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Service Client API Reference

Service Client API

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Learn how to use the Service Client API to customize the way your web application integrates with Agent Workspace.

Important

Depending on your environment, you might need to contact your Genesys representative to complete the configuration described on this page.

Use the Service Client API to customize how your web application or website integrates with Agent Workspace. This JavaScript API is based on `window.postMessage` and provides methods your application can use to communicate cross domain with Agent Workspace while maintaining secured isolation.

Getting started

Here's an overview of the steps to access the API:

1. You have a web application that you've integrated in Agent Workspace. See [Enabling integration of web applications in the agent interface](#).
2. Download the sample application from [GitHub](#).
3. Copy the **wws-service-client-api.js** file in the sample application to a location your web application can access.
4. Set configuration options related to security. See [Security configuration](#).
5. Review [Working with the API](#) for more information about how to use the API.
6. Review the methods and types available in each namespace:
 - Agent Namespace
 - Configuration Namespace
 - Email Namespace
 - Interaction Namespace
 - Media Namespace
 - System Namespace
 - Voice Namespace
 - Outbound Namespace
 - Auth Namespace
 - Messenger Namespace

7. See Common actions with Service Client API for ideas about how to use the API.

Security configuration

The Service Client API involves two parties inside the agent's web browser: the service (the main web page) and the client (in an iframe on the same web page as the service). In order for the client web page to access the API, you need to set a few configuration options to work around web browser security restrictions for cross-origin requests and to enable request limits. You set these options on the **WWEWS Cluster** application only at the Application level; you can't set these options at the Agent or Agent Group level. Check out the Enabling the Service Client API topic in the *Workspace Web Edition Configuration Guide* for a full list of the options available to configure the API.

Origin

First, to work around web browser security restrictions set the `service-client-api.accepted-web-content-origins` option to the domain you want to be able to access to the API. For example, if you want to give access to a web page located at `http://my-web-server/path/page.html`, then you would set **`service-client-api.accepted-web-content-origins`** to `http://my-web-server`.

If you have several pages that need access to the API and they're located at different domains, you can also provide **`service-client-api.accepted-web-content-origins`** with a list. For example: `http://my-web-server, http://my-second-web-server, http://my-third-web-server`.

Finally, if you want to allow *any* page to access the API, just set **`service-client-api.accepted-web-content-origins`** to `*`.

You can also set the **`service-client-api.accepted-web-content-origins`** option to values that filter by API request, using any of the following keywords:

- `agent.get`
- `agent.getState`
- `agent.getStateList`
- `agent.setState`
- `email.create`
- `interaction.deleteUserData`
- `interaction.getByInteractionId`
- `interaction.getInteractions`
- `interaction.selectCaseByCaseId`
- `interaction.setUserData`
- `interaction.singleStepTransfer(interactionId, targetQuery, userData, extensions, succeeded, failed)`
- `interaction.singleStepConference(interactionId, targetQuery, userData, extensions, succeeded, failed)`
- `interaction.consult(interactionId, targetQuery, userData, extensions, succeeded, failed)`
- `interaction.completeTransfer(consultInteractionId, succeeded, failed)`

-
- `interaction.completeConference(consultInteractionId, succeeded, failed)`
 - `media.getMediaList`
 - `media.setState`
 - `voice.dial`
 - `voice.dialEx(destination, userData, extensions, succeeded, failed)`
 - `voice.pauseCallRecording`
 - `voice.resumeCallRecording`
 - `voice.startCallRecording`
 - `voice.stopCallRecording`

For example, you could set **`service-client-api.accepted-web-content-origins`** to `http://my-web-server0`, `http://my-web-server1 (*)`, `http://my-web-server2 (agent.*, voice.dial)`, `http://my-web-server3 (agent.*, interaction.*)`. In this example, everything is allowed for the `http://my-web-server0` and `http://my-web-server1`. For the `http://my-web-server2` domain, only the `agent.get`, `agent.getStateList`, `agent.setState`, `agent.getState` and `voice.dial` requests are allowed.

As seen in the example above, you can also filter by wildcards, using the asterisk in parenthesis. For example, `http://my-web-server1 (*)` or `http://my-web-server3 (agent.*, interaction.*)`.

