Band CLI & REST Endpoints

You can get the RPC and REST endpoints from here .

Get Data Source by ID

CLI :bandd query oracle data-source [id] --node {RPC}

Path :/api/oracle/v1/data_sources/{id} Method :GET

bandd query oracle data-source 1 --node {RPC} curl -X GET " {REST} /oracle/v1/data_sources/1" { "data_source" :

{ "owner" :

"band1m5lq9u533qaya4q3nfyl6ulzqkpkhge9q8tpzs" , "name" :

"d1" , "description" :

"d1" , "filename" :

"c56de9061a78ac96748c83e8a22330accf6ee8ebb499c8525613149a70ec49d0" , "treasury" :

"band1m5lq9u533qaya4q3nfyl6ulzqkpkhge9q8tpzs" , "fee" :

[{ "denom" :

"uband" , "amount" :

"1" }] } }

Get Oracle Script by ID

CLI :bandd query oracle-script [id] --node {RPC}

Path :/api/oracle/v1/oracle_scripts/{id} Method :GET

bandd query oracle oracle-script 37 --node {RPC} curl -X GET " {REST} /oracle/v1/oracle_scripts/37" { "oracle_script" :

{ "owner" :

"band1lv90l7xf3jyneh046clyfujz2se6xkqgcvzs3p" , "name" :

"Band Standard Dataset (Crypto)" , "description" :

"" , "filename" :

"f0b7d894b25eca60e8519ca3d37b25ba1df2b01058ccf81ee825fa68293fcf16" , "schema" :

"{symbols:[string],multiplier:u64}/{rates:[u64]}" , "source_code_url" :

"" } }

Get Data Oracle Request by ID

CLI :bandd query request [id] --node {RPC}

Path :/api/oracle/v1/requests/{id} Method :GET

bandd query oracle request 238769 --node {RPC} curl -X GET " {REST} /oracle/v1/requests/238769" { "request" :

{ "oracle_script_id" :

"37" , "calldata" :

"AAAAAQAAAANCVEMAAAAAAA9CQA==" , "requested_validators" :

["bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus" , "bandvaloper1zrl8gmuj3vug7qy7yazzaenl25fvd3s3ussk40"] , "min_count" :

"2" , "request_height" :

"358324" , "request_time" :

"1632326855" , "client_id" :

"from_scan" , "raw_requests" :

[{ "external_id" :

"6" , "data_source_id" :

"61" , "calldata" :

"QlRD" } , { "external_id" :

"0" , "data_source_id" :

"57" , "calldata" :

"QlRD" } , { "external_id" :

"3" , "data_source_id" :

"62" , "calldata" :

"QlRD" } , { "external_id" :

"5" , "data_source_id" :

"60" , "calldata" :

"aHVvYmlwcm8gQlRD" } , { "external_id" :

"2" , "data_source_id" :

"59" , "calldata" :

"QlRD" } , { "external_id" :

"4" , "data_source_id" :

"60" , "calldata" :

"YmluYW5jZSBCVEM=" } , { "external_id" :

"9" , "data_source_id" :

"60" , "calldata" :

"Yml0dHJleCBCVEM=" } , { "external_id" :

"7" , "data_source_id" :

"60" , "calldata" :

"a3Jha2VuIEJUQw==" } , { "external_id" :

"8" , "data_source_id" :

"60" , "calldata" :

"Yml0ZmluZXgggQlRD" } , { "external_id" :

"1" , "data_source_id" :

"58" , "calldata" :

"QlRD" }] , "ibc_channel" : null, "execute_gas" :

"50000" } , "reports" :

[{ "validator" :

"bandvaloper1zrl8gmuj3vug7qy7yazzaenl25fvd3s3ussk40" , "in_before_resolve" : true, "raw_reports" :

[{ "external_id" :

"0" , "exit_code" :

0 , "data" :

"NDMyODEuMTQ0NQo=" } , { "external_id" :

"1" , "exit_code" :

0 , "data" :

"NDMyMTIuMjEK" } , { "external_id" :

"6" , "exit_code" :

0 , "data" :

"NDMxOTEuOAo=" } , { "external_id" :

