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# Lightning API Developer Guide

Version 39.0, Spring '17





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# CHAPTER 1 Get Started with Lightning API

Use Lightning API to create native mobile apps and custom web apps with your own branding and look and feel. A single REST request returns enough metadata, layout information, and data to display, edit, or create a record! Lightning API supports most objects that are available in Lightning Experience.

## EDITIONS

Available in: **Developer Edition**

 **Note:** Lightning API is available as a Developer Preview in all DE orgs. To use the API in another type of org, contact Salesforce.

The Lightning API base URL is

```
https://{your_instance}.salesforce.com/services/data/v{api_version}/lapi.
```

Use the resources in the pilot version of Lightning API to display records.

- `GET /lapi/record-ui/{recordIds}`
- `GET /lapi/layout/{objectApiName}`
- `GET /lapi/object-info/{objectApiName}`
- `GET /lapi/records/{recordId}`
- `PATCH /lapi/records/{recordId}`
- `DELETE /lapi/records/{recordId}`
- `GET /lapi/records/batch/{recordIds}`
- `POST /lapi/records`
- `GET /lapi/record-defaults/clone/{recordId}`
- `GET /lapi/record-defaults/create/{apiName}`
- `GET /lapi/object-info/{objectApiName}/picklist-values/{recordTypeId}/{fieldApiName}`

The first resource in the list, the Record UI resource, is the top dog of Lightning API. To display a record, your code makes this simple request:

```
GET /lapi/record-ui/001R0000003GeJ1IAK
```

Behind the scenes, Salesforce does the heavy lifting.

- Checks field-level security settings, sharing settings, and perms.
- Makes SOQL queries to get record data.
- Gets object metadata and theme information.
- Gets layout information.

You are one happy developer, because Salesforce transforms the results into an easy-to-consume JSON response with all the metadata and data you need to display a record.

## Authorization

Like other Salesforce REST APIs, Lightning API uses OAuth 2.0.

### Versioning

Lightning API is versioned. Specify the API version number in each request.

```
GET https://{your_instance}.salesforce.com/services/data/v39.0/lapi
```

### Response Filtering

Lightning API is built on the same REST framework as Chatter REST API and observes the same [filtering rules](#).

Also, several Lightning API resources support additional parameters that change the response to include what your UI needs.

- `formFactor`—The layout display size for the record.
  - `Large`—(Default) Use this value to get a layout for desktop display size.
  - `Medium`—Use this value to get a layout for tablet display size.
  - `Small`—Use this value to get a layout for phone display size.
- `layoutType`—The layout type for the record.
  - `Compact`—Use this value to get a layout that contains a record's key fields.
  - `Full`—(Default) Use this value to get a full layout.
- `mode`—The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet.
  - `Create`—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the `/lapi/record-defaults/create/{apiName}` resource.
  - `Edit`—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the `/lapi/record-defaults/clone/{recordId}` resource.
  - `View`—(Default) Use this mode if you intend to build UI that displays a record.

### Error Handling

The response header contains an HTTP status code. If the response isn't successful, the response body contains an error message, and if appropriate, information about the field or object where the error occurred.

### Rate Limiting

Lightning API requests are subject to rate limiting. Lightning API has a per user, per application, per hour rate limit. When you exceed the rate limit, all Lightning API resources return a 503 Service Unavailable error code.

### Required Fields

When you're building UI, to determine which fields to mark as required for create and update, use the `ObjectInfo.fields[].required` property.

#### [Lightning API Quick Start](#)

The best way to learn an API is to use it. Let's go!

#### [Status Codes and Error Responses](#)

The response header contains an HTTP status code. If the response isn't successful, the response body contains an error message, and if appropriate, information about the field or object where the error occurred.

SEE ALSO:

[Digging Deeper into OAuth 2.0 on Force.com](#)

# Lightning API Quick Start

---

The best way to learn an API is to use it. Let's go!

Sign up for a [Salesforce Developer Edition](#) (also known as a *DE org*).


This quick start makes a request to the top dog of Lightning APIs, the Record UI resource, `/lapi/record-ui/{recordIds}`. This resource returns all the information you need to display a record in an app: layout metadata, object metadata, and record data.

1. Go to the [Workbench](#) API utility.
2. Log in to your DE org.
3. The Record UI resource requires a record ID. To grab one:
  - a. Click **queries > SOQL Query**.
  - b. Select an object, such as Account, select the `Id` field, and click Query.
  - c. Copy one of the IDs in the list of query results. Either keep it in your clipboard, or copy it to a notepad to grab later.
4. Select **utilities > Rest Explorer**.
5. Make a GET request to `/lapi/record-ui/{recordIds}`. Substitute the record ID from your SOQL query. Here's a sample request:

```
GET /lapi/record-ui/001R0000003GeJ1IAK
```

The response includes three nested response bodies. Each response body is a map because you can pass a list of record IDs to the request (for example, `/lapi/record-ui/001R0000003GeJ1IAK,001R0000003GKR0IAO`). In our example, we passed only one record ID.

- `layouts`—A map of object API names to layout information for each object
- `objectInfos`—A map of object API names to metadata for each object
- `records`—A map of record IDs to data for each record

 **Tip:** To get these response bodies individually, use [GET /lapi/layout/{objectApiName}](#), [GET /lapi/object-info/{objectApiName}](#), and [GET /lapi/records/{recordId}](#).

```
{
  "layouts" : {
    "Account" : {
      "0120000000000000AAA" : {
        "Full" : {
          "View" : {
            "id" : "00hR0000000NPP3IAO",
            "layoutType" : "Full",
            "mode" : "View",
            "sections" : [ {
              "columns" : 2,
              "heading" : "Account Information",
              "isCollapsed" : false,
              "layoutRows" : [ {
                "layoutItems" : [ {
                  "editableForNew" : false,
                  "editableForUpdate" : false,
                  "label" : "Account Owner",
                  "layoutComponents" : [ {
```

```

        "componentType" : "Field",
        "label" : "Owner ID",
        "value" : "OwnerId"
    } ],
    "lookupIdApiName" : "OwnerId",
    "sortable" : false
}, {
    "editableForNew" : true,
    "editableForUpdate" : true,
    "label" : "Phone",
    "layoutComponents" : [ {
        "componentType" : "Field",
        "label" : "Account Phone",
        "value" : "Phone"
    } ],
    "lookupIdApiName" : null,
    "sortable" : false
} ]
}, {
    "layoutItems" : [ {
        "editableForNew" : true,
        "editableForUpdate" : true,
        "label" : "Account Name",
        "layoutComponents" : [ {
            "componentType" : "Field",
            "label" : "Account Name",
            "value" : "Name"
        } ],
        "lookupIdApiName" : "Id",
        "sortable" : false
    }, {
        "editableForNew" : true,
        "editableForUpdate" : true,
        "label" : "Fax",
        "layoutComponents" : [ {
            "componentType" : "Field",
            "label" : "Account Fax",
            "value" : "Fax"
        } ],
        "lookupIdApiName" : null,
        "sortable" : false
    } ]
}, {
    "layoutItems" : [ {
        "editableForNew" : true,
        "editableForUpdate" : true,
        "label" : "Parent Account",
        "layoutComponents" : [ {
            "componentType" : "Field",
            "label" : "Parent Account ID",
            "value" : "ParentId"
        } ],
        "lookupIdApiName" : "ParentId",
        "sortable" : false
    } ]
} ]

```



```

    }, {
      "editableForNew" : true,
      "editableForUpdate" : true,
      "label" : "Website",
      "layoutComponents" : [ {
        "componentType" : "Field",
        "label" : "Website",
        "value" : "Website"
      } ],
      "lookupIdApiName" : null,
      "sortable" : false
    } ]
  } ],
  "rows" : 3,
  "useHeading" : false
},

... layout info about some sections removed to save space ...

{
  "columns" : 3,
  "heading" : "Custom Links",
  "isCollapsed" : false,
  "layoutRows" : [ {
    "layoutItems" : [ {
      "editableForNew" : false,
      "editableForUpdate" : false,
      "label" : "",
      "layoutComponents" : [ {
        "behavior" : "NewWindow",
        "componentType" : "CustomLink",
        "customLinkUrl" :
"/servlet/servlet.Integration?lid=00bR0000000I2Ja&eid=ENTITY_ID&ic=1",
        "label" : "Google Search",
        "value" : "GoogleSearch"
      } ],
      "lookupIdApiName" : null,
      "sortable" : false
    }, {
      "editableForNew" : false,
      "editableForUpdate" : false,
      "label" : "",
      "layoutComponents" : [ {
        "behavior" : "NewWindow",
        "componentType" : "CustomLink",
        "customLinkUrl" :
"/servlet/servlet.Integration?lid=00bR0000000I2JY&eid=ENTITY_ID&ic=1",
        "label" : "Google Maps",
        "value" : "GoogleMaps"
      } ],
      "lookupIdApiName" : null,
      "sortable" : false
    }, {
      "editableForNew" : false,

