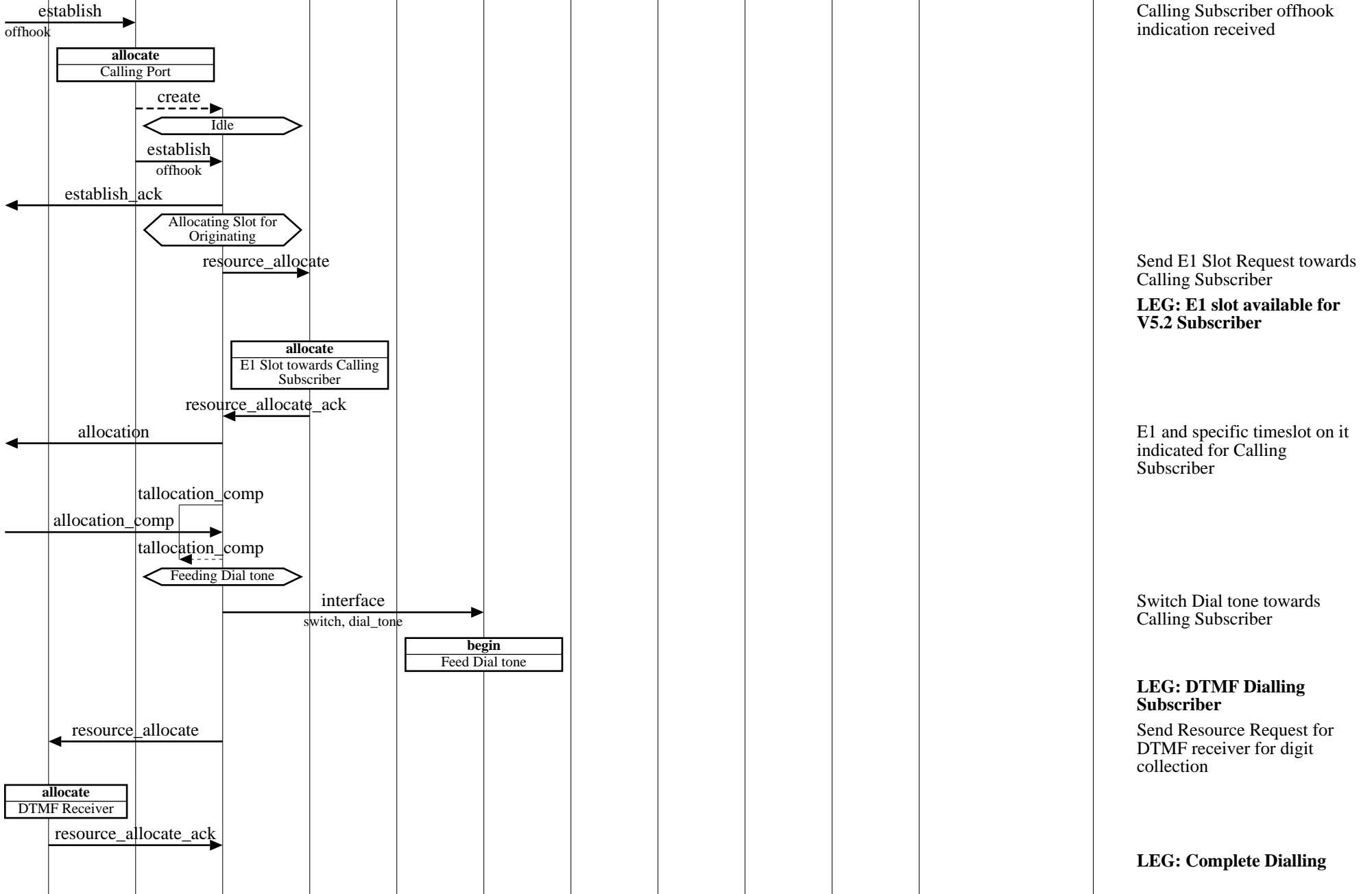


**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: Successful call)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas			xen2				22-Oct-00 19:26 (Page 1)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	

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Calling Subscriber offhook indication received

Send E1 Slot Request towards Calling Subscriber  
**LEG: E1 slot available for V5.2 Subscriber**

E1 and specific timeslot on it indicated for Calling Subscriber

Switch Dial tone towards Calling Subscriber

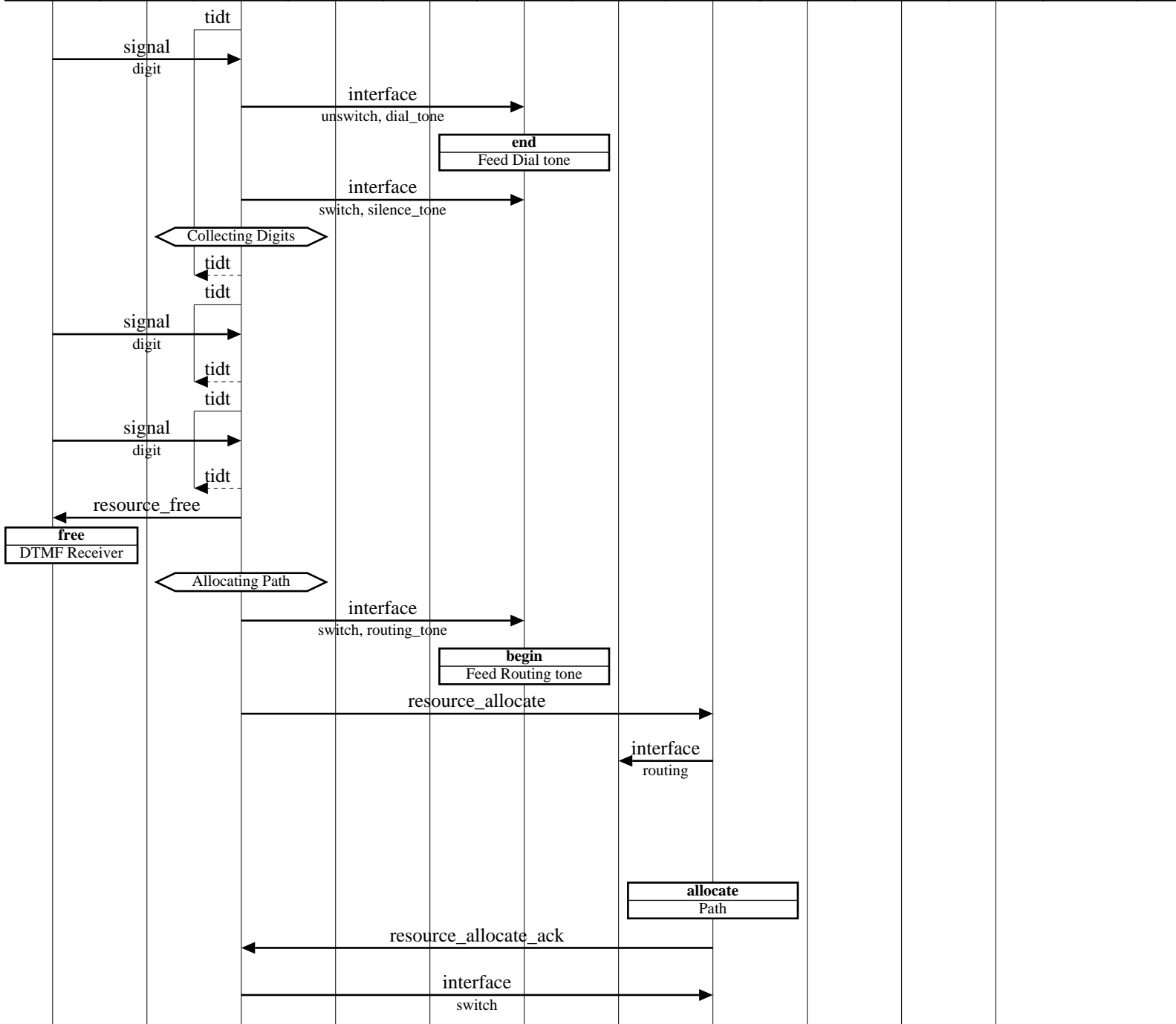
**LEG: DTMF Dialing Subscriber**

Send Resource Request for DTMF receiver for digit collection

**LEG: Complete Dialling**

**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: Successful call)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 2)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Start IDT timer  
 DTMF digit dialled by Calling Subscriber received  
 Stop Dial tone towards Calling Subscriber

Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received  
 End of dialling detected  
 Release the DTMF receiver

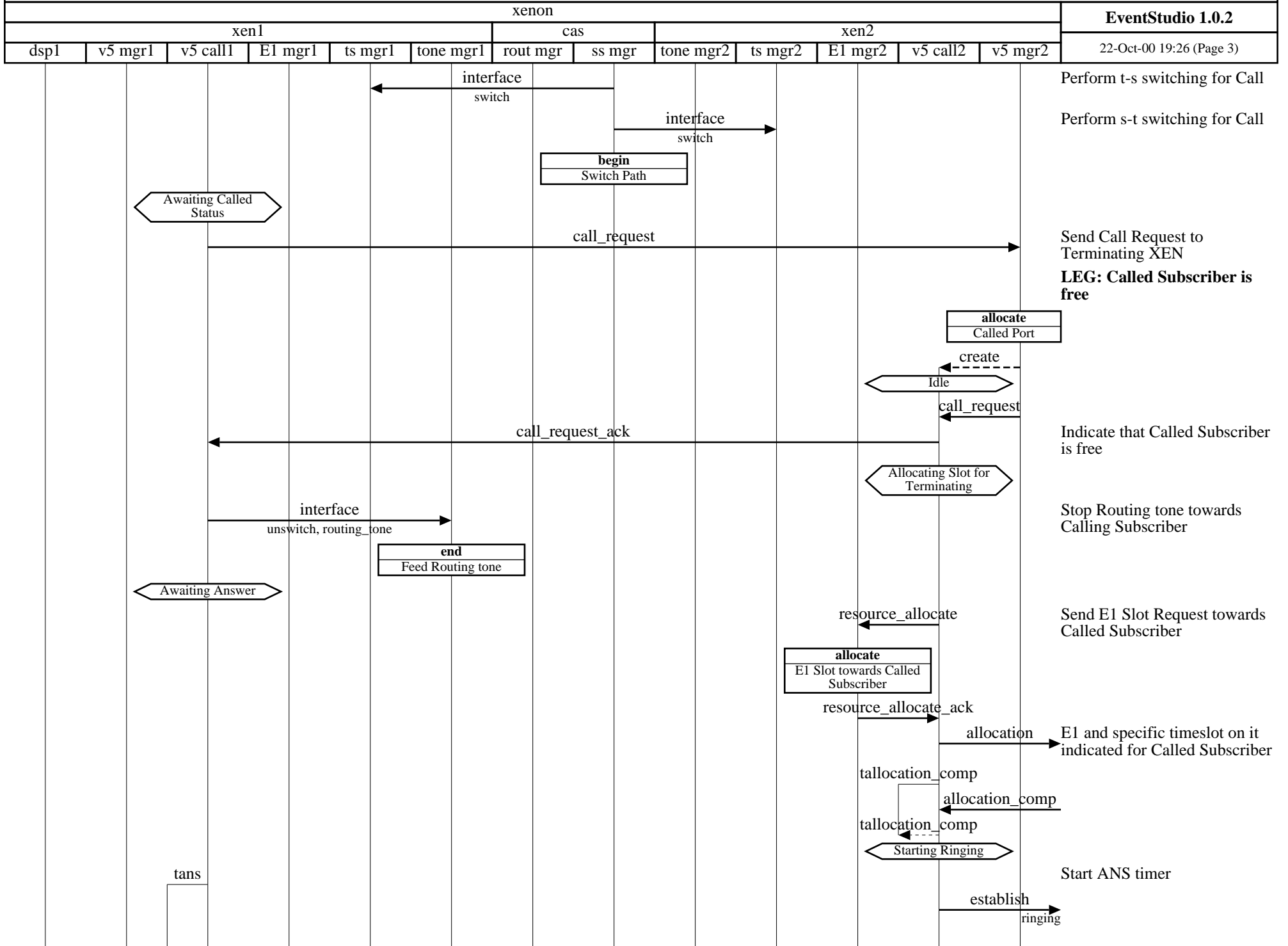
Switch Routing tone towards Calling Subscriber

Send Resource Request for space slot  
 Call Routing being performed

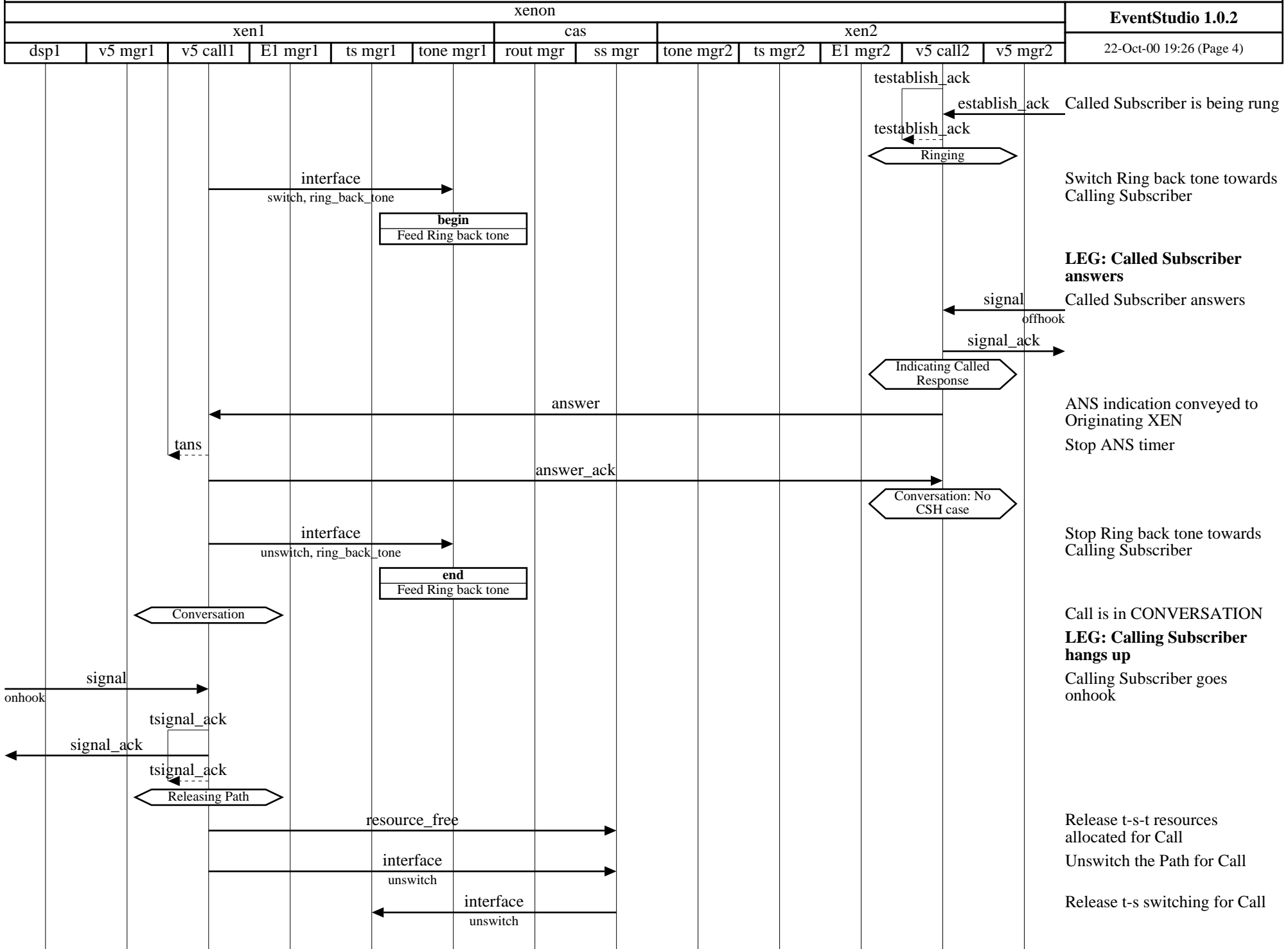
**LEG: Routing is successful**  
 Call to be terminated in this exchange detected; EntityID for Called DN determined

Resource Response containing t-s-t resources for Call received  
 Switch the Path for Call

**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: Successful call)**



**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: Successful call)**



Called Subscriber is being rung

Switch Ring back tone towards Calling Subscriber

**LEG: Called Subscriber answers**

Called Subscriber answers

offhook

signal\_ack

ANS indication conveyed to Originating XEN

Stop ANS timer

Stop Ring back tone towards Calling Subscriber

Call is in CONVERSATION

**LEG: Calling Subscriber hangs up**

Calling Subscriber goes onhook

Release t-s-t resources allocated for Call

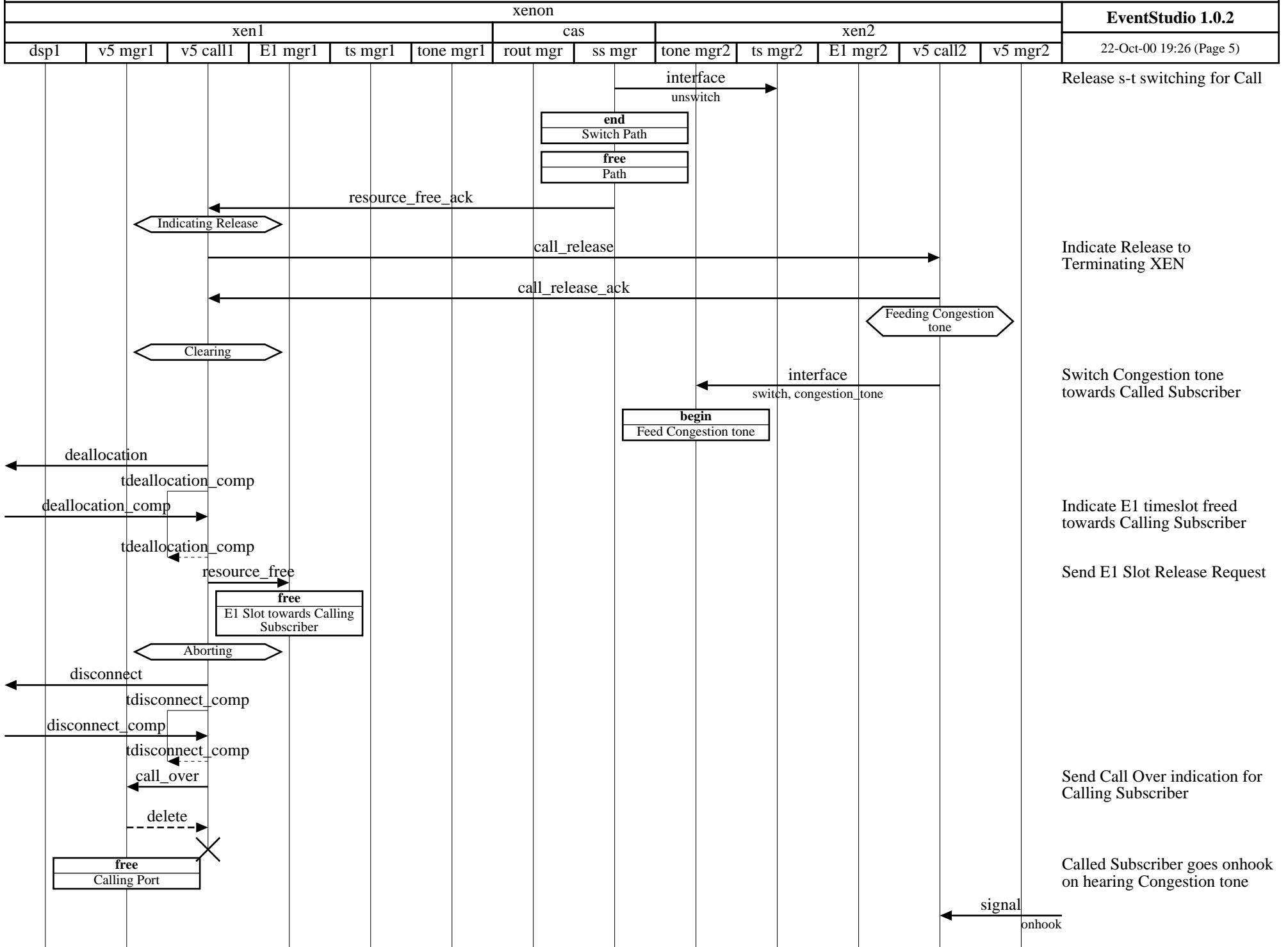
Unswitch the Path for Call

Release t-s switching for Call

**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: Successful call)**

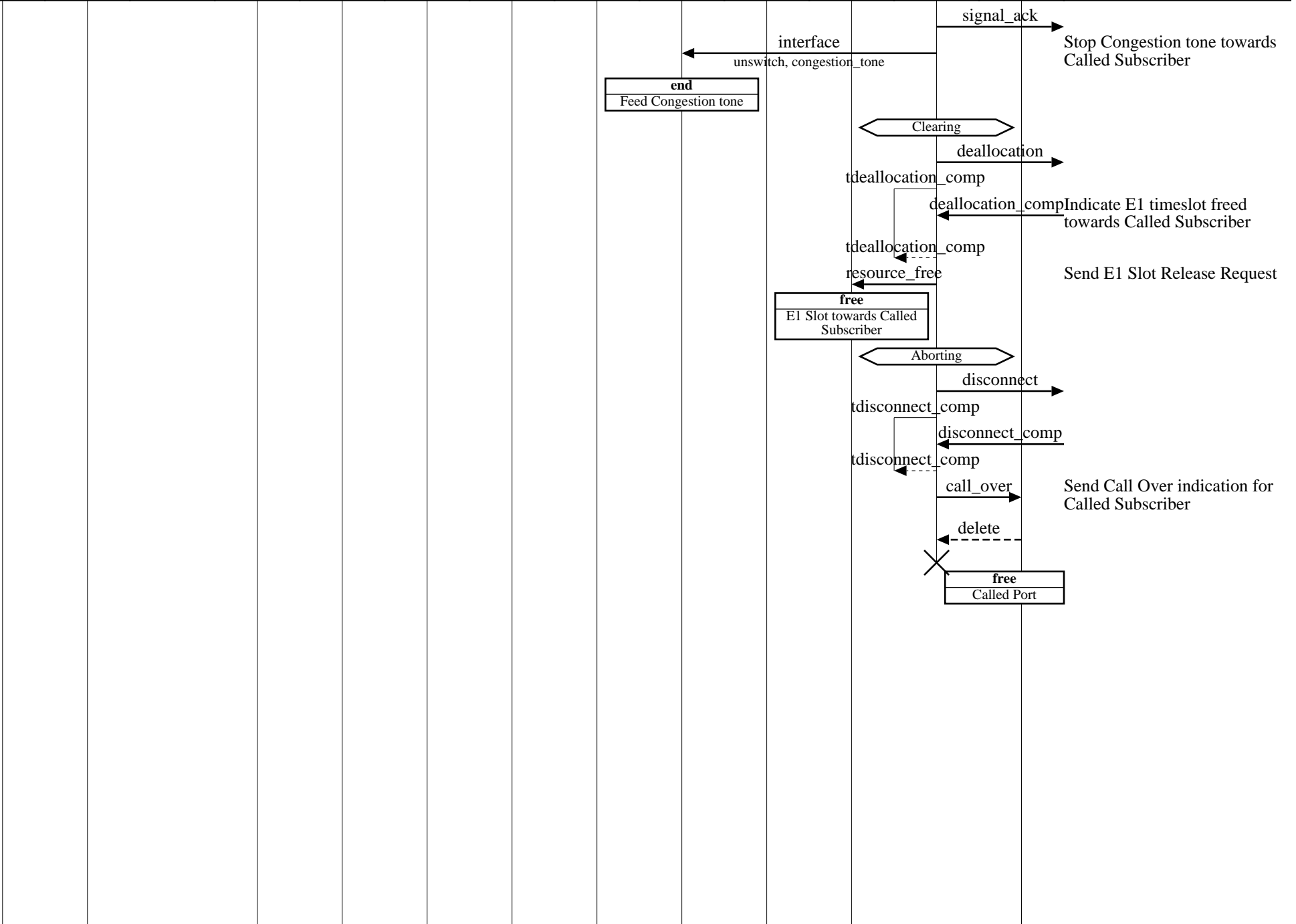
**EventStudio 1.0.2**

22-Oct-00 19:26 (Page 5)



**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: Successful call)**

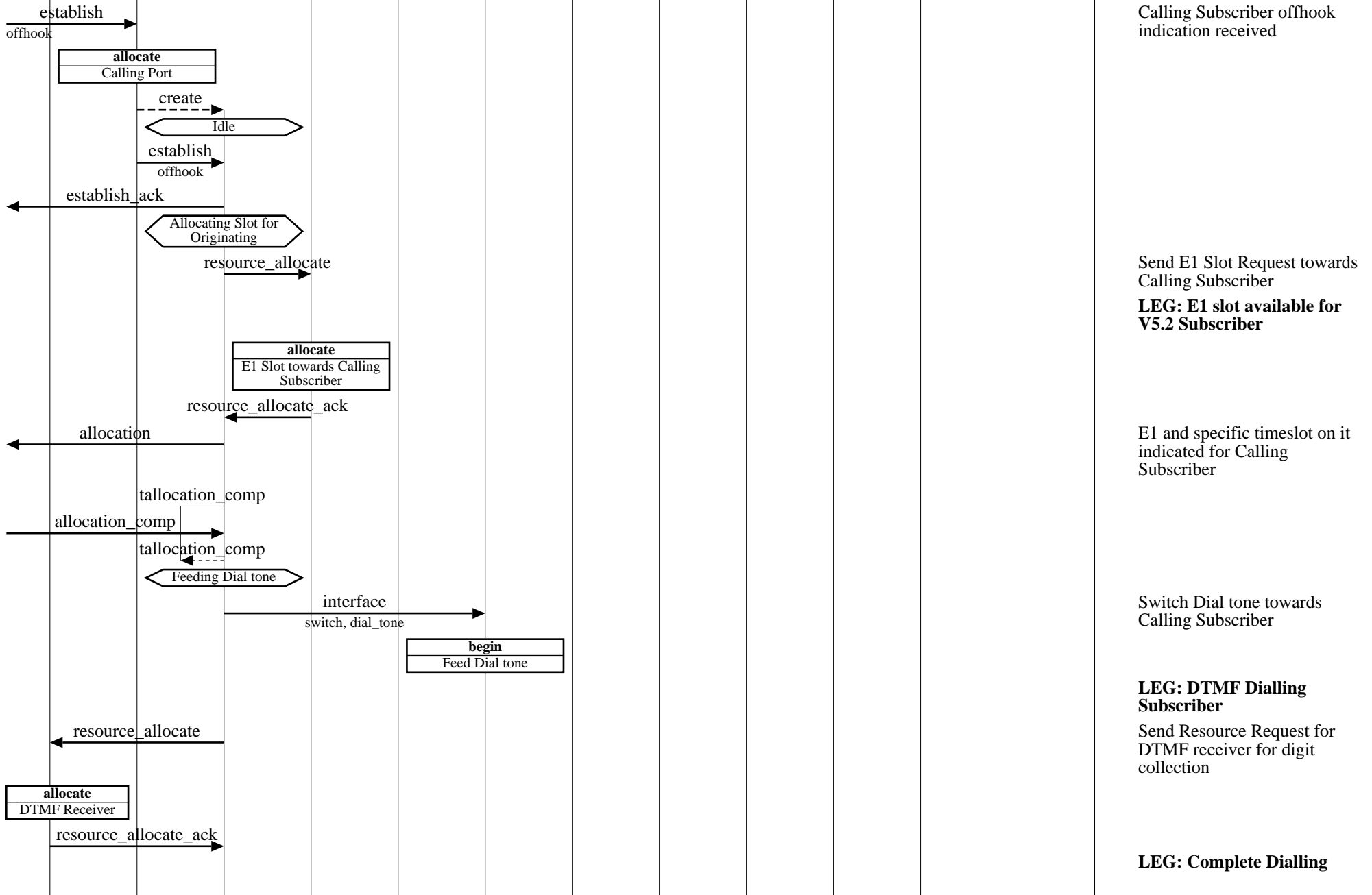
xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 6)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas			xen2				22-Oct-00 19:26 (Page 7)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	

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Calling Subscriber offhook indication received

Send E1 Slot Request towards Calling Subscriber  
**LEG: E1 slot available for V5.2 Subscriber**

