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# Voice Microservices Events and Models Reference

Call handling and transfer/conference events

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## Contents

- [1 EventAbandoned](#)
- [2 EventDestinationBusy](#)
- [3 EventDialing](#)
- [4 EventDiverted](#)
- [5 EventEstablished](#)
- [6 EventHeld](#)
- [7 EventNetworkReached](#)
- [8 EventPartyAdded](#)
- [9 EventPartyChanged](#)
- [10 EventPartyDeleted](#)
- [11 EventQueued](#)
- [12 EventReleased](#)
- [13 EventRetrieved](#)
- [14 EventRinging](#)

Find information about the call handling and transfer/conference events that Voice Microservices produce.

**Related documentation:**

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**RSS:**

- [For private edition](#)

Call handling and transfer/conference events are stored in the voice-callthread topic.

Voice Microservices support the following call handling and transfer/conference events, which are described on this page. Click the attribute names in the tables below to see fuller descriptions of the attributes.

- EventAbandoned
  - EventDestinationBusy
  - EventDialing
  - EventDiverted
  - EventEstablished
- EventHeld
  - EventNetworkReached
  - EventPartyAdded
  - EventPartyChanged
  - EventPartyDeleted
- EventQueued
  - EventReleased
  - EventRetrieved
  - EventRinging

EventAbandoned

The caller abandoned the call before it was answered.

The **PreviousConnID** attribute must appear if the value of **CallType** is Consult.

The **ThisQueue** attribute must appear for an ACD call.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current status of the call the event relates to."> CallThreadID (mandatory) The call

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thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventDestinationBusy

The called party specified by **OtherDN** is busy with another call.

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For scenarios initiated with RequestMakeCall, the **CallState** attribute might have values that clarify the reason for the destination being busy, for instance CallStateSitInvalidNum.

The **PreviousConnID** attribute must be included if the value of **CallType** is Consult.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CallState (optional) The current status of the call the event relates to."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

## EventDialing

An attempt to make a call on behalf of the telephony object specified by **ThisDN** is in progress.

**CallType** can be Unknown.

**OtherDN** is either a dialed number or not present if Voice Microservices have no information about the other party. **OtherDNRole** appears if the attribute **OtherDN** is present.

The **PreviousConnID** attribute must appear if the value of **CallType** is Consult.

**ThisQueue** must appear in predictive dialing and be equal to **ThisDN**.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object

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(except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID() function call and attached to the request a client sends to Voice Microservices."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventDiverted

The call has been diverted from the queue to another telephony object.

The **PreviousConnID** attribute must be included if the value of **CallType** is Consult.

The **ThirdPartyDN** and **ThirdPartyQueue** attributes must be present if the value of **CallState** is Redirected. In all other call scenarios, **ThirdPartyDN** must be present only if such information is provided by a CTI link.

**ThisDN** and **ThisQueue** attributes must have equal values.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current status of the call the event relates to."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in

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question."> ThisQueue (mandatory) The directory number of the most significant ACD group with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CollectedDigits (optional) A pointer to the digits that have been collected from the calling party."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> ThirdPartyDNRole (optional) The role of the telephony object specified by **ThirdPartyDN** in the event in question."> ThirdPartyDN (optional) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThirdPartyQueue (optional) The directory number of the third most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventEstablished

For the application associated with the calling party: the telephony object specified by **OtherDN** has answered (either the calling party answered or the switch simulated an answer if option auto-answer is set on the switch) and the connection has been established. For the application associated with the called party: the call associated with **ConnID** has been established.



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The **PreviousConnID** attribute must appear if the value of **CallType** is Consult.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CallState (optional) The current status of the call the event relates to."> CollectedDigits (optional) A pointer to the digits that have been collected from the calling party."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID( ) function call and attached to the request a client sends to Voice Microservices."> ThisQueue (optional) The directory number of the most

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significant ACD group with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventHeld

The call has been placed on hold.

The **PreviousConnID** attribute must be included if the value of **CallType** is Consult.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object

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(except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID( ) function call and attached to the request a client sends to Voice Microservices."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventNetworkReached

The call has reached the public network interface.

The **PreviousConnID** attribute must be included if the value of **CallType** is Consult.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network.">

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CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventPartyAdded

One or more parties has been added to the call as a result of a conference.

Voice MCS always distributes EventPartyAdded for every party. If only one party is added (as in the case of a simple conference call), the corresponding telephony object is specified in **OtherDN**. Similarly, if more than one party is added to a call and there are multiple EventPartyAdded messages, one for each party on the consultation call joining the main call, then the corresponding telephony object is specified in **OtherDN**.

The **ThirdPartyDN** and **ThirdPartyDNRole** attributes are not present if the switch does not distribute them to Voice Microservices.

Event attribute	Short description
Event attribute	Short description

"> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices.">

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ThirdPartyDNRole (mandatory) The role of the telephony object specified by **ThirdPartyDN** in the event in question."> ThirdPartyDN (mandatory) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CallState (optional) The current status of the call the event relates to."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventPartyChanged

The telephony object specified by **OtherDN** has replaced the telephony object specified by **OtherDN**

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in the previously received event; or the **PreviousConnID** of the call has been given a new value, **ConnID**.

The value of **CallState** can be either Transferred or Conferenced.

The **OtherDN**, **OtherDNRole**, **OtherTrunk**, **ThirdPartyDNRole** attributes must not appear if the **CallState** is Conferenced.

The **ThirdPartyDN** attribute is not present if the switch does not distribute it to Voice Microservices.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current status of the call the event relates to."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> PreviousConnID (mandatory) This attribute links two associated calls."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThirdPartyDNRole (mandatory) The role of the telephony object specified by **ThirdPartyDN** in the event in question."> ThirdPartyDN (mandatory) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question.">



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OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventPartyDeleted

The telephony object specified by **OtherDN** has been deleted from the conference call in question.

