

jUCMNav Report



<http://softwareengineering.ca/jucmnav>

Title:	SimplePhoneSystem-WithFI
URN Model Name:	URNspec
Description:	
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UCM Scenario Groups documentation

- BasicCall:
 1. BCsuccess: Normal scenario, no feature, successful ringing
 2. BCbusy
- OCS:
 1. OCSsuccess
 2. OCSbusy
 3. OCSdenied
- CND:
 1. CNDdisplay
 2. CNDbusy
- TeenLine:
 1. TLnotActiveSuccess
 2. TLActiveSuccess
 3. TLActiveTimeOut
 4. TLActiveInvalidPIN
 5. TLActiveBusy
 6. TLnotActiveBusy
- FI_OCS_CND:
 1. OCS_CND_display
 2. OCS_CND_busy
 3. OCS_CND_OnList
- FI_TL_CND:
 1. BasicDefinitions: Initial start point, initial values, no end point. Do not run.
 2. TL_CND_NotActiveDisplay
 3. TL_CND_ActiveDisplay
 4. TL_CND_TimeOut
 5. TL_CND_InvalidPIN
 6. TL_CND_NotActiveBusy
 7. TL_CND_ActiveBusy
- FI_OCS_TL:
 1. Scenario2732

Variables

1. Busy (boolean): The terminating party is busy
2. OnOCSlist (boolean): The terminating party is on the OCS filtering list
3. PINvalid (boolean): The TeenLine PIN provided is valid
4. TLactive (boolean): TeenLine is active at this time
5. SubCND (boolean): The terminator is subscribed to CND
6. SubOCS (boolean): The originator is subscribed to OCS
7. SubTL (boolean): The originator is subscribed to TeenLine

CND

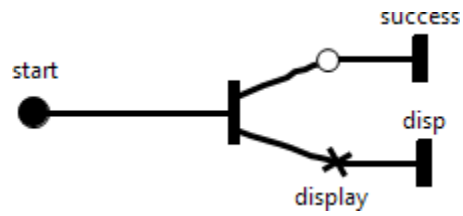


Figure 1 - CND

Description

Call Name Delivery feature. Displays the originator's info on the terminator's device.

Responsibilities

display: Displays the originator's number.

TerminatingFeatures

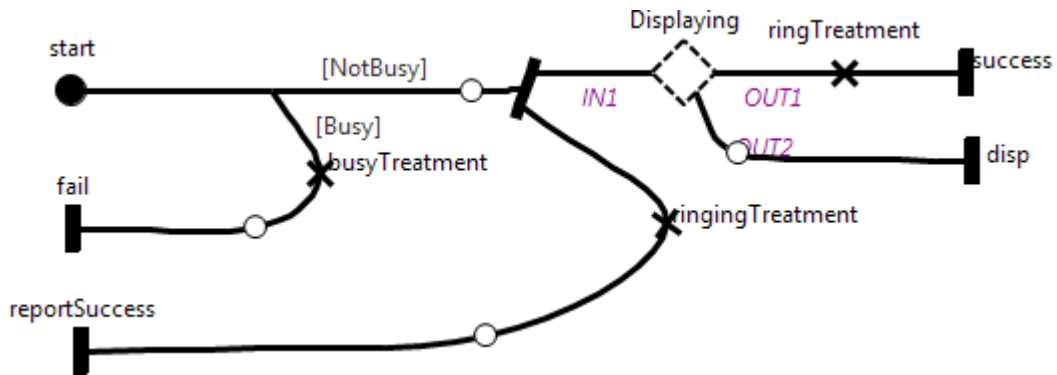


Figure 2 - TerminatingFeatures

Description

Handles the terminating features, including the basing ringing of the device.

