

The logo for SYSIO, with 'SYS' in black and 'IO' in blue. The background features a dark blue triangle in the top-left and bottom-right corners, and a light blue circle with white grid lines in the center.

API Reference Document

Version 1.0

[www.sysio.cloud](http://www.sysio.cloud)



# SYSIO

Welcome to the initial release of SYSIO v1.0

ENDPOINTS

DAPP SUPPORT

VERIFICATION

IDENTITY SERVICES

ENCRYPTED MESSAGING

Sysio is comprised of a cluster of micro-services that function together to provide various supportive services to remote clients. It features an aggregator/indexer and a safe regulated bridge between end users/apps and the Syscoin network for real time calls. Going forward, SYSIO is ready to adapt and embrace additional core features as they become available.

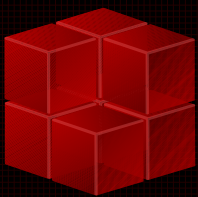
Since the last update, significant time has been spent in preparing a solid foundation. This initial release revolves around exposing fundamental information straight from the blockchain and to make it accessible from anywhere, in the easiest possible way, across the most devices.

This has been achieved and provides the bedrock from which the more advanced functionality will evolve and expand.



This document contains the initial reference docs for:

- BLOCKCHAIN
- MASTERNODES
- MARKETPLACE
- CERTIFICATES
- ASSETS
- IDENTITY



This is one of those situations where the bulk of the work is invisible. Behind the scenes, much has been improved upon from it's original prototype on the test server.

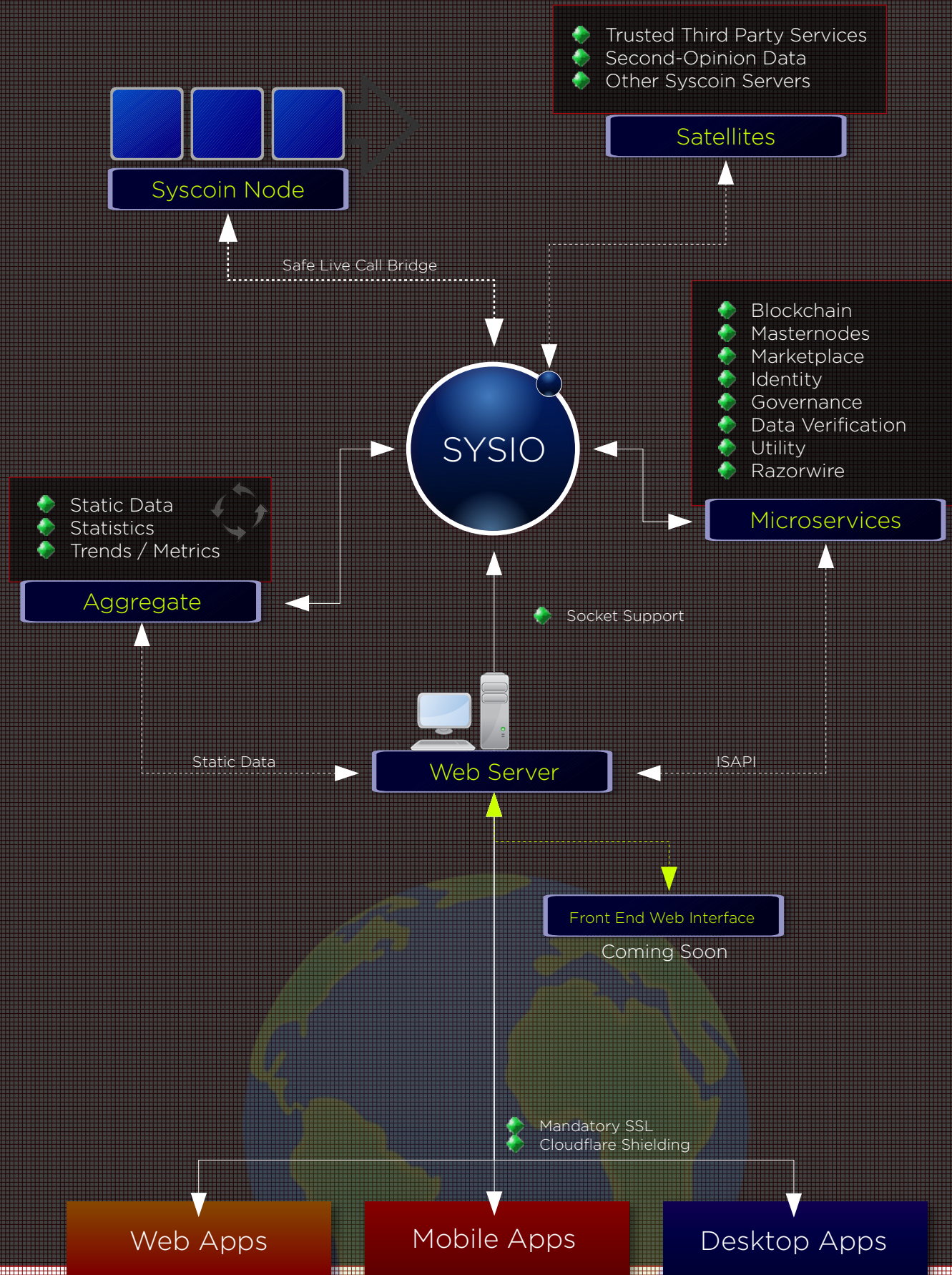
Thank you to everyone who voted in support of the SYSIO proposal, in one of the most engaged votes to date. As this is my initiative (Zontar), I'm sincerely grateful for the community support and faith placed in my efforts. I look forward to exceeding your expectations going forward.