Rate Limit

You can limit the maximum number of requests per minute on any Service Client API request by setting the `service-client-api.rate-limit` option. For example, setting the value to 50 would restrict the number of requests to 50 per minute. Set the value to 0 for unlimited requests.

If you want to limit the maximum number of requests per minute on a particular Service Client API request, use `service-client-api.rate-limit.`.

Consider the following sample configuration:

```
service-client-api.rate-limit=0
service-client-api.rate-limit.voice.dial=4
service-client-api.rate-limit.email.create=2
```

In this example, there are no limits globally, but `voice.dial` requests are limited to 4 requests per minute and `email.create` requests are limited to 2 requests per minute.

Workspace calculates the limitation as a fixed interval of time, each minute (this is not calculated on a costly sliding window).

When the number of requests reaches the limit, Workspace ignores all further requests of the same type for a configurable period of time, known as the quarantine delay. In response, Workspace Web Edition sends a result with an explicit error message to the first request it receives after the limit is reached:

```
{
  "errorMessage": "The rate limit for the request 'voice.dial' has been reached.\nFurther requests of the same type will be ignored for 30 seconds.",
  "request": "agent.getState"
```

```
}
```

To specify the global quarantine delay, set the `service-client-api.rate-limit-quarantine-delay` option. For example, setting the option to 60 means that Workspace Web Edition ignores requests for 60 seconds after the limit is reached. A value of 0 means that Workspace Web Edition ignores further requests forever, so use this value carefully.

Attached Data Access

Workspace offers two configuration options to limit the read or write access to the key/value pairs in user data:

- `service-client-api.user-data.write-allowed` specifies the list of keys in user data that can be written with the `interaction.setUserData()` or `interaction.deleteUserData()` functions.
- `service-client-api.user-data.read-allowed` specifies the list of keys in user data that can be read. This applies in the `userData` property of the `interaction.deleteUserData()` object returned by a function or an event.

For example, consider the following configuration:

```
service-client-api.user-data.write-allowed=Key1,Key3  
service-client-api.user-data.read-allowed=Key1,Key2,Key3
```

This configuration lets you read the attached data with they keys Key1, Key2, and Key3, but only allows writes on keys Key1, and Key3.

Working with the API

After you've completed the setup and security steps, you're ready to start working with the Service Client API. The first thing you need to do is add a tag to your web application that points to the **ww-service-client-api.js** file (remember, you stored it somewhere accessible in Step 3 above).

Now you can access the API through the **genesys.ww.service** namespace. For example:

```
Hello world
```

Here's an example of how you could modify attached data:

```
genesys.ww.service.interaction.setUserData(  
  "1",  
  {  
    MyKEY1: "MyValue1",  
    MyKEY2: "MyValue2"  
  }  
)
```

In the above example, the request is `interaction.setUserData` and the parameters are the `interactionId` of 1 and the `keyValues` of `MyKEY1` and `MyKEY2`. All methods provided in the Service Client API are asynchronous, so to get the successful or failed result, just add the matching callback:

```
genesys.wwe.service.interaction.setUserData(
  "1",
  {
    MyKEY1: "MyValue1",
    MyKEY2: "MyValue2"
  },
  function(result){
    console.debug("SUCCEEDED, result: " + JSON.stringify(result, null, '\t'));
  },
  function(result){
    console.debug("FAILED, result: " + JSON.stringify(result, null, '\t'));
  }
)
```

The global template for a service call is:

```
genesys.wwe.service.<(<... function parameters ...>, [, []]);
```

The `done()` callback is called when a request is successfully sent without an error.

The `fail()` callback is called when a request generates an error or an exception.

The result of these functions is provided in a JSON object as a unique parameter.

Notifications

Warning

You must call `genesys.wwe.service.subscribe` only once.

