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GENESYS

Interaction Tracker Interaction Segments

Technical Reference

Abstract

This content explains the improvements in interaction data collection introduced in CIC 4.0 and subsequent SUs. It provides details about the Interaction Segment types captured as part of the Interaction Segment Detail log and the reasons for the data capture.

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Overview

Before CIC 4.0, Interaction Tracker did not capture Interaction Segment Detail. It captured basic interaction information in the Call Log. The Call Log contained only a basic interaction history, due to the nature of the data collected and Call Log size limitations. getting a full interaction history was challenging.

In CIC 4.0, we added a new feature called Interaction Segment Detail data logging. This new feature captures a high-level interaction summary and details about interaction events in the new Interaction Segment Detail log. CIC captures the data in an encoded form and provides a decoding interface, the Interaction Detail View, for the customer. Using this data, Call Center managers and supervisors can view a full interaction history or create custom reports. Each segment detail entry includes StartDateTimeUTC with millisecond granularity.

Segment detail data documentation

These resources provide more information about Interaction Segment Detail.

- Information about the Segment Log URI Design is available in this KB article: <u>https://genesyspartner.force.com/customercare/pkb_Home?id=kA50B0000008R1jSAE&l=en_US&fs=Search&pn=1</u>.
- A description of Event IDs within the Segment Log is available in this KB article: <u>https://genesyspartner.force.com/customercare/pkb_Home?id=kA50B0000008R1oSAE&l=en_US&fs=Search&pn=1</u>

CIC client

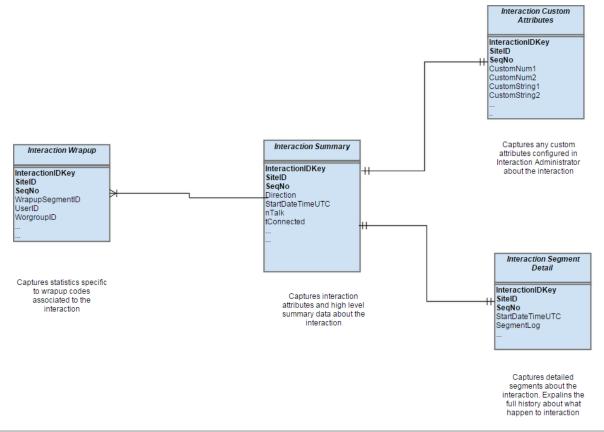
Customer Interaction Center (CIC) supports two interaction management client applications. This documentation uses the term CIC client to refer to either Interaction Connect or Interaction Desktop.

Schema and table detail

• Here is schema used before CIC 4.0.

Calldetail
callIdkey
SiteID
InitiatedDateTimeUTC
TerminatedDateTime
CustomNum1
CustomNum2
CustomNum3
CustomString1

- In 4.0 GA and later, CIC captures the interaction detail data in four tables
- These tables use an identical composite key: InteractionIDKey, SiteID, and SeqNo. You use this primary key to link the data in these tables.



Note: For more information about the attributes for these tables, see the <u>PureConnect Data Dictionary Technical Reference</u> in the <u>PureConnect Documentation Library</u>.

Table	Description
Interaction Summary	This table replaces our previous Calldetail table. It includes all the interaction attributes previously captured in the Calldetail table. In addition, it includes high-level summary data about the interaction.
	For example, you can determine how many times participants put the interaction on hold (nHeld). It also includes the total hold time (tHeld) for the interaction during its entire life cycle.
Interaction Segment Detail	This table captures interaction history in predefined segments.
Interaction Wrap-up	If the interaction has an associated wrap-up code, this table captures all the related wrap-up code statistics.
Interaction Custom Attributes	This table replaces the custom attributes in the previous Calldetail table. It includes 10 custom columns: five number columns and five string columns. The customer can define their custom attributes just as they did before CIC 4.0. This table captures the data.

How CIC generates segments

This section explains which event generates each segment type. It describes any special attributes for each segment type. For more information about segment attributes, see the <u>Segment Attributes</u> section.

Note: The Segments node in the Interaction	etails dialog box displays these segments in top-down chronologica	al order
Hote. The ocginents hote in the interaction	ctails dialog box displays these segments in top down enrollologic	ar oraci.

Segment Type	Triggering Event	Description	Special attributes
Alert	The system alerts a user or station.	How long the interaction is in an alert state with its associated parties.	During an Alert event for an intercom interaction request, the interaction includes both parties of the interaction.
System	The interaction enters the system state.	How long the interaction is in the system state before it transitions to another state	A system segment can also indicate the survey operation. If the pre-survey system segment ends as survey, then the system segment indicates how long the caller interacted with our Survey questionnaire.
Queue	CIC offers an interaction to a workgroup; the system starts capturing the time. When the interaction state changes from offered to workgroup to something else (such as disconnect or offer to the user), it stops computing the duration.	How long the interaction waits in a workgroup queue before it transitions to the next state (such as alert, connect, or disconnect).	See the <u>Segment Attributes</u> section.
Hold	An agent puts the interaction on hold, using either a CIC client or a station-only phone.	How long the interaction is in the Hold state before it transitions to the next state	See the <u>Segment Attributes</u> section.
Park	An agent parks the interaction on an orbit queue, workgroup queue, or user queue, using a CIC client.	How long the interacton is in the Park state before it transitions to the next state.	See the <u>Segment Attributes</u> section.

Messaging	An agent does not pick up the interaction and it reaches voice mail. Or an agent selects the interaction and sends it to voice mail.	How long the interaction is in the Messaging/Voicemail state before it transitions to the next state.	Not applicable
		This segment can occur before or after an interaction connects to a CIC user or CIC station.	
Connect	The interaction connects two parties (such as when an agent picks up an internal or external interaction.) The participants can be CIC users, CIC stations, or remote persons.	How long the interaction is in connected state before it transitions to the next state	See the <u>Segment Attributes</u> section.
	CIC generates a connect segment when two parties connect with each other.		
	For example, CIC does not generate a connect segment during a conference when all parties (3 or more) parties are in a connected state.		
	Also, if only one side of the interaction connects, CIC does not generate a connect segment during an intercom scenario.		
Conference	This segment does not depend on interaction state. Instead CIC generates this segment when it creates the conference to connect three or more participants,	Conference participation. How long CIC connects three or more parties in a conference interaction.	This segment includes a special detail attribute called ConfParties. This attribute captures information in XML
		This segment type applies only to telephone calls.	format about all the parties involved in the conference.
Consult	An internal user uses the Consult Call dialog in a CIC client to consult another agent or remote party on behalf of an ACD interaction. If the agent does not use the Consult Call dialog,	How long an internal user (agent) consults another party, One participant is an Agent, but the other one can	Not applicable
	CIC does not generate a Consult segment.	be an Agent or a Remote Party (non-CIC user).	
		During this consult segment, the interaction is in a connected state.	
IVR	A call enters CIC using the out-of-the-box IVR handlers; Interaction Attendant sets the EIC_IVRAppName attribute. This event generates the IVR segment.	How long the call is in the IVR application before it transitions to next state (such as disconnect or	See the <u>Segment Attributes</u> section.
	When the call enters a workgroup queue. it closes the segment	transfer to another user or workgroup queue.)	
	If the customers did not use our out-of-the-box IVR handlers, CIC might not generate an IVR segment. Customers are expected to set this attribute when it enters their IVR if they want to capture this segment. Otherwise it is logged as system segment.		
After Call Work	An agent's status changes to Follow-up or After Call Work after handling an ACD workgroup interaction.	How long an agent's status remains Follow-up or After Call Work after handling an ACD interaction.	Not applicable.

