

Client

The Client methods all have to do with interacting with the storage and retrieval markets as a client

ClientCalcCommP

ClientCalcCommP calculates the CommP for a specified file

Perms: write

Inputs:

...

Copy ["string value"]

...

Response:

...

Copy { "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "Size":1024 }

...

ClientCancelDataTransfer

ClientCancelDataTransfer cancels a data transfer with the given transfer ID and other peer

Perms: write

Inputs:

...

Copy [3,"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",true]

...

Response: {}

ClientCancelRetrievalDeal

ClientCancelRetrievalDeal cancels an ongoing retrieval deal based on DealID

Perms: write

Inputs:

...

Copy [5]

...

Response: {}

ClientDataTransferUpdates

Perms: write

Inputs: null

Response:

...

Copy { "TransferID":3, "Status":1, "BaseCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "IsInitiator":true, "IsSender":true, "Voucher":"string value", "Message":"string value", "OtherPeer":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{ "Stages":[{ "Name":"string value", "Description":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-

```
01T00:00:00Z", "Logs":[ { "Log":"string value", "UpdateTime":"0001-01-01T00:00:00Z" } ] ] ] }
```

...

ClientDealPieceCID

ClientCalcCommP calculates the CommP and data size of the specified CID

Perms: read

Inputs:

...

```
Copy [ { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" } ]
```

...

Response:

...

```
Copy { "PayloadSize":9, "PieceSize":1032, "PieceCID":{  
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" } }
```

...

ClientDealSize

ClientDealSize calculates real deal data size

Perms: read

Inputs:

...

```
Copy [ { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" } ]
```

...

Response:

...

```
Copy { "PayloadSize":9, "PieceSize":1032 }
```

...

ClientExport

ClientExport exports a file stored in the local filestore to a system file

Perms: admin

Inputs:

...

```
Copy [ { "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "DAGs":[ {  
"DataSelector":"Links/21/Hash/Links/42/Hash", "ExportMerkleProof":true } ], "FromLocalCAR":"string value", "DealID":5 }, {  
"Path":"string value", "IsCAR":true } ]
```

...

Response:{}

ClientFindData

ClientFindData identifies peers that have a certain file, and returns QueryOffers (one per peer).

Perms: read

Inputs:

...

```
Copy [ { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, {  
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" } ]
```

...

Response:

...

```
Copy [ { "Err":"string value", "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },  
"Piece":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "Size":42, "MinPrice":"0",  
"UnsealPrice":"0", "PricePerByte":"0", "PaymentInterval":42, "PaymentIntervalIncrease":42, "Miner":"f01234", "MinerPeer":{  
"Address":"f01234", "ID":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "PieceCID":{  
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" } } } ]
```

...

ClientGenCar

ClientGenCar generates a CAR file for the specified file.

Perms: write

Inputs:

...

```
Copy [ { "Path":"string value", "IsCAR":true }, "string value" ]
```

...

Response:{}

ClientGetDealInfo

ClientGetDealInfo returns the latest information about a given deal.

Perms: read

Inputs:

...

```
Copy [ { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" } ]
```

...

Response:

...

```
Copy { "ProposalCid":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "State":42,  
"Message":"string value", "DealStages":{ "Stages":[ { "Name":"string value", "Description":"string value",  
"ExpectedDuration":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-01T00:00:00Z",  
"Logs":[ { "Log":"string value", "UpdatedTime":"0001-01-01T00:00:00Z" } ] } ], "Provider":"f01234", "DataRef":{  
"TransferType":"string value", "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },  
"PieceCid":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "PieceSize":1024,  
"RawBlockSize":42 }, "PieceCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },  
"Size":42, "PricePerEpoch":"0", "Duration":42, "DealID":5432, "CreationTime":"0001-01-01T00:00:00Z", "Verified":true,  
"TransferChannelID":{ "Initiator":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",  
"Responder":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "ID":3 }, "DataTransfer":{  
"TransferID":3, "Status":1, "BaseCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },  
"IsInitiator":true, "IsSender":true, "Voucher":"string value", "Message":"string value",  
"OtherPeer":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{ "Stages":[  
{ "Name":"string value", "Description":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-  
01T00:00:00Z", "Logs":[ { "Log":"string value", "UpdatedTime":"0001-01-01T00:00:00Z" } ] } ] } } }
```

...

ClientGetDealStatus

ClientGetDealStatus returns status given a code

Perms: read

Inputs:

...

Copy [42]

...

