

Open CTI Developer Guide

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CONTENTS

Chapter I: Introducing Open CII
When to Use Open CTI
Open CTI Support Policy
Backward Compatibility
API Support
Other Resources
Open CTI Typographical Conventions
Sample HTMLPage Using Open CTI
Chapter 2: Call Center Definition Files
Call Center Definition File XML Format
Required Call Center Elements and Attributes
Optional Call Center Elements and Attributes
Specifying Values for <item> Elements</item>
Sample Call Center Definition File
Charatan O Washin a with On an CTI
Chapter 3: Working with Open CTI
Connecting to Open CTI
Asynchronous Calls with Open CTI
Working with Force.com Canvas
Best Practices
Best Practices Chapter 4: Methods for Salesforce Application Interaction getPageInfo() isInConsole() isVisible() notifyInitializationComplete() onFocus() 15 16 17 18 19 19 19 19 10 10 11 11 11 12 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18
Best Practices Chapter 4: Methods for Salesforce Application Interaction getPageInfo() isInConsole() isVisible() notifyInitializationComplete() onFocus() refreshPage() 15 Chapter 4: Methods for Salesforce Application Interaction 16 17 18 19 19 19 19 19 10 10 10 10 10
Best Practices
Best Practices Chapter 4: Methods for Salesforce Application Interaction getPageInfo() isInConsole() isVisible() notifyInitializationComplete() onFocus() refreshPage() refreshRelatedList() reloadFrame() 15 Chapter 4: Methods for Salesforce Application Interaction 16 17 18 19 19 19 19 10 11 11 12 12 12 13 14 15 16 17 18 18 18 19 19 19 19 19 19 19
Best Practices
Best Practices 15 Chapter 4: Methods for Salesforce Application Interaction 16 getPageInfo() 17 isInConsole() 18 isVisible() 19 notifyInitializationComplete() 21 onFocus() 21 refreshPage() 23 refreshRelatedList() 24 reloadFrame() 26 runApex() 26 saveLog() 28
Best Practices
Best Practices 15 Chapter 4: Methods for Salesforce Application Interaction 16 getPageInfo() 17 isInConsole() 18 isVisible() 19 notifyInitializationComplete() 21 onFocus() 21 refreshPage() 23 refreshRelatedList() 24 reloadFrame() 26 runApex() 26 saveLog() 28 screenPop() 29 searchAndGetScreenPopUrl() 31
Best Practices 15 Chapter 4: Methods for Salesforce Application Interaction 16 getPageInfo() 17 isInConsole() 18 isVisible() 19 notifyInitializationComplete() 21 onFocus() 21 refreshPage() 23 refreshRelatedList() 24 reloadFrame() 26 runApex() 26 saveLog() 28 screenPop() 29 searchAndGetScreenPopUrl() 31 searchAndScreenPop() 32
Best Practices 15 Chapter 4: Methods for Salesforce Application Interaction 16 getPageInfo() 17 isInConsole() 18 isVisible() 19 notifyInitializationComplete() 21 onFocus() 21 refreshPage() 23 refreshRelatedList() 24 reloadFrame() 26 runApex() 26 saveLog() 28 screenPop() 29 searchAndGetScreenPopUrl() 31 searchAndScreenPop() 32 refreshObject() 34
Best Practices 15 Chapter 4: Methods for Salesforce Application Interaction 16 getPageInfo() 17 isInConsole() 18 isVisible() 19 notifyInitializationComplete() 21 onFocus() 21 refreshPage() 23 refreshRelatedList() 24 reloadFrame() 26 runApex() 26 saveLog() 28 screenPop() 29 searchAndGetScreenPopUrl() 31 searchAndScreenPop() 32

Contents

Chapter 5: Methods for Computer-Telephony Integration (CTI)
lisableClickToDial()
nableClickToDial()
etCallCenterSettings()
etDirectoryNumbers()
etSoftphoneLayout()
nClickToDial()
etSoftphoneHeight()
etSoftphoneWidth()
Chapter 6: Glossary
ndex

CHAPTER 1 Introducing Open CTI

Salesforce CRM Call Center seamlessly integrates Salesforce with third-party computer-telephony integration (CTI) systems. Before the introduction of Open CTI, Salesforce users could only use the features of a CTI system after they installed a CTI adapter program on their machines. Yet such programs often included desktop software that required maintenance and didn't offer the benefits of cloud architecture. Open CTI lets developers:

- Build CTI systems that integrate with Salesforce without the use of CTI adapters.
- Create customizable SoftPhones (call-control tools) that function as fully integrated parts of Salesforce and the Salesforce console.
- Provide users with CTI systems that are browser and platform agnostic, for example, CTI for Microsoft[®] Internet Explorer[®], Mozilla[®] Firefox[®], Apple[®] Safari[®], or Google Chrome[™] on Mac, Linux, or Windows machines.

To use this guide, it helps if you have a basic familiarity with:

- CTI
- JavaScript
- Visualforce
- Web services
- Software development
- The Salesforce console
- Salesforce CRM Call Center

EDITIONS

Salesforce console available in Salesforce Classic and App Launcher in Lightning Experience. Setup for Salesforce console available in Salesforce Classic.

Available in: **Enterprise**, **Performance**, **Unlimited**, and **Developer** Editions with the Service Cloud

Available in: **Performance** and **Developer** Editions with the Sales Cloud

Available in: **Enterprise** and **Unlimited** Editions with the Sales Cloud for an extra cost

This guide explains how to use Open CTI in JavaScript to embed API calls and processes. Open CTI is only available for use with JavaScript pages; the examples in this guide are in JavaScript. The functionality it describes is available to your organization if you have Professional, Enterprise, Unlimited, Performance, or Developer Edition.

Open CTI is a browser-based JavaScript API. It uses browsers as clients to display SoftPhones. Open CTI:

- Matches the API version for any given release. For example, if the current version of SOAP API is 25.0, then there's also a version 25.0 of Open CTI.
- Supports the following minimum browser requirements: Internet Explorer 8; Firefox 3.6; Safari 4; or Chrome 11.0.

When to Use Open CTI

Open CTI helps advanced administrators and developers build and integrate third-party computer-telephony integration (CTI) systems with Salesforce so that Salesforce users can use a SoftPhone without installing CTI adapters on their machines. For example, you can use Open CTI to integrate custom SoftPhones with Salesforce so that users can access the features of a CTI system without having to download and install client applications. Open CTI is an API that uses browsers as clients to display CTI functionality in Salesforce.

The following table lists additional features that developers can use to implement custom functionality for Salesforce organizations.

Introducing Open CTI Support Policy

Feature	Description
SOAP API	Use standard SOAP API calls if you want to add functionality to a composite application that processes only one type of record at a time and does not require any transactional control (such as setting a Savepoint or rolling back changes).
	For more information, see the SOAP API Developer's Guide.
Visualforce	Visualforce consists of a tag-based markup language that gives developers a more powerful way of building applications and customizing the Salesforce user interface. With Visualforce you can:
	Build wizards and other multistep processes.
	Create your own custom flow control through an application.
	• Define navigation patterns and data-specific rules for optimal, efficient application interaction.
	For more information, see the <i>Visualforce Developer's Guide</i> .
Salesforce Console Integration Toolkit	The Salesforce Console Integration Toolkit lets you implement custom functionality for the Salesforce console. For example, you can use the Salesforce Console Integration Toolkit to display Visualforce pages or third-party content as tabs in the Salesforce console. The Salesforce Console Integration Toolkit is an API that uses browsers as clients to display pages in the console.
Apex	Use Apex if you want to:
	Create Web services.
	Create email services.
	Perform complex validation over multiple objects.
	Create complex business processes that are not supported by workflow.
	• Create custom transactional logic (logic that occurs over the entire transaction, not just with a single record or object).
	• Attach custom logic to another operation, such as saving a record, so that it occurs whenever the operation is executed, regardless of whether it originates in the user interface, a Visualforce page, or from SOAP API.
	For more information, see the <i>Apex Developer Guide</i> .

Open CTI Support Policy

The current release of Open CTI is the only version that receives enhancements. Previous versions might or might not receive fixes. When a new version is released, the previous version remains available.

Backward Compatibility

Salesforce strives to make backward compatibility easy when using Open CTI.

Each new Salesforce release consists of two components:

- A new release of platform software that resides on Salesforce systems
- A new version of the API

Introducing Open CTI API Support

For example, the Summer '12 release included API version 25.0 and the Winter '13 release included API version 26.0.

The version of Open CTI matches the API version for any given release. So if the current version of the API is 26.0, there's also a version 26.0 of Open CTI.

We maintain support for each Open CTI version across releases of the platform. Open CTI is backward compatible in that an application created to work with a given Open CTI version will continue to work with that same Open CTI version in future platform releases.