Dialing	An agent starts an outbound interaction or an intercom interaction. This segment captures both the Dialing and Proceeding states. CIC treats an intercom operation as two separate interactions. The agent who starts the intercom interaction has the Dialing segment. The agent who picks up the intercom interaction has the Alert segment	How long the interaction is in a Dialing state before it transitions to a Connect or Disconnect state.	Not applicable
External Transfer	An agent transfers any interaction outside the CIC system. This causes two external parties to use the CIC sytem to communicate. Multiple system operations such as a Blind Transfer to a Remote Number or a Consult Transfer to a Remote Number can generate this segment. When IVR uses the Remote Transfer tool step, CIC generates the external transfer segment. CIC also generates this segment when an agent configures a remote number for an Available, Forward or Available, Follow-Me status.	The duration of an explicit or implicit external transfer operation.	This segment includes some additional attributes about the transfer. See the <u>Segment</u> <u>Attributes</u> section.
Suspend	Not applicable	For future reference.	Not applicable
Unknown	CIC failed to identify this segment type.		

Segment Details

This section explains the Interaction Segment Detail log. Each segment identifies interaction events. The log captures details such as interaction type, duration, participants, and more for each segment. This table describes the different segment types that occur in different interaction scenarios. It explains which events or operations generate each segment.

End Codes

Segment Attributes

Details Attribute

End Codes

An end code describes how a segment ended.

End Code	Description
LocalDisconnect	If an agent or local party disconnects one side of an interaction, the segment associated with that agent or local party includes the LocalDisconnect end code.
	For example, if an agent disconnects an inbound ACD interaction after talking to a remote party, the disposition of the final Connect segment is Local Disconnect.
RemoteDisconnect	If an agent or local party connects with an external party and then the external party disconnects the interaction, the last segment's disposition is Remote Disconnect.
	This end code occurs because the last segment is associated with the local party and the local party did not disconnect the interaction. Otherwise, the disposition is LocalDisconnect.
Disconnect	When the interaction is not locally or remotely disconnected, the disposition is Disconnect.
	This disposition can occur in some conference call disconnections or when CIC disconnects the call for some reason.
LocalTransfer	If an agent transfers an interaction within the CIC system to other internal objects such as different local queues, agents, stations, or the IVR, then the disposition of the last transferred segment is LocalTransfer.
RemoteTransfer	When an agent transfers an interaction out of CIC system to a remote number or another CIC Server within a multi-site environment, the disposition of the last transferred segment is RemoteTransfer.
Conference	When the following segment ends as Conference, the disposition of the pre-conference segment is Conference.
System	When an interaction enters the System state, the disposition of the previous segment is System.
Interact	When an interaction ends in a Connected state with two parties connected in the interaction, then the disposition of the previous segment is Interact. CIC generates an Interact segment when an interaction connects with two parties.
Messaging	When an interaction reaches the voice mail system or the interaction state changes to the Messaging state, the disposition of the previous segment is Messaging.
Alert	When an interaction alerts a CIC user or station, the disposition of the previous segment is Alert.
Hold	When a party uses a CIC client or a station to put an interaction on hold, the previous segment ends with the Hold end code.
Grabbed	Supervisors and other users with the appropriate rights can <i>grab</i> interactions from other users. If another user grabs an interaction to which Agent1 is connected, then the last segment associated with Agent1 has the Grabbed end code.
IVR	When an agent transfers an interaction to the IVR, the previous segment has the IVR end code.
Queue	When an interaction is ACD routed or transferred to a workgroup queue, the previous segment has the Queue end code.
Survey	When an interaction reaches the post-survey operation, the previous segment has the Survey end code.
Snoozed	This end code applies only to the Callback media type. When the snoozing attribute (EIC_snoozed) is set in the System segment of a Callback media type, the System segment ends as Snoozed.
NotEnded	If, for some reason, the segment did not close correctly, the segment end code is NotEnded.
Park	If an agent parks an interaction on another queue, the previous segment has the Park end code.
Suspend	For future use.

Segment Attributes

Each event in an interaction is contained in a segment. Each segment contains the associated event attributes. This table describes all the possible attributes for the different segment types.

Attribute Name	Description
Interaction Idkey	The interaction's unique ID
Segment Sequence	This attribute can be 0. Used only when the time stamp of two successive Segments is the same.
Duration	Duration in milliseconds
Local Party	The internal user or station associated with the interaction.
	Certain segment types can have more than one associated local party. For example, an <i>Alert</i> segment can have two parties for an intercom call. And also a Conference segment can have three or more associated parties.
Queue	The queue targeted for the interaction. If there is no queue, this attribute is empty.
End Code	Code for how the event ended. For more information, see the <u>End Codes</u> section.
Details	See the Details Attribute section.
Client UTC Time	This attribute is the start time of the segment.
WrapupCode	If a Wrap-up code is associated with this segment, this attribute contains the code as defined in Interaction Administrator.
WrapupUpSegment Number	Sequence number associated with the Wrap-up code. You can use this attribute in a SQL Join query against the Wrap-up Segment table.
RemoteAddress	Remote phone number.
RemoteName	Remote party name.

Details Attribute

The Details attribute contains more attributes. This section explains how these attributes apply to different segment types for different media types. These additional attributes first appeared in CIC 4.0 SUs (Service Updates) as noted in the following table.

n CIC transfers a call to a remote ber, it generates a new InteractionID represents the outbound external nbound call contains an External ofer segment for the remaining call	External Transfer	Call	SU2
ion. This segment's InteractionId attribute contains the actionIDkey of the new outbound nal call.			
n CIC transfers a call to a remote per, the call's External Transfer nent includes the oteNumberTransferredTo attribute. attribute contains the number to	External Transfer	Call	SU2
r r n n n n	InteractionId attribute contains the ctionIDkey of the new outbound hal call. CIC transfers a call to a remote er, the call's External Transfer ent includes the teNumberTransferredTo attribute.	InteractionId attribute contains the ctionIDkey of the new outbound hal call. CIC transfers a call to a remote er, the call's External Transfer ent includes the teNumberTransferredTo attribute. attribute contains the number to	InteractionId attribute contains the ctionIDkey of the new outbound hal call. CIC transfers a call to a remote er, the call's External Transfer ent includes the teNumberTransferredTo attribute.

Available-Follow-me/Forward	When CIC redirects an interaction because an agent's status is Available, Forward or Available, Follow-Me, it sets this attribute to Yes. CIC sets this attribute on both the inbound interaction and outbound made to reach the forwarded number	Connect External Transfer	Call	SU2
TransferringInteractionId	In a blind transfer scenario, TransferringInteractionId stores the InteractionID that represents the original inbound call.	Pre-Transfer segments: Alert System Queue Connect Held	Call	SU4
TransferredInteractionId	For a blind transfer scenario, TransferredInteractionId contains the InteractionID representing the original inbound call which an agent transferred to another agent or external number.	Pre-Transfer segments: Alert System Queue Connect Held	Call	SU4
TransferringUser	For a blind transfer scenario, TransferringUser contains the ICUserID for the user performing the transfer operation.	Pre-Transfer segments: Alert System Queue Connect Held	Call	SU4
TransferredUser	For a blind transfer scenario, TransferredUser contains the ICUserID of the user who started the now transferred interaction. For example, if Agent1 calls Agent2 and Agent 2 transfers the call to Agent3, Agent1 is the TransferredUser in the Pre- Transfer segment. Agent2 is the TransferringUser.	Pre-Transfer segments: Alert System Queue Connect Held	Call	SU4
IVRAppName	When a call enters the IVR, the call's IVR segment includes the IVRAppName attribute. This attribute contains the name of the IVR profile that serviced the interaction.	IVR	Call	SU4

