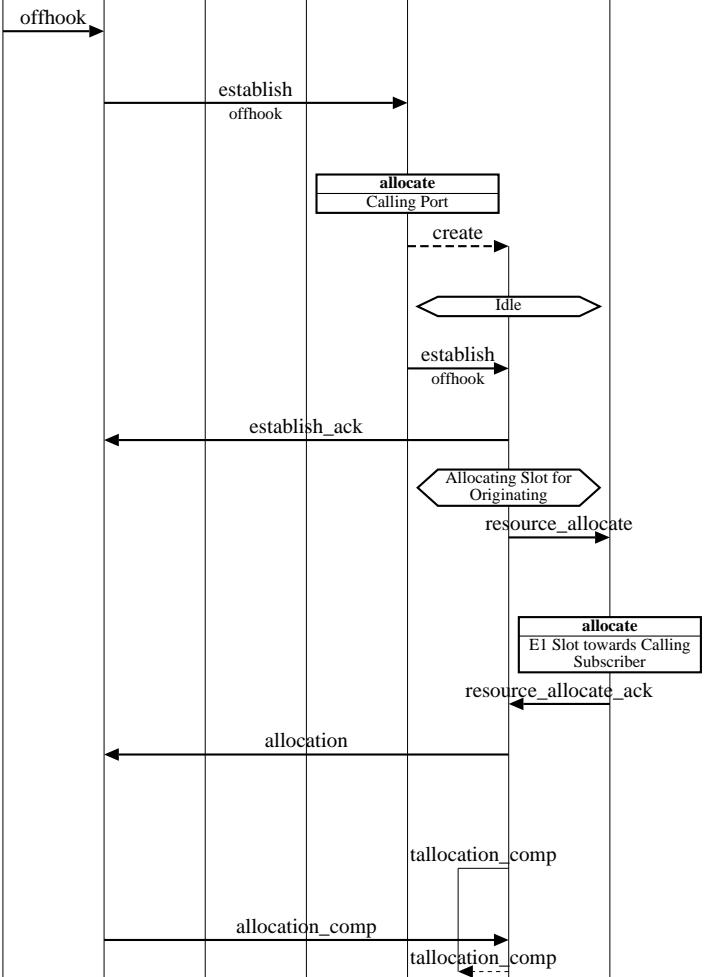


V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																	
subscriber 1	access network 1	switching system											access network 2	subscriber 2	EventHelix.com/EventStudio 1.5		
sub 1	v52 AN 1	call handler 1					central processor			call handler 2					v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2	30-May-02 23:11 (Page 1)

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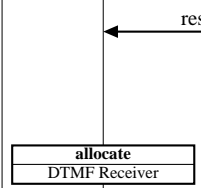
V5.2 calling subscriber goes offhook



V5.2 calling subscriber offhook indication received in the access network
 V5.2 calling subscriber offhook indication received by the switching system in establish message
 Resource, calling port is allocated for the call
 Call manager creates originating V5.2 call object to handle the call
 The initial state of V5.2 call is set to idle
 V5.2 calling subscriber offhook indication is passed to V5.2 call in establish message
 Establish ack is sent to the V5.2 access network

Request for E1 Slot towards calling subscriber is sent
LEG: E1 slot available for V5.2 Subscriber
 Resource E1 Slot is allocated towards V5.2 calling subscriber
 E1 and timeslot allocation is passed to the V5.2 access network. The allocation message is used for this purpose
 V5.2 call awaits allocation complete message from access network
 Allocation complete is received

Voice path is established between the subscriber and the switch. Now the switch prepares for collecting digits from the subscriber.



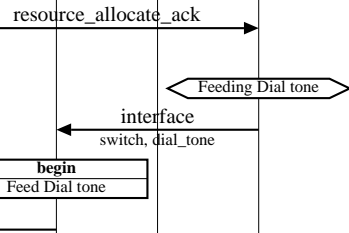
LEG: DTMF Dialling Subscriber
 DTMF receiver needs to be configured to receive DTMF digits dialled by the subscriber. Send resource request to DTMF receiver for digit collection

V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																
subscriber 1	access network 1	switching system												access network 2	subscriber 2	
sub 1	v52 AN 1	call handler 1					central processor			call handler 2				v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2

Resource, DTMF receiver is allocated for the originating V5.2 call

Request to switch dial tone towards V5.2 calling subscriber

Dial tone feed is passed directly to the subscriber via the voice path

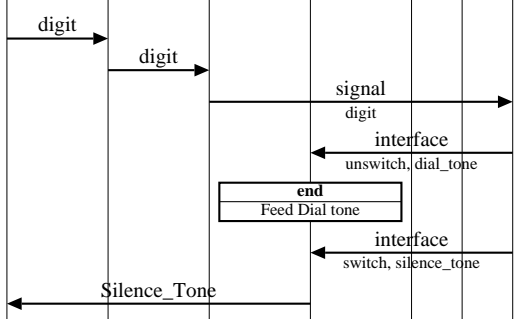


Dial tone is being fed to the V5.2 calling subscriber

LEG: Complete Dialling
 Originating V5.2 call awaits digits by starting IDT timer (Inter Digit Timer)