Salesforce doesn't guarantee that an application written against one Open CTI version will work with future Open CTI versions: Changes in method signatures and data representations are often required as we continue to enhance Open CTI. However, we strive to keep Open CTI consistent from version to version with minimal changes required to port applications to newer Open CTI versions.

For example, an application written using Open CTI version 25.0, which shipped with the Summer '12 release, will continue to work with Open CTI version 25.0 on the Winter '13 release and on future releases. However, that same application might not work with Open CTI version 26.0 without modifications to the application.

API Support

Salesforce is committed to supporting each Open CTI version for a minimum of three years from the date of its first release. To improve the quality and performance of Open CTI, versions that are more than three years old might not be supported.

When a Open CTI version is scheduled to be unsupported, a no-longer-available notice will be given at least one year before support for the version ends. Salesforce will directly notify customers using Open CTI versions that will no longer be available.

Other Resources

In addition to this guide, there are other resources available for you as you learn how to use Open CTI:

- Online help: See Call Center Overview and Salesforce Console
- Developer website: https://developer.salesforce.com/gettingstarted
- Firebug extension to Firefox: Firebug for Firefox



Note: Salesforce Education Services offers a suite of training courses to enable developers to design, create, integrate, and extend applications built on the Force.com platform. Be sure to visit http://www.salesforce.com/training to learn more.

Open CTI Typographical Conventions

The Open CTI guide uses the following typographical conventions:

Convention	Description	
Courier font	In descriptions of syntax, monospace font indicates items that you should type as shown, except for brackets. For example:	
	Public class HelloWorld	

Convention	Description	
Italics	In descriptions of syntax, italics represent variables. You supply the actual value. In the following example, three values need to be supplied: $datatype\ variable_name\ [=value];$	
	If the syntax is bold and italic, the text represents a code element that needs a value supplied by you, such as a class name or variable value:	
	<pre>public static class YourClassHere { }</pre>	
Bold Courier font	In code samples and syntax descriptions, bold courier font emphasizes a portion of the code or syntax.	
<>	In descriptions of syntax, less-than and greater-than symbols (< >) are typed exactly as shown.	
	<pre><apex:pageblocktable value="{!account.Contacts}" var="contact"></apex:pageblocktable></pre>	
	<pre><apex:column value="{!contact.Name}"></apex:column> <apex:column value="{!contact.MailingCity}"></apex:column> <apex:column value="{!contact.Phone}"></apex:column> </pre>	
{}	In descriptions of syntax, braces ({ }) are typed exactly as shown.	
	<apex:page> Hello {!\$User.FirstName}! </apex:page>	
[]	In descriptions of syntax, anything included in brackets is optional. In the following example, specifying value is optional:	
	<pre>data_type variable_name [= value];</pre>	
I	In descriptions of syntax, the pipe sign means "or". You can do one of the following (not all). In the following example, you can create a new unpopulated set in one of two ways, or you can populate the set:	
	<pre>Set<data_type> set_name [= new Set<data_type>();] [= new Set<data_type{value ;<="" [,="" pre="" value2]="" ="" };]=""></data_type{value></data_type></data_type></pre>	

Sample HTMLPage Using Open CTI

This example shows how to add CTI functionality to the Salesforce user interface using Open CTI. It assumes that you've already imported a call center definition file into your Salesforce organization.

- 1. Create an HTML page.
- **2.** Cut and paste the following sample code into your HTML page.

This code demonstrates various functions of Open CTI:

```
<ht.ml>
<head>
      <!-- Imports Open CTI JavaScript library. It should point to a valid Salesforce
domain. -->
     <script src="https://domain:port/support/api/25.0/interaction.js"></script>
     <script type="text/javascript">
             // Callback of API method: isInConsole
             var isInConsoleCallback = function (response) {
                  // Returns true if method is executed in Salesforce console, false
otherwise.
                  if (response.result) {
                      alert('SoftPhone is in Salesforce console.');
                  } else {
                      alert('SoftPhone is not in Salesforce console.');
              };
              // Invokes API method: isInConsole
              function isInConsole() {
                      sforce.interaction.isInConsole(isInConsoleCallback);
              }
              // Callback of API method: getCallCenterSettings
              var getCallCenterSettingsCallback = function (response) {
                     // Result returns call center settings as a JSON string.
                     if (response.result) {
                            alert(response.result);
                     } else {
                            alert('Error retrieving call center settings ' +
response.error);
               // Invokes API method: getCallCenterSettings
               function getCallCenterSettings() {
sforce.interaction.cti.getCallCenterSettings(getCallCenterSettingsCallback);
               // Callback of API method: setSoftphoneHeight
              var setSoftphoneHeightCallback = function (response) {
                       // Returns true if SoftPhone height was set successfully, false
otherwise.
               if (response.result) {
                       alert('Setting SoftPhone height to 300px was successful.');
               } else {
                      alert('Setting softphone height failed.');
               };
               // Invokes setSoftphoneHeight API method.
               function setSoftphoneHeight() {
                       sforce.interaction.cti.setSoftphoneHeight(300,
setSoftphoneHeightCallback);
               // Callback of API method: getPageInfo
               var getPageInfoCallback = function (response) {
                      if (response.result) {
```

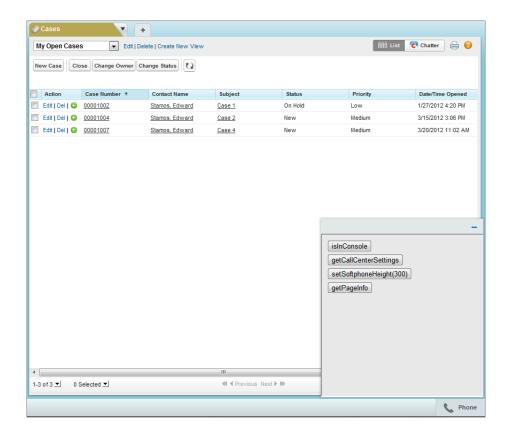
```
alert(response.result);
                      } else {
                             alert('Error occured while trying to get page info: ' +
response.error);
                      }
               // Invokes API method getPageInfo
               function getPageInfo() {
                       sforce.interaction.getPageInfo(getPageInfoCallback);
      </script>
</head>
<body>
      <button onclick="isInConsole();">isInConsole</button></br>
      <button onclick="getCallCenterSettings();">getCallCenterSettings</button></br>
      <button onclick="setSoftphoneHeight();">setSoftphoneHeight(300)/button>
      <button onclick="getPageInfo();">getPageInfo</button>
</body>
</html>
```

After you create the above HTML page, and add the URL to the call center definition file, the SoftPhone will be rendered on the left in Salesforce, or as custom console component in the Salesforce console:

Home Chatter Profile Groups Files Leads Accounts Contacts Cases Opportunities Reports Dashboards Cases isInConsole Home getCallCenterSettings Tell me more! | Help for this Page @ setSoftphoneHeight(300) View: My Open Cases ▼ Go! Edit | Create New View getPageInfo **Recent Cases** Recently Viewed -New Case Number Subject Date/Time Opened Priority 3/20/2012 11:01 AM 00001006 Case 5 Medium 00001007 3/20/2012 11:02 AM Case 4 00001004 Case 2 3/15/2012 3:06 PM Medium 00001002 1/27/2012 4:20 PM Low Case 1

Output of Sample HTML Page in Salesforce

Output of Sample HTML Page in the Salesforce Console



CHAPTER 2 Call Center Definition Files

A call center definition file specifies a set of fields and values that are used to define a call center in Salesforce for a particular SoftPhone. Salesforce uses call center definition files in order to support the integration of Salesforce CRM Call Center with multiple CTI system vendors.

A call center in Salesforce CRM Call Center must have a call center definition file that works specifically with a SoftPhone. If you build a custom SoftPhone with Open CTI, you must write a call center definition file to support it. The first instance of a call center for a particular SoftPhone must be defined by importing the adapter's call center definition file into Salesforce. Subsequent call centers can be created by cloning the original call center that was created with the import.

If your organization modifies a SoftPhone or builds a new one, you must customize the SoftPhone's call center definition file so that it includes any additional call center information that is required. For example, if you are building a SoftPhone for a system that supports a backup server, your call center definition file should include fields for the backup server's IP address and port number. SoftPhones for systems that do not make use of a backup server do not need those fields in their associated call center definition files.

Use a text or XML editor to define a call center definition file according to the guidelines in the following topics.



Note: For more information on setting up Salesforce CRM Call Center or importing and cloning call definition files, see "Setting Up Salesforce CRM Call Center" and "Creating a Call Center" in the Salesforce online help.

Call Center Definition File XML Format

A call center definition file consists of three XML elements: callCenter, section, and item. The following list provides details about the properties and attributes of each element:

callCenter

This element represents a definition for a single call center phone system. At least one <callCenter> element must be included in every call center definition file. A <callCenter> element consists of one or more <section> elements.

section

This element represents a grouping of related data fields, such as server information or dialing prefixes. When a call center is edited in Salesforce, fields are organized by the section to which they are assigned. A section> element belongs to a single <callCenter> element, and consists of one or more <item> elements.