ACDSkillSet	When an ACD call carries a specific skill set value, then segments to which this skill set value applies, store this value. Tracker Server also captures the time stamp when the skill set value is set on an interaction. For a segment where a new skill set value replaces an old value, that segment contains both the old and the new value. The segment has the old value for the initial period and the new value for the rest of the segment duration.	Alert System Queue Connect Held	Call	SU5
SecuredSessionStartTime AndDuration	This attribute tracks secured sessions during a segment. If one or more secured IVR sessions occur within a segment boundary, then the sessions start time and duration are available in this attribute. For a secured session, Interaction Tracker stores startdatetime followed by a space and then duration in seconds followed by a comma. If there are multiple secured sessions during a segment, this attribute contains multiple values with the values for each session separated by a comma.	Connect System	Call	SU5
SnoozeStartTime	An agent can <i>snooze</i> an alerting callback. This action removes the callback request from the agent's queue and places it back on the workgroup queue in a "Snoozed" state. This attribute records when the agent <i>snoozed</i> the callback.	System	Callback	SU5
SnoozeDuration InSeconds	This attribute records how long the callback remained in a <i>snoozed</i> state.	System	Callback	SU5
CallbackRetries	Number of times the agent attempted to fulfill the callback request.	System	Callback	SU5

Segment detail data in different interaction scenarios

Two-party calls

Simple ACD inbound call to workgroup queue

An external party phones the Call Center's 800 number and directly reaches a workgroup queue without going through the IVR. A Call Center agent picks up the ACD inbound interaction.

Because the external party did not use our out-of-box IVR handler or Attendant node, CIC doesn't capture an IVR segment. Instead CIC captures a System segment for the call.

🔀 Interaction Details for 1001838811		
Inbound Call 4/21/2014 1:5 Interactive Intelligence - sip:3177158491@in		🎸 🔴 - 🖄 🍢 🗞 🐔 🔧
START Os	10s	END 20s 24.8s
Interaction Segments System Queue Alert	Interactio	n Summary
Connect Hold	Interaction ID	1001838811
Connect	Туре	Call
□ Local Parties sg-clay24_user	Duration	00:00:24
 Workgroups Marketing 	Time	4/21/2014 1:55 PM
	Disposition	Remote Disconnect during Connect
	Direction	Inbound
	Remote Address	sip:3177158491@inin.com:5060
	DNIS	sip: 3@ sg-clay24:5060
	Recorded	Yes
	Surveyed	No
	Remote Party	Interactive Intelligence
	Local Parties	sg-clay24_user
	🗧 Call Log	
	× Advanced	
		Previous Next Print Close

Simple ACD inbound call to IVR system

An external party phones the Call Center's 800 number and enters the IVR system. CIC routes the call to the appropriate workgroup. In this example, the system uses our default IVR handlers or Attendant node, so the system creates an IVR segment in addition to a System segment.

🌄 Interaction Details for 3001980100				
Inbound Call 1/29/2015 11:18 A Interactive Intelligence - (317) 715-8321	М		6	2 🔖 🐔 🟅 🔧
START OS	1 1 1	10s	1 1 1	END 20.1s
Interaction Segments IVR VC Queue	System			00:00:02
☐ Ålert	Server Time Duration	1/29/2015 11:18:58.860 00:00:02		
 Workgroups Marketing 	Local Parties Workgroup			
	End Code	IVR		
	× Advanced			
		Pr	revious Next	Print Close

Internal ACD call

Agent1 calls one of the workgroup queues. Agent2 from the workgroup queue answers Agent1. In this scenario, there are two InteractionIDs. One for the initiator agent side (Agent1) and one for the respondent agent side (Agent2).

- The direction of **initiator** side of the intercom interaction is **outbound**.
- The direction of the **respondent** side of the intercom interaction is **inbound**.

Intercom initiator

🎇 Interaction Details for 3001805088		
Outbound Call 11/17/2014 6:02 PM Prabahar Ignatius - 8321		8 🖉 🖝 🖓 🗞 🏅 丸
START	1 1	IND 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Interaction Segments Connect Hold	Interactio	n Summary
■ Connect □ Local Parties sg-clay16_user	Interaction ID Type Duration Time Disposition	3001305088 Call 00:00:16 11/17/2014 6:02 PM Remote Disconnect during Connect
	Direction Remote Address DNIS	Outbound /8321
	Recorded Surveyed	Yes No
	Remote Party	Prabahar Ignatius
	Local Parties	g-clay16_user
	Call Log Advanced	
	- Rotaliced	
		Previous Next Print Close

Intercom respondent

🍓 Interaction Details for 3001805090					
Inbound Call 11/17/2014 6:02 PM sg-clay16_user - 8793				6	· 🖻 🍋 🗞 🥇 📌
START	1 1	1 1 1	10s		END 15.8s
Interaction Segments Queue Alert Connect	Interactio	n Summary			
Echinect Hold Connect Local Parties sg-clay16_user Prabahar.Ignatius Workgroups Marketing	Interaction ID Type Duration Time Disposition	3001805090 Call 00:00:15 11/17/2014 6:02 PM Local Disconnect during Connect			
	Direction Remote Address DNIS	Inbound /8793 3			
	Recorded Surveyed	Yes No			
	Remote Party	sg-clay16_user]
	Local Parties	sg-clay16_user Prabahar.Ignatius			
	🛛 🗧 Call Log				
	× Advanced				
			Previo	us Next	Print Close

Park scenario

An external party calls Agent1. Agent1 picks up the interaction, puts it on hold and then parks the call on Agent2's queue. The call remains on Park for a while and then Agent2 picks up. This creates a Park segment.

Interaction Tracker began to track Park segments in CIC 2016 R3.

- Prior to this change, Tracker legacy tables (IntxSegment and Intx_participant) showed that the Hold segment ended in Park (HowEnded=14). The next segment was the Connect segment between the caller and Agent 2. After the change, the Hold segment still ends in Park, but the next segment is the Park segment (SegmentType=4096). This is followed by the Connect segment between the call and Agent 2.
- After the change, the InteractionSegmentDetail table can now have a Park segment in the SegmentLog column. When a Park segment is present in the SegmentLog column, the Park segment appears in the Interaction Detail Viewer as explained in the following example.

In this example, a call alerts, is connected, put on hold, and then parked on the Anthony.Smith queue.

🄀 Interaction Details for 2001680013				
Inbound Call 9/17/2015 10:37 AM Interactive Intelligence - sip:3177158491@i3domain.ini	n.com:5060		6° 🗕 🖻 🖏 🖗	ð 🏅 🔧
START 05 20	Ds 30s	40s	50s 1:00 1:10	END 1:18
Interaction Segments System Alert Hold Park Connect C		9/17/2015 10:38:24.907 00:00:14	(00:00:14
Ajay.Bhargava Anthony.Smith	Local Parties Workgroup	Anthony.Smith		
	End Code	Interact		
	i		1	
	Key InteractionKey SegmentSequence Duration LocalParty Queue EndCode Details ClientUtc SegmentSequence	14275 user queue:Anthony.Smith Interact 20150917T104202.174-04		
			Previous Next Print	Close

Blind transfer scenarios

The following scenarios illustrate the different types of blind transfer operations and their associated segments captured in the Segment Log. The Transfer icon indicates when the interaction was transferred.