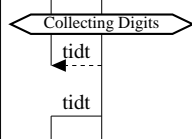
V5.2 calling subscriber dials first digit



DTMF digit dialled by V5.2 calling subscriber received
 Stop dial tone towards V5.2 calling subscriber

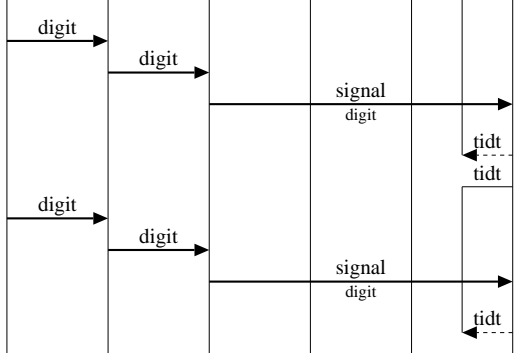
Switch silence tone towards V5.2 calling subscriber
 Silence tone feed is passed directly to the subscriber via the voice path

Silence tone is being fed to the V5.2 calling subscriber



Stop IDT timer upon receipt of dialled digit
 Start IDT timer to await receipt of next digit

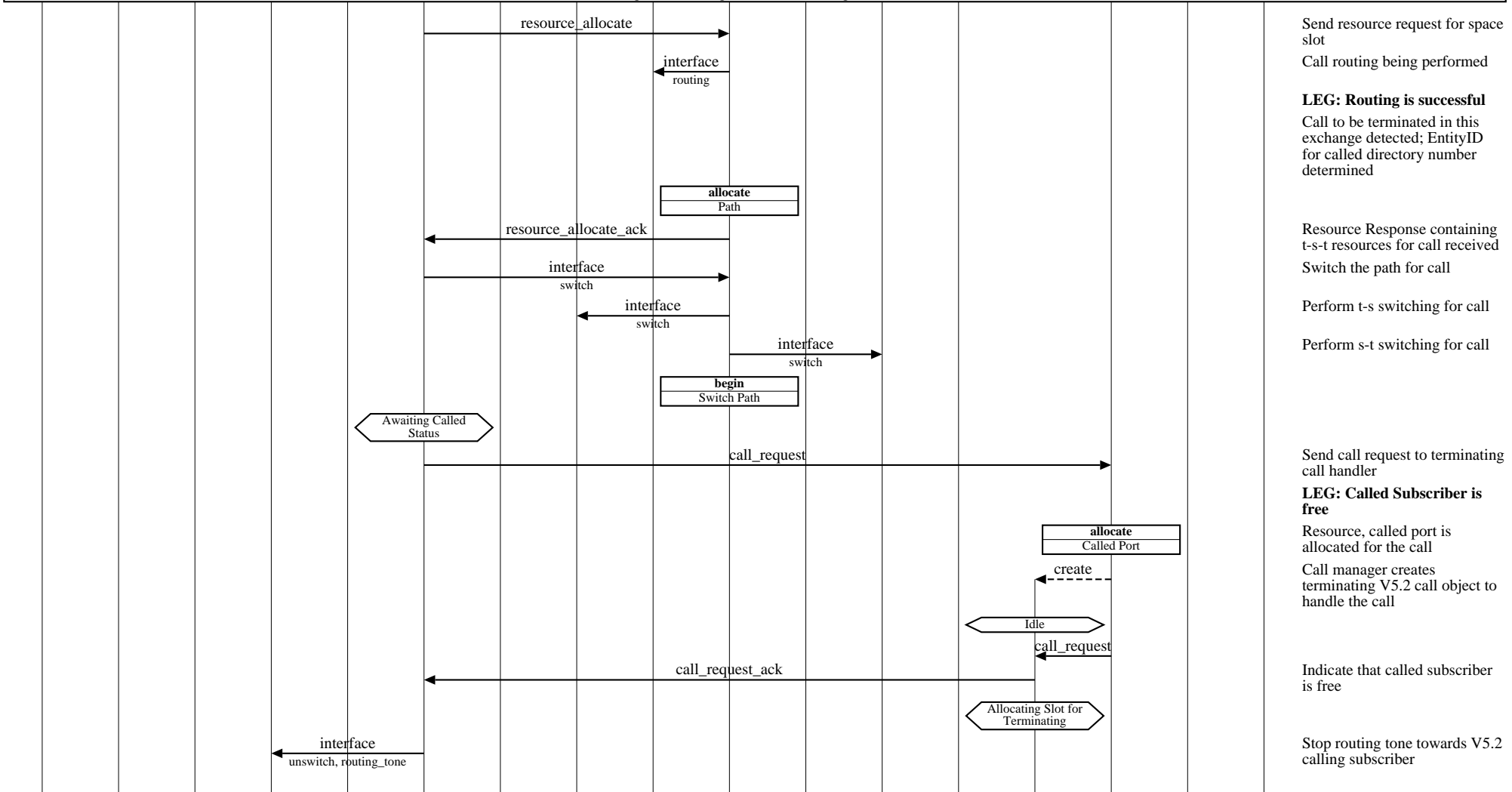
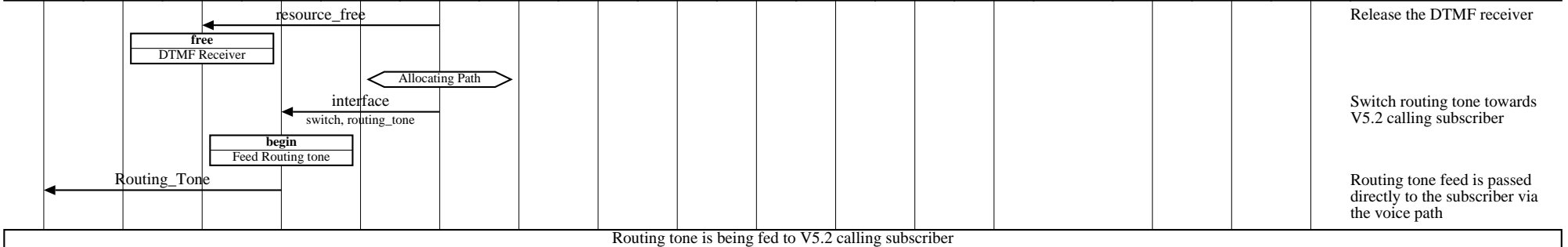
V5.2 calling subscriber dials next digit



