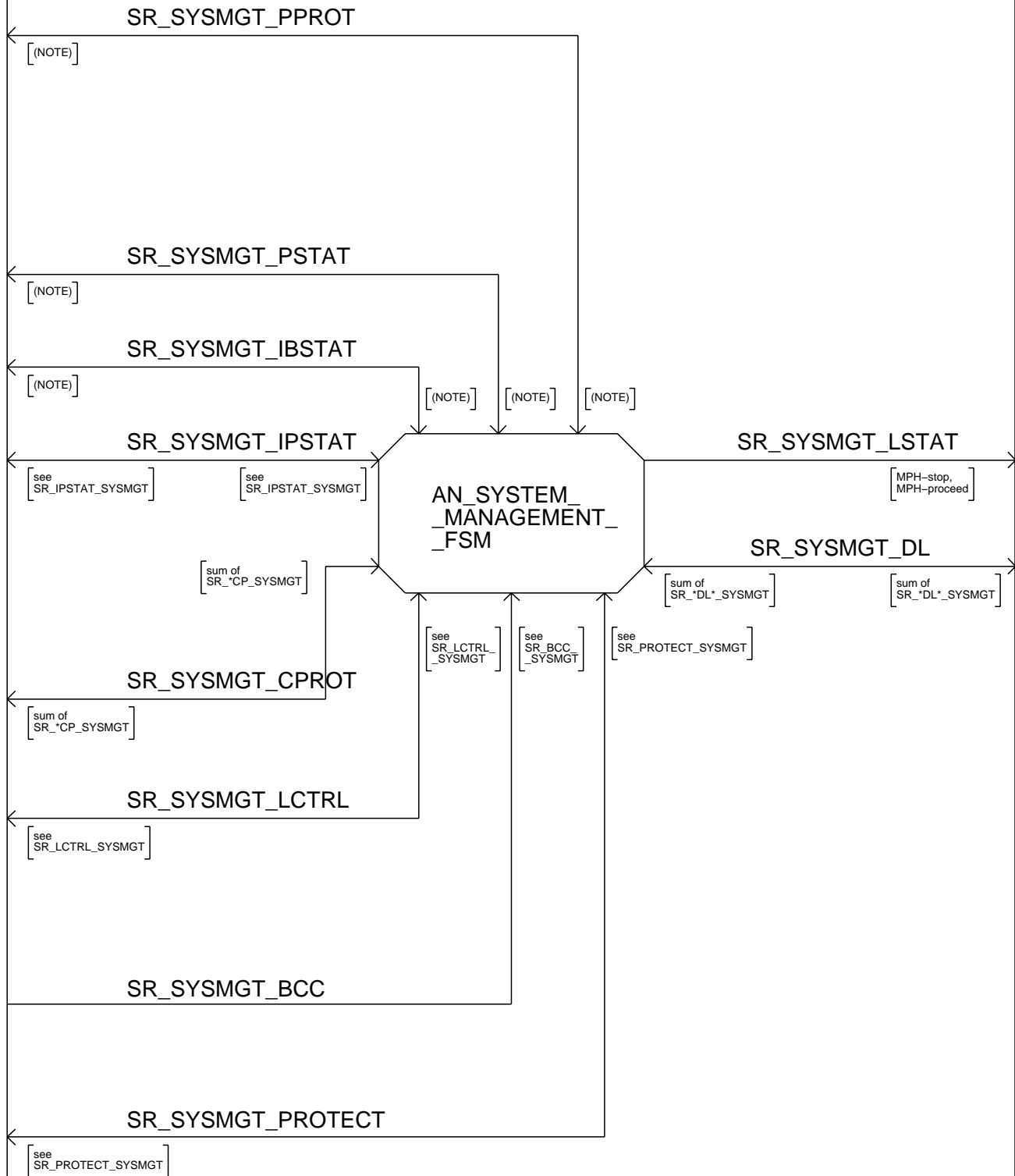


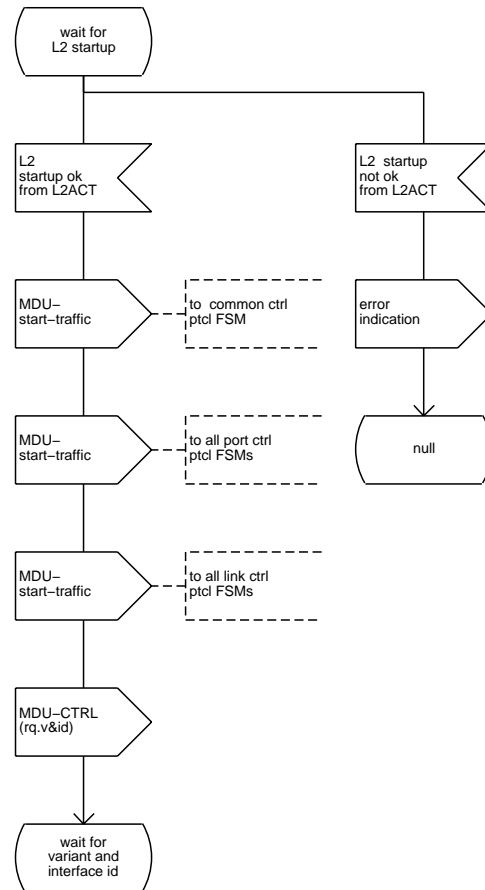
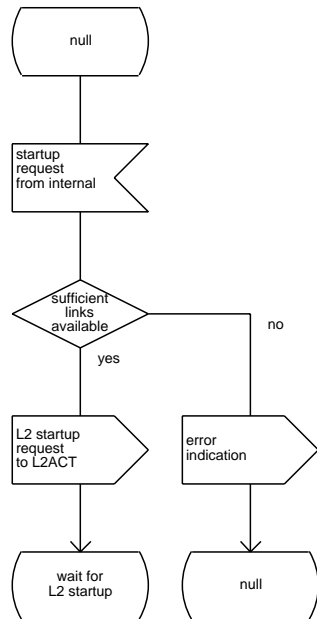
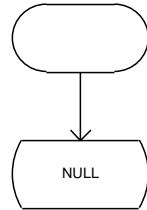
NOTE:  
see ETS 300 324-1 [8]

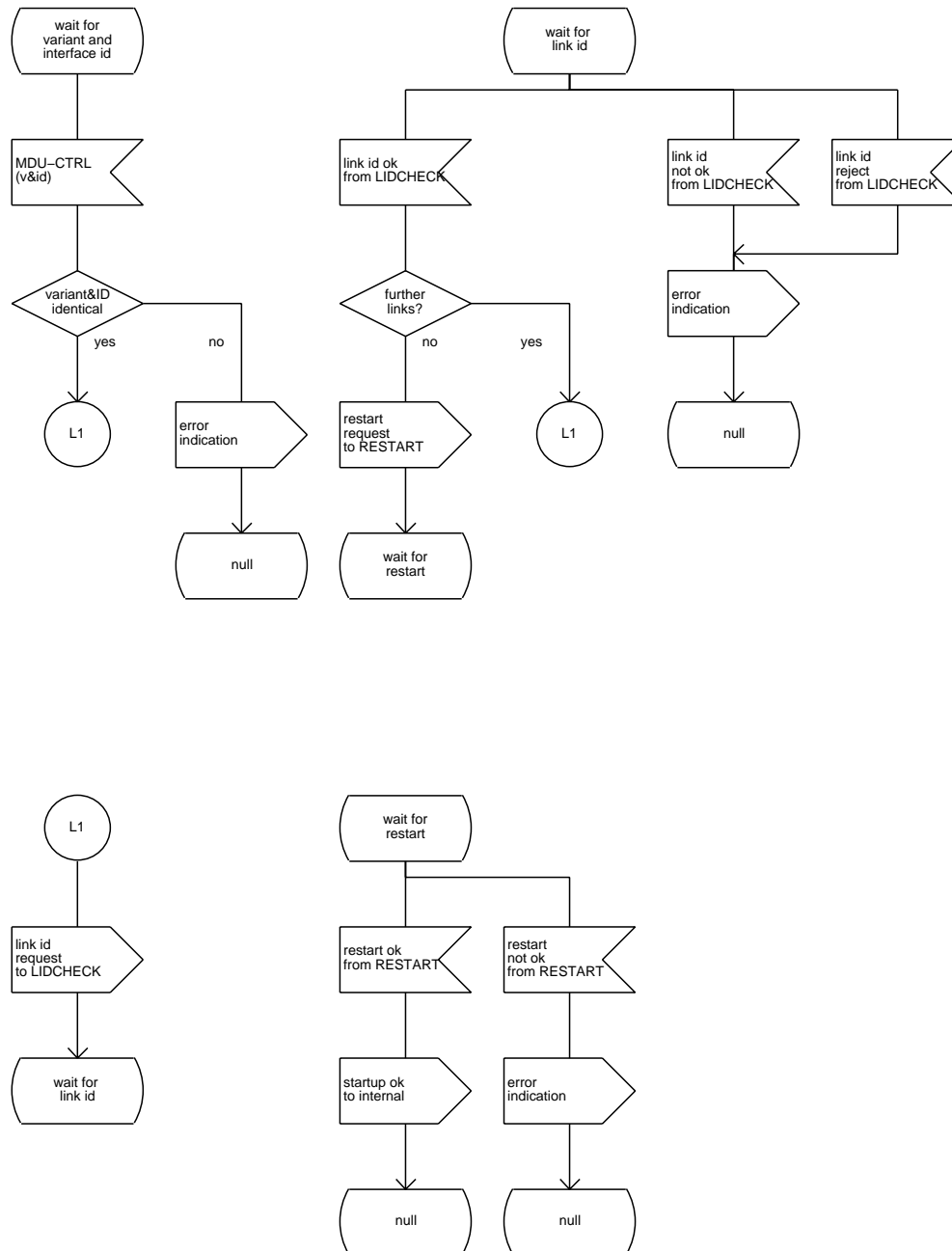


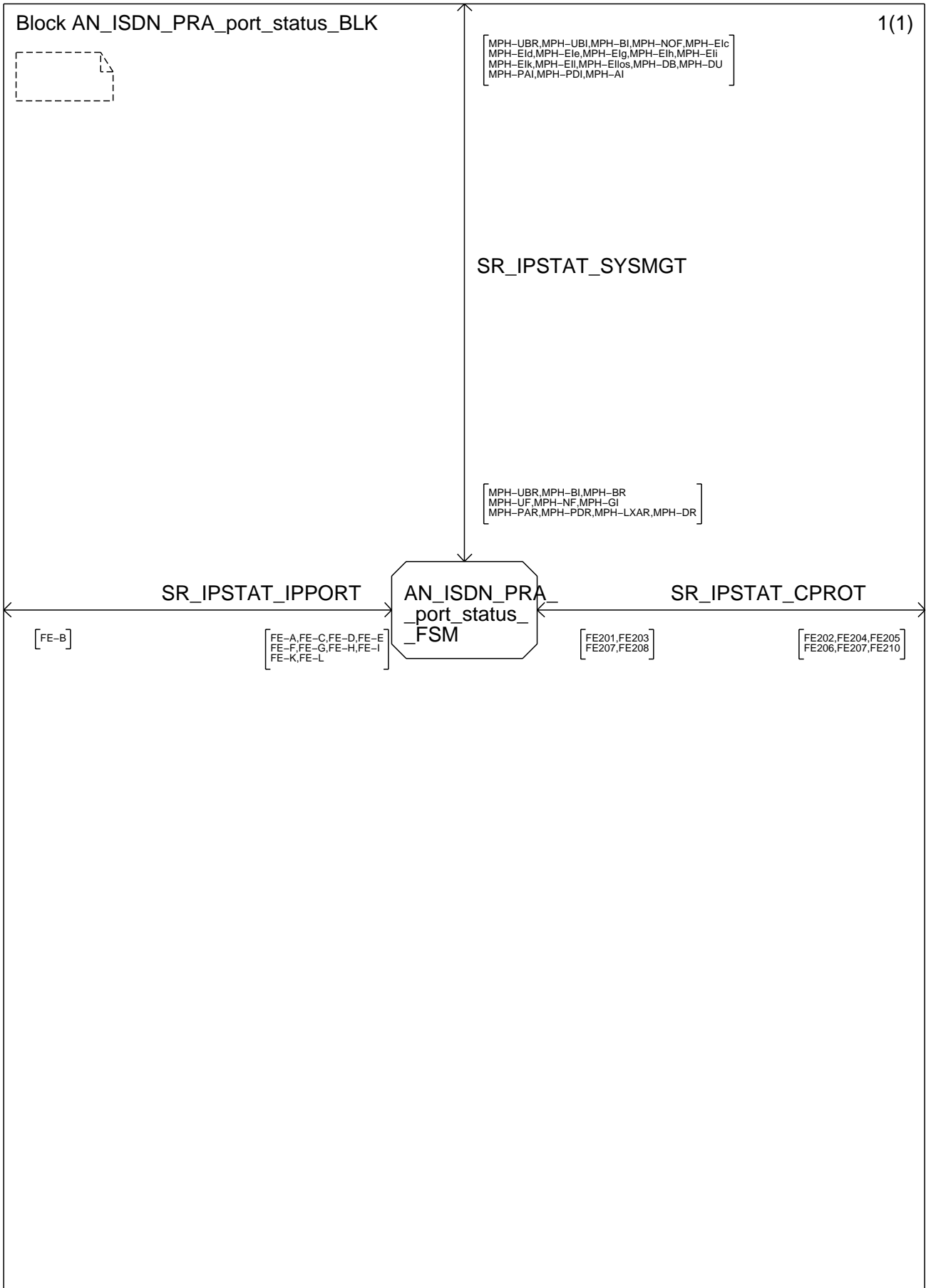


NOTE:  
see ETS 300 324-1 [8]



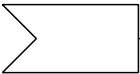








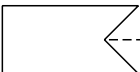
AN\_ISDN\_PRA\_port\_status\_FSM  
message direction description



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



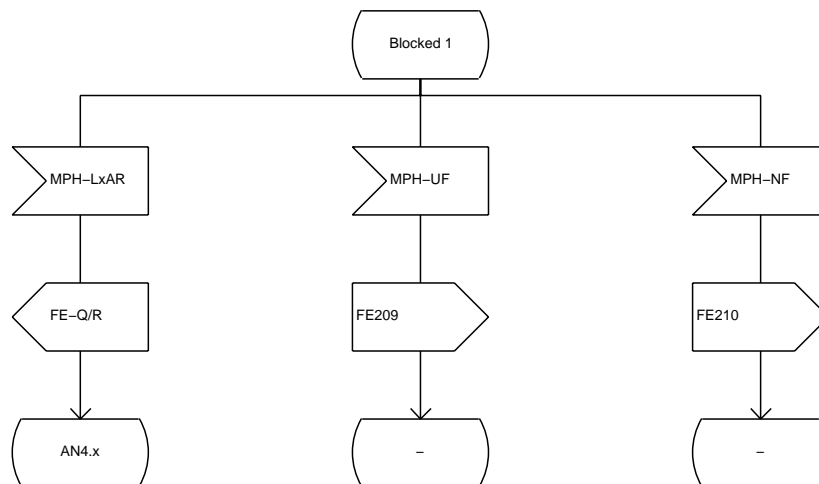
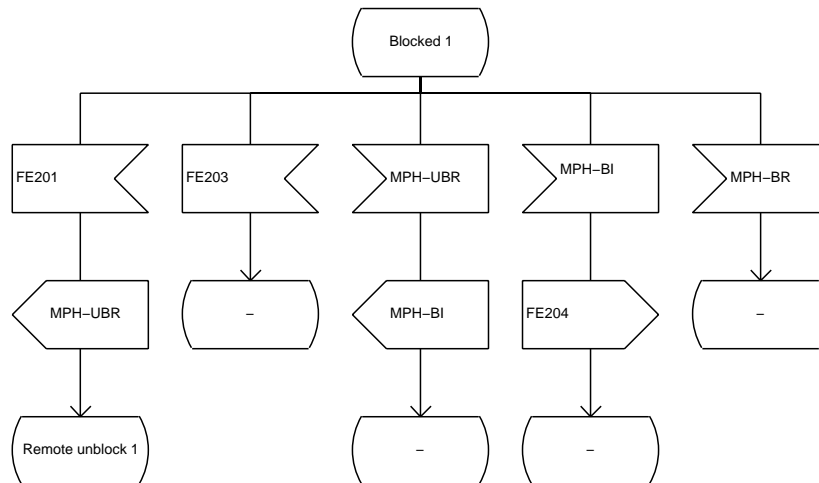
FEs received from peer entity in LE via AN\_PORT\_CONTROL\_PROTOCOL



FEs sent to peer entity in LE via AN\_PORT\_CONTROL\_PROTOCOL



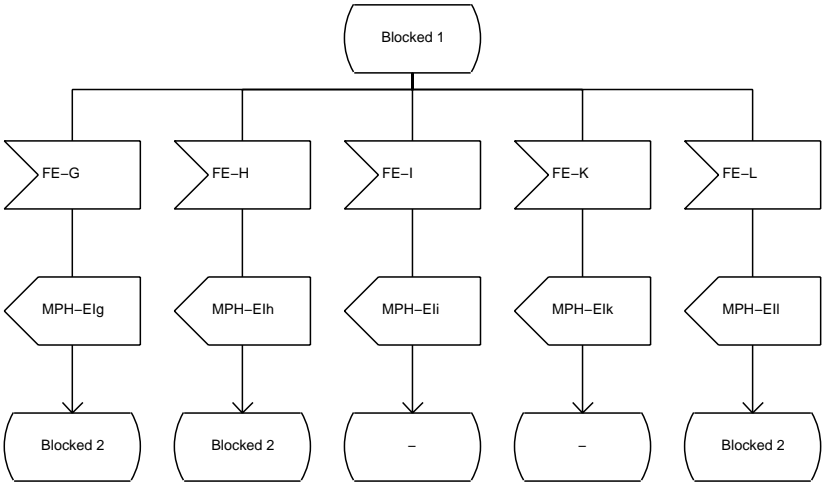
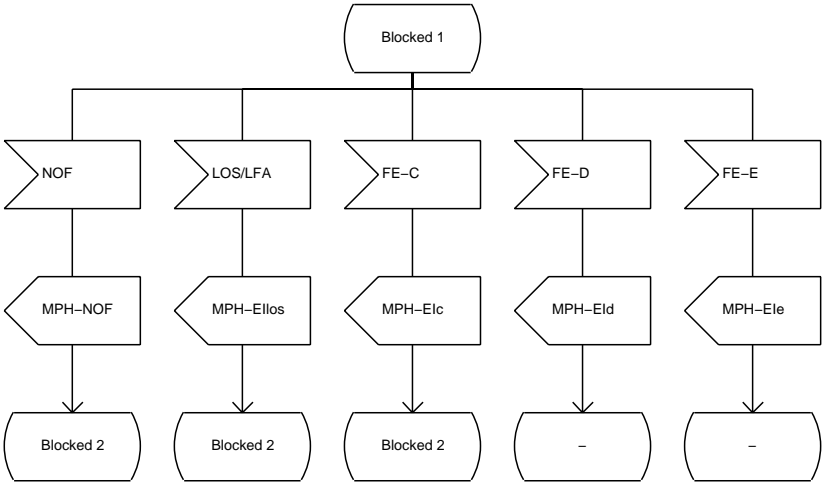
State  
AN1.01 (ISDN PRA port)