You can use the following code to subscribe to **agent** and **interaction** notifications:

```
function eventHandler(message) {
  console.debug("Event: " + JSON.stringify(message, null, '\t'));
}

genesys.wwe.service.subscribe([ "agent", "interaction" ], eventHandler, context);
```

In the above example, `eventHandler` is the event handler function and `context` is an optional contextual object. Here's an example with an agent `STATE_CHANGED` to `Ready`:

```
{
  "event": "agent",
  "data": {
```

```

    "eventType": "STATE_CHANGED",
    "mediaState": "READY"
  }
}

```

Here's an example with an agent `STATE_CHANGED` to Not Ready with a reason:

```

{
  "event": "agent",
  "data": {
    "eventType": "STATE_CHANGED",
    "mediaState": "NOT_READY_ACTION_CODE",
    "reason": "Break",
    "reasonCode": "1511"
  }
}

```

Finally, here's an example with an `ATTACHED_DATA_CHANGED` event on a voice interaction:

```

{
  "event": "interaction",
  "data": {
    "eventType": "ATTACHED_DATA_CHANGED",
    "media": "voice",
    "interaction": {
      "interactionId": "1",
      "caseId": "4ddalab6-aeab-4a33-f5d0-0153c9fdb43b",
      "userData": {
        "IWAttachedDataInformation": {
          "DispositionCode.Label": "DispositionCode",
          "Option.interaction.case-data.header-foreground-
color": "#FFFFFF",
          "CaseDataBusinessAttribute": "CaseData",
          "DispositionCode.Key": "ChooseDisposition",
          "Option.interaction.case-data.frame-color": "#17849D"
        },
        "IW_CaseUid": "4ddalab6-aeab-4a33-f5d0-0153c9fdb43b",
        "IW_BundleUid": "dfaca66c-4149-42a1-7244-337e949a12b5"
      },
      "parties": [
        {
          "name": "5001"
        }
      ],
      "callUuid": "4L6JGNEE9H7DT671FRPTKE6CQ000000G",
      "state": "DIALING",
      "previousState": "UNKNOWN",
      "isConsultation": false,
      "direction": "OUT",
      "callType": "Internal",
      "dnis": "5001",
      "isMainCaseInteraction": true
    }
  }
}

```

Event Type references

The system eventType field can be one of the following:

eventType	Description
CUSTOM_TOAST_BUTTON_CLICK	<p>Uses the following parameters:</p> <ul style="list-style-type: none"> • customToastId: The identifier of the toast where the button has been clicked. The identifier is returned by the popupToast method. • buttonIndex: The index of the clicked button. The index starts by 0.
REALTIME_CONNECTION	<p>Uses the following parameters:</p> <ul style="list-style-type: none"> • state: The attribute can take any of the following values: <ul style="list-style-type: none"> • DISCONNECTED - The real-time connection with the Genesys Web Services server is disconnected. • RECONNECTED - The real-time connection with the Genesys Web Services server is established after a disconnection. • DOWN - The real-time connection with the Genesys Web Services server is down for more than one minute due to server inactivity. In this situation, we can consider the session as <i>Down</i>.

The interaction eventType field can be one of the following:

eventType	Description
Common events to all interaction types	
UNKNOWN	An unknown event occurs.
ADDED	The interaction has been added in the list of interactions.
REMOVED	The interaction has been removed from the list of interactions.
ATTACHED_DATA_CHANGED	The attached data have changed in the interaction.
CASE_OR_BUNDLE_ID_CHANGED	The case or the bundle identifier of this interaction has changed.
CASE_ID_CHANGED	The case identifier of this interaction has changed.
NEW_MESSAGE	This event represents a new message.
ERROR	An error occurs in the interaction.
CONTACT_CHANGED	A contact associated with the interaction is fully or partially modified.
Voice events	
CALL_RECORDING_STATE_CHANGED	The call recording state changed.