```

```

        "editableForUpdate" : false,
        "label" : "",
        "layoutComponents" : [ {
            "behavior" : "NewWindow",
            "componentType" : "CustomLink",
            "customLinkUrl" :
"/servlet/servlet.Integration?lid=00bR0000000I2JZ&eid=ENTITY_ID&ic=1",
            "label" : "Google News",
            "value" : "GoogleNews"
        } ],
        "lookupIdApiName" : null,
        "sortable" : false
    } ]
}, {
    "layoutItems" : [ {
        "editableForNew" : false,
        "editableForUpdate" : false,
        "label" : "",
        "layoutComponents" : [ {
            "behavior" : "NewWindow",
            "componentType" : "CustomLink",
            "customLinkUrl" :
"/servlet/servlet.Integration?lid=00bR0000000I2Jb&eid=ENTITY_ID&ic=1",
            "label" : "Hoovers Profile",
            "value" : "HooversProfile"
        } ],
        "lookupIdApiName" : null,
        "sortable" : false
    } ]
    "rows" : 2,
    "useHeading" : true
} ]
}
}
}
},
"objectInfos" : {
    "Account" : {
        "apiName" : "Account",
        "createable" : true,
        "custom" : false,
        "defaultRecordTypeId" : null,
        "deleteable" : true,
        "feedEnabled" : true,
        "fields" : {
            "AnnualRevenue" : {
                "apiName" : "AnnualRevenue",
                "calculated" : false,
                "compound" : false,
                "controllerName" : null,
                "createable" : true,
                "custom" : false,

```

```

    "dataType" : "Currency",
    "extraTypeInfo" : null,
    "filterable" : true,
    "filteredLookupInfo" : null,
    "highScaleNumber" : false,
    "htmlFormatted" : false,
    "label" : "Annual Revenue",
    "length" : 0,
    "nameField" : false,
    "picklistValuesUrls" : { },
    "precision" : 18,
    "reference" : false,
    "referenceTargetField" : null,
    "referenceToInfos" : [ ],
    "relationshipName" : null,
    "required" : false,
    "scale" : 0,
    "sortable" : true,
    "updateable" : true
  },
  ... info about some fields removed to save space ...

  "Website" : {
    "apiName" : "Website",
    "calculated" : false,
    "compound" : false,
    "controllerName" : null,
    "createable" : true,
    "custom" : false,
    "dataType" : "Url",
    "extraTypeInfo" : null,
    "filterable" : true,
    "filteredLookupInfo" : null,
    "highScaleNumber" : false,
    "htmlFormatted" : false,
    "label" : "Website",
    "length" : 255,
    "nameField" : false,
    "picklistValuesUrls" : { },
    "precision" : 0,
    "reference" : false,
    "referenceTargetField" : null,
    "referenceToInfos" : [ ],
    "relationshipName" : null,
    "required" : false,
    "scale" : 0,
    "sortable" : true,
    "updateable" : true
  }
},
"keyPrefix" : "001",
"label" : "Account",
"labelPlural" : "Accounts",

```

```

    "layoutable" : true,
    "mruEnabled" : true,
    "nameFields" : [ "Name" ],
    "queryable" : true,
    "recordTypeInfo" : {
      "0120000000000000AAA" : {
        "available" : true,
        "defaultRecordTypeMapping" : true,
        "master" : true,
        "name" : "Master",
        "recordTypeId" : "0120000000000000AAA"
      }
    },
    "searchable" : true,
    "themeInfo" : {
      "color" : "7F8DE1",
      "iconUrl" :
"https://na7-blitz02.soma.salesforce.com/img/icon/t4v35/standard/account_120.png"
    },
    "updateable" : true
  }
},
"records" : {
  "001R0000003GeJ1IAK" : {
    "apiName" : "Account",
    "fields" : {
      "AnnualRevenue" : {
        "displayValue" : "$50,000,000",
        "value" : 5.0E7
      },
      ... data for some fields removed to save space ...

      "Website" : {
        "displayValue" : null,
        "value" : null
      }
    },
    "id" : "001R0000003GeJ1IAK",
    "recordTypeInfo" : null
  }
}
}

```

SEE ALSO:

[Digging Deeper into OAuth 2.0 on Force.com](#)

## Status Codes and Error Responses

---

The response header contains an HTTP status code. If the response isn't successful, the response body contains an error message, and if appropriate, information about the field or object where the error occurred.

HTTP Status Code	Description
200	Success with GET, PATCH, or HEAD request
201	Success with POST request
204	Success with DELETE
400	The request could not be understood, usually because the ID is not valid for the particular resource.
401	The session ID or OAuth token has expired or is invalid. Or, if the request is made by a guest user, the resource isn't accessible to guest users. The response body contains the <code>message</code> and <code>errorCode</code> .
403	The request has been refused. Verify that the context user has the appropriate permissions to access the requested data, or that the context user is not an external user.
404	Either the specified resource was not found, or the resource has been deleted.
409	A conflict has occurred. For example, an attempt was made to update a request to join a group, but that request had already been approved or rejected.
412	A precondition has failed. For example, in a batch request, if <code>haltOnError</code> is <code>true</code> and a subrequest fails, subsequent subrequests return 412.
500	An error has occurred within Force.com, so the request could not be completed. Contact Salesforce Customer Support.
503	Too many requests in an hour or the server is down for maintenance.

## Example

This request requires a 15 or 18 character record ID, but this record ID doesn't contain enough characters:

```
GET /lapi/record-ui/003R000000
```

The response body is:

```
HTTP/1.1 400 Bad Request
Date: Tue, 29 Nov 2016 00:16:36 GMT
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Content-Security-Policy: reflected-xss block;report-uri /_/ContentDomainCSPNoAuth?type=xss
Content-Security-Policy:referrer origin-when-cross-origin
Set-Cookie: BrowserId=q27CK9tSSCeI3klUaYMo6A;Path=/;Domain=.salesforce.com;Expires=Sat,
28-Jan-2017 00:16:36 GMT
Expires: Thu, 01 Jan 1970 00:00:00 GMT
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked

[ {
  "errorCode" : "ILLEGAL_QUERY_PARAMETER_VALUE",
```

```
"message" : "recordId should be a valid record ID: 003R000000"  
} ]
```

SEE ALSO:

[Digging Deeper into OAuth 2.0 on Force.com](#)

## CHAPTER 2 Lightning API Resources

This chapter contains Lightning API resources (also called *endpoints*).

### [Record UI, Get](#)

Get layout information, metadata, and data to build UI for a single record or for a collection of records.

### [Record Layout, Get](#)

Get metadata about page layouts for the specified object type.

### [Object Info, Get](#)

Get metadata (field list and object properties) about a specific object.

### [Records, Get, Delete, Patch](#)

Get, delete, and update a specific record's data.

### [Records, Batch Get](#)

Get data for a batch of records.

### [Records, Post](#)

Create a new record. Before you create a record, make a request to the Clone Record Default or Create Record Default resources to get the default metadata and data.

### [Clone Record Defaults, Get](#)

Get the default layout information, object information, and data for cloning a record. After getting the default values, make a request to `POST /lapi/records` to create the record.

### [Create Record Defaults, Get](#)

Get the default layout information and object information for creating a record. After getting the default values, make a request to `POST /lapi/records` to create the record.

### [Picklist Values, Get](#)

Get the values for a picklist.

## Record UI, Get

---

Get layout information, metadata, and data to build UI for a single record or for a collection of records.