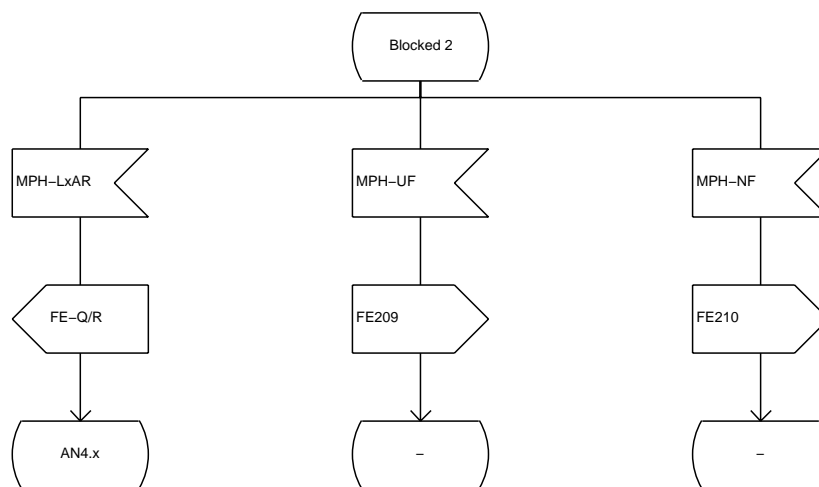
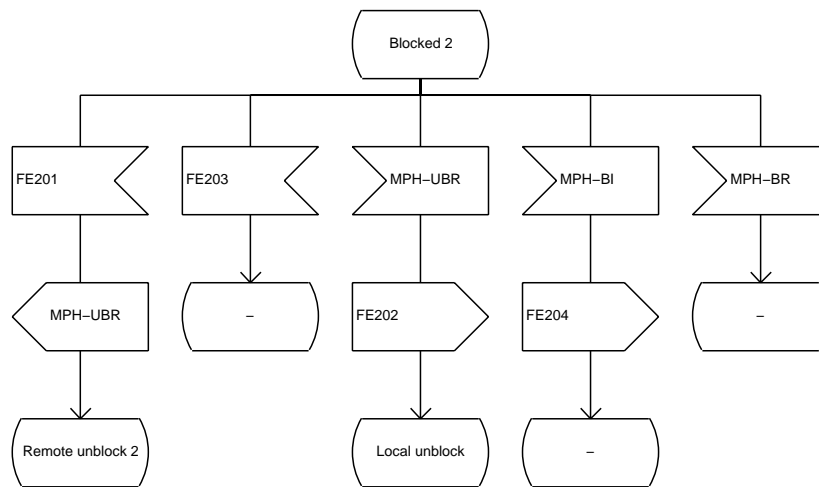


State  
AN1.01 (ISDN PRA port)



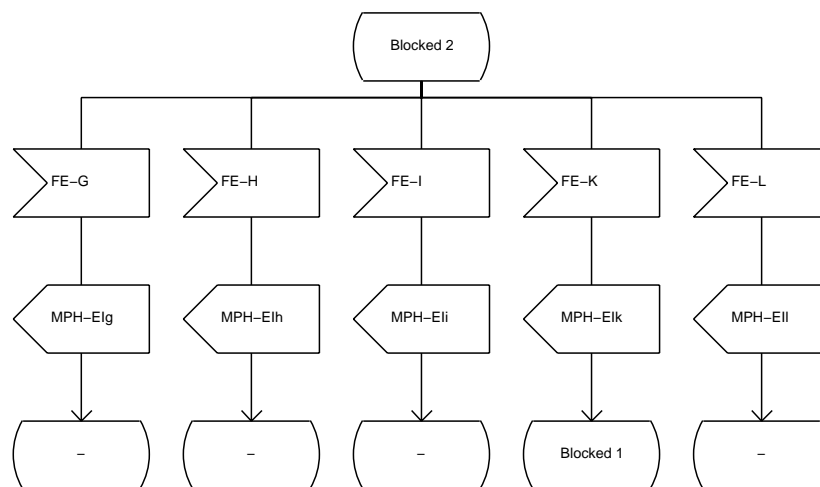
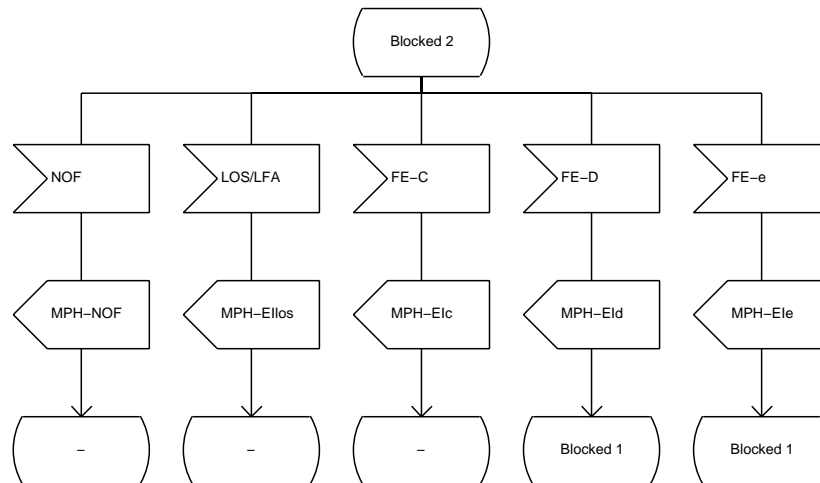


State  
AN1.1 (ISDN PRA port)



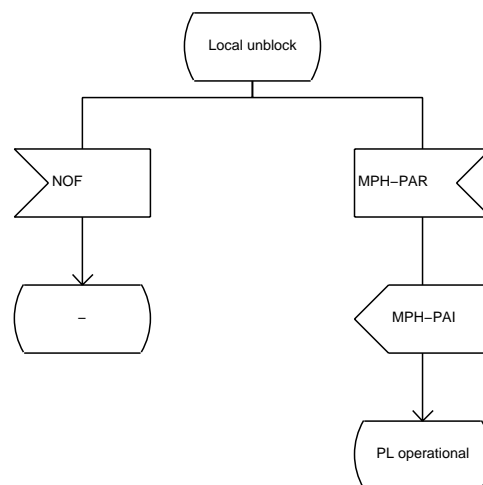
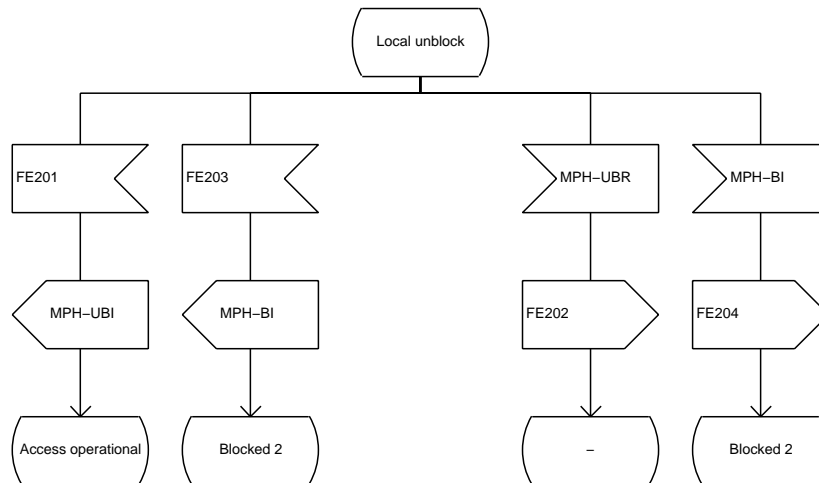


State  
AN1.02 (ISDN PRA port)



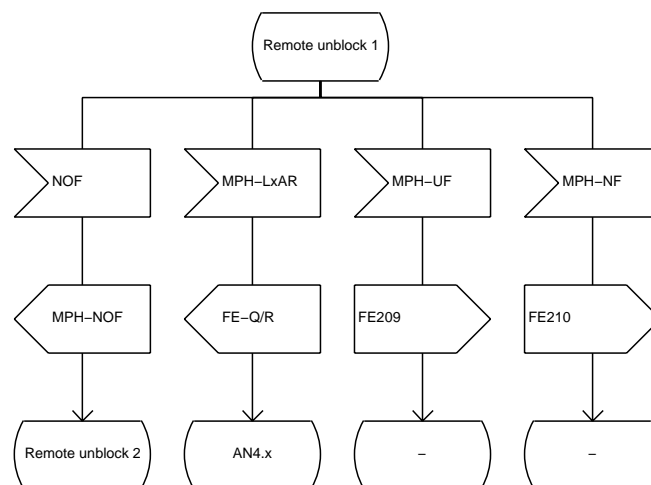
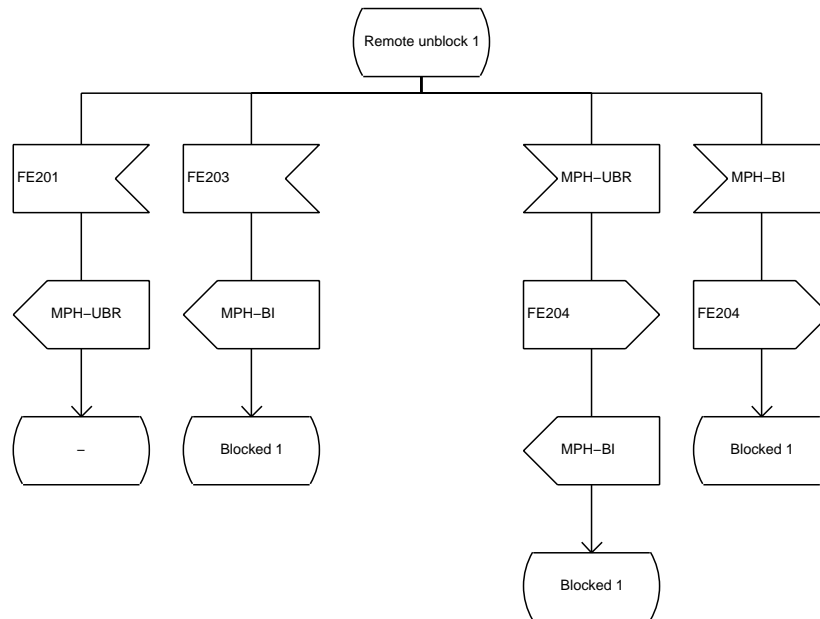


State  
AN1.1 (ISDN PRA port)



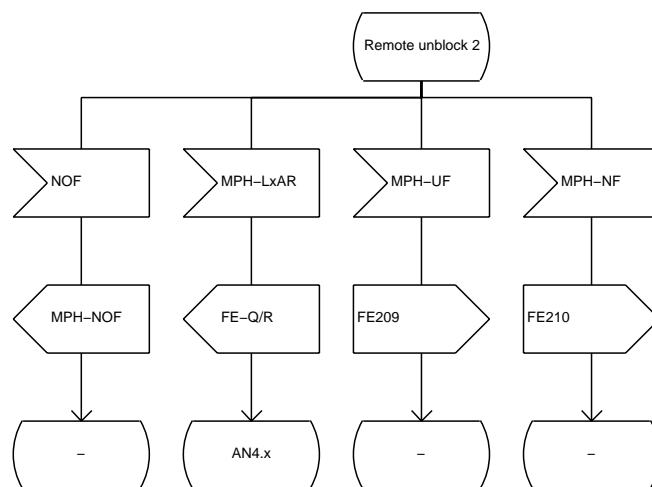
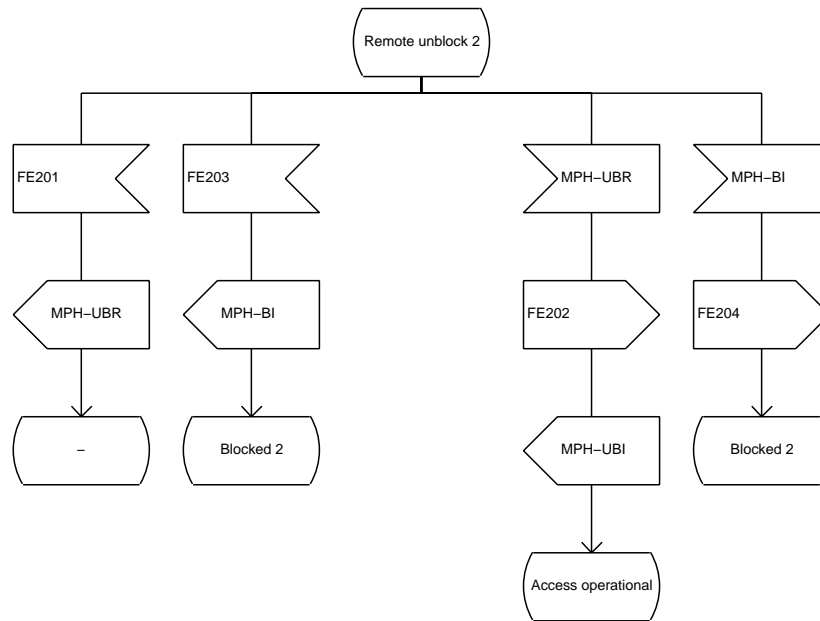


State  
AN1.21 (ISDN PRA port)



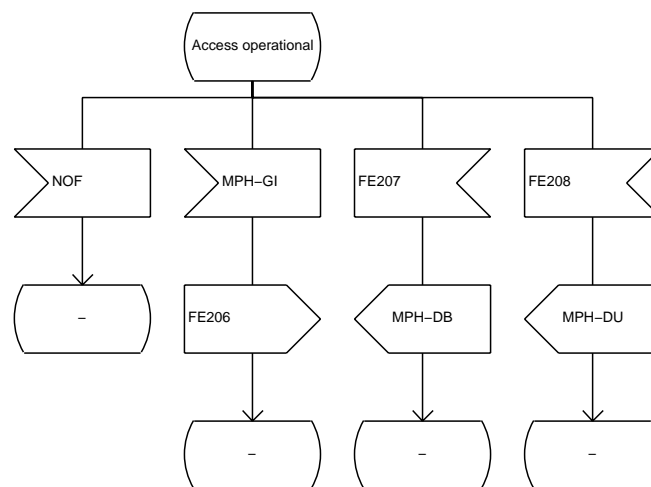
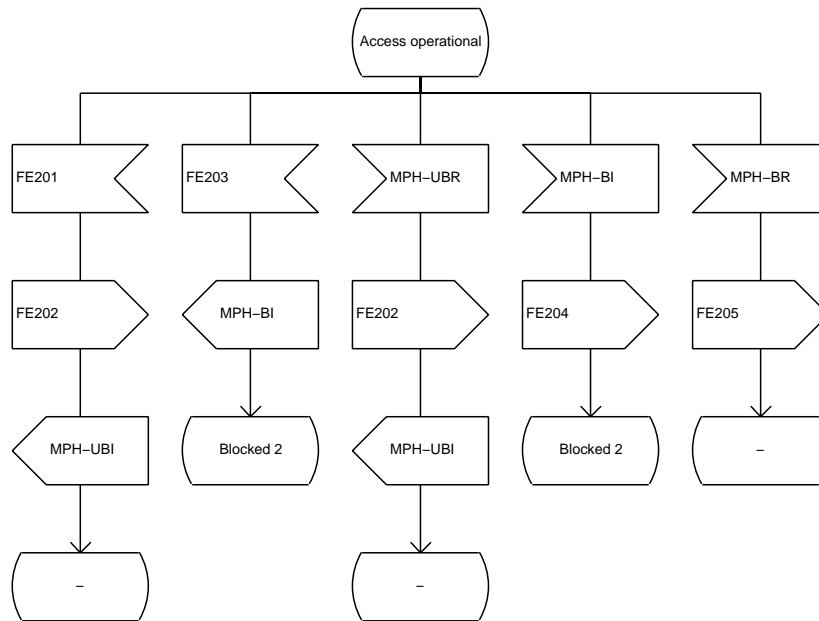


State  
AN1.22 (ISDN PRA port)



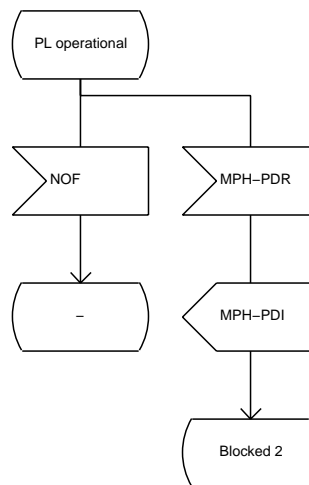
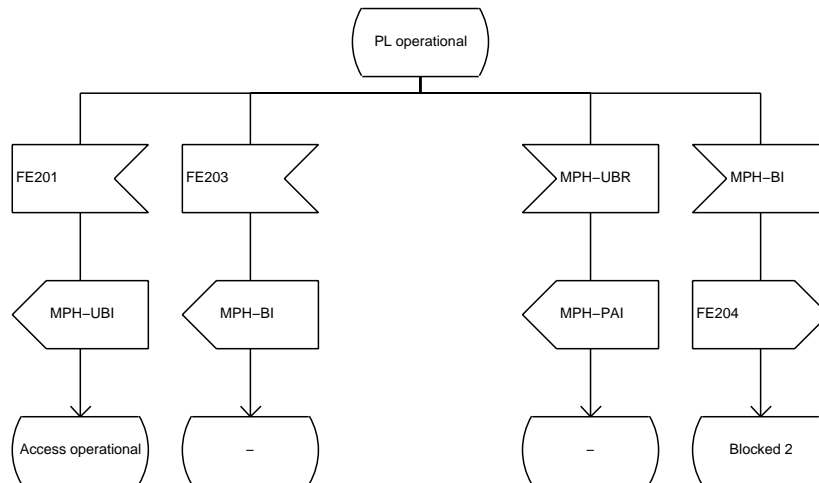


State  
AN2.0 (ISDN PRA port)