Responsibilities

ringingTreatment: This user is available. Prepares the ringback signal.

busyTreatment: This user is busy and cannot answer. Prepares busy signal.

ringTreatment: Prepares the ring signal

Stubs

Dynamic Stub - Displaying

Plugin Map - Default

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> continue

Precondition:

Expression: !SubCND

Transaction: false

Probability: 1.0

Plugin Map - CND

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> success

OUT 2 <-> disp

Precondition:

Expression: SubCND

Transaction: false

Probability: 1.0

Or Fork Description

[NotBusy] ==> !Busy (probability: 1.0)

[Busy] ==> Busy (probability: 1.0)

OriginatingFeatures

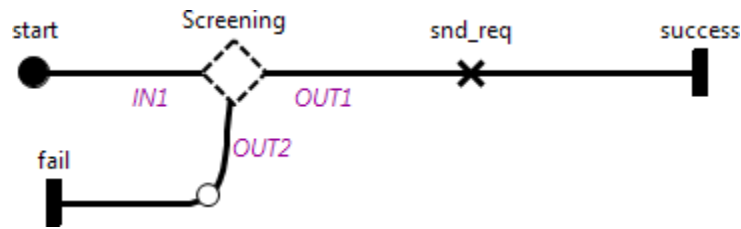


Figure 3 - OriginatingFeatures

Description

Handles the originating features. Sends the request to the terminating agent, if allowed to

Responsibilities

snd_req: Send the connection request to the terminating agent.

Stubs

Dynamic Stub - Screening: Screening function stub

Plugin Map - Default

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> continue

Precondition:

Expression: !(SubOCS || SubTL)

Transaction: false

Probability: 1.0

Plugin Map - OCS

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> success

OUT 2 <-> fail

Precondition:

Expression: SubOCS

Transaction: false

Probability: 1.0

Plugin Map - TeenLine

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> success

OUT 2 <-> fail

Precondition:

Expression: SubTL

Transaction: false

Probability: 1.0

OCS

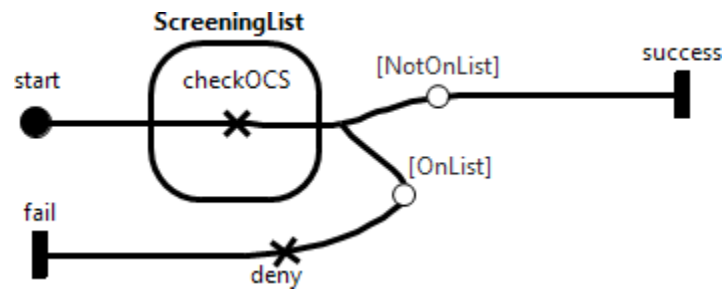


Figure 4 - OCS

Description

Originating Call Screening. Checks a filtering list to determine whether the connection should be denied.

Responsibilities

checkOCS: Checks whether the terminator is on the originator's screening list

deny: Denies the connection

Or Fork Description

[NotOnList] ==> !OnOCSlist (probability: 1.0)

[OnList] ==> OnOCSlist (probability: 1.0)