Blind transfer an inbound call to another agent

Blind transfer an inbound call to an external number

Blind transfer a call to an agent who transfers it to another agent

Blind transfer an intercom call to a remote number

Blind transfer an inbound call to another agent

Agent1 receives a call from an external party. Agent 1 puts the call on hold and then transfers the call to another agent (Agent2). There is only one InteractionID (InteractionID) in this scenario. The InteractionID captures the entire interaction history.

Note: There are some additional details captured in the transferred segment. These details include: TransferringInteractionId, TransferredInteractionId, TransferringUser, and TransferredUser. For more information, see the preceding <u>Details Attribute</u> section.

und Call 4/21 e Intelligence - sip:317	7158491@inin.com:5060			3	• 1	N N	9
				➡ Transfer		_	
I I S	1 1 1	1 1 1 1 1 1 1 10s		1 1	 20s	1 1	T
ction gments System Queue	Hold					00	0:00
Alert Connect Hold	Server Time	4/21/2014 15:52:22.484					
Alert Connect	Duration	00:00:02					
cal Parties sg-clay24_user Ben.Coats	Local Parties	æg-clay24_user					
orkgroups Marketing	Workgroup	Vlarketing					
	End Code	Local Transfer					
	Advanced						
	Key	Value					
	InteractionKey	100183883140140421					
	SegmentSequence						
	Duration	2668					
	LocalParty	user queue:sg-clay24_user					
	Queue	workgroup queue: Marketing LocalTransfer					
	Details	<pre></pre>					

Blind transfer an inbound call to an external number

Agent1 receives a call from an external Party. Then Agent1 puts the interaction on hold and transfers the remote party to an external number. (The interaction is transferred out of the CIC system and answered by another agent.)

In this scenario, there are two InteractionIDs. One for the inbound call and one for the outbound call made to the external number. The inbound InteractionID captures the transfer history.

Note: The pre-transfer segment (the *Hold* segment) has some additional attributes about the transfer operation. The external transfer segment at the end indicates that the interaction is transferred out of the CIC system.

Inbound call

🔀 Interaction Details for 10018	38994								_ 🗆 ×
Inbound Call 4/24/20 Interactive Intelligence - sip:3177158						5	• 2	P S 2	1 %
						6	Transfer		
START									END
Os	1 1 1	105		1 1	1 1 1	20s	1 1	1 1	27.25
Interaction	1	105				205			27.23
Segments	Hold							00:00	0:07
Alert Connect	Server Time	4/24/2014 12:04:26.815							
Hold External Transfer	Duration	00:00:07							
Local Parties	Dulation	00.00.07							
sg-clay24_user Workgroups	Local Parties	sg-clay24_user							
Marketing	Workgroup	Marketing							
		0							
	End Code	Remote Transfer							
	Advanced								
	Key	Value							
	InteractionKey	100183899440140424							
	SegmentSequence	0							
	Duration	7399							
	LocalParty	user queue:sg-clay24_user							
	Queue	workgroup queue: Marketing							
	EndCode	RemoteTransfer							_
	Details	<details td="" transferringinteractio<=""><td>nld="100183899440140</td><td>0424" Transferredint</td><td>eractionId="10018385</td><td>99440140424" Trar</td><td>sferringUser="</td><td>g-clay24_user" /></td><td></td></details>	nld="100183899440140	0424" Transferredint	eractionId="10018385	99440140424" Trar	sferringUser="	g-clay24_user" />	
	ClientUtc	20140424T120754.227-04							
	SegmentSequence	0							
						Previous	Next	Print	Close

Outbound call

ction Details for 100 ound Call 4/2			R 🔿 🗟 😨
is IN - (317) 222-2222	,,		6° 🖉 🖄 🗞
	1s 25	3s 4s	5s 6s
raction Segments Dialing Connect	Connect		00:00:
al Parties sg-clay24_user	Server Time 4/24/20 Duration 00:00:0	14 12:04:36.191 3	
	Local Parties Workgroup		
	End Code Local D Wrapup	sconnect	
	Advanced		
	Key	alue	
		.00183899640140424	
)	
		8156	
	LocalParty Queue		
		ocalDisconnect	
	Details		
	WrapupCode		
	WrapupSegmentNumber		
		0140424T120754.228-04	
	SegmentSequence)	
			Previous Next Print Cl

Blind transfer a call to an agent who transfers it to another agent

Agent1 receives a call from Agent2. Agent1 puts the call on hold and transfers the call to Agent3. Agent2 and Agent3 talk for few minutes and disconnect.

In this scenario, there are two InteractionIDs, one for the initiator agent side (Agent2) and one for the respondent agent side (Agent1). When Agent1 transfers the call to Agent3, the intercom initiator interaction InteractionID contains the history of entire interaction.

Note: The pre-transfer segment contains more attributes about the transfer operation. It includes the agent who transferred the interaction (TransferringUser) and also the agent who received the transferred interaction (TransferredUser).

Initiator

🔀 Interaction Details for 1001	838866	
Outbound Call 4/22 Ben Coats - 4451	/2014 10:59 AM	See - 🔁 🖏 👬 😤
		Transfer
START		END
0s	1 1	10s 20s 24.1s
Interaction Segments Dialing Connect Hold	Hold	00:00:07
External Transfer	Server Time	4/22/2014 10:59:11.289
sg-clay24_user	Duration	00:00:07
	Local Parties	g-clay24_user
	Workgroup	
	End Code	Remote Transfer
	* Advanced	
	Key	Value
	InteractionKey	100183886640140422
	SegmentSequence	2 0
	Duration	7765
	LocalParty	user queue: sg-clay24_user
	Queue	
	EndCode	RemoteTransfer
	Details	> <details interactionid="100183886640140422" transferred="" transferreduser="se-clay24_user" transferring="" user="Ben Coats"></details>
	ClientUtc	201404227110035.296-04
	SegmentSequence	
	4	Þ
		Previous Next Print Close

Respondent

Interaction Details for 100	01838862									_0
bound Call 4/22, Bhargava - 8491	/2014 10:37 AM							<i>°</i> • •	2 🍢	🗞 🟅 🕈
ART				_						END
Os T	1 1 1		T	10s	 1 1	1 1	1	1 1	205	22.25
teraction Segments Alert Connect	Connect									00:00:03
Hold Alert Hold Connect	Server Time Duration	4/22/2014 10:38:10.414 00:00:03								
Local Parties sg-clay24_user Ajay.Bhargava Ben.Coats	Local Parties Workgroup	Ben. Coats								
	End Code Wrapup	Hold								
	× Advanced									
							Previous	Next	Pr	int Close

Blind transfer an intercom call to a remote number

Agent1 receives a call from Agent2. Then Agent1 puts the call on hold and transfers the call to a remote number.

In this scenario, there are three InteractionIDs: initiator side (Agent2), respondent side (Agent1), and the outbound external call. The initiating InteractionID captures the entire history of the transfer. The initiating InteractionID is the one remaining in the system after the transfer is successful. The other two InteractionIDs are disconnected after the transfer operation completes.

Note: The pre-transfer segment contains the same transfer options detail as the <u>Blind transfer a call to an agent who transfers</u> <u>it to another agent</u> scenario.