### Resource

```
/lapi/record-ui/{recordIds}
```

### Available version

39.0

### HTTP methods

GET

## Request parameters for GET

Parameter Name	Type	Description	Required or Optional	Available Version
<code>formFactor</code>	String	The layout display size for the record. One of these values: <ul style="list-style-type: none"> <li><code>Large</code>—(Default) Use this value to get a layout for desktop display size.</li> <li><code>Medium</code>—Use this value to get a layout for tablet display size.</li> <li><code>Small</code>—Use this value to get a layout for phone display size.</li> </ul>	Optional	39.0
<code>layoutTypes</code>	String[]	The layout type for the record. A collection of any of these values: <ul style="list-style-type: none"> <li><code>Compact</code>—Use this value to get a layout that contains a record's key fields.</li> <li><code>Full</code>—(Default) Use this value to get a full layout.</li> </ul>	Optional	39.0
<code>modes</code>	String[]	The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet. A collection of any of these values: <ul style="list-style-type: none"> <li><code>Create</code>—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the <code>/api/record-defaults/create/{apiName}</code> resource.</li> <li><code>Edit</code>—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the <code>/api/record-defaults/clone/{recordId}</code> resource.</li> <li><code>View</code>—(Default) Use this mode if you intend to build UI that displays a record.</li> </ul>	Optional	39.0



Parameter Name	Type	Description	Required or Optional	Available Version
<code>optionalFields</code>	String[]	A collection of optional field names. If a field is accessible to the context user, it's included in the response. If a field isn't accessible to the context user, it isn't included in the response, but it doesn't cause an error. Specify optional field names using the format: <code>{ObjectApiName} . {FieldName}</code>	Optional	39.0

**Response body for GET**[Record UI](#)

SEE ALSO:

[Lightning API Quick Start](#)

## Record Layout, Get

---

Get metadata about page layouts for the specified object type.

**Resource**

```
/1api/layout/{objectApiName}
```

**Available version**

39.0

**HTTP methods**

GET

**Request parameters for GET**

Parameter Name	Type	Description	Required or Optional	Available Version
<code>formFactor</code>	String	The layout display size for the record. One of these values: <ul style="list-style-type: none"> <li><code>Large</code>—(Default) Use this value to get a layout for desktop display size.</li> <li><code>Medium</code>—Use this value to get a layout for tablet display size.</li> <li><code>Small</code>—Use this value to get a layout for phone display size.</li> </ul>	Optional	39.0

Parameter Name	Type	Description	Required or Optional	Available Version
layoutType	String	The layout type for the record. One of these values: <ul style="list-style-type: none"> <li>Compact—Use this value to get a layout that contains a record's key fields.</li> <li>Full—(Default) Use this value to get a full layout.</li> </ul>	Optional	39.0
mode	String	The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet. One of these values: <ul style="list-style-type: none"> <li>Create—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the <code>/api/record-defaults/create/{apiName}</code> resource.</li> <li>Edit—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the <code>/api/record-defaults/clone/{recordId}</code> resource.</li> <li>View—(Default) Use this mode if you intend to build UI that displays a record.</li> </ul>	Optional	39.0
recordTypeId	Id	The ID of the record type (RecordType object) for the new record. If not provided, the default record type is used.	Optional	39.0

**Response body for GET**[Record Layout](#)

## SEE ALSO:

[Lightning API Quick Start](#)

## Object Info, Get

---

Get metadata (field list and object properties) about a specific object.

### Resource

```
/lapi/object-info/{objectApiName}
```

### Available version

39.0

### HTTP methods

GET

### Request parameters for GET

Parameter Name	Type	Description	Required or Optional	Available Version
layoutTypes	String[]	The layout type for the record. A collection containing any of these values: <ul style="list-style-type: none"> <li>Compact—Use this value to get a layout that contains a record's key fields.</li> <li>Full—(Default) Use this value to get a full layout.</li> </ul>	Optional	39.0
modes	String[]	The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet. A collection containing any of these values: <ul style="list-style-type: none"> <li>Create—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the <code>/lapi/record-defaults/create/{apiName}</code> resource.</li> <li>Edit—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the <code>/lapi/record-defaults/clone/{recordId}</code> resource.</li> <li>View—(Default) Use this mode if you intend to build UI that displays a record.</li> </ul>	Optional	39.0

Parameter Name	Type	Description	Required or Optional	Available Version
<code>recordTypeId</code>	Id	The ID of the record type (RecordType object) for the new record. If not provided, the default record type is used.	Optional	39.0

**Response body for GET**[Object Info](#)

SEE ALSO:

[Lightning API Quick Start](#)

## Records, Get, Delete, Patch

---

Get, delete, and update a specific record's data.

**Resource**

```
/lapi/records/{recordId}
```

**Available version**

39.0

**HTTP methods**

GET, DELETE, PATCH

**Request parameters for GET**

Parameter Name	Type	Description	Required or Optional	Available Version
<code>fields</code>	String[]	Specifies the fields to return. If this property is specified, the response is a union of <code>fields</code> and <code>optionalFields</code> .  If the context user doesn't have access to a field, an error is returned.  If you're not sure whether the context user has access to a field and you don't want the request to fail if they don't, use the <code>optionalFields</code> parameter instead.	Either <code>fields</code> or <code>layoutTypes</code> is required.	39.0

Parameter Name	Type	Description	Required or Optional	Available Version
layoutTypes	String[]	<p>Specifies the fields to return. If this property is specified, the response is a union of <code>layoutTypes</code>, <code>modes</code>, and <code>optionalFields</code>.</p> <p>A collection containing any of these values:</p> <ul style="list-style-type: none"> <li><b>Compact</b>—Use this value to get a layout that contains a record's key fields.</li> <li><b>Full</b>—(Default) Use this value to get a full layout.</li> </ul>	Either <code>fields</code> or <code>layoutTypes</code> is required.	39.0
modes	String[]	<p>The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet. A collection containing any of these values:</p> <ul style="list-style-type: none"> <li><b>Create</b>—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the <code>/api/record-defaults/create/{apiName}</code> resource.</li> <li><b>Edit</b>—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the <code>/api/record-defaults/clone/{recordId}</code> resource.</li> <li><b>View</b>—(Default) Use this mode if you intend to build UI that displays a record.</li> </ul>	Optional if the <code>layoutTypes</code> parameter is specified. Otherwise, this parameter is ignored.	39.0
optionalFields	String[]	<p>A collection of optional field names. If a field is accessible to the context user, it's included in the response. If a field isn't accessible to the context user, it isn't included in the response, but it doesn't cause an error. Specify optional field names using the format:</p> <pre>{ObjectApiName} . {FieldName}</pre>	Optional	39.0

**Response body for GET**[Record Data](#)**Request body for PATCH**

Name	Type	Description	Required or Optional	Available Version
apiName	String	To create a record, specify the API name of an Object from which to create the record. To update a record, use <code>null</code> .	Required	39.0
fields	Map<String, Object>	Map of field names to field values. Format data types according to these rules: <ul style="list-style-type: none"> <li>• Address—JSON String</li> <li>• Base64—JSON String</li> <li>• Boolean—JSON Boolean, <code>true</code> or <code>false</code></li> <li>• Currency—JSON Float</li> <li>• Date—JSON string in correct format</li> <li>• DateTime—JSON string in ISO 8601 format</li> <li>• Double—JSON Float</li> <li>• Email—JSON String</li> <li>• EncryptedString—JSON String</li> <li>• Int—JSON Number</li> <li>• Location—JSON String</li> <li>• MultiPicklist—JSON String</li> <li>• Percent—JSON Float</li> <li>• Phone—JSON String</li> <li>• Picklist—JSON String</li> <li>• Reference—JSON String.</li> <li>• String—JSON String</li> <li>• TextArea—JSON String</li> <li>• Time—JSON String in format HH:MM:SS</li> <li>• Url—JSON String</li> </ul>	Required	39.0

**Response body for PATCH**[Record Data](#)

**Example for PATCH**

```
PATCH /lapi/records/001R0000003Gjrt
```

```
{
  "apiName": "Account",
  "fields": {
    "Name": "Universal Containers"
  }
}
```

To provide an address, provide the individual fields as separate inputs. The compound field is only available in the response.

```
{
  "apiName": "Account",
  "fields" : {
    "Name": "Local Boxes",
    "BillingState": "WA",
    "BillingStreet" : "123 Main Street",
    "BillingCountry" : "USA"
  }
}
```

**SEE ALSO:**

[Records, Batch Get](#)

[Records, Post](#)

[Lightning API Quick Start](#)

## Records, Batch Get

---

Get data for a batch of records.

