



## **SIP SERVER SDK v8.0**

**TECHNICAL DOCUMENTATION**

**VERSION 4.2**

## **WHAT IS CALL-SESSION**

Call-Session is a collection of either one or two calls. In a Call-Session, calls are identified as Channel-ZERO call and Channel-ONE call.

Call-Session with two calls (Channel-ZERO call & Channel-ONE call)

Channel-ZERO call	Channel-ONE call
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Call-Session with one call (Channel-ZERO call)

Channel-ZERO call	
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Call-Session with one call (Channel-ONE call)

	Channel-ONE call
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### **Call-Session with two calls (Channel-ZERO call & Channel-ONE call)**

VaxTele COM component receives SIP based call request(s), upon receiving call request(s) it internally creates/allocates a Call-Session. It adds incoming call as Channel-ZERO call to the Call-Session and triggers OnIncomingCall() event.

```
OnIncomingCall(SessionId, CallerName, CallerId, DialNo, FromPeerType,
               FromPeerName, RouteUID, RouteType, RouteName,
               UserAgentName, FromIP, FromPort)
{
    AcceptCallSession(SessionId, CallerName, CallerId, DialNo,
                     ToPeerName, RouteUID, Timeout)
}
```

AcceptCallSession() with appropriate values in the DialNo, ToPeerName, initiates a outgoing call request and adds outgoing call as Channel-ONE call to the same Call-Session (created upon incoming call). The AcceptCallSession() also accepts/connects the Channel-ZERO (incoming call) call in that Call-Session.

**Call-Session with one call (Channel-ZERO call)**

VaxTele COM component receives SIP based call request(s), upon receiving call request(s) it internally creates/allocates a Call-Session. It adds incoming call as Channel-ZERO call to Call-Session and triggers OnIncomingCall() event.

```
OnIncomingCall(SessionId, CallerName, CallerId, DialNo, FromPeerType,
               FromPeerName, RouteUID, RouteType, RouteName,
               UserAgentName, FromIP, FromPort)
{
    AcceptCallSession(SessionId, "", "", "", "", "", 20);
}
```

To only accepts/connects the incoming call without generating outgoing call AcceptCallSession() is called with no values in DialNo, ToPeerType and ToPeerName.

**Call-Session with one call (Channel-ONE call)**

VaxTele COM component exports a function DialCallSession(), that function sends/dials a SIP based call request. Such method is used to develop predictive dialer and telemarketing softwares.

```
OnVaxTeleTick(TickId)
{
    SessionId = DialCallSession(CallerName, CallerId, DialNo,
                               ToPeerName, 20)
}
```

DialCallSession() internally creates a new Call-Session and adds that outbound call as Channel-ONE call to the Call-Session.