Initiator

🔀 Interaction Details for 1001	838866	
Outbound Call 4/22 Ben Coats - 4451	/2014 10:59 AM	C 🗢 🕐 🍢 🐔 🏅 🔧
		⇒ Transfer
START		09
0s		10s 20s 24.1s
Interaction Segments Daling Connect	Hold	00:00:07
External Transfer	Server Time	4/22/2014 10:59:11.289
l⊟ Local Parties sg-clay24_user	Duration	00.00.07
	Local Parties	g-clay24_user
	Workgroup	
	End Code	Remote Transfer
	* Advanced	
	Key	Value
	InteractionKey	100183886640140422
	SegmentSequence	0
	Duration	7765
	LocalParty	user queue: ge-clay24_user
	Queue	
	EndCode	RemoteTransfer
	Details	< Details Transferring Interaction Id="100183886840140422" Transferring User="Ben Coats" Transferred Interaction Id="100183886640140422" Transferred User="g-clay24_user" />
	ClientUtc	201404227110035.296-04
	SegmentSequence	
	•	
		Previous Next Print Close
		PTERADO IVEX PTER CODE

Respondent

🖏 Interaction Details for 10	01838868		
Inbound Call 4/22 sg-clay24_user - 8793	/2014 10:59 AM		🏈 🗢 * 🗟 🇞 🏅
START		1 1	
Ús			10s 1
Interaction Segments Alert Hold Hold	Hold		00:00:0
Local Parties Ben.Coats sg-clay24_user		4/22/2014 10:59:11.289 00:00:07	
	Local Parties Workgroup	Ben.Coats	
	End Code	Local Disconnect	
	Advanced		
	Key	Value	
	InteractionKey SegmentSequence Duration LocalParty Queue EndCode Details ClientUtc SegmentSequence	7765 user queue:Ben.Coats LocalDisconnect 20140422T110065.293-04	34
			Previous Next Print Clos

Outbound external

Interaction Details for 100			- 0
anapolis IN - (317) 222-2222	22/2014 10:59 AM	C 🗢 - 🖄 🇞 💈	
		29 36 45 55 65 75 66 95 105	EN
Interaction Segments Dialing Connect	Connect	00:0	0:06
 Local Parties Ben.Coats sg-clay24_user 	Server Time Duration	4/22/2014 10:59:21.411 00:00:06	
	Local Parties Workgroup	zg-clay24_user	
	End Code Wrapup	Local Disconnect	
	× Advanced		
		Previous Next Print	Close

Consult transfer scenarios

The following sections illustrate the different types of consult calls and their associated segments captured in interaction Segment Log. The transfer icon above the timeline at the top of the **Interaction Details** dialog identifies the transferred segment.



Consult transfer an ACD Interaction to another agent

Consult transfer an ACD call to a remote party

Consult transfer an internal call to another agent

Consult transfer an internal call to a remote party

Consult transfer an ACD Interaction to another agent

Agent1 receives an ACD interaction from a remote party (for example, a customer). After interacting with this external party for a few minutes, Agent 1 put the call on hold. Agent 1 makes a consult call to Agent2. Agent1 and Agent2 consult for few minutes. Then Agent1 transfers the remote party call to Agent 2.

In this scenario, there are three InteractionIDs: inbound external call, initiator (Agent1) side of intercom consult call, and the respondent (Agent2) side of the intercom consult call. The external party InteractionID includes the pre-consult and post-consult transfer detail. The intercom call includes the consult call details.

Note: The consult interaction has the connect segment as Consult. This segment helps the Call Center manager identify this intercom interaction as a consulting interaction. In this example, Agent1 and Agent2 consult for some time, then Agent1 talks to the external party, and then Agent1 consults with Agent2 again. You see the corresponding held and consult segments in the intercom call when Agent1's context switches from the internal Agent2 to the external party.

Inbound

腾 Interaction Details for 1001838873				
Inbound Call 4/22/2014 11:5 Interactive Intelligence - sip:3177158491@init	55 AM n.com:5060	6	••• 🖻	N N Z Y
START			1:20 1:30	Transfer END 1:40 1:50 1:56
Interaction Segments System Queue Alert	Connect			00:00:09
Connect Hold Connect Hold	Server Time Duration	4/22/2014 11:57:32.716 00:00:09		
Connect After Call Work ⊡ Local Parties sg-clay24_user	Local Parties Workgroup	Ben. Coats Support		
Ben.Coats ⊡ Workgroups Marketing Support	End Code Wrapup	Remote Disconnect		
	× Advanced			
		Previous	Next	Print Close

Consult initiator

🖏 Interaction Details for 1001838876				
Outbound Call 4/22/2014 1 Ben Coats - 4451	1:56 AM	G	• • 🔁 🍢	6 2 7
START Os 10s	20s		40s	END 48.6s
E Segments Dialing Consult Hold	Consult			00:00:05
■ Consult □ Local Parties sg-clay24_user	Server Time Duration	4/22/2014 11:57:26.992 00:00:05		
	Local Parties Workgroup	sg-clay24_user		
	End Code	Local Disconnect		
	Advanced			
	·	Previous	Next Prin	t Close

Consult respondent

🔀 Interaction Details for 1001838877				
Inbound Call 4/22/2014 11:50 sg-clay24_user - 8793	5 AM	G	• • 🖻 🍢	
START Os 10s			40s	END 48.6s
E Segments	Consult			00:00:05
Alert Consult	Constant			
Hold	Server Time	4/22/2014 11:57:26.992		
 Local Parties sg-clay24_user 	Duration	00:00:05		
Ben.Coats Workgroups	Local Parties	Ben. Coats		
Support	Workgroup	Support		
	End Code	Local Disconnect		
	× Advanced			
		Previous	Next Print	Close

Consult transfer an ACD call to a remote party

This scenario is similar to the <u>Consult transfer an ACD call to another agent</u> scenario. The difference is that Agent1 consults with a remote person instead of consulting an internal agent. Agent1 makes an outbound call instead of making an internal call. After consulting with the remote consulting party, Agent1 transfers the interaction.

Another difference is there are only two InteractionIDs instead of three InteractionIDs in this scenario. Because there is no intercom call, there are only two InteractionIDs: one for the inbound call and one for the outbound call. In the outbound call, notice the consult segment which represents the consulting operation.

Inbound

Interaction Details for 1001838891 Inbound Call 4/22/2014 2:28 F Interactive Intelligence - sip:3177158491@inin.c		_□>
START OS 10)s	20s 30s 41.1s
Interaction Segments System Queue Alert	Interactio	n Summary
Connect Hold	Interaction ID	1001838891
Connect	Туре	Call
External Transfer	Duration	00:00:41
Local Parties sg-clay24_user	Time	4/22/2014 2:28 PM
 Workgroups Marketing 	Disposition	Unknown
_	Direction	Inbound
	Remote Address	sip: 3177158491@inin.com:5060
	DNIS	sip: 3@ sg-clay24:5060
	Recorded	Yes
	Surveyed	No
	Remote Party	Interactive Intelligence
	Local Parties	sg-clay24_user
	🛛 🖉 Call Log	
	·	Previous Next Print Close

Outbound

🔀 Interaction Details for 1001838894		
Outbound Call 4/22/2014 2:28 Indianapolis IN - (317) 222-2222	PM	🥜 🔴 - 🐼 🖏 🚰 😤
START		END
	1 1 1	
0s		10s 19.6s
Interaction Segments Dialing Consult Hold	Interactio	n Summary
Consult	Interaction ID	1001838894
Local Parties	Туре	Call
sg-clay24_user	Duration	00:00:19
	Time	4/22/2014 2:28 PM
	Disposition	Remote Disconnect during Connect
	Direction	Outbound
	Remote Address	+13172222222
	DNIS	
	Recorded	Yes
	Surveyed	No
	Remote Party	Indianapolis IN
	Local Parties	sg-clay24_user
	🗧 Call Log	
		Previous Next Print Close

Consult transfer an internal call to another agent

Only internal parties participate in this interaction. There is no external party. Agent1 makes an internal call to Agent2. Agent2 puts the call on hold. Agent2 consults Agent3 and then transfers the call from Agent1 to Agent 3. After the consult operation, Agent1 and Agent3 are connected.