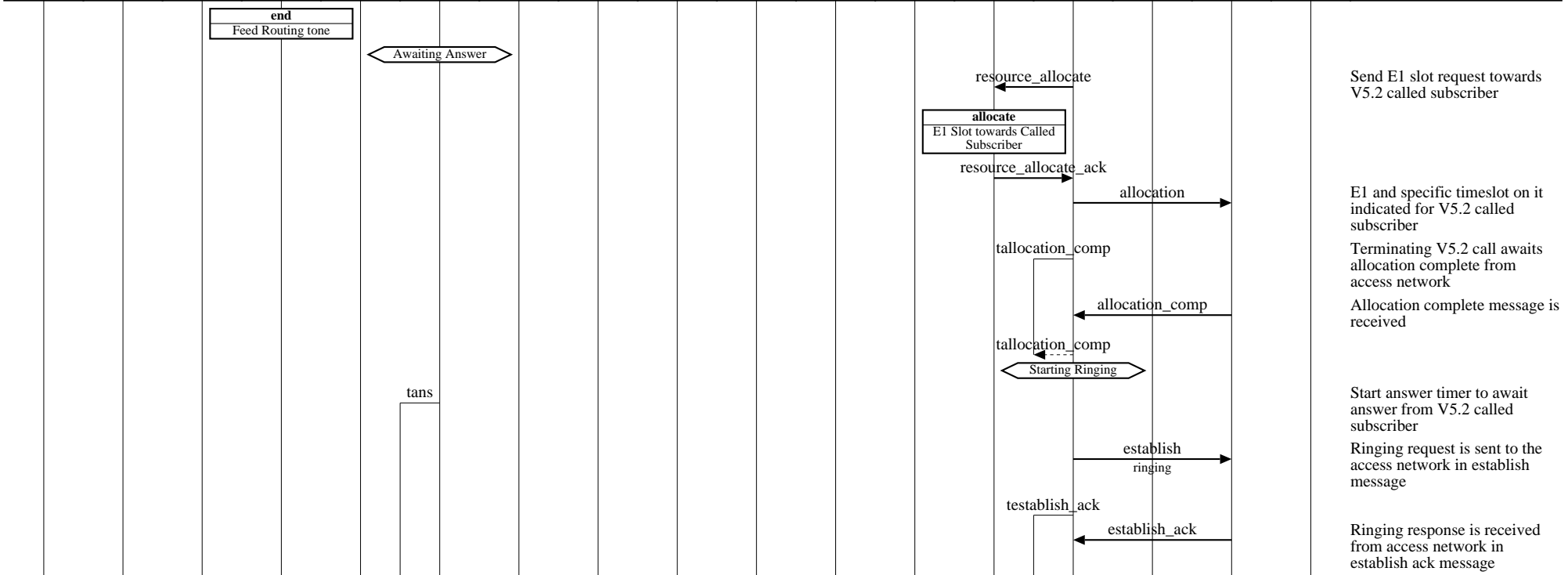
Next digit dialled by V5.2 calling subscriber received