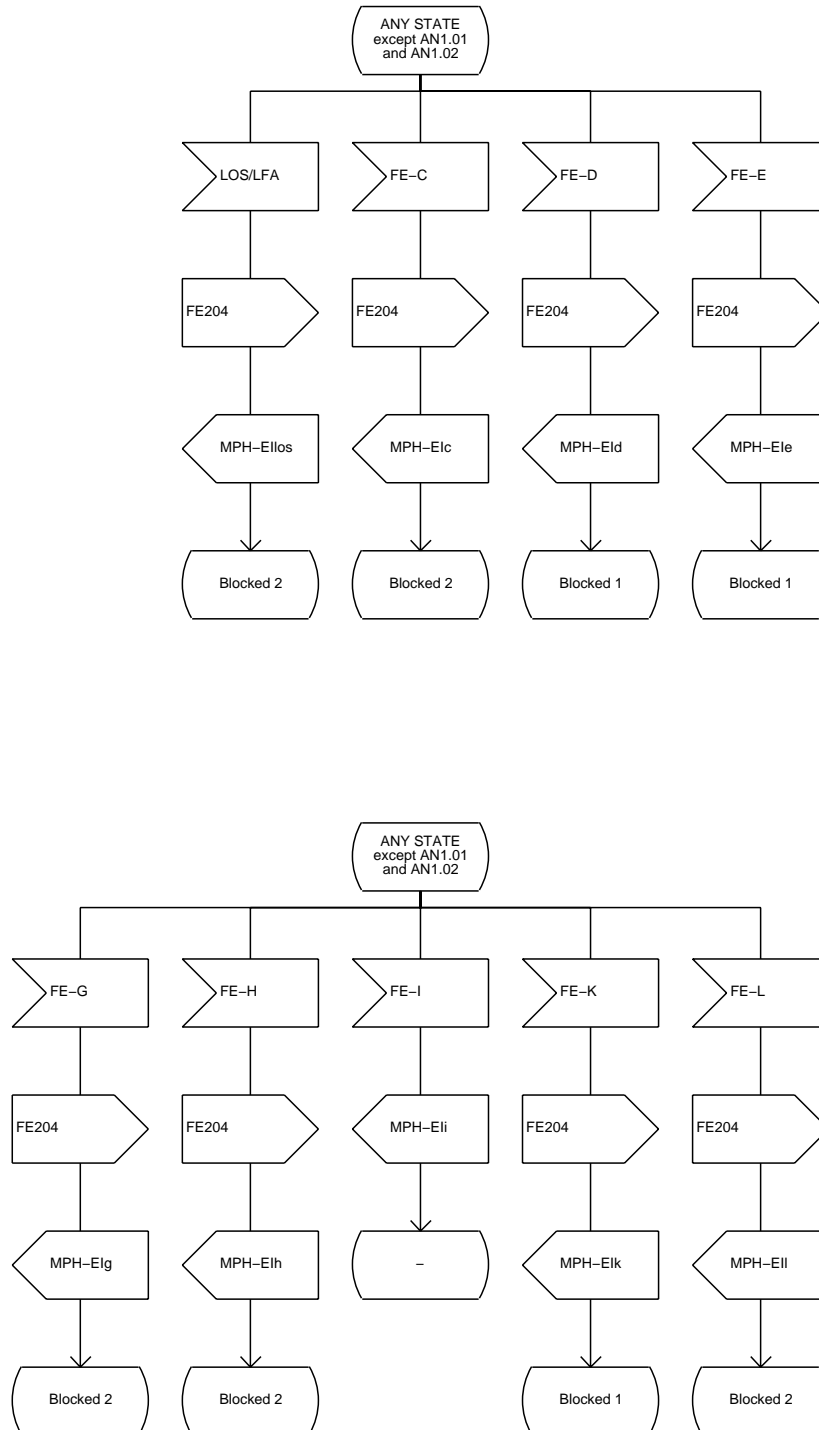
State  
AN3.0 (ISDN PRA port)

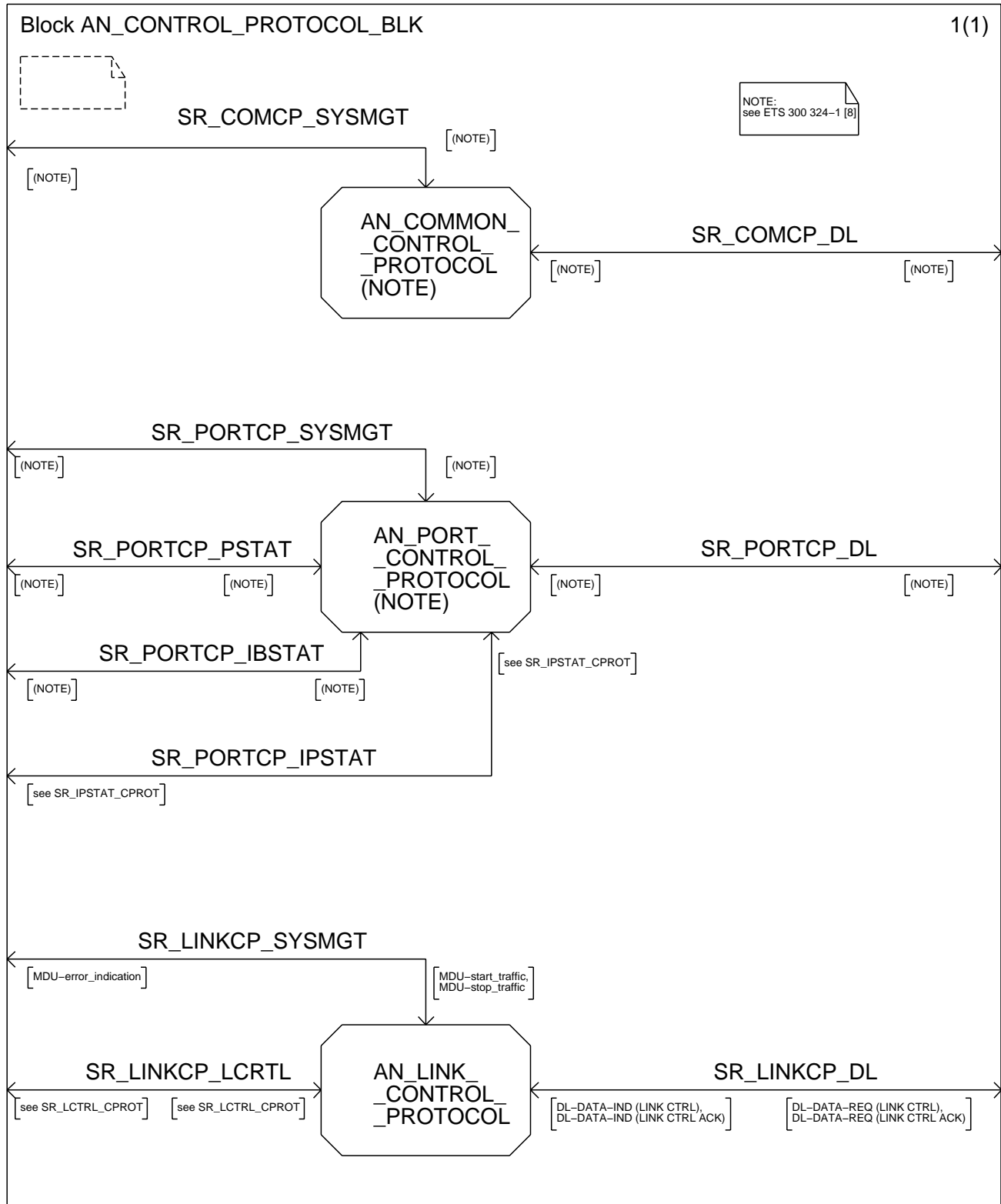






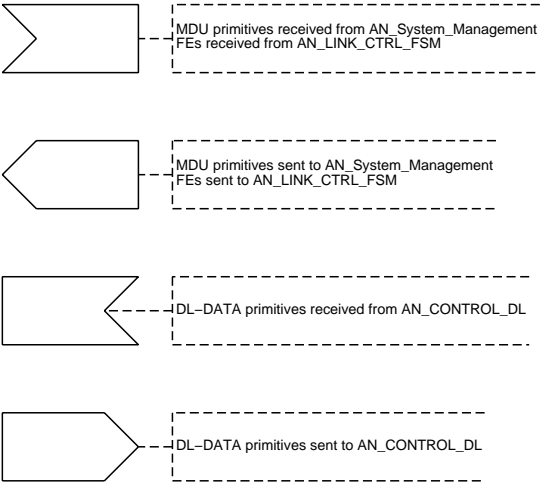
Any State  
except AN1.01  
and AN1.02







AN\_LINK\_CONTROL\_PROTOCOL  
message direction description

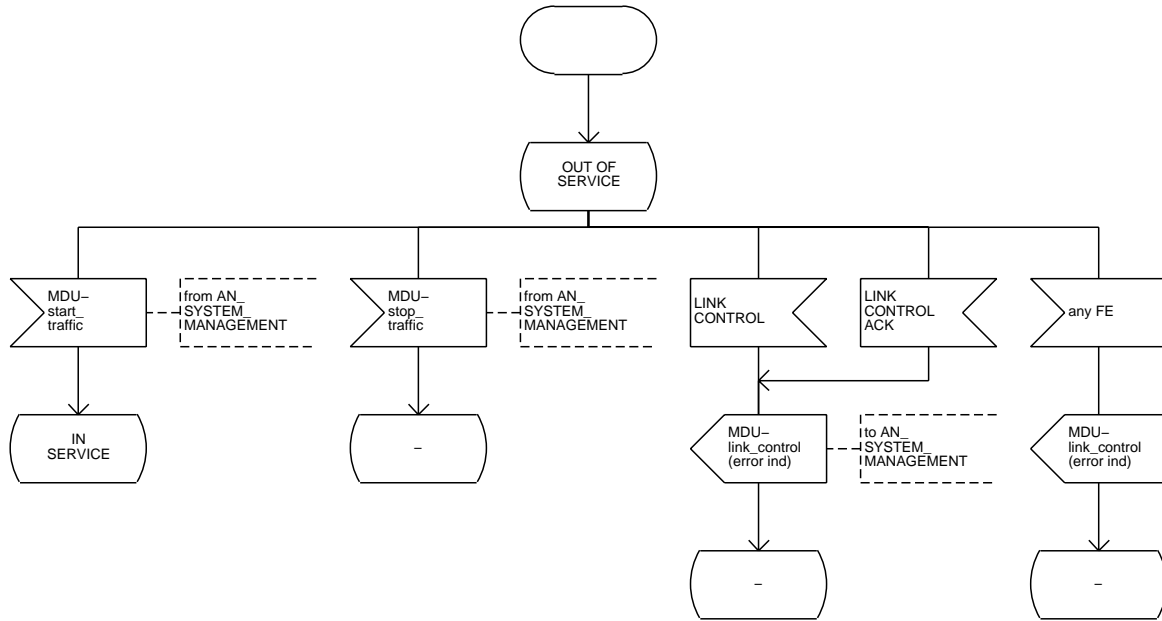


# Process AN\_LINK\_CONTROL\_PROTOCOL

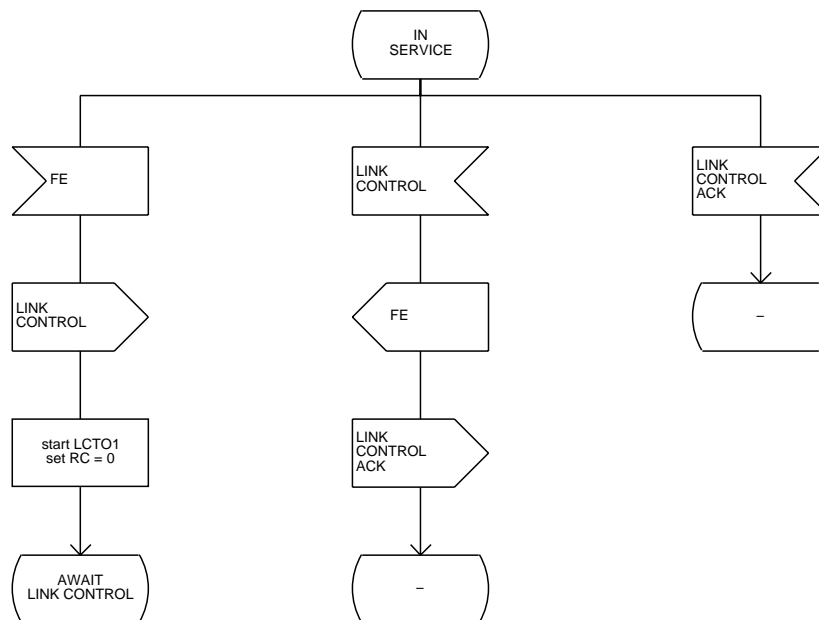
2(3)



State  
AN0 (LINK\_CTRL\_PROT)



State  
AN1(LINK\_CTRL\_PROT)

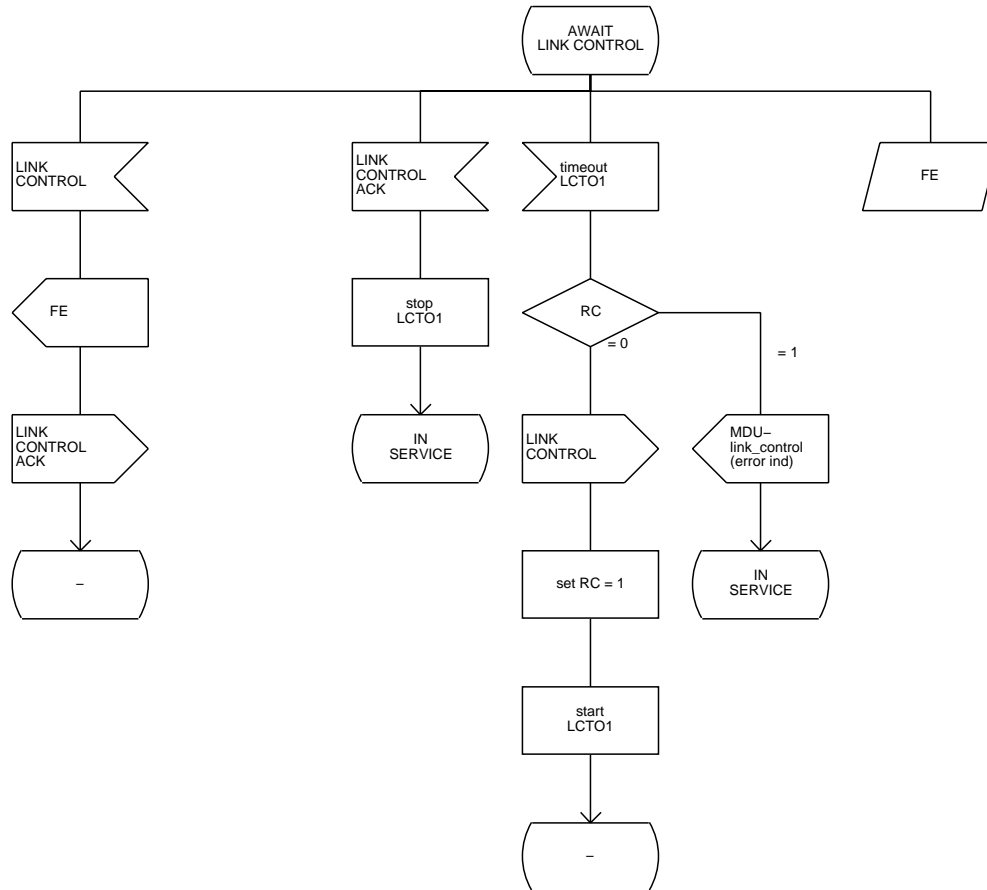


# Process AN\_LINK\_CONTROL\_PROTOCOL

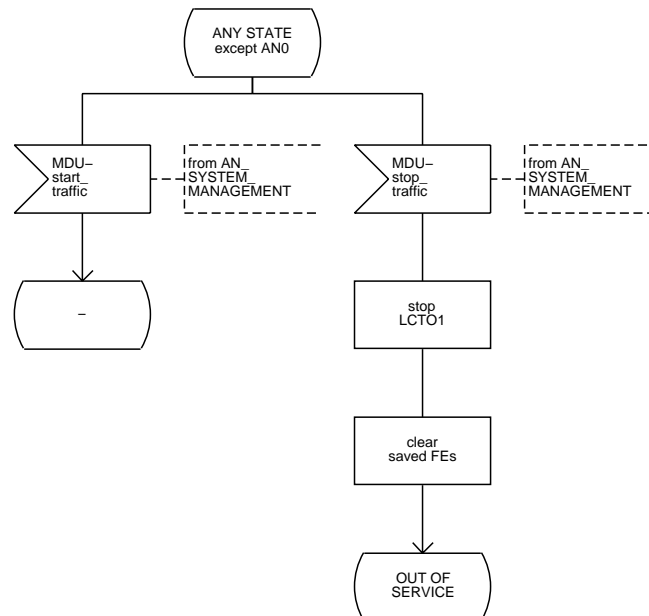
3(3)

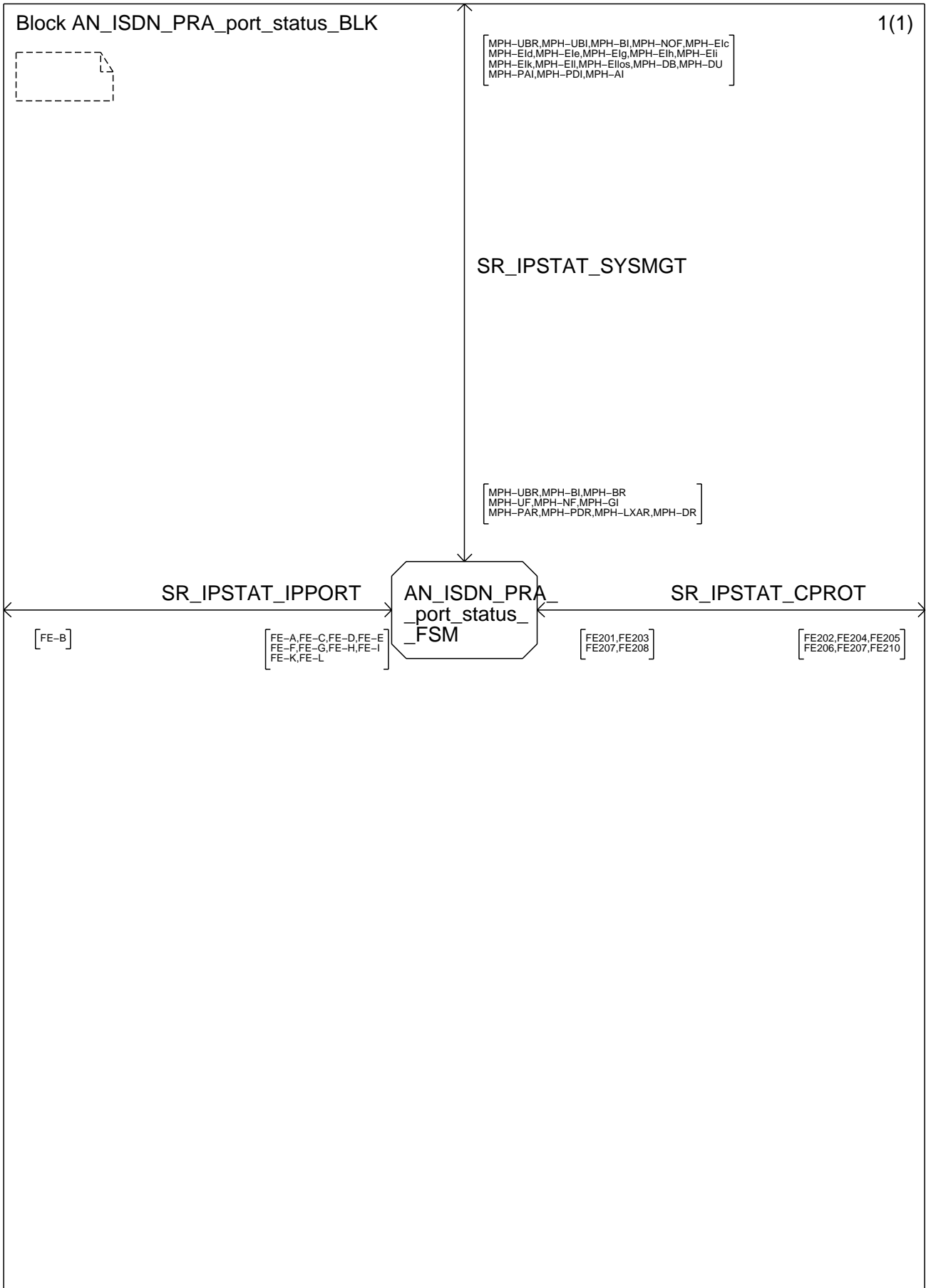


State  
AN2 (LINK\_CTRL\_PROT)