E1 and specific timeslot on it indicated for Calling Subscriber

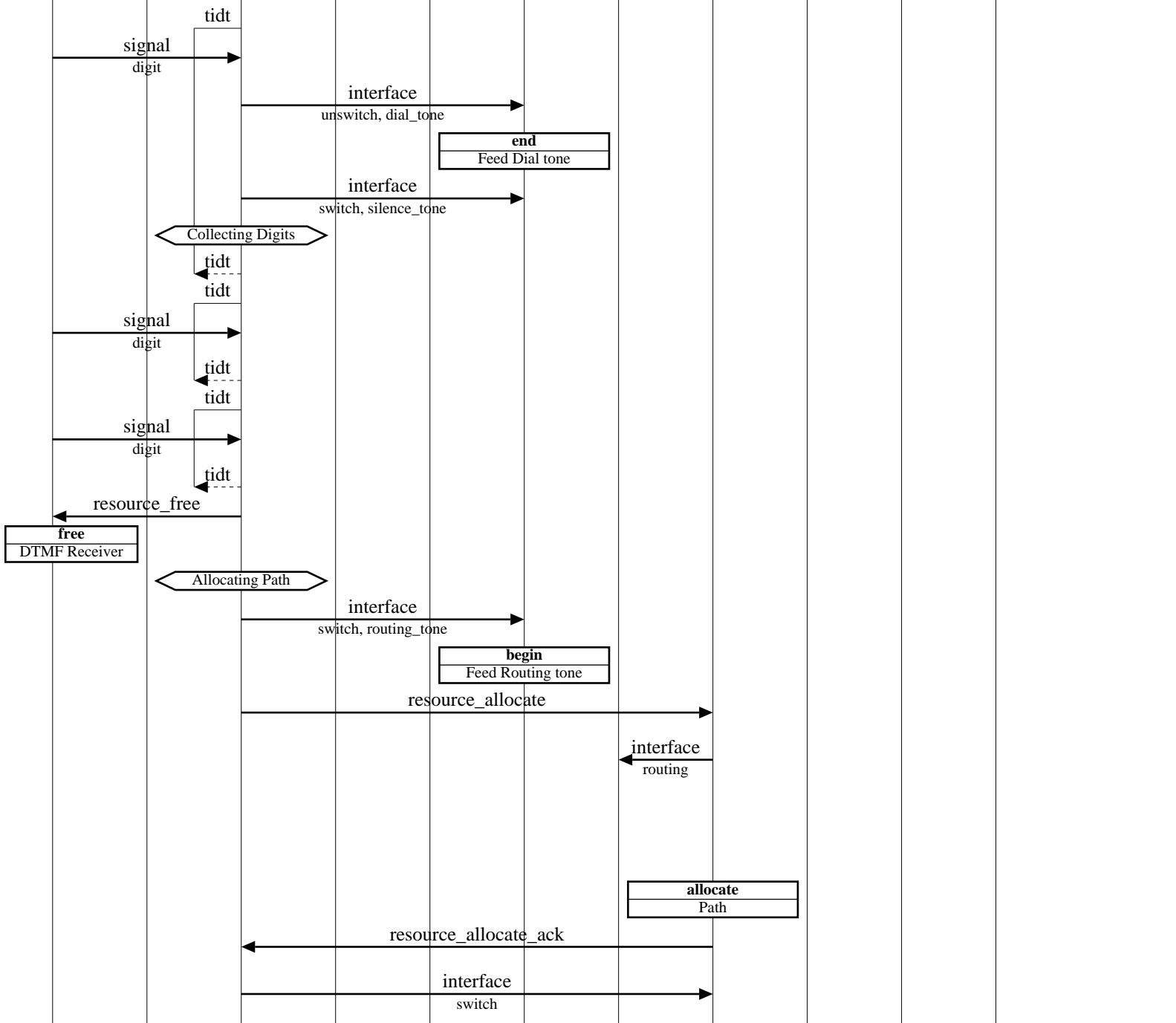
Switch Dial tone towards Calling Subscriber

**LEG: DTMF Dialing Subscriber**  
 Send Resource Request for DTMF receiver for digit collection

**LEG: Complete Dialling**

**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 8)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Start IDT timer  
 DTMF digit dialled by Calling Subscriber received  
 Stop Dial tone towards Calling Subscriber

Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received  
 End of dialling detected  
 Release the DTMF receiver

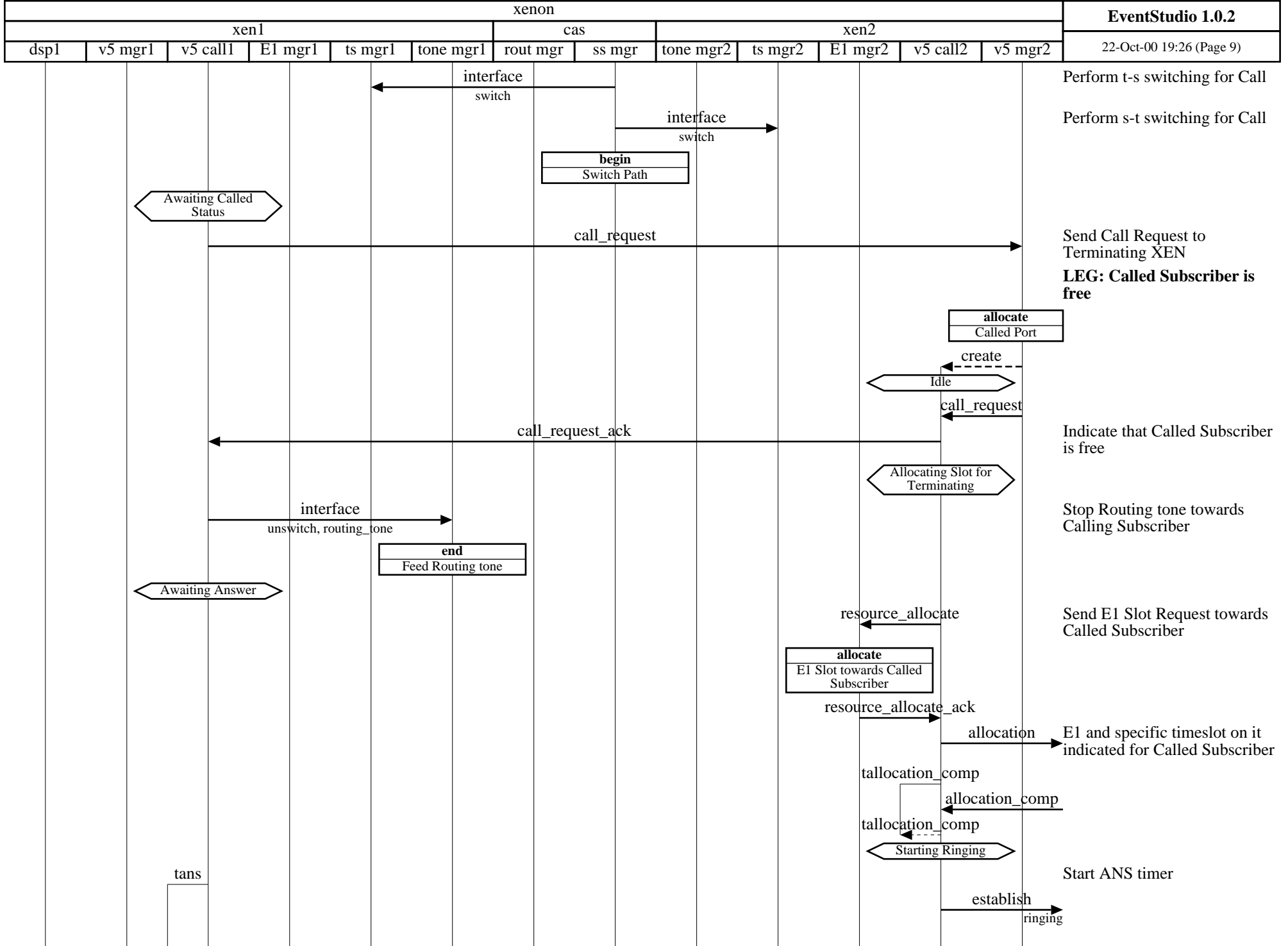
Switch Routing tone towards Calling Subscriber

Send Resource Request for space slot  
 Call Routing being performed

**LEG: Routing is successful**  
 Call to be terminated in this exchange detected; EntityID for Called DN determined

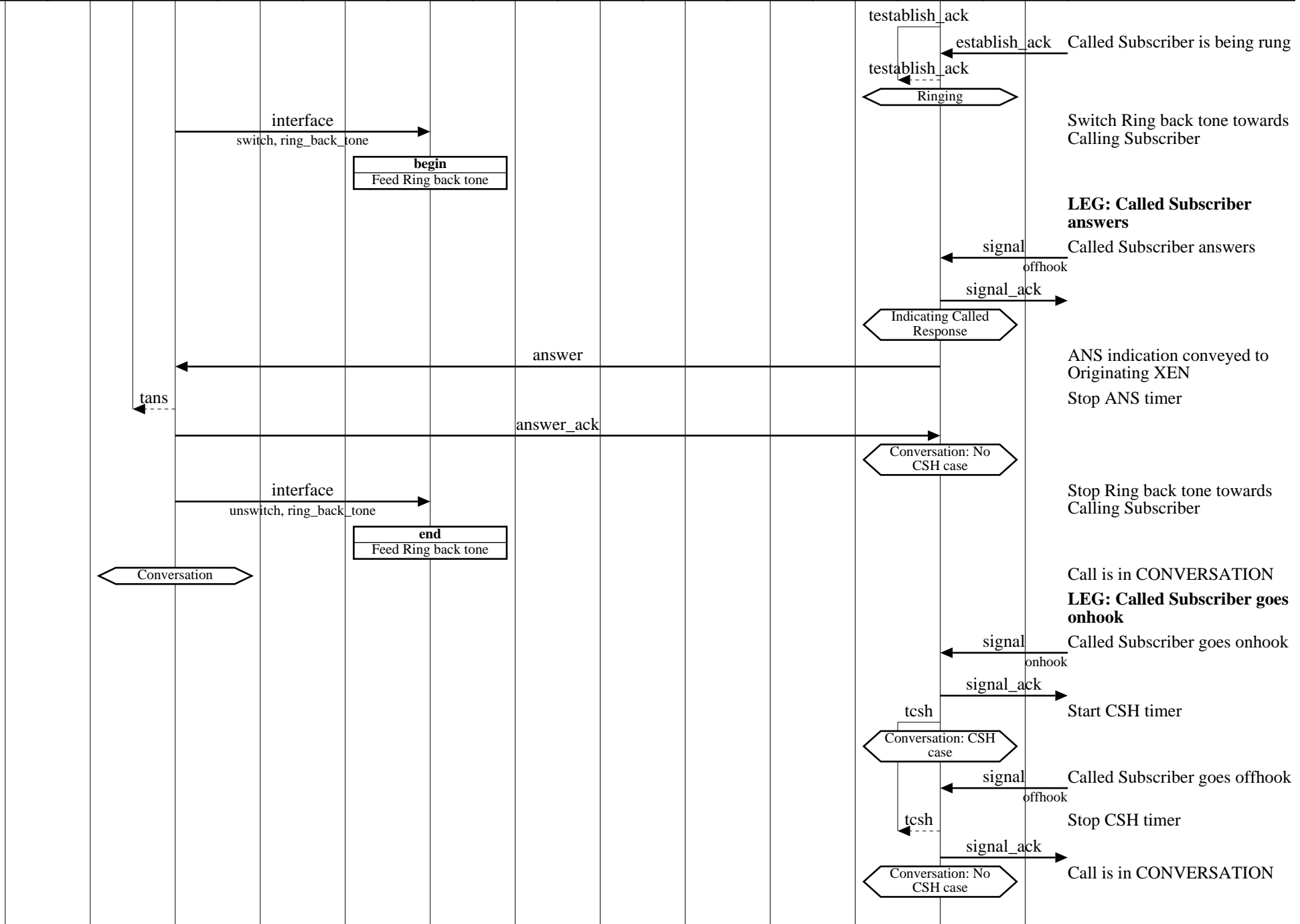
Resource Response containing t-s-t resources for Call received  
 Switch the Path for Call

Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)

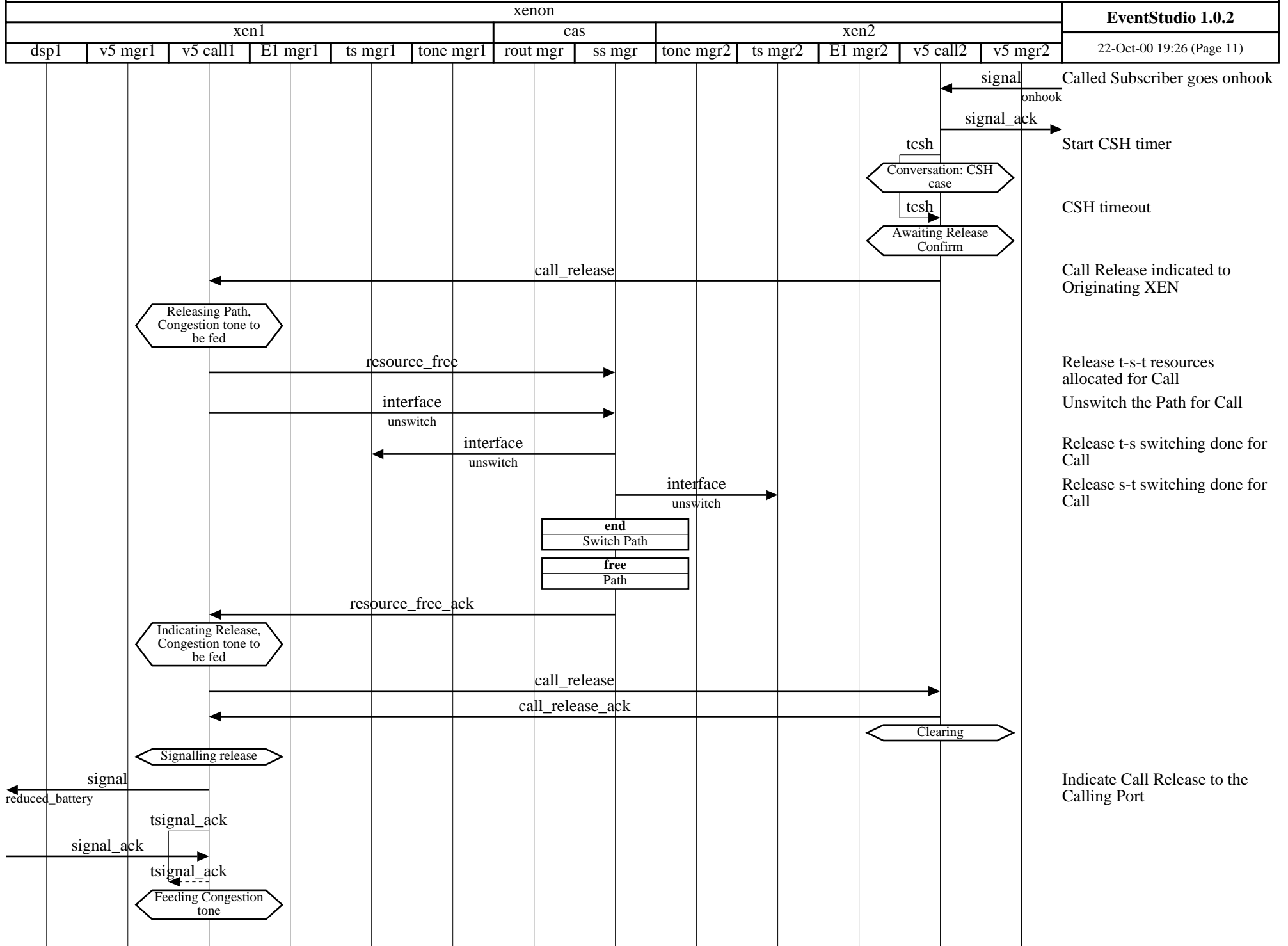


Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)

xenon													EventStudio 1.0.2
xen1						cas		xen2					22-Oct-00 19:26 (Page 10)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	

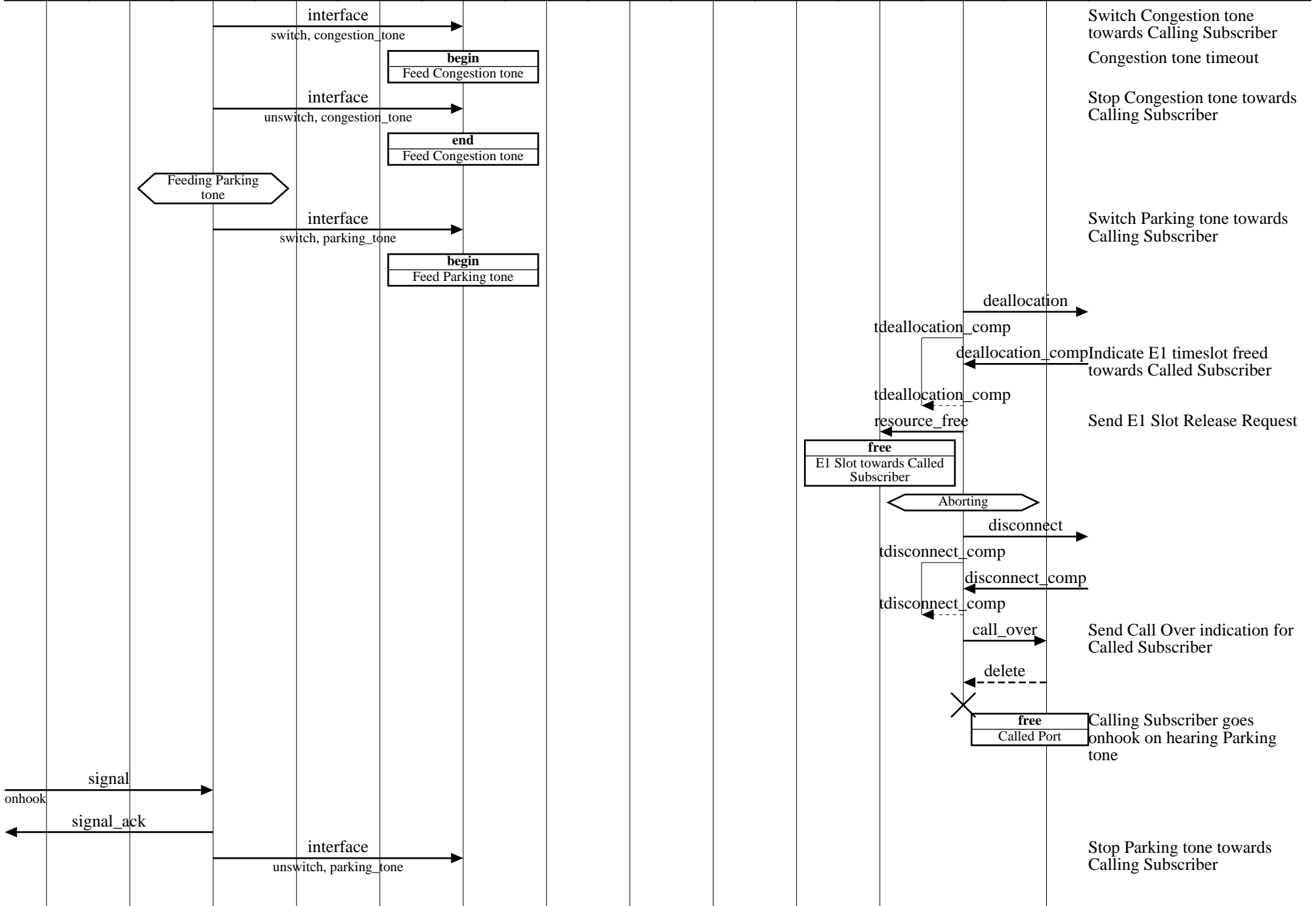


**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)**



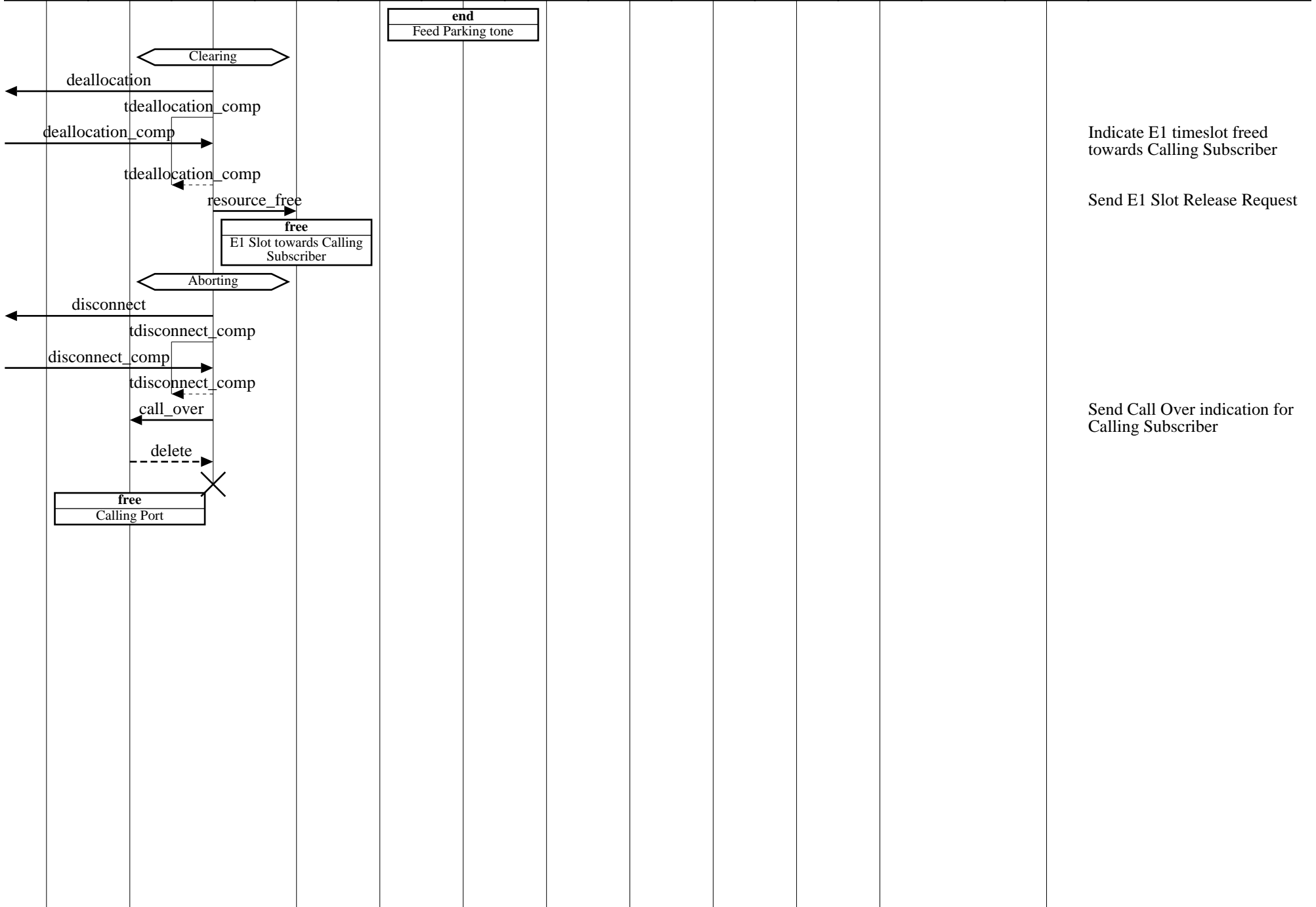
**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 12)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



**Xenon switch V5.2 Line to Line Call (V5.2 - V5.2: CSH timeout)**

xenon												<b>EventStudio 1.0.2</b>
xen1						cas		xen2				22-Oct-00 19:26 (Page 13)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2



Indicate E1 timeslot freed towards Calling Subscriber

Send E1 Slot Release Request

Send Call Over indication for Calling Subscriber

**Xenon switch V5.2 Line to Line Call (V5.2: E1 slot not available)**

xenon

**EventStudio 1.0.2**

xen1

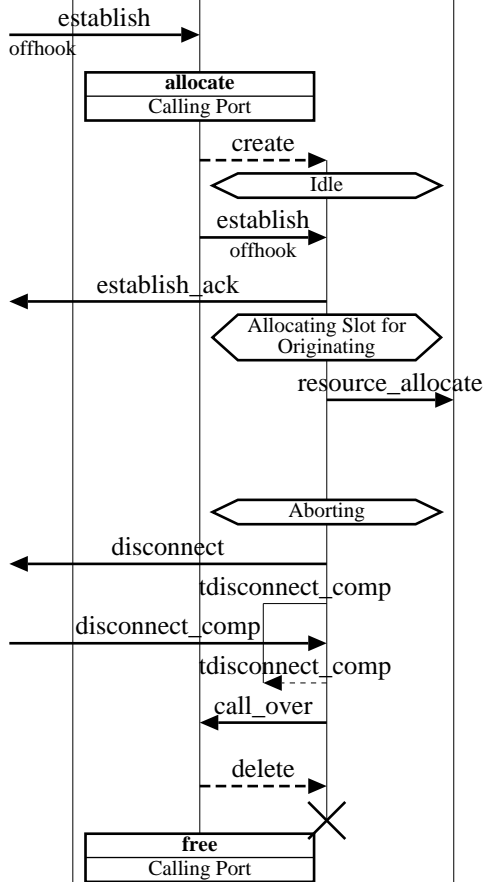
cas

xen2

dsp1 | v5 mgr1 | v5 call1 | E1 mgr1 | ts mgr1 | tone mgr1 | rout mgr | ss mgr | tone mgr2 | ts mgr2 | E1 mgr2 | v5 call2 | v5 mgr2

22-Oct-00 19:26 (Page 14)

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Calling Subscriber offhook indication received