Next digit dialled by V5.2 calling subscriber received
 End of dialling detected by originating V5.2 call

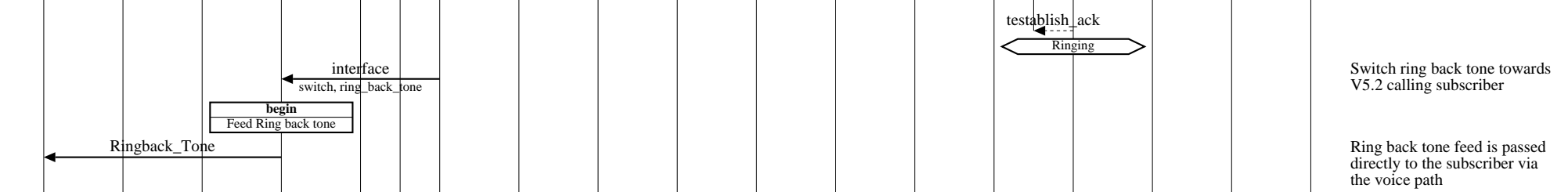
V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																
subscriber 1	access network 1	switching system												access network 2	subscriber 2	
sub 1	v52 AN 1	call handler 1					central processor		call handler 2					v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2
EventHelix.com/EventStudio 1.5																
30-May-02 23:11 (Page 3)																



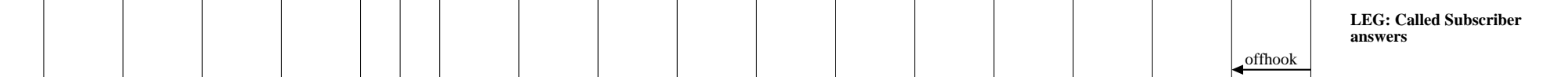
V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																	
subscriber 1	access network 1	switching system											access network 2	subscriber 2	EventHelix.com/EventStudio 1.5		
sub 1	v52 AN 1	call handler 1					central processor			call handler 2					v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2	30-May-02 23:11 (Page 4)