Because this interaction is an intercom call, two InteractionIDs represent the initiator and respondent ends of the inbound call. For the consult call, there are two InteractionIDs again. So this scenario has a total of four InteractionIDs. The second set of InteractionIDs includes the Consult segment to represent the consult operation. The consult initiator and consult respondent InteractionIDs capture the consult duration. The system captures the connect duration after the consulting call in the intercom respondent and consult initiator InteractionIDs.

Intercom initiator

🖏 Interaction Details for 1001838980 📃 🗖 🗙						
Outbound Call 4/24/2014 11:50 AM sg-clay24_user - 8793 Image: Call of the second sec						
START START		END 10s 20.9s				
Interaction Segments Dialing Connect Hold	Interactio	n Summary				
Connect Hold	Interaction ID	1001838980				
Local Parties Ajay.Bhargava	Туре	Call				
Ajay.bilaigava	Duration	00:00:20				
	Time	4/24/2014 11:50 AM				
	Disposition	Local Disconnect during Connect				
	Direction	Outbound				
	Remote Address	/8793				
	DNIS					
	Recorded	No				
	Surveyed	No				
	Remote Party	sg-clay24_user				
	Local Parties	Ajay.Bhargava				
		Previous Next Print Close				

Intercom respondent

🍀 Interaction Details for 1001838982				
Inbound Call 4/24/2014 11:5 Ajay Bhargava - 8491	50 AM	ć	8 🔵 🖻 🕅	§ 1 2 2 1
				Transfer
START				END
Os	10s		20s	24.8s
Interaction Segments Queue Alert	Connect			00:00:03
Connect Hold	Server Time	4/24/2014 11:51:06.736		
Connect Hold	Duration	00:00:03		
Connect				
Ajay.Bhargava sg-clay24_user	Local Parties	Ajay.Bhargava		
Workgroups	Workgroup	Marketing		
Marketing	End Code	Local Disconnect		
	Wrapup	Local Disconnect		
	wiabab			
	× Advanced			
		Previous	Next	Print Close

Consult initiator

🍀 Interaction Details for 1001838984				
Outbound Call 4/24/2014 1: Ben Coats - 4451	1:50 AM		<i>C</i> 🔍 R	V 0 S 0 Z 1 2 1
			🔿 Trans	fer
START				END
Os	1 1 1	10s	1 1 1	16.4s
Interaction Segments Iolaling Consult	Connect			00:00:03
Hold	Server Time	4/24/2014 11:51:06.736	2	
Connect □ Local Parties sg-clay24_user	Duration	00:00:03		
Ben.Coats	Local Parties Workgroup	Ben. Coats		
	End Code Wrapup	Remote Disconnect		
	× Advanced			
		Previous	Next	Print Close

Consult respondent

뿮 Interaction Details for 1001838985				
Inbound Call 4/24/2014 11:50 sg-clay24_user - 8793) AM	(8 🔍 🕅	s 🗞 🟅 🐔
START OS	I 1 1		10s	END 12.45
Interaction Segments Alert Consult Hold	Consult			00:00:03
☐ Consult ☐ Local Parties Ben.Coats sg-clay24_user	Server Time Duration	4/24/2014 11:51:03.414 00:00:03		
	Local Parties Workgroup	Ben. Coats		
	End Code	Local Disconnect		
	Advanced			
		Previous	Next	Print Close

Consult transfer an internal call to a remote party

In this scenario, Agent1 calls Agent2. Agent2 puts the call on hold, and makes a consulting call by dialing an outbound number. After consulting with the remote party, Agent2 transfers Agent1 to the Remote Party. There are three InteractionIDs: the intercom initiator side, the intercom respondent side, and the outbound call (the consulting InteractionID).

Intercom initiator

🍀 Interaction Details for 1001082303		
Outbound Call 4/22/2014 1:44 Anthony Smith - 4780	4 PM	🌮 🔴 - 🖻 🇞 🗞 🏅 🗫
START OS	10s	END 20s 30.3s
Interaction Segments Dialing Connect Hold	Interactio	n Summary
Connect Hold	Interaction ID	1001082303
Local Parties sg-clay2_user	Туре	Call
sg-clay2_user	Duration	00:00:30
	Time	4/22/2014 1:44 PM
	Disposition	Local Disconnect during Connect
	Direction	Outbound
	Remote Address	/4780
	DNIS	
	Recorded	Yes
	Surveyed	No
	Remote Party	Anthony Smith
	Local Parties	sg-clay2_user
		Previous Next Print Close

Intercom respondent

腾 Interaction Details for 1001082305		
Inbound Call 4/22/2014 1:44 F sg-day2_user - 8793	PM	🌮 🔴 - 🖻 🍢 🗞 🗞 💈 🗫
START START	10s	END 20s 29,9s
Interaction Segments Alert Connect Hold	Interactio	n Summary
Connect Hold	Interaction ID	1001082305
Local Parties Anthony.Smith	Туре	Call
sg-clay2_user	Duration	00:00:29
	Time	4/22/2014 1:44 PM
	Disposition	Local Disconnect during Connect
	Direction	Inbound
	Remote Address	/8793
	DNIS	4780
	Recorded	Yes
	Surveyed	No
	Remote Party	sg-claγ2_user
	Local Parties	Anthony.Smith
		Previous Next Print Close

Outbound call

🖏 Interaction Details for 1001082308						
Outbound Call 4/22/2014 1: Indianapolis IN - (317) 222-2222	45 PM		5	• •	<u>r</u>	8 2 1
START OS	1 1 1		10s	T	1 1	Tran END 15.2s
Interaction Segments Consult Hold	Dialing					00:00:04
Consult Consult Local Parties Anthony,Smith	Server Time Duration	4/22/2014 13:45: 00:00:04	12.921			
	Local Parties Workgroup	Anthony.Smith				
	End Code	Interact				
	➢ Advanced					
		Pri	evious	Next		Print Close

Three-party conference

Agent1 receives a call from an external party. Agent1 puts the call on hold and then calls Agent2. Agent1 and Agent2 consult, then Agent1 simply creates the conference with all the three parties,

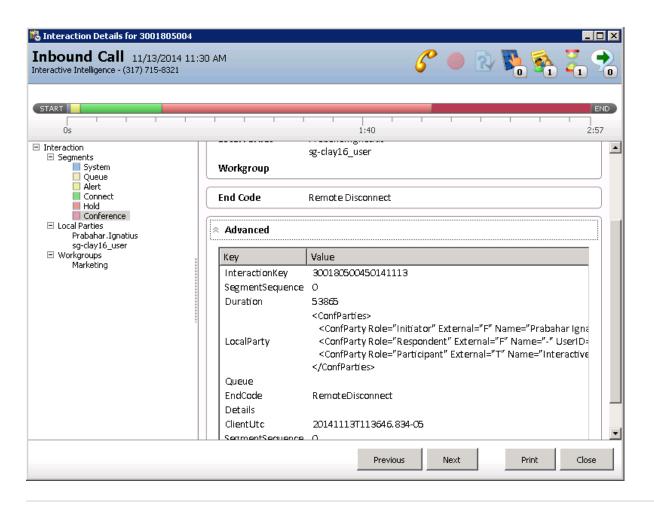
There are three interaction IDs logged to the Interaction Segment Detail table:

- The Inbound ACD Call InteractionID captures all the events before the conference, in addition to conference detail.
- The intercom initiator InteractionID captures the name of the agent who handled the interaction before the conference and also the conference detail.
- The intercom respondent InteractionID represents the agent who consulted before the conference. It has the pre-conference segment and also the conference detail.