eventType	Description
DIALING	The outbound call starts ringing.
ESTABLISHED	The call has been established.
HELD	The call has been held.
PARTY_CHANGED	The list of party has been changed in the interaction.
RELEASED	The call has been released.
RINGING	The inbound call starts ringing.
OpenMedia events	
ACCEPTED	The open media interaction is accepted.
COMPLETED	The open media interaction has been completed (Mark as done).
COMPOSING	The open media interaction is in composing mode.
CREATED	The open media interaction has been created.
INSERT_STANDARD_RESPONSE	A standard response has been inserted in the interaction.
INVITED	The open media interaction is an invitation.
INVITED_CONFERENCE	The open media interaction receive a conference invitation.
IN_QUEUE_FAILED	The place in queue has failed.
IN_WORKBIN	The interaction has been placed in the work-bin.
IN_WORKBIN_FAILED	The place in work-bin has failed.
LEFT_CONFERENCE	The open media interaction has left the conference.
PULLED	The open media interaction has been pulled from a work-bin.
PULL_FAILED	The pull from the queue has failed.
PULL_WORKBIN_FAILED	The pull from the work-bin has failed.
REVOKED	The open media interaction has been revoked.
TRANSFER_COMPLETED	The open media interaction has been transferred and the transfer has been completed.
Chat events (inherit from OpenMedia events)	
CANCELED	The interaction is already accepted in another chat session.
ENDED	The chat has been ended.
JOIN_FAILED	The connection with the chat server failed.
JOIN_PENDING	The interaction is trying to join the chat session.
Outbound email events (inherit from OpenMedia events)	
CANCELLED	The outbound email has been cancelled.
SENT	The outbound email has been sent.

Outbound events

The **Outbound preview events** table lists the SCAPI event details for Pull Preview, Push Preview and Direct Push Preview records.

Outbound preview events

Mode	UI Event	Event Type	State	Call Type	Capabilities
Pull Preview	Preview record received	ADDED	PREVIEWING	OUTBOUND_PREVIEW	CALL, REJECT_RECORD, CANCEL_RECORD
		PREVIEWING	PREVIEWING	OUTBOUND_PREVIEW	CALL, REJECT_RECORD, CANCEL_RECORD
	Make call from preview	ADDED	DIALING	OUTBOUND	HANGUP
		DIALING	DIALING	OUTBOUND	HANGUP
		REMOVED	IDLE	OUTBOUND_PREVIEW	
	Release and mark done	RELEASED	IDLE	OUTBOUND	MARK_DONE
		MARKDONE_APPLY	IDLE	OUTBOUND	MARK_DONE
		REMOVED	IDLE	OUTBOUND	-
	Reject record	STATE_CHANGE	REJECTED	OUTBOUND_PREVIEW	MARK_DONE
	Cancel record	STATE_CHANGE	CANCELED	OUTBOUND_PREVIEW	MARK_DONE
Regular Push Preview	Record received	ADDED	INVITED	OUTBOUND_PUSH_PREVIEW	ACCEPT, REJECT
		INVITED	INVITED	OUTBOUND_PUSH_PREVIEW	ACCEPT, REJECT
	Accepted	PREVIEWING	PREVIEWING	OUTBOUND_PUSH_PREVIEW	CALL, REJECT_RECORD, CANCEL_RECORD
	Rejected	REMOVED	REJECTED	OUTBOUND_PUSH_PREVIEW	
	Make call	ADDED	DIALING	OUTBOUND	HANGUP
		DIALING	DIALING	OUTBOUND	HANGUP
		ESTABLISHED	TALKING	OUTBOUND	HANGUP, HOLD
	Release and mark done	RELEASED	IDLE	OUTBOUND	MARK_DONE
		MARKDONE_APPLY	IDLE	OUTBOUND	MARK_DONE
		REMOVED	IDLE	OUTBOUND_PUSH_PREVIEW	
REMOVED		IDLE	OUTBOUND	-	
Reject record	STATE_CHANGE	REJECTED	OUTBOUND_PUSH_PREVIEW	MARK_DONE	
Cancel record	STATE_CHANGE	CANCELED	OUTBOUND_PUSH_PREVIEW	MARK_DONE	
Direct Push Preview	Record received	ADDED	INVITED	OUTBOUND_PREVIEW	ACCEPT, REJECT
		INVITED	INVITED	OUTBOUND_PREVIEW	ACCEPT, REJECT
	Accepted	PREVIEWING	PREVIEWING	OUTBOUND_PREVIEW	CALL,

Mode	UI Event	Event Type	State	Call Type	Capabilities
					REJECT_RECORD, CANCEL_RECORD
	Rejected	REMOVED	REJECTED	OUTBOUND_PREVIEW	
	Make call	ADDED	DIALING	OUTBOUND	HANGUP
		DIALING	DIALING	OUTBOUND	HANGUP
		ESTABLISHED	TALKING	OUTBOUND	HANGUP
		REMOVED	IDLE	OUTBOUND_PREVIEW	
	Release and mark done	RELEASED	IDLE	OUTBOUND	MARK_DONE
		MARKDONE_APPLYIDLE		OUTBOUND	MARK_DONE
		REMOVED	IDLE	OUTBOUND	-
	Reject record	STATE_CHANGE	REJECTED	OUTBOUND_PREVIEW	MARK_DONE
	Cancel record	STATE_CHANGE	CANCELED	OUTBOUND_PREVIEW	MARK_DONE

The **Outbound campaign events** table lists the possible events for outbound campaigns.