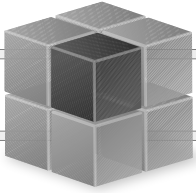
**SYSIO.CLOUD**

[www.sysio.cloud](http://www.sysio.cloud)

# General Schematic



**Blockchain API**  
sysio.cloud



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# BLOCKCHAIN

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## Blockchain Information

---

<https://www.sysio.cloud/syscoin/blockchain.dll/information/>

---

Returns the latest blockchain information. Equivalent to API [getblockchaininfo](#) method.

## Get Block Count

---

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/count/>

---

Returns the latest blockchain information. Equivilant to API [getblockchaininfo](#) method.

## Get Best Block Hash

---

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/bestblockhash/>

---

Returns the latest blockchain information. Equivilant to API [getblockchaininfo](#) method.

## Get Difficulty

---

<https://www.sysio.cloud/syscoin/blockchain.dll/information/difficulty/>

---

Returns the current chain difficulty. Equivalent to API [getdifficulty](#) method.

## Get Latest Block

---

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/latest/>

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/latest/header/>

---

Returns the latest valid block object (or it's header). Custom SYSIO methods.

## Get Chain Tips

---

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/chaintips/>

---

Returns the current chain tips. Equivilant to API [getchaintips](#) method.

## Get Block Hash

---

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getblockhash?height>

---

Returns the hash of the block at the requested height.  
Equivilant to API [getblockhash](#) method.

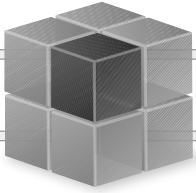
## Get Block Hashes

---

<https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getblockhashes?hightime&lowtime>

---

Returns an array of block hashes from the specified time range (in epoch seconds). The current maximum relative time span is currently limited to 1 week per call (604,800 seconds). Equivilant to API [getblockhashes](#) method.



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# BLOCKCHAIN

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## Get Block Header

---

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getblockheader?hash\\_or\\_height](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getblockheader?hash_or_height)

---

Returns the header of the requested block by hash or height. Equivalent to API [getblockheader](#), with added capability of supporting block height as a parameter.

## Get Block Headers

---

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getblockheaders?hash\\_or\\_height&range](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getblockheaders?hash_or_height&range)

---

Returns a range of block headers in a single call (JSON array). The first parameter represents the starting block by hash or height. The second parameter represents the number of headers to get. Currently the maximum number of headers per call is 2000. Equivalent to API [getblockheaders](#), with added capability of also supporting block height as the start block parameter.

## Get Super Block Budget

---

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getsuperblockbudget?hash\\_or\\_height](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/getsuperblockbudget?hash_or_height)

---

Returns the super block budget at a specific block. Equivalent to API [getsuperblockbudget](#) method, with added capability of supporting block height as a parameter.

