

Optional - TransactionSubscribeOptions:

commitment: Option : Specifies the commitment level for fetching data, dictating at what stage of the transactions lifecycle updates are sent. The possible values are * processed * confirmed * finalized
encoding: Option : Sets the encoding format of the returned transaction data. The possible values are * base58 * base64 * base64+zstd * jsonParsed transactionDetails: Option Determines the level of detail for the returned transaction data. The possible values are * full * signatures * accounts * none showRewards: Option : A boolean flag indicating if reward data should be included in the transaction updates. maxSupportedTransactionVersion: Option : Specifies the highest version of transactions you want to receive updates for.

Transaction Subscribe code example:

In this example we are subscribing to transactions that contain the account `8uDncGPZHJtFnyCktVsbDwmg17xAiHgwwq8ZmxKaK5JZ1`. Whenever a transaction occurs that contains `8uDncGPZHJtFnyCktVsbDwmg17xAiHgwwq8ZmxKaK5JZ1` in the `accountKeys` of the transaction, we will receive a websocket notification. Based on the subscription options, the transaction notification will be sent at the processed commitment level, with base64 encoding, full transaction details, and will show rewards. `const WebSocket =`

```

require ( 'ws' ); // Create a WebSocket connection const ws =
new
WebSocket ( 'wss://atlas-mainnet.helius-rpc.com?api-key=' ); // Function to send a request to the WebSocket server function
sendRequest ( ws )
{ const request =
{ jsonrpc :
"2.0" , id :
420 , method :
"transactionSubscribe" , params :
[ { accountInclude :
[ "8uDncGPHZJtFnyCktVSbdWmgt7xAiHgwq8ZmxKaK5ZJ1" ] } , { commitment :
"processed" , encoding :
"base64" , transactionDetails :
"full" , showRewards :
true , maxSupportedTransactionVersion :
0 } ] } ; ws . send ( JSON . stringify ( request ) ); } // Define WebSocket event handlers ws . on ( 'open' ,
function
open ()
{ console . log ( 'WebSocket is open' ); sendRequest ( ws );
// Send a request once the WebSocket is open }); ws . on ( 'message' ,
function
incoming ( data )
{ const messageStr = data . toString ( 'utf8' ); try
{ const messageObj =
JSON . parse ( messageStr ); console . log ( 'Received:' , messageObj ); }
catch
( e )
{ console . error ( 'Failed to parse JSON:' , e ); } } ); ws . on ( 'error' ,
function
error ( err )
{ console . error ( 'WebSocket error:' , err ); } ); ws . on ( 'close' ,
function
close ()
{ console . log ( 'WebSocket is closed' ); } );

```

Account Subscribe

Helius Websockets supports a method to subscribe to an account and receive notifications over the websocket connection when the lamports or data for a matching account public key changes. This method matches the Solana Websocket API `accountSubscribe` spec exactly. See the Solana docs for more: <https://docs.solana.com/api/websocket#accountsubscribe> Example Payload: `{ "jsonrpc":`

[illegible]

Parameters:

String : Account public key, sent in base58 format, required object: Option: Optional object used to pass in encoding for the data returned in the AccountNotification and commitment If nothing is passed into the object, the response will default to base58 encoding and a finalized commitment level. pub

struct

RpcAccountInfoConfig

```
{ pub encoding :
```

Option < UiAccountEncoding

,

```
// supported values: base58, base64, base64+zstd, jsonParsed pub commitment :
```

Option < CommitmentConfig

,

```
// supported values: finalized, confirmed, processed - defaults to finalized }
```

Account Subscribe code example:

In this example we are subscribing to account changes for the account SysvarC1ock11111111111111111111111111111111 .

Whenever a change occurs to the account data or the lamports for this account, we will see an update. This happens at a frequent interval for this specific account as the slot and unixTimestamp are both a part of the returned account data. // Create a WebSocket connection const ws =

new

```
WebSocket ( 'wss://atlas-mainnet.helius-rpc.com?api-key=' ); // Function to send a request to the WebSocket server function
```

```
sendRequest ( ws )
```

```
{ const request =
```

```
{ jsonrpc :
```

"2.0" , id :

420 , method :

"accountSubscribe", params :

[illegible]

```
// pubkey of account we want to subscribe to { encoding :
```

```
"jsonParsed" ,
```

```
// base58, base64, base65+zstd, jsonParsed commitment :
```

"confirmed" ,

```
// defaults to finalized if unset } ]]; ws . send ( JSON . stringify ( request )); } // Define WebSocket event handlers ws . on ( 'open',
```

function

open ()

```
{ console . log ( 'WebSocket is open' ); sendRequest ( ws );
```

```
// Send a request once the WebSocket is open }); ws . on ( 'message' ,
```

function

incoming (data)

```
{ const messageStr = data . toString ( 'utf8' ); try
```

```
{ const messageObj =
```

```
JSON . parse ( messageStr ); console . log ( 'Received:' , messageObj ); }
```

catch

(e)

```
{ console.error('Failed to parse JSON:', e); } }); ws.on('error',
```

function

```
error ( err )
```

```
{ console.error('WebSocket error:', err); }); ws.on('close',
```

function

```
close ()
```

`{ console.log('WebSocket is closed'); });`[Previous FAQ Next- Solana APIs Enhanced Transactions API](#) Last modified 1mo ago