**Resource**

```
/lapi/records/batch/{recordIds}
```

**Available version**

39.0

**HTTP methods**

GET

**Request parameters for GET**

Parameter Name	Type	Description	Required or Optional	Available Version
fields	String[]	Specifies the fields to return. If this property is specified, the response is a union of fields and optionalFields.  If the context user doesn't have access to a field, an error is returned.	Either fields or layoutTypes is required.	39.0

Parameter Name	Type	Description	Required or Optional	Available Version
		If you're not sure whether the context user has access to a field and you don't want the request to fail if they don't, use the <code>optionalFields</code> parameter instead.		
<code>layoutTypes</code>	<code>String[]</code>	Specifies the fields to return. If this property is specified, the response is a union of <code>layoutTypes</code> , <code>modes</code> , and <code>optionalFields</code> .  A collection containing any of these values: <ul style="list-style-type: none"> <li><code>Compact</code>—Use this value to get a layout that contains a record's key fields.</li> <li><code>Full</code>—(Default) Use this value to get a full layout.</li> </ul>	Either <code>fields</code> or <code>layoutTypes</code> is required.	39.0
<code>modes</code>	<code>String[]</code>	The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet. A collection containing any of these values: <ul style="list-style-type: none"> <li><code>Create</code>—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the <code>/api/record-defaults/create/{apiName}</code> resource.</li> <li><code>Edit</code>—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the <code>/api/record-defaults/clone/{recordId}</code> resource.</li> <li><code>View</code>—(Default) Use this mode if you intend to build UI that displays a record.</li> </ul>	Optional if the <code>layoutTypes</code> parameter is specified. Otherwise, this parameter is ignored.	39.0
<code>optionalFields</code>	<code>String[]</code>	A collection of optional field names. If a field is accessible to the context user, it's included in the response. If a field isn't accessible to the context user, it isn't included in the response, but it doesn't	Optional	39.0



Parameter Name	Type	Description	Required or Optional	Available Version
		cause an error. Specify optional field names using the format: {ObjectName} . {FieldName}		

### Response body for GET

[Batch Results](#)

### SEE ALSO:

[Clone Record Defaults, Get](#)

[Create Record Defaults, Get](#)

[Records, Get, Delete, Patch](#)

[Lightning API Quick Start](#)

[Batch Results](#)

## Records, Post

Create a new record. Before you create a record, make a request to the Clone Record Default or Create Record Default resources to get the default metadata and data.

### Resource

```
/lapi/records
```

### Available version

39.0

### HTTP methods

POST

### Request body example

```
POST /lapi/records
```

```
{
  "apiName": "Account",
  "fields": {
    "Name": "Universal Containers"
  }
}
```

To provide an address, provide the individual fields as separate inputs. The compound field is only available in the response.

```
{
  "apiName": "Account",
  "fields" : {
    "Name": "Local Boxes",
    "BillingState": "WA",
    "BillingStreet" : "123 Main Street",
```

```

    "BillingCountry" : "USA"
  }
}

```

**Request body for POST**

Name	Type	Description	Required or Optional	Available Version
apiName	String	To create a record, specify the API name of an Object from which to create the record. To update a record, use <code>null</code> .	Required	39.0
fields	Map<String, Object>	Map of field names to field values. Format data types according to these rules: <ul style="list-style-type: none"> <li>• Address—JSON String</li> <li>• Base64—JSON String</li> <li>• Boolean—JSON Boolean, <code>true</code> or <code>false</code></li> <li>• Currency—JSON Float</li> <li>• Date—JSON string in correct format</li> <li>• DateTime—JSON string in ISO 8601 format</li> <li>• Double—JSON Float</li> <li>• Email—JSON String</li> <li>• EncryptedString—JSON String</li> <li>• Int—JSON Number</li> <li>• Location—JSON String</li> <li>• MultiPicklist—JSON String</li> <li>• Percent—JSON Float</li> <li>• Phone—JSON String</li> <li>• Picklist—JSON String</li> <li>• Reference—JSON String.</li> <li>• String—JSON String</li> <li>• TextArea—JSON String</li> <li>• Time—JSON String in format HH:MM:SS</li> <li>• Url—JSON String</li> </ul>	Required	39.0

**Response body for POST**

[Record Data](#)

**Response body example**

```
{
  "apiName" : "Account",
  "fields" : {
    "AnnualRevenue" : {
      "displayValue" : null,
      "value" : null
    },
    "BillingCity" : {
      "displayValue" : null,
      "value" : null
    },
    "BillingCountry" : {
      "displayValue" : null,
      "value" : null
    },
    "BillingPostalCode" : {
      "displayValue" : null,
      "value" : null
    },
    "BillingState" : {
      "displayValue" : null,
      "value" : null
    },
    "BillingStreet" : {
      "displayValue" : null,
      "value" : null
    },
    "CreatedBy" : {
      "displayValue" : "Deanna Li",
      "value" : {
        "apiName" : "User",
        "fields" : {
          "Id" : {
            "displayValue" : "005R00000000IEDsIAO",
            "value" : "005R00000000IEDsIAO"
          },
          "Name" : {
            "displayValue" : "Deanna Li",
            "value" : "Deanna Li"
          }
        }
      },
      "id" : "005R00000000IEDsIAO",
      "recordTypeInfo" : null
    },
    "CreatedById" : {
      "displayValue" : "005R00000000IEDsIAO",
      "value" : "005R00000000IEDsIAO"
    },
    "CreatedDate" : {
      "displayValue" : "11/22/2016 12:36 PM",
      "value" : "2016-11-22T20:36:12.000Z"
    }
  }
}
```

```

    },
    "Description" : {
      "displayValue" : null,
      "value" : null
    },
    },
    "Fax" : {
      "displayValue" : null,
      "value" : null
    },
    },
    "Industry" : {
      "displayValue" : null,
      "value" : null
    },
    },
    "LastModifiedBy" : {
      "displayValue" : "Deanna Li",
      "value" : {
        "apiName" : "User",
        "fields" : {
          "Id" : {
            "displayValue" : "005R0000000IEDsIAO",
            "value" : "005R0000000IEDsIAO"
          },
          "Name" : {
            "displayValue" : "Deanna Li",
            "value" : "Deanna Li"
          }
        }
      },
      "id" : "005R0000000IEDsIAO",
      "recordTypeInfo" : null
    }
  },
  "LastModifiedById" : {
    "displayValue" : "005R0000000IEDsIAO",
    "value" : "005R0000000IEDsIAO"
  },
  "LastModifiedDate" : {
    "displayValue" : "11/22/2016 12:36 PM",
    "value" : "2016-11-22T20:36:12.000Z"
  },
  "Name" : {
    "displayValue" : "Universal Containers",
    "value" : "Universal Containers"
  },
  },
  "NumberOfEmployees" : {
    "displayValue" : null,
    "value" : null
  },
  },
  "Owner" : {
    "displayValue" : "Deanna Li",
    "value" : {
      "apiName" : "User",
      "fields" : {
        "Id" : {
          "displayValue" : "005R0000000IEDsIAO",

```

```

        "value" : "005R0000000IEDsIAO"
      },
      "Name" : {
        "displayValue" : "Deanna Li",
        "value" : "Deanna Li"
      }
    },
    "id" : "005R0000000IEDsIAO",
    "recordTypeInfo" : null
  }
},
"OwnerId" : {
  "displayValue" : "005R0000000IEDsIAO",
  "value" : "005R0000000IEDsIAO"
},
"ParentId" : {
  "displayValue" : null,
  "value" : null
},
"Phone" : {
  "displayValue" : null,
  "value" : null
},
"ShippingCity" : {
  "displayValue" : null,
  "value" : null
},
"ShippingCountry" : {
  "displayValue" : null,
  "value" : null
},
"ShippingPostalCode" : {
  "displayValue" : null,
  "value" : null
},
"ShippingState" : {
  "displayValue" : null,
  "value" : null
},
"ShippingStreet" : {
  "displayValue" : null,
  "value" : null
},
"Type" : {
  "displayValue" : null,
  "value" : null
},
"Website" : {
  "displayValue" : null,
  "value" : null
}
},
"id" : "001R00000003GeJ1IAK",

```

```

"recordTypeInfo" : null
}

```

## SEE ALSO:

[Clone Record Defaults, Get](#)[Create Record Defaults, Get](#)[Records, Get, Delete, Patch](#)[Lightning API Quick Start](#)

## Clone Record Defaults, Get

---

Get the default layout information, object information, and data for cloning a record. After getting the default values, make a request to `POST /lapi/records` to create the record.