## Get Block

---

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height)

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[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&hash](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&hash)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&confirmations](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&confirmations)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&size](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&size)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&height](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&height)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&version](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&version)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&versionhex](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&versionhex)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&merkleroot](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&merkleroot)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&time](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&time)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&mediantime](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&mediantime)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&nonce](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&nonce)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&bits](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&bits)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&difficulty](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&difficulty)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&chainwork](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&chainwork)

[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&previousblockhash](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&previousblockhash)

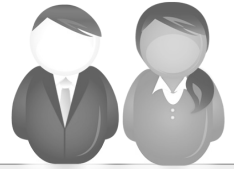
[https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash\\_or\\_height&nextblockhash](https://www.sysio.cloud/syscoin/blockchain.dll/blocks/get?hash_or_height&nextblockhash)

---

Returns the block data by hash or height, or an individual field thereof directly. Equivalent to API [getblock](#) method.

**Identity API**  
sysio.cloud





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## IDENTITY

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## ALIASES

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### Alias Count

---

<https://www.sysio.cloud/syscoin/identity.dll/alias/count/>

---

Returns information on the number of aliases.

### Alias Information

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias>

---

Provides information about an alias, equivalent to core API [aliasinfo](#) method.

### Alias - Offers

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&offers>

---

Currently returns a list of offer ids associated with this alias. This will be changed to returning a JSON array very soon.

### Alias - Transactions

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&transactions>

---

Returns a JSON array containing all detected transaction ids associated with [this](#) alias.  
*Note: This method isn't live yet, it'll be powered by a dedicated transaction microservice still being developed.*

### Alias - Keys

---

[https://www.sysio.cloud/syscoin/identity.dll/alias?alias&encryption\\_publickey](https://www.sysio.cloud/syscoin/identity.dll/alias?alias&encryption_publickey)

[https://www.sysio.cloud/syscoin/identity.dll/alias?alias&encryption\\_privatekey](https://www.sysio.cloud/syscoin/identity.dll/alias?alias&encryption_privatekey)

---

Returns respective keys used for encryption.

### Alias - Public Value

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&publicvalue>

---

Returns a the public value data field of the alias.

### Alias - Txid

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&txid>

---

Returns a the txid field of the alias.

### Alias - Time

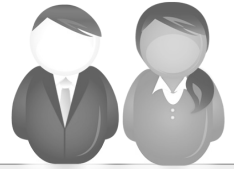
---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&time>

---

Returns the time (epoch) when the alias was created.





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## IDENTITY

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## ALIASES

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### Alias - Height

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&height>

---

Returns the block height at the alias creation.

### Alias - Address

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&address>

---

Returns the address associated with the alias.

### Alias - Accept Transfer Flags

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&accepttransferflags>

---

Returns the aliases accept transfer flags.

### Alias - Expires On

---

[https://www.sysio.cloud/syscoin/identity.dll/alias?alias&expires\\_on](https://www.sysio.cloud/syscoin/identity.dll/alias?alias&expires_on)

---

Returns the time (epoch) when the alias will expire.

### Alias - Expired

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&expired>

---

Returns a boolean value representing whether or not the alias specified is expired.

### Alias - Balance

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&balance>

---

Returns the current balance of the alias.

### Alias - Razorwire Address

---

[https://www.sysio.cloud/syscoin/identity.dll/alias?alias&razorwire\\_address](https://www.sysio.cloud/syscoin/identity.dll/alias?alias&razorwire_address)

---

Returns the Razorwire address derived from this syscoin alias. Placeholder for future update.

*Note: This method isn't live yet. Placeholder for next update.*

### Alias - Razorwire Quantum

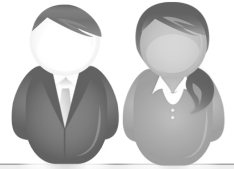
---

[https://www.sysio.cloud/syscoin/identity.dll/alias?alias&razorwire\\_quantum](https://www.sysio.cloud/syscoin/identity.dll/alias?alias&razorwire_quantum)

---

Returns the Razorwire quantum value for this alias. Placeholder for future update.

*Note: This method isn't live yet. Placeholder for next update.*



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## IDENTITY

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## ALIASES

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### Alias - First Name

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&firstname>

---

Returns the first name field as set by the alias owner, if set, otherwise blank.

### Alias - Last Name

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&lastname>

---

Returns the last name field as set by the alias owner, if set, otherwise blank.

### Alias - Last Updated

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&lastupdate>

---

Returns the time (epoch) when the alias was last updated.

### Alias - Location

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&location>

---

Returns the location field as set by alias owner, if set, otherwise blank.

### Alias - Bio

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&bio>

---

Returns the bio field as set by alias owner, if set, otherwise blank.