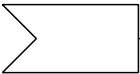
Any state  
except AN0  
(LINK\_CTRL\_PROT)







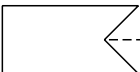
AN\_ISDN\_PRA\_port\_status\_FSM  
message direction description



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



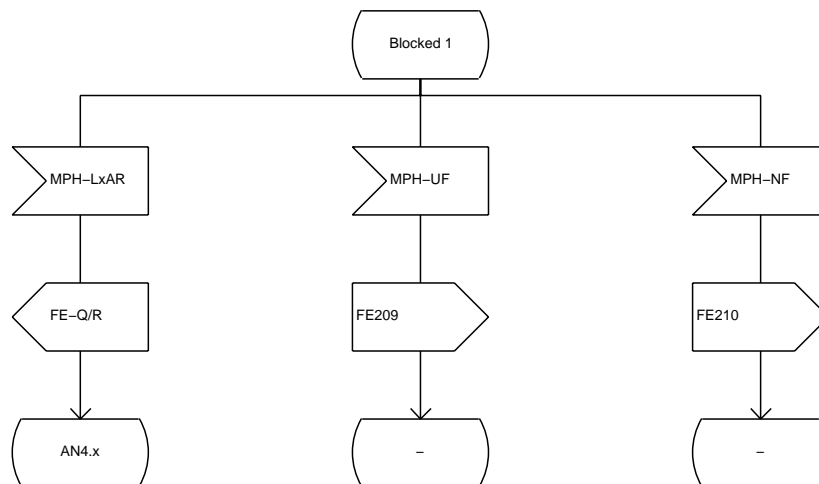
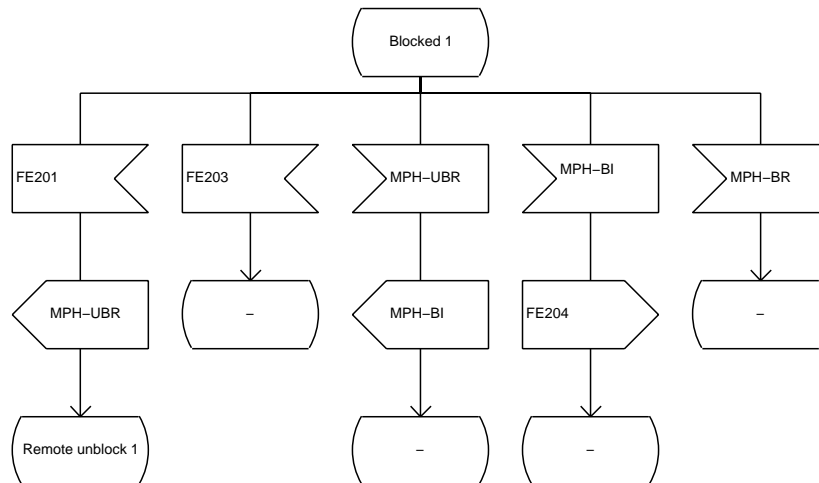
FEs received from peer entity in LE via AN\_PORT\_CONTROL\_PROTOCOL



FEs sent to peer entity in LE via AN\_PORT\_CONTROL\_PROTOCOL



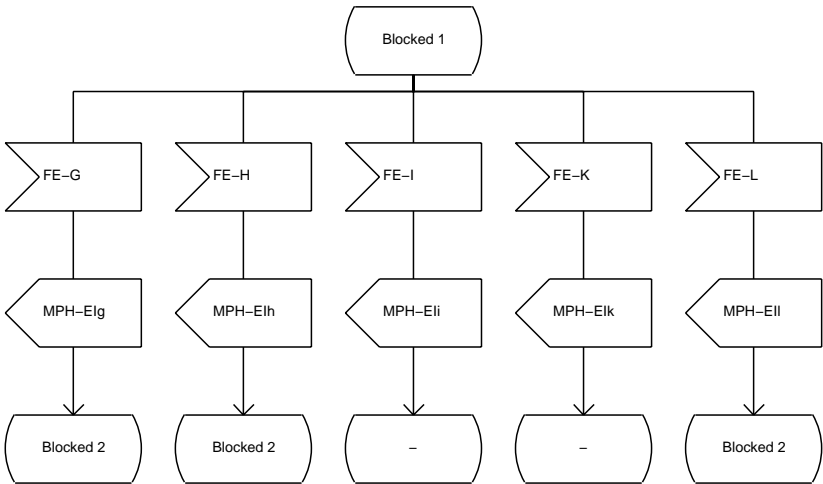
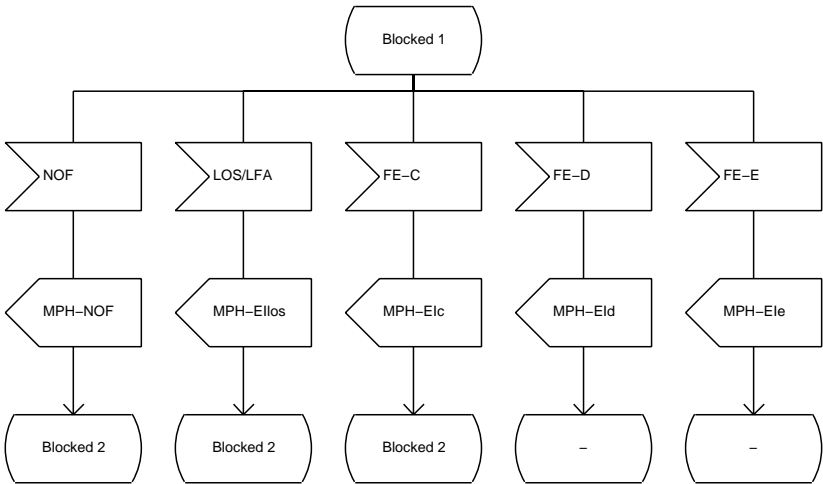
State  
AN1.01 (ISDN PRA port)





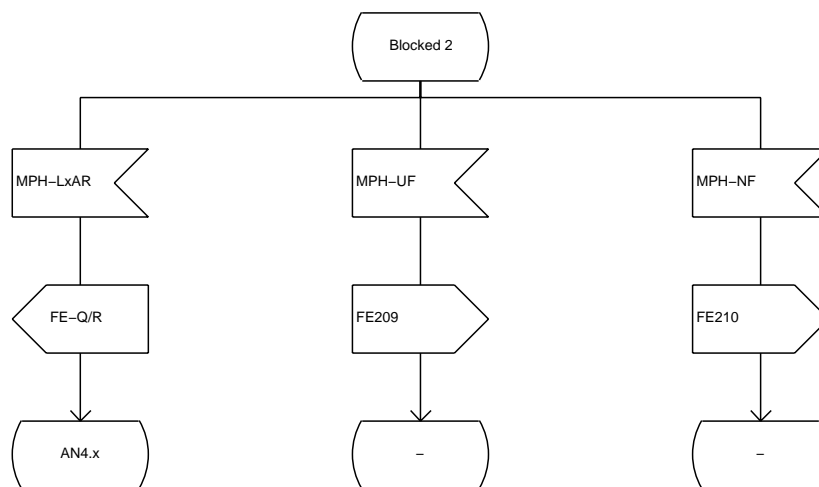
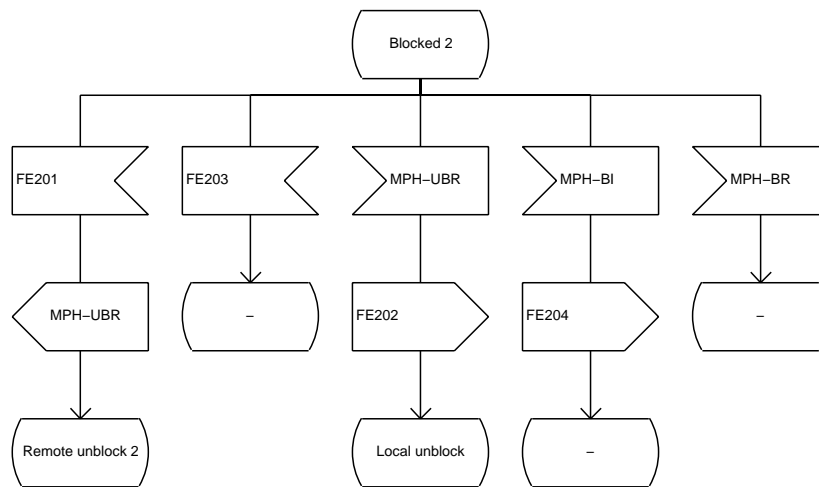


State  
AN1.01 (ISDN PRA port)



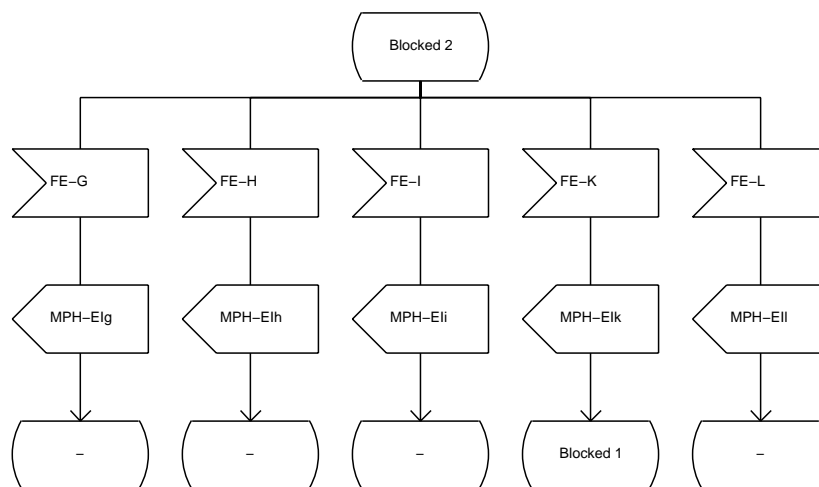
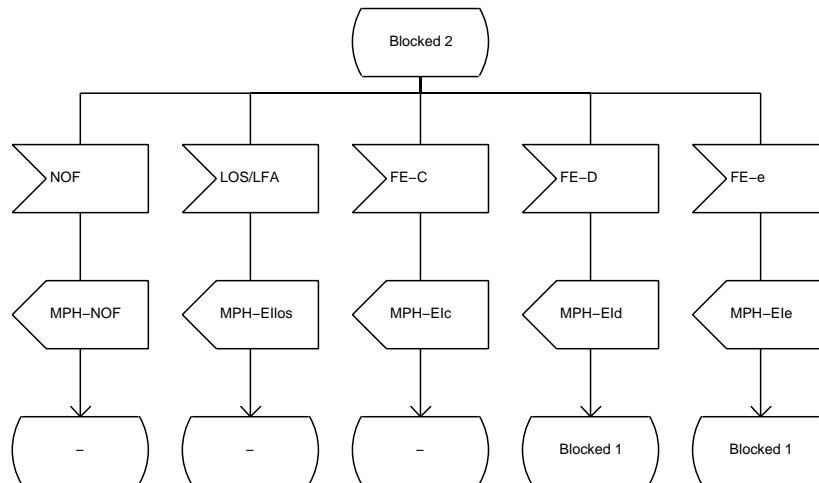


State  
AN1.1 (ISDN PRA port)



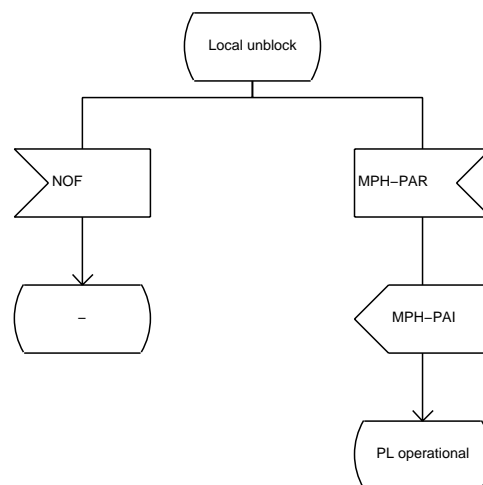
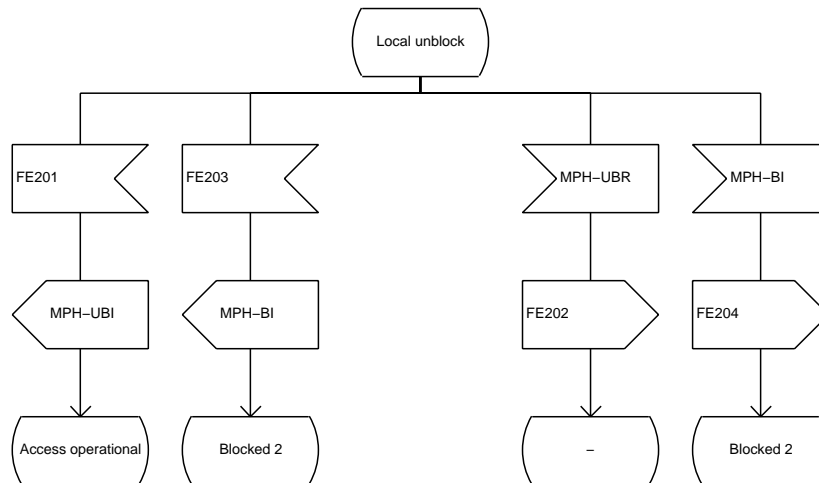


State  
AN1.02 (ISDN PRA port)



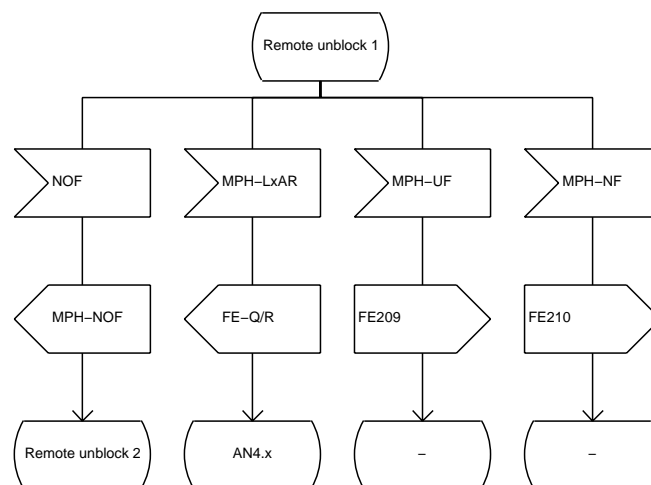
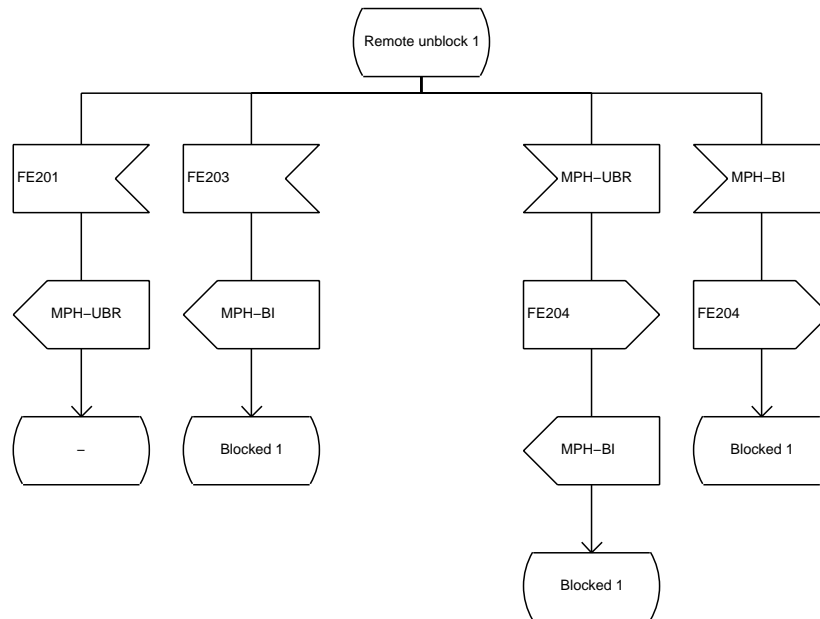


State  
AN1.1 (ISDN PRA port)



