# #

Protobuf Documentation

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Scalar Value Types

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#

cosmos/base/v1beta1/coin.proto

#

Coin

Coin defines a token with a denomination and an amount.

NOTE: The amount field is an Int which implements the custom method signatures required by gogoproto.

Field Type Label Description denom string amount string

#

DecCoin

DecCoin defines a token with a denomination and a decimal amount.

NOTE: The amount field is an Dec which implements the custom method signatures required by gogoproto.

Field Type Label Description denom string amount string

#

DecProto

DecProto defines a Protobuf wrapper around a Dec object.

Field Type Label Description dec string

#

IntProto

IntProto defines a Protobuf wrapper around an Int object.

Field Type Label Description int string end messagesend enumsend HasExtensionsend services

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#

coinswap/coinswap.proto

#

Input

Input defines the properties of order's input

Field Type Label Description address string coin cosmos.base.v1beta1.Coin

#

Output

Output defines the properties of order's output

Field Type Label Description address string coin cosmos.base.v1beta1.Coin

#

Params

Params defines token module's parameters

Field Type Label Description fee cosmos.base.v1beta1.Coin

#

Pool

Field Type Label Description id string standard_denom string

denom of base coin of the pool counterparty_denomstring

denom of counterparty coin of the pool escrow_addressstring

escrow account for deposit tokens lpt_denom string

denom of the liquidity pool coin end messagesend enumsend HasExtensionsend services

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coinswap/genesis.proto

#

GenesisState

GenesisState defines the coinswap module's genesis state

Field Type Label Description params Params standard_denom string pool Pool repeated sequence uint64 end messagesend enumsend HasExtensionsend services

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#

cosmos/base/query/v1beta1/pagination.proto

#

PageRequest

PageRequest is to be embedded in gRPC request messages for efficient pagination. Ex:

message SomeRequest { Foo some_parameter = 1; PageRequest pagination = 2; }

Field Type Label Description key bytes

key is a value returned in PageResponse.next_key to begin querying the next page most efficiently. Only one of offset or key should be set. offset uint64

offset is a numeric offset that can be used when key is unavailable. It is less efficient than using key. Only one of offset or key should be set. limit uint64

limit is the total number of results to be returned in the result page. If left empty it will default to a value to be set by each app. count_total bool

count_total is set to true to indicate that the result set should include a count of the total number of items available for pagination in UIs. count_total is only respected when offset is used. It is ignored when key is set.

#

PageResponse

PageResponse is to be embedded in gRPC response messages where the corresponding request message has used PageRequest.

message SomeResponse { repeated Bar results = 1; PageResponse page = 2; }

Field Type Label Description next_key bytes

next_key is the key to be passed to PageRequest.key to query the next page most efficiently totalUint64

total is total number of results available if PageRequest.count_total was set, its value is undefined otherwise end messagesend enumsend HasExtensionsend services

Top

#

coinswap/query.proto

#

PoolInfo

Field Type Label Description id string escrow_address string

escrow account for deposit tokens standard cosmos.base.v1beta1.Coin

main token balance token cosmos.base.v1beta1.Coin

counterparty token balance lpt cosmos.base.v1beta1.Coin

liquidity token balance fee string

liquidity pool fee

#

QueryLiquidityPoolRequest

QueryLiquidityPoolRequest is request type for the Query/LiquidityPool RPC method

Field Type Label Description lpt_denom string

#

QueryLiquidityPoolResponse

QueryLiquidityPoolResponse is response type for the Query/LiquidityPool RPC method

Field Type Label Description pool PoolInfo

#

QueryLiquidityPoolsRequest

QueryLiquidityPoolsRequest is request type for the Query/LiquidityPools RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryLiquidityPoolsResponse

QueryLiquidityPoolsResponse is response type for the Query/LiquidityPools RPC method

Field Type Label Description pools PoolInfo repeated pagination cosmos.base.query.v1beta1.PageResponse end messagesend enumsend HasExtensions

#

Query

Query creates service with coinswap as rpc

Method Name Request Type Response Type Description HTTP Verb Endpoint LiquidityPool QueryLiquidityPoolRequest QueryLiquidityPoolResponse LiquidityPool returns the liquidity pool for the provided lpt_denom GET /irismod/coinswap/pools/{lpt_denom} LiquidityPools QueryLiquidityPoolsRequest QueryLiquidityPoolsResponse LiquidityPools returns all the liquidity pools available GET /irismod/coinswap/pools end services

Top

# #

coinswap/tx.proto

#

MsgAddLiquidity

MsgAddLiquidity defines a msg for adding liquidity to a reserve pool

Field Type Label Description max_token cosmos.base.v1beta1.Coin exact_standard_amt string min_liquidity string deadline int64 sender string

#

MsgAddLiquidityResponse

MsgAddLiquidityResponse defines the Msg/AddLiquidity response type

Field Type Label Description mint_token cosmos.base.v1beta1.Coin

#

MsgRemoveLiquidity

MsgRemoveLiquidity defines a msg for removing liquidity from a reserve pool

Field Type Label Description withdraw_liquidity cosmos.base.v1beta1.Coin min_token string min_standard_amt string deadline int64 sender string

#

MsgRemoveLiquidityResponse

MsgRemoveLiquidityResponse defines the Msg/RemoveLiquidity response type

Field Type Label Description withdraw_coins cosmos.base.v1beta1.Coin repeated

#

MsgSwapCoinResponse

MsgSwapCoinResponse defines the Msg/SwapCoin response type

#

MsgSwapOrder

MsgSwapOrder defines a msg for swap order

Field Type Label Description input Input output Output deadline int64 is_buy_order bool end messagesend enumsend HasExtensions

#

Msg

Msg defines the coinswap Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint AddLiquidity MsgAddLiquidity MsgAddLiquidityResponse AddLiquidity defines a method for depositing some tokens to the liquidity pool RemoveLiquidity MsgRemoveLiquidity MsgRemoveLiquidityResponse RemoveLiquidity defines a method for withdraw some tokens from the liquidity pool SwapCoin MsgSwapOrder MsgSwapCoinResponse SwapCoin defines a method for swapping a token with the other token from the liquidity pool end services

Top

# #

cosmos/auth/v1beta1/auth.proto

#

BaseAccount

BaseAccount defines a base account type. It contains all the necessary fields for basic account functionality. Any custom account type should extend this type for additional functionality (e.g. vesting).

Field Type Label Description address string pub_key google.protobuf.Any account_number uint64 sequence uint64

#

ModuleAccount

ModuleAccount defines an account for modules that holds coins on a pool.

Field Type Label Description base_account BaseAccount name string permissions string repeated

#

Params

Params defines the parameters for the auth module.

Field Type Label Description max_memo_characters uint64 tx_sig_limit uint64 tx_size_cost_per_byte uint64 sig_verify_cost_ed25519 uint64 sig_verify_cost_secp256k1 uint64 end messagesend enumsend HasExtensionsend services

Top

# #

cosmos/auth/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the auth module's genesis state.