Send E1 Slot Request towards Calling Subscriber

**LEG: E1 slot not available for V5.2 Subscriber**

Call failure indicated in V5.2

Send Call Over indication for Calling Subscriber

**Xenon switch V5.2 Line to Line Call (V5.2: Partial dialling)**

xenon

**EventStudio 1.0.2**

xen1

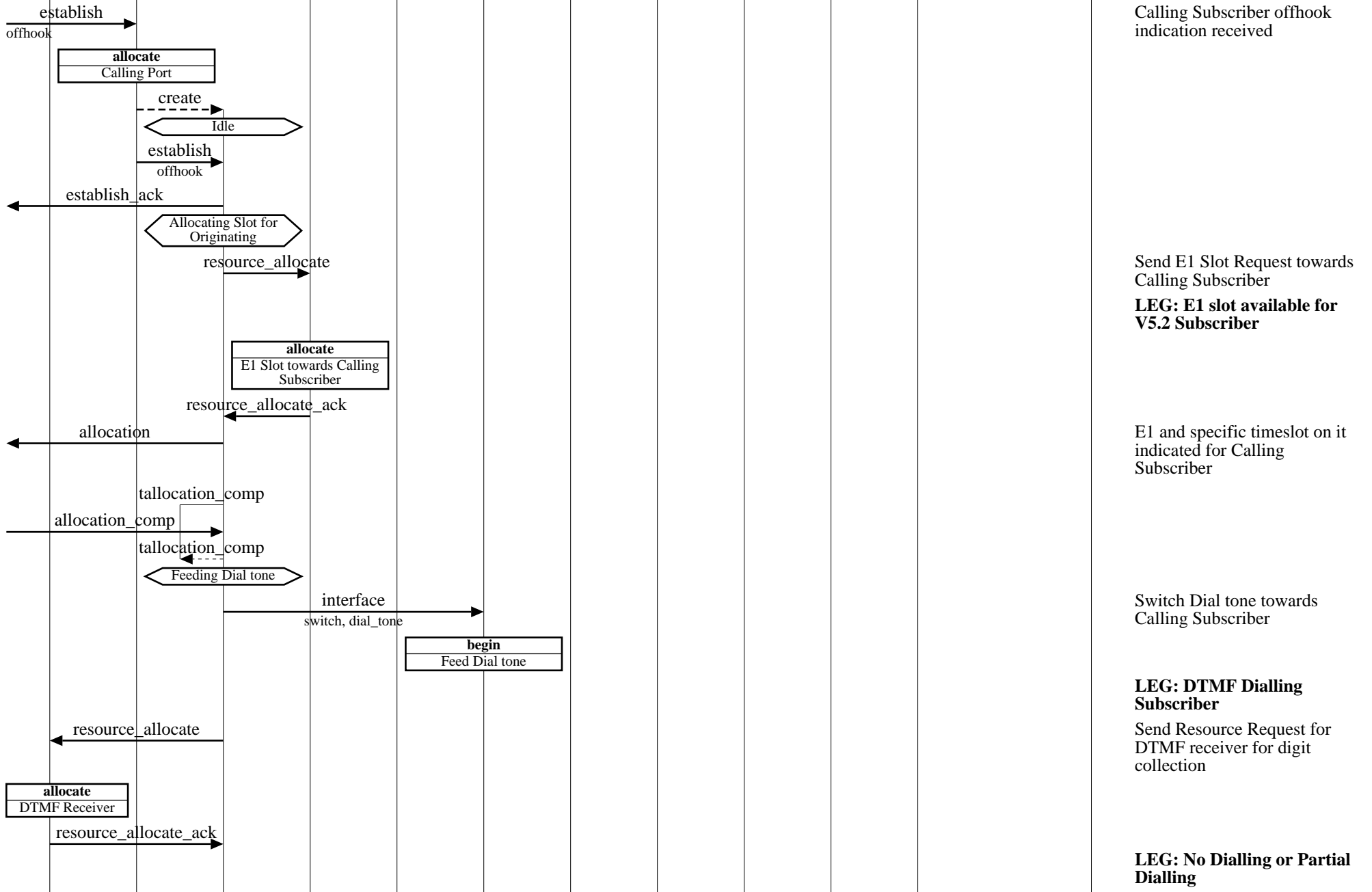
cas

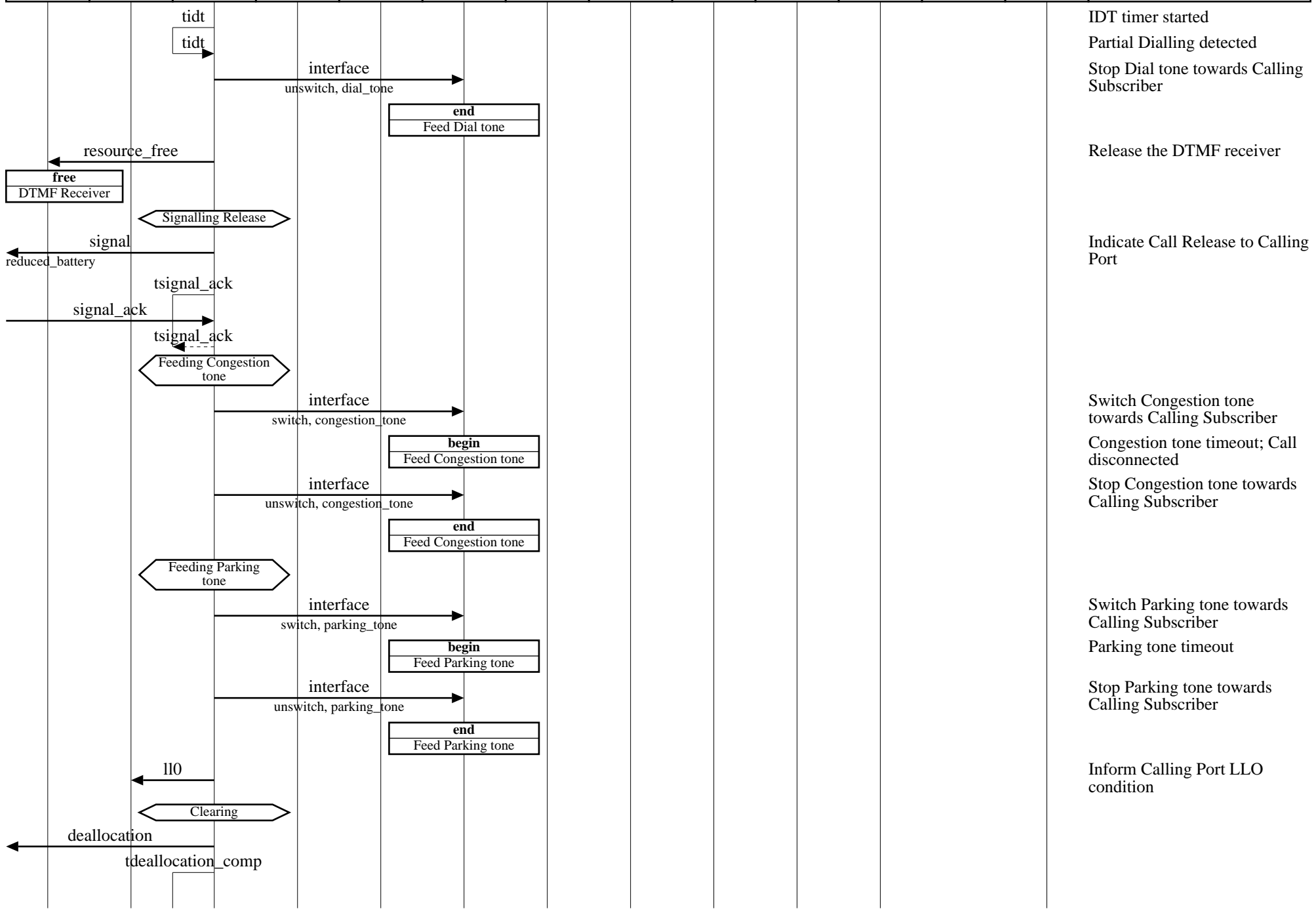
xen2

dsp1 | v5 mgr1 | v5 call1 | E1 mgr1 | ts mgr1 | tone mgr1 | rout mgr | ss mgr | tone mgr2 | ts mgr2 | E1 mgr2 | v5 call2 | v5 mgr2

22-Oct-00 19:26 (Page 15)

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IDT timer started  
 Partial Dialling detected  
 Stop Dial tone towards Calling Subscriber

Release the DTMF receiver

Indicate Call Release to Calling Port

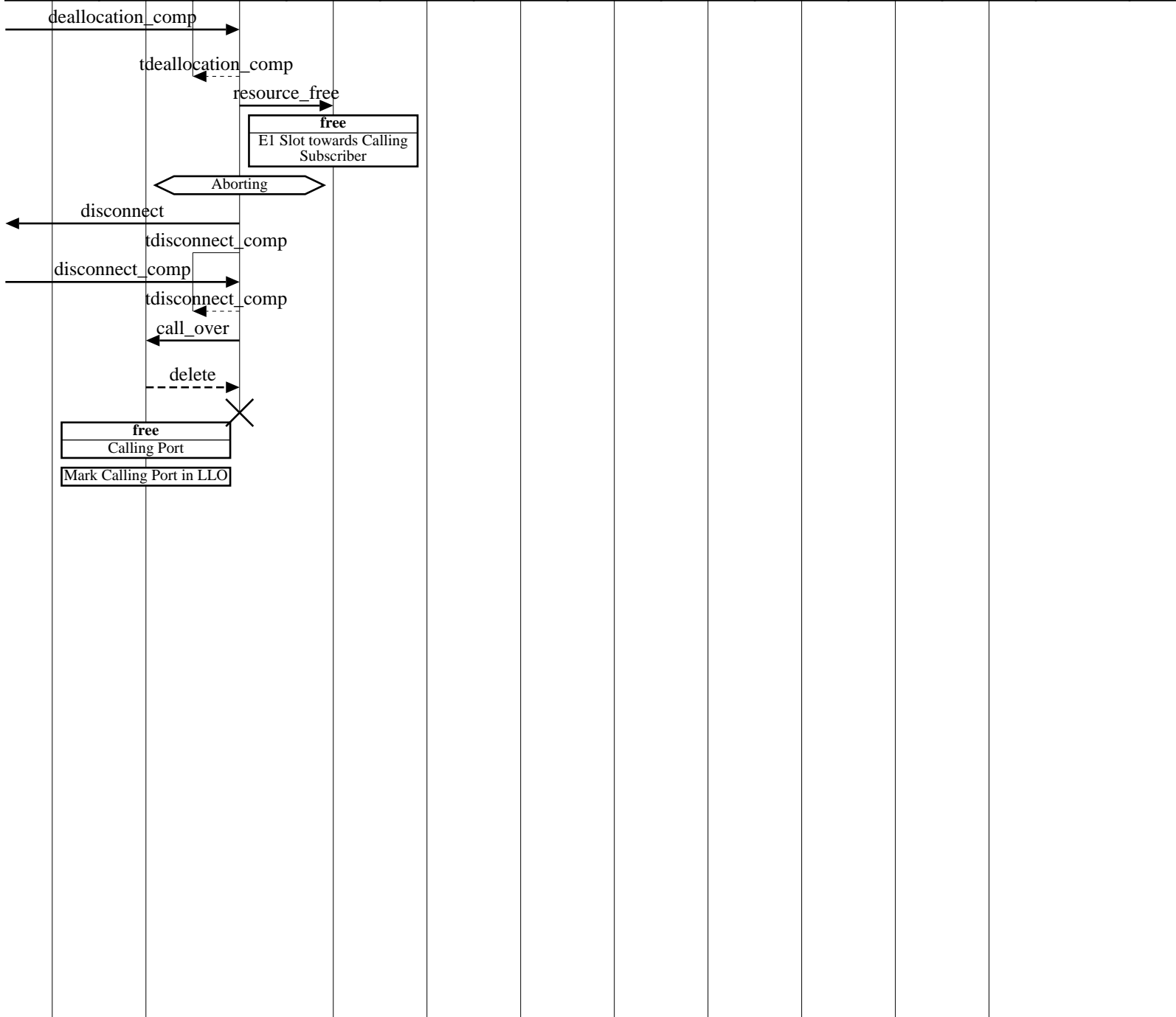
Switch Congestion tone towards Calling Subscriber  
 Congestion tone timeout; Call disconnected  
 Stop Congestion tone towards Calling Subscriber

Switch Parking tone towards Calling Subscriber  
 Parking tone timeout  
 Stop Parking tone towards Calling Subscriber

Inform Calling Port LLO condition

**Xenon switch V5.2 Line to Line Call (V5.2: Partial dialling)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 17)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Indicate E1 timeslot freed towards Calling Subscriber

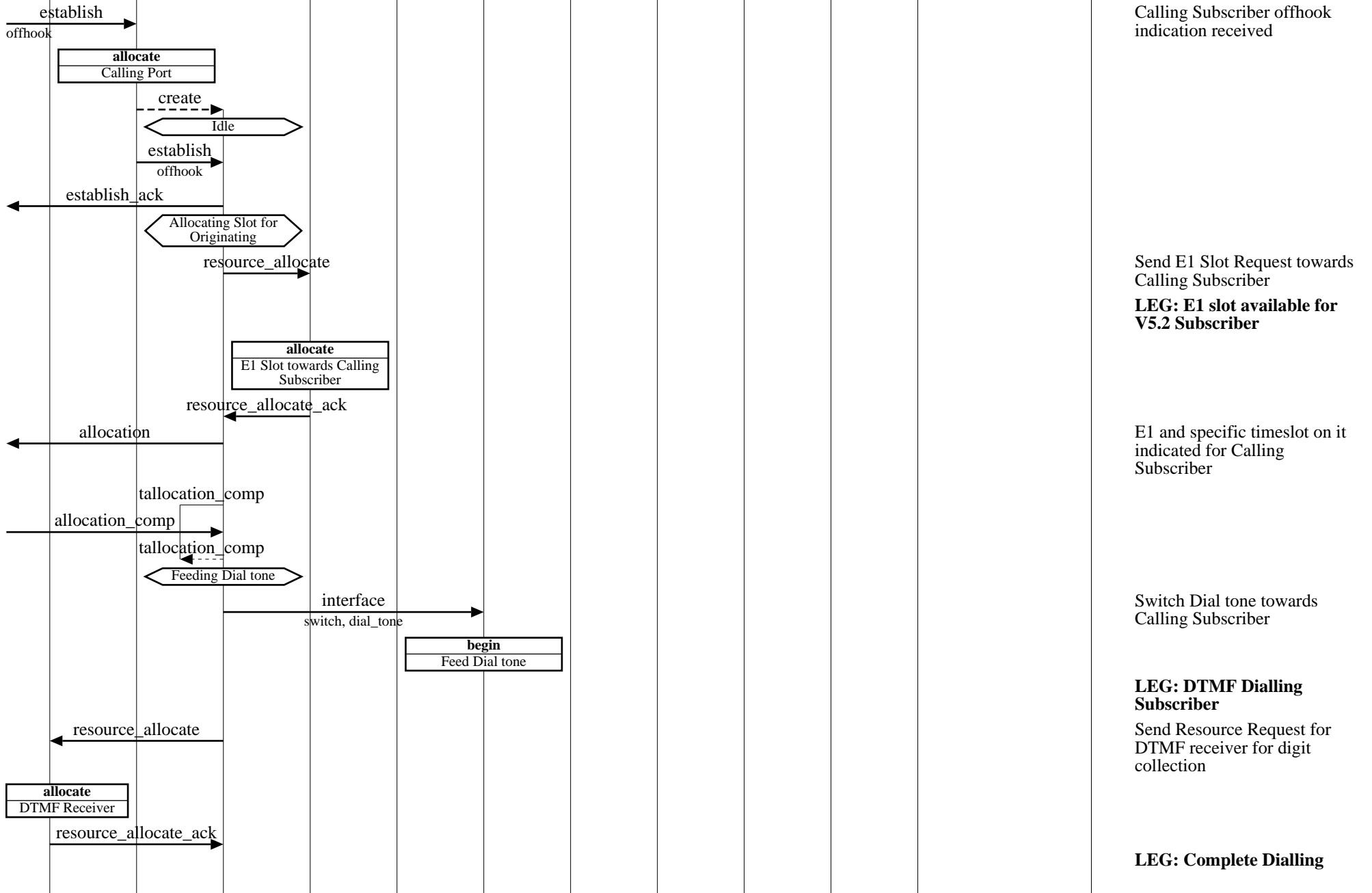
Send E1 Slot Release Request

Send Call Over indication for Calling Subscriber

**Xenon switch V5.2 Line to Line Call (V5.2: Directory number unknown)**

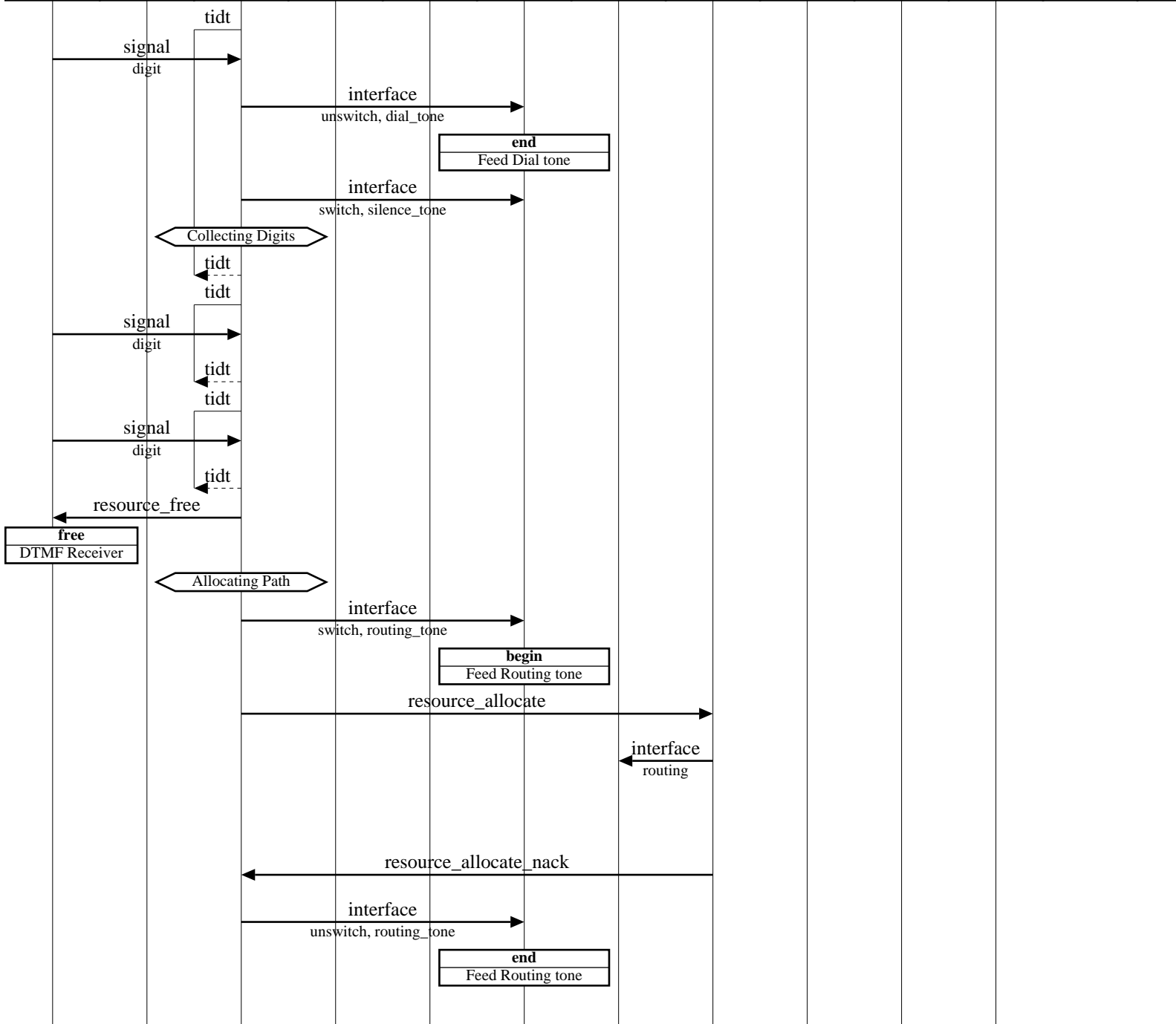
xenon													<b>EventStudio 1.0.2</b>
xen1						cas			xen2				22-Oct-00 19:26 (Page 18)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	

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**Xenon switch V5.2 Line to Line Call (V5.2: Directory number unknown)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 19)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Start IDT timer  
 DTMF digit dialled by Calling Subscriber received  
 Stop Dial tone towards Calling Subscriber

Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received  
 End of dialling detected  
 Release the DTMF receiver

Switch Routing tone towards Calling Subscriber

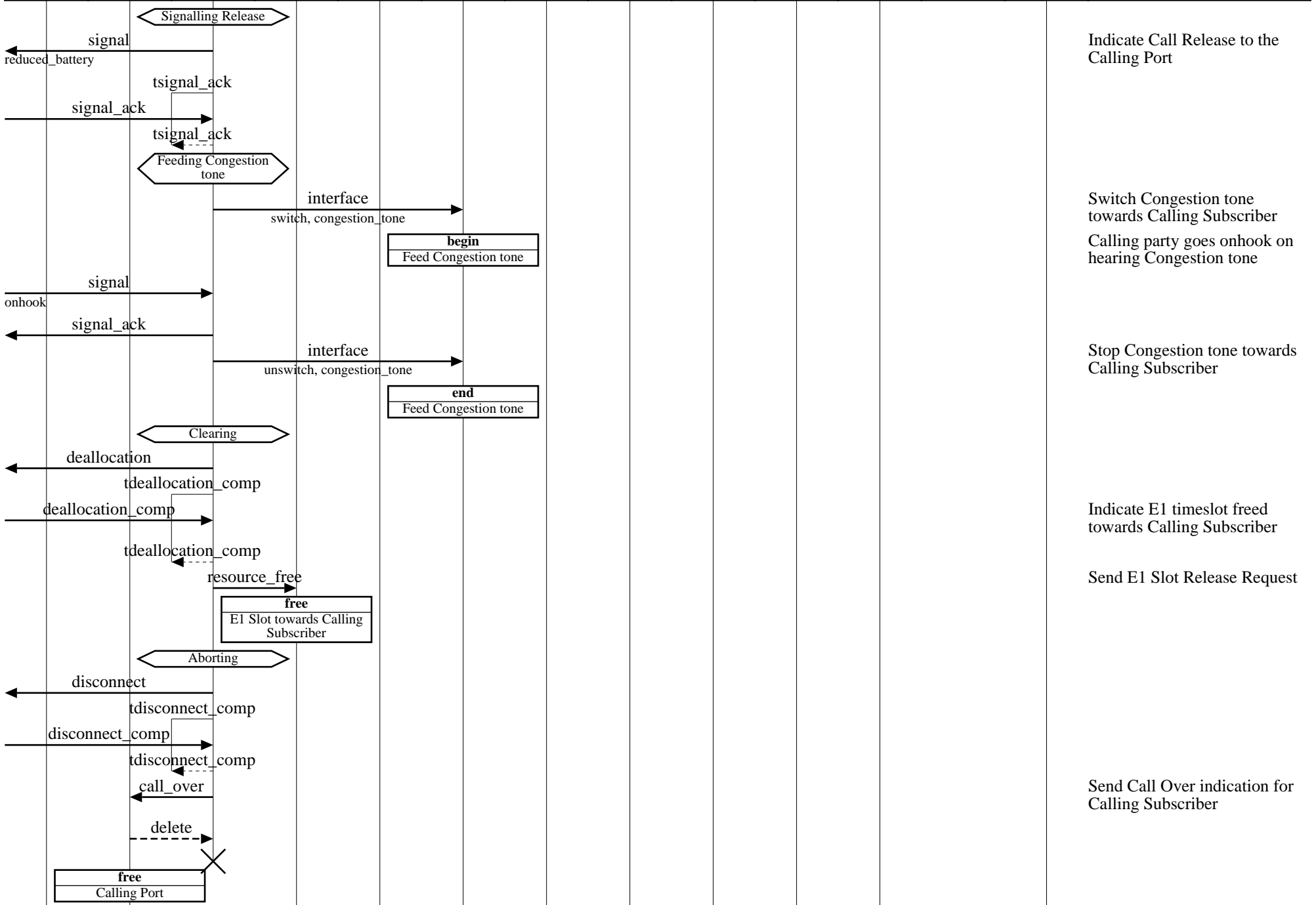
Send Resource Request for space slot  
 Call Routing being performed

**LEG: Call failed: DN unknown or All trunks to the Route are busy**

Indicate Routing Failure condition or Trunk Congestion  
 Stop Routing tone towards Calling Subscriber

**Xenon switch V5.2 Line to Line Call (V5.2: Directory number unknown)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 20)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Indicate Call Release to the Calling Port

Switch Congestion tone towards Calling Subscriber  
 Calling party goes onhook on hearing Congestion tone

Stop Congestion tone towards Calling Subscriber

Indicate E1 timeslot freed towards Calling Subscriber

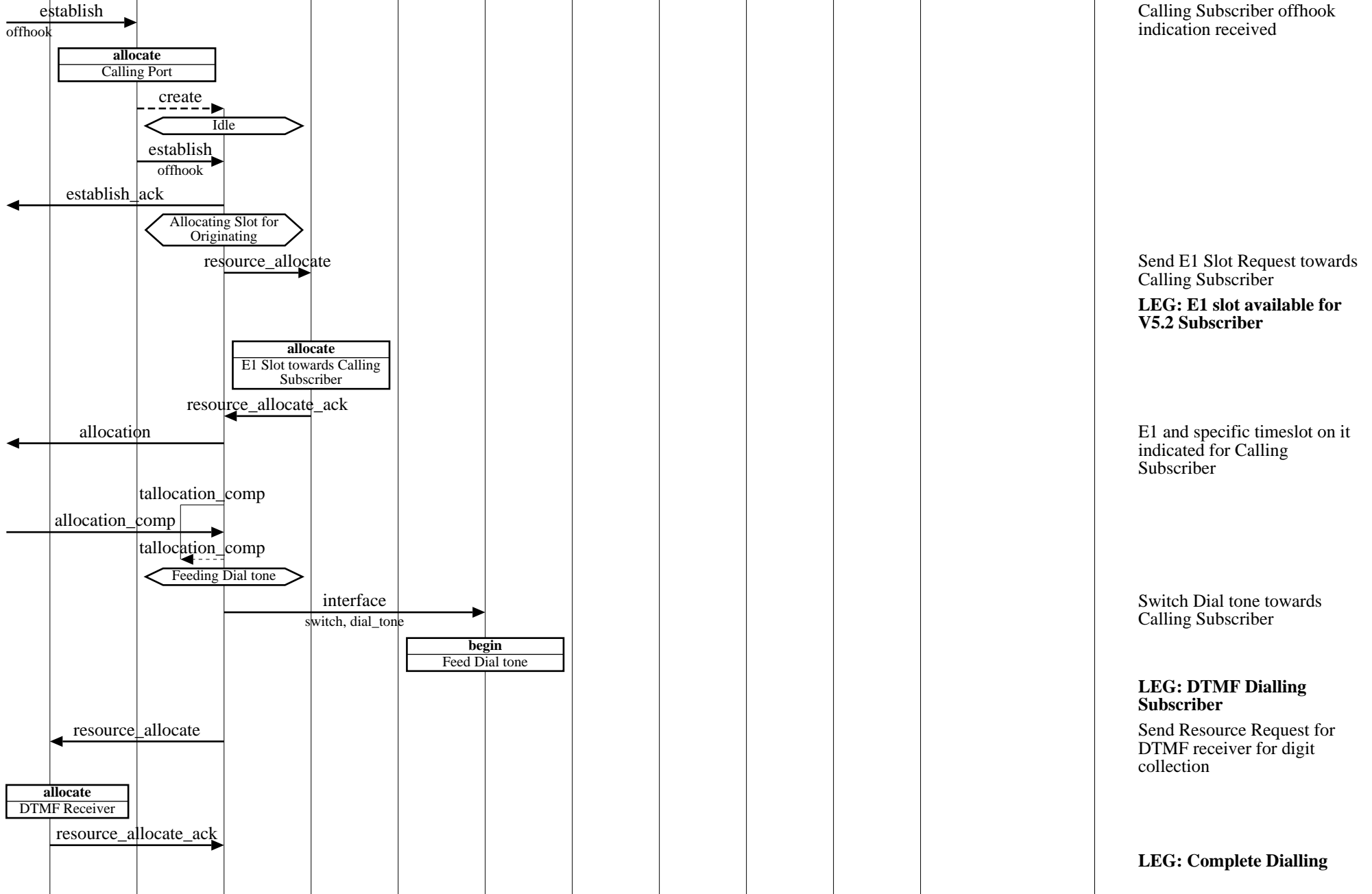
Send E1 Slot Release Request

Send Call Over indication for Calling Subscriber

**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber is busy)**

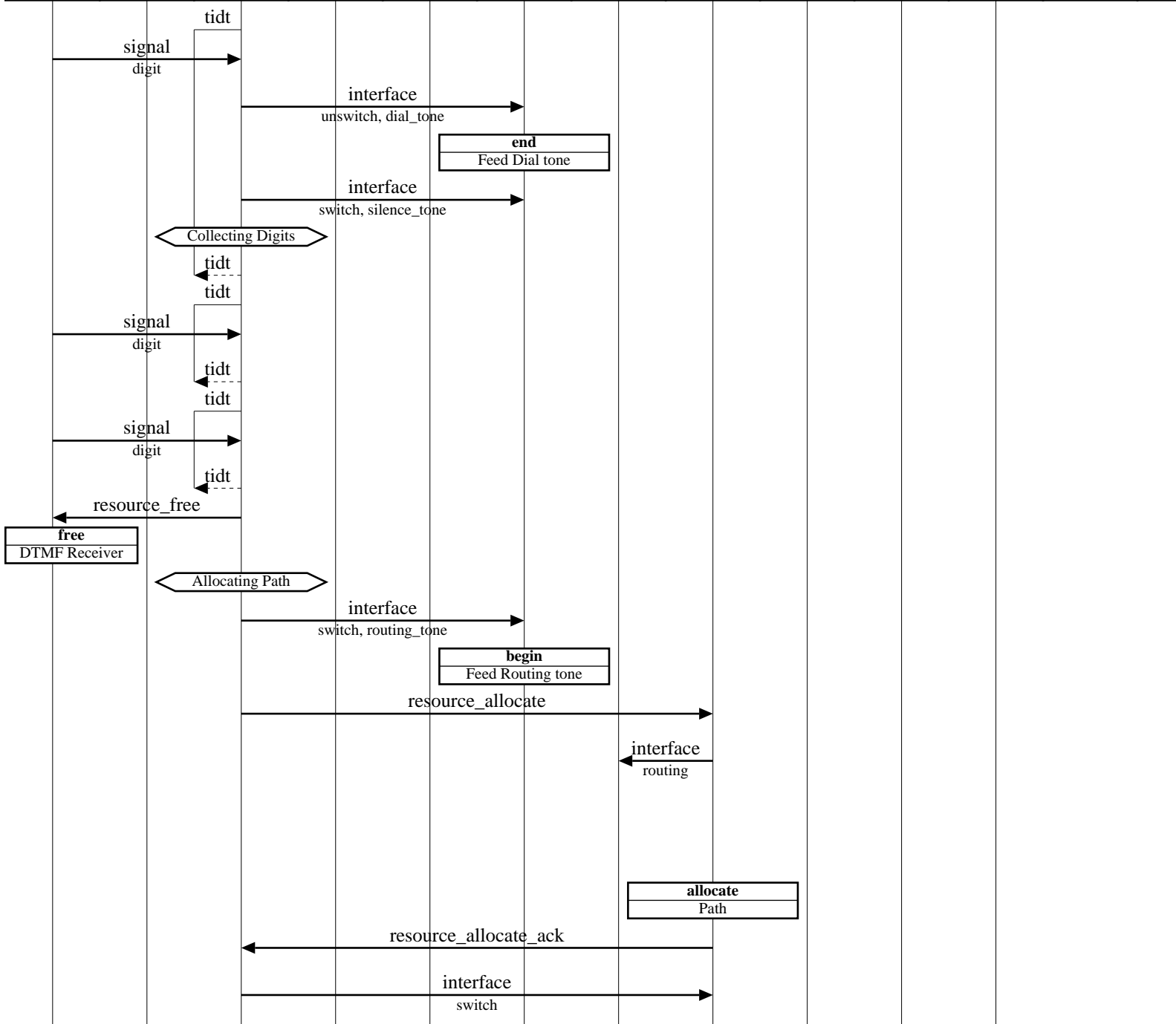
xenon													<b>EventStudio 1.0.2</b>
xen1						cas			xen2				22-Oct-00 19:26 (Page 21)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	

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**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber is busy)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 22)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Start IDT timer  
 DTMF digit dialled by Calling Subscriber received  
 Stop Dial tone towards Calling Subscriber

Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received  
 End of dialling detected  
 Release the DTMF receiver