"3" , "exit_code" :

0 , "data" :

"NDMyMDUuMjY0OQo=" } , { "external_id" :

"2" , "exit_code" :

0 , "data" :

"NDM0MjgK" } , { "external_id" :

"9" , "exit_code" :

0 , "data" :

"NDMxNzUuMjA3Cg==" } , { "external_id" :

"8" , "exit_code" :

0 , "data" :

"NDMxMDYuMAo=" } , { "external_id" :

"7" , "exit_code" :

0 , "data" :

"NDMxNzAuMgo=" } , { "external_id" :

"4" , "exit_code" :

0 , "data" :

"NDMzOTMuNDQ3OAo=" } , { "external_id" :

"5" , "exit_code" :

0 , "data" :

"NDM1OTUuMDk0Ngo=" }] } , { "validator" :

"bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus" , "in_before_resolve" : true, "raw_reports" :

[{ "external_id" :

"2" , "exit_code" :

0 , "data" :

"NDM0NDAK" } , { "external_id" :

"3" , "exit_code" :

0 , "data" :

"NDMyMDUuMjY0OQo=" } , { "external_id" :

"0" , "exit_code" :

0 , "data" :

"NDMyODEuMTQ0NQo=" } , { "external_id" :

"1" , "exit_code" :

0 , "data" :

"NDMyMTIuMjEK" } , { "external_id" :

"7" , "exit_code" :

0 , "data" :

"NDMxNzAuMgo=" } , { "external_id" :

"6" , "exit_code" :

0 , "data" :

"NDMxOTEuOAo=" } , { "external_id" :

"8" , "exit_code" :

0 , "data" :

"NDMxMDYuMAo=" } , { "external_id" :

"9" , "exit_code" :

0 , "data" :

"NDMxNzUuMjA3Cg==" } , { "external_id" :

"5" , "exit_code" :

0 , "data" :

"NDMzNzkuMjk3NAo=" } , { "external_id" :

"4" , "exit_code" :

0 , "data" :

"NDMzNjQuMzkkzMgo=" }] }] , "result" :

{ "client_id" :

"from_scan" , "oracle_script_id" :

"37" , "calldata" :

"AAAAAQAAAANCVEMAAAAAAA9CQA==" , "ask_count" :

"2" , "min_count" :

"2" , "request_id" :

"249802" , "ans_count" :

"2" , "request_time" :

"1632326855" , "resolve_time" :

"1632326863" , "resolve_status" :

"RESOLVE_STATUS_SUCCESS" , "result" :

"AAAAAQAAAoPcQKq" } }

Get Data Requests by Query Info

Path :/api/oracle/v1/request_search?oracle_script_id={oracleScriptID}&calldata={calldataHex}&min_count={minCount}&ask_count={askCount} Method :GET

curl -X GET " {REST} /oracle/v1/request_search?oracle_script_id=37&calldata=00000001000000034254430000000000000f4240&min_count=2&ask_count=2" { "request" :

{ "request" :

{ "oracle_script_id" :

"37" , "calldata" :

"AAAAAQAAAANCVEMAAAAAAA9CQA==" , "requested_validators" :

["bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus" , "bandvaloper1zrl8gmuj3vug7qy7yazzaenl25fvd3s3ussk40"] , "min_count" :

"2" , "request_height" :

"358324" , "request_time" :

"1632326855" , "client_id" :

"from_scan" , "raw_requests" :

[{ "external_id" :

"6" , "data_source_id" :

"61" , "calldata" :

"QlRD" } , { "external_id" :

"0" , "data_source_id" :

"57" , "calldata" :

"QlRD" } , { "external_id" :

"3" , "data_source_id" :

"62" , "calldata" :

"QlRD" } , { "external_id" :

"5" , "data_source_id" :

"60" , "calldata" :

"aHVvYmlwcm8gQlRD" } , { "external_id" :

"2" , "data_source_id" :

"59" , "calldata" :

"QlRD" } , { "external_id" :

"4" , "data_source_id" :

"60" , "calldata" :

"YmluYW5jZSBCVEM=" } , { "external_id" :

"9" , "data_source_id" :

"60" , "calldata" :