Field Type Label Description params Params

params defines all the paramaters of the module. accountsgoogle.protobuf.Any repeated accounts are the accounts present at genesis. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/auth/v1beta1/query.proto

#

QueryAccountRequest

QueryAccountRequest is the request type for the Query/Account RPC method.

Field Type Label Description address string

address defines the address to query for.

#

QueryAccountResponse

QueryAccountResponse is the response type for the Query/Account RPC method.

Field Type Label Description account google.protobuf.Any

account defines the account of the corresponding address.

#

QueryParamsRequest

QueryParamsRequest is the request type for the Query/Params RPC method.

#

QueryParamsResponse

QueryParamsResponse is the response type for the Query/Params RPC method.

Field Type Label Description params Params

params defines the parameters of the module. end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint Account QueryAccountRequest QueryAccountResponse Account returns account details based on address. GET /cosmos/auth/v1beta1/accounts/{address} Params QueryParamsRequest QueryParamsResponse Params queries all parameters. GET /cosmos/auth/v1beta1/params end services

Top

#

cosmos/bank/v1beta1/bank.proto

#

DenomUnit

DenomUnit represents a struct that describes a given denomination unit of the basic token.

Field Type Label Description denom string

denom represents the string name of the given denom unit (e.g uatom). exponentuint32

exponent represents power of 10 exponent that one must raise the base_denom to in order to equal the given DenomUnit's denom 1 denom = 1^exponent base_denom (e.g. with a base_denom of uatom, one can create a DenomUnit of 'atom' with exponent = 6, thus: 1 atom = 10^6 uatom). aliases string repeated aliases is a list of string aliases for the given denom

#

Input

Input models transaction input.

Field Type Label Description address string coins cosmos.base.v1beta1.Coin repeated

#

Metadata

Metadata represents a struct that describes a basic token.

Field Type Label Description description string denom_units DenomUnit repeated denom_units represents the list of DenomUnit's for a given coin base string

base represents the base denom (should be the DenomUnit with exponent = 0). displaystring

display indicates the suggested denom that should be displayed in clients.

#

Output

Output models transaction outputs.

Field Type Label Description address string coins cosmos.base.v1beta1.Coin repeated

#

Params

Params defines the parameters for the bank module.

Field Type Label Description send_enabled SendEnabled repeated default_send_enabled bool

#

SendEnabled

SendEnabled maps coin denom to a send_enabled status (whether a denom is sendable).

Field Type Label Description denom string enabled bool

#

Supply

Supply represents a struct that passively keeps track of the total supply amounts in the network.

Field Type Label Description total cosmos.base.v1beta1.Coin repeated end messagesend enumsend HasExtensionsend services

Top

#

cosmos/bank/v1beta1/genesis.proto

#

Balance

Balance defines an account address and balance pair used in the bank module's genesis state.

Field Type Label Description address string

address is the address of the balance holder. coinscosmos.base.v1beta1.Coin repeated coins defines the different coins this balance holds.

#

GenesisState

GenesisState defines the bank module's genesis state.

Field Type Label Description params Params

params defines all the paramaters of the module. balancesBalance repeated balances is an array containing the balances of all the accounts. supply cosmos.base.v1beta1.Coin repeated supply represents the total supply. denom_metadataMetadata repeated denom_metadata defines the metadata of the differents coins. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/bank/v1beta1/query.proto

#

QueryAllBalancesRequest

QueryBalanceRequest is the request type for the Query/AllBalances RPC method.

Field Type Label Description address string

address is the address to query balances for. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryAllBalancesResponse

QueryAllBalancesResponse is the response type for the Query/AllBalances RPC method.

Field Type Label Description balances cosmos.base.v1beta1.Coin repeated balances is the balances of all the coins. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryBalanceRequest

QueryBalanceRequest is the request type for the Query/Balance RPC method.

Field Type Label Description address string

address is the address to query balances for. denomstring

denom is the coin denom to query balances for.

#

QueryBalanceResponse

QueryBalanceResponse is the response type for the Query/Balance RPC method.

Field Type Label Description balance cosmos.base.v1beta1.Coin

balance is the balance of the coin.

#

QueryDenomMetadataRequest

QueryDenomMetadataRequest is the request type for the Query/DenomMetadata RPC method.

Field Type Label Description denom string

denom is the coin denom to query the metadata for.

#

QueryDenomMetadataResponse

QueryDenomMetadataResponse is the response type for the Query/DenomMetadata RPC method.

Field Type Label Description metadata Metadata

metadata describes and provides all the client information for the requested token.

#

QueryDenomsMetadataRequest

QueryDenomsMetadataRequest is the request type for the Query/DenomsMetadata RPC method.

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDenomsMetadataResponse

QueryDenomsMetadataResponse is the response type for the Query/DenomsMetadata RPC method.

Field Type Label Description metadatas Metadata repeated metadata provides the client information for all the registered tokens. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryParamsRequest

QueryParamsRequest defines the request type for querying x/bank parameters.

#

QueryParamsResponse

QueryParamsResponse defines the response type for querying x/bank parameters.

Field Type Label Description params Params

#

QuerySupplyOfRequest

QuerySupplyOfRequest is the request type for the Query/SupplyOf RPC method.

Field Type Label Description denom string

denom is the coin denom to query balances for.

#

QuerySupplyOfResponse

QuerySupplyOfResponse is the response type for the Query/SupplyOf RPC method.

Field Type Label Description amount cosmos.base.v1beta1.Coin

amount is the supply of the coin.

#

QueryTotalSupplyRequest

QueryTotalSupplyRequest is the request type for the Query/TotalSupply RPC method.

#

QueryTotalSupplyResponse

QueryTotalSupplyResponse is the response type for the Query/TotalSupply RPC method

Field Type Label Description supply cosmos.base.v1beta1.Coin repeated supply is the supply of the coins end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint Balance QueryBalanceRequest QueryBalanceResponse Balance queries the balance of a single coin for a single account. GET /cosmos/bank/v1beta1/balances/{address}/{denom} AllBalances QueryAllBalancesRequest QueryAllBalancesResponse AllBalances queries the balance of all coins for a single account. GET /cosmos/bank/v1beta1/balances/{address} TotalSupply QueryTotalSupplyRequest QueryTotalSupplyResponse TotalSupply queries the total supply of all coins. GET /cosmos/bank/v1beta1/supply SupplyOf QuerySupplyOfRequest QuerySupplyOfResponse SupplyOf queries the supply of a single coin. GET /cosmos/bank/v1beta1/supply/{denom} Params QueryParamsRequest QueryParamsResponse Params queries the parameters of x/bank module. GET /cosmos/bank/v1beta1/params DenomMetadata QueryDenomMetadataRequest QueryDenomMetadataResponse DenomsMetadata queries the client metadata of a given coin denomination. GET /cosmos/bank/v1beta1/denoms_metadata/{denom} DenomsMetadata QueryDenomsMetadataRequest QueryDenomsMetadataResponse DenomsMetadata queries the client metadata for all registered coin denominations. GET /cosmos/bank/v1beta1/denoms_metadata end

services

Top

#

cosmos/bank/v1beta1/tx.proto

#

MsgMultiSend

MsgMultiSend represents an arbitrary multi-in, multi-out send message.