Outbound campaign events

EventType	Trigger	Example
CampaignLoaded	When an outbound campaign is loaded.	<pre>{ "event": "outbound", "data": { "eventType": "CampaignLoaded", "campaign": "Offer of the Month" }, "userAgent": "WWE Server", "protocolVersion": 2 }</pre>
CampaignUnloaded	When an outbound campaign is unloaded.	<pre>{ "event": "outbound", "data": { "eventType": "CampaignUnloaded", "campaign": "Offer of the Month" }, "userAgent": "WWE Server", "protocolVersion": 2 }</pre>
CampaignStarted	When an outbound campaign starts.	<p>This event also has a "mode" property that describes the mode in which the campaign started.</p> <pre>{</pre>

EventType	Trigger	Example
		<pre> "event": "outbound", "data": { "eventType": "CampaignStarted", "campaign": "Offer of the Month", "mode": "Predictive GVP" }, "userAgent": "WWE Server", "protocolVersion": 2 } </pre>
CampaignStopped	When an outbound campaign stops.	<pre> { "event": "outbound", "data": { "eventType": "CampaignStopped", "campaign": "Offer of the Month" }, "userAgent": "WWE Server", "protocolVersion": 2 } </pre>

Chain of records events

The RECORDS_RETRIEVED event is triggered on an outbound interaction when all of the records in the interaction's chain of records have been retrieved.

Sample response

```

{
  "event": "interaction",
  "data": {
    "eventType": "RECORDS_RETRIEVED",
    "interaction": {
      "interactionId": "1",
      "caseId": "a26f59d2-2979-43c5-5c1d-b0757f9ab077",
      "parentInteractionId": null,
      "chainedRecords": [
        {
          Custom_Character: "c"
          Custom_Datetime: "2021-03-17 14:42:39"
          Custom_Float: "16.64"
          Custom_Integer: 0
          Custom_String_with_default: "Hi there!"
          Custom_VarChar: ""
          GSW_AGENT_ID: "+33298025000"
          GSW_APPLICATION_ID: 139
          GSW_ATTEMPTS: 0
          GSW_CALLING_LIST: "Calling List Custom"
          GSW_CALLING_LIST_DBID: 101
          GSW_CALL_ATTEMPT_GUID: "003DC7H6HG84DBRT1KMIF1TAES000031"
        }
      ]
    }
  }
}