*Note: This method isn't live yet. Placeholder for future update.*

### Alias - PGP Public Key

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&pgppublickey>

---

Returns the PGP public key field as set by alias owner, if set, otherwise blank.

*Note: This method isn't live yet. Placeholder for future update.*

### Alias - Profile Image URL

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&avatarurl>

---

If the alias has an associated profile picture set, this method returns the current URL of the image. Otherwise returns a link to a silhouette placeholder (on Sysio server).

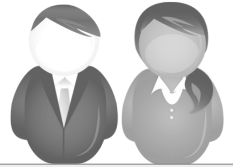
### Alias - Data Proof

---

<https://www.sysio.cloud/syscoin/identity.dll/alias?alias&dataproof>

---

Returns the data proof field of an alias object.



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IDENTITY

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ADDRESSES

---

### **Get Address Information**

---

<https://www.sysio.cloud/syscoin/identity.dll/address?address>

---

Returns information about the specified address.  
Equivalent to the API [validateaddress](#) method.

**Masternodes API**  
sysio.cloud

# MASTERNODES



---

## Masternode Count

---

<https://www.sysio.cloud/syscoin/masternodes.dll/count/>

---

Returns information on the current number of enabled masternodes.  
Equivalent to API [masternode count](#) method.

## Masternode List

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/>

---

Returns the list of masternodes with various metrics.  
Equivalent to API [masternodelist](#) method.

## Masternode List - Active Seconds

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/activeseconds/>

---

Returns a list of the active seconds of all masternodes.  
Equivalent to API [masternodelist activeseconds](#) method.

## Masternode List - Address

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/address/>

---

Returns a list of the address (host:port) of all masternodes.  
Equivalent to API [masternodelist addr](#) method.

## Masternode List - Daemon

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/daemon/>

---

Returns a list of the daemon version of all masternodes.  
Equivalent to API [masternodelist addr](#) method.

## Masternode List - Last Paid Block

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/lastpaidblock/>

---

Returns a list of the last paid block of all masternodes.  
Equivalent to API [masternodelist lastpaidblock](#) method.

## Masternode List - Last Paid Time

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/lastpaidtime/>

---

Returns a list of the last paid time of all masternodes.  
Equivalent to API [masternodelist lastpaidtime](#) method.

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# MASTERNODES

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## Masternode List - Last Seen

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/lastseen/>

---

Returns a list of the last seen time (epoch) of all masternodes.  
Equivalent to API [masternodelist lastseen](#) method.

---

## Masternode List - Payee

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/payee/>

---

Returns a list of payee Syscoin address of all masternodes.  
Equivalent to API [masternodelist payee](#) method.

---

## Masternode List - Protocol

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/protocol/>

---

Returns a list of the protocol version of all masternodes.  
Equivalent to API [masternodelist protocol](#) method.

---

## Masternode List - Rank

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/rank/>

---

Returns a list of the current ranks of all masternodes.  
Equivalent to API [masternodelist rank](#) method.

---

## Masternode List - Sentinel State

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/sentinelstate/>

---

Returns a list of the current sentinel state of all masternodes.  
Custom SYSIO method, based on API [masternodelist sentinel](#) method.

---

## Masternode List - Sentinel Version

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/sentinelversion/>

---

Returns a list of the current sentinel version of all masternodes.  
Custom SYSIO method, based on API [masternodelist sentinel](#) method.

---

## Masternode List - Status

---

<https://www.sysio.cloud/syscoin/masternodes.dll/list/status/>

---

Returns a list of the current status of all masternodes.  
Equivalent to API [masternodelist status](#) method.



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# MASTERNODES

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## Get Masternode

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid>

---

Returns the current data of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Active Seconds

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&activeseconds>

---

Returns the active seconds value of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Address

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&address>

---

Returns the address (host:port) value of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Daemon

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&daemon>

---

Returns the daemon version value of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Last Paid Block

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&lastpaidblock>

---

Returns the last paid block value of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Last Paid Time

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&lastpaidtime>

---

Returns the last paid time value of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Last Paid Time - Date Time

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&lastpaidtime-datetime>

---

Returns the last paid time value as a human readable datetime string of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

## Get Masternode - Last Seen

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&lastseen>

---

Returns the last seen value of the specified masternode by id.  
Custom SYSIO method, derived from API [masternode](#) method.