Field Type Label Description inputs Input repeated outputs Output repeated

#

MsgMultiSendResponse

MsgMultiSendResponse defines the Msg/MultiSend response type.

#

MsgSend

MsgSend represents a message to send coins from one account to another.

Field Type Label Description from_address string to_address string amount cosmos.base.v1beta1.Coin repeated

#

MsgSendResponse

MsgSendResponse defines the Msg/Send response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the bank Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint SendMsgSend MsgSendResponse Send defines a method for sending coins from one account to another account. MultiSend MsgMultiSend MsgMultiSendResponse MultiSend defines a method for sending coins from some accounts to other accounts. end services

Top

#

cosmos/base/abci/v1beta1/abci.proto

#

ABCIMessageLog

ABCIMessageLog defines a structure containing an indexed tx ABCI message log.

Field Type Label Description msg_index uint32 log string events StringEvent repeated Events contains a slice of Event objects that were emitted during some execution.

#

Attribute

Attribute defines an attribute wrapper where the key and value are strings instead of raw bytes.

Field Type Label Description key string value string

#

GasInfo

GasInfo defines tx execution gas context.

Field Type Label Description gas_wanted uint64

GasWanted is the maximum units of work we allow this tx to perform. gas_used uint64

GasUsed is the amount of gas actually consumed.

#

MsgData

MsgData defines the data returned in a Result object during message execution.

Field Type Label Description msg_type string data bytes

#

Result

Result is the union of ResponseFormat and ResponseCheckTx.

Field Type Label Description data bytes

Data is any data returned from message or handler execution. It MUST be length prefixed in order to separate data from multiple message executions. log string

Log contains the log information from message or handler execution. events tendermint.abci.Event repeated Events contains a slice of Event objects that were emitted during message or handler execution.

#

SearchTxsResult

SearchTxsResult defines a structure for querying txs pageable

Field Type Label Description total_count uint64

Count of all txs count uint64

Count of txs in current page page_number uint64

Index of current page, start from 1 page_total uint64

Count of total pages limit uint64

Max count txs per page txs TxResponse repeated List of txs in current page

#

SimulationResponse

SimulationResponse defines the response generated when a transaction is successfully simulated.

Field Type Label Description gas_info GasInfo result Result

#

StringEvent

StringEvent defines en Event object wrapper where all the attributes contain key/value pairs that are strings instead of raw bytes.

Field Type Label Description type string attributes Attribute repeated

#

TxMsgData

TxMsgData defines a list of MsgData. A transaction will have a MsgData object for each message.

Field Type Label Description data MsgData repeated

#

TxResponse

TxResponse defines a structure containing relevant tx data and metadata. The tags are stringified and the log is JSON decoded.

Field Type Label Description height int64

The block height txhash string

The transaction hash. codespace string

Namespace for the Code code uint32

Response code. data string

Result bytes, if any. raw_log string

The output of the application's logger (raw string). May be non-deterministic. logs ABCIMessageLog repeated The output of the application's logger (typed). May be non-deterministic. info string

Additional information. May be non-deterministic. gas_wanted int64

Amount of gas requested for transaction. gas_used int64

Amount of gas consumed by transaction. tx google.protobuf.Any

The request transaction bytes. timestamp string

Time of the previous block. For heights > 1, it's the weighted median of the timestamps of the valid votes in the block.LastCommit. For height == 1, it's genesis time. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/base/kv/v1beta1/kv.proto

#

Pair

Pair defines a key/value bytes tuple.

Field Type Label Description key bytes value bytes

#

Pairs

Pairs defines a repeated slice of Pair objects.

Field Type Label Description pairs Pair repeated end messagesend enumsend HasExtensionsend services

Top

#

cosmos/base/reflection/v1beta1/reflection.proto

#

ListAllInterfacesRequest

ListAllInterfacesRequest is the request type of the ListAllInterfaces RPC.

#

ListAllInterfacesResponse

ListAllInterfacesResponse is the response type of the ListAllInterfaces RPC.

Field Type Label Description interface_names string repeated interface_names is an array of all the registered interfaces.

#

ListImplementationsRequest

ListImplementationsRequest is the request type of the ListImplementations RPC.

Field Type Label Description interface_name string

interface_name defines the interface to query the implementations for.

#

ListImplementationsResponse

ListImplementationsResponse is the response type of the ListImplementations RPC.

Field Type Label Description implementation_message_names string repeated end messagesend enumsend HasExtensions

#

ReflectionService

ReflectionService defines a service for interface reflection.

Method Name Request Type Response Type Description HTTP Verb Endpoint ListAllInterfaces ListAllInterfacesRequest ListAllInterfacesResponse ListAllInterfaces lists all the interfaces registered in the interface registry. GET /cosmos/base/reflection/v1beta1/interfaces ListImplementations ListImplementationsRequest ListImplementationsResponse ListImplementations list all the concrete types that implement a given interface. GET /cosmos/base/reflection/v1beta1/interfaces/{interface_name}/implementations end services

Top

#

cosmos/base/snapshots/v1beta1/snapshot.proto

#

Metadata

Metadata contains SDK-specific snapshot metadata.

Field Type Label Description chunk_hashes bytes repeated SHA-256 chunk hashes

#

Snapshot

Snapshot contains Tendermint state sync snapshot info.

Field Type Label Description height uint64 format uint32 chunks uint32 hash bytes metadata Metadata end messagesend enumsend HasExtensionsend services

Top

#

cosmos/base/store/v1beta1/commit_info.proto

#

CommitID

CommitID defines the committment information when a specific store is committed.

Field Type Label Description version int64 hash bytes

#

CommitInfo

CommitInfo defines commit information used by the multi-store when committing a version/height.

Field Type Label Description version int64 store_infos StoreInfo repeated

#

StoreInfo

StoreInfo defines store-specific commit information. It contains a reference between a store name and the commit ID.

Field Type Label Description name string commit_id CommitID end messagesend enumsend HasExtensionsend services

Top

#

cosmos/base/store/v1beta1/snapshot.proto

#

SnapshotIAVLItem

SnapshotIAVLItem is an exported IAVL node.

Field Type Label Description key bytes value bytes version int64 height int32

#

SnapshotItem

SnapshotItem is an item contained in a rootmulti.Store snapshot.

Field Type Label Description store SnapshotStoreItem iavl SnapshotIAVLItem

#

SnapshotStoreItem

SnapshotStoreItem contains metadata about a snapshotted store.