TeenLine

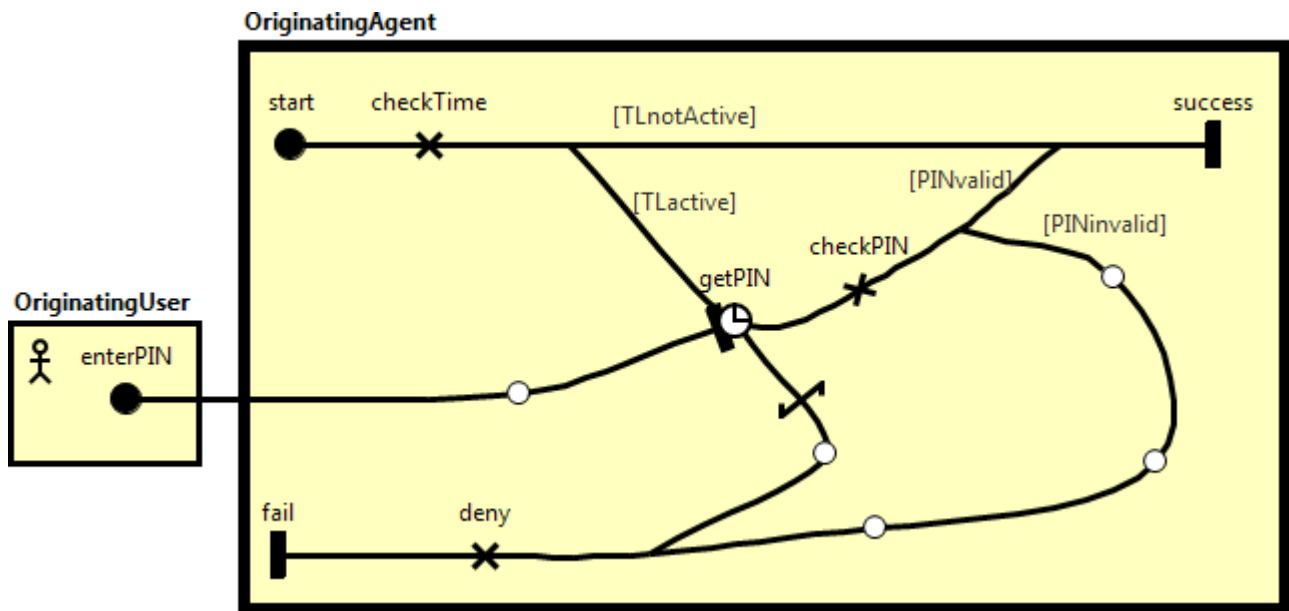


Figure 5 - TeenLine

Description

TeenLine denies a connection when attempted during a predefined time range (ex. between 7pm and 6am), unless a valid PIN is provided in a timely fashion

Responsibilities

checkTime: Checks that TeenLine is active, i.e. that the connection is in the pre-defined time range

checkPIN: Checks whether the PIN is valid

deny: Denies the connection

Or Fork Description

[TLnotActive] ==> !TLactive (probability: 1.0)

[TLactive] ==> TLactive (probability: 1.0)

[PINinvalid] ==> PINinvalid (probability: 1.0)

[PINinvalid] ==> !PINinvalid (probability: 1.0)

Default

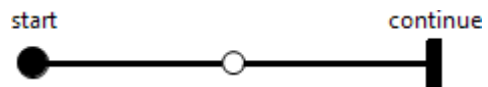


Figure 6 - Default

Description

Default behaviour that can be overridden

SimpleConnection

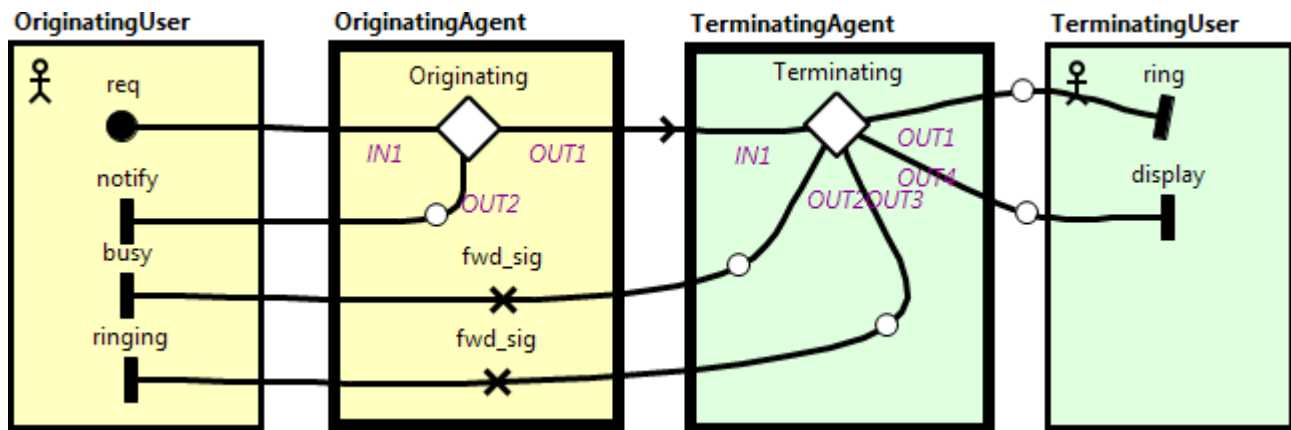


Figure 7 - SimpleConnection

Description

Call connection model. An originating user attempts a connection to a terminating user. Both users have their own agent, which handles their features.