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# MASTERNODES

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## Get Masternode - Last Seen - Date Time

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&lastseen-datetime>

---

Returns the last seen value as a human readable datetime string of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Payee

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&payee>

---

Returns the payee Syscoin address of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Protocol

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&protocol>

---

Returns the protocol version of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Public Key

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&pubkey>

---

Returns the public key of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Rank

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&rank>

---

Returns the current rank of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Sentinel State

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&sentinelstate>

---

Returns the current sentinel state of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Sentinel Version

---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&sentinelversion>

---

Returns the current sentinel version of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

---

## Get Masternode - Status

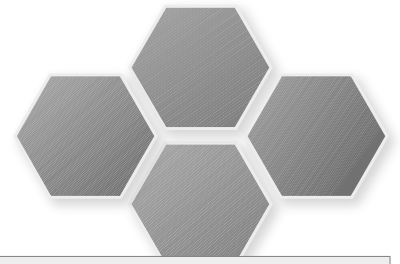
---

<https://www.sysio.cloud/syscoin/masternodes.dll/get?masternodeid&status>

---

Returns the current status of the specified masternode by id. Custom SYSIO method, derived from API [masternode](#) method.

**Governance API**  
sysio.cloud



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# GOVERNANCE

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## **Governance Information**

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<https://www.sysio.cloud/syscoin/governance.dll/information/>

---

Returns the current governance information. Equivalent to API [getgovernanceinfo](#) method.

## **Governance Information - Governance Minimum Quorum**

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<https://www.sysio.cloud/syscoin/governance.dll/information/governanceminquorum/>

---

Returns the governance minimum quorum value.

## **Governance Information - Last Super Block**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/lastsuperblock/>

---

Returns the last super block height.

## **Governance Information - Next Super Block**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/nextsuperblock/>

---

Returns the height of the next super block.

## **Governance Information - Max Governance Object Data Size**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/maxgovobjdatasize/>

---

Returns the maximum size of governance data objects.

## **Governance Information - Governance Minimum Quorum**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/governanceminquorum/>

---

Returns the governance minimum quorum value.

## **Governance Information - Proposal Fee**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/proposalfee/>

---

Returns the current proposal fee required to make a proposal.

## **Governance Information - Sentinel Ping Maximum Seconds**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/sentinelpingmaxseconds/>

---

Returns the maximum sentinel ping in seconds.

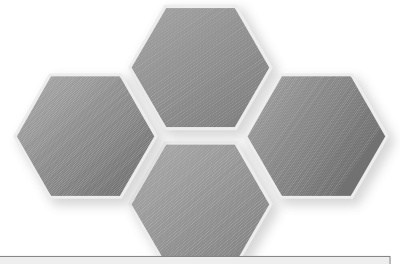
## **Governance Information - Super Block Cycle**

---

<https://www.sysio.cloud/syscoin/governance.dll/information/superblockcycle/>

---

Returns the height cycle of when super blocks occur.



---

# GOVERNANCE

---

## Governance List

---

<https://www.sysio.cloud/syscoin/governance.dll/list/>

---

Returns the list of current governance objects.  
Equivalent to API [gobject list](#) method.

## Governance Count

---

<https://www.sysio.cloud/syscoin/governance.dll/count/>  
<https://www.sysio.cloud/syscoin/governance.dll/count/erased/>  
[https://www.sysio.cloud/syscoin/governance.dll/count/objects\\_total/](https://www.sysio.cloud/syscoin/governance.dll/count/objects_total/)  
<https://www.sysio.cloud/syscoin/governance.dll/count/proposals/>  
<https://www.sysio.cloud/syscoin/governance.dll/count/triggers/>  
<https://www.sysio.cloud/syscoin/governance.dll/count/votes/>  
<https://www.sysio.cloud/syscoin/governance.dll/count/other/>

---

Returns the list of number of governance objects.  
Equivalent to API [gobject count](#) method.

## Governance Object

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid>

---

Returns a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

## Governance Object - Data Hex

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&datahex>

---

Returns the datahex value of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

## Governance Object - Data String

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&datastring>

---

Returns the data string value of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

## Governance Object - Collateral Hash

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&collateralhash>

---

Returns the collateral hash of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

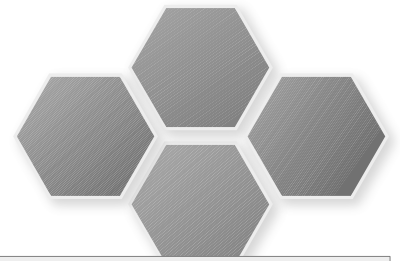
## Governance Object - Object Type

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&objecttype>

---

Returns the object type of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.