The **CallState** attribute indicates whether a call is still considered as a conference (that is, the number of parties in the call is more than two).

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current status of the call the event relates to."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other

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parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID() function call and attached to the request a client sends to Voice Microservices."> ThirdPartyDNRole (optional) The role of the telephony object specified by **ThirdPartyDN** in the event in question."> ThirdPartyDN (optional) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventQueued

The call has been queued in the ACD group specified by **ThisQueue**.

The **PreviousConnID** attribute must be included if the value of **CallType** is Consult.

**ThisDN** and **ThisQueue** attributes must have equal values.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call



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to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisQueue (mandatory) The directory number of the most significant ACD group with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CallState (optional) The current status of the call the event relates to."> CollectedDigits (optional) A pointer to the digits that have been collected from the calling party."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> LastCollectedDigit (optional) The last digit collected from the calling party."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> ThirdPartyDN (optional) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventReleased

The telephony object specified by **ThisDN** has disconnected or has been dropped from the call.

The **OtherDN**, **OtherDNRole**, **OtherQueue**, and **OtherTrunk** attributes do not appear if the release is from a conference. In all other call scenarios, the attribute must be present only if such information is provided by a CTI link.

The **PreviousConnID** attribute must be included if the value of **CallType** is Consult.

The appearance of **ThirdPartyDN** depends on the following conditions:

- If information about the new destination is available from the switch at the moment when EventReleased is generated, then **ThirdPartyDN** is mandatory. Or, if Voice Microservices have initiated a single-step transfer, redirection, or previously set the forwarding target, this attribute is also mandatory.
- If a call has gone through a single-step transfer, been redirected, or forwarded by another application (not the Voice Microservices in question), the **ThirdPartyDN** attribute is absent.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current status of the call the event relates to."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> Cause (optional) For network calls, the reason for transitions to certain states — Routing and NoParty."> CollectedDigits (optional) A pointer to the digits that have been collected from the calling party."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request.">

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NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID() function call and attached to the request a client sends to Voice Microservices."> ThirdPartyDN (optional) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventRetrieved

The call has been retrieved from hold.

In all call scenarios, the **OtherDN**, **OtherDNRole**, **OtherQueue**, and **OtherTrunk** attributes must be present only if the information is provided by a CTI link.

The value for the **ThisDNRole** and **ThisQueue** attributes is the same as that for the events preceding EventRetrieved (EventEstablished and EventRinging) for the same call. For non-ACD calls, **ThisQueue** is not reported.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current

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status of the call the event relates to."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the second most significant trunk group with respect to the event in question."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID() function call and attached to the request a client sends to Voice Microservices."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> ThisTrunk (optional) The identifier of the most significant trunk with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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## EventRinging

A call has been delivered to the telephony object specified by **ThisDN**.

The **PreviousConnID** attribute must appear if the value of **CallType** is Consult.

The **ThisQueue** attribute must appear for an ACD call.

Event attribute	Short description
Event attribute	Short description

"> CallID (mandatory) This attribute contains the call identification provided by the switch, which uniquely identifies a call."> CallState (mandatory) The current status of the call the event relates to."> CallThreadID (mandatory) The call thread identifier of the call."> CallType (mandatory) The type of call in question."> ConnID (mandatory) A current connection identifier of the call to which this event relates."> id (mandatory) The event name."> Server (mandatory) A unique identifier assigned by Voice Microservices to the connection between a client and Voice Microservices."> ThisDNRole (mandatory) The role of the telephony object specified by **ThisDN** in the event in question."> ThisDN (mandatory) The directory number of the most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> time (mandatory) The structure specifies event generation time that is expressed in elapsed seconds and microseconds since 00:00 GMT, January 1, 1970 (zero hour)."> ANI (optional) Automatic Number Identification. Indicates the telephony-company charge number."> CallHistory (optional) Information about transferring/routing of the call through a multisite contact center network."> Cause (optional) For network calls, the reason for transitions to certain states — Routing and NoParty."> CollectedDigits (optional) A pointer to the digits that have been collected from the calling party."> CustomerID (optional) A pointer to the string containing the assigned Customer (Tenant) identifier through which the processing of the call was initiated."> DNIS (optional) The directory number to which the inbound call has been made."> Extensions (optional) A pointer to an additional data structure that takes into account switch-specific features that cannot be described by the other parameters in an event or a request."> NetworkCallID (optional) In the case of network routing, the call identifier assigned by the switch where the call initially arrived."> NetworkNodeID (optional) In the case of network routing, the identifier of the switch where the call initially arrived."> OtherDNRole (optional) The role of the telephony object specified by **OtherDN** in the event in question."> OtherDN (optional) The directory number of the second most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> OtherQueue (optional) The directory number of the second most significant ACD group with respect to the event in question."> OtherTrunk (optional) The identifier of the

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second most significant trunk group with respect to the event in question."> PreviousConnID (optional) This attribute links two associated calls."> Reasons (optional) A pointer to an additional data structure that provides reasons for and results of actions taken by the user of ThisDN."> ReferenceID (optional) (Use is internal to Voice Microservices.) **ReferenceID** is the identifier generated by Voice Microservices or a TSetReferenceID( ) function call and attached to the request a client sends to Voice Microservices."> ThirdPartyDN (optional) The directory number of the third most significant telephony object (except an ACD group or trunk group) with respect to the event in question."> ThisQueue (optional) The directory number of the most significant ACD group with respect to the event in question."> UserData (optional) Specifies the pointer to the call-related user data.

[>> Back to list](#)

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