

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

[Return Values](#)

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