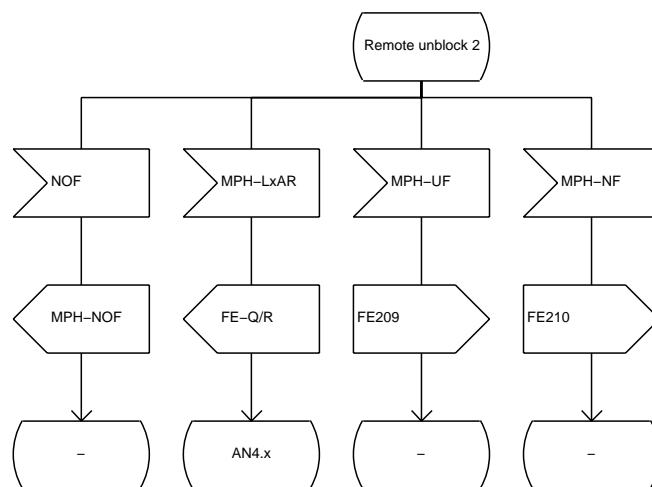
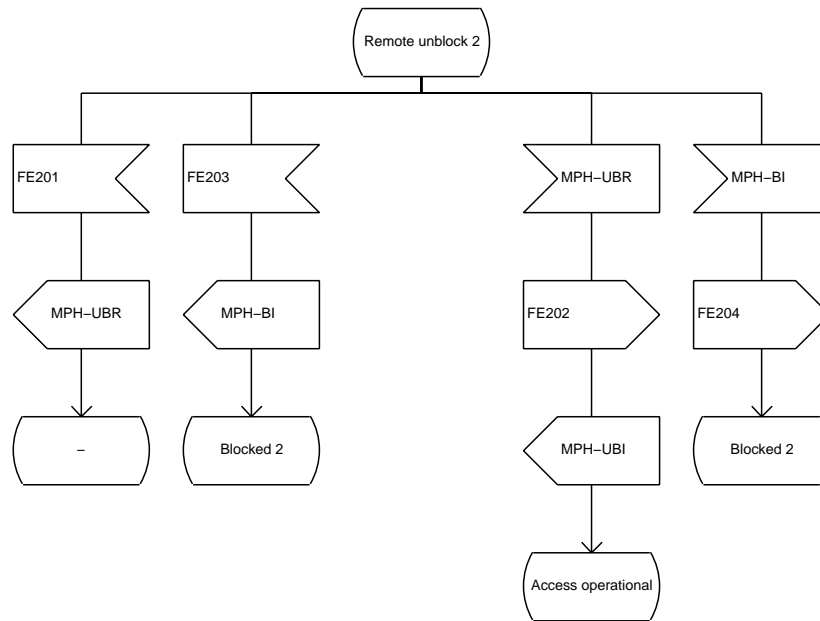


State  
AN1.21 (ISDN PRA port)



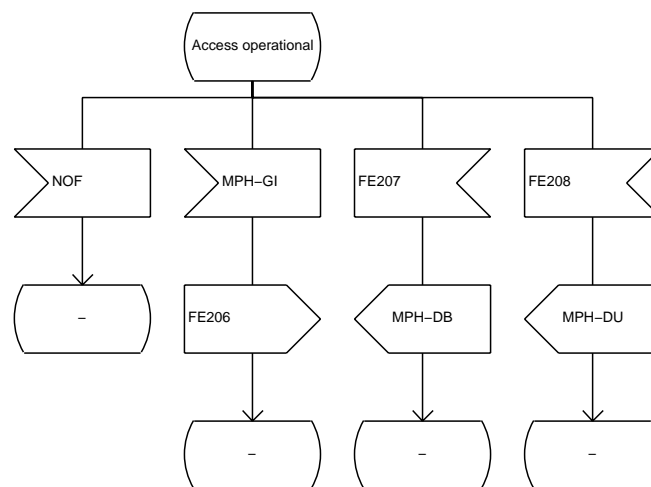
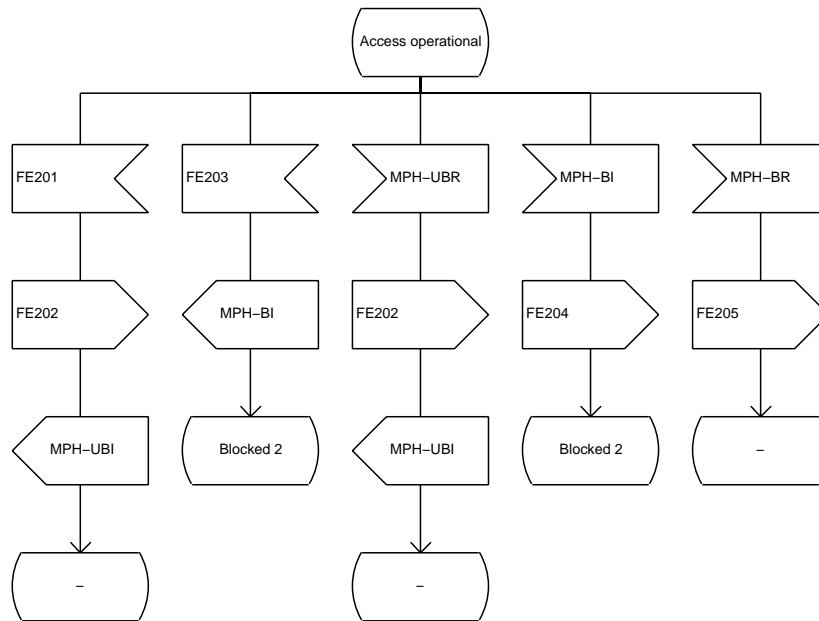


State  
AN1.22 (ISDN PRA port)



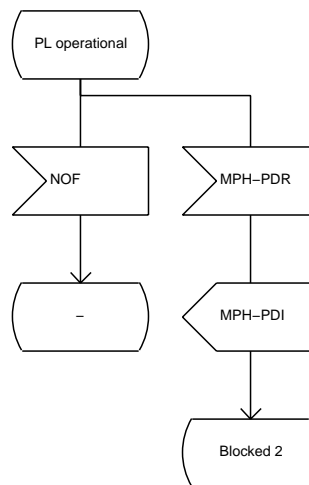
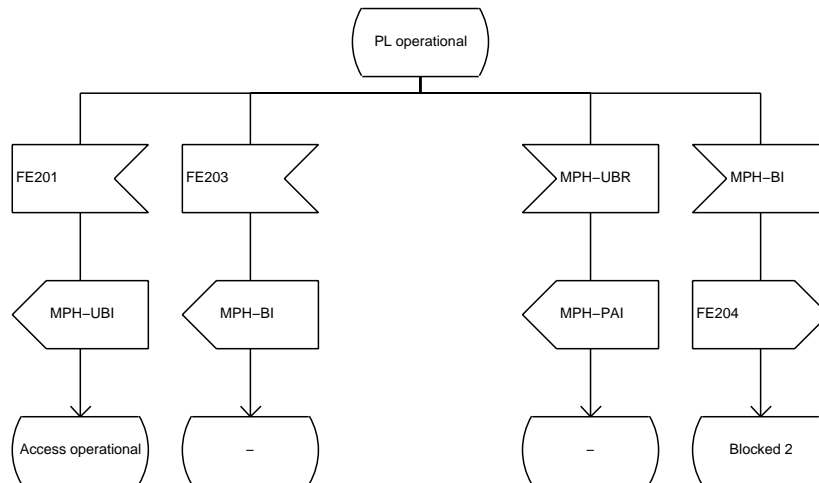


State  
AN2.0 (ISDN PRA port)





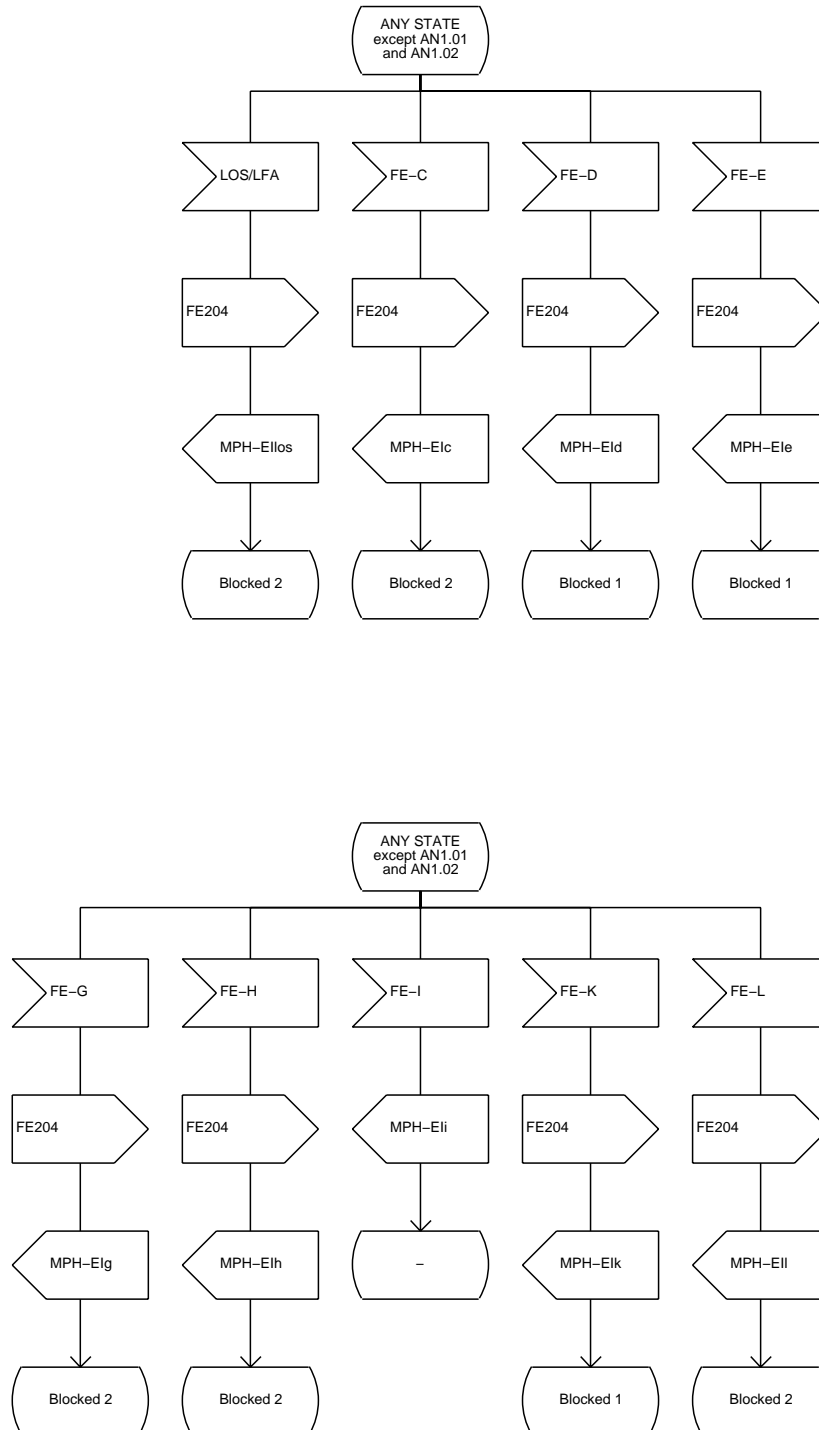
State  
AN3.0 (ISDN PRA port)

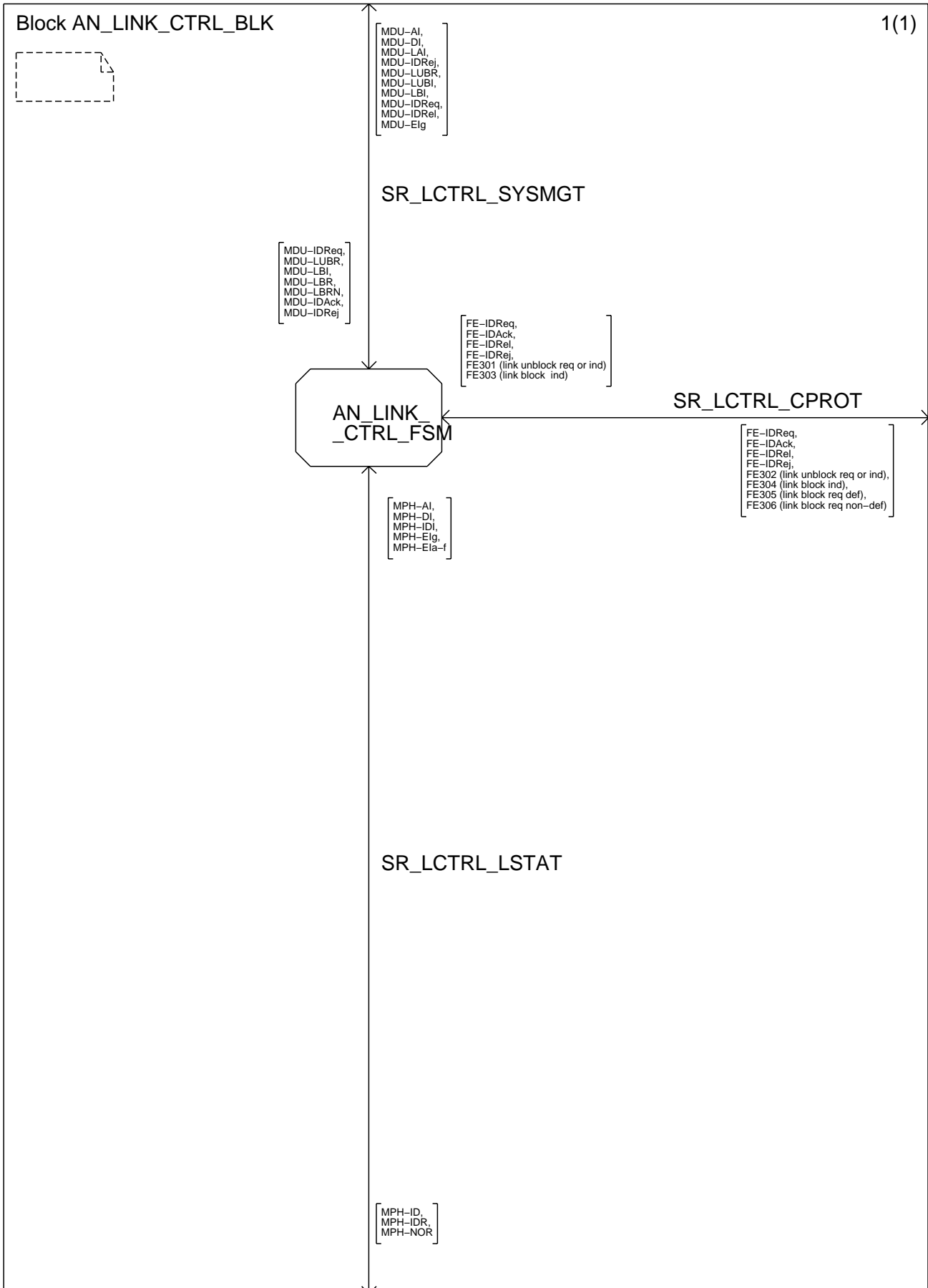






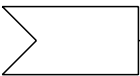
Any State  
except AN1.01  
and AN1.02







AN\_LINK\_CTRL\_FSM  
message direction description



MDU primitives received from AN\_System\_Management



MDU primitives sent to AN\_System\_Management



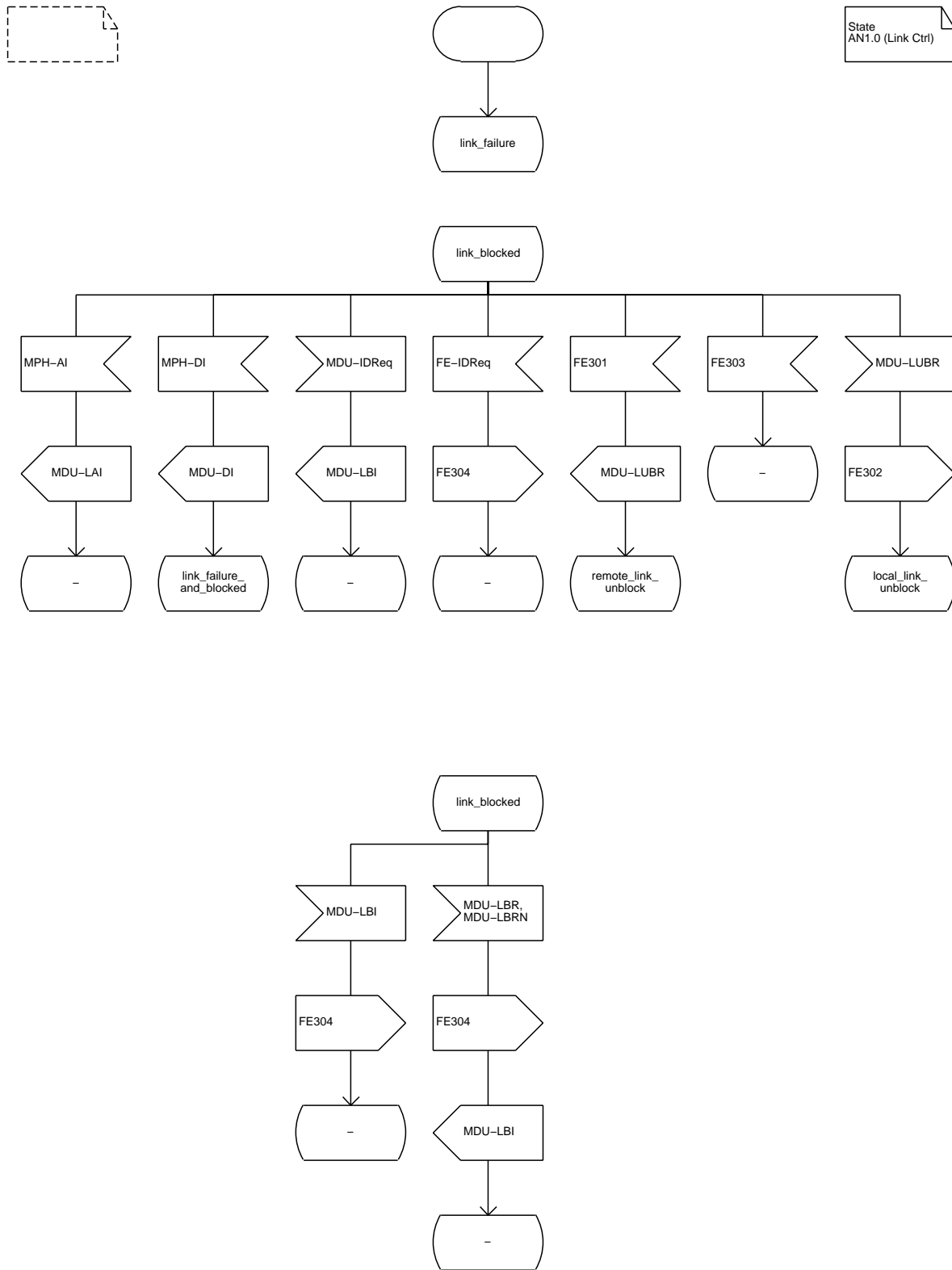
MPH primitives received from AN\_V5\_link\_status\_FSM  
FE received from peer entity in LE via AN\_LINK\_CONTROL\_PROTOCOL



MPH primitives sent to AN\_V5\_link\_status\_FSM  
FE sent to peer entity in LE via AN\_LINK\_CONTROL\_PROTOCOL

# Process AN\_LINK\_CTRL\_FSM

2(8)