**Resource**

```

/lapi/record-defaults/clone/{recordId}

```

**Available version**

39.0

**HTTP methods**

GET

**Request parameters for GET**

Parameter Name	Type	Description	Required or Optional	Available Version
<code>formFactor</code>	String	The layout display size for the record. One of these values: <ul style="list-style-type: none"> <li><code>Large</code>—(Default) Use this value to get a layout for desktop display size.</li> <li><code>Medium</code>—Use this value to get a layout for tablet display size.</li> <li><code>Small</code>—Use this value to get a layout for phone display size.</li> </ul>	Optional	39.0
<code>recordTypeId</code>	Id	The ID of the record type ( <code>RecordType</code> object) for the new record. If not provided, the default record type is used.	Optional	39.0

**Response body for GET**[Record Defaults](#)

SEE ALSO:

[Records, Post](#)[Lightning API Quick Start](#)

## Create Record Defaults, Get

---

Get the default layout information and object information for creating a record. After getting the default values, make a request to `POST /lapi/records` to create the record.

**Resource**

```
/lapi/record-defaults/create/{apiName}
```

**Available version**

39.0

**HTTP methods**

GET

**Request parameters for GET**

Parameter Name	Type	Description	Required or Optional	Available Version
<code>formFactor</code>	String	The layout display size for the record. One of these values: <ul style="list-style-type: none"> <li><code>Large</code>—(Default) Use this value to get a layout for desktop display size.</li> <li><code>Medium</code>—Use this value to get a layout for tablet display size.</li> <li><code>Small</code>—Use this value to get a layout for phone display size.</li> </ul>	Optional	39.0
<code>recordTypeId</code>	Id	The ID of the record type ( <code>RecordType</code> object) for the new record. If not provided, the default record type is used.	Optional	39.0

**Response body for GET**[Record Defaults](#)

SEE ALSO:

[Records, Post](#)[Lightning API Quick Start](#)

## Picklist Values, Get

---

Get the values for a picklist.

### Resource

```
/lapi/object-info/{objectApiName}/picklist-values/{recordTypeId}/{fieldApiName}
```

### Available version

39.0

### HTTP methods

GET

### Response body for GET

[Picklist Values](#)

### Example

When you make a request to `/lapi/record-ui/{recordIds}` or `/lapi/object-info/{objectApiName}`, if the response includes a picklist field, it also includes a `picklistValueUrl` property. That property contains a Picklist Values resource with the `{objectApiName}`, `{recordTypeId}`, and `{fieldApiName}` filled in, as in this example:

```
GET /services/data/v39.0/lapi/object-info/Account/picklist-values/01200000000000AAA/Type/
{
  "controllerValues" : { },
  "defaultValue" : null,
  "url" :
  "/services/data/v39.0/lapi/object-info/Account/picklist-values/01200000000000AAA/Type",

  "values" : [ {
    "attributes" : null,
    "label" : "Analyst",
    "picklistValueType" : "Standard",
    "validFor" : [ ],
    "value" : "Analyst"
  }, {
    "attributes" : null,
    "label" : "Competitor",
    "picklistValueType" : "Standard",
    "validFor" : [ ],
    "value" : "Competitor"
  },
  ... some picklist values removed for space ...

  {
    "attributes" : null,
    "label" : "Other",
    "picklistValueType" : "Standard",
    "validFor" : [ ],
    "value" : "Other"
```



```
} ]  
}
```

SEE ALSO:

[Record UI, Get](#)

[Object Info, Get](#)

[Lightning API Quick Start](#)

## CHAPTER 3 Lightning API Request Bodies

The successful execution of a request to a resource can return a response body in JSON format.

A request to a resource always returns an [HTTP response code](#), whether the request was successful or not.

### Record Input

A description of a record to use in a request to create or update a record.

## Record Input

---

A description of a record to use in a request to create or update a record.

### Example

```
POST /lapi/records
```

```
{
  "apiName": "Account",
  "fields": {
    "Name": "Universal Containers"
  }
}
```

To provide an address, provide the individual fields as separate inputs. The compound field is only available in the response.

```
{
  "apiName": "Account",
  "fields" : {
    "Name": "Local Boxes",
    "BillingState": "WA",
    "BillingStreet" : "123 Main Street",
    "BillingCountry" : "USA"
  }
}
```

### Properties

Name	Type	Description	Required or Optional	Available Version
apiName	String	To create a record, specify the API name of an Object from which to create the record. To update a record, use <code>null</code> .	Required	39.0

Name	Type	Description	Required or Optional	Available Version
<code>fields</code>	Map<String, Object>	<p>Map of field names to field values.</p> <p>Format data types according to these rules:</p> <ul style="list-style-type: none"> <li>• <code>Address</code>—JSON String</li> <li>• <code>Base64</code>—JSON String</li> <li>• <code>Boolean</code>—JSON Boolean, <code>true</code> or <code>false</code></li> <li>• <code>Currency</code>—JSON Float</li> <li>• <code>Date</code>—JSON string in correct format</li> <li>• <code>DateTime</code>—JSON string in ISO 8601 format</li> <li>• <code>Double</code>—JSON Float</li> <li>• <code>Email</code>—JSON String</li> <li>• <code>EncryptedString</code>—JSON String</li> <li>• <code>Int</code>—JSON Number</li> <li>• <code>Location</code>—JSON String</li> <li>• <code>MultiPicklist</code>—JSON String</li> <li>• <code>Percent</code>—JSON Float</li> <li>• <code>Phone</code>—JSON String</li> <li>• <code>Picklist</code>—JSON String</li> <li>• <code>Reference</code>—JSON String.</li> <li>• <code>String</code>—JSON String</li> <li>• <code>TextArea</code>—JSON String</li> <li>• <code>Time</code>—JSON String in format HH:MM:SS</li> <li>• <code>Url</code>—JSON String</li> </ul>	Required	39.0

## SEE ALSO:

[Records, Post](#)

## CHAPTER 4 Lightning API Response Bodies

A request to a resource returns a response body. Some response bodies also contain nested response bodies.

A request to a resource always returns an [HTTP response code](#), whether the request was successful or not.

### [Lightning API Top-Level Response Bodies](#)

These response bodies are returned from requests to Lightning API resources. They may contain nested response bodies.

### [Lightning API Nested Response Bodies](#)

These response bodies are nested in top-level response bodies.

## Lightning API Top-Level Response Bodies

---

These response bodies are returned from requests to Lightning API resources. They may contain nested response bodies.

A request to a resource always returns an [HTTP response code](#), whether the request was successful or not.

### [Batch Results](#)

The results from a request to a batch resource. Results include information for each subrequest in the batch.

### [Object Info](#)

The metadata for an object.

### [Picklist Values](#)

The picklist values for a field, scoped to a record type.

### [Record Data](#)

The field data, API name, and record type information for a record.

### [Record Defaults](#)

The default information and data needed to create or clone a record. Use these values in a request to `POST /1/api/records`.

### [Record Layout](#)

The layout information for a record.

### [Record UI](#)

The layout information, field information, and data for a record.

SEE ALSO:

[Lightning API Nested Response Bodies](#)

## Batch Results

The results from a request to a batch resource. Results include information for each subrequest in the batch.

Property	Type	Description	Filter Group and Version	Available Version
<code>hasErrors</code>	Boolean	<code>true</code> if at least one of the results in the result set is an HTTP status code in the 400 or 500 range; <code>false</code> otherwise	Small, 39.0	39.0
<code>results</code>	<a href="#">Batch Result Item</a> []	Collection of batch result items	Small, 39.0	39.0

SEE ALSO:

[Records](#), [Batch Get](#)

## Object Info

The metadata for an object.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>apiName</code>	String	The object's API name.	Small, 39.0	39.0
<code>createable</code>	Boolean	Indicates whether the object can be created.	Small, 39.0	39.0
<code>custom</code>	Boolean	Indicates whether the object is custom.	Small, 39.0	39.0
<code>defaultRecordTypeId</code>	String	The ID for the default record type for this object, if any. If there isn't a default type, or if there's only a master type, this value is <code>null</code> .	Medium, 39.0	39.0
<code>deleteable</code>	Boolean	Indicates whether the object can be deleted.	Small, 39.0	39.0
<code>feedEnabled</code>	Boolean	Indicates whether the object can have feeds.	Medium, 39.0	39.0
<code>fields</code>	Map<String, <a href="#">Field</a> >	A map of field API name to information about the field. This map only contains fields relevant to the requested layout and mode.	Medium, 39.0	39.0
<code>keyPrefix</code>	String	The key prefix for IDs of this object.	Medium, 39.0	39.0
<code>label</code>	String	The object's display label.	Small, 39.0	39.0
<code>labelPlural</code>	String	The plural form of the object's display label.	Medium, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
layoutable	Boolean	Indicates whether the object can have a layout.	Small, 39.0	39.0
mruEnabled	Boolean	Indicates whether the object can appear in Most Recently Used lists.	Small, 39.0	39.0
nameFields	String[]	A collection of the API names of the fields used to identify the name field for standard and custom objects. Typically there is one name field per object, except where <code>FirstName</code> and <code>LastName</code> fields are used.	Medium, 39.0	39.0
queryable	Boolean	Indicates whether the object can be queried by the context user.	Small, 39.0	39.0
recordTypeInfoos	Map<String, <a href="#">Record Type Info</a> >	A map of record type IDs to information about the record type. All record types are visible whether or not the user has access to them.	Medium, 39.0	39.0
searchable	Boolean	Indicates whether the object can be searched.	Small, 39.0	39.0
themeInfo	<a href="#">Theme Info</a>	Theme information for the object.	Medium, 39.0	39.0
updateable	Boolean	Indicates whether the object can be updated.	Small, 39.0	39.0

## SEE ALSO:

[Object Info, Get](#)[Record UI](#)[Clone Record Defaults, Get](#)[Create Record Defaults, Get](#)

## Picklist Values

The picklist values for a field, scoped to a record type.