Responsibilities

fwd_sig: Forwards any signal received from other agents

fwd_sig: Forwards any signal received from other agents

Stubs

Static Stub - Originating: Originating Features Stub

Plugin Map - OriginatingFeatures

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> success

OUT 2 <-> fail

Precondition:

Expression: true

Transaction: false

Probability: 1.0

Static Stub - Terminating: Terminating Features Stub

Plugin Map - TerminatingFeatures

Input Bindings:

IN 1 <-> start

Output Bindings:

OUT 1 <-> success

OUT 2 <-> fail

OUT 3 <-> reportSuccess

OUT 4 <-> disp

Precondition:

Expression: true

Transaction: false

Probability: 1.0

Start Point

req: A call request to a terminating party is done

End Points

ring: A call request is announced

display: The originator's information is displayed

Scenario Documentation

Scenario Execution Summary

Group BasicCall (ID:5)

Scenario	Result	Message(s)
BCsuccess (ID: 6)	PASSED	
BCbusy (ID: 2416)	PASSED	

Group OCS (ID:2418)

Scenario	Result	Message(s)
OCSsuccess (ID: 2419)	PASSED	
OCSbusy (ID: 2420)	PASSED	
OCSdenied (ID: 2421)	PASSED	

Group CND (ID:2423)

Scenario	Result	Message(s)
CNDdisplay (ID: 2424)	PASSED	
CNDbusy (ID: 2425)	PASSED	

Group TeenLine (ID:2426)

Scenario	Result	Message(s)
TLnotActiveSuccess (ID: 2427)	PASSED	
TActiveSuccess (ID: 2428)	PASSED	
TActiveTimeOut (ID: 2429)	PASSED	
TActiveInvalidPIN (ID: 2430)	PASSED	
TActiveBusy (ID: 2431)	PASSED	
TLnotActiveBusy (ID: 2432)	PASSED	

Group FI_OCS_CND (ID:2433)

Scenario	Result	Message(s)
OCS_CND_display (ID: 2434)	PASSED	
OCS_CND_busy (ID: 2435)	PASSED	
OCS_CND_OnList (ID: 2436)	PASSED	

Group FI_TL_CND (ID:2437)

Scenario	Result	Message(s)
BasicDefinitions (ID: 2438)	PASSED	

TL_CND_NotActiveDisplay (ID: 2439)	PASSED	
TL_CND_ActiveDisplay (ID: 2440)	PASSED	
TL_CND_TimeOut (ID: 2441)	PASSED	
TL_CND_InvalidPIN (ID: 2442)	PASSED	
TL_CND_NotActiveBusy (ID: 2443)	PASSED	
TL_CND_ActiveBusy (ID: 2444)	PASSED	

Group FI_OCS_TL (ID:2445)

Scenario	Result	Message(s)
Scenario2732 (ID: 2732)	FAILED	Traversal has multiple alternatives at Stub "Screening (1049)". Taking first option to remain deterministic.
		Race condition symptom: connected path arrived at a non-blocked path.