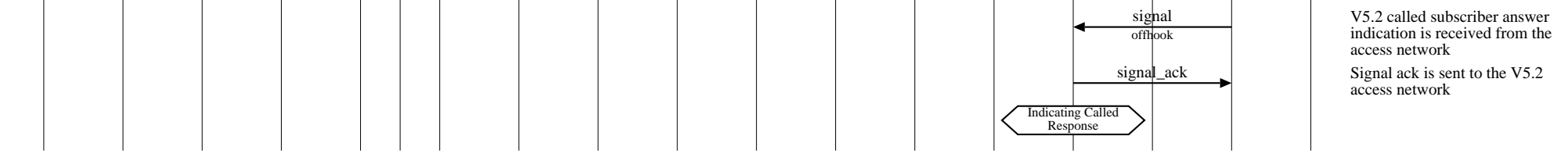
V5.2 called subscriber is being rung



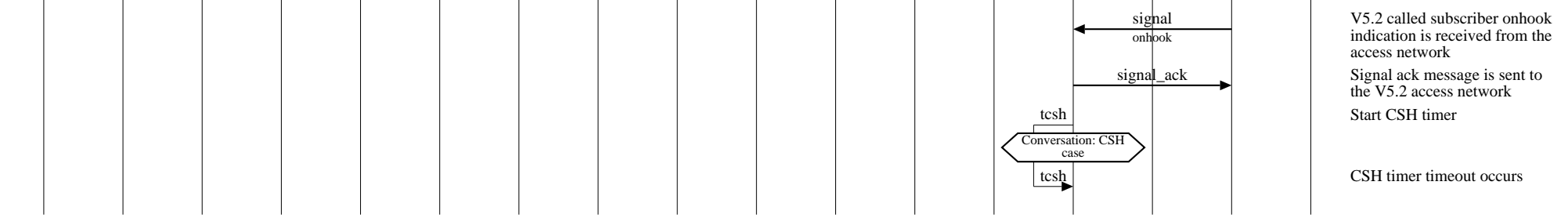
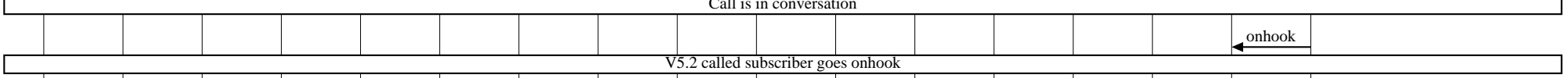
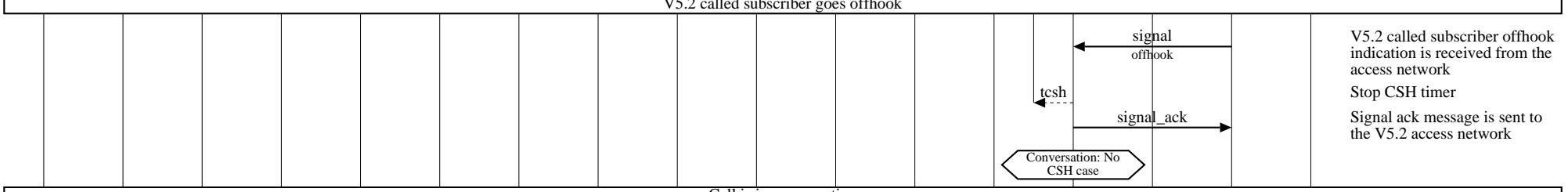
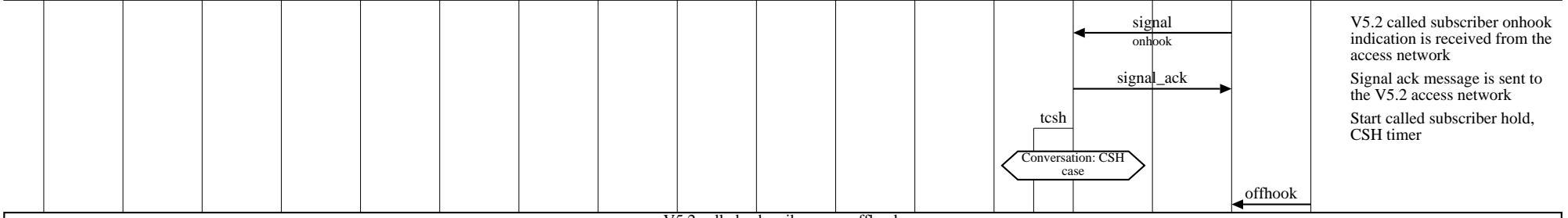
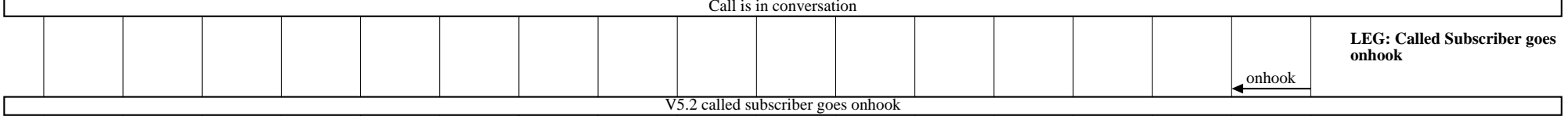
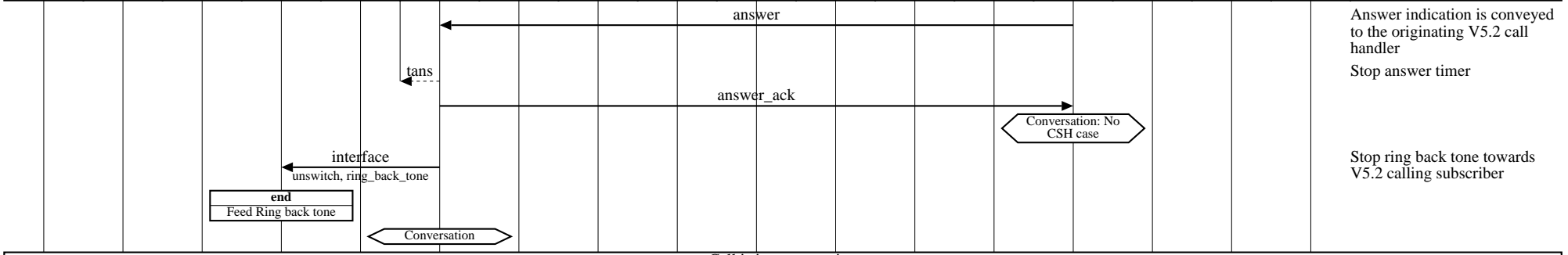
Ring back tone is being fed to the V5.2 calling subscriber