Refer to the conference segment advanced section detail. The local party contains all the associated conference participants.

Note: In this scenario, because both agents have a discussion before the conference, the intercom initiator and respondent InteractionIDs have a connect segment.

Inbound ACD call



Intercom initiator

🔀 Interaction Details for 3001805006					
Outbound Call 11/13/2014 Prabahar Ignatius - 8321	11:32 AM		6	2 🍋	è 🟅 🗞
	0s 30s	40s 50s	1:00	1:10	END 1:21
Interaction Segments Dialing Connect Conference	Connect				00:00:24
 Local Parties Prabahar. Ignatius sg-clay16_user 	Server Time Duration	11/13/2014 11:32:27.28 00:00:24	6		
	Local Parties Workgroup	Prabahar. Ignatius			
	End Code Wrapup	Conference			
	× Advanced				
		Previous	Next	Print	Close

Intercom respondent

뿮 Interaction Details for 3001805007			×
Inbound Call 11/13/2014 11: sg-clay16_user - 8793	32 AM	🥜 💻 🗟 🎇 🧐	
OS 105		ENC 30s 40s 50s 1:01	
Interaction Segments Alert Connect Conference	Time Disposition	11/13/2014 11:32 AM Unknown	•
 Local Parties Prabahar.Ignatius sg-clay16_user 	Direction Remote Address DNIS	Inbound /8321 8793	
	Recorded Surveyed	No No	
	Remote Party	sg-clay16_user	
	Local Parties	Prabahar.Ignatius g-clay16_user	
	🗧 🗧 🗧		
	× Advanced		•
		Previous Next Print Close	

Outbound Interaction

Dial on behalf of workgroup outbound interaction

We capture all the required segments of a simple outbound interaction. In this scenario, the outbound interaction is associated with a workgroup. This scenario is similar to the Dialer-initiated outbound interaction. However, Dialer-initiated outbound interactions are not associated with a workgroup until the remote party picks up the call. When this interaction is assigned to an agent, it is associated with a workgroup.

But an agent can associate a workgroup with an interaction when placing a call. All the segments in these *Dial on behalf of* interactions include the workgroup association. This workgroup association appears in the first segment (Dialing) and in every other segment until the interaction ends.

🖏 Interaction Details for 3001805063						
Outbound Call 11/16/2014 Indianapolis IN - (317) 222-2222	7:29 PM	(5	• •	2 🍋	🗞 🏅 🔧
START				I	1 1	END
Ós			10s			15s
Interaction Segments Dialing Connect Hold	Dialing					00:00:04
	Server Time	11/16/2014 19:29:13.3	384			
 Local Parties Prabahar Ignatius Workgroups 	Duration	00:00:04				
Marketing	Local Parties	Prabahar.Ignatius				
	Workgroup	Marketing				
	End Code	Interact				
	× Advanced					
		Previous		Next	Pr	int Close

Simple outbound interaction

In this case, the agent made an outbound call to a remote number. Since the agent did not associate this call with a workgroup, you do not see a workgroup name in any of the segments.

뿮 Interaction Details for 3001805067				
Outbound Call 11/16/2014 7 Indianapolis IN - (317) 222-2222	:29 PM	5	• • 🗞 🍋	🗞 🏅 🐔
START				END
Os Dialing at 00:00:00	1 1		10s	12,3s
Interaction Segments Dialing Connect Hold	Dialing			00:00:03
 Hold Connect Local Parties Prabahar.Ignatius 	Server Time Duration	11/16/2014 19: 29:46.154 00:00:03		
	Local Parties Workgroup	Prabahar. Ignatius		
	End Code	Interact		
	× Advanced			
		Previous	Next	int Close

Interaction Detail API

Use the Interaction Detail API to access and manipulate interaction segment detail data.

<u>Table 0 - Events</u> <u>Table 1 - Attributes</u> <u>Table 2 - Attribute detail data</u> <u>Table 3 - Errors</u> <u>Sample code</u>

Table 0 - Events

Column	Description
Interaction Id	Value from InteractionSegmentDetail.InteractionIdKey
EventId	Integer value for event name in "Name" column
EventKey	Unique Id generated by InteractionDetailsAPI
ServerUTC	Server time when the record was entered
Server Seq	Sequence
ClientUTC	Client time when the record was entered
Name	Localized event name
NameResourceString	Segment Detail with tokens
FinalResourceString	Segment detail with replacement strings

Table 1 - Attributes

Column	Description
AttributeKey	Unique Id generated by InteractionDetailsAPI
EventKey	Unique Id generated by InteractionDetailsAPI; foreign key to Events table
SeqNum	Sequence
Name	Abbreviated description of attribute
Туре	Attribute data type
Action	Specific action of attribute (eg., 'DELAY', 'ALERT', 'CONNECT'
AttrNameResourceString	Name of value in 'DisplayValue' column
DisplayValue	Value of attribute

Table 2 - Attribute detail data

Column	Description
EventDetailKey	Unique Id generated by InteractionDetailsAPI
EventKey	Unique Id generated by InteractionDetailsAPI; foreign key to Events table
Action	Specific action of attribute (rg., 'DELAY', 'ALERT', 'CONNECT'
Description	Event description
DurationSeconds	Duration of event in seconds, up to 3 decimal places (thousandths); eg: '14.103', '120.502'
UserQueue	User queue associated with event; blank if none
StationQueue	Station queue associated with event; blank if none
WorkgroupQueue	Workgroup queue associated with event; blank if none
EndCode	End code associated with event
InteractionCount	Place holder for analytics package to add '1' or '0' to get accurate interaction count by various dimensions
Connected	'True' of 'False', depending if 'CONNECTED' appears in the attribute list of the given event.
SegmentSequence	The sequence number of the segment; canbe used for sorting by segment order

Table 3 - Errors

Column	Description
ErrorText	The text of the errors encountered from (1) while translating URI value to XML, (2) invalid dates, (3) attributes with invalid replacement tokens in Events.NameResourceString, (4) invalid XML returned from <code>QiHistory.MultipleEventsToXML</code>