Scenario Information

Group BasicCall (ID: 5)

Scenario BCsuccess (ID: 6)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false

Scenario End Point(s):

ring (ID: 32): A call request is announced

ringing (ID: 953)

Scenario BCbusy (ID: 2416)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
SubCND	2058	The terminator is subscribed to CND	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	false

SubTL	2060	The originator is subscribed to TeenLine	boolean	false
Busy	2054	The terminating party is busy	boolean	true

Scenario End Point(s):

busy (ID: 933)

Group OCS (ID: 2418)

Scenario OCSsuccess (ID: 2419)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
SubOCS	2059	The originator is subscribed to OCS	boolean	true
SubTL	2060	The originator is subscribed to TeenLine	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false
Busy	2054	The terminating party is busy	boolean	false
OnOCSlist	2055	The terminating party is on the OCS filtering list	boolean	false

Scenario OCSbusy (ID: 2420)

Included UCM Scenario(s):

Scenario OCSsuccess (ID: 2419)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value

Busy	2054	The terminating party is busy	boolean	true
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Scenario OCSdenied (ID: 2421)

Included UCM Scenario(s):

Scenario OCSsuccess (ID: 2419)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
OnOCSlist	2055	The terminating party is on the OCS filtering list	boolean	true

Group CND (ID: 2423)

Scenario CNDdisplay (ID: 2424)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
SubCND	2058	The terminator is subscribed to CND	boolean	true
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	false
Busy	2054	The terminating party is busy	boolean	false

Scenario End Point(s):

display (ID: 978): The originator's information is displayed

ring (ID: 32): A call request is announced

ringing (ID: 953)

Scenario CNDbusy (ID: 2425)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
SubCND	2058	The terminator is subscribed to CND	boolean	true
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	false
Busy	2054	The terminating party is busy	boolean	true

Scenario End Point(s):

busy (ID: 933)

Group TeenLine (ID: 2426)

Scenario TLnotActiveSuccess (ID: 2427)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
TLactive	2057	TeenLine is active at this time	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false

SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	true
Busy	2054	The terminating party is busy	boolean	false

Scenario End Point(s):

ring (ID: 32): A call request is announced
 ringing (ID: 953)

Scenario TLActiveSuccess (ID: 2428)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done
 enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	true
SubOCS	2059	The originator is subscribed to OCS	boolean	false
TLactive	2057	TeenLine is active at this time	boolean	true
PINvalid	2056	The TeenLine PIN provided is valid	boolean	true

Scenario End Point(s):

ring (ID: 32): A call request is announced
 ringing (ID: 953)

Scenario TActiveTimeOut (ID: 2429)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	true
TActive	2057	TeenLine is active at this time	boolean	true
PINvalid	2056	The TeenLine PIN provided is valid	boolean	true

Scenario End Point(s):

notify (ID: 750)

Scenario TActiveInvalidPIN (ID: 2430)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	false
PINvalid	2056	The TeenLine PIN provided is valid	boolean	false

TLactive	2057	TeenLine is active at this time	boolean	true
SubCND	2058	The terminator is subscribed to CND	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	true

Scenario End Point(s):

notify (ID: 750)

Scenario TLActiveBusy (ID: 2431)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	true
PINvalid	2056	The TeenLine PIN provided is valid	boolean	true
TLactive	2057	TeenLine is active at this time	boolean	true
SubCND	2058	The terminator is subscribed to CND	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	true

Scenario End Point(s):

busy (ID: 933)

Scenario TLnotActiveBusy (ID: 2432)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	true
TLactive	2057	TeenLine is active at this time	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	true

Scenario End Point(s):

busy (ID: 933)

Group FI_OCS_CND (ID: 2433)

Scenario OCS_CND_display (ID: 2434)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
OnOCSlist	2055	The terminating party is on the OCS filtering list	boolean	false

SubCND	2058	The terminator is subscribed to CND	boolean	true
SubOCS	2059	The originator is subscribed to OCS	boolean	true
Busy	2054	The terminating party is busy	boolean	false
SubTL	2060	The originator is subscribed to TeenLine	boolean	false

Scenario End Point(s):

- ring (ID: 32): A call request is announced
- ringing (ID: 953)
- display (ID: 978): The originator's information is displayed

Scenario OCS_CND_busy (ID: 2435)

Scenario Start Point(s):

- req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	true
OnOCSlist	2055	The terminating party is on the OCS filtering list	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	true
SubTL	2060	The originator is subscribed to TeenLine	boolean	false
SubOCS	2059	The originator is subscribed to OCS	boolean	true