Switch Routing tone towards Calling Subscriber

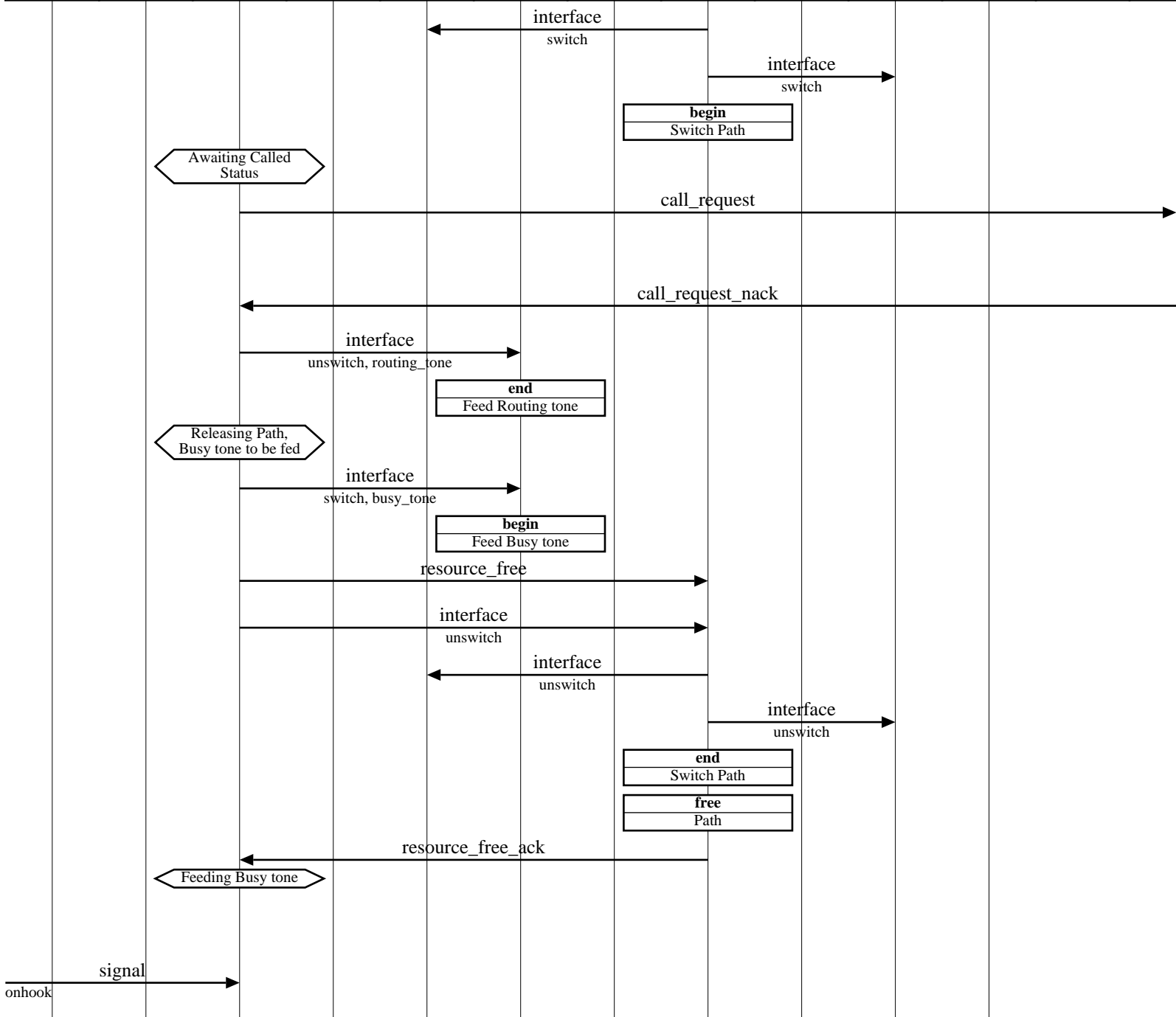
Send Resource Request for space slot  
 Call Routing being performed

**LEG: Routing is successful**  
 Call to be terminated in this exchange detected; EntityID for Called DN determined

Resource Response containing t-s-t resources for Call received  
 Switch the Path for Call

**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber is busy)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas			xen2				22-Oct-00 19:26 (Page 23)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Perform t-s switching for Call

Perform s-t switching for Call

Send Call Request to Terminating XEN

**LEG: Called Subscriber is busy**

Indicate that Called Subscriber is busy

Stop Routing tone towards Calling Subscriber

Switch Busy tone towards Calling Subscriber

Release the t-s-t resources allocated for Call

Unswitch the Path for Call

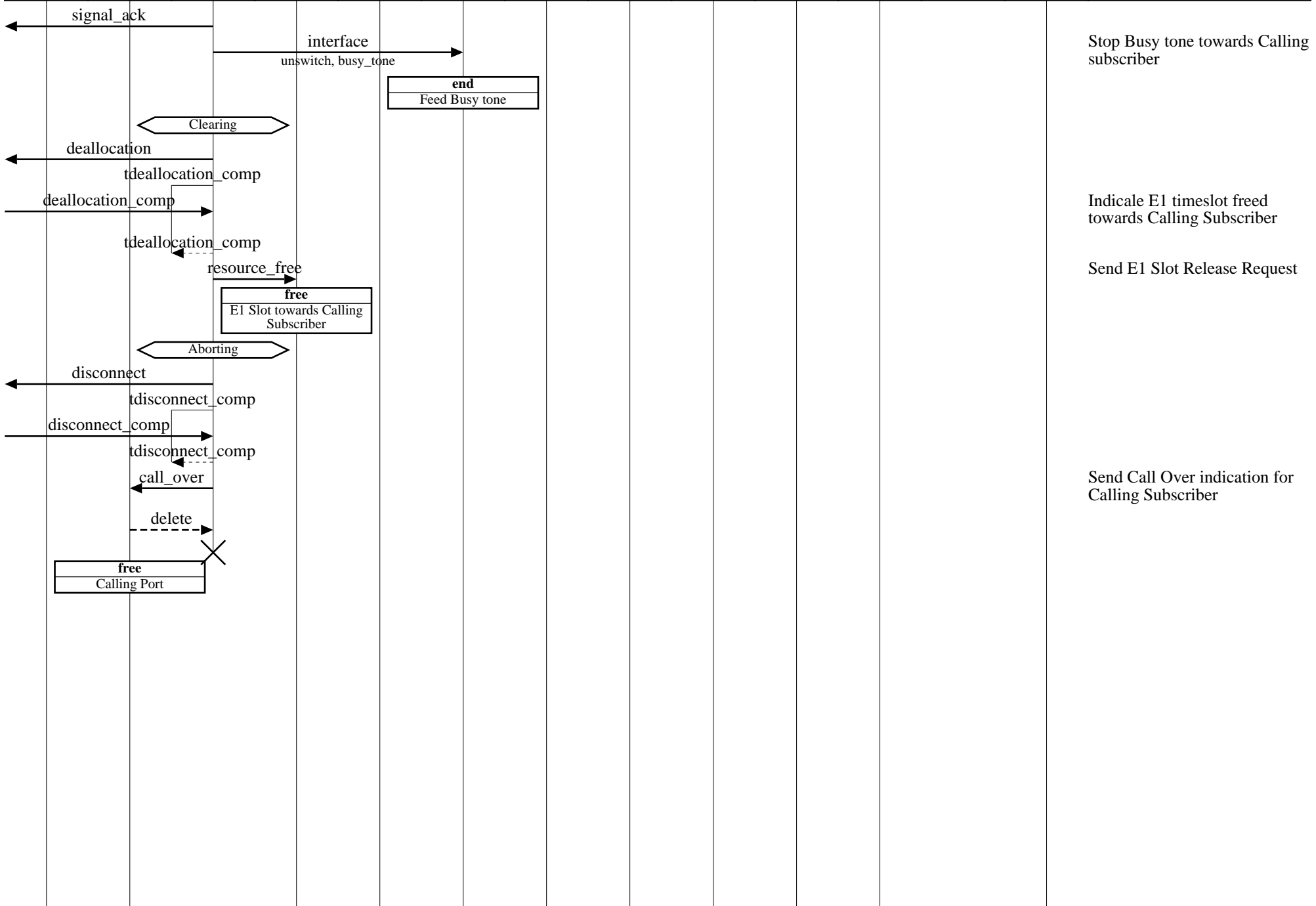
Release t-s switching for call

Release s-t switching for call

**LEG: Calling Subscriber goes onhook on hearing Busy tone**

**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber is busy)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 24)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Stop Busy tone towards Calling subscriber

Indicale E1 timeslot freed towards Calling Subscriber

Send E1 Slot Release Request

Send Call Over indication for Calling Subscriber

**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber does not answer)**

xenon

**EventStudio 1.0.2**

xen1

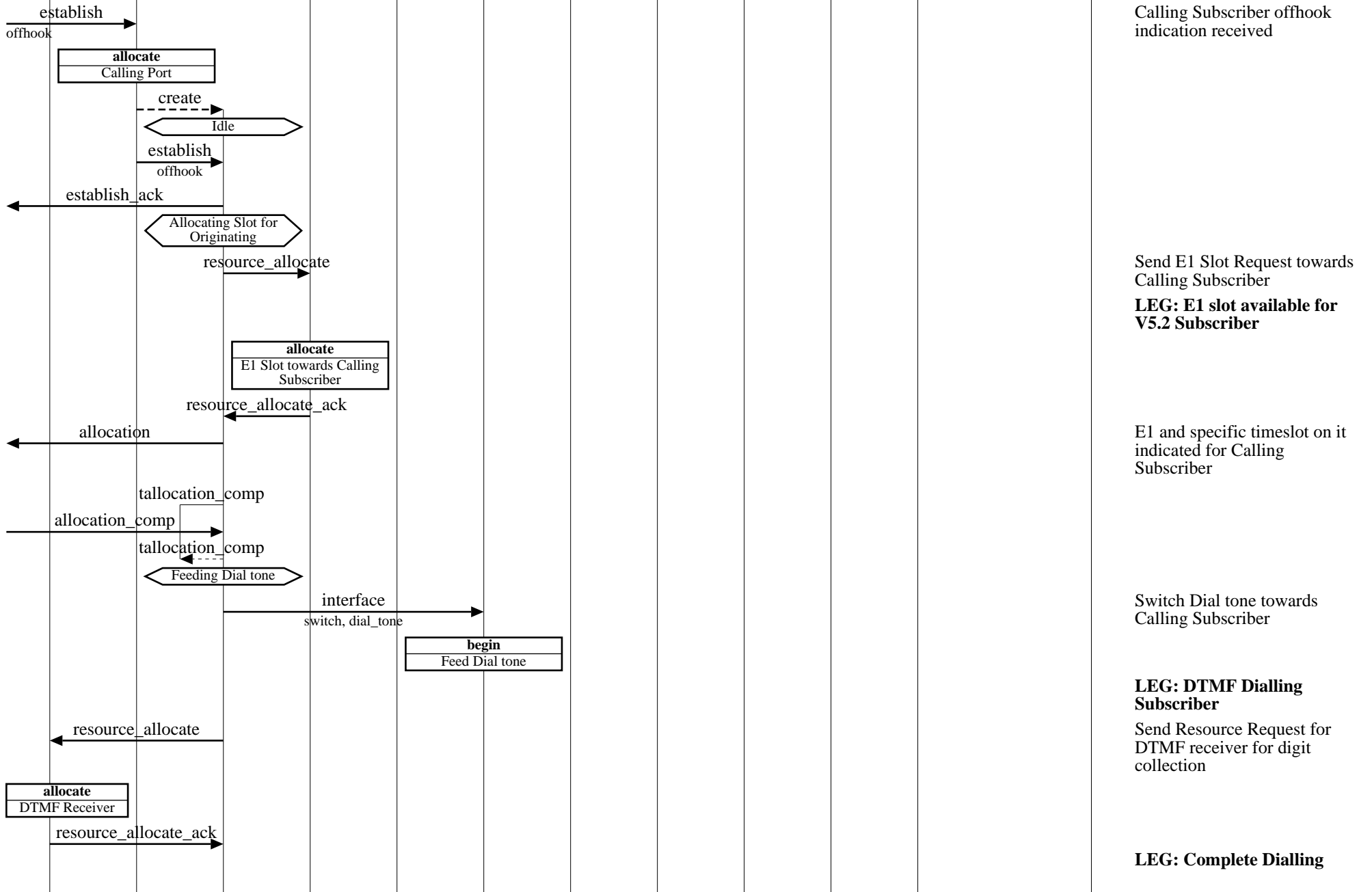
cas

xen2

dsp1 | v5 mgr1 | v5 call1 | E1 mgr1 | ts mgr1 | tone mgr1 | rout mgr | ss mgr | tone mgr2 | ts mgr2 | E1 mgr2 | v5 call2 | v5 mgr2

22-Oct-00 19:26 (Page 25)

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Calling Subscriber offhook indication received

Send E1 Slot Request towards Calling Subscriber  
**LEG: E1 slot available for V5.2 Subscriber**

E1 and specific timeslot on it indicated for Calling Subscriber

Switch Dial tone towards Calling Subscriber

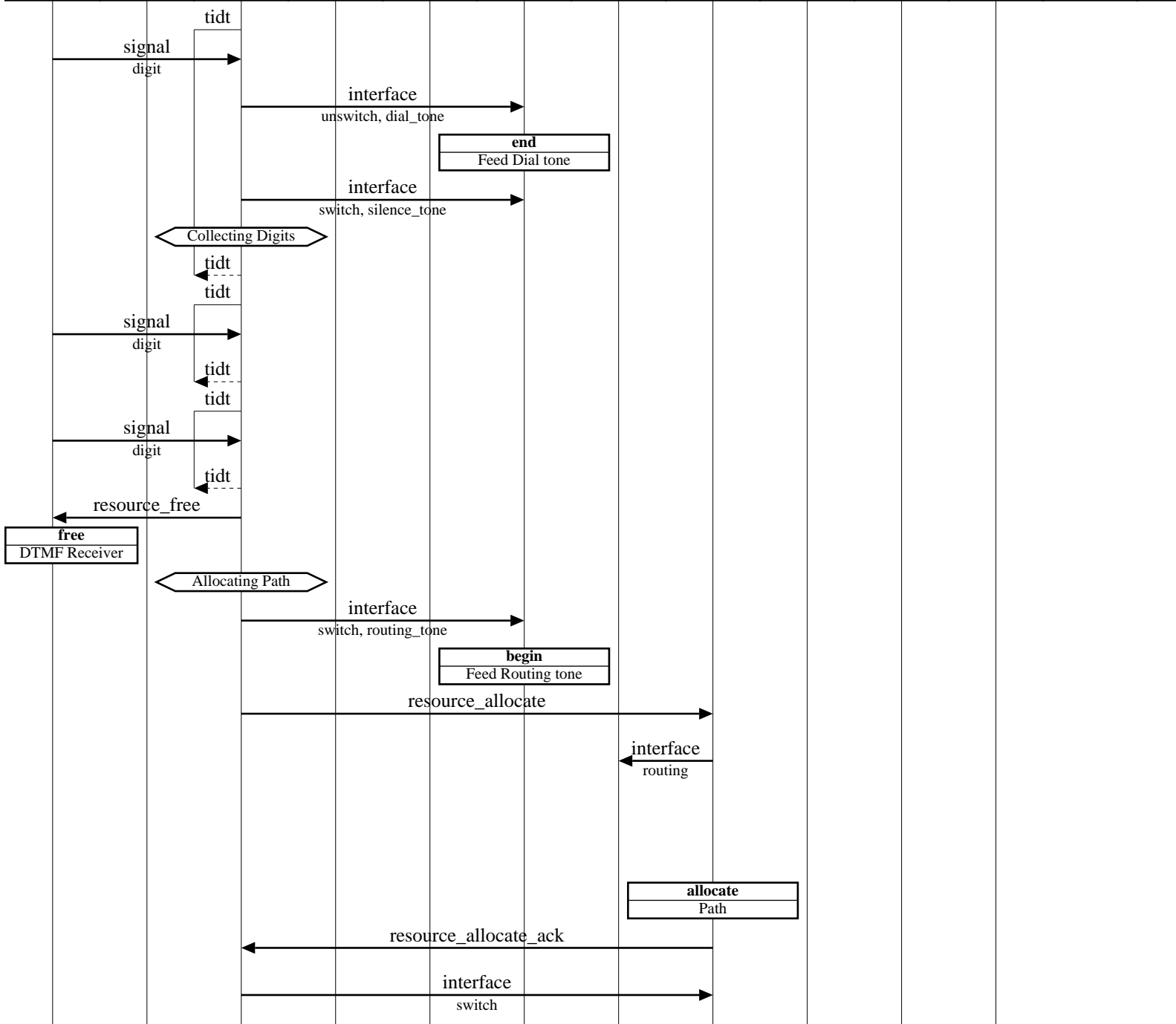
**LEG: DTMF Dialling Subscriber**

Send Resource Request for DTMF receiver for digit collection

**LEG: Complete Dialling**

**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber does not answer)**

xenon													<b>EventStudio 1.0.2</b>
xen1						cas		xen2					22-Oct-00 19:26 (Page 26)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	



Start IDT timer  
 DTMF digit dialled by Calling Subscriber received  
 Stop Dial tone towards Calling Subscriber

Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received  
 End of dialling detected  
 Release the DTMF receiver

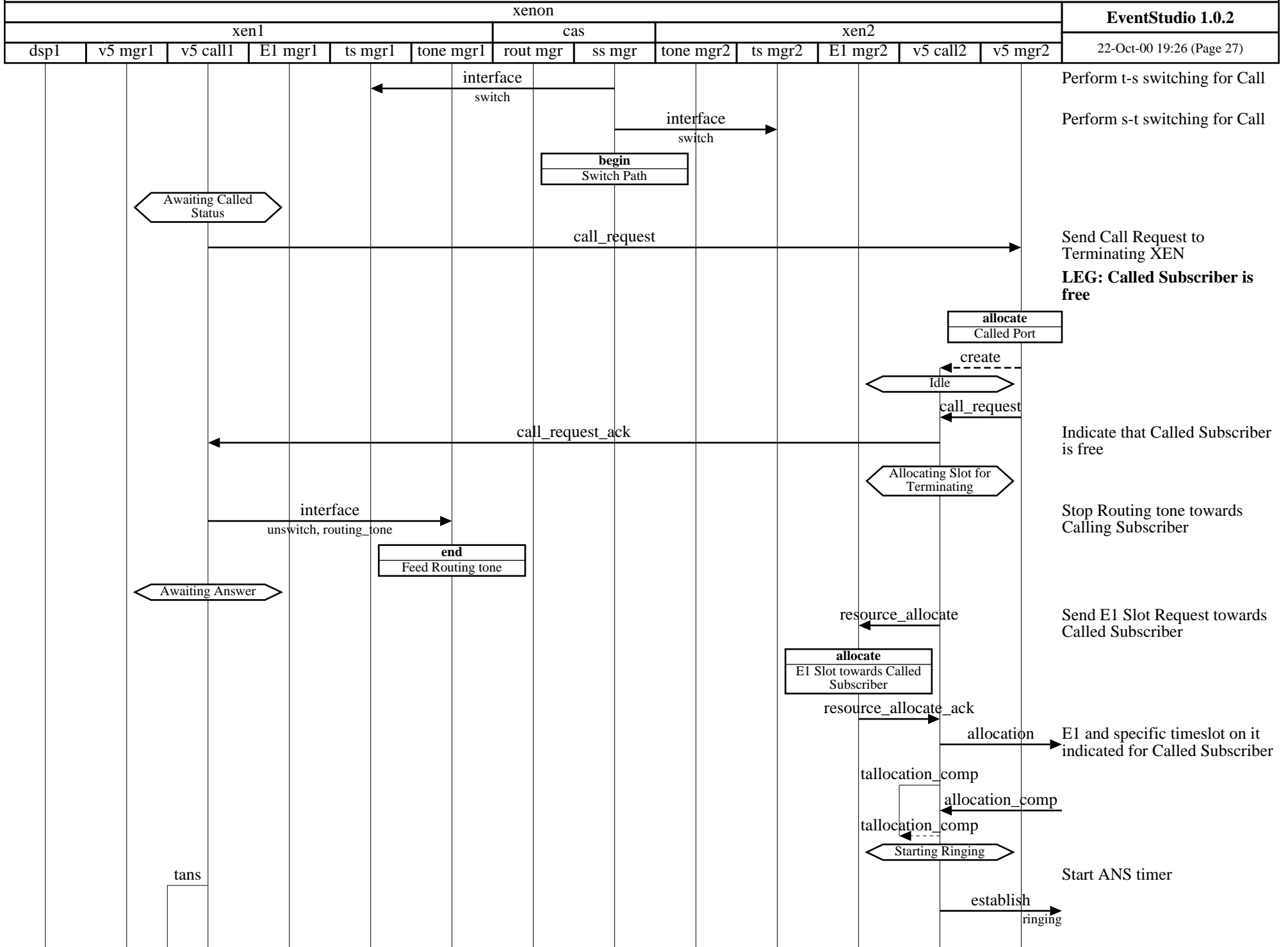
Switch Routing tone towards Calling Subscriber

Send Resource Request for space slot  
 Call Routing being performed

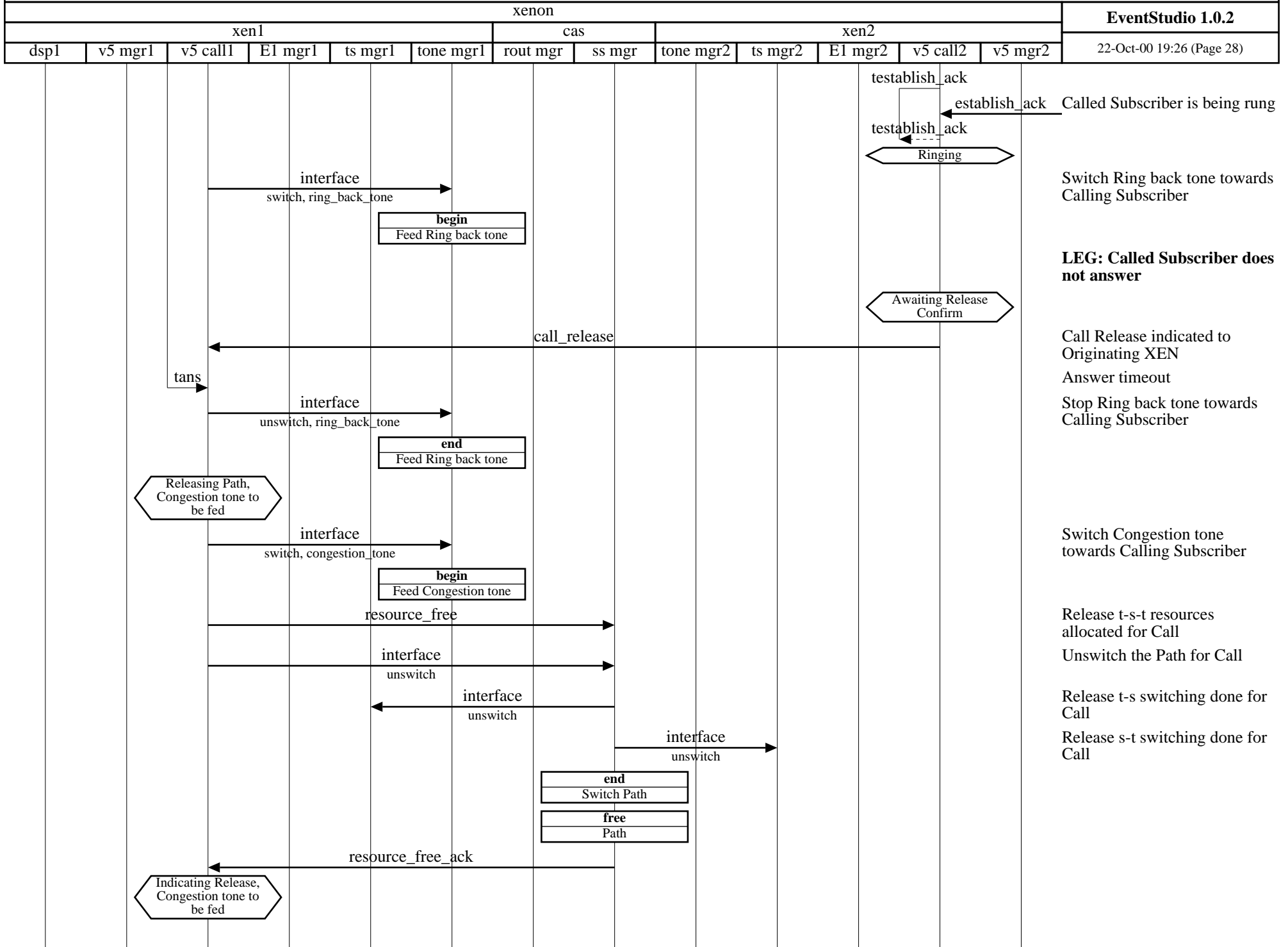
**LEG: Routing is successful**  
 Call to be terminated in this exchange detected; EntityID for Called DN determined

Resource Response containing t-s-t resources for Call received  
 Switch the Path for Call

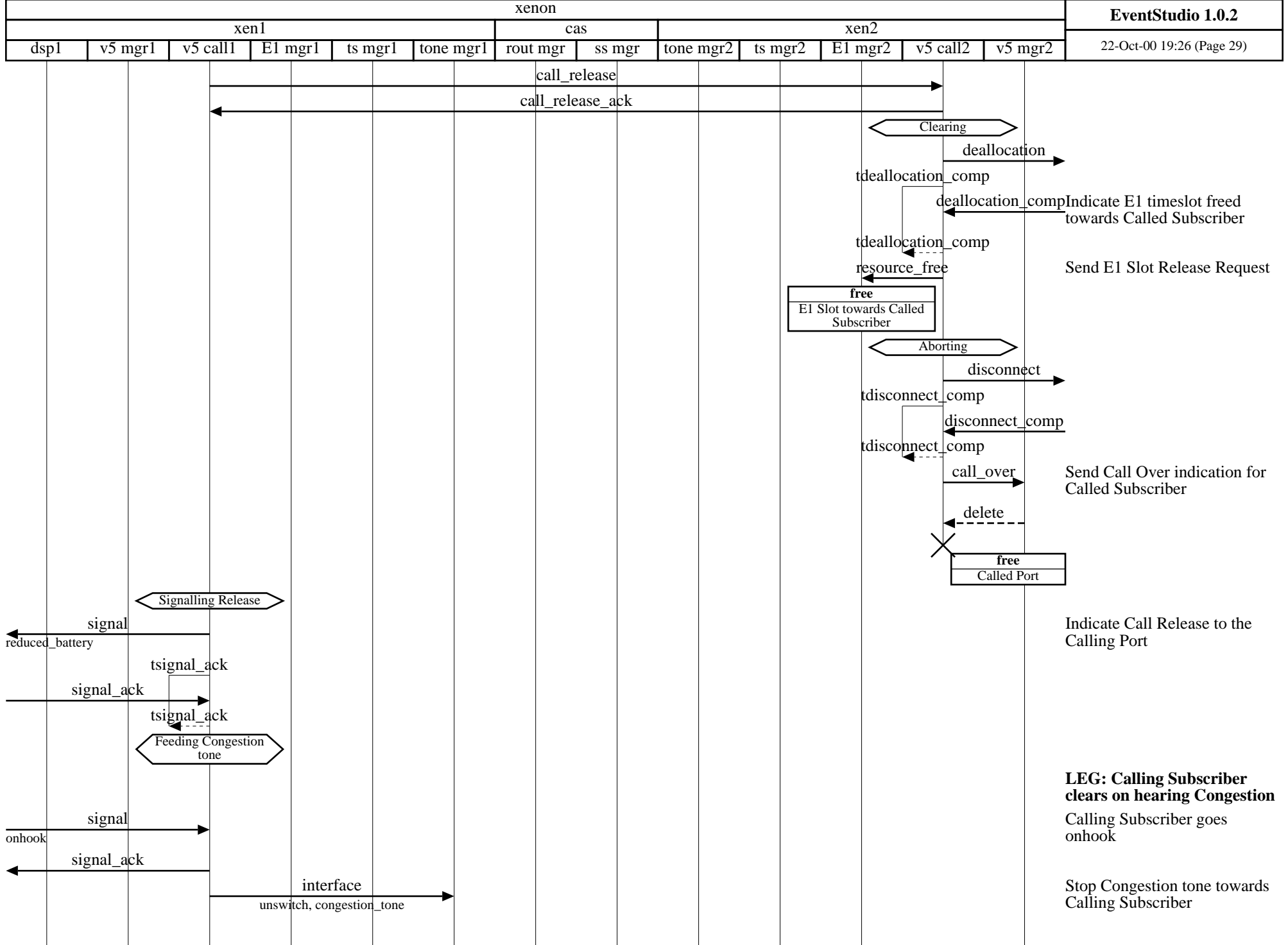
**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber does not answer)**