Field Type Label Description name string end messagesend enumsend HasExtensionsend services

Top

#

cosmos/base/tendermint/v1beta1/query.proto

#

GetBlockByHeightRequest

GetBlockByHeightRequest is the request type for the Query/GetBlockByHeight RPC method.

Field Type Label Description height int64

#

GetBlockByHeightResponse

GetBlockByHeightResponse is the response type for the Query/GetBlockByHeight RPC method.

Field Type Label Description block_id tendermint.types.BlockID block tendermint.types.Block

#

GetLatestBlockRequest

GetLatestBlockRequest is the request type for the Query/GetLatestBlock RPC method.

#

GetLatestBlockResponse

GetLatestBlockResponse is the response type for the Query/GetLatestBlock RPC method.

Field Type Label Description block_id tendermint.types.BlockID block tendermint.types.Block

#

GetLatestValidatorSetRequest

GetLatestValidatorSetRequest is the request type for the Query/GetValidatorSetByHeight RPC method.

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an pagination for the request.

#

GetLatestValidatorSetResponse

GetLatestValidatorSetResponse is the response type for the Query/GetValidatorSetByHeight RPC method.

Field Type Label Description block_height int64 validators Validator repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines an pagination for the response.

#

GetNodeInfoRequest

GetNodeInfoRequest is the request type for the Query/GetNodeInfo RPC method.

#

GetNodeInfoResponse

GetNodeInfoResponse is the request type for the Query/GetNodeInfo RPC method.

Field Type Label Description default_node_info tendermint.p2p.DefaultNodeInfo application_version VersionInfo

#

GetSyncingRequest

GetSyncingRequest is the request type for the Query/GetSyncing RPC method.

#

GetSyncingResponse

GetSyncingResponse is the response type for the Query/GetSyncing RPC method.

Field Type Label Description syncing bool

#

GetValidatorSetByHeightRequest

GetValidatorSetByHeightRequest is the request type for the Query/GetValidatorSetByHeight RPC method.

Field Type Label Description height int64 pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an pagination for the request.

#

GetValidatorSetByHeightResponse

GetValidatorSetByHeightResponse is the response type for the Query/GetValidatorSetByHeight RPC method.

Field Type Label Description block_height int64 validators Validator repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines an pagination for the response.

#

Module

Module is the type for VersionInfo

Field Type Label Description path string

module path version string

module version sum string

checksum

#

Validator

Validator is the type for the validator-set.

Field Type Label Description address string pub_key google.protobuf.Any voting_power int64 proposer_priority int64

#

VersionInfo

VersionInfo is the type for the GetNodeInfoResponse message.

Field Type Label Description name string app_name string version string git_commit string build_tags string go_version string build_deps Module repeated cosmos_sdk_version string end messagesend enumsend HasExtensions

#

Service

Service defines the gRPC querier service for tendermint queries.

Method Name Request Type Response Type Description HTTP Verb Endpoint GetNodeInfo GetNodeInfoRequest GetNodeInfoResponse GetNodeInfo queries the current node info. GET /cosmos/base/tendermint/v1beta1/node_info GetSyncing GetSyncingRequest GetSyncingResponse GetSyncing queries node syncing. GET /cosmos/base/tendermint/v1beta1/syncing GetLatestBlock GetLatestBlockRequest GetLatestBlockResponse GetLatestBlock returns the latest block. GET /cosmos/base/tendermint/v1beta1/blocks/latest GetBlockByHeight GetBlockByHeightRequest GetBlockByHeightResponse GetBlockByHeight queries block for given height. GET /cosmos/base/tendermint/v1beta1/blocks/{height} GetLatestValidatorSet GetLatestValidatorSetRequest GetLatestValidatorSetResponse GetLatestValidatorSet queries latest validator-set. GET /cosmos/base/tendermint/v1beta1/validatorsets/latest GetValidatorSetByHeight GetValidatorSetByHeightRequest GetValidatorSetByHeightResponse GetValidatorSetByHeight queries validator-set at a given height. GET /cosmos/base/tendermint/v1beta1/validatorsets/{height} end services

Top

# #

cosmos/capability/v1beta1/capability.proto

#

Capability

Capability defines an implementation of an object capability. The index provided to a Capability must be globally unique.

Field Type Label Description index uint64

#

CapabilityOwners

CapabilityOwners defines a set of owners of a single Capability. The set of owners must be unique.

Field Type Label Description owners Owner repeated

#

Owner

Owner defines a single capability owner. An owner is defined by the name of capability and the module name.

Field Type Label Description module string name string end messagesend enumsend HasExtensionsend services

Top

# #

cosmos/capability/v1beta1/genesis.proto

#

GenesisOwners

GenesisOwners defines the capability owners with their corresponding index.

Field Type Label Description index uint64

index is the index of the capability owner. index_ownersCapabilityOwners

index_owners are the owners at the given index.

#

GenesisState

GenesisState defines the capability module's genesis state.

Field Type Label Description index uint64

index is the capability global index. owners GenesisOwners repeated owners represents a map from index to owners of the capability index index key is string to allow amino marshalling. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/crisis/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the crisis module's genesis state.

Field Type Label Description constant_fee cosmos.base.v1beta1.Coin

constant_fee is the fee used to verify the invariant in the crisis module. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/crisis/v1beta1/tx.proto

#

MsgVerifyInvariant

MsgVerifyInvariant represents a message to verify a particular invariance.

Field Type Label Description sender string invariant_module_name string invariant_route string

#

MsgVerifyInvariantResponse

MsgVerifyInvariantResponse defines the Msg/VerifyInvariant response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the bank Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint VerifyInvariantMsgVerifyInvariant MsgVerifyInvariantResponse VerifyInvariant defines a method to verify a particular invariance. end services

Top

#

cosmos/crypto/ed25519/keys.proto

#

PrivKey

PrivKey defines a ed25519 private key.

Field Type Label Description key bytes

#

PubKey

PubKey defines a ed25519 public key Key is the compressed form of the pubkey. The first byte depends is a 0x02 byte if the y-coordinate is the lexicographically largest of the two associated with the x-coordinate. Otherwise the first byte is a 0x03. This prefix is followed with the x-coordinate.

Field Type Label Description key bytes end messagesend enumsend HasExtensionsend services

Top

#

cosmos/crypto/multisig/keys.proto

#

LegacyAminoPubKey

LegacyAminoPubKey specifies a public key type which nests multiple public keys and a threshold, it uses legacy amino address rules.

Field Type Label Description threshold uint32 public_keys google.protobuf.Any repeated end messagesend enumsend HasExtensionsend services

Top

#

cosmos/crypto/multisig/v1beta1/multisig.proto

#

CompactBitArray

CompactBitArray is an implementation of a space efficient bit array. This is used to ensure that the encoded data takes up a minimal amount of space after proto encoding. This is not thread safe, and is not intended for concurrent usage.