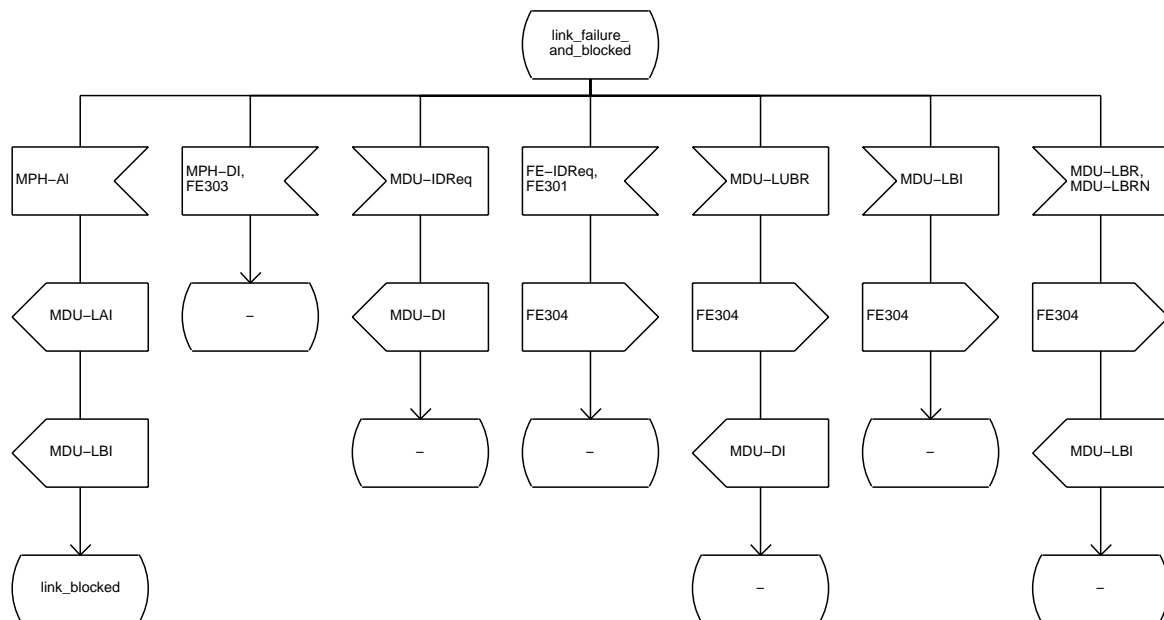
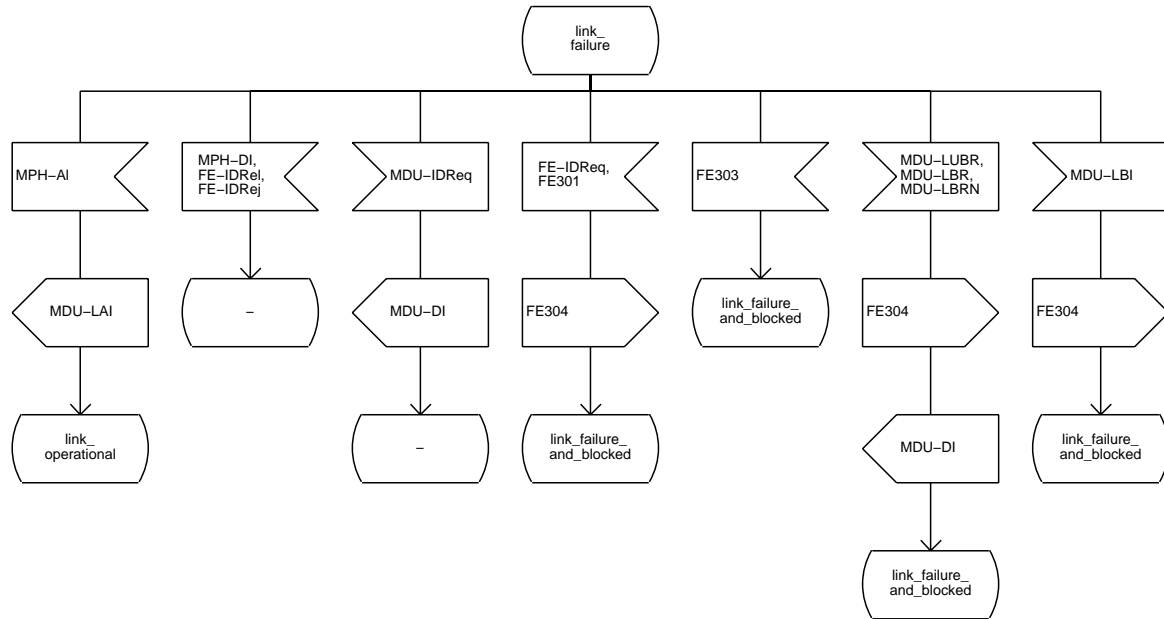


# Process AN\_LINK\_CTRL\_FSM

3(8)



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

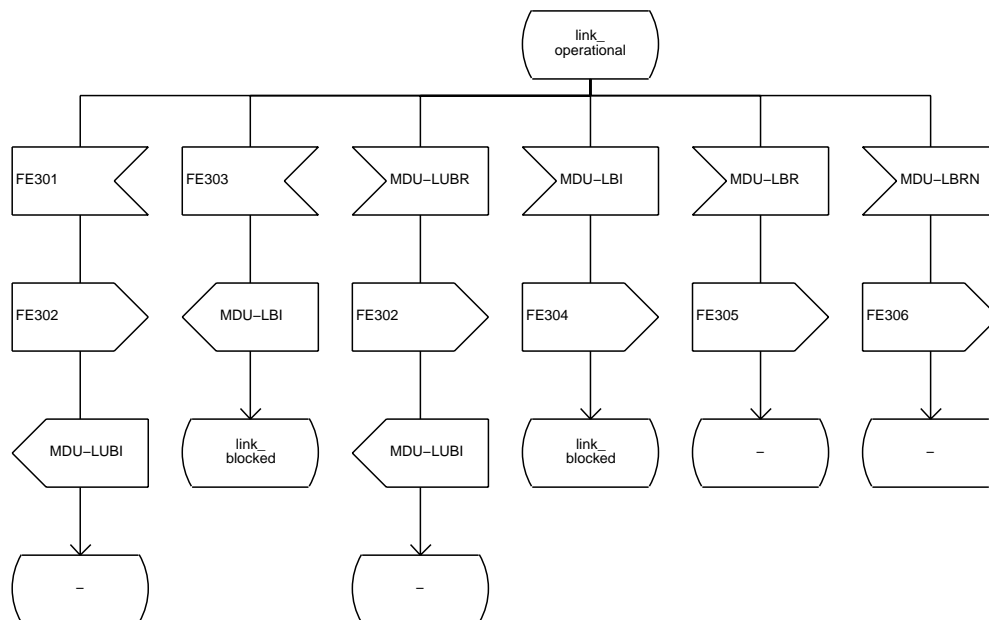
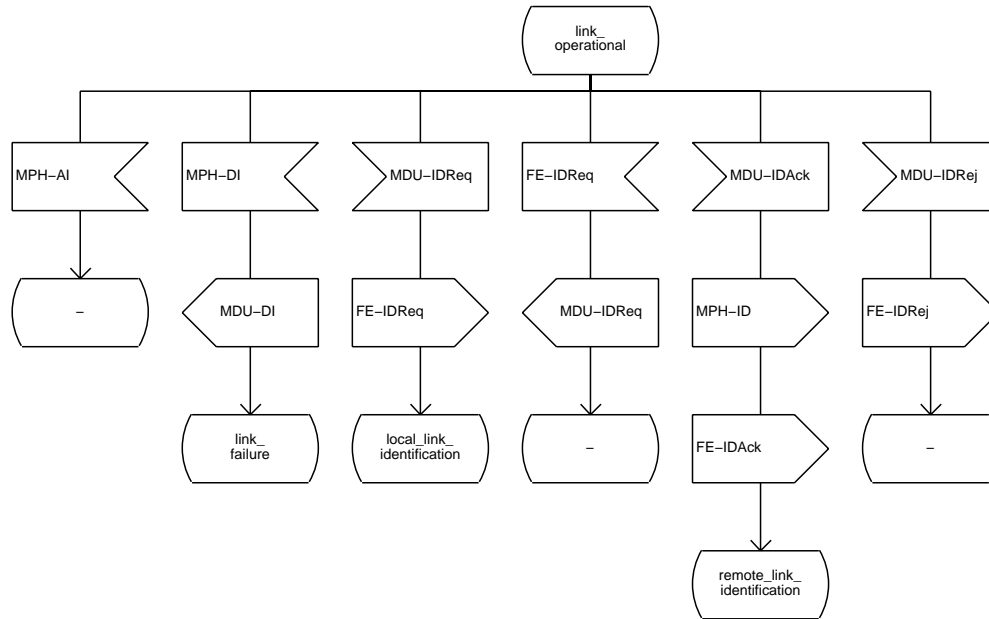


# Process AN\_LINK\_CTRL\_FSM

4(8)

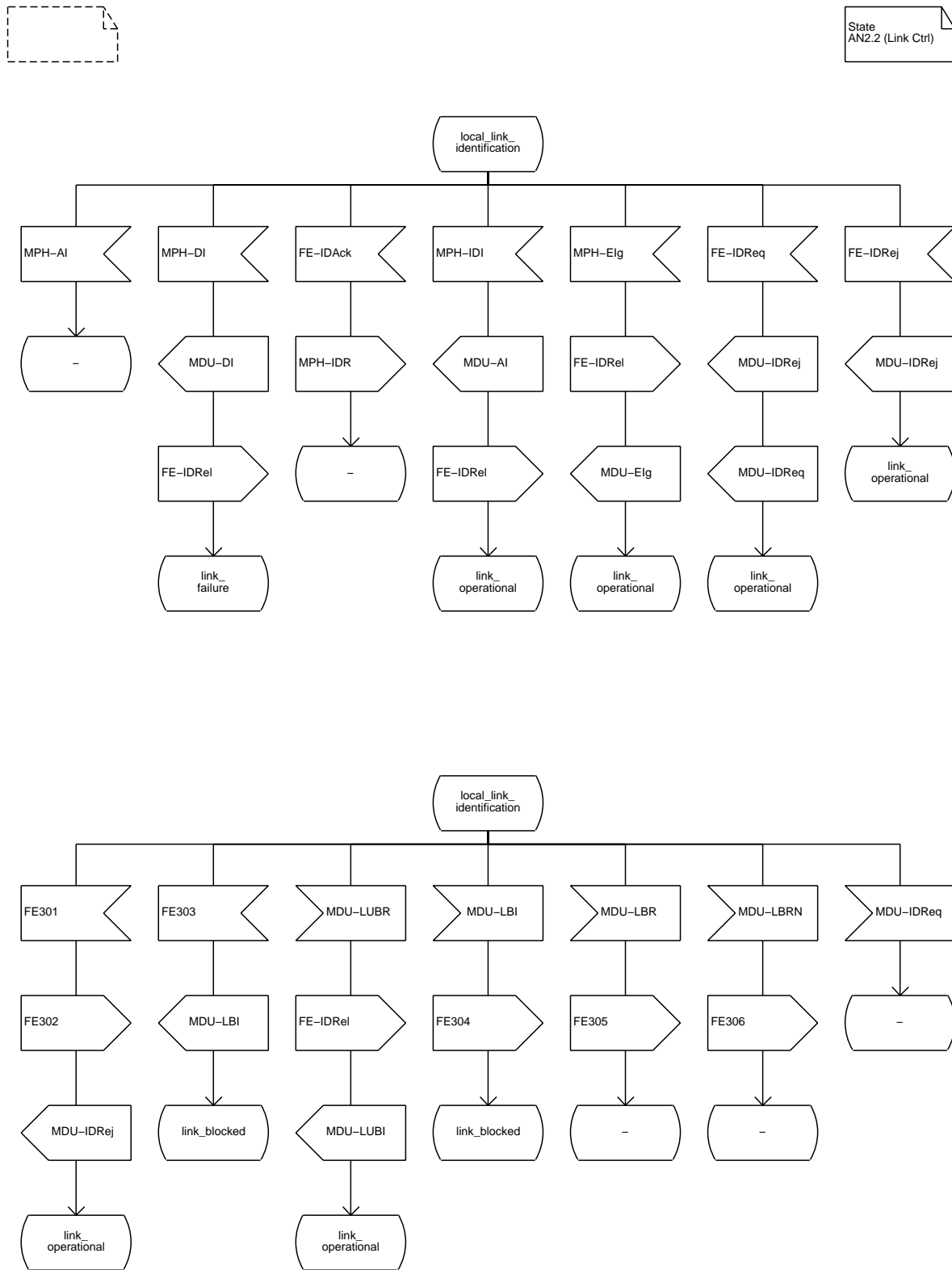


State  
AN2.0 (Link Ctrl)



# Process AN\_LINK\_CTRL\_FSM

5(8)

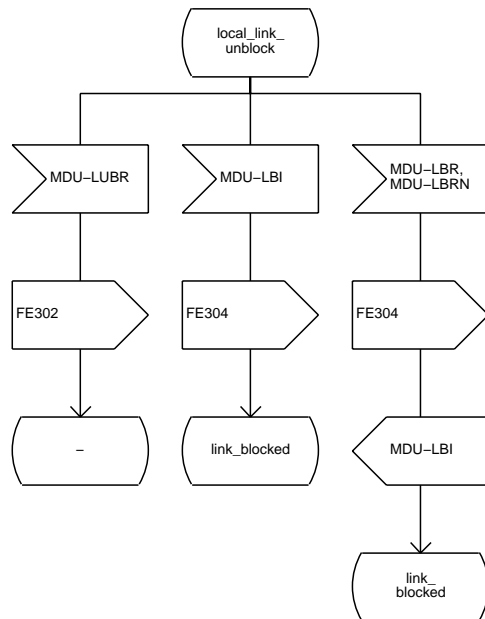
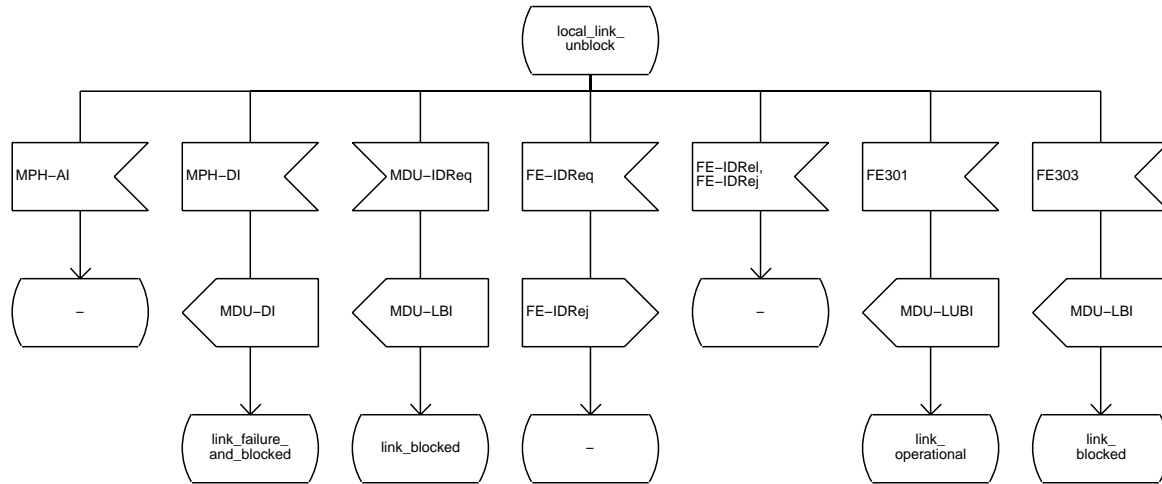


# Process AN\_LINK\_CTRL\_FSM

6(8)



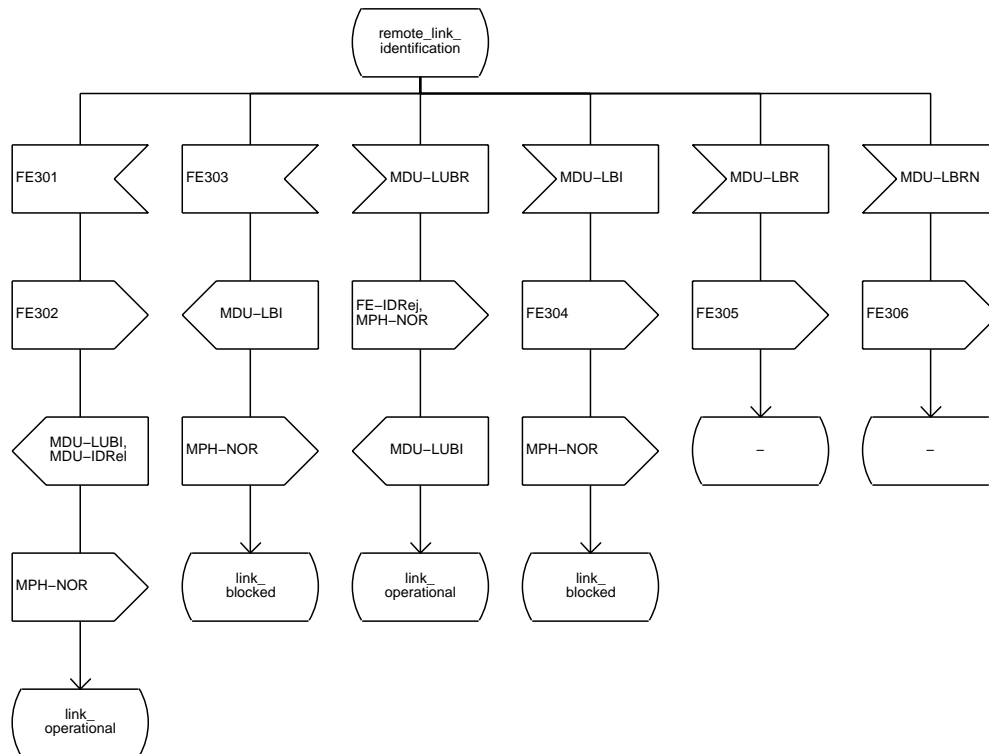
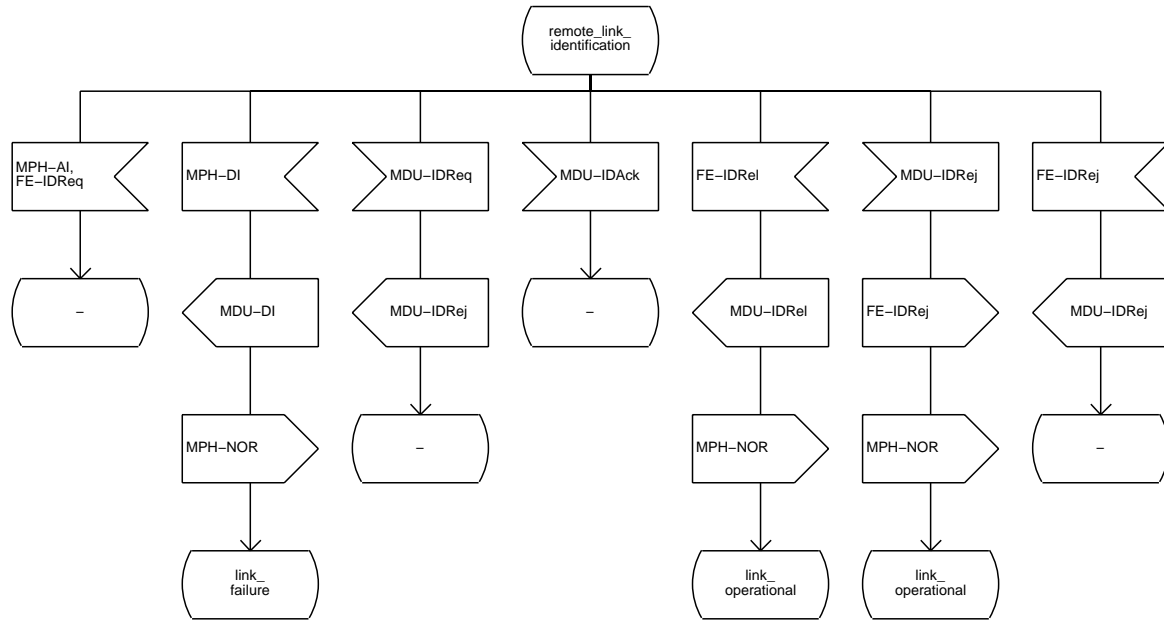
State  
AN1.1 (Link Ctrl)