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# GOVERNANCE

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## **Governance Object - Creation Time**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&creationtime>

---

Returns the creation time of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

## **Governance Object - Absolute Yes Count**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&absoluteyescount>

---

Returns the absolute yes count of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

## **Governance Object - Yes Count**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&yescount>

---

Returns the yes count of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

## **Governance Object - No Count**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&nocount>

---

Returns the no count of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

## **Governance Object - Abstain Count**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&abstaincount>

---

Returns the abstain count of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

## **Governance Object - Blockchain Validity**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&blockchainvalidity>

---

Returns the blockchain validity value of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

## **Governance Object - Is Valid Reason**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&isvalidreason>

---

Returns the is valid reason value of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.

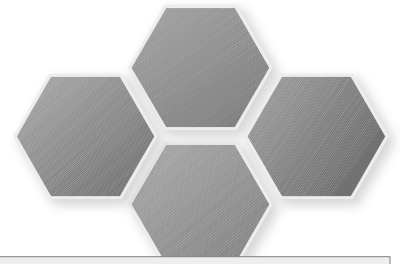
## **Governance Object - Cached Valid**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&cachedvalid>

---

Returns the cached valid value of a governance object by it's hash/id.  
Equivalent to API [object get](#) method.



---

# GOVERNANCE

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## **Governance Object - Cached Funding**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&cachedfunding>

---

Returns the cached funding value of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

## **Governance Object - Cached Delete**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&cacheddelete>

---

Returns the cached delete value of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

## **Governance Object - Cached Endorsed**

---

<https://www.sysio.cloud/syscoin/governance.dll/objects/get?objectid&cachedfunding>

---

Returns the cached endorsed value of a governance object by it's hash/id.  
Equivalent to API [gobject get](#) method.

Marketplace API  
sysio.cloud





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# MARKETPLACE

---

## Offers Count

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/count/>

---

Returns information on the current number of offers.

## Offers List

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/list/>

---

Returns a JSON array containing a list of offer objects.

## Offer Object

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid>

---

Returns an offer object by it's hash/id.

## Offer Object - Certificate

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&cert>

---

Returns an offer objects cert value by it's hash/id.

## Offer Object - Txid

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&txid>

---

Returns an offer objects txid value by it's hash/id.

## Offer Object - Expires On

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&expires\\_on](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&expires_on)

---

Returns an offer objects expires on value (epoch time) by it's hash/id.

## Offer Object - Expired

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&expired>

---

Returns a boolean value (true/false) representing whether or not the offer has expired.

## Offer Object - Height

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&height>

---

Returns the block at which an offer was created.



---

# MARKETPLACE

---

## Offer - Category

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&category>

---

Returns an offers category string.

## Offer - Category Code

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&categorycode>

---

Returns an offers category code.

SYSIO generates a category code from an offers category. The purpose of a category code in this context is for referring to a category in an URL-safe manner. Categories for example usually contain special characters which cause conflicting flags when used in a URL.

It's quite simple really, a category code is the category with special characters (include whitespace) removed, then converted to lowercase. For example: the category "Services > Labour" becomes category code "serviceslabour". When referring to categories in a URL call, SYSIO uses a categories code, not it's raw category string.

Internally, the category and code both refer to the same thing.

## Offer - Title

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&title>

---

Returns an offer title.

## Offer - Currency

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&currency>

---

Returns the three-character code of the currency used for the offer. Ie, SYS, USD, CAD, AUD.

## Offer - Price

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&price>

---

Returns the price of an offer (in the offers currency).

## Offer - Commission

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&commission>

---

Returns the commission value of an offer.

## Offer - Offer Link GUID

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offerlink\\_guid](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offerlink_guid)

---

Returns the offer link GUID value of an offer.



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# MARKETPLACE

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## Offer – Offer Link Seller

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offerlink\\_seller](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offerlink_seller)

---

Returns the offer link seller value of an offer.

## Offer – Payment Options

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&paymentoptions>

---

Returns the payment options value of an offer.

## Offer – Offer Units

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offer\\_units](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offer_units)

---

Returns the number of units value for the offer.

## Offer – Quantity

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&quantity>

---

Returns the quantity value of the offer.

## Offer – Private

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&private>

---

Returns the private value of the offer.