**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber does not answer)**

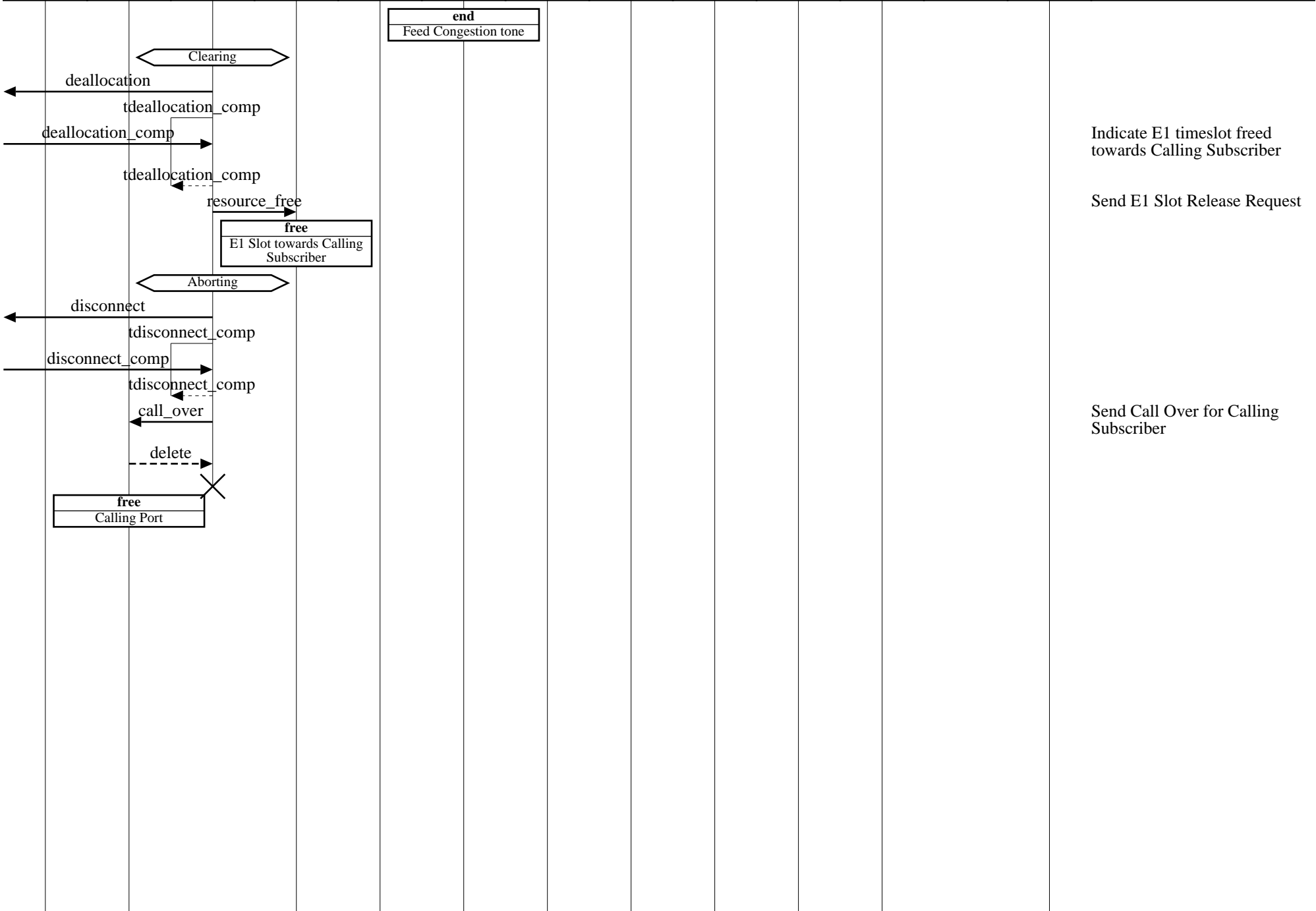


**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber does not answer)**



**Xenon switch V5.2 Line to Line Call (V5.2: Called subscriber does not answer)**

xenon												<b>EventStudio 1.0.2</b>
xen1						cas		xen2				22-Oct-00 19:26 (Page 30)
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2

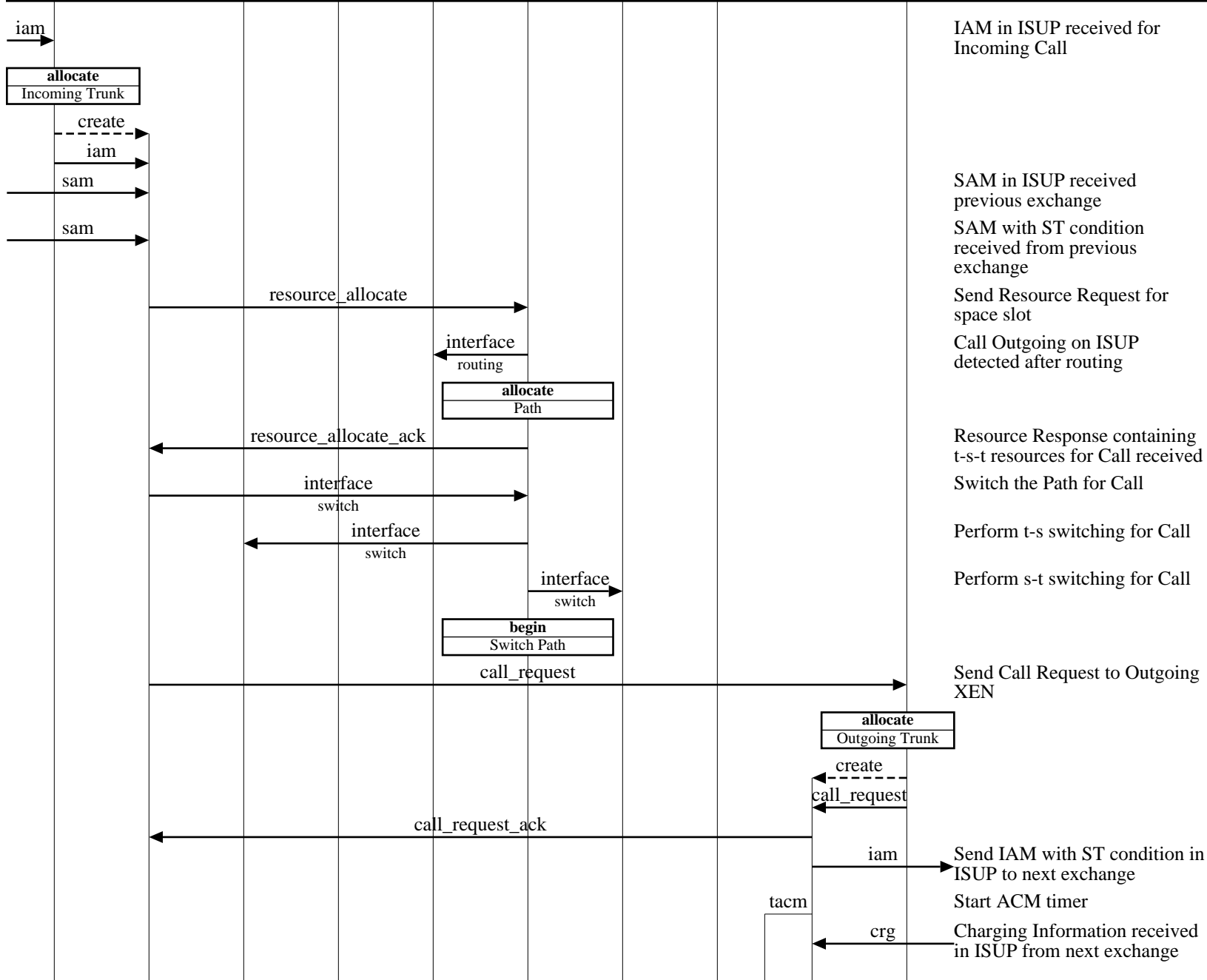


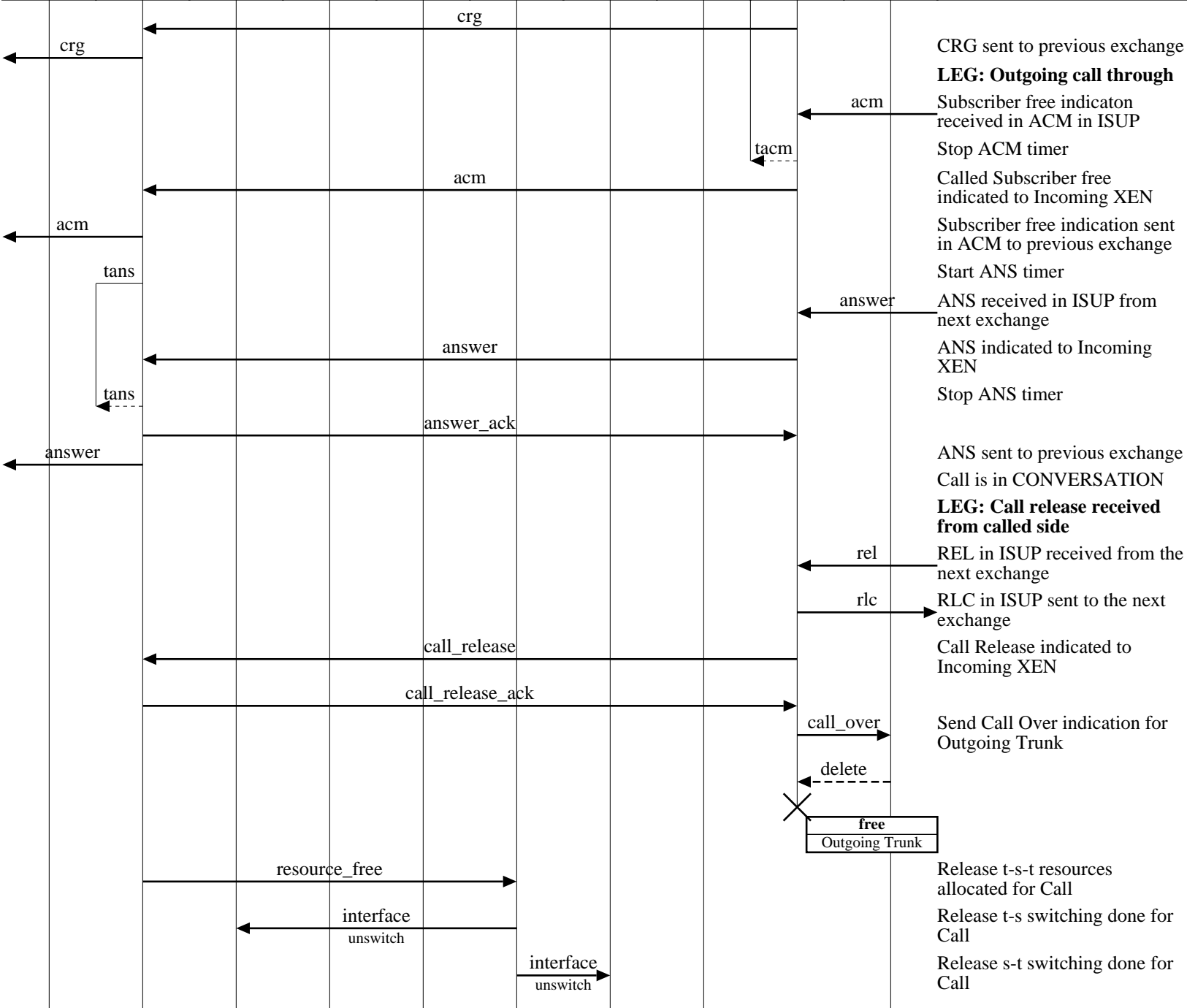
Indicate E1 timeslot freed towards Calling Subscriber

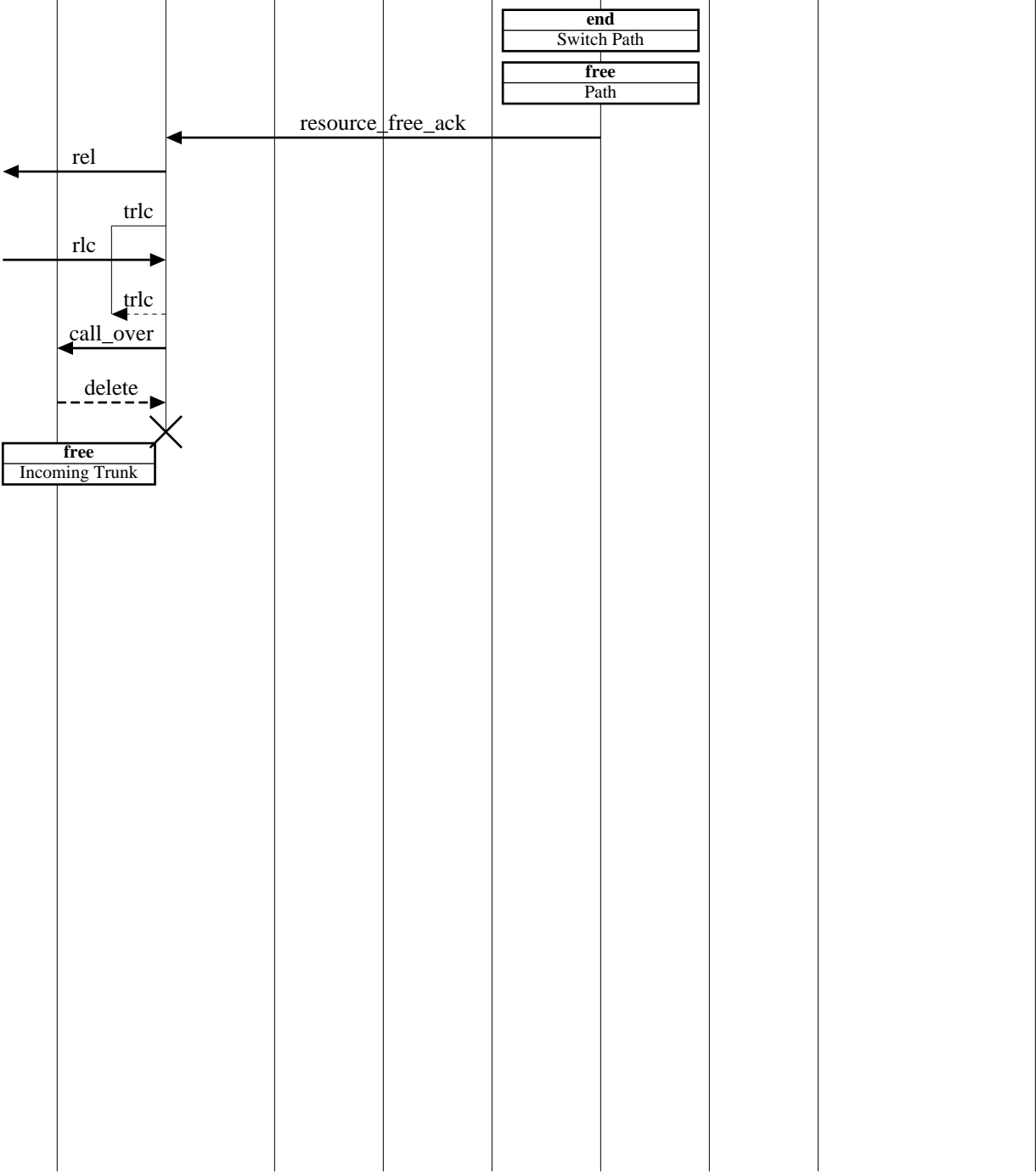
Send E1 Slot Release Request

Send Call Over for Calling Subscriber

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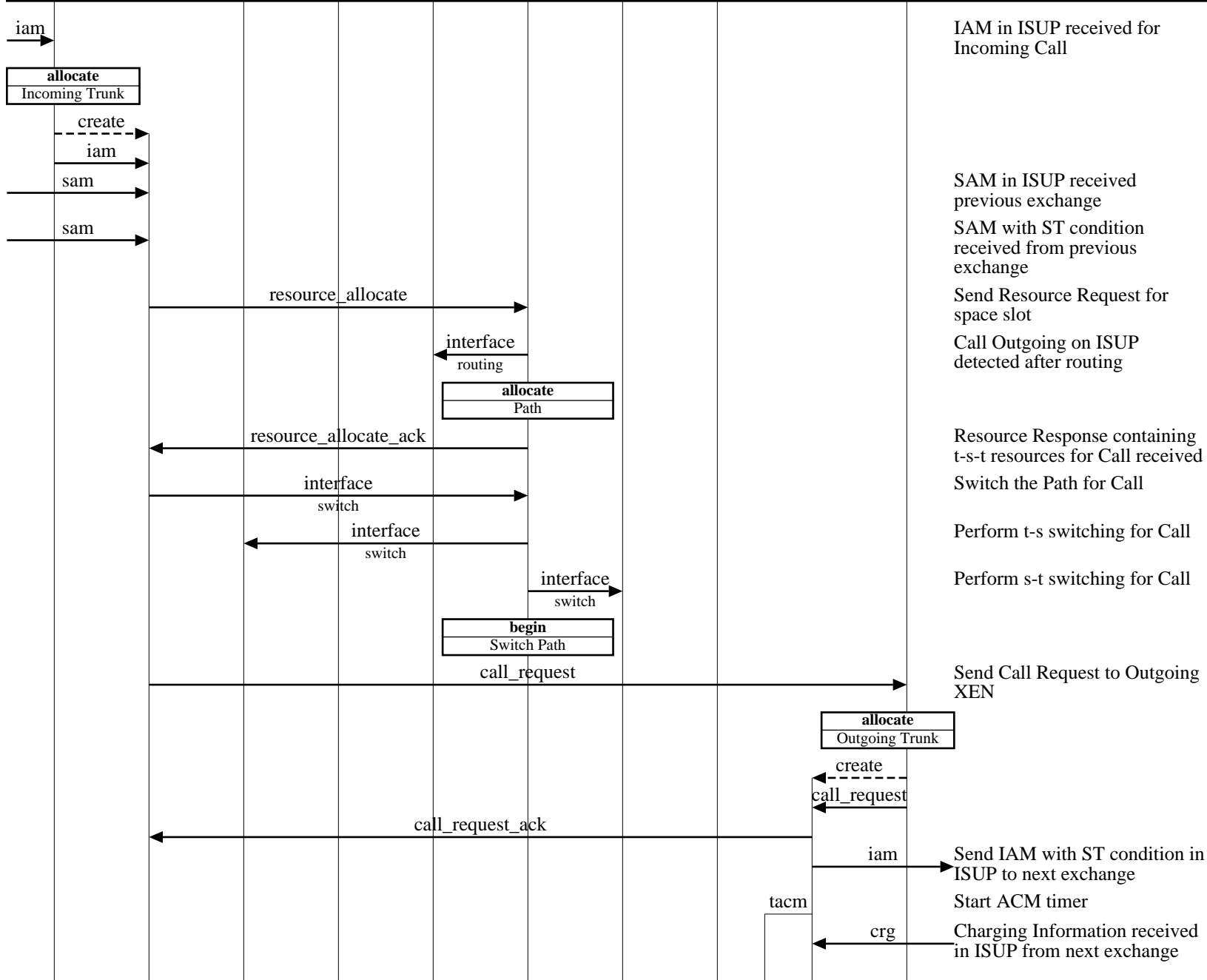
REL in ISUP sent to previous exchange  
 Start RLC timer  
 RLC in ISUP received from previous exchange  
 Stop RLC timer  
 Send Call Over indication for Incoming Trunk