"Yml0dHJleCBCVEM=" } , { "external_id" :

"7" , "data_source_id" :

"60" , "calldata" :

"a3Jha2VuIEJUQw==" } , { "external_id" :

"8" , "data_source_id" :

"60" , "calldata" :

"Yml0ZmluZXggglRD" } , { "external_id" :

"1" , "data_source_id" :

"58" , "calldata" :

"QlRD" }] , "ibc_channel" : null, "execute_gas" :

"50000" } , "reports" :

[{ "validator" :

"bandvaloper1zrl8gmuj3vug7qy7yazzaenl25fvd3s3ussk40" , "in_before_resolve" : true, "raw_reports" :

[{ "external_id" :

"0" , "exit_code" :

0 , "data" :

"NDMyODEuMTQ0NQo=" } , { "external_id" :

"1" , "exit_code" :

0 , "data" :

"NDMyMTIuMjEK" } , { "external_id" :

"6" , "exit_code" :

0 , "data" :

"NDMxOTEuOAo=" } , { "external_id" :

"3" , "exit_code" :

0 , "data" :

"NDMyMDUuMjY0OQo=" } , { "external_id" :

"2" , "exit_code" :

0 , "data" :

"NDM0MjgK" } , { "external_id" :

"9" , "exit_code" :

0 , "data" :

"NDMxNzUuMjA3Cg==" } , { "external_id" :

"8" , "exit_code" :

0 , "data" :

"NDMxMDYuMAo=" } , { "external_id" :

"7" , "exit_code" :

0 , "data" :

"NDMxNzAuMgo=" } , { "external_id" :

"4" , "exit_code" :

0 , "data" :

"NDMzOTMuNDQ3OAo=" } , { "external_id" :

"5" , "exit_code" :

0 , "data" :

"NDM1OTUuMDk0Ngo=" }] } , { "validator" :

"bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus" , "in_before_resolve" : true, "raw_reports" :

[{ "external_id" :

"2" , "exit_code" :

0 , "data" :

"NDM0NDAK" } , { "external_id" :

"3" , "exit_code" :

0 , "data" :

"NDMyMDUuMjY0OQo=" } , { "external_id" :

"0" , "exit_code" :

0 , "data" :

"NDMyODEuMTQ0NQo=" } , { "external_id" :

"1" , "exit_code" :

0 , "data" :

"NDMyMTIuMjEK" } , { "external_id" :

"7" , "exit_code" :

0 , "data" :

"NDMxNzAuMgo=" } , { "external_id" :

"6" , "exit_code" :

0 , "data" :

"NDMxOTEuOAo=" } , { "external_id" :

"8" , "exit_code" :

0 , "data" :

"NDMxMDYuMAo=" } , { "external_id" :

"9" , "exit_code" :

0 , "data" :

"NDMxNzUuMjA3Cg==" } , { "external_id" :

"5" , "exit_code" :

0 , "data" :

"NDMzNzkuMjk3NAo=" } , { "external_id" :

"4" , "exit_code" :

0 , "data" :

"NDMzNjQuMzkzMgo=" }] }] , "result" :

{ "client_id" :

"from_scan" , "oracle_script_id" :

"37" , "calldata" :

"AAAAAQAAAANCVEMAAAAAAA9CQA==" , "ask_count" :

"2" , "min_count" :

"2" , "request_id" :

"249802" , "ans_count" :

"2" , "request_time" :

"1632326855" , "resolve_time" :

"1632326863" , "resolve_status" :

"RESOLVE_STATUS_SUCCESS" , "result" :

"AAAAAQAAAAoPcQKq" } } }

Get Data Content by Hash

Path :/oracle/v1/data/{data_hash} Method :GET

curl -X GET " {REST} /oracle/v1/data/32ee6262d4a615f2c3ca0589c1c1af79212f24823453cb3f4cfff85b8d338045" { "data" :

"IyEvdXNyL2Jpbi9lbnYgcHl0aG9uMwoKaW1wb3J0IGpzb24KaW1wb3J0IHVybGxpYi5yZXF1ZXN0CmltcG9ydCBzeXMKCkVUSF9HQVNfU1RBVElPTl9VUkwgPSAiaHR0cHM6Ly9ldGhnYXNzdGF0aW9
}