Field Type Label Description extra_bits_stored uint32 elems bytes

#

MultiSignature

MultiSignature wraps the signatures from a multisig.LegacyAminoPubKey. See cosmos.tx.v1betata1.ModeInfo.Multi for how to specify which signers signed and with which modes.

Field Type Label Description signatures bytes repeated end messagesend enumsend HasExtensionsend services

Top

#

cosmos/crypto/secp256k1/keys.proto

#

PrivKey

PrivKey defines a secp256k1 private key.

Field Type Label Description key bytes

#

PubKey

PubKey defines a secp256k1 public key Key is the compressed form of the pubkey. The first byte depends is a 0x02 byte if the y-coordinate is the lexicographically largest of the two associated with the x-coordinate. Otherwise the first byte is a 0x03. This prefix is followed with the x-coordinate.

Field Type Label Description key bytes end messagesend enumsend HasExtensionsend services

Top

#

cosmos/distribution/v1beta1/distribution.proto

#

CommunityPoolSpendProposal

CommunityPoolSpendProposal details a proposal for use of community funds, together with how many coins are proposed to be spent, and to which recipient account.

Field Type Label Description title string description string recipient string amount cosmos.base.v1beta1.Coin repeated

#

CommunityPoolSpendProposalWithDeposit

CommunityPoolSpendProposalWithDeposit defines a CommunityPoolSpendProposal with a deposit

Field Type Label Description title string description string recipient string amount string deposit string

#

DelegationDelegatorReward

DelegationDelegatorReward represents the properties of a delegator's delegation reward.

Field Type Label Description validator_address string reward cosmos.base.v1beta1.DecCoin repeated

#

DelegatorStartingInfo

DelegatorStartingInfo represents the starting info for a delegator reward period. It tracks the previous validator period, the delegation's amount of staking token, and the creation height (to check later on if any slashes have occurred). NOTE: Even though validators are slashed to whole staking tokens, the delegators within the validator may be left with less than a full token, thus sdk.Dec is used.

Field Type Label Description previous_period uint64 stake string height uint64

#

FeePool

FeePool is the global fee pool for distribution.

Field Type Label Description community_pool cosmos.base.v1beta1.DecCoin repeated

#

Params

Params defines the set of params for the distribution module.

Field Type Label Description community_tax string base_proposer_reward string bonus_proposer_reward string withdraw_addr_enabled bool

#

ValidatorAccumulatedCommission

ValidatorAccumulatedCommission represents accumulated commission for a validator kept as a running counter, can be withdrawn at any time.

Field Type Label Description commission cosmos.base.v1beta1.DecCoin repeated

#

ValidatorCurrentRewards

ValidatorCurrentRewards represents current rewards and current period for a validator kept as a running counter and incremented each block as long as the validator's tokens remain constant.

Field Type Label Description rewards cosmos.base.v1beta1.DecCoin repeated period uint64

#

ValidatorHistoricalRewards

ValidatorHistoricalRewards represents historical rewards for a validator. Height is implicit within the store key. Cumulative reward ratio is the sum from the zeroeth period until this period of rewards / tokens, per the spec. The reference count indicates the number of objects which might need to reference this historical entry at any point. ReferenceCount = number of outstanding delegations which ended the associated period (and might need to read that record)

- number of slashes which ended the associated period (and might need to read that record)
- one per validator for the zeroeth period, set on initialization

Field Type Label Description cumulative_reward_ratio cosmos.base.v1beta1.DecCoin repeated reference_count uint32

#

ValidatorOutstandingRewards

ValidatorOutstandingRewards represents outstanding (un-withdrawn) rewards for a validator inexpensive to track, allows simple sanity checks.

Field Type Label Description rewards cosmos.base.v1beta1.DecCoin repeated

#

ValidatorSlashEvent

ValidatorSlashEvent represents a validator slash event. Height is implicit within the store key. This is needed to calculate appropriate amount of staking tokens for delegations which are withdrawn after a slash has occurred.

Field Type Label Description validator_period uint64 fraction string

#

ValidatorSlashEvents

ValidatorSlashEvents is a collection of ValidatorSlashEvent messages.

Field Type Label Description validator_slash_events ValidatorSlashEvent repeated end messagesend enumsend HasExtensionsend services

Top

# #

cosmos/distribution/v1beta1/genesis.proto

#

DelegatorStartingInfoRecord

DelegatorStartingInfoRecord used for import / export via genesis json.

Field Type Label Description delegator_address string

delegator_address is the address of the delegator. validator_addressstring

validator_address is the address of the validator. starting_infoDelegatorStartingInfo

starting_info defines the starting info of a delegator.

#

DelegatorWithdrawInfo

DelegatorWithdrawInfo is the address for where distributions rewards are withdrawn to by default this struct is only used at genesis to feed in default withdraw addresses.

Field Type Label Description delegator_address string

delegator_address is the address of the delegator. withdraw_addressstring

withdraw_address is the address to withdraw the delegation rewards to.

#

GenesisState

GenesisState defines the distribution module's genesis state.

Field Type Label Description params Params

params defines all the paramaters of the module. fee_poolFeePool

fee_pool defines the fee pool at genesis. delegator_withdraw_infosDelegatorWithdrawInfo repeated fee_pool defines the delegator withdraw infos at genesis. previous_proposer string

fee_pool defines the previous proposer at genesis. outstanding_rewardsValidatorOutstandingRewardsRecord repeated fee_pool defines the outstanding rewards of all validators at genesis. validator_accumulated_commissions ValidatorAccumulatedCommissionRecord repeated fee_pool defines the accumulated commisions of all validators at genesis. validator_historical_rewards ValidatorHistoricalRewardsRecord repeated fee_pool defines the historical rewards of all validators at genesis. validator_current_rewards ValidatorCurrentRewardsRecord repeated fee_pool defines the current rewards of all validators at genesis. delegator_starting_infos DelegatorStartingInfoRecord repeated fee_pool defines the delegator starting infos at genesis. validator_slash_events ValidatorSlashEventRecord repeated fee_pool defines the validator slash events at genesis.

#

ValidatorAccumulatedCommissionRecord

ValidatorAccumulatedCommissionRecord is used for import / export via genesis json.

Field Type Label Description validator_address string

validator_address is the address of the validator. accumulatedValidatorAccumulatedCommission

accumulated is the accumulated commission of a validator.

#

ValidatorCurrentRewardsRecord

ValidatorCurrentRewardsRecord is used for import / export via genesis json.

Field Type Label Description validator_address string

validator_address is the address of the validator. rewardsValidatorCurrentRewards

rewards defines the current rewards of a validator.

#

ValidatorHistoricalRewardsRecord

ValidatorHistoricalRewardsRecord is used for import / export via genesis json.

Field Type Label Description validator_address string

validator_address is the address of the validator. perioduint64

period defines the period the historical rewards apply to. rewardsValidatorHistoricalRewards

rewards defines the historical rewards of a validator.