Property Name	Type	Description	Filter Group and Version	Available Version
controllerValues	Map<String, Integer>	If the picklist is independent, the map is empty.  If the picklist is dependent, this map contains the following: <ul style="list-style-type: none"> <li>If the controlling field is a picklist, the picklist value is the value index.</li> <li>If the controlling field is a boolean, 0 indicates <code>false</code> and 1 indicates <code>true</code>. Values in the map are: <ul style="list-style-type: none"> <li><code>"false": 0</code></li> <li><code>"true": 1</code></li> </ul> </li> </ul>	Small, 39.0	39.0
defaultValue	Picklist Value	The default value for the picklist, or <code>null</code> if there isn't one.	Small, 39.0	39.0
url	String	A self-reference URL back to the API that can be used to retrieve this payload.	Small, 39.0	39.0
values	Picklist Value[]	A list of the applicable values for this object-record-type-field combination.	Small, 39.0	39.0

SEE ALSO:

[Picklist Values, Get](#)

## Record Data

The field data, API name, and record type information for a record.

Property Name	Type	Description	Filter Group and Version	Available Version
apiName	String	The record's API name.	Small, 39.0	39.0
fields	Map<String, <a href="#">Field Value</a> >	The field data for this record, matching the requested layout and mode.	Small, 39.0	39.0
id	String	The ID of this record.	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
recordTypeInfo	<a href="#">Record Type Info</a>	The record type info for this record, if any.	Small, 39.0	39.0

## SEE ALSO:

[Records, Get, Delete, Patch](#)[Records, Post](#)[Record UI](#)[Clone Record Defaults, Get](#)[Create Record Defaults, Get](#)

## Record Defaults

The default information and data needed to create or clone a record. Use these values in a request to `POST /lapi/records`.

Property Name	Type	Description	Filter Group and Version	Available Version
layout	<a href="#">Record Layout</a>	Record layout information.	Medium, 39.0	39.0
objectInfo	<a href="#">Object Info</a>	Object metadata.	Big, 39.0	39.0
record	<a href="#">Record Data</a>	Pre-populated record data.	Small, 39.0	39.0

## SEE ALSO:

[Clone Record Defaults, Get](#)[Create Record Defaults, Get](#)[Records, Post](#)

## Record Layout

The layout information for a record.

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The layout ID.	Small, 39.0	39.0
layoutType	String	The layout type for the record. One of these values: <ul style="list-style-type: none"> <li><code>Compact</code>—Use this value to get a layout that contains a record's key fields.</li> <li><code>Full</code>—(Default) Use this value to get a full layout.</li> </ul>	Small, 39.0	39.0



Property Name	Type	Description	Filter Group and Version	Available Version
mode	String	<p>The access mode for the record. This value determines which fields to get from a layout. Layouts have different fields for create, edit, and view modes. For example, formula fields are rendered in view mode, but not in create mode because they're calculated at run time, like formulas in a spreadsheet. One of these values:</p> <ul style="list-style-type: none"> <li><b>create</b>—Use this mode if you intend to build UI that lets a user create a record. This mode is used by the <code>/api/record-defaults/create/{apiName}</code> resource.</li> <li><b>edit</b>—Use this mode if you intend to build UI that lets a user edit a record. This mode is used by the <code>/api/record-defaults/clone/{recordId}</code> resource.</li> <li><b>view</b>—(Default) Use this mode if you intend to build UI that displays a record.</li> </ul>	Small, 39.0	39.0
sections	<a href="#">Record Layout Section</a> []	A collection of layout sections.	Small, 39.0	39.0

## SEE ALSO:

[Record Layout, Get](#)[Record UI](#)[Clone Record Defaults, Get](#)[Create Record Defaults, Get](#)

## Record UI

The layout information, field information, and data for a record.

Property Name	Type	Description	Filter Group and Version	Available Version
layouts	Map<String, <a href="#">Record Layout</a> >	A map of object API names to each object's record layout information.	Medium, 39.0	39.0
objectInfos	Map<String, <a href="#">Object Info</a> >	A map of object API names to each object's metadata.	Big, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
records	Map<String, <a href="#">Record Data</a> >	A map of record IDs to each record's data.	Small, 39.0	39.0

SEE ALSO:

[Record UI, Get](#)

## Lightning API Nested Response Bodies

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These response bodies are nested in top-level response bodies.

A request to a resource always returns a [HTTP response code](#), whether the request was successful or not.

### [Batch Result Item](#)

The results of one subrequest in a batch request.

### [Canvas Layout Component](#)

A canvas component on a record page layout.

### [Custom Link Layout Component](#)

A custom link component on a record page layout.

### [Error Message](#)

An error code and error message.

### [Error with Output](#)

Contains extra information about errors. In rare cases, an error message isn't enough to describe the reason for a failure. For example, when a conflicting precondition exists, the error result can include the information about the cause of the conflict.

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A field's metadata.

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[Reference To Info](#)

Information about a reference field's referenced types and the name field names of those types.

[Report Layout Component](#)

A report chart component on a record layout page.

[Theme Info](#)

Color and icon information for a theme.

[Visualforce Layout Component](#)


A Visualforce component on a record layout page.

SEE ALSO:

[Lightning API Top-Level Response Bodies](#)

## Batch Result Item

The results of one subrequest in a batch request.

Property	Type	Description	Filter Group and Version	Available Version
result	One of these types: <ul style="list-style-type: none"> <li><a href="#">Record Data</a></li> <li><a href="#">Error Message</a></li> </ul>  <b>Important:</b> If the result is an error, the type is a collection	A response body for a record passed in a request to <code>/1api/records/batch/{recordIds}</code> .	Small, 39.0	39.0

Property	Type	Description	Filter Group and Version	Available Version
		of error messages.		
statusCode	Integer	An HTTP status code indicating the status of this individual request in the batch.	Small, 39.0	39.0

## Canvas Layout Component

A canvas component on a record page layout.

Property Name	Type	Description	Filter Group and Version	Available Version
componentType	String	The value is <code>Canvas</code> .	Small, 39.0	39.0
displayLocation	String	<p>The location in the application where the canvas app is being called from. One of these values:</p> <ul style="list-style-type: none"> <li><code>Chatter</code>—The canvas app was called from the Chatter tab.</li> <li><code>ChatterFeed</code>—The canvas app was called from a Chatter canvas feed item.</li> <li><code>MobileNav</code>—The canvas app was called from the navigation menu in Salesforce1.</li> <li><code>OpenCTI</code>—The canvas app was called from an Open CTI component.</li> <li><code>PageLayout</code>—The canvas app was called from an element within a page layout. If the <code>displayLocation</code> is <code>PageLayout</code>, one of the <code>subLocation</code> values can be returned.</li> <li><code>Publisher</code>—The canvas app was called from a canvas custom quick action.</li> <li><code>ServiceDesk</code>—The canvas app was called from a Salesforce Console component.</li> <li><code>Visualforce</code>—The canvas app was called from a Visualforce page.</li> <li><code>None</code>—The canvas app was called from the Canvas App Previewer.</li> </ul>	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<p>The <code>sublocation</code> in the application where the canvas app was called from when the canvas app is loaded in a mobile device. The possible values are:</p> <ul style="list-style-type: none"> <li><code>S1MobileCardFullview</code>—The canvas app was called from a mobile card.</li> <li><code>S1MobileCardPreview</code>—The canvas app was called from a mobile card preview.</li> <li><code>S1RecordHomePreview</code>—The canvas app was called from a record detail page preview.</li> <li><code>S1RecordHomeFullview</code>—The canvas app was called from a page layout.</li> </ul>		
<code>height</code>	String	The height of the component.	Small, 39.0	39.0
<code>referenceId</code>	String	The unique ID of the canvas app definition.	Small, 39.0	39.0
<code>showScroll</code>	Boolean	Indicates whether to show the scroll bar on the canvas component ( <code>true</code> ) or not ( <code>false</code> ).	Small, 39.0	39.0
<code>width</code>	String	The width of the component.	Small, 39.0	39.0
<code>value</code>	String	The API name of the canvas app.	Small, 39.0	39.0

