Incoming ISUP and Outgoing ISUP Transit Call (ISUP to ISUP Successful Call - Calling Subscriber Releases First)

switching system

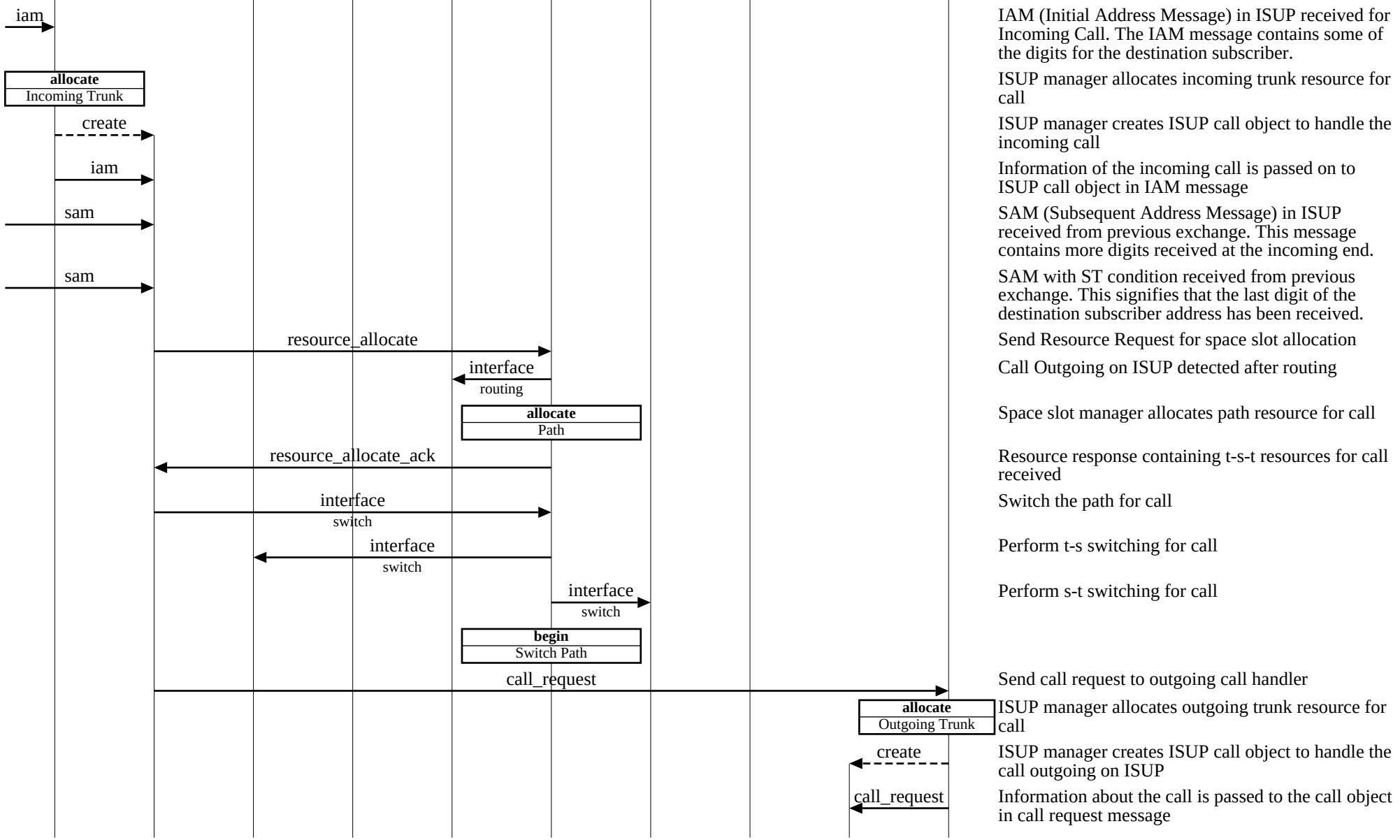
call handler1				central processor		call handler2			
isup mgr1	isup call1	ts mgr1	tone mgr1	rout mgr	ss mgr	ts mgr2	tone mgr2	isup call2	isup mgr2