Attributes:

Name	Туре	Required?	Description
sortOrder	Positive Integer	Required	The order in which the section should appear when the call center is edited in Salesforce. For example, a section with sortOrder="1" comes just before a section with sortOrder="2".
			The values for sortOrder must be non-negative integers, and no numbers can be skipped within a single call center definition. For example, if there are three section elements in a call center definition file, one <section> element must have sortOrder="0", one <section> element must have</section></section>

Name	Туре	Required?	Description
			$\verb sortOrder="1", and one < \verb section> element must have \\ \verb sortOrder="2". $
name	String	Required	The internal name of the section as defined in the Salesforce database. You can use this value to refer to the section when writing custom adapter or SoftPhone code.
			Names must be composed of only alphanumeric characters with no white space or other punctuation. They are limited to 40 characters each.
			Names beginning with req are reserved for required Salesforce sections only (see "Required Call Center Elements and Attributes" in the Salesforce Help). Other reserved words that cannot be used for the name attribute include label, sortOrder, internalNameLabel, and displayNameLabel.
label	String	Optional	The name of the section when viewed in Salesforce. Labels can be composed of any string of UTF-8 characters. They are limited to 1000 characters each.

item

This element represents a single field in a call center definition, such as the IP address of a primary server or the dialing prefix for international calls. When call centers are edited in Salesforce, each <item> element is listed under the section to which it belongs. You can have multiple <item> elements in a <section> element.

Attributes:

Name	Туре	Required?	Description
sortOrder	Positive Integer	Required	The order in which the item should appear when the call center is edited in Salesforce. For example, an item with sortOrder="1" comes just before an item with sortOrder="2".
			The values for sortOrder must be non-negative integers, and no numbers can be skipped within a single call center definition. For example, if there are three item elements in a call center definition file, one <item> element must have sortOrder="0", one <item> element must have sortOrder="1", and one <item> element must have sortOrder="1", and one <item> element must have sortOrder="2".</item></item></item></item>
name	String	Required	The internal name of the item as defined in the Salesforce database. You can use this value to refer to the item when writing custom adapter or SoftPhone code.
			Names must be composed of only alphanumeric characters with no white space or other punctuation. They are limited to 40 characters each.

Name	Туре	Required?	Description
			Names beginning with req are reserved for required Salesforce sections only (see "Required Call Center Elements and Attributes" in the Salesforce Help). Other reserved words that cannot be used for the name attribute include label, sortOrder, internalNameLabel, and displayNameLabel.
label	String	Optional	The name of the item when viewed in Salesforce. Labels can be composed of any string of UTF-8 characters. They are limited to 1,000 characters each.

Required Call Center Elements and Attributes

There must be one section> that includes <item> elements with the following names in every call definition file:

Description
Represents the unique identifier for the call center in the database. It must have a sortOrder value of 0, and its value must be specified in the call center definition. A value for reqInternalName must be composed of no more than 40 alphanumeric characters with no white space or other punctuation. It must start with an alphabetic character and must be unique from the reqInternalName of all other call centers defined in your organization.
Represents the name of the call center as displayed in Salesforce. It must have a sortOrder value of 1. A value for reqDisplayName has a maximum length of 1,000 UTF-8 characters.
Represents the location of where the CTI adapter or SoftPhone is hosted. For example, http://localhost:11000. Note that relative URLs are allowed for Visualforce pages, for example,: /apex/softphone. Also, if you add Force.com Canvas applications to Open CTI, those apps can trump reqAdapterUrl when specified.
Represents that the call center is using Open CTI (true) or not (false).
Represents the height of the SoftPhone in pixels as displayed in Salesforce.
Represents the width of the SoftPhone in pixels as displayed in Salesforce.
Represents the namespace associated with any Force.com Canvas applications added to your call center. Required if you add canvas apps to Open CTI.
Represents the API name associated with any Force.com Canvas applications added to your call center. Required if you add canvas apps to Open CTI.

You can add additional <item> elements to this section if needed.

Optional Call Center Elements and Attributes

In addition to the required elements for a call definition file, you can add optional elements to configure a SoftPhone.

<item> Name</item>	Description
reqStandbyUrl	Represents the location that hosts the secondary SoftPhone. The standby SoftPhone is used after the timeout period for the primary SoftPhone has elapsed and the notifyInitializationComplete() method hasn't been called within the required timeout period. When you specify a standby URL, you must also specify the reqTimeout field.
reqTimeout	Represents the time in milliseconds after which the standby URL is used to host the SoftPhone. Before the timeout period has elapsed, the SoftPhone displays a loading icon indicating that the SoftPhone is initializing. When you specify a required timeout, you must also specify the reqStandbyUrl field.

Specifying Values for <item> Elements

With the exception of the reqInternalName <item>, whose value must always be specified in a call center definition file, you can specify <item> values either in the call center definition file or in Salesforce once the definition file has been imported.

To specify a value for an <item> element in a call center definition file, place the value between the opening and closing tags of the <item>. For example:

```
<item sortOrder="0" name="reqInternalName" label="Call Center Internal
Label">MyCallCenter</item>
```

sets the value of the reqInternalName <item> to MyCallCenter. Note that any <item> value other than the value for reqInternalName can be edited in Salesforce after the call center definition is imported.

Sample Call Center Definition File

The following XML code makes up a sample call center definition file:

```
All sections and items whose name value begins with "req" are
    required in a valid call center definition file. The sortOrder
    and label attributes can be changed for all required sections
    and items except regGeneralInfo, regInternalName, and
    reqDisplayName, in which only the label attribute can be altered.
  Note that the value for the reqInternalName item is limited to
    40 alphanumeric characters and must start with an alphabetic
    character. reqInternalName must be unique for all call centers
    that you define.
-->
<callCenter>
  <section sortOrder="0" name="reqGeneralInfo" label="General Information">
   <item sortOrder="0" name="reqInternalName" label="InternalNameAAA">DemoAdapter</item>
   <item sortOrder="1" name="reqDisplayName" label="Display Name">Demo Call Center
Adapter</item>
   <item sortOrder="2" name="reqAdapterUrl" label="CTI Adapter</pre>
URL">https://c.force.com/softphone</item>
```

CHAPTER 3 Working with Open CTI

Use Open CTI to do the following in Salesforce:

- Set the height or width of a SoftPhone
- Enable or disable click-to-dial
- Return a call center definition file's settings
- Determine if a user is in the Salesforce console
- Show or hide a SoftPhone in the Salesforce console
- Return information about a page
- Execute an Apex method from an Apex class that's exposed in Salesforce
- Save or update an object in Salesforce
- Search keywords in Salesforce and screen pop any matching records as defined in a SoftPhone layout

Connecting to Open CTI

The first portion of any JavaScript code that uses the Open CTI must make the toolkit available to the JavaScript code. The syntax for this is different depending on whether you are embedding JavaScript in a Visualforce page, or a third-party domain.

• For Visualforce pages or any source other than a custom onclick JavaScript button, specify a <script> tag that points to the Open CTI file:

For Visualforce, a relative path is sufficient to include integration.js, and is recommended.

For a third-party domain:

```
<script src="https://c.na1.visual.force.com/support/api/36.0/interaction.js"
type="text/javascript"></script>
```

For third-party domains, it is necessary to specify an absolute URL to interaction.js to use the toolkit. The default instance at which you can access the toolkit library is:

https://c.nal.visual.force.com/support/api/36.0/interaction.js. We recommend that you use the default instance when the organization's instance cannot be determined.

The version of Open CTI is in the URL.

Asynchronous Calls with Open CTI

Open CTI lets you issue asynchronous calls. Asynchronous calls allow the client-side process to continue instead of waiting for a callback from the server. To issue an asynchronous call, you must include an additional parameter with the API call, referred to as a callback function. Once the result is ready, the server invokes the callback method with the result.

Asynchronous syntax:

```
method('arg1','arg2', ..., callback_method);
```

For example:

```
//Set SoftPhone height
sforce.interaction.cti.setSoftphoneHeight(300, callback);
```



Note: The call result depends on the execution context. For example, calling setSoftphoneWidth() in the standard Salesforce application has no effect, but calling setSoftphoneWidth() in the Salesforce console resizes the width of the SoftPhone.

Working with Force.com Canvas

To integrate Open CTI with external applications that require authentication methods, such as signed requests or OAuth 2.0 protocols, Salesforce recommends you use Force.com Canvas.

Force.com Canvas and Open CTI are similar—they're a set of tools and JavaScript APIs that developers can use to add third-party systems to Salesforce. However, one of the benefits of Force.com Canvas, is the ability to choose authentication methods. For more information, see the *Force.com Canvas Developer's Guide*.