Response:"string value"

ClientGetDealUpdates

ClientGetDealUpdates returns the status of updated deals

Perms: write

Inputs:null

Response:

...

```
Copy { "ProposalCid":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "State":42,
"Message": "string value", "DealStages":{ "Stages":[ { "Name": "string value", "Description": "string value",
"ExpectedDuration": "string value", "CreatedTime": "0001-01-01T00:00:00Z", "UpdatedTime": "0001-01-01T00:00:00Z",
"Logs":{ { "Log": "string value", "UpdatedTime": "0001-01-01T00:00:00Z" } } ] }, "Provider": "f01234", "DataRef":{
"TransferType": "string value", "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"PieceCid":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "PieceSize":1024,
"RawBlockSize":42 }, "PieceCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"Size":42, "PricePerEpoch": "0", "Duration":42, "DealID":5432, "CreationTime": "0001-01-01T00:00:00Z", "Verified":true,
"TransferChannelID":{ "Initiator": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",
"Responder": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "ID":3 }, "DataTransfer":{
"TransferID":3, "Status":1, "BaseCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"IsInitiator":true, "IsSender":true, "Voucher": "string value", "Message": "string value",
"OtherPeer": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{ "Stages":[
{ "Name": "string value", "Description": "string value", "CreatedTime": "0001-01-01T00:00:00Z", "UpdatedTime": "0001-01-
01T00:00:00Z", "Logs":{ { "Log": "string value", "UpdatedTime": "0001-01-01T00:00:00Z" } } ] } } } }
```

...

ClientGetRetrievalUpdates

ClientGetRetrievalUpdates returns status of updated retrieval deals

Perms: write

Inputs:null

Response:

...

```
Copy { "PayloadCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "ID":5, "PieceCID":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "PricePerByte": "0", "UnsealPrice": "0",
"Status":0, "Message": "string value", "Provider": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",
"BytesReceived":42, "BytesPaidFor":42, "TotalPaid": "0", "TransferChannelID":{
"Initiator": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",
"Responder": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "ID":3 }, "DataTransfer":{
"TransferID":3, "Status":1, "BaseCID":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"IsInitiator":true, "IsSender":true, "Voucher": "string value", "Message": "string value",
"OtherPeer": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{ "Stages":[
{ "Name": "string value", "Description": "string value", "CreatedTime": "0001-01-01T00:00:00Z", "UpdatedTime": "0001-01-
01T00:00:00Z", "Logs":{ { "Log": "string value", "UpdatedTime": "0001-01-01T00:00:00Z" } } ] } }, "Event":5 }
```

...

ClientHasLocal

ClientHasLocal indicates whether a certain CID is locally stored.

Perms: write

Inputs:

...

Copy [{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }]

...

Response:true

ClientImport

ClientImport imports file under the specified path into filestore.

Perms: admin

Inputs:

...

Copy [{ "Path":"string value", "IsCAR":true }]

...

Response:

...

Copy { "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "ImportID":50 }

...

ClientListDataTransfers

ClientListTransfers returns the status of all ongoing transfers of data

Perms: write

Inputs:null

Response:

...

Copy [{ "TransferID":3, "Status":1, "BaseCID":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "IsInitiator":true, "IsSender":true,
"Voucher":"string value", "Message":"string value",
"OtherPeer":"12D3KooWGzXzKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{ "Stages":[
{ "Name":"string value", "Description":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-
01T00:00:00Z", "Logs":[{ "Log":"string value", "UpdatedTime":"0001-01-01T00:00:00Z" }] }] } }]

...

ClientListDeals

ClientListDeals returns information about the deals made by the local client.

Perms: write

Inputs:null

Response:

...

Copy [{ "ProposalCid":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "State":42,
"Message":"string value", "DealStages":{ "Stages":[{ "Name":"string value", "Description":"string value",

```
"ExpectedDuration":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-01T00:00:00Z",
"Logs":[ { "Log":"string value", "UpdatedTime":"0001-01-01T00:00:00Z" } ] } }, "Provider":"f01234", "DataRef":{
"TransferType":"string value", "Root":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"PieceCid":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "PieceSize":1024,
"RawBlockSize":42 }, "PieceCID":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"Size":42, "PricePerEpoch":"0", "Duration":42, "DealID":5432, "CreationTime":"0001-01-01T00:00:00Z", "Verified":true,
"TransferChannelID":{" Initiator":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",
"Responder":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "ID":3 }, "DataTransfer":{
"TransferID":3, "Status":1, "BaseCID":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"IsInitiator":true, "IsSender":true, "Voucher":"string value", "Message":"string value",
"OtherPeer":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{" Stages":[
{ "Name":"string value", "Description":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-
01T00:00:00Z", "Logs":[ { "Log":"string value", "UpdatedTime":"0001-01-01T00:00:00Z" } ] } ] } } } }
```

...

ClientListImports

ClientListImports lists imported files and their root CIDs

Perms: write

Inputs:null

Response:

...

```
Copy [ { "Key":50, "Err":"string value", "Root":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4"
}, "Source":"string value", "FilePath":"string value", "CARPath":"string value" } ]
```

...