#

ValidatorOutstandingRewardsRecord

ValidatorOutstandingRewardsRecord is used for import/export via genesis json.

Field Type Label Description validator_address string

validator_address is the address of the validator. outstanding_rewardscosmos.base.v1beta1.DecCoin repeated outstanding_rewards represents the oustanding rewards of a validator.

#

ValidatorSlashEventRecord

ValidatorSlashEventRecord is used for import / export via genesis json.

Field Type Label Description validator_address string

validator_address is the address of the validator. heightuint64

height defines the block height at which the slash event occured. perioduint64

period is the period of the slash event. validator_slash_eventValidatorSlashEvent

validator_slash_event describes the slash event. end messagesend enumsend HasExtensionsend services

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#

cosmos/distribution/v1beta1/query.proto

#

QueryCommunityPoolRequest

QueryCommunityPoolRequest is the request type for the Query/CommunityPool RPC method.

#

QueryCommunityPoolResponse

QueryCommunityPoolResponse is the response type for the Query/CommunityPool RPC method.

Field Type Label Description pool cosmos.base.v1beta1.DecCoin repeated pool defines community pool's coins.

#

QueryDelegationRewardsRequest

QueryDelegationRewardsRequest is the request type for the Query/DelegationRewards RPC method.

Field Type Label Description delegator_address string

delegator_address defines the delegator address to query for. validator_addressstring

validator_address defines the validator address to query for.

#

QueryDelegationRewardsResponse

QueryDelegationRewardsResponse is the response type for the Query/DelegationRewards RPC method.

Field Type Label Description rewards cosmos.base.v1beta1.DecCoin repeated rewards defines the rewards accrued by a delegation.

#

QueryDelegationTotalRewardsRequest

QueryDelegationTotalRewardsRequest is the request type for the Query/DelegationTotalRewards RPC method.

Field Type Label Description delegator_address string

delegator_address defines the delegator address to query for.

#

QueryDelegationTotalRewardsResponse

QueryDelegationTotalRewardsResponse is the response type for the Query/DelegationTotalRewards RPC method.

Field Type Label Description rewards DelegationDelegatorReward repeated rewards defines all the rewards accrued by a delegator. total cosmos.base.v1beta1.DecCoin repeated total defines the sum of all the rewards.

#

QueryDelegatorValidatorsRequest

QueryDelegatorValidatorsRequest is the request type for the Query/DelegatorValidators RPC method.

Field Type Label Description delegator_address string

delegator_address defines the delegator address to query for.

#

QueryDelegatorValidatorsResponse

QueryDelegatorValidatorsResponse is the response type for the Query/DelegatorValidators RPC method.

Field Type Label Description validators string repeated validators defines the validators a delegator is delegating for.

#

QueryDelegatorWithdrawAddressRequest

QueryDelegatorWithdrawAddressRequest is the request type for the Query/DelegatorWithdrawAddress RPC method.

Field Type Label Description delegator_address string

delegator_address defines the delegator address to query for.

#

QueryDelegatorWithdrawAddressResponse

QueryDelegatorWithdrawAddressResponse is the response type for the Query/DelegatorWithdrawAddress RPC method.

Field Type Label Description withdraw_address string

withdraw_address defines the delegator address to query for.

#

QueryParamsRequest

QueryParamsRequest is the request type for the Query/Params RPC method.

#

QueryParamsResponse

QueryParamsResponse is the response type for the Query/Params RPC method.

Field Type Label Description params Params

params defines the parameters of the module.

#

QueryValidatorCommissionRequest

QueryValidatorCommissionRequest is the request type for the Query/ValidatorCommission RPC method

Field Type Label Description validator_address string

validator_address defines the validator address to query for.

#

QueryValidatorCommissionResponse

QueryValidatorCommissionResponse is the response type for the Query/ValidatorCommission RPC method

Field Type Label Description commission ValidatorAccumulatedCommission

commission defines the commision the validator received.

#

QueryValidatorOutstandingRewardsRequest

QueryValidatorOutstandingRewardsRequest is the request type for the Query/ValidatorOutstandingRewards RPC method.

Field Type Label Description validator_address string

validator_address defines the validator address to query for.

#

QueryValidatorOutstandingRewardsResponse

QueryValidatorOutstandingRewardsResponse is the response type for the Query/ValidatorOutstandingRewards RPC method.

Field Type Label Description rewards ValidatorOutstandingRewards

#

QueryValidatorSlashesRequest

QueryValidatorSlashesRequest is the request type for the Query/ValidatorSlashes RPC method

Field Type Label Description validator_address string

validator_address defines the validator address to query for. starting_heightuint64

starting_height defines the optional starting height to query the slashes. ending_heightuint64

starting_height defines the optional ending height to query the slashes. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryValidatorSlashesResponse

QueryValidatorSlashesResponse is the response type for the Query/ValidatorSlashes RPC method.

Field Type Label Description slashes ValidatorSlashEvent repeated slashes defines the slashes the validator received. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response. end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service for distribution module.

Method Name Request Type Response Type Description HTTP Verb Endpoint Params QueryParamsRequest QueryParamsResponse Params queries params of the distribution module. GET /cosmos/distribution/v1beta1/params ValidatorOutstandingRewards QueryValidatorOutstandingRewardsRequest QueryValidatorOutstandingRewardsResponse ValidatorOutstandingRewards queries rewards of a validator address. GET /cosmos/distribution/v1beta1/validators/{validator_address}/outstanding_rewards ValidatorCommission QueryValidatorCommissionRequest QueryValidatorCommissionResponse ValidatorCommission queries accumulated commission for a validator. GET /cosmos/distribution/v1beta1/validators/{validator_address}/commission ValidatorSlashes QueryValidatorSlashesRequest QueryValidatorSlashesResponse ValidatorSlashes queries slash events of a validator. GET /cosmos/distribution/v1beta1/validators/{validator_address}/slashes DelegationRewards QueryDelegationRewardsRequest QueryDelegationRewardsResponse DelegationRewards queries the total rewards accrued by a delegation. GET /cosmos/distribution/v1beta1/delegators/{delegator_address}/rewards/{validator_address} DelegationTotalRewards QueryDelegationTotalRewardsRequest QueryDelegationTotalRewardsResponse DelegationTotalRewards queries the total rewards accrued by a each validator. GET /cosmos/distribution/v1beta1/delegators/{delegator_address}/rewards DelegatorValidators QueryDelegatorValidatorsRequest QueryDelegatorValidatorsResponse DelegatorValidators queries the validators of a delegator. GET /cosmos/distribution/v1beta1/delegators/{delegator_address}/validators DelegatorWithdrawAddress QueryDelegatorWithdrawAddressRequest QueryDelegatorWithdrawAddressResponse DelegatorWithdrawAddress queries withdraw address of a delegator. GET /cosmos/distribution/v1beta1/delegators/{delegator_address}/withdraw_address CommunityPool QueryCommunityPoolRequest QueryCommunityPoolResponse CommunityPool queries the community pool coins. GET /cosmos/distribution/v1beta1/community_pool end services

Top

#

cosmos/distribution/v1beta1/tx.proto

#

MsgFundCommunityPool

MsgFundCommunityPool allows an account to directly fund the community pool.