Scenario End Point(s):

- busy (ID: 933)

Scenario OCS_CND_OnList (ID: 2436)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
OnOCSlist	2055	The terminating party is on the OCS filtering list	boolean	true
SubCND	2058	The terminator is subscribed to CND	boolean	true
SubOCS	2059	The originator is subscribed to OCS	boolean	true
SubTL	2060	The originator is subscribed to TeenLine	boolean	false

Scenario End Point(s):

notify (ID: 750)

Group FI_TL_CND (ID: 2437)

Scenario BasicDefinitions (ID: 2438)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
SubTL	2060	The originator is subscribed to TeenLine	boolean	true
SubOCS	2059	The originator is subscribed to OCS	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	true

TLactive	2057	TeenLine is active at this time	boolean	false
PINvalid	2056	The TeenLine PIN provided is valid	boolean	false
Busy	2054	The terminating party is busy	boolean	false

Scenario TL_CND_NotActiveDisplay (ID: 2439)

Included UCM Scenario(s):

Scenario BasicDefinitions (ID: 2438): Initial start point, initial values, no end point. Do not run.

Scenario End Point(s):

- ring (ID: 32): A call request is announced
- ringing (ID: 953)
- display (ID: 978): The originator's information is displayed

Scenario TL_CND_ActiveDisplay (ID: 2440)

Included UCM Scenario(s):

Scenario BasicDefinitions (ID: 2438): Initial start point, initial values, no end point. Do not run.

Scenario Start Point(s):

- enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
TLactive	2057	TeenLine is active at this time	boolean	true
PINvalid	2056	The TeenLine PIN provided is valid	boolean	true

Scenario End Point(s):

- ring (ID: 32): A call request is announced
- ringing (ID: 953)
- display (ID: 978): The originator's information is displayed

Scenario TL_CND_TimeOut (ID: 2441)

Included UCM Scenario(s):

Scenario BasicDefinitions (ID: 2438): Initial start point, initial values, no end point. Do not run.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
TLactive	2057	TeenLine is active at this time	boolean	true

Scenario End Point(s):

notify (ID: 750)

Scenario TL_CND_InvalidPIN (ID: 2442)

Included UCM Scenario(s):

Scenario BasicDefinitions (ID: 2438): Initial start point, initial values, no end point. Do not run.

Scenario Start Point(s):

enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
TLactive	2057	TeenLine is active at this time	boolean	true

Scenario End Point(s):

notify (ID: 750)

Scenario TL_CND_NotActiveBusy (ID: 2443)

Included UCM Scenario(s):

Scenario BasicDefinitions (ID: 2438): Initial start point, initial values, no end point. Do not run.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	true

Scenario End Point(s):

busy (ID: 933)

Scenario TL_CND_ActiveBusy (ID: 2444)

Included UCM Scenario(s):

Scenario BasicDefinitions (ID: 2438): Initial start point, initial values, no end point. Do not run.

Scenario Start Point(s):

enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
Busy	2054	The terminating party is busy	boolean	true
TLactive	2057	TeenLine is active at this time	boolean	true
PINvalid	2056	The TeenLine PIN provided is valid	boolean	true

Scenario End Point(s):

busy (ID: 933)

Group FI_OCS_TL (ID: 2445)

Scenario Scenario2732 (ID: 2732)

Scenario Start Point(s):

req (ID: 30): A call request to a terminating party is done

enterPIN (ID: 1478)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
SubOCS	2059	The originator is subscribed to OCS	boolean	true
SubTL	2060	The originator is subscribed to TeenLine	boolean	true
Busy	2054	The terminating party is busy	boolean	false
SubCND	2058	The terminator is subscribed to CND	boolean	false
OnOCSlist	2055	The terminating party is on the OCS filtering list	boolean	false
TLactive	2057	TeenLine is active at this time	boolean	true
PINvalid	2056	The TeenLine PIN provided is valid	boolean	true

Scenario End Point(s):

ring (ID: 32): A call request is announced

ringing (ID: 953)