Get Active Status of a Validator

CLI :bandd query oracle validator [validator-address] --node {RPC}

Path :/api/oracle/v1/validators/{validator-address} Method :GET

bandd query oracle validator bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus --node {RPC} curl -X GET {REST} /oracle/v1/validators/bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus { "status" :

{ "is_active" : true, "since" :

"2021-09-07T14:52:54.598085215Z" } }

Check Grant of Account on This Validator

Path :/api/oracle/v1/reporter/{validator_address}/{reporter_address} Method :GET

curl -X GET " {REST} /oracle/v1/reporter/bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus/band1rgcrk9qttfjc5zfnmu63wj8503gc5r3wlagdrm" { "is_reporter" :

true }

Get Active Validators

CLI :bandd query oracle active-validators --node {RPC}

Path :/api/oracle/v1/active_validators Method :GET

bandd query oracle active-validators --node {RPC} curl -X GET " {REST} /oracle/v1/active_validators" { "validators" :

[{ "address" :

"bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus" , "power" :

"10132920646" } , { "address" :

"bandvaloper1ajna89zrh4u2kuvc6qqyak7fn9dqphlhuvg0jk" , "power" :

"10111034000" } , { "address" :

"bandvaloper1nlepx7xg53fsy6vslrss6adtmtl8a33kusv7fa" , "power" :

"10110700071" } , { "address" :

"bandvaloper1274qgg28xkz6f3upx05ftr9zepgmtfgts392dy" , "power" :

"10109100000" } , { "address" :

"bandvaloper1jengg99ssg9xq9dycemt782syyr4wwdn4d68s7" , "power" :

"10103500000" } , { "address" :

"bandvaloper1zkf9qzs7ayf3uqksxqwve8q693dsdhxk800wvw" , "power" :

"10101000000" } , ... } }

Get Pending Requests

bandd :bandd query oracle pending-requests [validator-address]

Path :/api/oracle/v1/pending_requests Method :GET

bandd query oracle pending-requests bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus --node {RPC} curl -X GET " {REST} /oracle/v1/pending_requests/bandvaloper1kfj48adjsnrgu83lau6wc646q2uf65rf84tzus" { "request_ids" :

["249764"] }

Get Latest Price on Standard Price Reference Database

Path :/oracle/v1/request_prices?ask_count={askCount}&min_count={minCount}&symbols={symbol-1}&symbols={symbol-2}&...&symbols={symbols-n} Method :GET

curl -X GET " {REST} /oracle/v1/request_prices?symbols=BTC&symbols=ETH&ask_count=4&min_count=3" { "price_results" :

[{ "symbol" :

"BTC" , "multiplier" :

"100" , "px" :

"4822795" , "request_id" :

"235866" , "resolve_time" :

"1631766659" } , { "symbol" :

"ETH" , "multiplier" :

"100" , "px" :

"303321" , "request_id" :

"245820" , "resolve_time" :

"1632163802" }] }

Get BandChain Oracle Governance Parameters

CLI :bandd query oracle params --node {RPC}

Path :/oracle/v1/params Method :GET

bandd query oracle params --node {RPC} curl -X GET " {REST} /oracle/v1/params" { "params" :

{ "max_raw_request_count" :

"12" , "max_ask_count" :

"16" , "max_calldata_size" :

"256" , "max_report_data_size" :

"512" , "expiration_block_count" :

"100" , "base_owasm_gas" :

"20000" , "per_validator_request_gas" :

"30000" , "sampling_try_count" :

"3" , "oracle_reward_percentage" :

"70" , "inactive_penalty_duration" :

"600000000000" , "ibc_request_enabled" :

true } }

Get BandChain Oracle Counts

CLI :bandd query oracle counts --node {RPC}

Path :/oracle/v1/counts Method :GET

bandd query oracle counts --node {RPC} curl -X GET " {REST} /oracle/v1/counts" { "data_source_count" :

"98" , "oracle_script_count" :

"61" , "request_count" :

"249073" } Previous API Endpoints Next Overview