## Custom Link Layout Component

A custom link component on a record page layout.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>behavior</code>	String	<p>Indicates how a link behaves on open. One of these values:</p> <ul style="list-style-type: none"> <li><code>NewWindow</code>—Open a new window.</li> <li><code>NoSidebar</code>—No sidebar</li> <li><code>OnClickJavaScript</code>—When the link is clicked, run JavaScript.</li> <li><code>Replace</code>—Replace the current page.</li> <li><code>Sidebar</code>—Sidebar</li> </ul>	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
componentType	String	The component type. The value is CustomLink.	Small, 39.0	39.0
customLinkUrl	String	The custom link URL.	Small, 39.0	39.0
label	String	The custom link label.	Small, 39.0	39.0
value	String	The value of the custom link component.	Small, 39.0	39.0

## Error Message

An error code and error message.

Property	Type	Description	Filter Group and Version	Available Version
errorCode	String	An error code with information about the error, for example, <code>INSUFFICIENT_PRIVILEGES</code>	Small, 39.0	39.0
message	String	Description of error	Small, 39.0	39.0

## Error with Output

Contains extra information about errors. In rare cases, an error message isn't enough to describe the reason for a failure. For example, when a conflicting precondition exists, the error result can include the information about the cause of the conflict.

Property	Type	Description	Filter Group and Version	Available Version
enhancedErrorType	String	Indicates the type of the <code>output</code> property. The value is either <code>null</code> or <code>RecordError</code> .	Small, 39.0	39.0
message	String	Description of the error.	Small, 39.0	39.0
output	Any response body	The response body returned by the requested resource. For example, if a successful request returns a <a href="#">Object Info</a> response body but an error triggers the Error with Output response body, the value of the <code>output</code> property is an Object Info response body.  When an error occurs related to record create or update, this value is <a href="#">Record Exceptions</a> .	Small, 39.0	39.0

## Field

A field's metadata.

Property Name	Type	Description	Filter Group and Version	Available Version
apiName	String	The API name for this field.	Small, 39.0	39.0
calculated	Boolean	Indicates whether the field is a custom formula field.	Small, 39.0	39.0
compound	Boolean	Indicates whether the field is a top-level compound field.  If the <code>dataType</code> is <code>Location</code> , this value is usually <code>false</code> .	Small, 39.0	39.0
controllerName	String	The name of the field that controls the values of this picklist.	Small, 39.0	39.0
createable	Boolean	Indicates whether the field can be created.	Small, 39.0	39.0
custom	Boolean	Indicates whether the field is custom.	Small, 39.0	39.0
dataType	String	Field type. One of these values: <ul style="list-style-type: none"> <li>• Address</li> <li>• Base64</li> <li>• Boolean</li> <li>• ComplexValue—ComplexValue Type (CVT).</li> <li>• Currency</li> <li>• Date</li> <li>• DateTime</li> <li>• Double</li> <li>• Email</li> <li>• EncryptedString</li> <li>• Int</li> <li>• Location</li> <li>• MultiPicklist</li> <li>• Percent</li> <li>• Phone</li> <li>• Picklist</li> <li>• Reference</li> <li>• String</li> <li>• TextArea</li> <li>• Time</li> </ul>	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> <li>Url</li> </ul>		
extraTypeInfo	String	<p>More data type information. One of these values:</p> <ul style="list-style-type: none"> <li>ExternalLookup—External lookup</li> <li>ImageUrl—Image url</li> <li>IndirectLookup—Indirect lookup</li> <li>PersonName—Person name</li> <li>PlainTextArea—Plain text area</li> <li>RichTextArea—Rich text area</li> <li>SwitchablePersonName—Switchable person name</li> </ul>	Small, 39.0	39.0
filterable	Boolean	Indicates whether the field is filterable. If true, then this field can be specified in the WHERE clause of a SOQL statement.	Small, 39.0	39.0
filteredLookupInfo	<a href="#">Filtered Lookup Info</a>	If the field is a reference field type with a lookup filter, this value contains the lookup information.	Small, 39.0	39.0
highScaleNumber	Boolean	Indicates whether the field stores numbers to 8 decimal places regardless of what's specified in the field details.	Small, 39.0	39.0
htmlFormatted	Boolean	Indicates whether the field has been formatted for HTML and should be encoded for display in HTML. Also indicates whether a field is a custom formula field that has an IMAGE text function.	Small, 39.0	39.0
label	String	Text label that is displayed next to the field in the Salesforce user interface. This label may be localized.	Small, 39.0	39.0
length	Integer	For string fields, the maximum size of the field in number of Unicode characters (not bytes).	Small, 39.0	39.0
nameField	Boolean	Indicates whether the field is a name field.	Small, 39.0	39.0



Property Name	Type	Description	Filter Group and Version	Available Version
<code>picklistValuesUrls</code>	Map<String, String>	A mapping of record type IDs to API URLs to use to get picklist values for this field in the context of a record type.	Small, 39.0	39.0
<code>precision</code>	Integer	For double fields, indicates the maximum number of digits that can be stored, on both sides of the decimal point.	Small, 39.0	39.0
<code>reference</code>	Boolean	Indicates whether the field is a foreign key reference to another record.	Small, 39.0	39.0
<code>referenceTargetField</code>	String	For indirect lookup relationships on external objects, the target custom field of the referenced object.	Medium, 39.0	39.0
<code>referenceToInfos</code>	<a href="#">Reference To Info</a> []	For fields that refer to other objects, this list includes information about the object types and name fields of the referenced objects.	Small, 39.0	39.0
<code>relationshipName</code>	String	The name of the relationship, if this relationship is a master-detail relationship field.	Small, 39.0	39.0
<code>required</code>	Boolean	Indicates whether the field is required on create or update.	Small, 39.0	39.0
<code>scale</code>	Integer	For double fields, indicates the number of digits to the right of the decimal point.	Small, 39.0	39.0
<code>sortable</code>	Boolean	Indicates whether a query can sort on this field.	Small, 39.0	39.0
<code>updateable</code>	Boolean	Indicates whether the field can be updated.	Small, 39.0	39.0

## Field Layout Component

A field in a record layout.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>componentType</code>	String	The value is <code>Field</code> .	Small, 39.0	39.0
<code>label</code>	String	The label of the field.	Small, 39.0	39.0
<code>value</code>	String	The API name of the field.	Small, 39.0	39.0

## Field Value

The raw and displayable field values for a field in a record.

Property Name	Type	Description	Filter Group and Version	Available Version
displayValue	String	The displayable value for a field. For a date, this value is familiar to users rather than an ISO 8601 formatted date value, which is the raw form. Currency values are also formatted for display. If data can be localized to the context user's language using the <code>toLocale()</code> function, that value is also displayed here.	Small, 39.0	39.0
value	Object	The value of a field in its raw data form.	Small, 39.0	39.0

## Filtered Lookup Info

Metadata for a lookup filter.

Property Name	Type	Description	Filter Group and Version	Available Version
controllingFields	String[]	A collection of controlling fields when the lookup filter is dependent on the source object.	Small, 39.0	39.0
dependent	Boolean	Indicates whether the lookup filter is dependent on the source object.	Small, 39.0	39.0
optionalFilter	Boolean	Indicates whether the lookup filter is optional.	Small, 39.0	39.0

## Lead Status Picklist Value Attributes

Additional picklist value attributes for lead statuses.

Property Name	Type	Description	Filter Group and Version	Available Version
converted	Boolean	If this status indicates the lead has been converted, the value is <code>true</code> , otherwise <code>false</code> . For more info, see the documentation for the LeadStatus standard object.	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
picklistAttributeType	String	The value is <code>LeadStatus</code> . Indicates that these value attributes are associated with the status of a Lead.	Small, 39.0	39.0

## Location Field

A complex location value for a record field.

Property Name	Type	Description	Filter Group and Version	Available Version
latitude	Double	Gets the latitude of the location. This value maybe <code>null</code> if both latitude and longitude are null.	Small, 39.0	39.0
longitude	Double	Gets the longitude of the location. This value maybe <code>null</code> if both latitude and longitude are null.	Small, 39.0	39.0

## Opportunity Stage Picklist Value Attributes

Additional picklist value attributes for opportunity stages.