```

```

    GSW_CALL_RESULT: 28
    GSW_CAMPAIGN_GROUP_DBID: 101
    GSW_CAMPAIGN_GROUP_DESCRIPTION: ""
    GSW_CAMPAIGN_GROUP_NAME: "Outbound Campaign Custom@Agent Group Outbound"
    GSW_CAMPAIGN_NAME: "Outbound Campaign Custom"
    GSW_CHAIN_ID: 3
    GSW_CONTACT_MEDIA_TYPE: "voice"
    GSW_FROM: 0
    GSW_PHONE: "+33647005"
    GSW_PHONE_TYPE: 1
    GSW_RECORD_HANDLE: 283
    GSW_REFERENCE_ID: 3
    GSW_SWITCH_DBID: 101
    GSW_TZ_NAME: "ACT"
    GSW_TZ_OFFSET: 34200
    GSW_UNTIL: 86399
    GSW_USER_EVENT: "PreviewRecord"
    IW_BundleUid: "27458420-0348-4345-c693-45bd95b5c81f"
    IW_CaseUid: "a26f59d2-2979-43c5-5c1d-b0757f9ab077"
    InteractionSubtype: "OutboundNew"
    InteractionType: "Outbound"
    WWE_OUTBOUND_CAMP_TYPE: "PreviewRecord"
  },
  {
    Custom_Character: "c"
    Custom_Datetime: "2021-03-17 14:42:32"
    Custom_Float: "51.69"
    Custom_Integer: 0
    Custom_String_with_default: "Hello General Kenobi"
    Custom_VarChar: ""
    GSW_AGENT_ID: "+33298025000"
    GSW_APPLICATION_ID: 139
    GSW_ATTEMPTS: 0
    GSW_CALLING_LIST: "Calling List Custom"
    GSW_CALLING_LIST_DBID: 101
    GSW_CALL_ATTEMPT_GUID: "003DC7H6HG84DBRT1KMIF1TAES000031"
    GSW_CALL_RESULT: 28
    GSW_CAMPAIGN_GROUP_DBID: 101
    GSW_CAMPAIGN_GROUP_DESCRIPTION: ""
    GSW_CAMPAIGN_GROUP_NAME: "Outbound Campaign Custom@Agent Group Outbound"
    GSW_CAMPAIGN_NAME: "Outbound Campaign Custom"
    GSW_CHAIN_ID: 3
    GSW_CONTACT_MEDIA_TYPE: "voice"
    GSW_FROM: 0
    GSW_PHONE: "+33647004"
    GSW_PHONE_TYPE: 1
    GSW_RECORD_HANDLE: 284
    GSW_REFERENCE_ID: 4
    GSW_SWITCH_DBID: 101
    GSW_TZ_NAME: "ACT"
    GSW_TZ_OFFSET: 34200
    GSW_UNTIL: 86399
    GSW_USER_EVENT: "ChainedRecord"
    InteractionSubtype: "OutboundNew"
    InteractionType: "Outbound"
  }
],
"userData": {
  "GSW_PHONE": "+33647005",
  "GSW_PHONE_TYPE": "1",
  "Custom_Character": "c",
  "Custom_Datetime": "2021-03-17 14:42:39",
  "Custom_Float": "16.64",

```

```

    "Custom_Integer": "0",
    "Custom_String_with_default": "Hi there! ",
    "Custom_VarChar": "",
    "GSW_FROM": "0",
    "GSW_UNTIL": "86399",
    "GSW_TZ_OFFSET": "34200",
    "GSW_CALLING_LIST": "Calling List Custom",
    "GSW_CAMPAIGN_NAME": "Outbound Campaign Custom",
    "InteractionType": "Outbound",
    "InteractionSubtype": "OutboundNew",
    "GSW_RECORD_HANDLE": "283",
    "GSW_APPLICATION_ID": "139",
    "GSW_CAMPAIGN_GROUP_DBID": "101",
    "GSW_CALLING_LIST_DBID": "101",
    "GSW_CAMPAIGN_GROUP_NAME": "Outbound Campaign Custom@Agent Group Outbound",
    "GSW_CAMPAIGN_GROUP_DESCRIPTION": "",
    "GSW_CHAIN_ID": "3",
    "GSW_ATTEMPTS": "0",
    "GSW_CALL_RESULT": "28",
    "GSW_TZ_NAME": "ACT",
    "GSW_CALL_ATTEMPT_GUID": "003DC7H6HG84DBRT1KMIF1TAES000031",
    "GSW_CONTACT_MEDIA_TYPE": "voice",
    "GSW_REFERENCE_ID": "3",
    "GSW_SWITCH_DBID": "101",
    "GSW_USER_EVENT": "PreviewRecord",
    "GSW_AGENT_ID": "+33298025000",
    "WWE_OUTBOUND_CAMP_TYPE": "PreviewRecord",
    "IW_BundleUid": "27458420-0348-4345-c693-45bd95b5c81f",
    "IW_CaseUid": "a26f59d2-2979-43c5-5c1d-b0757f9ab077"
  },
  "state": "PREVIEWING",
  "previousState": "UNKNOWN",
  "capabilities": [
    "CALL",
    "REJECT_RECORD",
    "CANCEL_RECORD"
  ],
  "parties": [
    {
      "name": "+33647005"
    }
  ],
  "startDate": null,
  "endDate": null,
  "callType": "OUTBOUND_PREVIEW",
  "isMainCaseInteraction": true,
  "isCaseSelected": true,
  "isCaseExpanded": false
}
},
"userAgent": "WWE Server",
"protocolVersion": 2
}

```

Common actions with Service Client API

The following sections show some common actions you can perform with Service Client API:

Controlling call recording from a third-party application

Review the following methods for details about call recording control:

- `pauseCallRecording`
- `resumeCallRecording`
- `startCallRecording`
- `stopCallRecording`

The call recording state is stored in the `recordingState` attribute on the `interaction.Interaction` object.