Field Type Label Description amount cosmos.base.v1beta1.Coin repeated depositor string

#

MsgFundCommunityPoolResponse

MsgFundCommunityPoolResponse defines the Msg/FundCommunityPool response type.

#

MsgSetWithdrawAddress

MsgSetWithdrawAddress sets the withdraw address for a delegator (or validator self-delegation).

Field Type Label Description delegator_address string withdraw_address string

#

MsgSetWithdrawAddressResponse

MsgSetWithdrawAddressResponse defines the Msg/SetWithdrawAddress response type.

#

MsgWithdrawDelegatorReward

MsgWithdrawDelegatorReward represents delegation withdrawal to a delegator from a single validator.

Field Type Label Description delegator_address string validator_address string

#

MsgWithdrawDelegatorRewardResponse

MsgWithdrawDelegatorRewardResponse defines the Msg/WithdrawDelegatorReward response type.

#

MsgWithdrawValidatorCommission

MsgWithdrawValidatorCommission withdraws the full commission to the validator address.

Field Type Label Description validator_address string

#

MsgWithdrawValidatorCommissionResponse

MsgWithdrawValidatorCommissionResponse defines the Msg/WithdrawValidatorCommission response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the distribution Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint SetWithdrawAddress MsgSetWithdrawAddress MsgSetWithdrawAddressResponse SetWithdrawAddress defines a method to change the withdraw address for a delegator (or validator self-delegation). WithdrawDelegatorReward MsgWithdrawDelegatorReward MsgWithdrawDelegatorRewardResponse WithdrawDelegatorReward defines a method to withdraw rewards of delegator from a single validator. WithdrawValidatorCommission MsgWithdrawValidatorCommission MsgWithdrawValidatorCommissionResponse WithdrawValidatorCommission defines a method to withdraw the full commission to the validator address. FundCommunityPool MsgFundCommunityPool MsgFundCommunityPoolResponse FundCommunityPool defines a method to allow an account to directly fund the community pool. end services

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#

cosmos/evidence/v1beta1/evidence.proto

#

Equivocation

Equivocation implements the Evidence interface and defines evidence of double signing misbehavior.

Field Type Label Description height int64 time google.protobuf.Timestamp power int64 consensus_address string end messagesend enumsend HasExtensionsend services

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#

cosmos/evidence/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the evidence module's genesis state.

Field Type Label Description evidence google.protobuf.Any repeated evidence defines all the evidence at genesis. end messagesend enumsend HasExtensionsend services

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#

cosmos/evidence/v1beta1/query.proto

#

QueryAllEvidenceRequest

QueryEvidenceRequest is the request type for the Query/AllEvidence RPC method.

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryAllEvidenceResponse

QueryAllEvidenceResponse is the response type for the Query/AllEvidence RPC method.

Field Type Label Description evidence google.protobuf.Any repeated evidence returns all evidences. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryEvidenceRequest

QueryEvidenceRequest is the request type for the Query/Evidence RPC method.

Field Type Label Description evidence_hash bytes

evidence_hash defines the hash of the requested evidence.

#

QueryEvidenceResponse

QueryEvidenceResponse is the response type for the Query/Evidence RPC method.

Field Type Label Description evidence google.protobuf.Any

evidence returns the requested evidence. end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint Evidence QueryEvidenceRequest QueryEvidenceResponse Evidence queries evidence based on evidence hash. GET /cosmos/evidence/v1beta1/evidence/{evidence_hash} AllEvidence QueryAllEvidenceRequest QueryAllEvidenceResponse AllEvidence queries all evidence. GET /cosmos/evidence/v1beta1/evidence end services

Top

#

cosmos/evidence/v1beta1/tx.proto

#

MsgSubmitEvidence

MsgSubmitEvidence represents a message that supports submitting arbitrary Evidence of misbehavior such as equivocation or counterfactual signing.

Field Type Label Description submitter string evidence google.protobuf.Any

#

MsgSubmitEvidenceResponse

MsgSubmitEvidenceResponse defines the Msg/SubmitEvidence response type.

Field Type Label Description hash bytes

hash defines the hash of the evidence. end messagesend enumsend HasExtensions

#

Msg

Msg defines the evidence Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint SubmitEvidence MsgSubmitEvidence MsgSubmitEvidenceResponse SubmitEvidence submits an arbitrary Evidence of misbehavior such as equivocation or counterfactual signing. end services

Top

#

cosmos/genutil/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the raw genesis transaction in JSON.

Field Type Label Description gen_txs bytes repeated gen_txs defines the genesis transactions. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/gov/v1beta1/gov.proto

#

Deposit

Deposit defines an amount deposited by an account address to an active proposal.

Field Type Label Description proposal_id uint64 depositor string amount cosmos.base.v1beta1.Coin repeated

#

DepositParams

DepositParams defines the params for deposits on governance proposals.

Field Type Label Description min_deposit cosmos.base.v1beta1.Coin repeated Minimum deposit for a proposal to enter voting period. max_deposit_period google.protobuf.Duration

Maximum period for Atom holders to deposit on a proposal. Initial value: 2 months.

#

Proposal

Proposal defines the core field members of a governance proposal.

Field Type Label Description proposal_id uint64 content google.protobuf.Any status ProposalStatus final_tally_result TallyResult submit_time google.protobuf.Timestamp deposit_end_time google.protobuf.Timestamp total_deposit cosmos.base.v1beta1.Coin repeated voting_start_time google.protobuf.Timestamp voting_end_time google.protobuf.Timestamp

#

TallyParams

TallyParams defines the params for tallying votes on governance proposals.

Field Type Label Description quorum bytes

Minimum percentage of total stake needed to vote for a result to be considered valid. thresholdbytes

Minimum proportion of Yes votes for proposal to pass. Default value: 0.5. veto_thresholdbytes

Minimum value of Veto votes to Total votes ratio for proposal to be vetoed. Default value: 1/3.

#

TallyResult

TallyResult defines a standard tally for a governance proposal.

Field Type Label Description yes string abstain string no string no_with_veto string

#

TextProposal

TextProposal defines a standard text proposal whose changes need to be manually updated in case of approval.

Field Type Label Description title string description string

#

Vote

Vote defines a vote on a governance proposal. A Vote consists of a proposal ID, the voter, and the vote option.

Field Type Label Description proposal_id uint64 voter string option VoteOption

#

VotingParams

VotingParams defines the params for voting on governance proposals.

Field Type Label Description voting_period google.protobuf.Duration

Length of the voting period. end messages

#

ProposalStatus

ProposalStatus enumerates the valid statuses of a proposal.