Property Name	Type	Description	Filter Group and Version	Available Version
closed	Boolean	Indicates whether this opportunity stage value represents a closed opportunity. Multiple opportunity stage values can represent a closed opportunity. For more info, see the doc for the OpportunityStage standard object.	Small, 39.0	39.0
defaultProbability	Double	The default percentage estimate of the confidence in closing a specific opportunity for this opportunity stage value. May be <code>null</code> if forecasting is not enabled for the org. For more info, see the doc for the OpportunityStage standard object.	Small, 39.0	39.0
forecastCategoryName	String	The default forecast category value for this opportunity stage value. May be <code>null</code> if forecasting is not enabled for the org. For more info, see the doc for the OpportunityStage standard object.	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
<code>picklistAttributesValueType</code>	String	The value is <code>OpportunityStage</code> . Indicates that these value attributes are associated with the status of a <code>Opportunity</code> .	Small, 39.0	39.0
<code>won</code>	Boolean	Indicates whether this opportunity stage value represents a won opportunity. Multiple opportunity stage values can represent a won opportunity. For more info, see the documentation for the <code>OpportunityStage</code> standard object.	Small, 39.0	39.0

## Picklist Value

A single picklist value.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>attributes</code>	Either <code>null</code> or one of these response bodies: <ul style="list-style-type: none"> <li><a href="#">Lead Status Picklist Value Attributes</a></li> <li><a href="#">Opportunity Stage Picklist Value Attributes</a></li> </ul>	For most picklist value types, this property is <code>null</code> . If the picklist value is a lead status or an opportunity stage, this value contains more attributes to help consumers understand the meaning of the value.	Medium, 39.0	39.0
<code>label</code>	String	The displayable value of the picklist to use in a UI.	Small, 39.0	39.0
<code>validFor</code>	Integer[]	If the picklist is a dependent picklist, the property contains a list of the controlling value indexes for which this value is valid. If the picklist is an independent picklist, the list is empty.	Small, 39.0	39.0
<code>value</code>	String	The value of the picklist to use in the API.	Small, 39.0	39.0

## Record Exceptions

A collection of record exception errors.

Property Name	Type	Description	Filter Group and Version	Available Version
errors	<a href="#">Record Exception Error []</a>	General errors.	Small, 39.0	39.0
fieldErrors	Map<String, <a href="#">Record Exception Error</a> >	Field-specific errors.	Small, 39.0	39.0

## Record Exception Error

Information about a record exception error.

Property Name	Type	Description	Filter Group and Version	Available Version
field	String	A field API name. If no field applies, value is null.	Small, 39.0	39.0
fieldLabel	String	A field label. If no field applies, value is null.	Small, 39.0	39.0
message	String	An error message	Small, 39.0	39.0
statusCode	String	An error status code	Small, 39.0	39.0

## Record Layout Component

A concrete record layout component.

Property Name	Type	Description	Filter Group and Version	Available Version
componentType	String	One of these values: <ul style="list-style-type: none"> <li>AnalyticsCloud</li> <li>Canvas</li> <li>CustomLink</li> <li>EmptySpace</li> <li>ExpandedLookup</li> <li>Field</li> <li>ReportChart</li> <li>Separator</li> <li>VisualforcePage</li> </ul>	Small, 39.0	39.0
value	String	The value of this component.	Small, 39.0	39.0

## Record Layout Item

An item in a record layout.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>editableForNew</code>	Boolean	Indicates whether the item may be edited on create	Small, 39.0	39.0
<code>editableForUpdate</code>	Boolean	Indicates whether the item may be edited on update	Small, 39.0	39.0
<code>label</code>	String	The text label for the item	Small, 39.0	39.0
<code>layoutComponents</code>	Collection of components. Collection can contain any of these components: <ul style="list-style-type: none"> <li><a href="#">Canvas Layout Component</a></li> <li><a href="#">Custom Link Layout Component</a></li> <li><a href="#">Field Layout Component</a></li> <li><a href="#">Record Layout Component</a></li> <li><a href="#">Report Layout Component</a></li> <li><a href="#">Visualforce Layout Component</a></li> </ul>	A collection of components that make up the item	Small, 39.0	39.0
<code>lookupIdApiName</code>	String	The ID field name of a lookup field.	Small, 39.0	39.0
<code>sortable</code>	Boolean	Indicates whether the item is sortable	Small, 39.0	39.0

## Record Layout Row

A row in a record layout.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>layoutItems</code>	<a href="#">Record Layout Item</a> []	A collection of items in the row, from left to right. Might not extend to the last column.	Small, 39.0	39.0

## Record Layout Section

A section in a record layout.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>columns</code>	Integer	The number of columns in the section.	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
heading	String	The heading text for the section.	Small, 39.0	39.0
isCollapsed	Boolean	Indicates whether the section should initially be displayed as collapsed.	Medium, 39.0	39.0
layoutRows	<a href="#">Record Layout Row</a> []	A collection of the rows in the section.	Small, 39.0	39.0
rows	Integer	The number of rows in the section.	Small, 39.0	39.0
useHeading	Boolean	Indicates whether the heading text is expected to be displayed.	Medium, 39.0	39.0

## Record Type Info

Information about a record type.

Property Name	Type	Description	Filter Group and Version	Available Version
available	Boolean	Indicates whether this record type is available to the context user when creating a new record.	Small, 39.0	39.0
defaultRecordTypeMapping	Boolean	Indicates whether this is the default record type mapping for the associated object.	Small, 39.0	39.0
master	Boolean	Indicates whether this is the master record type. The master record type is the default record type that's used when a record has no custom record type associated with it.	Small, 39.0	39.0
name	String	The record type's API name.	Small, 39.0	39.0
recordTypeId	String	The ID of the record type.	Small, 39.0	39.0

## Reference To Info

Information about a reference field's referenced types and the name field names of those types.

Property Name	Type	Description	Filter Group and Version	Available Version
apiName	String	The object API name of a type being referenced in a relationship.	Small, 39.0	39.0
nameFields	String[]	A collection of names of the name fields for this object type. Combined with the	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
		relationship name, you can determine how to query this type's name fields, for example, <code>Parent.Name</code> . Typically there is one name field per object, except where <code>FirstName</code> and <code>LastName</code> fields are used.		

## Report Layout Component

A report chart component on a record layout page.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>cacheData</code>	Boolean	Indicates whether to cache data ( <code>true</code> ) or not ( <code>false</code> ).	Small, 39.0	39.0
<code>componentType</code>	String	The value is <code>ReportChart</code> .	Small, 39.0	39.0
<code>error</code>	String	An error message.	Small, 39.0	39.0
<code>filter</code>	String	A filter for the report.	Small, 39.0	39.0
<code>hideOnError</code>	Boolean	Indicates whether to hide the component when there's an error ( <code>true</code> ) or not ( <code>false</code> ).	Small, 39.0	39.0
<code>placeholder</code>	String	A placeholder for the report.	Small, 39.0	39.0
<code>reportId</code>	String	The component's report ID.	Small, 39.0	39.0
<code>showTitle</code>	Boolean	Indicates whether to show the title of the report ( <code>true</code> ) or not ( <code>false</code> ).	Small, 39.0	39.0
<code>size</code>	String	The size of the component.	Small, 39.0	39.0
<code>value</code>	String	The value of the component.	Small, 39.0	39.0

## Theme Info

Color and icon information for a theme.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>color</code>	String	Color	Small, 39.0	39.0
<code>iconUrl</code>	String	Icon URL	Small, 39.0	39.0



## Visualforce Layout Component

A Visualforce component on a record layout page.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>componentType</code>	String	The value is <code>VisualforcePage</code> .	Small, 39.0	39.0
<code>height</code>	String	The height of the component.	Small, 39.0	39.0
<code>showLabel</code>	Boolean	Indicates whether to show the section label with this Visualforce component ( <code>true</code> ) or not ( <code>false</code> ).	Small, 39.0	39.0
<code>showScroll</code>	Boolean	Indicates whether to show the scroll bar on the canvas component ( <code>true</code> ) or not ( <code>false</code> ).	Small, 39.0	39.0
<code>value</code>	String	The value of this component.	Small, 39.0	39.0
<code>visualforceUrl</code>	String	The Visualforce URL.	Small, 39.0	39.0
<code>width</code>	String	The width of the component.	Small, 39.0	39.0

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