Note: For a canvas app to appear in a Salesforce console, you must add it to the console as a custom console component. See Add Console Components to Apps.

When developing a canvas app, and you want to include functionality from Open CTI, do the following:

- 1. Include the Open CTI API in index.jsp.
- 2. Call Sfdc.canvas.client.signedrequest() to store the signed request needed by the console integration toolkit API. For example, if the Force.com Canvas method of authentication is a signed request, do the following:

```
Sfdc.canvas.client.signedrequest('<%=signedRequest%>')
```

If the Force.com Canvas method of authentication is OAuth, do the following in the callback function used to get the context as shown in "Getting Context in Your Canvas App" in the Force.com Canvas Developer's Guide:

```
Sfdc.canvas.client.signedrequest(msg)
```

Consider the following when working with Open CTI and canvas apps:

- The Open CTI API script depends on the signed request and should be added after the call to Sfdc.canvas.client.signedrequest() has executed. We recommend that you load the scripts dynamically.
- To retrieve the entity ID of the record that is associated with the canvas sidebar component, do the following:

```
// Get signedRequest
var signedRequest = Sfdc.canvas.client.signedrequest();
var parsedRequest = JSON.parse(signedRequest);
```

Working with Open CTI Best Practices

```
// get the entity Id that is associated with this canvas sidebar component.
var entityId = parsedRequest.context.environment.parameters.entityId;
```

To retrieve the entityId for OAuth, do the following:

```
var entityId = msg.payload.environment.parameters.entityId;
```

To see an example on how to retrieve msg.payload, see "Getting Context in Your Canvas App" in the Force.com Canvas Developer's Guide.

Best Practices

- Since many of the methods in Open CTI are asynchronous and return their results using a callback method, Salesforce recommends that you refer to the documentation for each method to understand the information for each response.
- Errors generated by Open CTI are typically emitted in a way that doesn't halt JavaScript processing. Therefore, Salesforce recommends you use a tool such as Firebug for Firefox to monitor the JavaScript console and to help you debug your code.
- For information on customizing, extending, or integrating the sidebars of the Salesforce console using Visualforce, see "Console Components" in the Salesforce online help.

CHAPTER 4 Methods for Salesforce Application Interaction

Open CTI lets your CTI system interact with the Salesforce application.

You can use the following methods to set interactions between a CTI system and Salesforce, or between elements on a Case Feed page:

CTI Methods

Method	Description
<pre>getPageInfo()</pre>	Returns information about the current page as a JSON string.
isInConsole()	Indicates if the SoftPhone is in the Salesforce console. For more information, see "Salesforce Console" in the Salesforce online help.
isVisible()	Returns true if the SoftPhone is visible or false if the SoftPhone is hidden.
<pre>notifyInitializationComplete()</pre>	Notifies Salesforce that the SoftPhone initialization is complete and that Salesforce should not switch to a standby URL. While the SoftPhone initializes, a loading icon displays in the SoftPhone area.
onFocus()	Registers a function to call when the browser focus changes. In the Salesforce console, the browser focus changes when a user navigates between primary tabs or the navigation tab.
refreshPage()	Returns true if page refresh is invoked, false otherwise. When this method is called within the Salesforce console, it refreshes the current active tab.
refreshRelatedList()	Returns true if the related list with the given listName is refreshed, false otherwise. When this method is called within the Salesforce console, only the related list with the given list name in the currently focused view will be refreshed.
reloadFrame()	Reloads the frame that contains the page making the call.
runApex()	Executes an Apex method from an Apex class that's exposed in Salesforce.
saveLog()	Saves or updates an object in Salesforce.
screenPop()	Pops to a target URL, which must be relative.
searchAndGetScreenPopUrl()	Searches objects specified in the SoftPhone layout for a given string. Returns search results and the relative URL to be screen popped. Note that this method does not perform an actual screen pop. This method respects screen pop settings defined in the SoftPhone layout. For more information, see "Designing a Custom SoftPhone Layout" in the Salesforce online help.
searchAndScreenPop()	Searches objects specified in the SoftPhone layout for a given string. Returns search results and screen pops any matching records. This method respects screen pop settings defined in the SoftPhone layout.
setVisible()	Shows or hides the SoftPhone in the Salesforce console. For more information, see "Salesforce Console" in the Salesforce online help.

CTI Methods

Case Feed Methods	
onObjectUpdate()	Registers a function to call when case fields, the case feed, or case-related list data has changed on a Case Feed page.
refreshObject()	Notifies the Case Feed page that case fields, the case feed, or case-related list data has changed, and forces an update of these on the page.

getPageInfo()

Usage

Returns information about the current page as a JSON string.

Syntax

```
sforce.interaction.getPageInfo(callback:function);
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
      var callback = function (response) {
           if (response.result) {
                  alert(response.result);
            } else {
                   alert(response.error);
        };
       function getPageInfo() {
                //Invokes API method
                sforce.interaction.getPageInfo(callback);
</script>
</head>
<body>
```

Response

Name	Туре	Description
result string	string	Returns the URL of the current page as a JSON string, and includes any applicable object ID, object name, object type, and for API version 33.0 or later, the object tab name. For example:
	<pre>{"url":"http://nal.salesforce.com/001x0000003DGQR", "objectId":"001x0000003DGQR","objectName":"Acme", "object":"Account","displayName":"Company"}</pre>	
		For API version 31.0 and later, invoking this API method on a PersonAccount object returns the following additional information.
		 accountld or contactld, the associated account or contact ID
		 personAccount, which is true if the object is a PersonAccount and false otherwise
		For example:
		<pre>{"url":"http://nal.salesforce.com/001x0000003DGQR", "objectId":"001x0000003DGQR","objectName":"Acme Person Account", "object":"Account", "contactId":"003D000000QOMqg", "personAccount":true}</pre>
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

isInConsole()

Usage

Indicates if the SoftPhone is in the Salesforce console. For more information, see "Salesforce Console" in the Salesforce online help.



Note: If this method is used in a Salesforce console where multi-monitor components is turned on, any popped out SoftPhone components are indicated as in the console. For more information, see "Turn on Multi-Monitor Components for a Salesforce Console" in the online help.

Syntax

sforce.interaction.isInConsole(callback:function)

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
  <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
              alert('User is in console.');
           }
           else {
              alert('User is not in console.');
        };
</script>
</head>
<body>
       <button onclick="sforce.interaction.isInConsole(callback);">isInConsole</button>
</body>
</html>
```

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	boolean	true if the SoftPhone was in the Salesforce console, false if the SoftPhone wasn't in the Salesforce console.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

isVisible()

Usage

Returns true if the SoftPhone is visible or false if the SoftPhone is hidden.

Syntax

```
sforce.interaction.isVisible(callback:function)
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
  <script type="text/javascript">
      var callback = function (response) {
           if (response.result) {
              alert('SoftPhone is visible');
           } else {
              alert('SoftPhone is not visible');
        };
   function isVisible() {
          sforce.interaction.isVisible(callback);
   }
</script>
</head>
<body>
       <button onclick="isVisible();">isVisible</button>
</body>
</html>
```

Response

Name	Туре	Description
result	boolean	true if the SoftPhone is visible, false if the SoftPhone isn't visible.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

notifyInitializationComplete()

Usage

Notifies Salesforce that the SoftPhone initialization is complete and that Salesforce should not switch to a standby URL. While the SoftPhone initializes, a loading icon displays in the SoftPhone area. To use a standby URL, you must specify it in the call center's definition file. For more information, see Optional Call Center Elements and Attributes on page 10.

Syntax

```
sforce.interaction.cti.notifyInitializationComplete()
```

Arguments

None.

Sample Code

Response

None.

onFocus()

Usage

Registers a function to call when the browser focus changes. In the Salesforce console, the browser focus changes when a user navigates between primary tabs or the navigation tab. See "Salesforce Console" in the Salesforce online help for more information.

Syntax

```
sforce.interaction.onFocus( listener:function );
```

Arguments

Name	Туре	Description
listener	function	JavaScript method called when the browser focus changes.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
  <script type="text/javascript">
      var callback = function (response) {
           if (response.result) {
                  alert(response.result);
           }
        };
       //Invokes API method
                sforce.interaction.onFocus(callback);
</script>
</head>
</body>
</html>
```

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result string	Returns the URL of the page in focus as a JSON string and includes any applicable object ID, object name, object type, and for API version 33.0 or later, the object tab name. For example:	
		<pre>{"url":"http://salesforce.com/001x0000003DGQR", "objectId":"001x0000003DGQR","objectName":"Acme", "object":"Account","displayName":"Company"}</pre>
		If the page isn't focused on an object, the object ID, object name, and object will be empty.
	For API version 31.0 and later, invoking this API method on a PersonAccount object returns the following additional information.	
		accountld or contactld, the associated account or contact ID

Name	Туре	Description
		 personAccount, which is true if the object is a PersonAccount and false otherwise
	For example:	
	<pre>{"url":"http://na1.salesforce.com/001x0000003DGQR", "objectId":"001x0000003DGQR","objectName":"Acme Person Account", "object":"Account", "contactId":"003D000000QOMqg", "personAccount":true}</pre>	
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

refreshPage()

Usage

Returns true if page refresh is invoked, false otherwise. When this method is called within the Salesforce console, it refreshes the current active tab. This method is only available in API version 28.0 or later.

