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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 Desktop.

Important

You must contact your Genesys representative to configure Agent Desktop to use the Service Client API.

Use the Service Client API to customize how your web application or website integrates with Agent Desktop. This JavaScript API is based on `window.postMessage` and provides methods your application can use to communicate cross domain with Agent Desktop 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 Desktop—contact your Genesys representative to enable integration of web applications in Agent Desktop.
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—contact your Genesys representative to provision this 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 **Note:** You must work with your Genesys representative to enable and use this part of the Service Client API.
 - Email Namespace
 - Interaction Namespace
 - Media Namespace
 - System Namespace
 - Voice Namespace

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- Outbound Namespace
 - Auth Namespace

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

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 **wwe-service-client-api.js** file (remember, you stored it somewhere accessible in Step 3 above).

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

```
Hello world
```

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

```
genesys.wwe.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

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 <code>popupToast</code> method. buttonIndex: The index of the clicked button. The index starts by 0. |

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. |
| Voice events | |

| eventType | Description |
|---|--|
| CALL_RECORDING_STATE_CHANGED | The call recording state changed. |
| 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) | |
| 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> |

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 Desktop

You can now set the `interaction.web-content` option to a list of option section names that correspond to web extension views. This means that you can configure Agent Desktop 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.

You should also make sure that the `service-client-api.accepted-web-content-origins` option references all the websites that should use the Service Client API.

Contact your Genesys representative to enable embedding multiple third-party applications in Agent Desktop.

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 be sure to configure the options related to user data in the Service Client section of Agent Setup to enable read and write access to user data.

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

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

Enabling Service Client API to invoke toast in Agent Desktop

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
}
```