Sample code

The following code sample uses ININ.Reporting.InteractionDetailsAPI.dll. You can find this, along with ININ.Reporting.Historical.InteractionDetailsAPI.dll and QiHistoryInterfaceLib.dll, in your IC Business Manager Apps directory. This directory is typically C:\Program Files (x86)\Interactive Intelligence\BusinessManagerApps.

```
using System;
  using System.Collections.Generic;
  using System.Ling;
  using System.Text;
  using System.Data;
  using System.Data.SqlClient;
  using ININ.Reporting.Historical.InteractionDetailsAPI;
  using QiHistoryInterfaceLib;
  namespace InteractionDetailExample
  {
      class Program
          public static readonly string RAW DATA SOURCE = @"Data Source=YourSQLServerHere; Initial
Catalog=YourDatabaseHere;User Id=YourUserIdHere;password=YourPasswordHere;timeout=600";
          static void Main(string[] args)
          {
              DataSet dsRawInteractionDetailRecords = GetInteractionsDataSet();
              //Example 1:
              // This method will result in all the data queried from InteractionSegmentDetail be put into
memory; be cautious of this method if you're
```

```
// quering a large quantity of data
              DataSet ds = ConvertSeqmentDetailToDataSet(dsRawInteractionDetailRecords);
              //continue here with using the resulting tables as necessary...
              //Example 2:
              // This method will return an IDataReader, which means that you can iteate through it, as in the
example code, without
              // loading the entire DataSet into memory at once.
              // Note the call to QiHistory.MultipleEventsToXML; this converts the string you see in
InteractionSegmentDetail.SegmentLog to XML.
              // The call to InteractionDetailsAPI.AddXMLData converts the XML to an array of 4 .Net
System.Data.DataTable objects.
             IDataReader dr = ConvertSegmentDetailToDataReader (dsRawInteractionDetailRecords);
             while (dr.Read())
                  string EventLogXML = QiHistory.MultipleEventsToXML(dr["SegmentLog"].ToString(), false,
false, QiHistory.eSchemaType.Localized);
                  DataTable[] dtDetails = InteractionDetailsAPI.AddXMLData(dr["interactionidkey"].ToString(),
EventLogXML);
                  //continue here with using the resulting tables as necessary...
             dr.Close();
          }
          static DataSet ConvertSegmentDetailToDataSet (DataSet dsDetailRecords)
             InteractionDetailsAPI.ReportProgress += new EventHandler<IntEventArgs>
(InteractionDetailsAPI ReportProgress);
             DataSet dsConvertedDetailRecords = InteractionDetailsAPI.GetAsDataSet(dsDetailRecords.Tables[0],
QiHistory.eSchemaType.Localized);
             return dsConvertedDetailRecords;
          static void InteractionDetailsAPI ReportProgress (object sender, IntEventArgs e)
              //report progress here if required
          static IDataReader ConvertSegmentDetailToDataReader (DataSet dsDetailRecords)
          {
              IDataReader drSource = GetInteractionsDataReader();
             return drSource;
          #region Utilities
          /// <summary>
          /// Gets some data from InteractionSegmentDetail
          /// </summary>
          /// <returns>A complete DataSet</returns>
         static DataSet GetInteractionsDataSet()
             DataSet dsRet = new DataSet();
             using (SqlConnection dbConnection = new SqlConnection(RAW DATA SOURCE))
                  string SQL = "SELECT top 10 InteractionIDKey, SegmentLog FROM InteractionSegmentDetail WHERE
((StartDateTimeUTC >= cast('2014-05-27 04:00:00.000' as DateTime)) AND (StartDateTimeUTC <= cast('2014-05-27
13:59:59.000' as DateTime)))";
                  using (SqlCommand dbCommand = new SqlCommand(SQL, dbConnection))
                      using (SqlDataAdapter dbAdapter = new SqlDataAdapter(dbCommand))
                         dbAdapter.Fill(dsRet, "Test");
                          return dsRet;
              }
          /// <summary>
          /// Gets some data from InteractionSegmentDetail
          /// </summary>
          /// <returns>an IDataReader for less memory intense processing</returns>
          static IDataReader GetInteractionsDataReader()
              string SQL = "SELECT top 10 InteractionIDKey, SegmentLog FROM InteractionSegmentDetail WHERE
((StartDateTimeUTC >= cast('2014-05-27 05:00:00.000' as DateTime)) AND (StartDateTimeUTC <= cast('2014-05-27
```

```
13:59:59.000' as DateTime)))";
        SqlConnection conn = new SqlConnection (RAW_DATA_SOURCE);
        SqlCommand cmd = new SqlCommand(SQL, conn);
        conn.Open();
        SqlDataReader dr = cmd.ExecuteReader();
        return dr;
      }
    #endregion
    }
}
```

Miscellaneous

Snoozed callback and interaction details

Examples of how snoozing a callback interaction affects Interaction Details are available in this KB article: https://genesyspartner.force.com/customercare/pkb_Home?id=kA50B000008R1ZSAU&l=en_US&fs=Search&pn=1

Switchover

In switchover-configured CIC servers, when the interaction reliability feature is enabled for email and chat interactions, we might log two records for the active interactions at the time of switchover in the Interaction Summary and Interaction Segment detail tables. When these interactions are logged with same Interaction ID key, the sequence number is incremented. Always use the interaction with higher value sequence number.

Here is how active interactions are processed by the CIC subsystem, Tracker Server, at the time of switchover or shutdown.

In the event of an IC shutdown with active interactions, Tracker Server attempts to salvage interaction segment data by writing into PMQ files in the PMQSegmentLogs directory. On the next restart, Tracker Server picks up those files and persists data in the database.

In the same way, Tracker Server also attempts to salvage interaction segment data during a switchover. Tracker Server attempts to capture as much interaction information as reliably as as possible. Since shutdown or switchover leaves the system in a flux state, Tracker Server uses default values for active interactions during shutdown. If real time values can't be determined, Tracker Server uses default values. For example, if segment data is flushed due to shutdown, Tracker Server uses the string 'SHUTDOWN' as default string data. For switchover, Tracker Server uses 'SWITCHOVER' as default string data. For integer values, Tracker Server uses '0' as the default value. For timestamp fields, it uses an unrealistic default value like '1969-12-31 19:00:00.000' or '1970-01-01 00:00:00.000(GMT).'

In the InteractionSummary table CallEventLog field, Tracker Server always appends a string at the end. This indicates if the data record was collected during shutdown or switchover, along with the timestamp indicating when the data record was dumped. It is approximately the same as the shutdown or switchover time.

09:42:24: Offering 09:42:24: Sent to user user1 09:42:24:Initializing 09:42:23: Sent to user user2 09:42:24: Internal Call:user1 09:42:24: Dialing 09:42:24: User Alert:user1 09:42:25: Alerting 09:42:25: Sent to station woprjr1 09:42:25: Connected 09:42:39: Disconnected [Remote Disconnect] 09:42:51: SHUTDOWN

In regular cases (not a shutdown or switchover), there is no such message. Administrators can use this field to determine if the data was collected during shutdown or switchover and be advised that data may not be completely correct. Tracker Server has done only a best possible attempt to salvage tracking data on active interactions.

Multiple ACW tasks

In your Call Center, if agents are going to do multiple After Call Work tasks after an ACD interaction, set these two server parameters to **true**. In this way, multiple After Call Work (ACW) segments are captured successfully in interaction Segment detail log.

Server Parameter Name	
StatServer_AllowMultipleACW	true
StatServer_AlwaysTrackACWForLastACDInteraction	true

Change Log

Date	Changes
09-January-2012	Updated Copyright and Trademark Information page.
13-March-2015	 Page 2: Segment detail data documentation. Renamed section and removed 2 bullet points. Pages 32-34: Interaction Detail API. Added new section. Page 35: Snoozed callback and interaction details. Added new section. Converted bullet point from page 2 to a paragraph and moved it. Made changes to client for transition to Interaction Desktop. Added CIC client section.
31-March-2015	Corrected typo on page 6.
28-July-2015	 CIC client Removed reference to Interaction Client .NET Edition. Removed from boilerplate: Starting with CIC 2015 R3, Interaction Desktop replaces Interaction Client .NET Edition as the primary CIC client. Schema and table detail Verified name of CIC Data Dictionary Technical Reference in CIC 2015 R3 Doc Library. Segment detail data in different interaction scenarios Verified screen captures against 2016 R1 server.
16-Febuary-2016	 In the "How CIC generates segments" section, added "Park" to the "Segment Type" table. In the "Segment Details: End Codes" section, added "Park" to the "End Code" table. Added the "Park scenario" section. Updated Copyright and Trademark Information page.
12-January-2017	Converted to HTML format.
25-April-2017	Updated documentation to reflect the removal of Interaction Client Web Edition.
05-May-2019	Reorganized the content only, which included combining some topics and deleting others that just had an introductory sentence such as, "In this section" For more details, see <u>https://devjira.inin.com/browse/CICDOC-180.</u>