Syntax

```
sforce.interaction.refreshPage(callback:function);
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

Response

Name	Туре	Description
result	boolean	Returns true if page refresh has been invoked, false otherwise.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

refreshRelatedList()

Usage

Returns true if the related list with the given listName is refreshed, false otherwise. When this method is called within the Salesforce console, only the related list with the given list name in the currently focused view will be refreshed. This method is only available in API version 28.0 or later.

Syntax

```
sforce.interaction.refreshRelatedList(listName:string, callback:function)
```

Arguments

Name	Туре	Description
listName	string	The name of the related list to refresh. For example, Contact for Contacts related list or Activity for Open Activities related list.
		Note that to refresh a custom related list created from a custom lookup field, listName must specify the ID of the custom lookup field.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
  <script type="text/javascript"</pre>
src="http://domain:port/support/api/28.0/interaction.js"></script>
  <script type="text/javascript">
       function checkRefreshResult(result) {
           if (result.result) {
                  alert('The related list is refreshed!');
            } else {
                   alert('Cannot refresh the related list with the given listName! Make
sure the listName is correct and the related list is on the page.');
          }
       }
       function refreshActivityRelatedList() {
                sforce.interaction.refreshRelatedList('Activity', checkRefreshResult);
        }
       function refreshHistoryRelatedList() {
                sforce.interaction.refreshRelatedList('History', checkRefreshResult);
        }
       function saveAndRefresh() {
               sforce.interaction.saveLog('Task',
'Subject=ImportantTask&WhatId=[15-character ID of an account to which you want to attach
the task]', function(result) {
           if (result.result) {
                 refreshActivityRelatedList();
            } else {
                  alert('Could not save the object! Check the developer console for error
messages.');
     });
</script>
</head>
<body>
      <button onclick="refreshHistoryRelatedList();">Refresh History Related List/button>
       <button onclick="saveAndRefresh();">Save and Refresh</button>
</body>
</html>
```

Response

Name	Туре	Description
result	boolean	Returns true if the related list with the given name is refreshed, false otherwise.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

Notes

- This method cannot refresh related lists created from <apex:relatedList>.
- This method cannot refresh a related list from an overridden Visualforce page in the Salesforce console.
- If called from within the Salesforce console, this method will only search for the related list to refresh in the currently focused view.

reloadFrame()

Reloads the frame that contains the page making the call. This method is available in API version 34.0 or later.

Syntax

```
sforce.interaction.entityFeed.reloadFrame()
```

Arguments

None.

Sample Code–JavaScript

Response

None.

runApex()

Usage

Executes an Apex method from an Apex class that's exposed in Salesforce. For more information, see "Apex Code Overview" in the Salesforce online help.

Syntax

```
sforce.interaction.runApex(apexClass:string, methodName:string, methodParams:string,
(optional) callback:function)
```

Arguments

Name	Туре	Description
apexClass	string	Specifies the Apex class of the method to execute.
methodName	string	Specifies the method to execute.
methodParams	string	Specifies the method parameters to pass. The string must include field value pairs and be formatted as a valid query string. For example:name=acme☎=(212) 555-555.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

1. An administrator creates an Apex class and Apex method (see the Salesforce online help for more information):

```
global class AccountRetrieval{
webService static String getAccount(String name) {
   List<Account> accounts = new List<Account>();
   for (Account account : Database.query('Select Id, Name, phone from Account where Name like\"' + name + '%\"')) {
      accounts.add(account);
   }
   String JSONString = JSON.serialize(accounts);
   return JSONString;
}
```

- 2. In the location where you've created the Apex class and method in Salesforce, click **Generate WSDL** to expose the method and class so that a third-party SoftPhone can call it.
- **3.** Add your code to the SoftPhone:

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
                  alert (response.result);
            } else {
                   alert(response.error);
        };
       function runApex() {
                //Invokes API method
             sforce.interaction.runApex('AccountRetrieval', 'getAccount', 'name=acme',
 callback);
</script>
```

4. Output is returned. In this example, one account named, Acme, was found:

```
[{"attributes":{"type":"Account",
"url":"/services/data/v25.0/sobjects/Account/001x0000003DGQRAA4"},
"Id":"001x0000003DGQRAA4","Name":"Acme","Phone":"(212) 555-5555"}]
```

Response

Name	Туре	Description
result	string	Returns the result from executing the method from the specified Apex class.
		No specific format is returned. The format is determined by the value from the method that was executed.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

saveLog()

Usage

Saves or updates an object in Salesforce.

Syntax

```
sforce.interaction.saveLog(object:string, saveParams:string, (optional)callback:function)
```

Arguments

Name	Туре	Description
object	string	The name of the object to save or update.
saveParams	string	Specifies the fields to save or update on the object.
		If the object's ID is specified, a record is updated. For example: Id=001D000000J6qIX&Name=Acme&Phone=4154561515. If the object's ID isn't specified, a new record is created. For example: Name=Acme&Phone=4154561515.

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
  <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
          if (response.result) {
                  alert(response.result);
           } else {
                  alert(response.error);
           }
       function saveLog() {
          //Invokes API method
             sforce.interaction.saveLog('Account','Name=NewAccountName&Phone=4155551212',
callback);
      }
</script>
</head>
  <button onclick="saveLog();">saveLog</button>
</html>
```

Response

Name	Туре	Description
result	boolean	true if saving or updating the object was successful, false if saving or updating the object wasn't successful.
id	string	The Id of the newly created object.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

screenPop()

Usage

Pops to a target URL, which must be relative.

Syntax

```
sforce.interaction.screenPop(url:string, force:boolean, (optional) callback:function)
```

Arguments

Name	Туре	Description
url	string	A relative URL, which specifies the location of the screen pop.
force	boolean	Set value to true to force a screen pop, false otherwise. This argument is only available in API version 28.0 and later.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/28.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
              alert('Screen pop was set successfully.');
           }
           else {
              alert('Screen pop failed.' + result.error);
           }
        };
       function screenPop() {
                //Invokes API method
                sforce.interaction.screenPop('/001x0000003DGQR', true, callback);
        }
</script>
</head>
<body>
       <!-- Note that '001x0000003DGQR' is an example of an object Id to screen pop. -->
       <button onclick="screenPop();">screen pop to entity Id</button>
</body>
</html>
```

Response

Name	Туре	Description
result	boolean	$\verb true if the screen pop was successful , \verb false if the screen pop wasn't successful .$
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

searchAndGetScreenPopUrl()

Usage

Searches objects specified in the SoftPhone layout for a given string. Returns search results and the relative URL to be screen popped. Note that this method does not perform an actual screen pop. This method respects screen pop settings defined in the SoftPhone layout. For more information, see "Designing a Custom SoftPhone Layout" in the Salesforce online help. This method is only available in API version 28.0 or later.

Syntax

sforce.interaction.searchAndGetScreenPopUrl(searchParams:string, queryParams:string,
callType:string, callback:function)

Arguments

Name	Туре	Description
searchParams	string	String to search.
queryParams	string	Specifies the query parameters to pass to the URL.
callType string	string	Specifies the type of call, such as inbound, outbound, internal, or null. Per the settings in the SoftPhone layout, the call type determines which objects to search for any matches. For more information, see "Designing a Custom SoftPhone Layout" in the Salesforce online help.
		If callType is null, searches are inbound by default. If callType is internal or outbound, no screen pops occur.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

Response

Name	Туре	Description
result string	string	Returns a list of objects that match the search results and the URL to the screen pop (screenPopUrl). The search is performed on the objects specified in the SoftPhone layout. For each object found, the object ID, field names, field values, and for API version 33.0 or later, object tab name are returned as a JSON string. The following is an example of searching for "Acme," and finding one Account and three Opportunity objects:
		<pre>{"006x0000001ZcyG":{"Name":"Acme - 600 Widgets","object":"Opportunity","displayName":"Opportunity"}, "001x0000003DQQR":{"Name":"Acme","Type":"Analyst","object":"Account", "displayName":"Company"}, "006x0000001ZcyH":{"Name":"Acme - 200 Widgets","object":"Opportunity","displayName":"Opportunity"}, "006x0000001ZcyF":{"Name":"Acme - 1,200 Widgets","object":"Opportunity","displayName":"Opportunity"}, screenPopUrl:"/search/SearchResults?searchType=2&str=Acme"}</pre>
		For API version 31.0 and later, invoking this API method on a PersonAccount object returns additional information:
		{"001D00000Jn5C5":{"Name":"PersonAccount","contactId":"003D0000000QQCEu", "Type":"Aralyst","dbject":"Account","displayName":"Account","personAccount":true}, "screenPopUrl":"/001D000000Jn5C5"}
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

searchAndScreenPop()

Usage

Searches objects specified in the SoftPhone layout for a given string. Returns search results and screen pops any matching records. This method respects screen pop settings defined in the SoftPhone layout. For more information, see "Designing a Custom SoftPhone Layout" in the Salesforce online help.

Syntax