State  
AN2.1 (Link Ctrl)

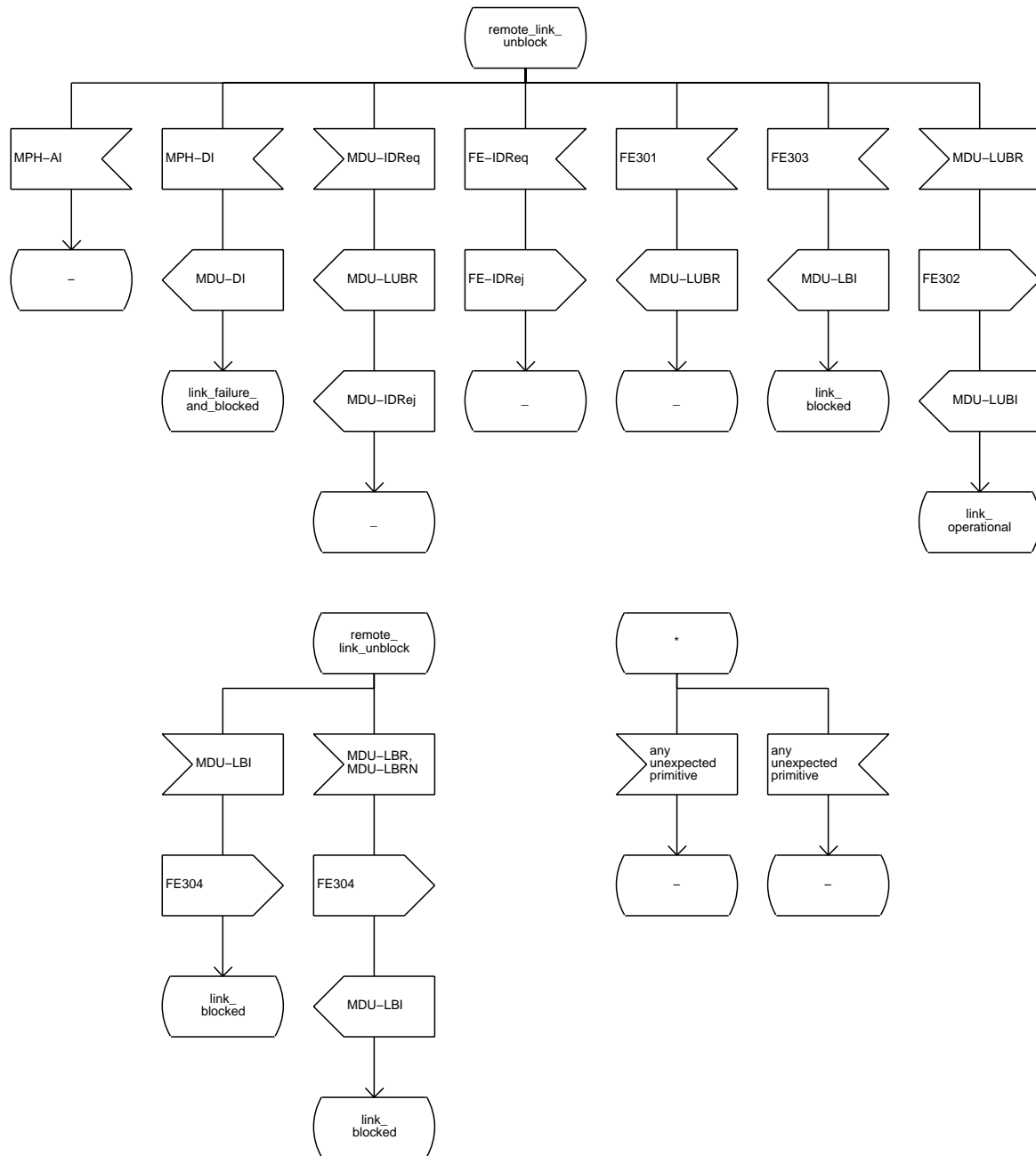


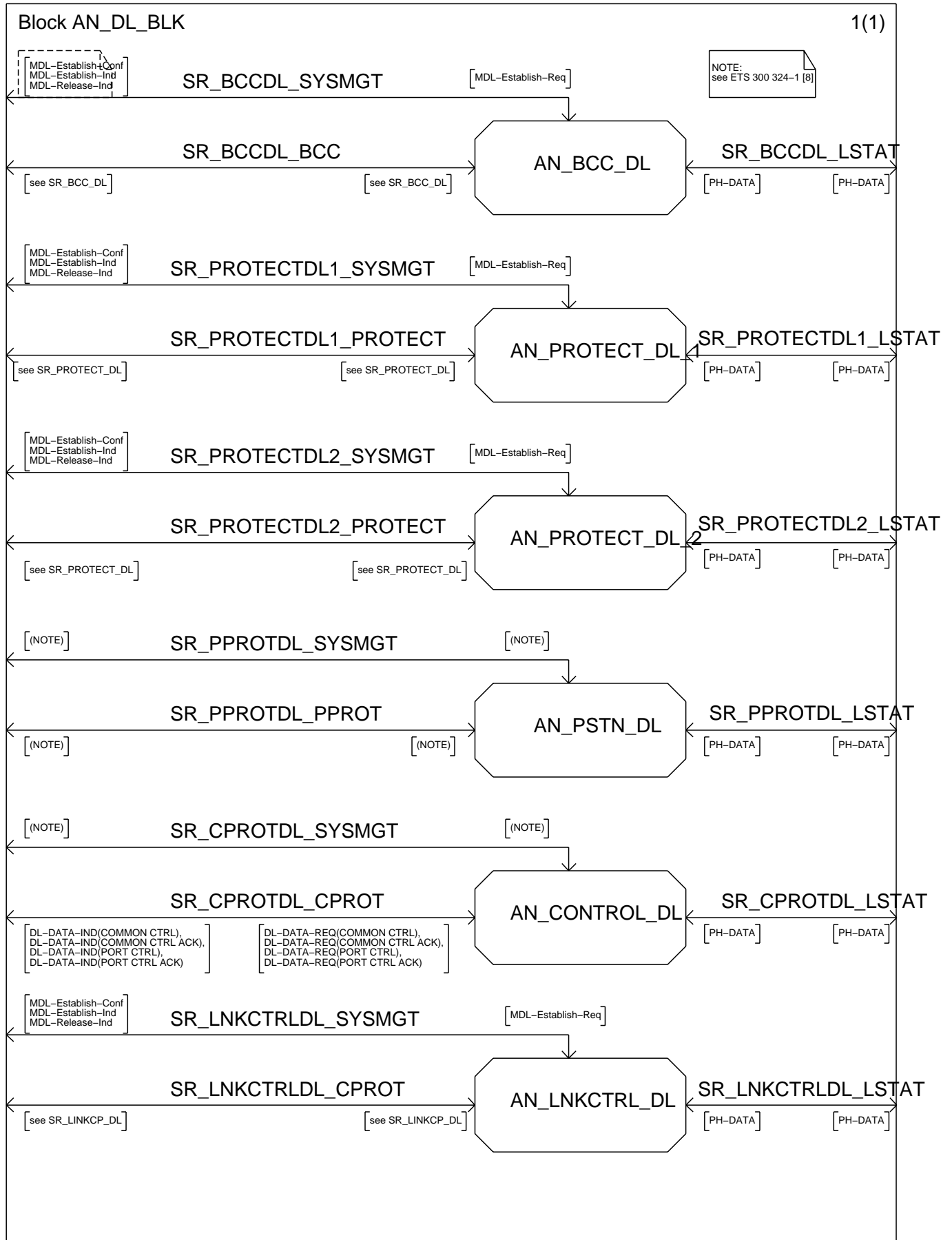
# Process AN\_LINK\_CTRL\_FSM

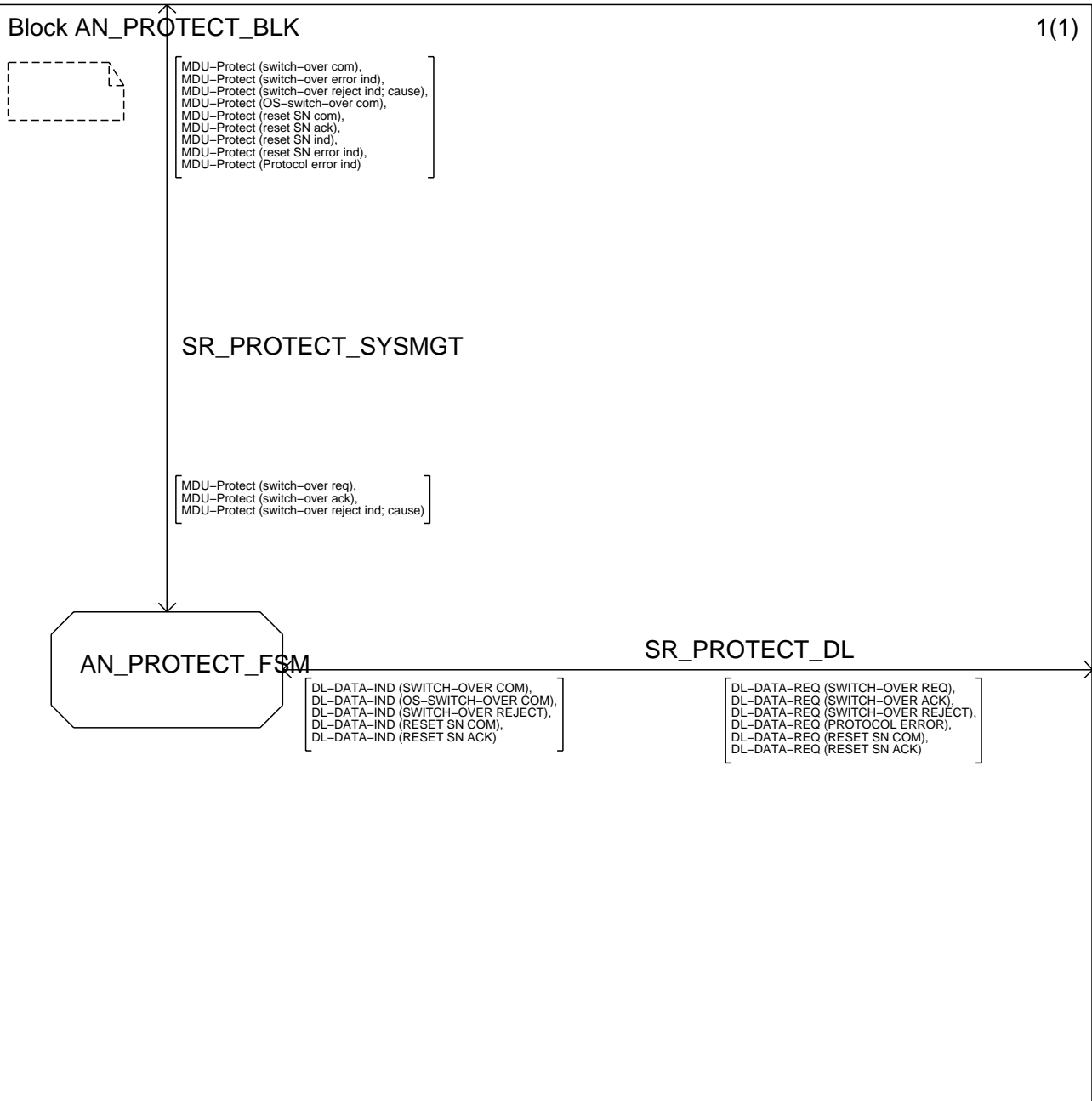
8(8)



State  
AN1.2 and any  
state (Link Ctrl)

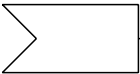








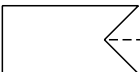
AN\_PROTECT\_FSM  
message direction description



MDU-Protect primitives received from AN\_System\_Management  
Timeouts



MDU-Protect primitives sent to AN\_System\_Management

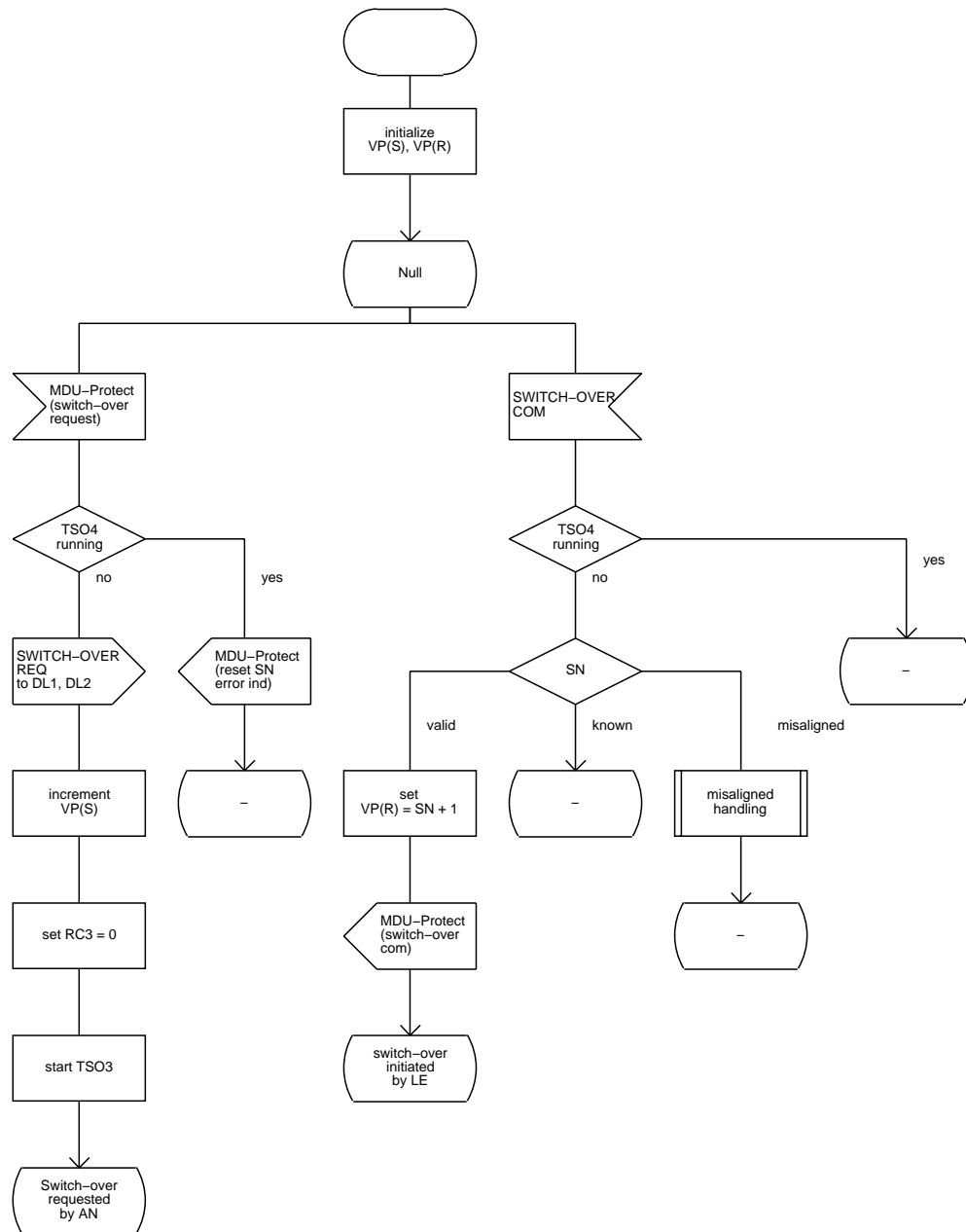


Messages received from peer entity in LE via AN\_PROTECT\_DL

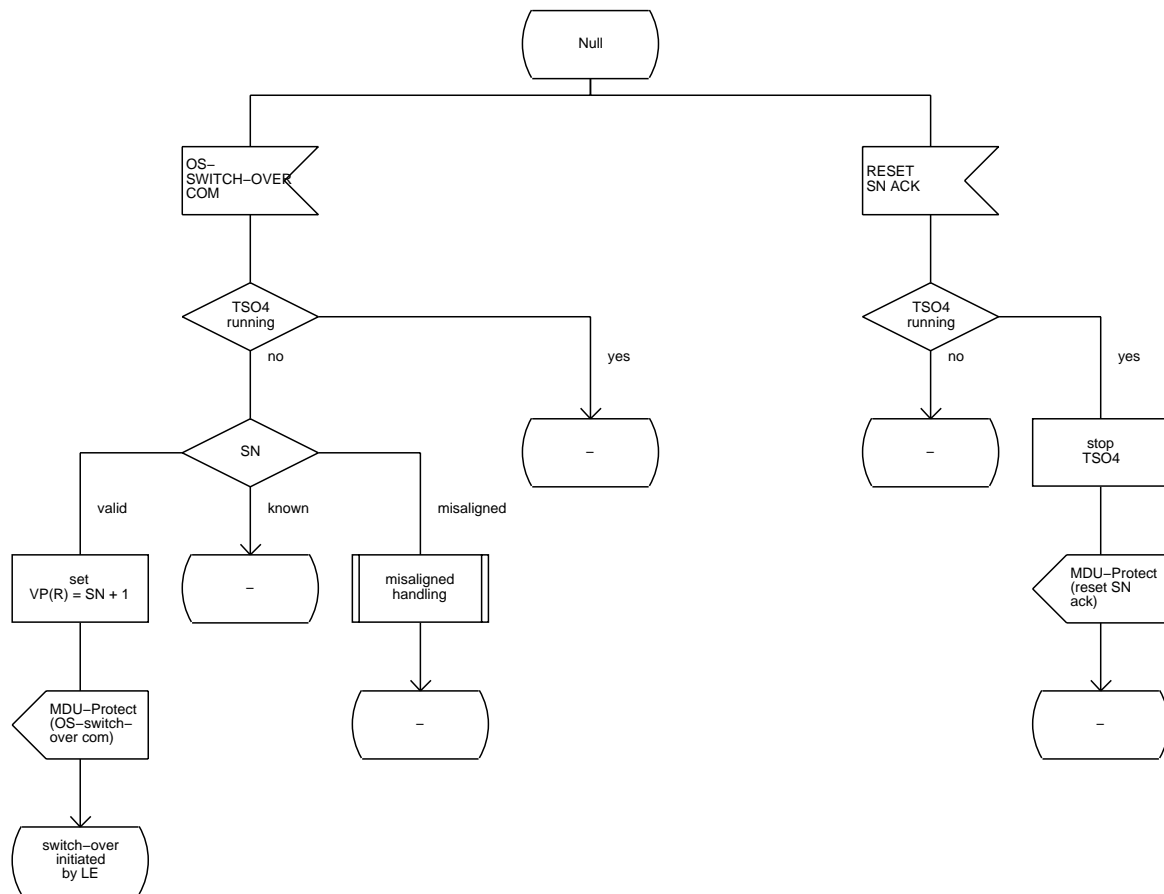


Messages sent to peer entity in LE via AN\_PROTECT\_DL

State  
SOAN0 (Protection Protocol)