Embedding multiple third-party applications in Agent Workspace

You can configure Agent Workspace to include more than one third-party web application, displayed as either a tab, a popup window, in the background at the interaction level, or hidden. Configure the following options:

- Set the `interaction.web-content` option to a list of option section names that correspond to web extension views.
- Make sure that the `service-client-api.accepted-web-content-origins` option references all the websites that should use the Service Client API.

Updating attached data from a third-party application

Review the following methods for details about updating attached data:

- `deleteUserData`
- `getByInteractionId`
- `getInteractions`
- `setUserData`

The user data is stored in the `userData` attribute on the `interaction.Interaction` object.

You should also set the options related to user data in the Service Client section of Agent Setup or configure the `service-client-api.user-data.read-allowed` and `service-client-api.user-data.write-allowed` options.

Enabling click-to-dial from a third-party application

If you configure Agent Workspace to display your web application in a new tab in the Agent Workspace user interface, then the service API only gives access to the dial operation.

Enabling Service Client API to invoke toast in Agent Workspace

Review the following methods for details about enabling and updating toast:

-
- system.popupToast
 - system.updateToast
 - system.closeToast

Controlling case selection from a third-party application

Review the following method for details about case selecting control:

- selectCaseByCaseId

The case selection state is stored in the *isCaseSelected* attribute and the *isCaseExpanded* attribute on the **interaction.Interaction** object.

Supporting multiple browser tabs

Service Client API supports multiple browser tabs in a session. The API uses the concept of a leader tab and following tab or tabs. When multiple tabs are open, certain actions (typically automatic) are performed only by the leader tab, such as auto-answer for chat, email, and voice interactions, and contact management in Universal Contact Server. The API also tracks which tab was the last active because some actions are performed only by this tab, such as sounds, toasts, and supervisor-forced log out.

The state of a given browser tab is determined by an internal election process, which can be triggered when an agent closes a leader tab. The state is exposed through the **data.frameState** property on system events. The **frameState** property has three possible values:

- LEADING: The election happened and this tab is the leader.
- FOLLOWING: The election happened and this tab is a follower.
- NEGOTIATING: The election is in progress and no tab is a leader or follower until the election is finished.

You can subscribe to system events as follows:

```
function eventHandler(message) {
  switch (message.event) {
    case 'system':
      log('Received system event: ', JSON.stringify(message, null, '\t'));
      break;
    default:
      break;
  }
}
```

```
genesys.wwe.service.subscribe(['system'], eventHandler, this);
```

When an election is triggered, you should see these types of system events:

```
Received system event:
{
  "event": "system",
  "data": {
    "frameState": "LEADING"
  },
  "userAgent": "WWE Server",
```

```
    "protocolVersion": 2
  }
```

Received system event:

```
{
  "event": "system",
  "data": {
    "frameState": "NEGOTIATING"
  },
  "userAgent": "WWE Server",
  "protocolVersion": 2
}
```

Service Client API provides some helper functions through the System namespace to determine the state of a tab:

- `isFrameLeading`
- `isFrameFollowing`
- `isFrameNegotiating`
- `isFrameLeadingOrNegotiating`
- `isLastActiveFrame`

Service Client API updates the attached data for an interaction in the leader tab with a new **caseId** on eventType `CASE_ID_CHANGED`.

```
{
  "event": "interaction",
  "data": {
    "eventType": "CASE_ID_CHANGED",
    "caseId": "e6470563-af78-4942-657d-976a25dd9de3",
    "previousCaseId": "5f7e5f3a-fb6e-43f3-c404-eaee21d64ef1"
  },
  "userAgent": "WWE Server",
  "protocolVersion": 2
}
```