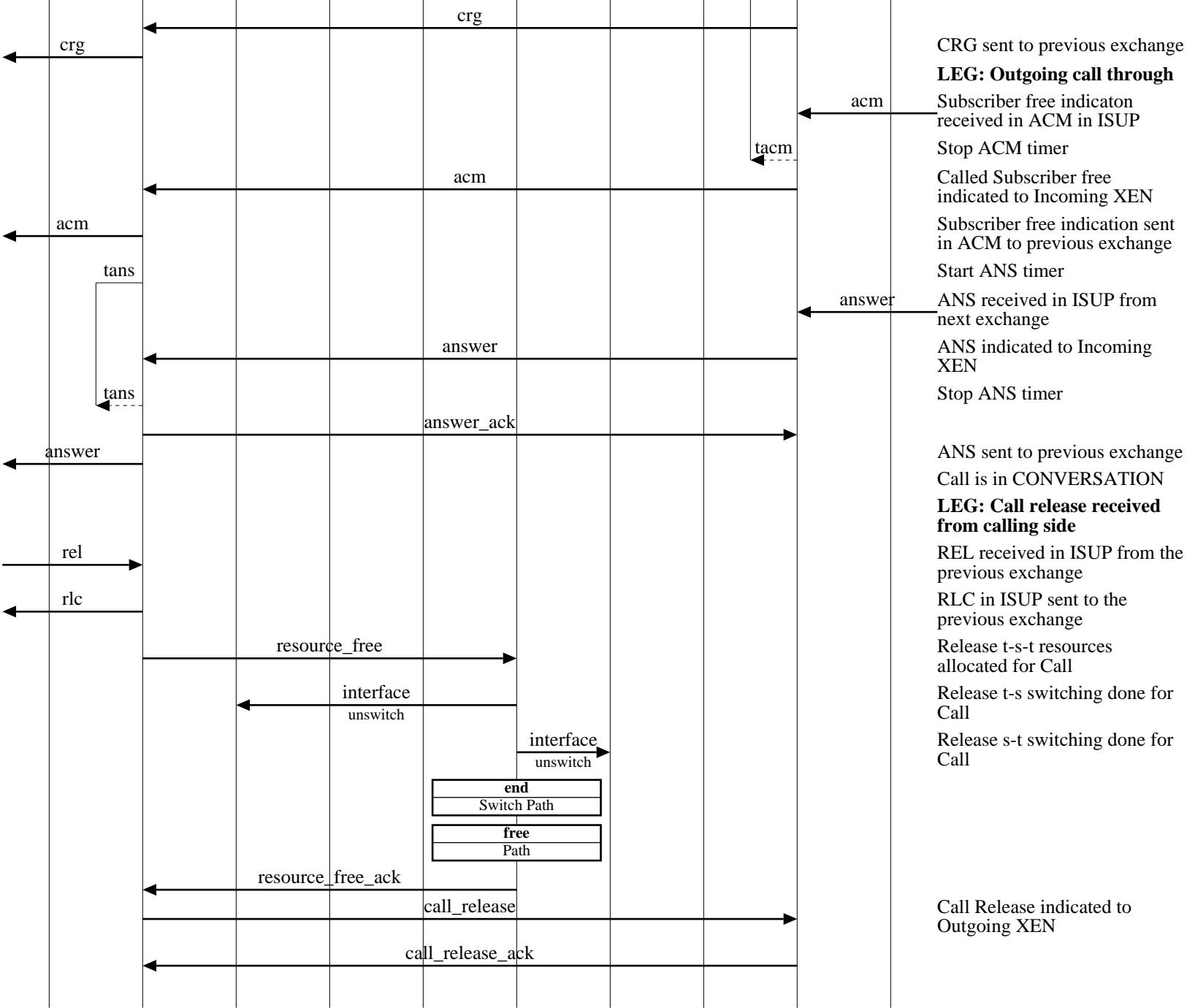
**end**  
Switch Path

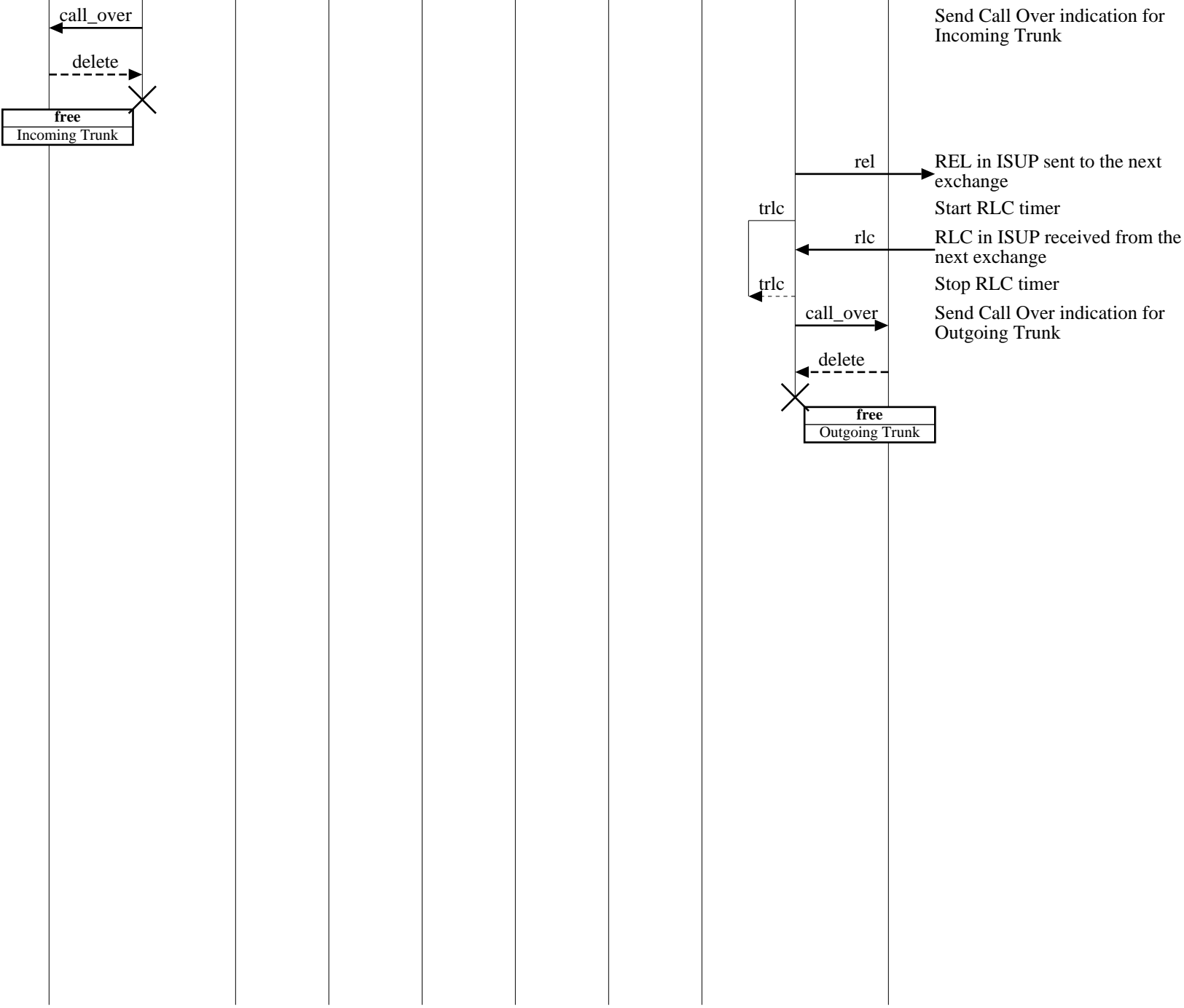
**free**  
Path

**free**  
Incoming Trunk

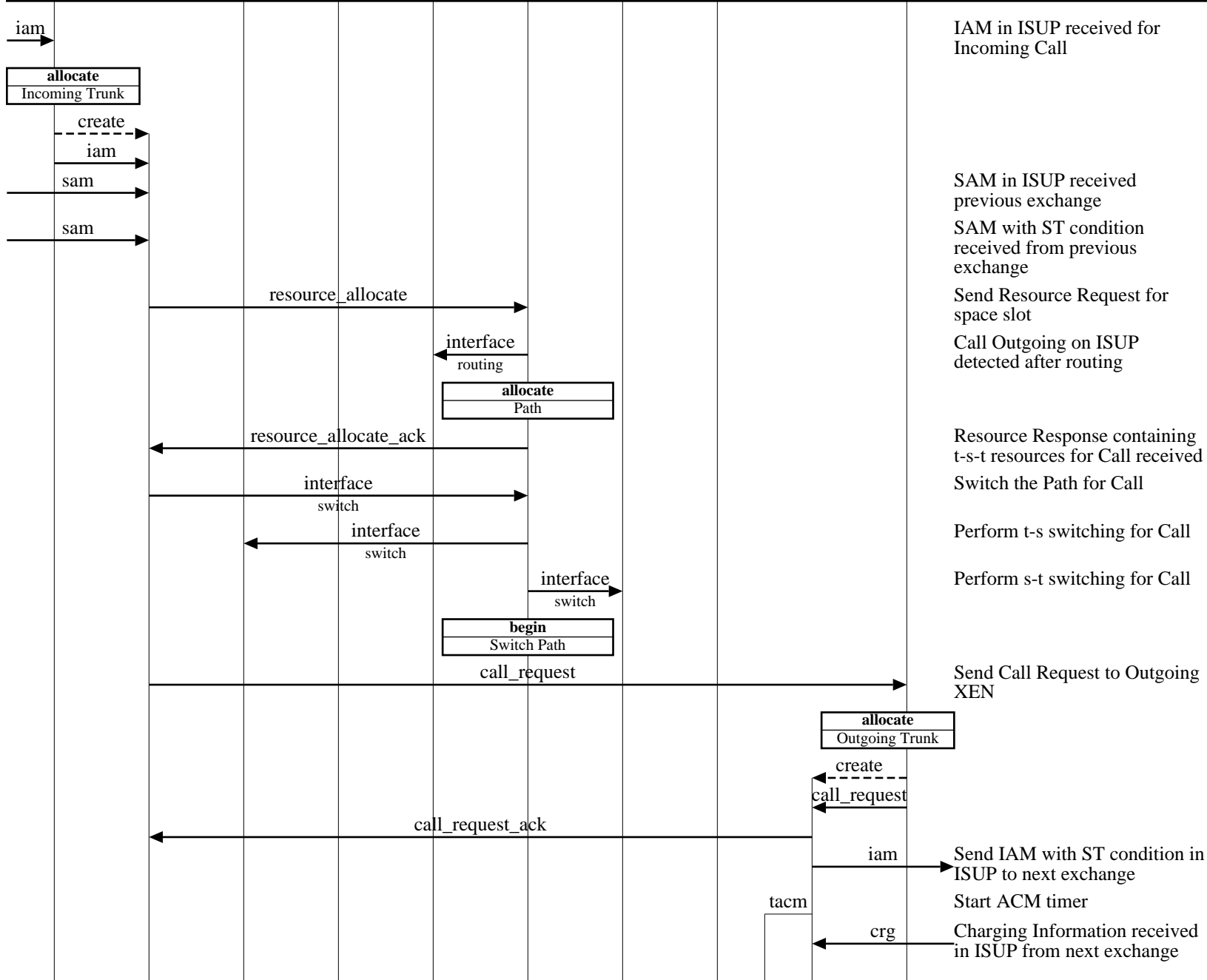
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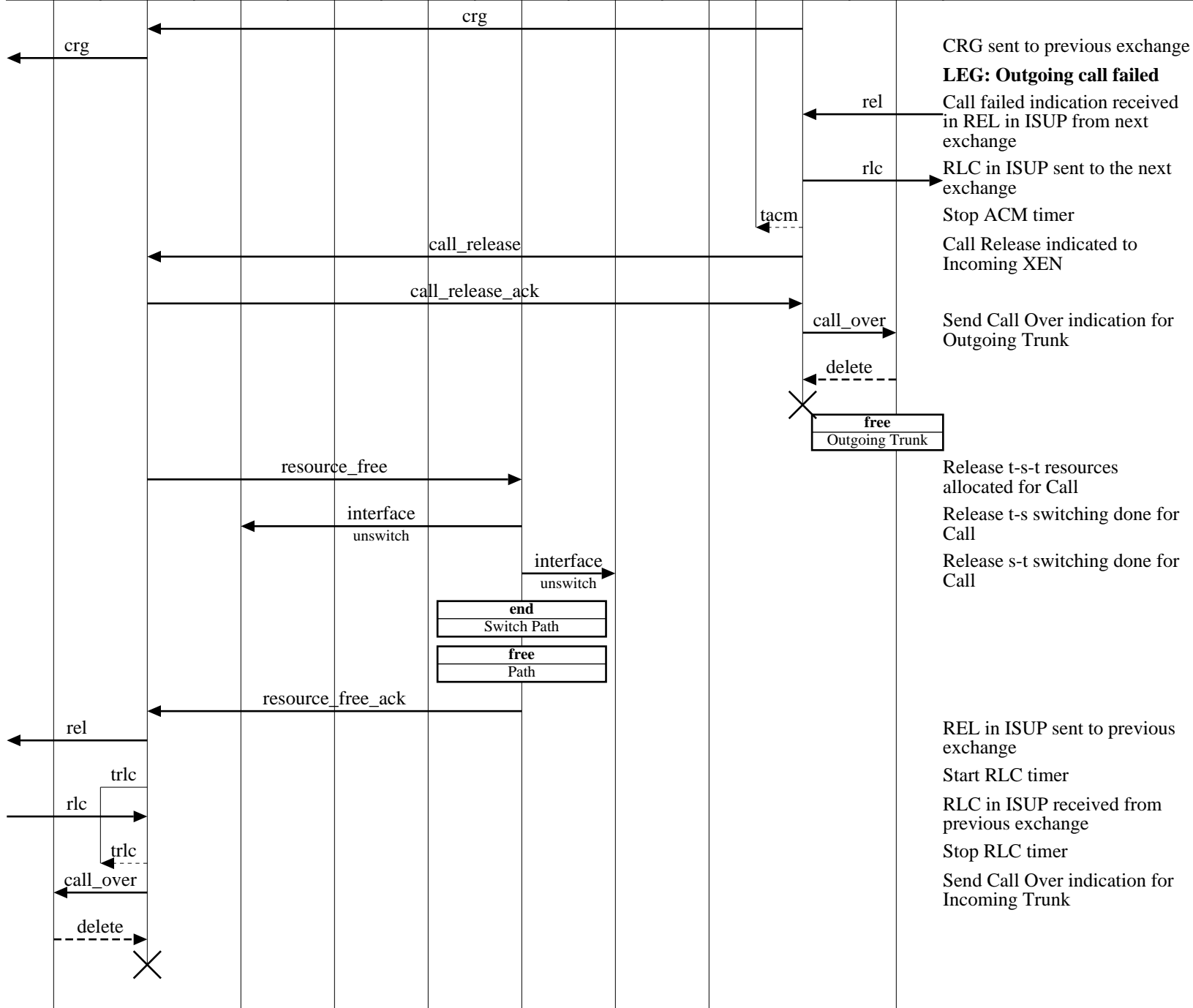






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CRG sent to previous exchange

**LEG: Outgoing call failed**

Call failed indication received in REL in ISUP from next exchange

RLC in ISUP sent to the next exchange

Stop ACM timer

Call Release indicated to Incoming XEN

Send Call Over indication for Outgoing Trunk

Release t-s-t resources allocated for Call

Release t-s switching done for Call

Release s-t switching done for Call

REL in ISUP sent to previous exchange

Start RLC timer

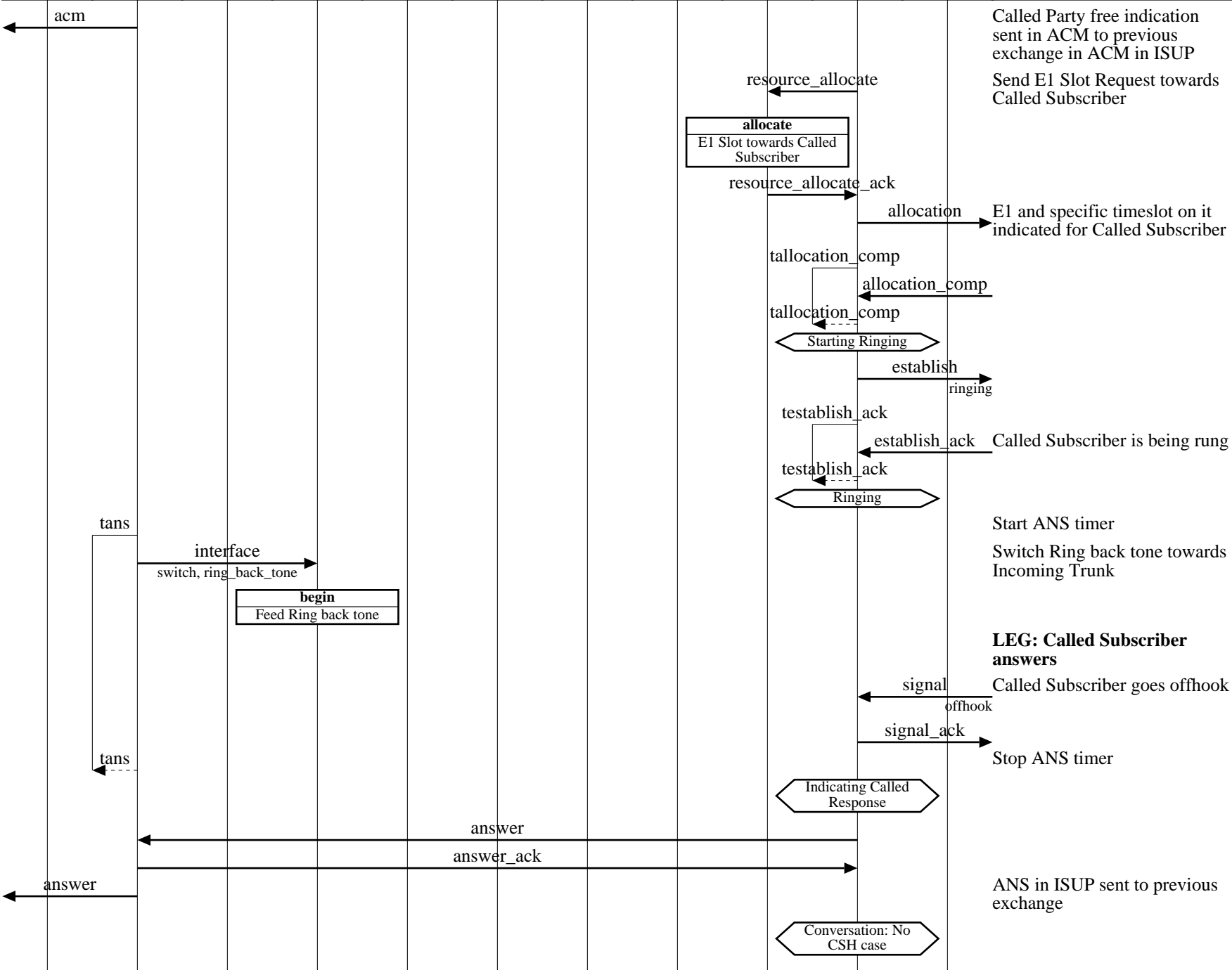
RLC in ISUP received from previous exchange

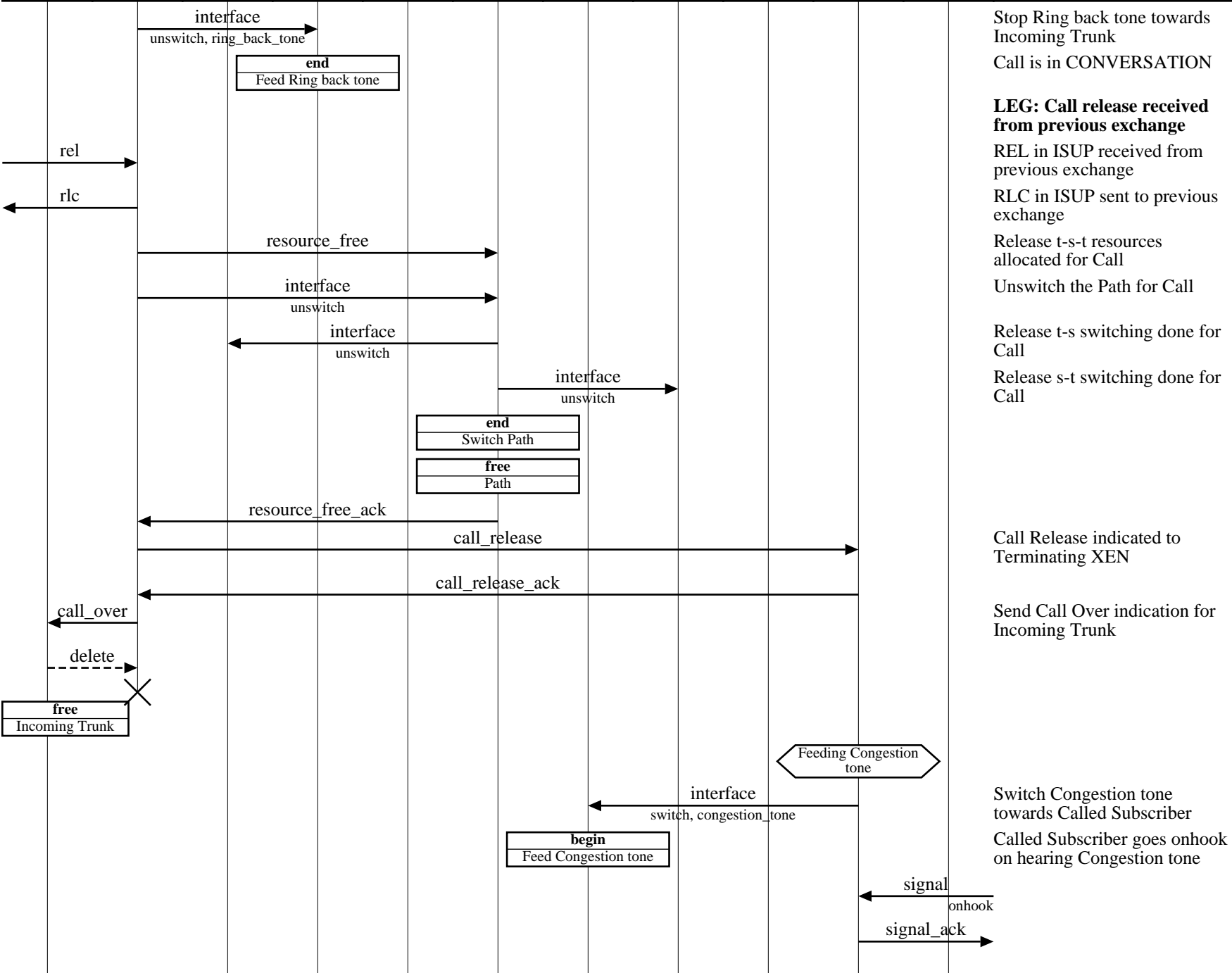
Stop RLC timer

Send Call Over indication for Incoming Trunk









Stop Ring back tone towards Incoming Trunk  
Call is in CONVERSATION

**LEG: Call release received from previous exchange**

REL in ISUP received from previous exchange

RLC in ISUP sent to previous exchange

Release t-s-t resources allocated for Call

Unswitch the Path for Call

Release t-s switching done for Call

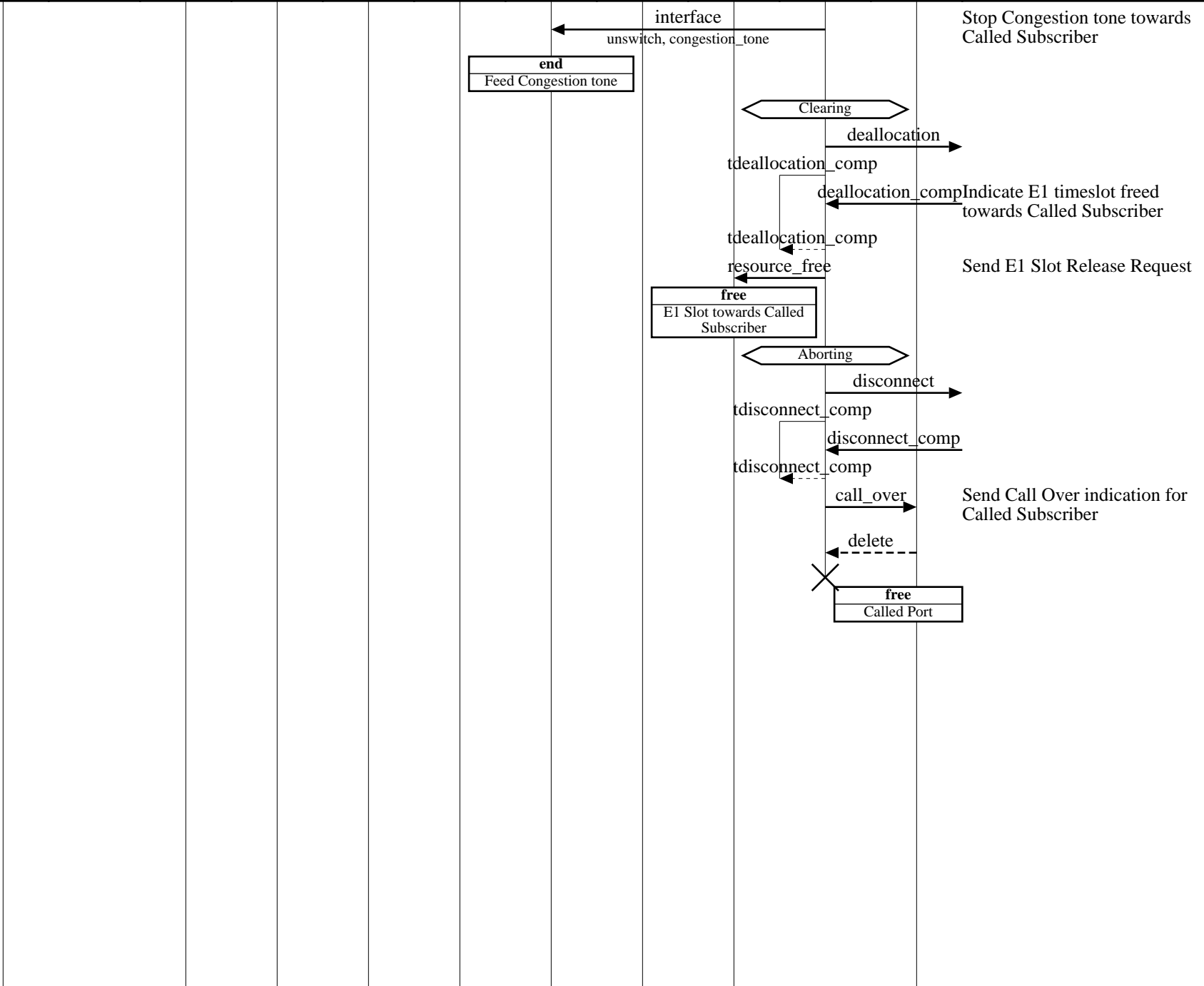
Release s-t switching done for Call

Call Release indicated to Terminating XEN

Send Call Over indication for Incoming Trunk

Switch Congestion tone towards Called Subscriber

Called Subscriber goes onhook on hearing Congestion tone



**Xenon switch Call incoming on ISUP (ISUP - V5.2: CSH timeout)**

xenon

**EventStudio 1.0.2**

xen1

cas

xen2

isup mgr1

isup call1

ts mgr1

tone mgr1

rout mgr

ss mgr

tone mgr2

ts mgr2

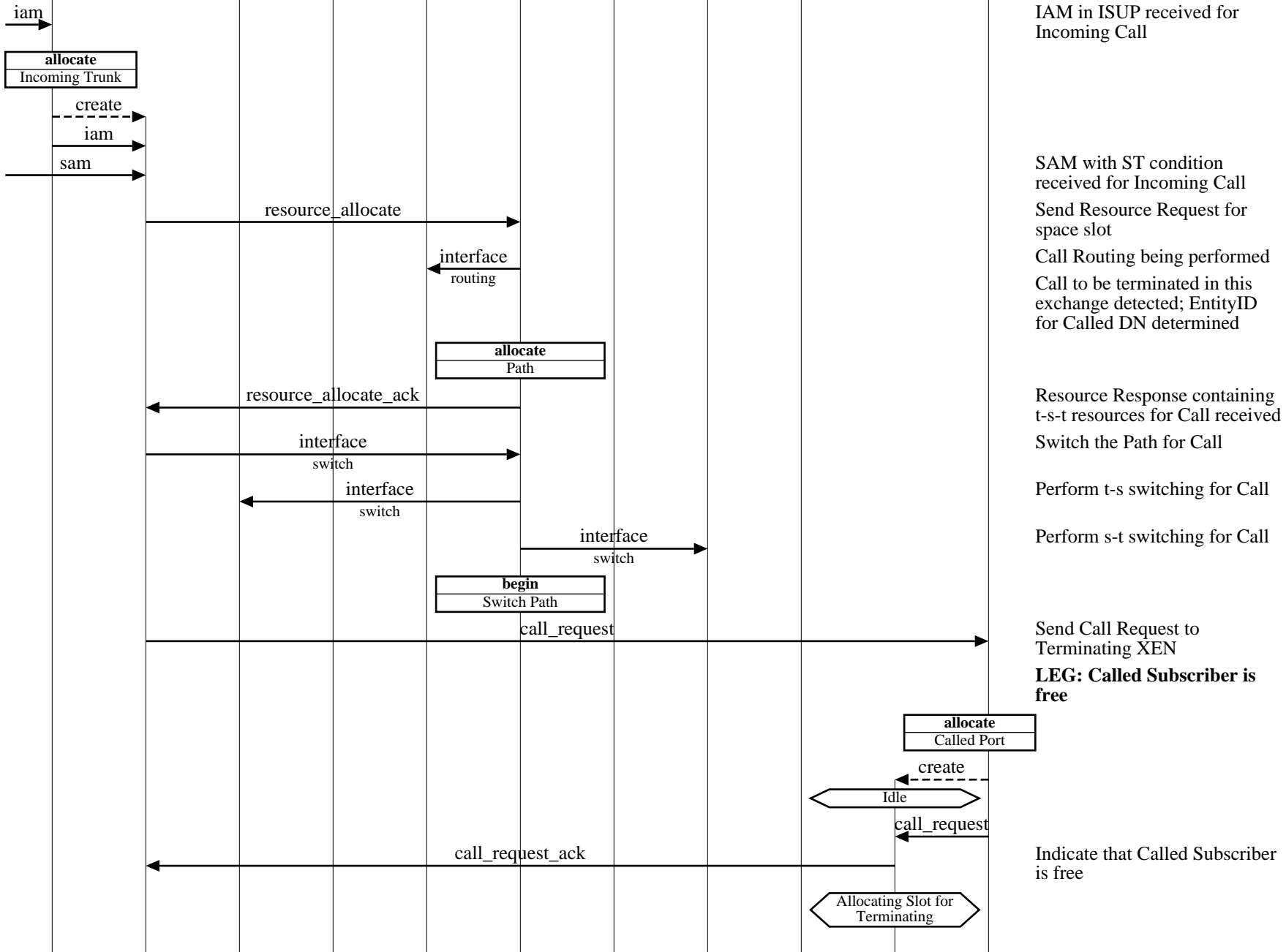
E1 mgr2

v5 call2

v5 mgr2

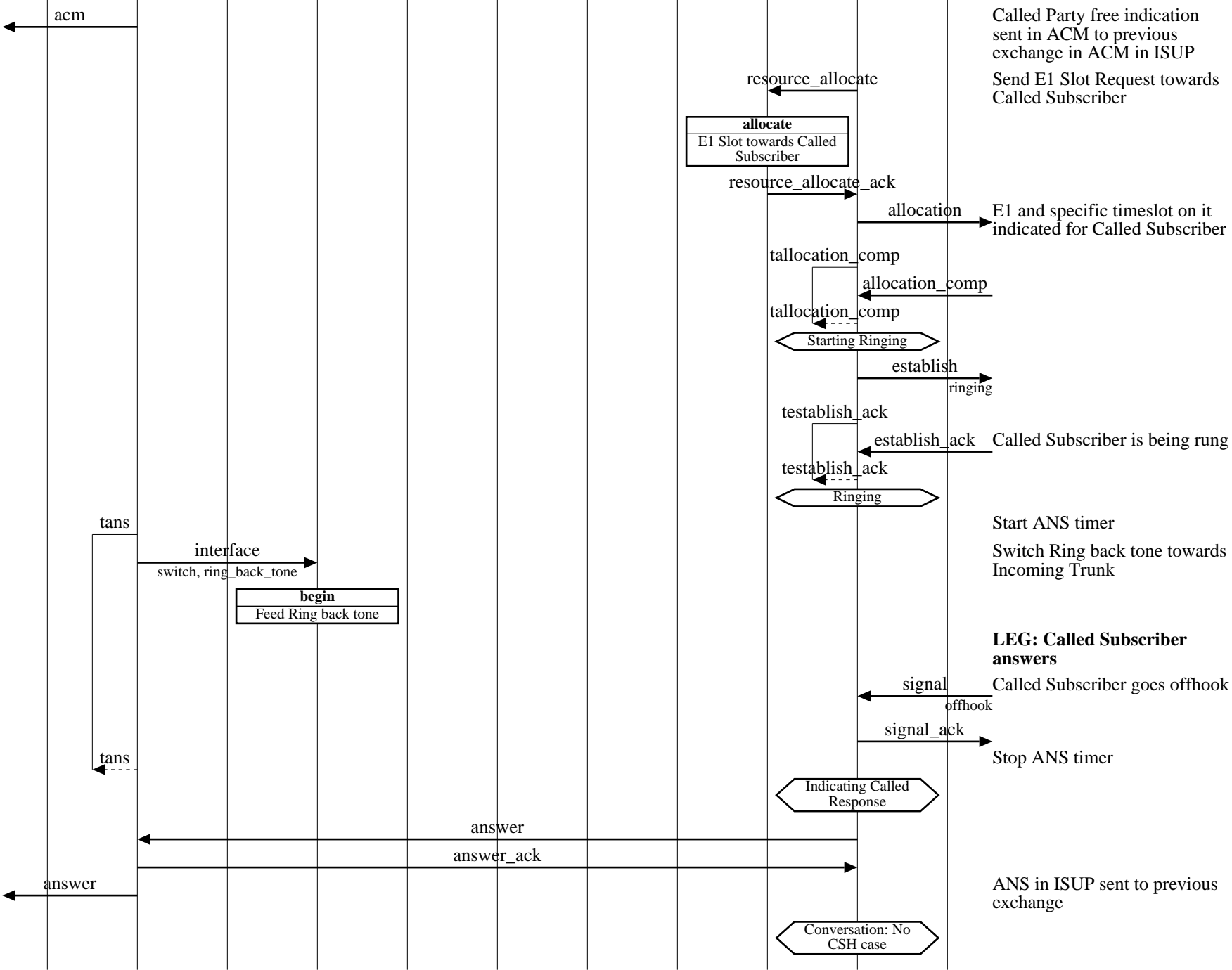
22-Oct-00 19:27 (Page 44)

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**Xenon switch Call incoming on ISUP (ISUP - V5.2: CSH timeout)**

xenon											EventStudio 1.0.2
xen1				cas		xen2					
isup mgr1	isup call1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	22-Oct-00 19:27 (Page 45)



