

FunctionsClient API Reference

Add Chainlink to your project

If you need to integrate Chainlink into your project, install the [@chainlink/contracts NPM package](#).

- If you use [NPM](#): `npm install @chainlink/contracts --save`
- If you use [Yarn](#): `yarn add @chainlink/contracts`

Functions contracts are available starting from version 0.7.1.

Consumer contract developers inherit [FunctionsClient](#) to create Chainlink Functions requests.

Events

[RequestSent](#)

`eventRequestSent(bytes32id)`

[RequestFulfilled](#)

`eventRequestFulfilled(bytes32id)`

Errors

[OnlyRouterCanFulfill](#)

`errorOnlyRouterCanFulfill()`

Methods

[constructor](#)

`constructor(addressrouter)`

[_sendRequest](#)

`function _sendRequest(bytesdata, uint64subscriptionId, uint32callbackGasLimit, bytes32donId) internal returns (bytes32)` Sends a Chainlink Functions request to the stored router address

[Parameters](#)

Name	Type	Description
<code>data</code>	<code>bytes</code>	The CBOR encoded bytes data for a Functions request
<code>subscriptionId</code>	<code>uint64</code>	The subscription ID that will be charged to service the request
<code>callbackGasLimit</code>	<code>uint32</code>	the amount of gas that will be available for the fulfillment
<code>callbackdonId</code>	<code>bytes32</code>	

[Return Values](#)

Name	Type	Description
<code>requestId</code>	<code>bytes32</code>	The generated request ID for this request

[fulfillRequest](#)

`function fulfillRequest(bytes32requestId, bytesresponse, byteserr) internal virtual` User defined function to handle a response from the DON

Either response or error parameter will be set, but never both

[Parameters](#)

Name	Type	Description
<code>requestId</code>	<code>bytes32</code>	The request ID, returned by <code>sendRequest()</code>
<code>response</code>	<code>bytes</code>	Aggregated response from the execution of the user's source code
<code>err</code>	<code>bytes</code>	Aggregated error from the execution of the user code or from the execution pipeline

[handleOracleFulfillment](#)

`functionhandleOracleFulfillment(bytes32requestId,bytesresponse,byteserr)`external Chainlink Functions response handler called by the Functions Router during fulfillment from the designated transmitter node in an OCR round

Either response or error parameter will be set, but never both

Parameters

NameTypeDescriptionrequestIdbytes32The requestId returned by `FunctionsClient.sendRequest().responsebytesAggregated` response from the request's source code.errbytesAggregated error either from the request's source code or from the execution pipeline.