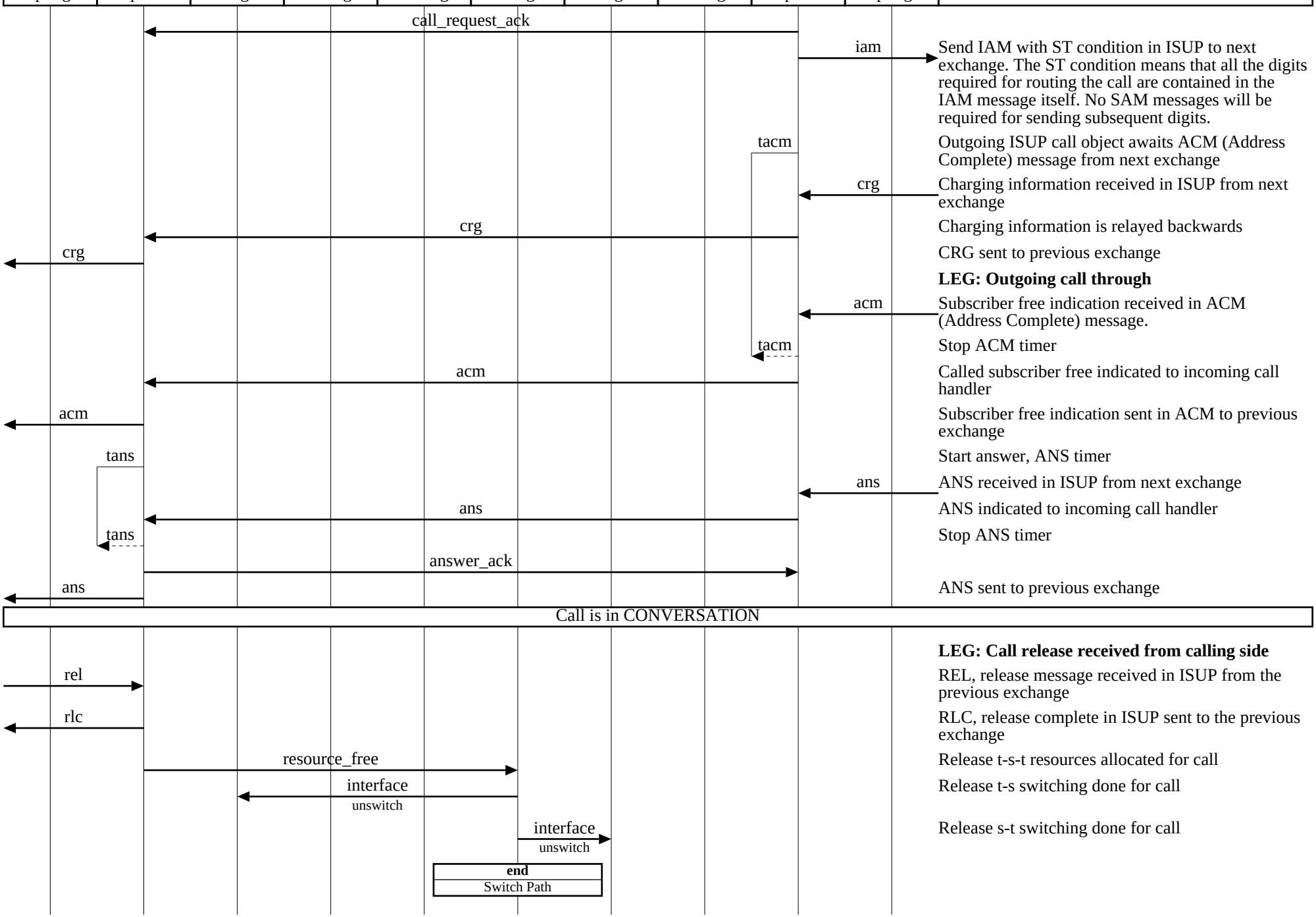
EventHelix.com/EventStudio 1.5

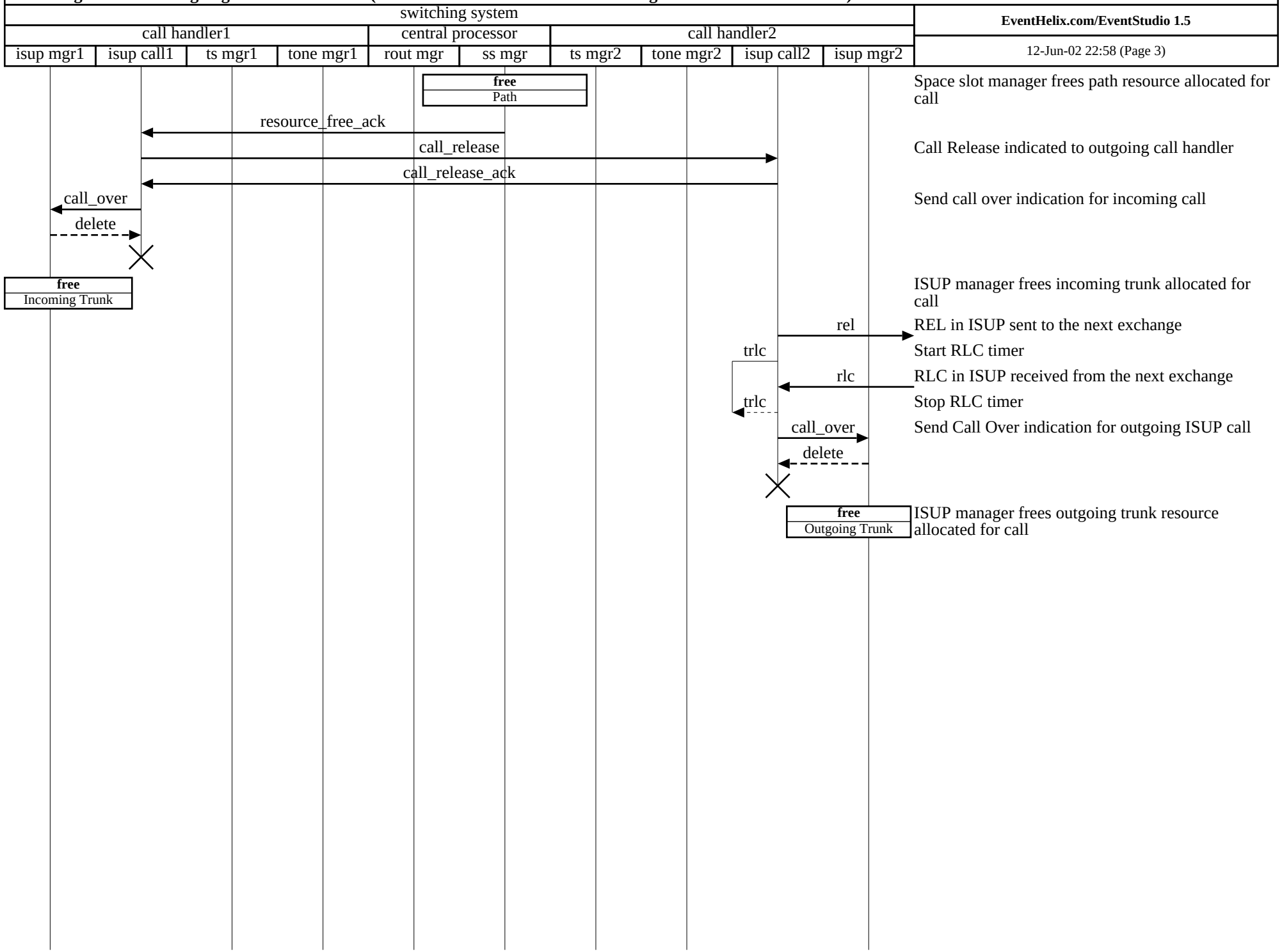
12-Jun-02 22:58 (Page 1)

This Message Sequence Chart describes an ISUP (ISDN User Part) call. The call is incoming ISUP and after routing it is sent out on an ISUP trunk

Call incoming on ISUP




switching system
call handler1
central processor
call handler2
isup mgr1
isup call1
ts mgr1
tone mgr1
rout mgr
ss mgr
ts mgr2
tone mgr2
isup call2
isup mgr2
call_request_ack
iam
Send IAM with ST condition in ISUP to next exchange. The ST condition means that all the digits required for routing the call are contained in the IAM message itself. No SAM messages will be required for sending subsequent digits.
tacm
Outgoing ISUP call object awaits ACM (Address Complete) message from next exchange
crg
Charging information received in ISUP from next exchange
crg
Charging information is relayed backwards
crg
CRG sent to previous exchange
LEG: Outgoing call through
acm
Subscriber free indication received in ACM (Address Complete) message.
tacm
Stop ACM timer
acm
Called subscriber free indicated to incoming call handler
acm
Subscriber free indication sent in ACM to previous exchange
tans
Start answer, ANS timer
ans