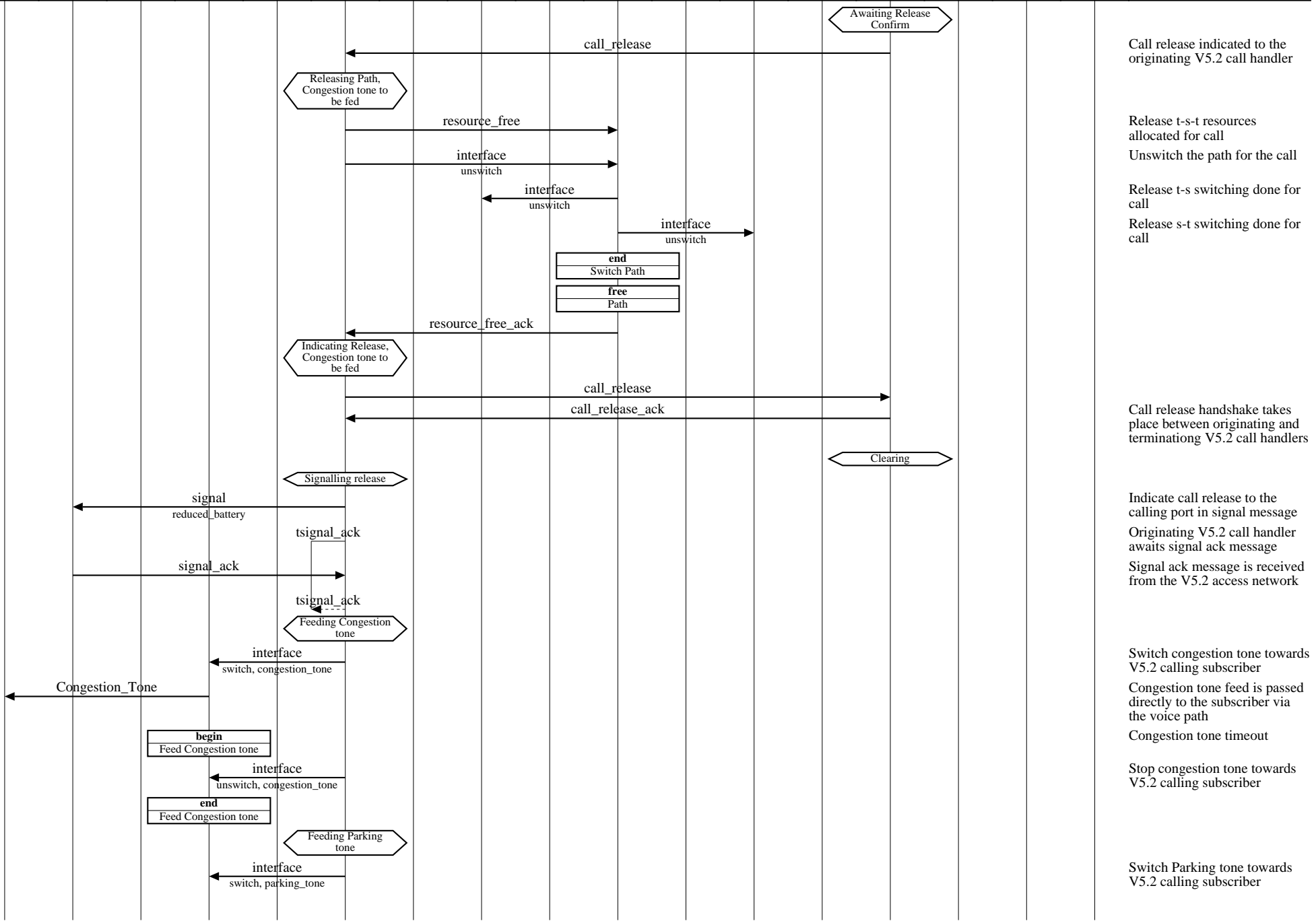
V5.2 called subscriber answers the call



V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																	
subscriber 1	access network 1	switching system												access network 2	subscriber 2	EventHelix.com/EventStudio 1.5	
sub 1	v52 AN 1	call handler 1					central processor			call handler 2					v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2	30-May-02 23:11 (Page 5)



V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																		
subscriber 1	access network 1	switching system												access network 2	subscriber 2	EventHelix.com/EventStudio 1.5		
sub 1	v52 AN 1	call handler 1					central processor				call handler 2					v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2	30-May-02 23:11 (Page 6)	



Call release indicated to the originating V5.2 call handler

Release t-s-t resources allocated for call
Unswitch the path for the call

Release t-s switching done for call
Release s-t switching done for call

Call release handshake takes place between originating and terminating V5.2 call handlers

Indicate call release to the calling port in signal message
Originating V5.2 call handler awaits signal ack message
Signal ack message is received from the V5.2 access network

Switch congestion tone towards V5.2 calling subscriber
Congestion tone feed is passed directly to the subscriber via the voice path
Congestion tone timeout