State  
SOAN0 (Protection Protocol)

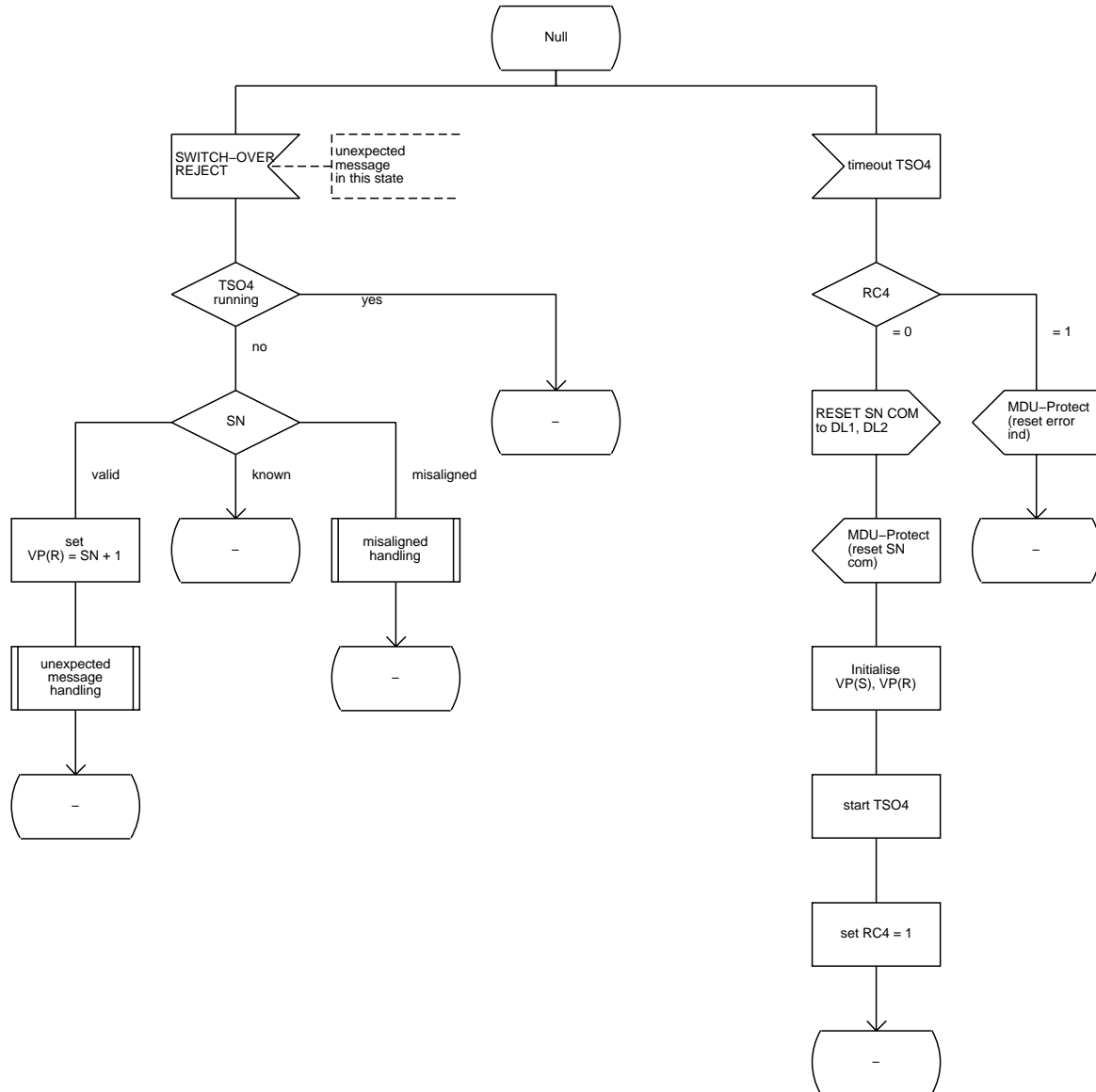


# Process AN\_PROTECT\_FSM

4(7)

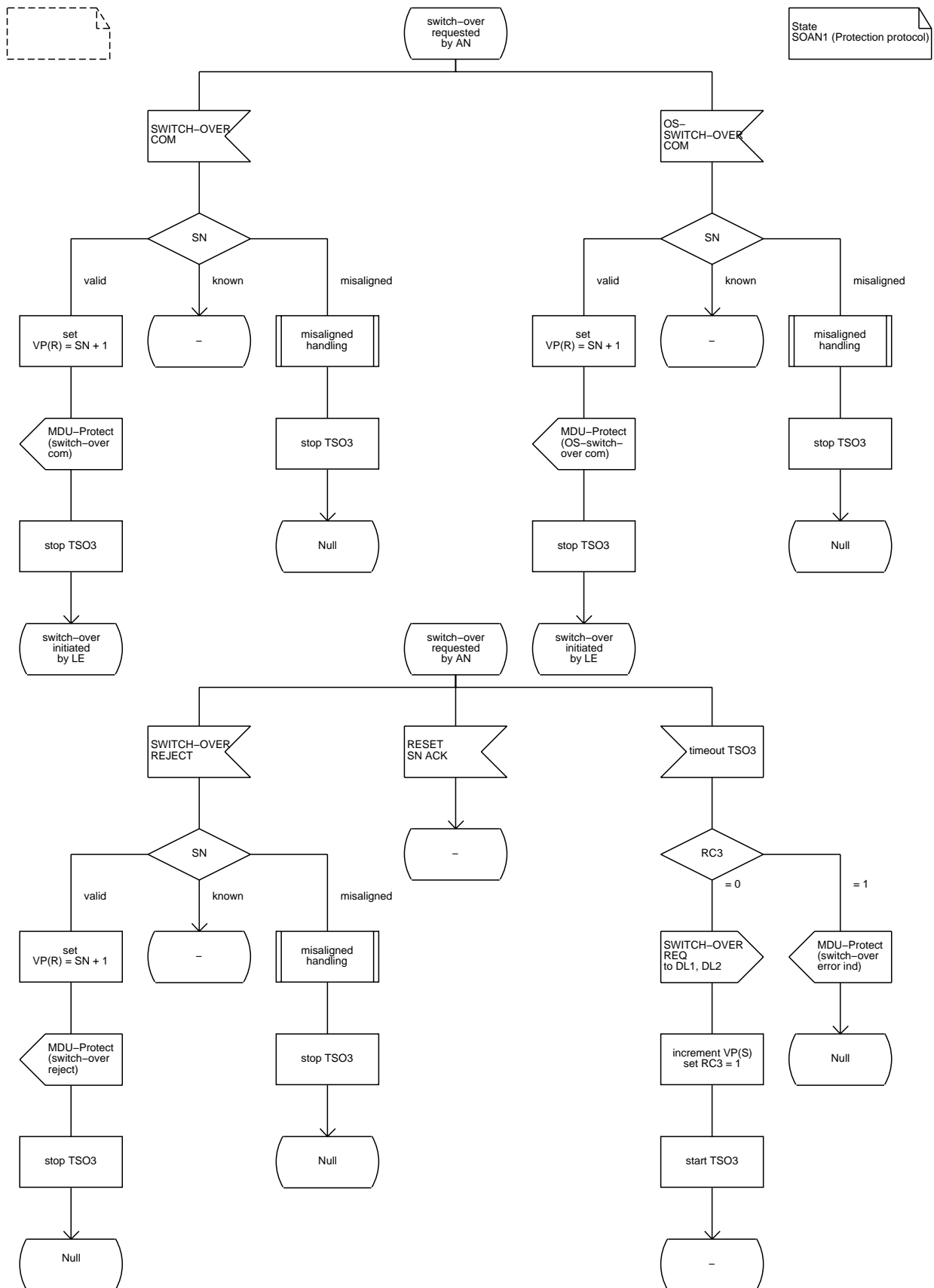


State  
SOAN0 (Protection Protocol)





5(7)

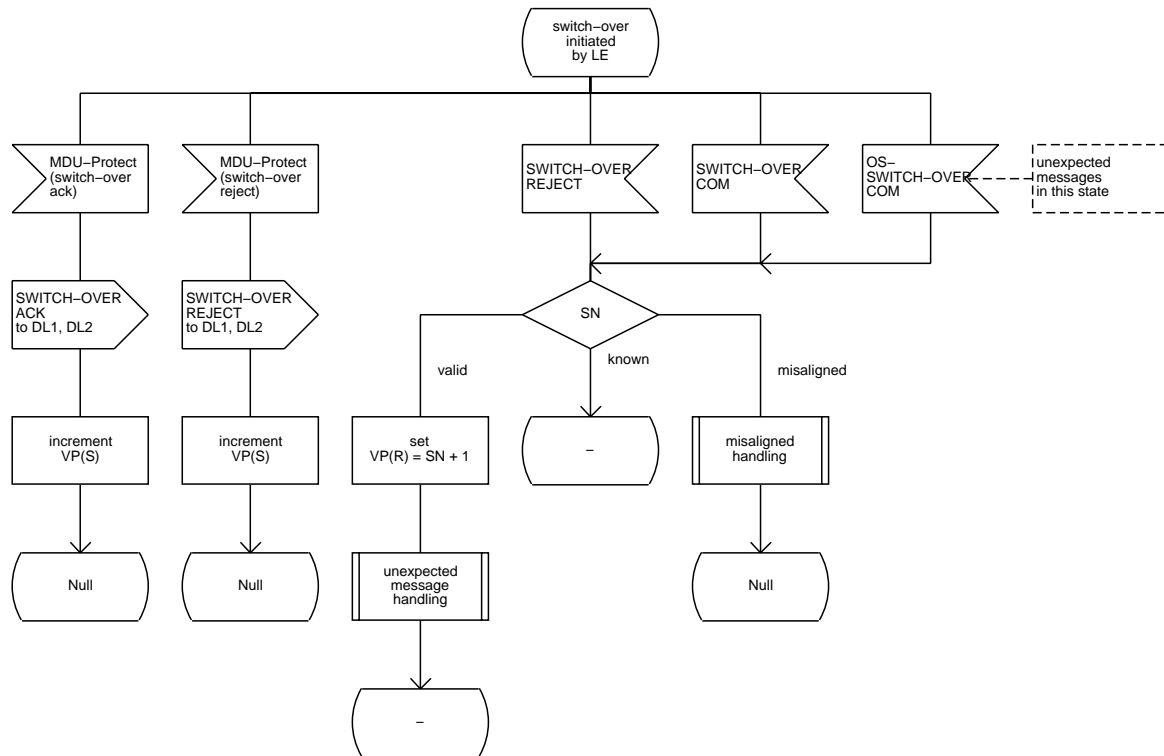


# Process AN\_PROTECT\_FSM

6(7)



State  
SOAN2 (Protection Protocol)

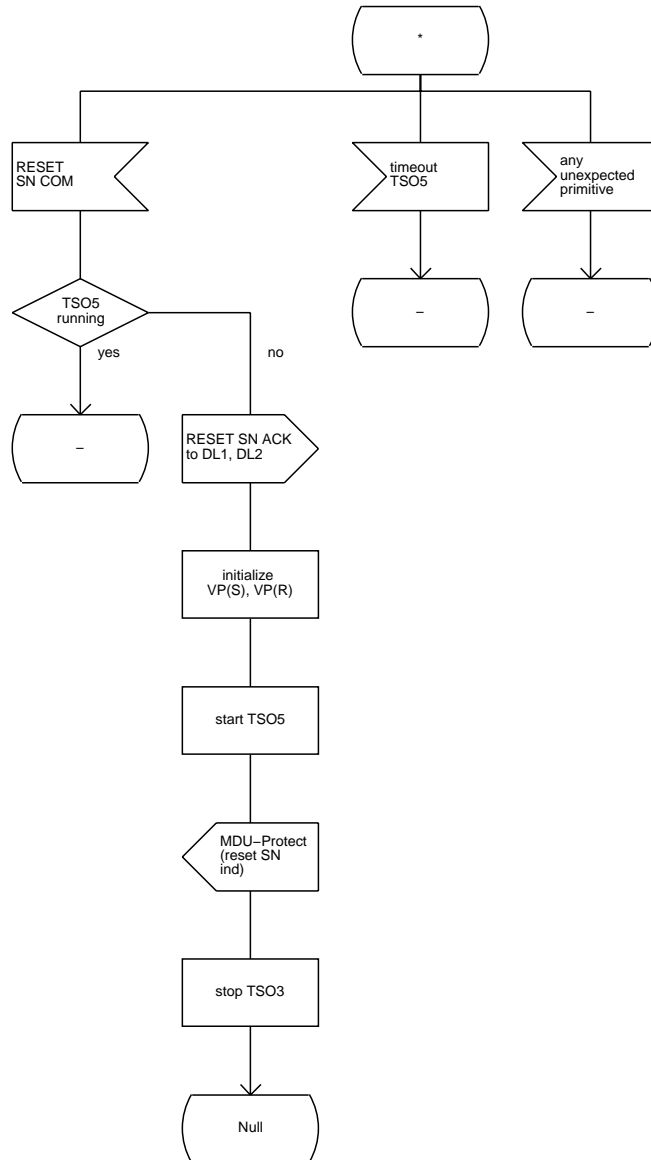


# Process AN\_PROTECT\_FSM

7(7)



Any State  
(Protection Protocol)



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)]

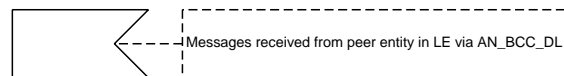
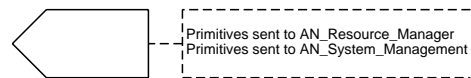
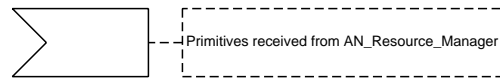
[MDU-BCC(Allocation response (complete) ),  
MDU-BCC(Allocation response (reject) ),  
MDU-BCC(Deallocation response (complete) ),  
MDU-BCC(Deallocation response (reject) ),  
MDU-BCC(Audit response),  
MDU-BCC(AN fault request)]

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)]

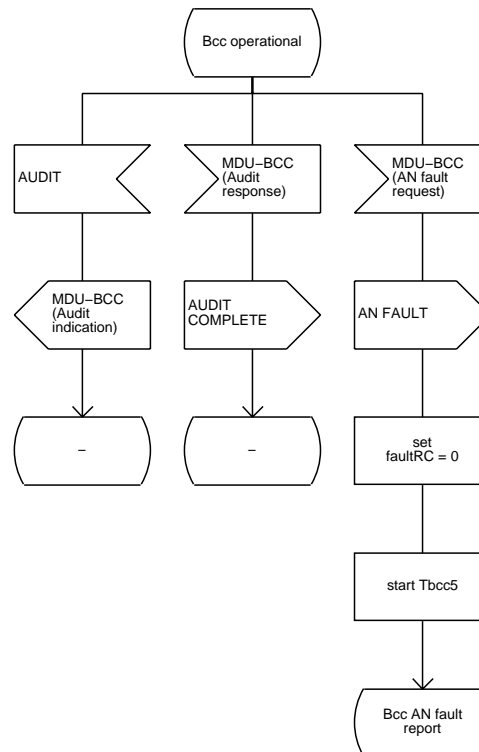
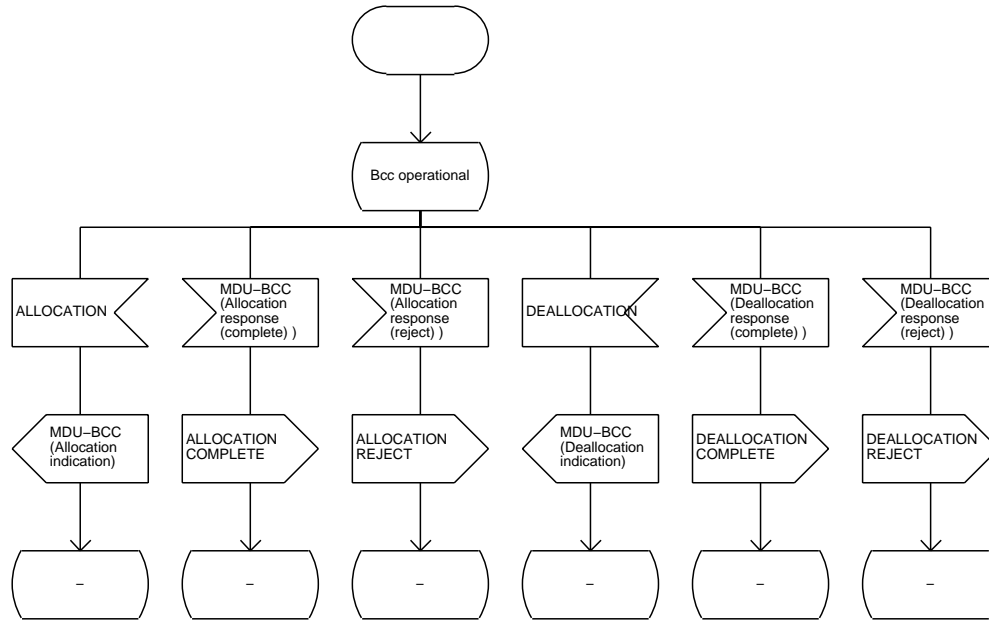


AN\_BCC\_PROTOCOL\_FSM  
message direction description





State  
ANBcc0 (BCC)





State  
ANBcc1(BCC)