## Offer – Description

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&description>

---

Returns the description value of the offer.

## Offer – Alias

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&alias>

---

Returns the alias of the offers creator.

## Offer – Address

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&address>

---

Returns the address of the offers creator.

## Offer – Offer Type

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&offertype>

---

Returns the type flag of the offer.



---

# MARKETPLACE

---

## **Offer - Auction Expires On**

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction\\_expires\\_on](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction_expires_on)

---

Returns the auction expires on value of the offer.

## **Offer - Auction Reserve Price**

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction\\_reserve\\_price](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction_reserve_price)

---

Returns the auction reserve price of the offer.

## **Offer - Auction Require Witness**

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction\\_require\\_witness](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction_require_witness)

---

Returns the auction require witness value of the offer.

## **Offer - Auction Deposit**

---

[https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction\\_deposit](https://www.sysio.cloud/syscoin/marketplace.dll/offers/get?offerid&auction_deposit)

---

Returns the auction deposit value of the offer.



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## MARKETPLACE

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## SEARCHING

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Marketplace searching is actively being worked on, therefore it is not formally ready. The keywords search works (although likely to change in it's output), with most additional flags having zero effect yet. Likewise, the search statistics output may or may not exist if currently called. This is also undergoing development. Locally, the search functionality is quite evolved but won't go live on the server until it's ready. I expect those features to go live soon with the next update, for now, please consider this section more of a placeholder.

SYSIO aims to provide universal searching features – in this case for the de-centralised marketplace, allowing a versatile and highly customisable means of extracting relevant results from URL based queries. Additionally, the aggregation process can generate useful statistics and metrics such as trends and keyword popularity over different time periods.

The more advanced features take more time to develop. For this reason, only basic searching functionality is currently live on the server. Improvements and additional capabilities will roll out with additional updates as they're ready.

### Marketplace – Keyword Search

---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/search?keywords=word,word2>

---

Returns a JSON array of offer *references* within which the specified keywords are found. The keywords parameter should be a comma-separated list of keywords. The results contain the id of offers, along with how many 'hits' it has for the keywords, and details on how many times a keyword was detected within the offer, if detected.

### Marketplace – Keyword Search – Additional Flags

---

Include expired offers in results.	<code>&amp;include_expired</code>
Filter by category.	<code>&amp;category=[categorycode]</code>
Filter by offer currency.	<code>&amp;currency=[code]</code>
Filter by offer price.	<code>&amp;minprice=100 &amp;maxprice=300</code>
Filter by offer creator alias.	<code>&amp;alias=[alias]</code>
Perform a safe search	<code>&amp;safesearch=[boolean]</code>

### Marketplace – Search Statistics

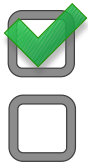
---

<https://www.sysio.cloud/syscoin/marketplace.dll/offers/search?statistics>

---

Returns a JSON, describing numerous details and metrics related to searches performed.

**Additional Notes**  
sysio.cloud



### **Independent Data Verification**

An example use case of Sysio is as an easy-to-access source for forming consensus on the accuracy of data acquired elsewhere. An independent second opinion.



### **Real Time RPC Calls**

Where real time data is required that needs a direct call via RPC, the clients call is made via to the node by SYSIO which acts as a broker. This is important behaviour under a server environment and ensures only whitelisted calls can be executed.



### **Time and Latency**

Data supplied from aggregate (static) is delivered instantly. Under normal usage most real time calls should return virtually instantly too, although of course in the real world there might be a little latency if the server is currently under high load/busy.



### **Error**

If any call fails, the default response is an empty JSON structure.



### **Avoid Excess Unnecessary Calls**

Use common sense and logic when deciding how frequently to make repeat calls. The server may interpret excessive numbers of unnecessary calls as spam and considers it negative behaviour. It has the ability to limit or even temporarily ban hosts deemed overly aggressive. This is to protect the quality of service for all users.



### **Open, Accessible and Free**

SYSIO is currently non-monetised, if you'd like to help support the project, any donations are appreciated, which helps to offset costs and lubricate progress.

“sysio” - SRSJ3ic6zeeht3H9jSteqtXsqTQmccrxhw



### **Further Support and Information**

A wide array of further documentation is planned. If you have any questions, suggestions or have discovered a bug or issue, please get in touch. @Zontar on Syscoin Slack and Syscoin Academy.