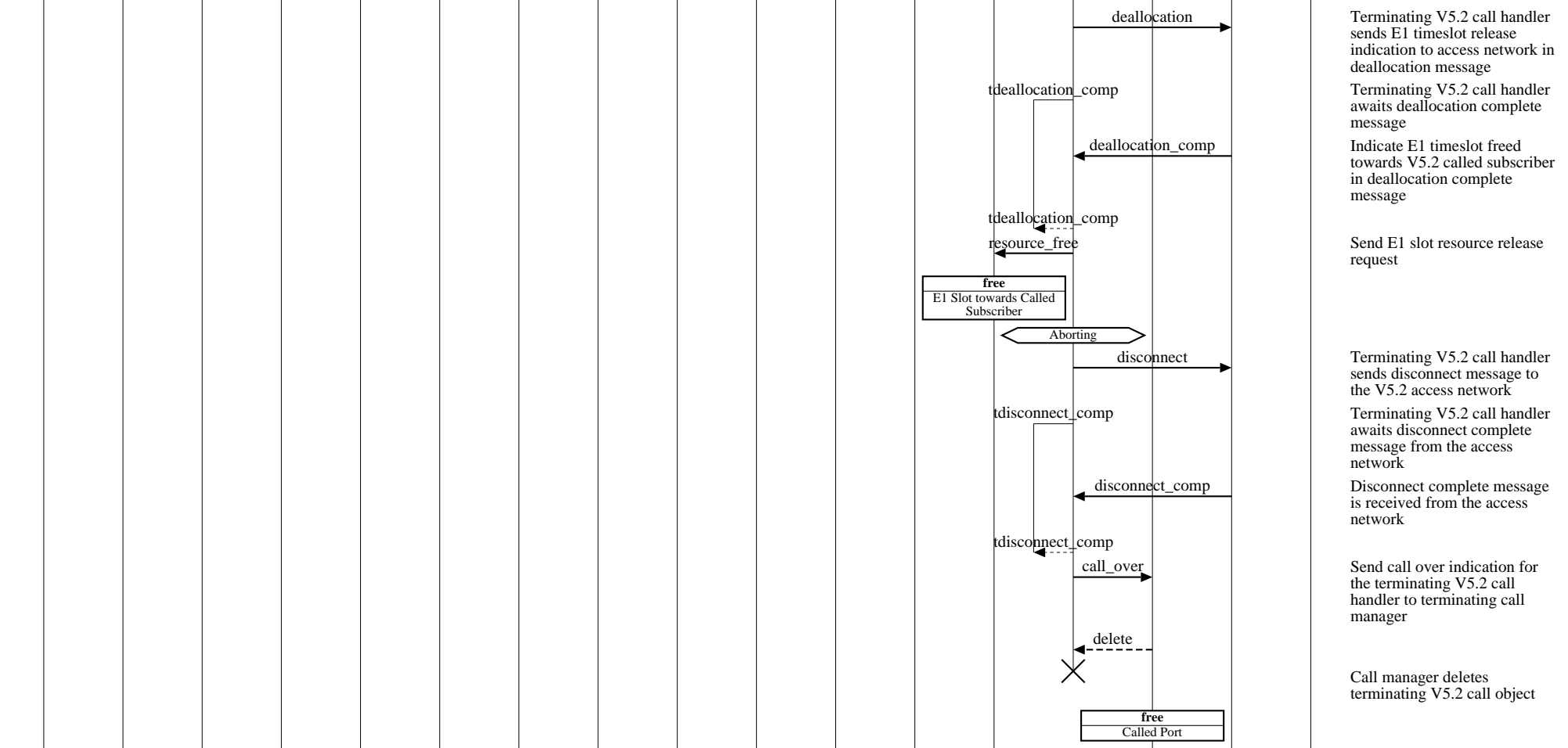
Stop congestion tone towards V5.2 calling subscriber

Switch Parking tone towards V5.2 calling subscriber

V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																	
subscriber 1	access network 1	switching system											access network 2	subscriber 2	EventHelix.com/EventStudio 1.5		
sub 1	v52 AN 1	call handler 1					central processor			call handler 2					v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2	30-May-02 23:11 (Page 7)



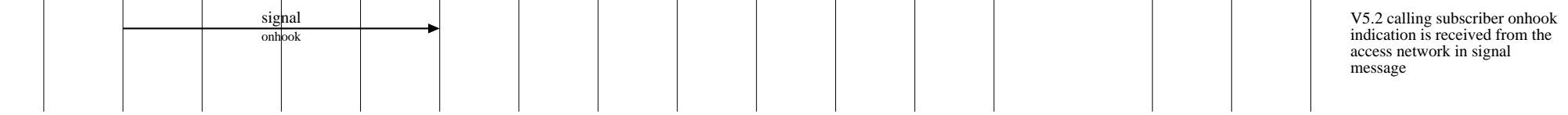
Parking tone is being fed to the V5.2 calling subscriber



