



# Continuation Class

Use the `Continuation` class to make callouts asynchronously to a SOAP or REST Web service.

## Namespace

[System](#)

## Example

For a code example, see [Make Long-Running Callouts from a Visualforce Page](#).

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## Continuation Constructors

The following are constructors for `Continuation`.

- [Continuation\(timeout\)](#)  
Creates an instance of the `Continuation` class by using the specified timeout in seconds. The timeout maximum is 120 seconds.

### Continuation(timeout)

Creates an instance of the `Continuation` class by using the specified timeout in seconds. The timeout maximum is 120 seconds.

#### Signature

```
public Continuation(Integer timeout)
```

#### Parameters

##### *timeout*

Type: [Integer](#)

The timeout for this continuation in seconds.

## Continuation Properties

The following are properties for `Continuation`.

- [continuationMethod](#)  
The name of the callback method that is called after the callout response returns.
- [timeout](#)  
The timeout of the continuation in seconds. Maximum: 120 seconds.
- [state](#)  
Data that is stored in this continuation and that can be retrieved after the callout is finished and the callback method is invoked.



```
public String continuationMethod {get; set;}
```

#### Property Value

Type: [String](#)

#### Usage

##### Note

If the `continuationMethod` property is not set for a Continuation, the same action method that made the asynchronous callout is called again when the callout response returns.

## timeout

The timeout of the continuation in seconds. Maximum: 120 seconds.

#### Signature

```
public Integer timeout {get; set;}
```

#### Property Value

Type: [Integer](#)

## state

Data that is stored in this continuation and that can be retrieved after the callout is finished and the callback method is invoked.

#### Signature

```
public Object state {get; set;}
```

#### Property Value

Type: Object

#### Example

This example shows how to save state information for a continuation in a controller.

```
// Declare inner class to hold state info
private class StateInfo {
    String msg { get; set; }
    List<String> urls { get; set; }
    StateInfo(String msg, List<String> urls) {
        this.msg = msg;
        this.urls = urls;
    }
}

// Then in the action method, set state for the continuation
continuationInstance.state = new StateInfo('Some state data', urls);
```

## Continuation Methods

The following are methods for Continuation.



pairs.

- **`getResponse(requestLabel)`**

Returns the response for the request that corresponds to the specified label.

## **`addHttpRequest(request)`**

Adds the HTTP request for the callout that is associated with this continuation.

### **Signature**

```
public String addHttpRequest(System.HttpRequest request)
```

### **Parameters**

#### ***request***

Type: [HttpRequest](#)

The HTTP request to be sent to the external service by this continuation.

### **Return Value**

Type: [String](#)

A unique label that identifies the HTTP request that is associated with this continuation. This label is used in the map that [getRequests\(\)](#) returns to identify individual requests in a continuation.

### **Usage**

You can add up to three requests to a continuation.

#### **Note**

The timeout that is set in each passed-in request is ignored. Only the global timeout maximum of 120 seconds applies for a continuation.

## **`getRequests()`**

Returns all labels and requests that are associated with this continuation as key-value pairs.

### **Signature**

```
public Map<String,System.HttpRequest> getRequests()
```

### **Return Value**

Type: `Map<String,HttpRequest>`

A map of all requests that are associated with this continuation. The map key is the request label, and the map value is the corresponding HTTP request.

## **`getResponse(requestLabel)`**

Returns the response for the request that corresponds to the specified label.

### **Signature**

```
public static HttpResponse getResponse(String requestLabel)
```

### **Parameters**

#### ***requestLabel***



Type: [HttpResponse](#)

Usage

The status code is returned in the `HttpResponse` object and can be obtained by calling `getStatusCode()` on the response. A status code of 200 indicates that the request was successful. Other status code values indicate the type of problem that was encountered.

Sample of Error Status Codes

When a problem occurs with the response, some possible status code values are:

- 2000: The timeout was reached, and the server didn't get a chance to respond.
- 2001: There was a connection failure.
- 2002: Exceptions occurred.
- 2003: The response hasn't arrived (which also means that the Apex asynchronous callout framework hasn't resumed).
- 2004: The response size is too large (greater than 1 MB).

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