ANS received in ISUP from next exchange
ans
ANS indicated to incoming call handler
tans
Stop ANS timer
answer_ack
ans
ANS sent to previous exchange
Call is in CONVERSATION
LEG: Call release received from calling side
rel
REL, release message received in ISUP from the previous exchange
rlc
RLC, release complete in ISUP sent to the previous exchange
resource_free
Release t-s-t resources allocated for call
interface
unswitch
Release t-s switching done for call
interface
unswitch
Release s-t switching done for call
end
Switch Path


switching system
call handler1
central processor
call handler2
isup mgr1
isup call1
ts mgr1
tone mgr1
rout mgr
ss mgr
ts mgr2
tone mgr2
isup call2
isup mgr2
free
Path
Space slot manager frees path resource allocated for call
resource_free_ack
call_release
Call Release indicated to outgoing call handler
call_release_ack
call_over
Send call over indication for incoming call
delete
free
Incoming Trunk
ISUP manager frees incoming trunk allocated for call
rel
REL in ISUP sent to the next exchange
trlc
Start RLC timer
rlc
RLC in ISUP received from the next exchange
trlc
Stop RLC timer
call_over
Send Call Over indication for outgoing ISUP call
delete
free
Outgoing Trunk
ISUP manager frees outgoing trunk resource allocated for call