**Xenon switch Call incoming on ISUP (ISUP - V5.2: CSH timeout)**

xenon											<b>EventStudio 1.0.2</b>
xen1				cas		xen2					22-Oct-00 19:27 (Page 46)
isup mgr1	isup call1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	

interface  
unswitch, ring\_back\_tone

**end**  
Feed Ring back tone

Stop Ring back tone towards Incoming Trunk  
Call is in CONVERSATION

**LEG: Called Subscriber goes onhook**

Called Subscriber goes onhook

signal  
onhook

signal\_ack

Start CSH timer

tsh

Conversation: CSH case

signal  
offhook

Called Subscriber goes offhook

Stop CSH timer

tsh

signal\_ack

Call is in CONVERSATION

Conversation: No CSH case

signal  
onhook

Called Subscriber goes onhook

signal\_ack

Start CSH timer

tsh

Conversation: CSH case

CSH timeout

tsh

Awaiting Release Confirm

Call Release indicated to Incoming XEN

Release t-s-t resources allocated for Call

Unswitch the Path for Call

call\_release

resource\_free

interface  
unswitch

Release t-s switching done for Call

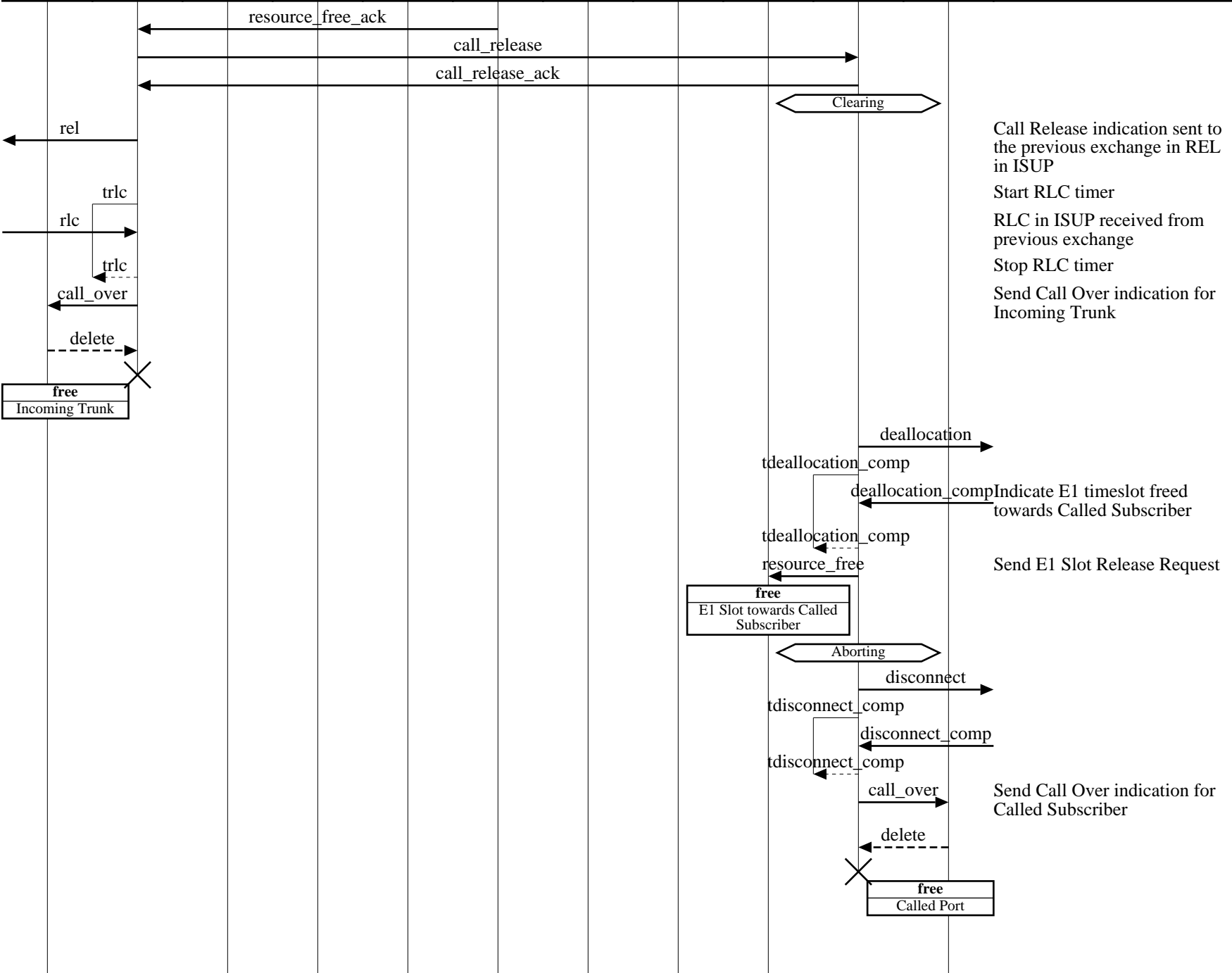
interface  
unswitch

Release s-t switching done for Call

interface  
unswitch

**end**  
Switch Path

**free**  
Path



**Xenon switch Call incoming on ISUP (ISUP - V5.2: Outgoing call failed)**

xenon

**EventStudio 1.0.2**

xen1

cas

xen2

isup mgr1

isup call1

ts mgr1

tone mgr1

rout mgr

ss mgr

tone mgr2

ts mgr2

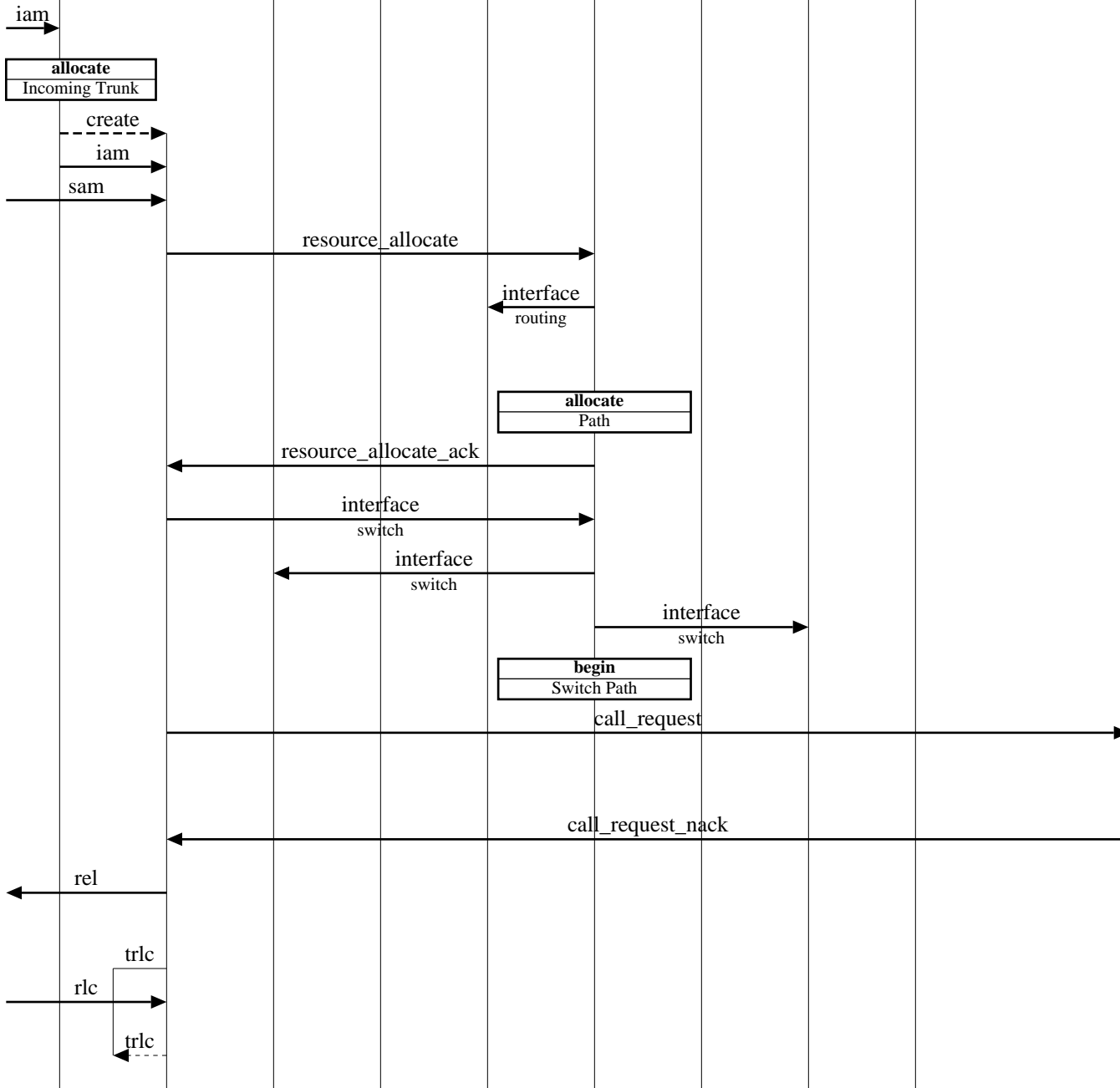
E1 mgr2

v5 call2

v5 mgr2

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IAM in ISUP received for Incoming Call

SAM with ST condition received for Incoming Call  
 Send Resource Request for space slot  
 Call Routing being performed  
 Call to be terminated in this exchange detected; EntityID for Called DN determined

Resource Response containing t-s-t resources for Call received  
 Switch the Path for Call

Perform t-s switching for Call

Perform s-t switching for Call

Send Call Request to Terminating XEN

**LEG: Called Subscriber is busy**

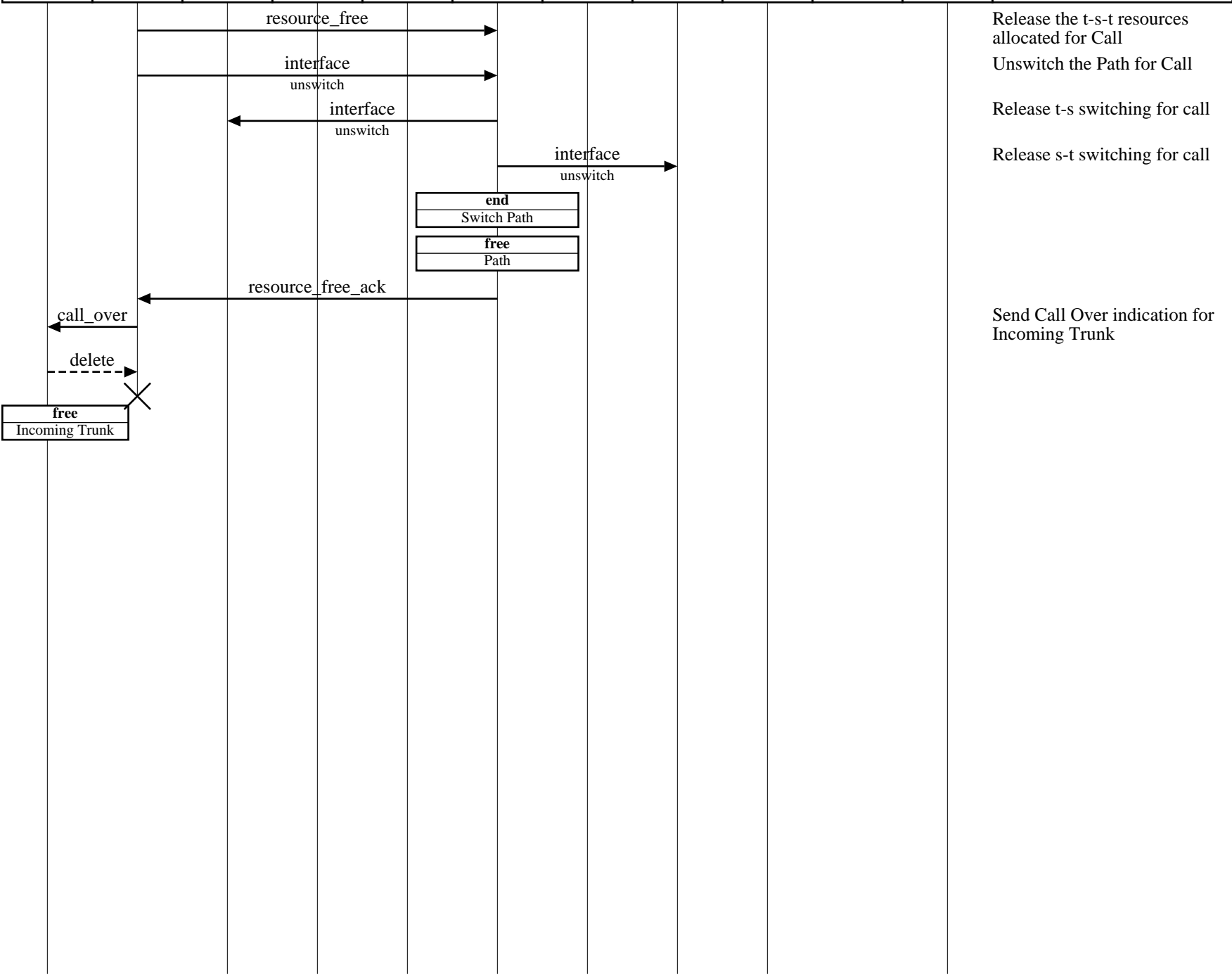
Indicate that Called Subscriber is busy

Called Party busy indication sent to the previous exchange in REL in ISUP

Start RLC timer

RLC in ISUP received from previous exchange

Stop RLC timer



Release the t-s-t resources allocated for Call

Unswitch the Path for Call

Release t-s switching for call

Release s-t switching for call

Send Call Over indication for Incoming Trunk

**Xenon switch Call incoming on ISUP (ISUP - V5.2: Called subscriber does not answer)**

xenon

**EventStudio 1.0.2**

xen1

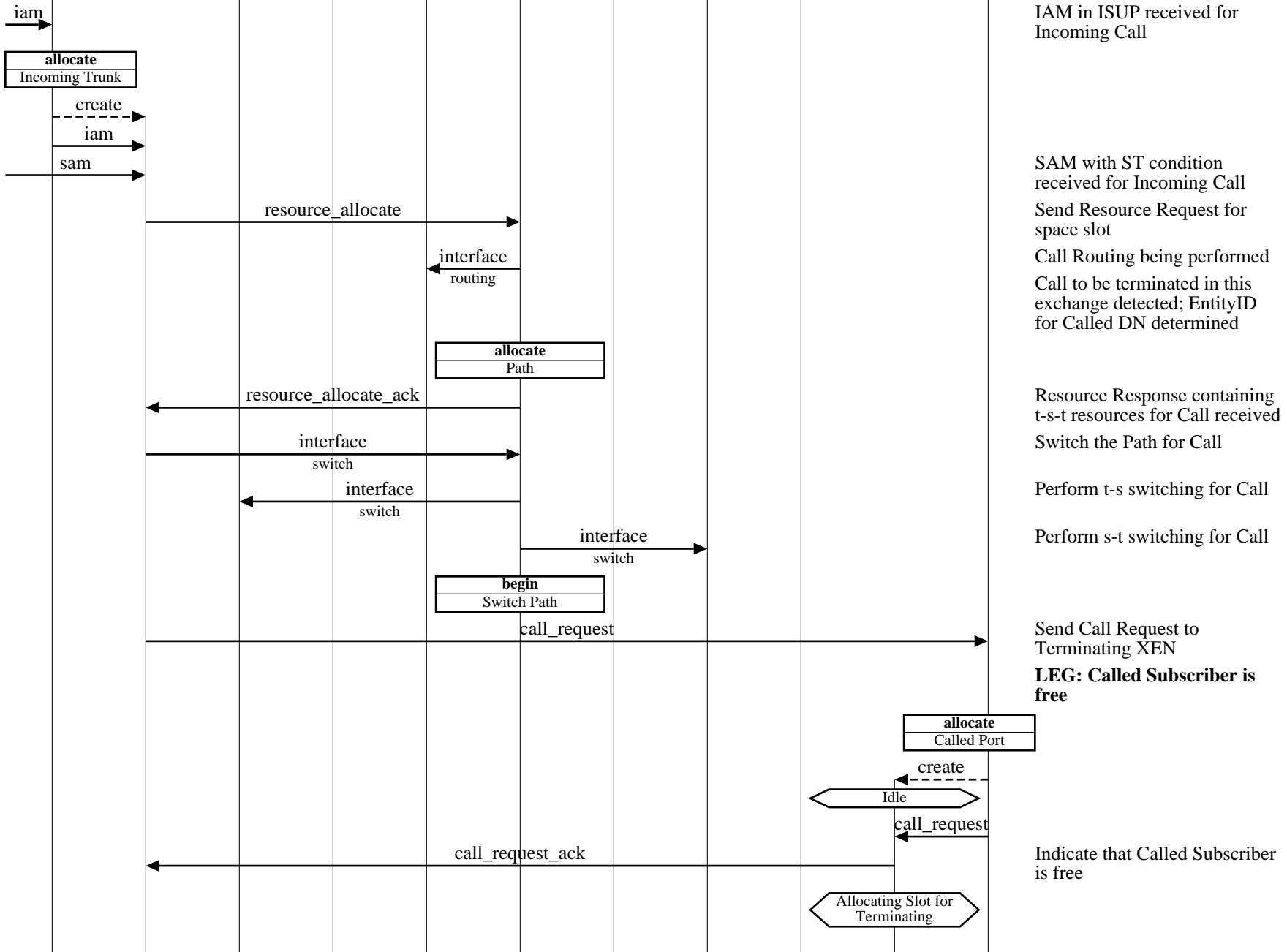
cas

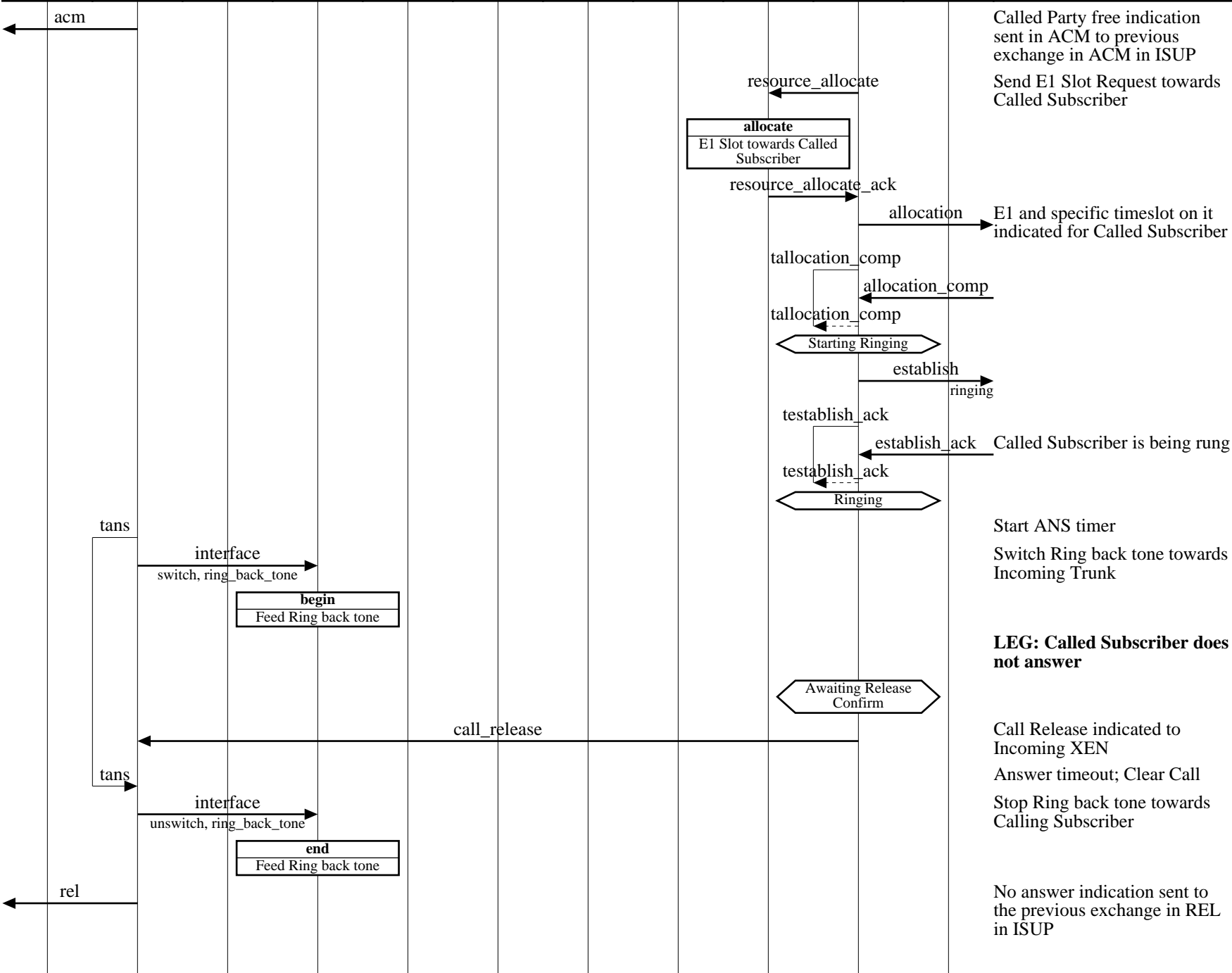
xen2

isup mgr1 | isup call1 | ts mgr1 | tone mgr1 | rout mgr | ss mgr | tone mgr2 | ts mgr2 | E1 mgr2 | v5 call2 | v5 mgr2

22-Oct-00 19:27 (Page 50)

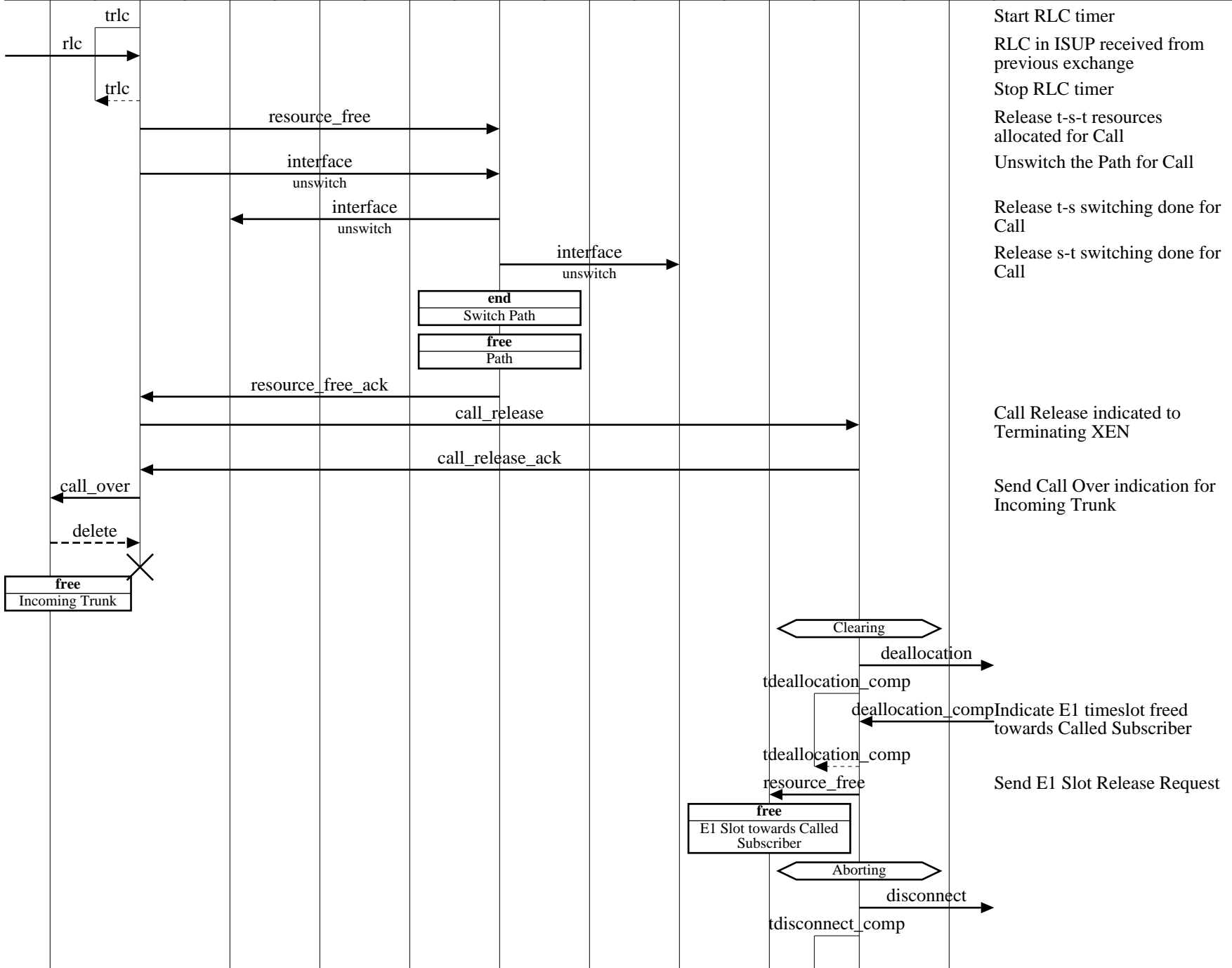
Copyright (c) 2000. EventHelix.com. All Rights Reserved.

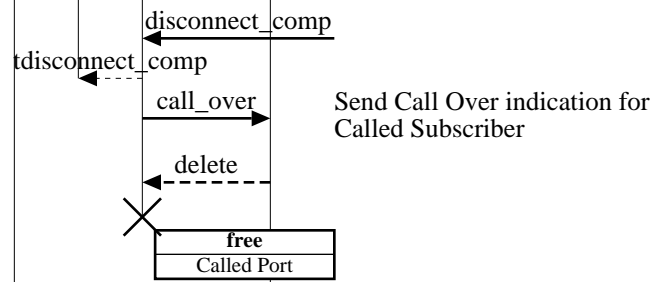




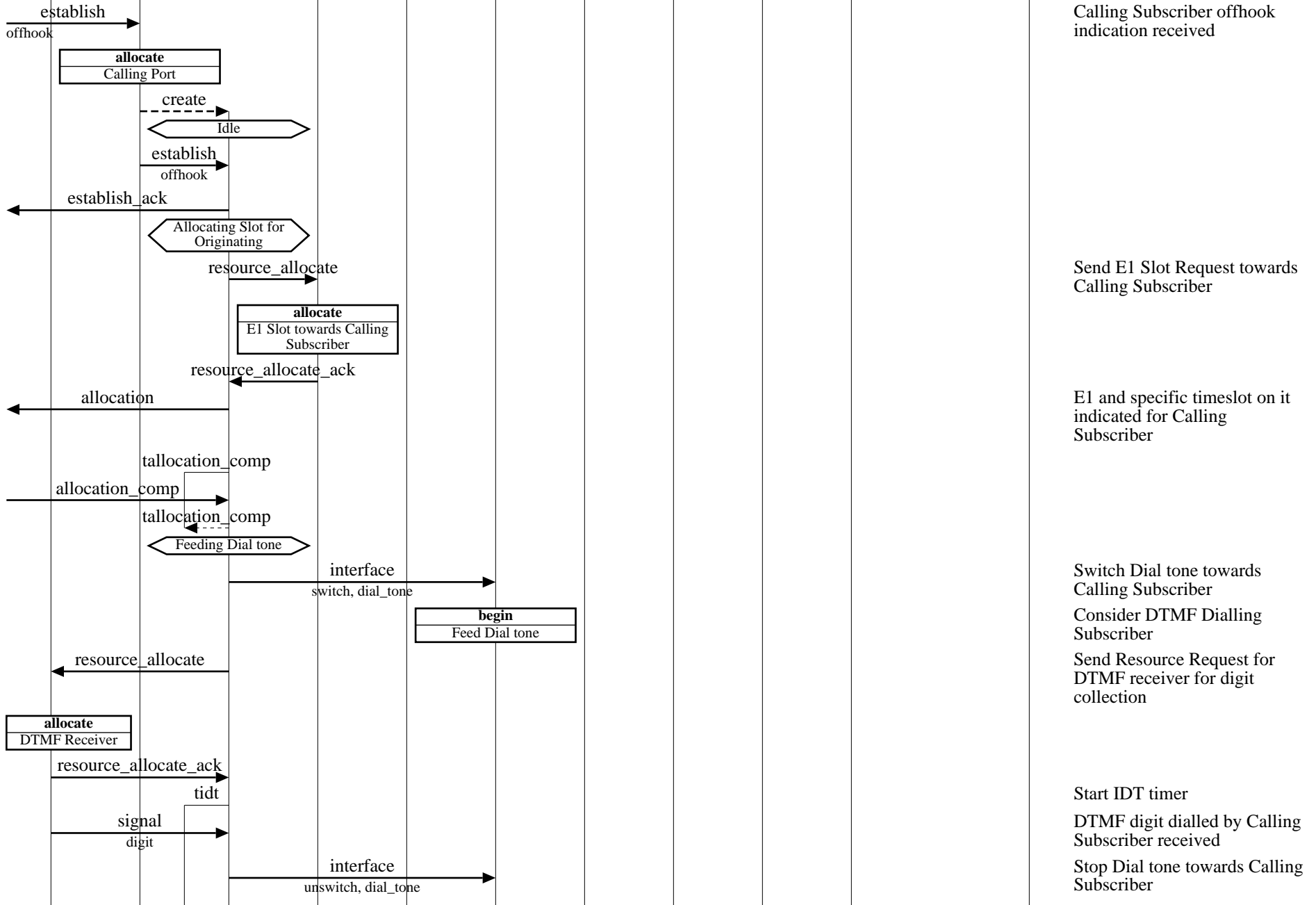
**Xenon switch Call incoming on ISUP (ISUP - V5.2: Called subscriber does not answer)**

xenon											<b>EventStudio 1.0.2</b>
xen1				cas		xen2					22-Oct-00 19:27 (Page 52)
isup mgr1	isup call1	ts mgr1	tone mgr1	rout mgr	ss mgr	tone mgr2	ts mgr2	E1 mgr2	v5 call2	v5 mgr2	





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Calling Subscriber offhook indication received

Send E1 Slot Request towards Calling Subscriber

E1 and specific timeslot on it indicated for Calling Subscriber

Switch Dial tone towards Calling Subscriber

Consider DTMF Dialling Subscriber

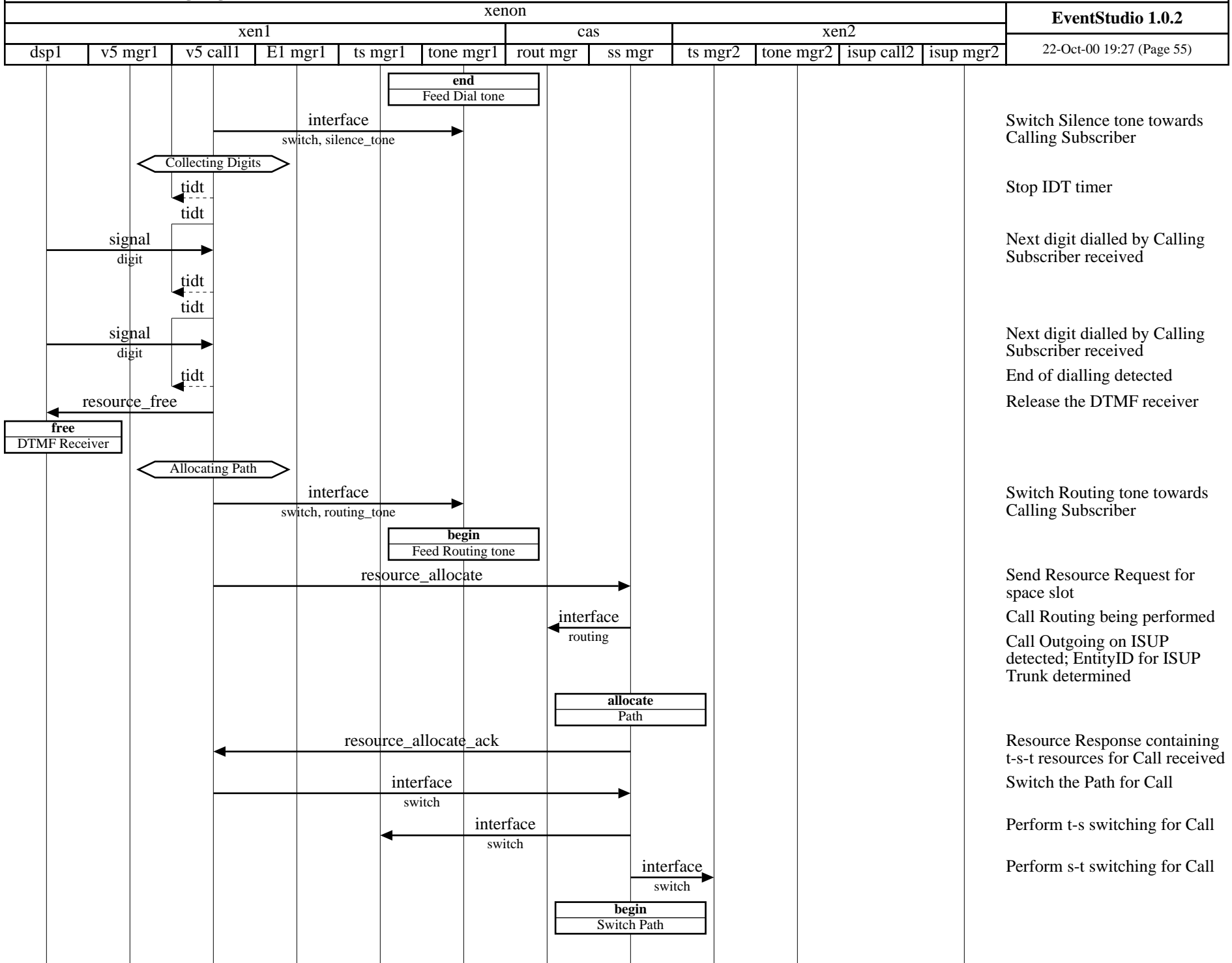
Send Resource Request for DTMF receiver for digit collection