ClientListRetrievals

ClientListRetrievals returns information about retrievals made by the local client

Perms: write

Inputs:null

Response:

...

```
Copy [ { "PayloadCID":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "ID":5, "PieceCID":{"
/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, "PricePerByte":"0", "UnsealPrice":"0",
"Status":0, "Message":"string value", "Provider":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",
"BytesReceived":42, "BytesPaidFor":42, "TotalPaid":"0", "TransferChannelID":{"
Initiator":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf",
"Responder":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "ID":3 }, "DataTransfer":{
"TransferID":3, "Status":1, "BaseCID":{" /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" },
"IsInitiator":true, "IsSender":true, "Voucher":"string value", "Message":"string value",
"OtherPeer":"12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "Transferred":42, "Stages":{" Stages":[
{ "Name":"string value", "Description":"string value", "CreatedTime":"0001-01-01T00:00:00Z", "UpdatedTime":"0001-01-
01T00:00:00Z", "Logs":[ { "Log":"string value", "UpdatedTime":"0001-01-01T00:00:00Z" } ] } ] }, "Event":5 } ]
```

...

ClientMinerQueryOffer

ClientMinerQueryOffer returns a QueryOffer for the specific miner and file.

Perms: read

Inputs:

...

```
Copy [ "f01234", { /":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" }, {
/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeif34fi3uy6uue42v4" } ]
```

...

Response:

...

```
Copy { "Err": "string value", "Root": { "/": "bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" }, "Piece": {
"/": "bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" }, "Size": 42, "MinPrice": "0", "UnsealPrice": "0",
"PricePerByte": "0", "PaymentInterval": 42, "PaymentIntervalIncrease": 42, "Miner": "f01234", "MinerPeer": { "Address": "f01234",
"ID": "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "PieceCID": {
"/": "bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" } } }
```

...

ClientQueryAsk

ClientQueryAsk returns a signed StorageAsk from the specified miner.

Perms: read

Inputs:

...

```
Copy ["12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "f01234"]
```

...

Response:

...

```
Copy { "Response": { "Price": "0", "VerifiedPrice": "0", "MinPieceSize": 1032, "MaxPieceSize": 1032, "Miner": "f01234",
"Timestamp": 10101, "Expiry": 10101, "SeqNo": 42 }, "DealProtocols": ["string value"] }
```

...

ClientRemoveImport

ClientRemoveImport removes file import

Perms: admin

Inputs:

...

```
Copy [50]
```

...

Response: {}

ClientRestartDataTransfer

ClientRestartDataTransfer attempts to restart a data transfer with the given transfer ID and other peer

Perms: write

Inputs:

...

```
Copy [3, "12D3KooWGzxxKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", true]
```

...

Response: {}

ClientRetrieve

ClientRetrieve initiates the retrieval of a file, as specified in the order.

Perms: admin

Inputs:

...

```
Copy [ { "Root":{ "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "Piece":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" },
"DataSelector":"Links/21/Hash/Links/42/Hash", "Size":42, "Total":"0", "UnsealPrice":"0", "PaymentInterval":42,
"PaymentIntervalIncrease":42, "Client":"f01234", "Miner":"f01234", "MinerPeer":{ "Address":"f01234",
"ID":"12D3KooWGzxzKZYveHXtpG6AsrUJBcWxHBFS2HsEoGTxrMLvKXtf", "PieceCID":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" } }, "RemoteStore":"00000000-0000-0000-
0000-000000000000" } ]
```

...

Response:

...

Copy { "DealID":5 }

...

ClientRetrieveTryRestartInsufficientFunds

ClientRetrieveTryRestartInsufficientFunds attempts to restart stalled retrievals on a given payment channel which are stuck due to insufficient funds

Perms: write

Inputs:

...

Copy ["f01234"]

...

Response: {}

ClientRetrieveWait

ClientRetrieveWait waits for retrieval to be complete

Perms: admin

Inputs:

...

Copy [5]

...

Response: {}

ClientStartDeal

ClientStartDeal proposes a deal with a miner.

Perms: admin

Inputs:

...

```
Copy [ { "Data":{ "TransferType":"string value", "Root":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "PieceCid":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "PieceSize":1024, "RawBlockSize":42 },
"Wallet":"f01234", "Miner":"f01234", "EpochPrice":"0", "MinBlocksDuration":42, "ProviderCollateral":"0",
"DealStartEpoch":10101, "FastRetrieval":true, "VerifiedDeal":true } ]
```


...

Response:

...

Copy { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }

...

ClientStatelessDeal

ClientStatelessDeal fire-and-forget-proposes an offline deal to a miner without subsequent tracking.

Perms: write

Inputs:

...

Copy [{ "Data":{ "TransferType":"string value", "Root":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "PieceCid":{
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }, "PieceSize":1024, "RawBlockSize":42 },
"Wallet":"f01234", "Miner":"f01234", "EpochPrice":"0", "MinBlocksDuration":42, "ProviderCollateral":"0",
"DealStartEpoch":10101, "FastRetrieval":true, "VerifiedDeal":true }]

...

Response:

...

Copy { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfezf34fi3uy6uue42v4" }

...

[Previous Chain Next Create](#)

Last updated5 months ago