```
sforce.interaction.searchAndScreenPop(searchParams:string, queryParams:string,
callType:string, (optional) callback:function);
```

Arguments

Name	Туре	Description
searchParams	string	String to search.
queryParams	string	Specifies the query parameters to pass to the URL.
callType	string	Specifies the type of call, such as inbound, outbound, internal, or null. Per the settings in the SoftPhone layout, the call type determines which objects to search for any matches. For more information, see "Designing a Custom SoftPhone Layout" in the Salesforce online help.
		If callType is null, searches are inbound by default. If callType is internal or outbound, no screen pops occur.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/33.0/interaction.js"></script>
  <script type="text/javascript">
      var callback = function (response) {
           if (response.result) {
                  alert(response.result);
            } else {
                   alert(response.error);
        };
       function searchAndScreenPop() {
                //Invokes API method
                sforce.interaction.searchAndScreenPop('Acme', 'Key1=value1&Key2=value2',
'inbound', callback);
</script>
</head>
<body>
       <button onclick="searchAndScreenPop();">searchAndScreenPop</button>
</body>
</html>
```

Response

Name	Туре	Description
result string	Returns a list of objects that match the search results. The search is performed on the objects specified in the SoftPhone layout. For each object found, the object ID, field names, field values, and for API version 33.0 or later, object tab names are returned as a JSON string.	
		The following is an example of searching for "Acme," and finding one Account and three Opportunity objects:
		<pre>{"006x000001ZcyG":{"Name":"Acme - 600 Widgets","object":"Opportunity","displayName":"Opportunity"}, "001x0000003DGQR":{"Name":"Acme","Type":"Analyst","object":"Account", "displayName":"Company"}, "006x0000001ZcyH":{"Name":"Acme - 200 Widgets","object":"Opportunity","displayName":"Opportunity"}, "006x000001ZcyF":{"Name":"Acme - 1,200 Widgets","object":"Opportunity","displayName":"Opportunity"}, screenPopUrl:"/search/SearchResults?searchType=2&str=Acme"}</pre>
		For API version 31.0 and later, invoking this API method on a PersonAccount object returns additional information:
		{"001D000000JWAW8":{"Name":"Acme","contactId":"003D000000QNwDB", "Type":"Analyst","object":"Account","personAccount":true}}
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

refreshObject()

Usage

Notifies the Case Feed page that case fields, the case feed, or case-related list data has changed, and forces an update of these on the page.



Note: Use this method with Visualforce pages you want to use as custom publishers in Case Feed.

Syntax

```
sforce.interaction.entityFeed.refreshObject(
   objectId:string,
   refreshFields:boolean,
   refreshRelatedLists:boolean,
   refreshFeed:boolean, callback:function)
```

Arguments

Name	Туре	Description
objectId	string	The record ID of the case object.
refreshFields	boolean	Indicates that one or more fields on the case have changed.
refreshRelatedLists	boolean	Indicates that one or more case-related lists have changed.
refreshFeed	boolean	Indicates that the case feed has changed.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	boolean	true if the Case Feed page was successfully updated, false if it was not.

setVisible()

Usage

Shows or hides the SoftPhone in the Salesforce console. For more information, see "Salesforce Console" in the Salesforce online help.



Note: If this method is used in a Salesforce console where multi-monitor components is turned on, an error will be returned. For more information, see "Turn on Multi-Monitor Components for a Salesforce Console" in the online help.

Syntax

```
sforce.interaction.setVisible(value:boolean, (optional) callback:function)
```

Arguments

Name	Туре	Description
value	boolean	Set value to true to show the SoftPhone or set value to false to hide the SoftPhone.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
              alert(response.result);
           } else {
              alert(response.error);
        };
   function setVisible(value) {
           sforce.interaction.setVisible(value, callback);
   }
</script>
</head>
<body>
       <button onclick="setVisible(false);">hide softphone</button>
</body>
</html>
```

Response

Name	Туре	Description
result	boolean	true if showing or hiding the SoftPhone succeeded, false if showing or hiding the SoftPhone didn't succeed.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

onObjectUpdate()

Usage

Registers a function to call when case fields, the case feed, or case-related list data has changed on a Case Feed page.



Note: Use this method with Visualforce pages you want to use as custom publishers in Case Feed.

Syntax

```
sforce.interaction.entityFeed.onObjectUpdate(callback:function)
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
fieldsUpdated	boolean	true if one or more case fields were updated.
relatedListsUpdated	boolean	true if one or more case related lists were updated.
feedUpdated	boolean	true if the case feed was updated.

CHAPTER 5 Methods for Computer-Telephony Integration (CTI)

Open CTI lets you integrate your CTI system with Salesforce. For more information about CTI, see "Call Center Overview" in the Salesforce online help.

Use the following methods to integrate a CTI system with Salesforce:

Method	Description
disableClickToDial()	Disables click-to-dial.
enableClickToDial()	Enables click-to-dial.
<pre>getCallCenterSettings()</pre>	Returns the call center settings in the call center definition file as a JSON string.
<pre>getDirectoryNumbers()</pre>	Returns the list of phone numbers from the call center's directory.
getSoftphoneLayout()	Returns the SoftPhone layout as a JSON string. For more information on SoftPhone layouts, see "Designing a Custom SoftPhone Layout" in the Salesforce online help.
onClickToDial()	Registers a function to call when a user clicks an enabled phone number.
setSoftphoneHeight()	Sets the SoftPhone height in pixels.
setSoftphoneWidth()	Sets the SoftPhone width in pixels for the Salesforce console. For more information, see "Salesforce Console" in the Salesforce online help.

disableClickToDial()

Usage

Disables click-to-dial.

Syntax

sforce.interaction.cti.disableClickToDial((optional) callback:function)

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
              alert('Click to dial was disabled.');
           } else {
              alert('Click to dial was not disabled.');
        };
        function disableClickToDial() {
   //Invokes API method
   sforce.interaction.cti.disableClickToDial(callback);
   }
</script>
</head>
<body>
  <button onclick="disableClickToDial();">disable click to dial/button>
</body>
</html>
```

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	boolean	true if click-to-dial was disabled, false if click-to-dial wasn't disabled.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

enableClickToDial()

Usage

Enables click-to-dial.

Syntax

```
sforce.interaction.cti.enableClickToDial( (optional) callback:function )
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
  <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
             alert('Click to dial was enabled.');
              alert('Click to dial was not enabled.');
        } ;
        function enableClickToDial() {
   //Invokes API method
   sforce.interaction.cti.enableClickToDial(callback);
</script>
</head>
<body>
  <button onclick="enableClickToDial();">enable click to dial/button>
</body>
</html>
```

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	boolean	true if click-to-dial was enabled, false if click-to-dial wasn't enabled.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

getCallCenterSettings()

Usage

Returns the call center settings in the call center definition file as a JSON string. For more information, see Call Center Definition Files on page 8.

Syntax

```
sforce.interaction.cti.getCallCenterSettings(callback:function)
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	string	If the API call was successful, the call center settings definition is returned as a JSON string. If the API call failed, null is returned.
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

getDirectoryNumbers()

Usage

Returns the list of phone numbers from the call center's directory. This method is only available in API version 31.0 or later.

Syntax

```
sforce.interaction.cti.getDirectoryNumbers(isGlobal:boolean, callCenterName:String,
(optional) callback:function, (optional) resultSetPage:Integer, (optional)
resultSetPageSize:Integer)
```

Arguments

Name	Туре	Description
isGlobal	boolean	Set the value to true to return a directory number from the global call center name, or set the value to false to return a directory number that is specific to a call center.
callCenterName	string	Specifies the call center name on which to return directory numbers. If isGlobal is set to false, and this field is not specified, all directory numbers are returned.
callback	function	JavaScript method called upon completion of the method.
resultSetPage	integer	Represents the page number of the list of results to return. This number starts at 0.
resultSetPageSize	integer	Sets the maximum number of phone numbers to retrieve, which is defaulted to 5000 and has a maximum number of 10000. If hasNext returns true in the callback, use this argument with resultSetPage to get the next page of results. For example, if resultSetPageSize is set to 5000, and resultSetPage is set to 0, the first 5000 phone numbers are returned. If resultSetPage is set to 1, the next 5000 phone numbers are returned.