Start IDT timer

DTMF digit dialled by Calling Subscriber received

Stop Dial tone towards Calling Subscriber

**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Successful call)**



Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received

End of dialling detected

Release the DTMF receiver

Switch Routing tone towards Calling Subscriber

Send Resource Request for space slot

Call Routing being performed

Call Outgoing on ISUP detected; EntityID for ISUP Trunk determined

Resource Response containing t-s-t resources for Call received

Switch the Path for Call

Perform t-s switching for Call

Perform s-t switching for Call

**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Successful call)**

xenon										EventStudio 1.0.2		
xen1					cas		xen2					
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	routr mgr	ss mgr	ts mgr2	tone mgr2	isup call2	isup mgr2	22-Oct-00 19:27 (Page 56)

Awaiting Called Status

call\_request

Send Call Request to Outgoing XEN

allocate  
Outgoing Trunk

create  
call\_request

call\_request\_ack

iam

IAM with ST condition in ISUP sent to next exchange  
Stop Routing tone towards Calling Subscriber

interface

unswitch, routing\_tone

end  
Feed Routing tone

Awaiting Answer

interface

switch, ring\_back\_tone

begin  
Feed Ring back tone

Switch Ring back tone towards Calling Subscriber

tacm

Start ACM timer

crg

Charging info received in ISUP signalling from next exchange

crg

**LEG: Outgoing call through**  
Subscriber free indication received in ACM in ISUP from next exchange  
Stop ACM timer

tacm

acm

Start ANS timer

answer

ANS in ISUP received from next exchange

tans

answer

Stop ANS timer

tans

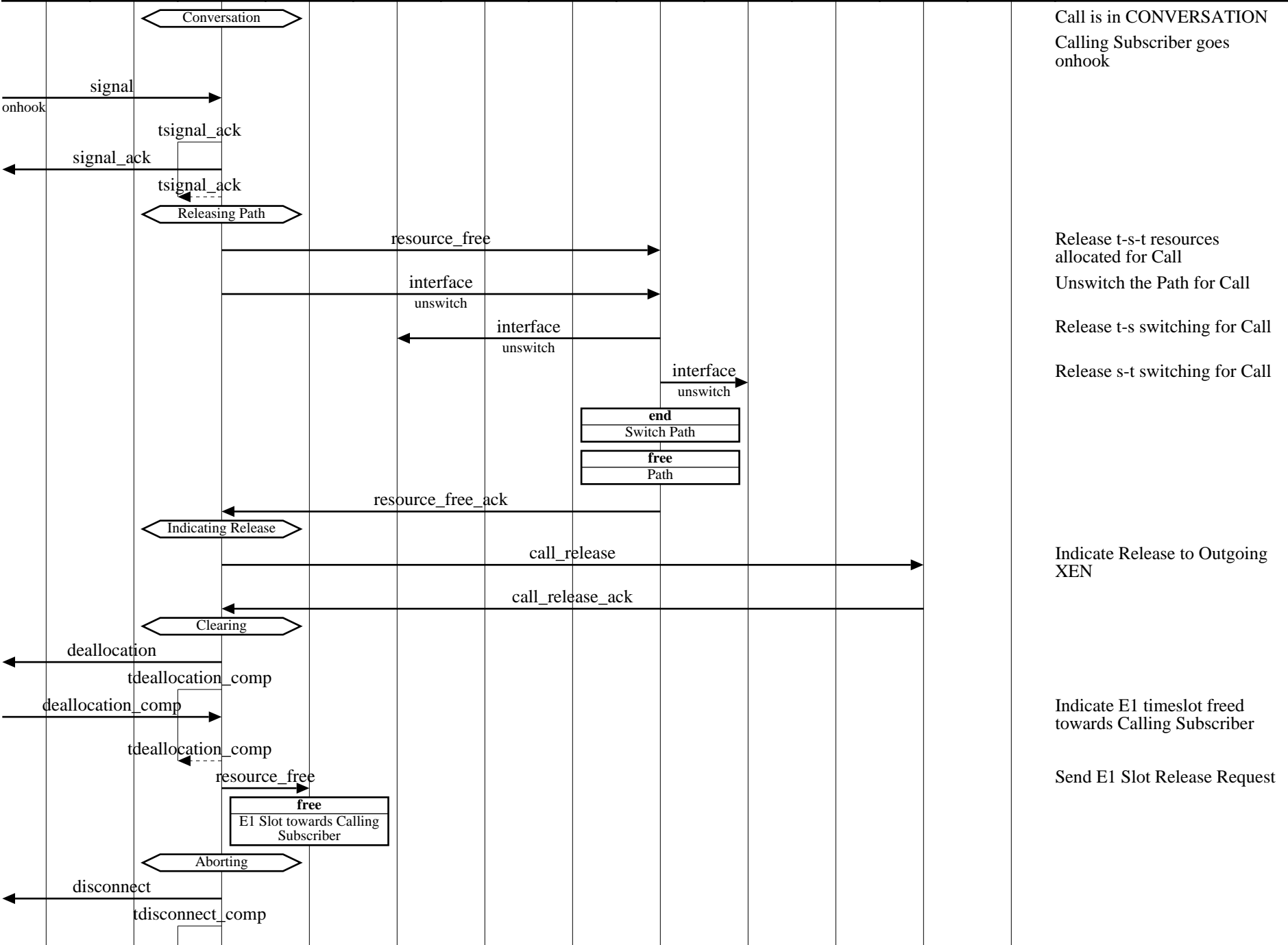
answer\_ack

Stop Ring back tone to the calling subscriber

interface

unswitch, ring\_back\_tone

end  
Feed Ring back tone



Call is in CONVERSATION  
 Calling Subscriber goes onhook

Release t-s-t resources allocated for Call  
 Unswitch the Path for Call  
 Release t-s switching for Call  
 Release s-t switching for Call

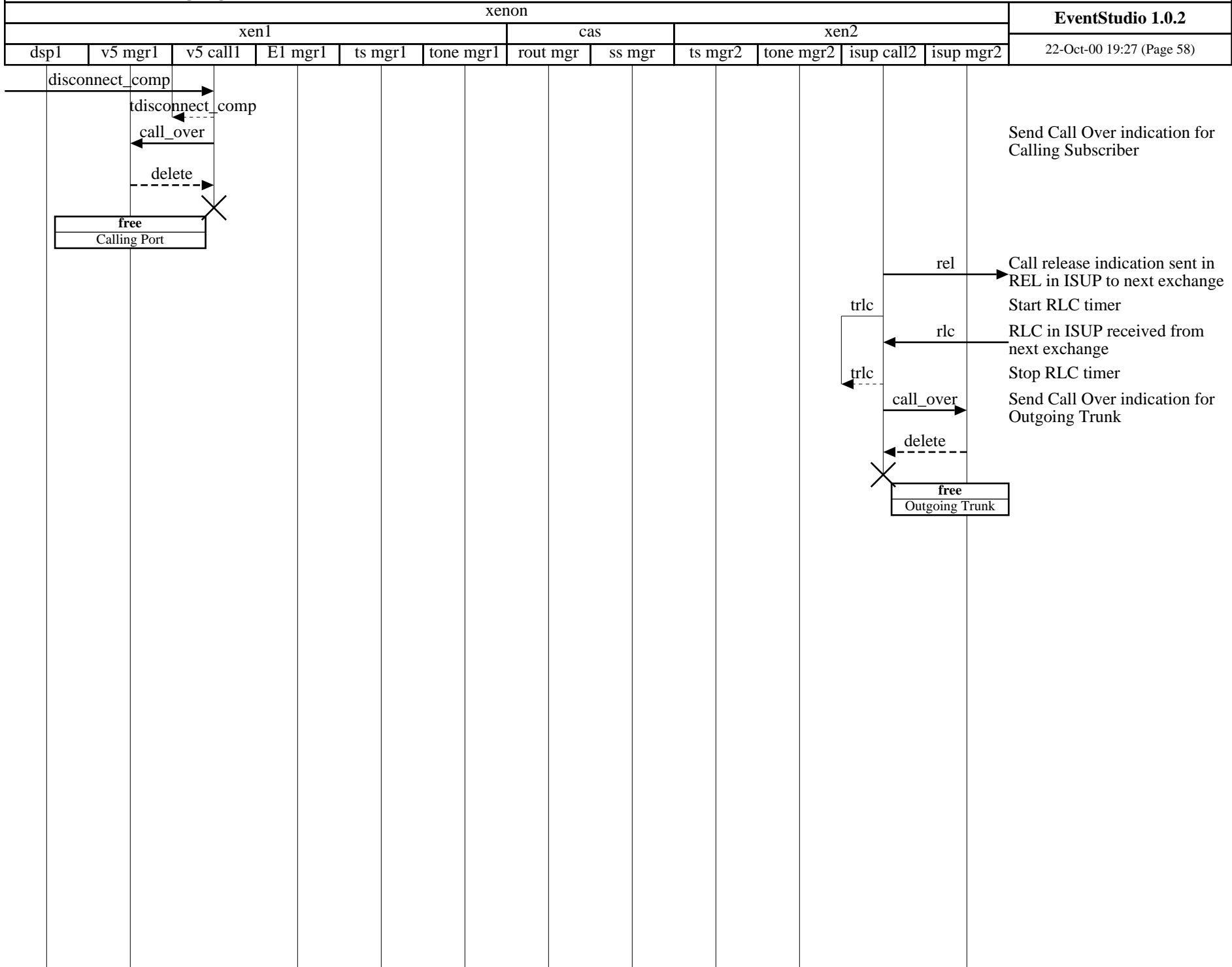
Indicate Release to Outgoing XEN

Indicate E1 timeslot freed towards Calling Subscriber  
 Send E1 Slot Release Request

**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Successful call)**

**EventStudio 1.0.2**

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**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Outgoing call failed)**

xenon

**EventStudio 1.0.2**

xen1

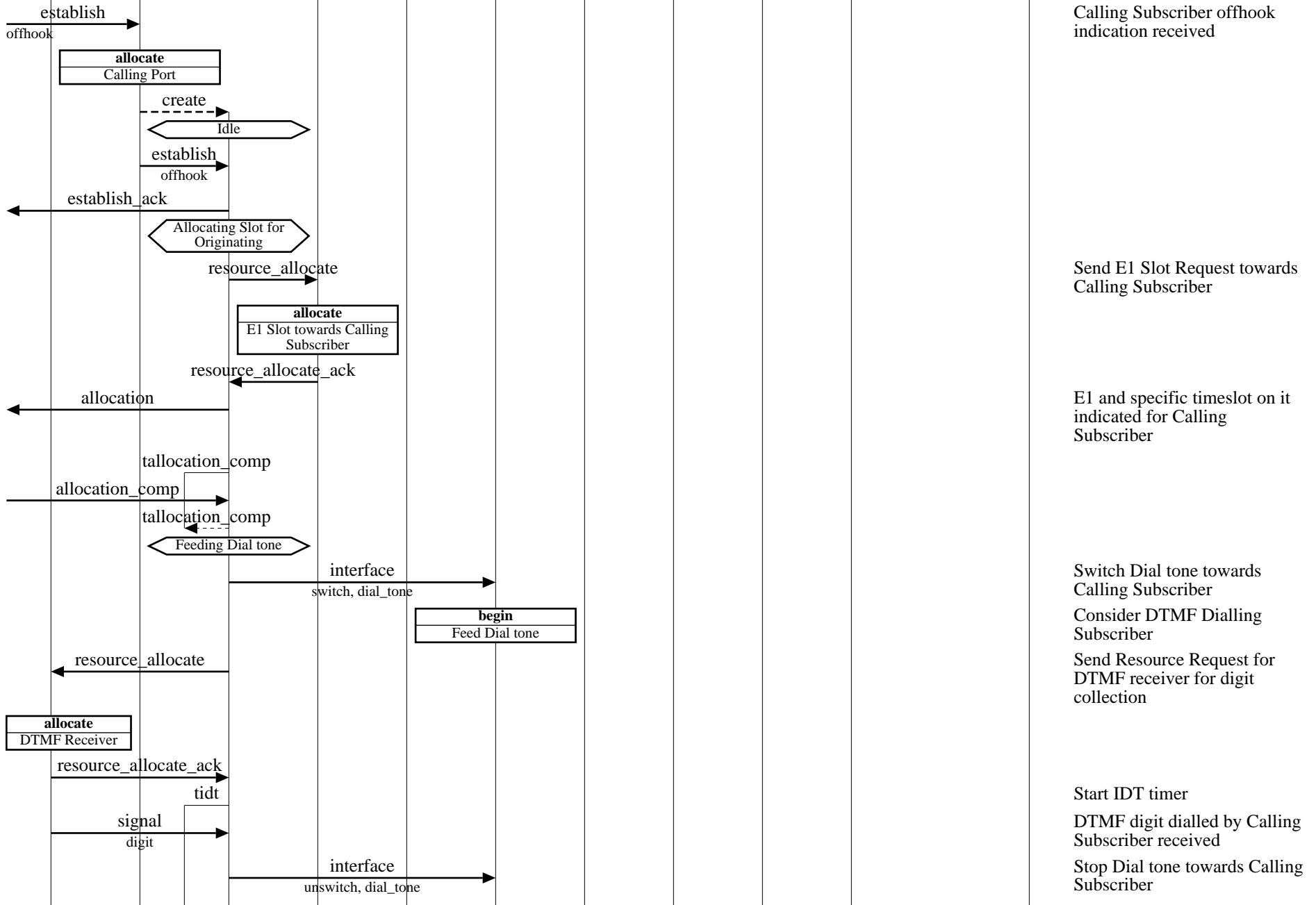
cas

xen2

dsp1 | v5 mgr1 | v5 call1 | E1 mgr1 | ts mgr1 | tone mgr1 | rout mgr | ss mgr | ts mgr2 | tone mgr2 | isup call2 | isup mgr2

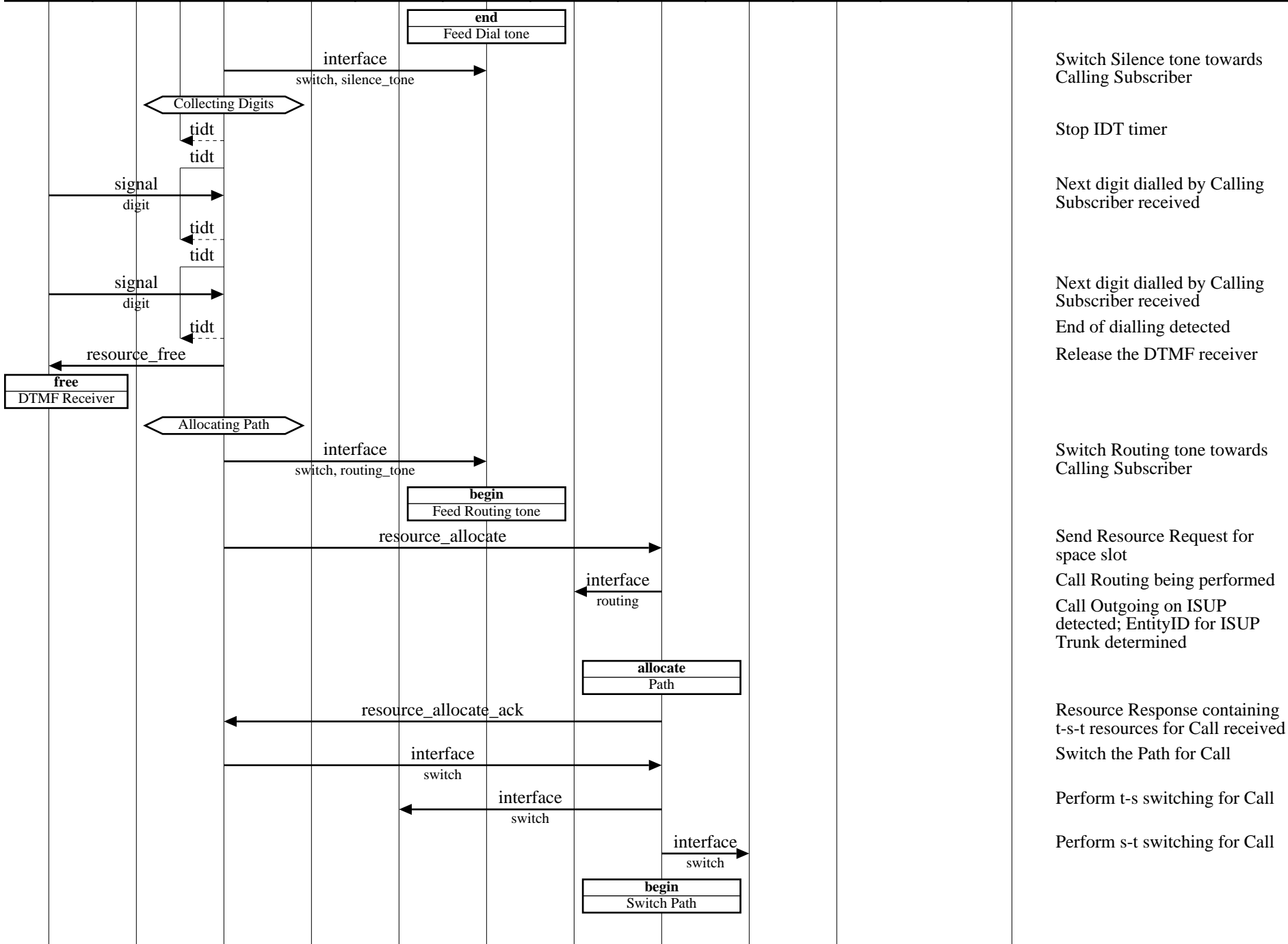
22-Oct-00 19:27 (Page 59)

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**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Outgoing call failed)**

xenon										<b>EventStudio 1.0.2</b>		
xen1					cas		xen2					
dsp1	v5 mgr1	v5 call1	E1 mgr1	ts mgr1	tone mgr1	rout mgr	ss mgr	ts mgr2	tone mgr2	isup call2	isup mgr2	22-Oct-00 19:27 (Page 60)



Switch Silence tone towards Calling Subscriber

Stop IDT timer

Next digit dialled by Calling Subscriber received

Next digit dialled by Calling Subscriber received

End of dialling detected

Release the DTMF receiver

Switch Routing tone towards Calling Subscriber

Send Resource Request for space slot

Call Routing being performed

Call Outgoing on ISUP detected; EntityID for ISUP Trunk determined

Resource Response containing t-s-t resources for Call received  
Switch the Path for Call

Perform t-s switching for Call

Perform s-t switching for Call

**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Outgoing call failed)**

xenon

EventStudio 1.0.2

xen1

cas

xen2

dsp1 | v5 mgr1 | v5 call1 | E1 mgr1 | ts mgr1 | tone mgr1 | rout mgr | ss mgr | ts mgr2 | tone mgr2 | isup call2 | isup mgr2

22-Oct-00 19:27 (Page 61)

Awaiting Called Status

call\_request

Send Call Request to Outgoing XEN

allocate  
Outgoing Trunk

create  
call\_request

call\_request\_ack

iam

IAM with ST condition in ISUP sent to next exchange  
Stop Routing tone towards Calling Subscriber

interface

unswitch, routing\_tone

end  
Feed Routing tone

Awaiting Answer

interface

switch, ring\_back\_tone

begin  
Feed Ring back tone

Switch Ring back tone towards Calling Subscriber

tacm

Start ACM timer

crg

Charging info received in ISUP signalling from next exchange

crg

**LEG: Outgoing call failed**

rel

REL in ISUP due to Called Subscriber being busy received from next exchange

rlc

RLC in ISUP sent to next exchange

tacm

Stop ACM timer

call\_release

interface

unswitch, ring\_back\_tone

end  
Feed Ring back tone

Stop Ring back tone towards Calling Subscriber

Releasing Path, Congestion tone to be fed

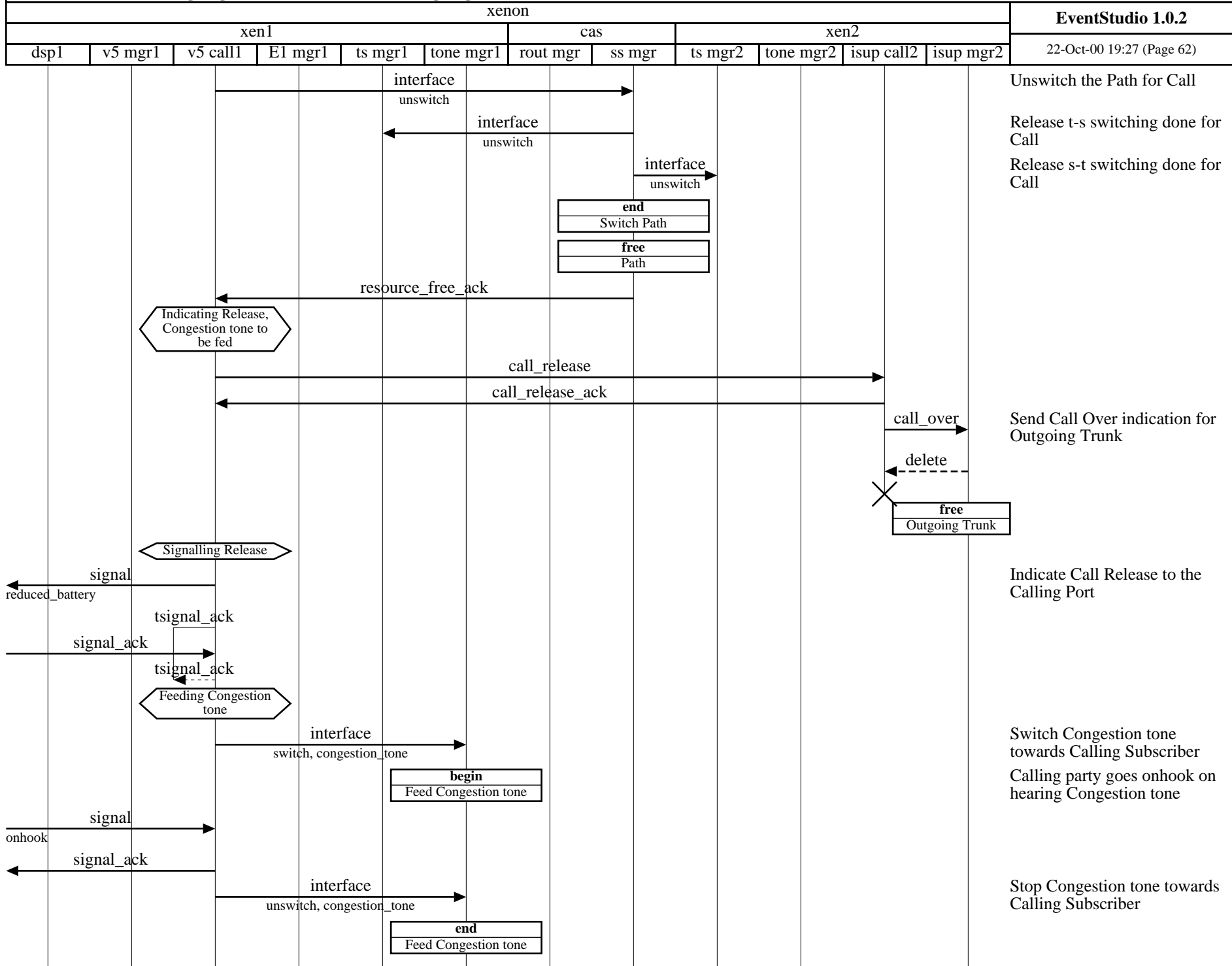
resource\_free

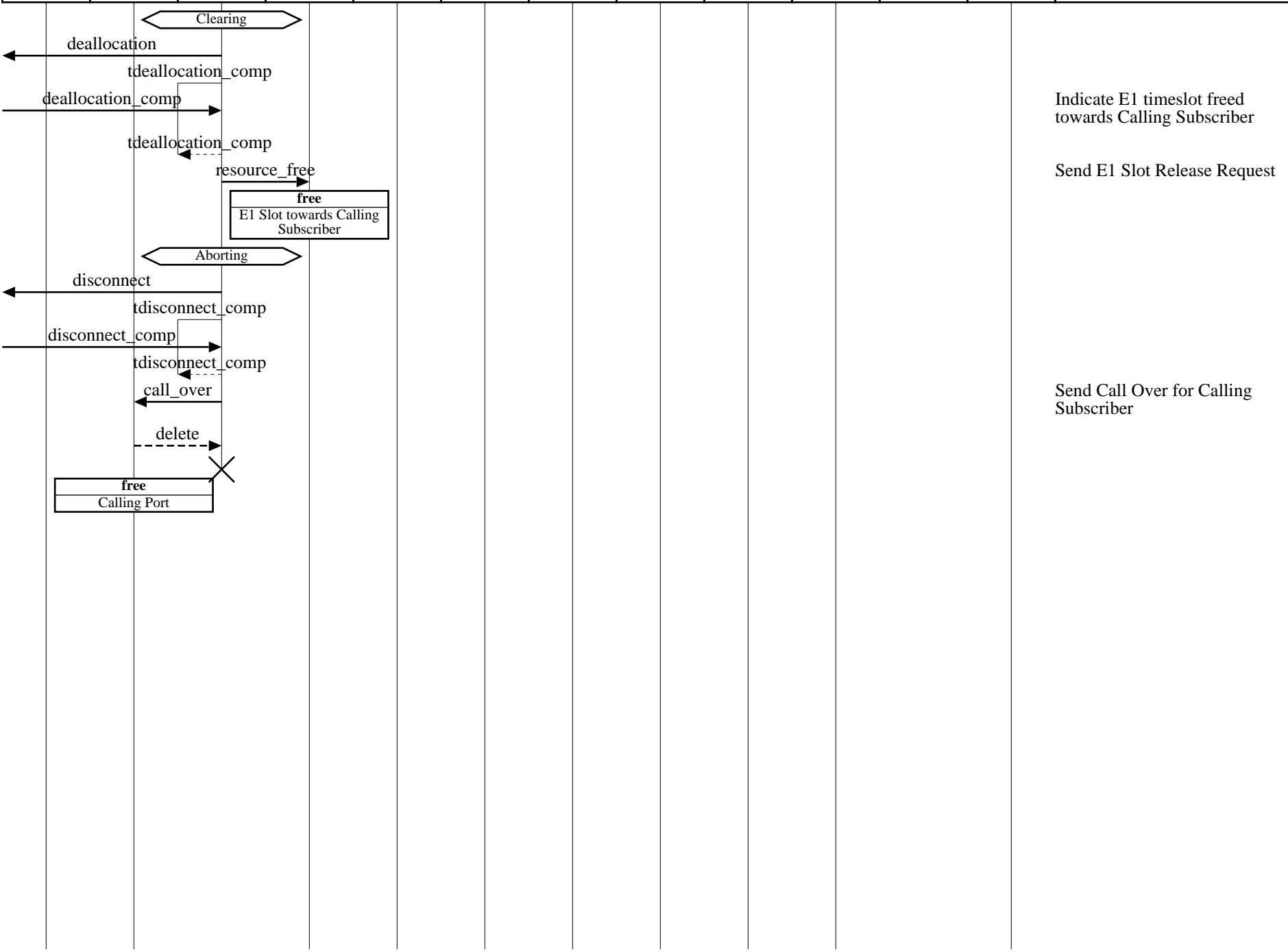
Release t-s-t resources allocated for Call

**Xenon Switch Call Outgoing on ISUP (V5.2 - ISUP: Outgoing call failed)**

**EventStudio 1.0.2**

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Indicate E1 timeslot freed towards Calling Subscriber

Send E1 Slot Release Request

Send Call Over for Calling Subscriber