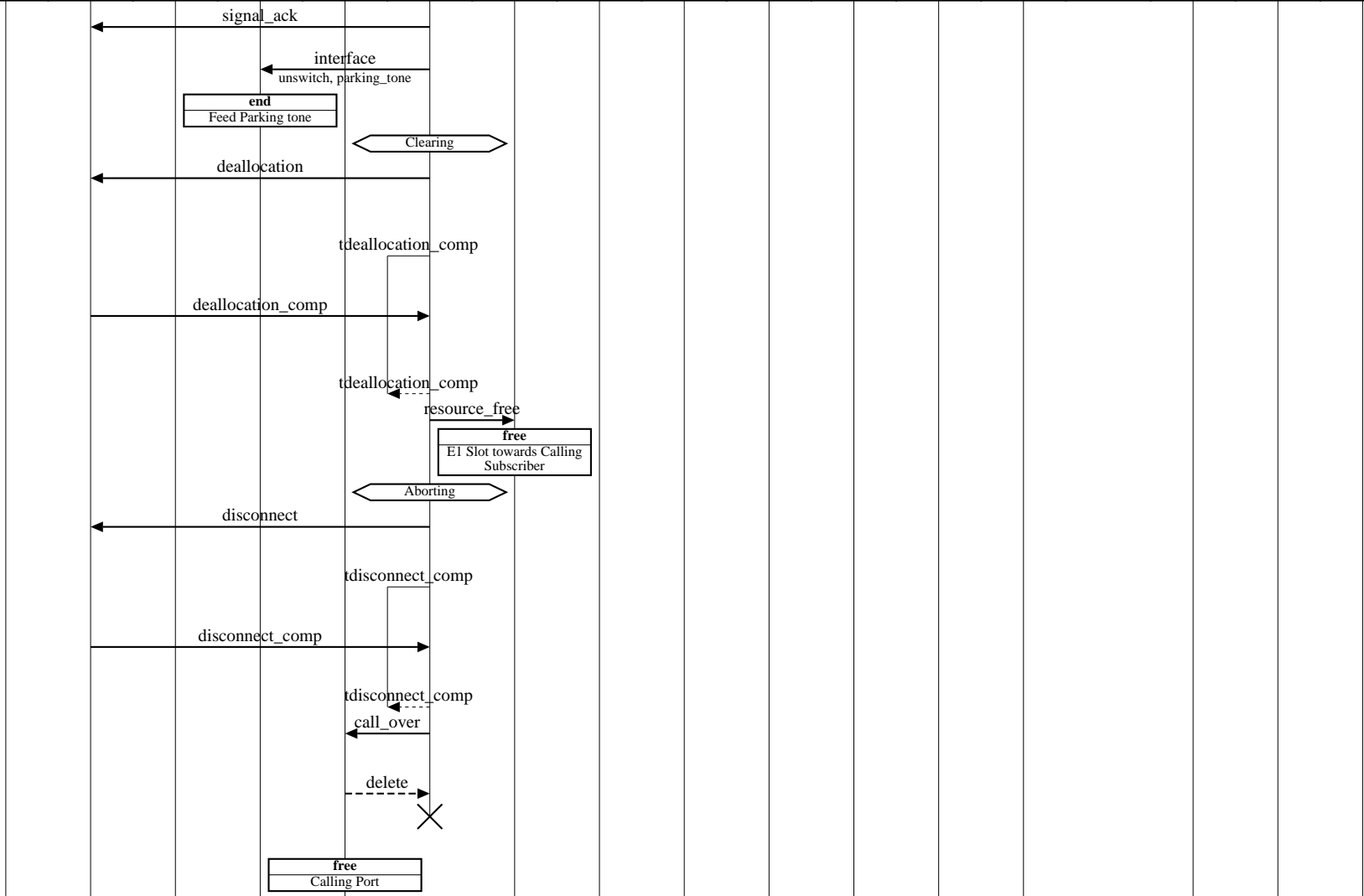
The terminating V5.2 subscriber port is free for another originating or terminating call



Calling Subscriber goes onhook on hearing Parking tone



V5.2 Originated and V5.2 Terminated Call (V5.2 to V5.2 Call -- DTMF, Called Subscriber Goes Onhook)																
subscriber 1	access network 1	switching system												access network 2	subscriber 2	
sub 1	v52 AN 1	call handler 1				central processor				call handler 2				v52 AN 2	sub 2	
sub 1	v52 AN 1	dsp 1	tone manager 1	call manager 1	v52 call 1	E1 allocator 1	time slot allocator 1	routing manager	space slot allocator	tone manager 2	time slot allocator 2	E1 allocator 2	v52 call 2	call manager 2	v52 AN 2	sub 2



Signal ack message is sent to the V5.2 access network
Stop Parking tone towards V5.2 calling subscriber

Originating V5.2 call handler sends deallocation message to indicate E1 slot release indication to access network
Originating V5.2 call object awaits deallocation complete message
Indicate E1 timeslot freed towards V5.2 calling subscriber in deallocation complete message

Send E1 slot release request

Originating V5.2 call object sends disconnect message to access network
Originating V5.2 call object awaits disconnect complete message
Disconnect complete message is received from V5.2 access network

Send call over indication for originating V5.2 call to originating call manager

Call manager deletes originating V5.2 call object

The originating V5.2 subscriber port is free for another originating or terminating call