Sample Code–JavaScript

Response

Name	Туре	Description
result	string	Returns a JSON string that represents the list of phone numbers from the specified call center name. Each phone number element contains a call center name, phone, and description. For example:
		<pre>{ directoryNumbers: [</pre>
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

getSoftphoneLayout()

Usage

Returns the SoftPhone layout as a JSON string. For more information on SoftPhone layouts, see "Designing a Custom SoftPhone Layout" in the Salesforce online help. This method is only available in API version 27.0 or later.

Syntax

```
sforce.interaction.cti.getSoftphoneLayout(callback:function);
```

Arguments

Name	Туре	Description
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	string	If the API call was successful, the SoftPhone layout definition is returned as a JSON string. If the API call failed, null is returned.
		The returned JSON string contains three elements that represent each of the call types:
		• "Internal"
		• "Inbound"
		• "Outbound"
		Each call-type contains three subsections:
		• "callRelatedFields"—An array of call-related fields selected to display. Possible values are "ANI", "DNIS", "SEGMENT", and "QUEUE".
		 "objects"—The set of Salesforce objects selected to display, along with the Field Label and Field Name (API name) selected to display from each object.
		 "screenPopSettings"—This object contains a "screenPopsOpenWithin" field with a value of either "ExistingWindow" or "NewWindow". Additionally, it contains the

Name Type Description

settings for each of the screen pop match types: "NoMatch",

"SingleMatch", "MultipleMatches". Each match type contains a
corresponding "screenPopType" field and may also contain a

"screenPopData" field. If "screenPopType" has a value of

"PopToEntity", then "screenPopData" contains the name of the
target object. If "screenPopType" has a value of

"PopToVisualforce", then "screenPopData" contains the name
of the target Visualforcepage. If "screenPopType" has a value of

"PopToSearch", then there won't be a "screenPopData" field.

The following is an example of a JSON response:

```
"Internal" : {
   "callRelatedFields" : [
   "ANI",
   "DNIS",
   "objects" : {
   "User" : [ {
     "displayName" : "Name",
     "apiName" : "Name"
   ]
   },
   "screenPopSettings" : {}
  "Inbound" : {
   "callRelatedFields" : [
   "ANI",
   "DNIS",
   "SEGMENT",
   "QUEUE"
  ],
   "objects" : {
   "Account" : [ {
     "displayName" : "Account Name",
     "apiName" : "Name"
     }
   ]
   },
   "screenPopSettings" : {
   "NoMatch" : {
    "screenPopType" : "PopToEntity",
    "screenPopData" : "Contact"
   },
   "SingleMatch" : {
    "screenPopType" : "PopToVisualforce",
    "screenPopData" : "Visualforce Page Name"
    },
```

Name	Туре	Description
		"MultipleMatches" : {
		"screenPopType" : "PopToSearch"
		}
		}
		},
		"Outbound" : {
		"callRelatedFields" : [
		"DNIS"
		1,
		"objects" : {
		"Account" : [{
		"displayName" : "Account Name",
		"apiName" : "Name"
		}
]
		},
		"screenPopSettings" : {}
		}
		}
error	string or undefined	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

onClickToDial()

Usage

Registers a function to call when a user clicks an enabled phone number.

Syntax

```
sforce.interaction.cti.onClickToDial( listener:function )
```

Arguments

Name	Туре	Description
listener	function	JavaScript method called when the user clicks a phone number.

Sample Code–JavaScript

```
<html>
<head>
<script type="text/javascript"
```

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	string	Returns the phone number, object ID, the name of the object, and for API version 33.0 or later, the object tab name from where the click was initiated as a JSON string. For example:
		{"number":"4155551212","objectId":"001x0000003DIGj","objectName":"Account", "displayName":"Company"}
		For API version 33.0 or later, invoking this API method on a PersonAccount object returns the following additional information.
		 accountld or contactld, the associated account or contact ID
		 personAccount, which is true if the object is a PersonAccount and false otherwise
		For example:
		<pre>{"number":"4155551212", "object Id":"001D000000JWVvP", "objectName":"Howard Jones", "object":"Account", "personAccount":true, "contactId":" 003D000000QOBPX"}</pre>
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

setSoftphoneHeight()

Usage

Sets the SoftPhone height in pixels.



Note: If this method is used in a Salesforce console where multi-monitor components is turned on, an error will be returned because resizing multi-monitor component is not allowed. For more information, see "Turn on Multi-Monitor Components for a Salesforce Console" in the online help.

Syntax

```
sforce.interaction.cti.setSoftphoneHeight(height:number, (optional) callback:function)
```

Arguments

Name	Туре	Description
height	number	SoftPhone height in pixels. The height should be a number that's equal or greater than 0.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
              alert('Height was set successfully.');
           }
           else {
              alert('Height was not set successfully.');
        };
</script>
</head>
<body>
       <button onclick="sforce.interaction.cti.setSoftphoneHeight(200, callback);">
       set softphone height to 200px
       </button>
</body>
</html>
```

Response

Name	Туре	Description
result	boolean	true if the height was set successfully, false if setting the height wasn't successful.

Name	Туре	Description
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

setSoftphoneWidth()

Usage

Sets the SoftPhone width in pixels for the Salesforce console. For more information, see "Salesforce Console" in the Salesforce online help.



Note: If this method is used in a Salesforce console where multi-monitor components is turned on, an error will be returned because resizing multi-monitor component is not allowed. For more information, see "Turn on Multi-Monitor Components for a Salesforce Console" in the online help.

Syntax

```
sforce.interaction.cti.setSoftphoneWidth(width:number, (optional) callback:function)
```

Arguments

Name	Туре	Description
width	number	SoftPhone width in pixels. The width should be a number that's equal or greater than 0.
callback	function	JavaScript method called upon completion of the method.

Sample Code–JavaScript

```
<html>
<head>
   <script type="text/javascript"</pre>
src="http://domain:port/support/api/25.0/interaction.js"></script>
   <script type="text/javascript">
       var callback = function (response) {
           if (response.result) {
              alert('Width was set successfully.');
           }
           else {
              alert('Width was not set successfully.');
        };
</script>
</head>
<body>
```

Response

This method is asynchronous so it returns its response in an object in a callback method. The response object contains the following fields:

Name	Туре	Description
result	boolean	$\verb true if the width was set successfully, \verb false if setting the width wasn't successful.$
error	string	If the API call was successful, this variable is undefined. If the API call failed, this variable returns an error message.

CHAPTER 6 Glossary

A |B |C |D |E |F |G |H |I |J |K |L |M |N |O |P |Q |R |S |T |U |V |W |X |Y |Z

Α

Administrator (System Administrator)

One or more individuals in your organization who can configure and customize the application. Users assigned to the System Administrator profile have administrator privileges.

Application Programming Interface (API)

The interface that a computer system, library, or application provides to allow other computer programs to request services from it and exchange data.

Asynchronous Calls

A call that does not return results immediately because the operation may take a long time. Calls in the Metadata API and Bulk API are asynchronous.

В

Boolean Operators

You can use Boolean operators in report filters to specify the logical relationship between two values. For example, the AND operator between two values yields search results that include both values. Likewise, the OR operator between two values yields search results that include either value.

C

CTI Adapter

A lightweight software program that controls the appearance and behavior of a Salesforce SoftPhone. The adapter acts as an intermediary between a third-party computer telephony integration (CTI) system, Salesforce, and a Salesforce CRM Call Center user. It must be installed on any machine that needs access to Salesforce CRM Call Center functionality.

CTI System

The hardware and software that implements computer-telephony integration (CTI) for a particular call center.

Custom Links

Custom links are URLs defined by administrators to integrate your Salesforce data with external websites and back-office systems. Formerly known as Web links.

D

Database

An organized collection of information. The underlying architecture of the Force.com platform includes a database where your data is stored.

Database Table

A list of information, presented with rows and columns, about the person, thing, or concept you want to track. See also Object.

Developer Edition

A free, fully-functional Salesforce organization designed for developers to extend, integrate, and develop with the Force.com platform. Developer Edition accounts are available on developer.salesforce.com.

Salesforce Developers

The Salesforce Developers website at developer.salesforce.com provides a full range of resources for platform developers, including sample code, toolkits, an online developer community, and the ability to obtain limited Force.com platform environments.

E

Enterprise Edition

A Salesforce edition designed for larger, more complex businesses.

F

Field

A part of an object that holds a specific piece of information, such as a text or currency value.

Field-Level Security

Settings that determine whether fields are hidden, visible, read only, or editable for users. Available in Enterprise, Unlimited, Performance, and Developer Editions only.

Force.com

The Salesforce platform for building applications in the cloud. Force.com combines a powerful user interface, operating system, and database to allow you to customize and deploy applications in the cloud for your entire enterprise.

G

Group Edition

A product designed for small businesses and workgroups with a limited number of users.

Н

No Glossary items for this entry.

١

ID

See Salesforce Record ID.

Instance

The cluster of software and hardware represented as a single logical server that hosts an organization's data and runs their applications. The Force.com platform runs on multiple instances, but data for any single organization is always stored on a single instance.

Interaction Log

An area in a Salesforce console where you can jot notes about the main record you're working on without clicking a button, viewing a new tab, or scrolling to the Notes & Attachments related list. Interaction logs are archived on the Activity History related list for easy review and retrieval. Administrators can customize interaction logs to include task fields.

J

No Glossary items for this entry.

K

No Glossary items for this entry.

L

Logged-in User

In a SOAP API context, the username used to log into Salesforce. Client applications run with the permissions and sharing of the logged-in user. Also referred to as an integration user.

M

Metadata

Information about the structure, appearance, and functionality of an organization and any of its parts. Force.com uses XML to describe metadata.

Multitenancy

An application model where all users and apps share a single, common infrastructure and code base.

Ν

Navigation Tab

A tab with a drop-down button in a Salesforce console that lets you select and view object home pages.

O

Object

An object allows you to store information in your Salesforce organization. The object is the overall definition of the type of information you are storing. For example, the case object allow you to store information regarding customer inquiries. For each object, your organization will have multiple records that store the information about specific instances of that type of data. For example, you might have a case record to store the information about Joe Smith's training inquiry and another case record to store the information about Mary Johnson's configuration issue.

Organization

A deployment of Salesforce with a defined set of licensed users. An organization is the virtual space provided to an individual customer of Salesforce. Your organization includes all of your data and applications, and is separate from all other organizations.

P

Personal Edition

Product designed for individual sales representatives and single users.

Platform Edition

A Salesforce edition based on Enterprise, Unlimited, or Performance Edition that does not include any of the standard Salesforce apps, such as Sales or Service & Support.

Primary Tab

A tab in a Salesforce console that displays the main item to work on, such as an account.

Production Organization

A Salesforce organization that has live users accessing data.

Professional Edition

A Salesforce edition designed for businesses who need full-featured CRM functionality.

Q

No Glossary items for this entry.

R

Record

A single instance of a Salesforce object. For example, "John Jones" might be the name of a contact record.

S

Salesforce Record ID

A unique 15- or 18-character alphanumeric string that identifies a single record in Salesforce.

Sandbox

A nearly identical copy of a Salesforce production organization for development, testing, and training. The content and size of a sandbox varies depending on the type of sandbox and the editioin of the production organization associated with the sandbox.

Salesforce Console

The Salesforce console is designed for users in fast-paced environments who need to find, update, and create records quickly. It improves upon the Agent Console in the Console tab by displaying records and related items as tabs on one screen.

Session ID

An authentication token that is returned when a user successfully logs in to Salesforce. The Session ID prevents a user from having to log in again every time he or she wants to perform another action in Salesforce. Different from a record ID or Salesforce ID, which are terms for the unique ID of a Salesforce record.

Session Timeout

The period of time after login before a user is automatically logged out. Sessions expire automatically after a predetermined length of inactivity, which can be configured in Salesforce from Setup by clicking **Security Controls**. The default is 120 minutes (two hours). The inactivity timer is reset to zero if a user takes an action in the Web interface or makes an API call.

Sharing

Allowing other users to view or edit information you own. There are different ways to share data:

Glossary

- Sharing Model—defines the default organization-wide access levels that users have to each other's information and whether to use the hierarchies when determining access to data.
- Role Hierarchy—defines different levels of users such that users at higher levels can view and edit information owned by or shared with users beneath them in the role hierarchy, regardless of the organization-wide sharing model settings.
- Sharing Rules—allow an administrator to specify that all information created by users within a given group or role is automatically shared to the members of another group or role.
- Manual Sharing—allows individual users to share records with other users or groups.
- Apex-Managed Sharing—enables developers to programmatically manipulate sharing to support their application's behavior. See Apex-Managed Sharing.

SOAP (Simple Object Access Protocol)

A protocol that defines a uniform way of passing XML-encoded data.

SoftPhone

The telephone interface that a Salesforce CRM Call Center user sees in either the sidebar of Salesforce pages or the footer of the Salesforce console.

Standard Object

A built-in object included with the Force.com platform. You can also build custom objects to store information that is unique to your app.

System Log

Part of the Developer Console, a separate window console that can be used for debugging code snippets. Enter the code you want to test at the bottom of the window and click Execute. The body of the System Log displays system resource information, such as how long a line took to execute or how many database calls were made. If the code did not run to completion, the console also displays debugging information.

T

Test Organization

See Sandbox.

Trigger

A piece of Apex that executes before or after records of a particular type are inserted, updated, or deleted from the database. Every trigger runs with a set of context variables that provide access to the records that caused the trigger to fire, and all triggers run in bulk mode—that is, they process several records at once, rather than just one record at a time.

П

Unlimited Edition

Unlimited Edition is Salesforce's solution for maximizing your success and extending that success across the entire enterprise through the Force.com platform.

URL (Uniform Resource Locator)

The global address of a website, document, or other resource on the Internet. For example, http://www.salesforce.com.

V

Version

A number value that indicates the release of an item. Items that can have a version include API objects, fields and calls; Apex classes and triggers; and Visualforce pages and components.

Visualforce

A simple, tag-based markup language that allows developers to easily define custom pages and components for apps built on the platform. Each tag corresponds to a coarse or fine-grained component, such as a section of a page, a related list, or a field. The components can either be controlled by the same logic that is used in standard Salesforce pages, or developers can associate their own logic with a controller written in Apex.

W

Web Service

A mechanism by which two applications can easily exchange data over the Internet, even if they run on different platforms, are written in different languages, or are geographically remote from each other.

Web Services API

A Web services application programming interface that provides access to your Salesforce organization's information. See also SOAP API and Bulk API.

Wrapper Class

A class that abstracts common functions such as logging in, managing sessions, and querying and batching records. A wrapper class makes an integration more straightforward to develop and maintain, keeps program logic in one place, and affords easy reuse across components. Examples of wrapper classes in Salesforce include the AJAX Toolkit, which is a JavaScript wrapper around the Salesforce SOAP API, wrapper classes such as CCritical Section in the CTI Adapter for Salesforce CRM Call Center, or wrapper classes created as part of a client integration application that accesses Salesforce using the SOAP API.

WSDL (Web Services Description Language) File

An XML file that describes the format of messages you send and receive from a Web service. Your development environment's SOAP client uses the Salesforce Enterprise WSDL or Partner WSDL to communicate with Salesforce using the SOAP API.

X

No Glossary items for this entry.

Y

No Glossary items for this entry.

Z

No Glossary items for this entry.

INDEX

A	Methods (continued)
API support 3	getDirectoryNumbers() 42
Asynchronous calls 14	getPageInfo() 17
Authentication 14	getSoftphoneLayout() 43
Authentication 14	isInConsole() 18
В	isVisible() 19
	notifyInitializationComplete() 21
Backward compatibility 2	onClickToDial() 46
Best practices 15	onFocus() 21
C	onObjectUpdate 36
	refreshObject() 34
Call center definition files	refreshPage() 23
required elements and attributes 10	refreshRelatedList() 24
Sample 11	reloadFrame() 26
specifying values for <item> elements 11</item>	runApex() 26
XML format 8	Salesforce interaction 16
Connecting to Open CTI 13	saveLog() 28
D	screenPop() 29
	searchAndGetScreenPopUrl() 31
disableClickToDial() 38	searchAndScreenPop() 32
E	setSoftphoneHeight() 47
	setSoftphoneWidth() 49
enableClickToDial() 39	setVisible() 35
F	N
Force.com Canvas 14	notifyInitializationComplete() 21
C	
G	O
getCallCenterSettings() 41	OAuth 14
getDirectoryNumbers() 42	onClickToDial() 46
getPageInfo() 17	onFocus() 21
getSoftphoneLayout() 43	onObjectUpdate 36
I.	Open CTI
I	Using 13
interaction.js 13	Other resources 3
Introduction 1	5
isInConsole() 18	R
isVisible() 19	refreshObject() 34
۸۸	refreshPage() 23
M	refreshRelatedList() 24
Methods	reloadFrame() 26
application interaction 16	Resources for developers 3
computer-telephony integration (CTI) 38	runApex() 26
disableClickToDial() 38	
enableClickToDial() 39	S
getCallCenterSettings() 41	Sample HTML page 4

Index

saveLog() 28	
screenPop() 29	
searchAndGetScreenPopUrl() 31	
searchAndScreenPop() 32	
setSoftphoneHeight() 47	
setSoftphoneWidth() 49	
setVisible() 35	
Support policy 2	

Supported browsers 1

Т

Typographical conventions 3

W

When to use Open CTI 1
Working with Open CTI 13