Name Number Description PROPOSAL_STATUS_UNSPECIFIED 0 PROPOSAL_STATUS_UNSPECIFIED defines the default propopsal status. PROPOSAL_STATUS_DEPOSIT_PERIOD 1 PROPOSAL_STATUS_DEPOSIT_PERIOD defines a proposal status during the deposit period. PROPOSAL_STATUS_VOTING_PERIOD 2 PROPOSAL_STATUS_VOTING_PERIOD defines a proposal status during the voting period. PROPOSAL_STATUS_PASSED 3 PROPOSAL_STATUS_PASSED defines a proposal status of a proposal that has passed. PROPOSAL_STATUS_REJECTED 4 PROPOSAL_STATUS_REJECTED defines a proposal status of a proposal that has been rejected. PROPOSAL_STATUS_FAILED 5 PROPOSAL_STATUS_FAILED defines a proposal status of a proposal that has failed.

#

VoteOption

VoteOption enumerates the valid vote options for a given governance proposal.

Name Number Description VOTE_OPTION_UNSPECIFIED 0 VOTE_OPTION_UNSPECIFIED defines a no-op vote option. VOTE_OPTION_YES 1 VOTE_OPTION_YES defines a yes vote option. VOTE_OPTION_ABSTAIN 2 VOTE_OPTION_ABSTAIN defines an abstain vote option. VOTE_OPTION_NO 3 VOTE_OPTION_NO defines a no vote option. VOTE_OPTION_NO_WITH_VETO 4 VOTE_OPTION_NO_WITH_VETO defines a no with veto vote option. end enumsend HasExtensionsend services

Top

# #

cosmos/gov/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the gov module's genesis state.

Field Type Label Description starting_proposal_id uint64

starting_proposal_id is the ID of the starting proposal. depositsDeposit repeated deposits defines all the deposits present at genesis. votes Vote repeated votes defines all the votes present at genesis. proposalsProposal repeated proposals defines all the proposals present at genesis. deposit_params DepositParams

params defines all the paramaters of related to deposit. voting_paramsVotingParams

params defines all the paramaters of related to voting. tally_paramsTallyParams

params defines all the paramaters of related to tally. end messagesend enumsend HasExtensionsend services

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# #

cosmos/gov/v1beta1/query.proto

#

QueryDepositRequest

QueryDepositRequest is the request type for the Query/Deposit RPC method.

Field Type Label Description proposal_id uint64

proposal_id defines the unique id of the proposal. depositorstring

depositor defines the deposit addresses from the proposals.

#

QueryDepositResponse

QueryDepositResponse is the response type for the Query/Deposit RPC method.

Field Type Label Description deposit Deposit

deposit defines the requested deposit.

#

QueryDepositsRequest

QueryDepositsRequest is the request type for the Query/Deposits RPC method.

Field Type Label Description proposal_id uint64

proposal_id defines the unique id of the proposal. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDepositsResponse

QueryDepositsResponse is the response type for the Query/Deposits RPC method.

Field Type Label Description deposits Deposit repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryParamsRequest

QueryParamsRequest is the request type for the Query/Params RPC method.

Field Type Label Description params_type string

params_type defines which parameters to query for, can be one of "voting", "tallying" or "deposit".

#

QueryParamsResponse

QueryParamsResponse is the response type for the Query/Params RPC method.

Field Type Label Description voting_params VotingParams

voting_params defines the parameters related to voting. deposit_paramsDepositParams

deposit_params defines the parameters related to deposit. tally_paramsTallyParams

tally_params defines the parameters related to tally.

#

QueryProposalRequest

QueryProposalRequest is the request type for the Query/Proposal RPC method.

Field Type Label Description proposal_id uint64

proposal_id defines the unique id of the proposal.

#

QueryProposalResponse

QueryProposalResponse is the response type for the Query/Proposal RPC method.

Field Type Label Description proposal Proposal

#

QueryProposalsRequest

QueryProposalsRequest is the request type for the Query/Proposals RPC method.

Field Type Label Description proposal_status ProposalStatus

proposal_status defines the status of the proposals. voter string

voter defines the voter address for the proposals. depositor string

depositor defines the deposit addresses from the proposals. pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryProposalsResponse

QueryProposalsResponse is the response type for the Query/Proposals RPC method.

Field Type Label Description proposals Proposal repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryTallyResultRequest

QueryTallyResultRequest is the request type for the Query/Tally RPC method.

Field Type Label Description proposal_id uint64

proposal_id defines the unique id of the proposal.

#

QueryTallyResultResponse

QueryTallyResultResponse is the response type for the Query/Tally RPC method.

Field Type Label Description tally TallyResult

tally defines the requested tally.

#

QueryVoteRequest

QueryVoteRequest is the request type for the Query/Vote RPC method.

Field Type Label Description proposal_id uint64

proposal_id defines the unique id of the proposal. voter string

voter defines the oter address for the proposals.

#

QueryVoteResponse

QueryVoteResponse is the response type for the Query/Vote RPC method.

Field Type Label Description vote Vote

vote defined the queried vote.

#

QueryVotesRequest

QueryVotesRequest is the request type for the Query/Votes RPC method.

Field Type Label Description proposal_id uint64

proposal_id defines the unique id of the proposal. pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryVotesResponse

QueryVotesResponse is the response type for the Query/Votes RPC method.

Field Type Label Description votes Vote repeated votes defined the queried votes. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response. end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service for gov module

Method Name Request Type Response Type Description HTTP Verb Endpoint Proposal QueryProposalRequest QueryProposalResponse Proposal queries proposal details based on ProposalID. GET /cosmos/gov/v1beta1/proposals/{proposal_id} Proposals QueryProposalsRequest QueryProposalsResponse Proposals queries all proposals based on given status. GET /cosmos/gov/v1beta1/proposals Vote QueryVoteRequest QueryVoteResponse Vote queries voted information based on proposalID, voterAddr. GET /cosmos/gov/v1beta1/proposals/{proposal_id}/votes/{voter} Votes QueryVotesRequest QueryVotesResponse Votes queries votes of a given proposal. GET /cosmos/gov/v1beta1/proposals/{proposal_id}/votes Params QueryParamsRequest QueryParamsResponse Params queries all parameters of the gov module. GET /cosmos/gov/v1beta1/params/{params_type} Deposit QueryDepositRequest QueryDepositResponse Deposit queries single deposit information based proposalID, depositAddr. GET /cosmos/gov/v1beta1/proposals/{proposal_id}/deposits/{depositor} Deposits QueryDepositsRequest QueryDepositsResponse Deposits queries all deposits of a single proposal. GET /cosmos/gov/v1beta1/proposals/{proposal_id}/deposits TallyResult QueryTallyResultRequest QueryTallyResultResponse TallyResult queries the tally of a proposal vote. GET /cosmos/gov/v1beta1/proposals/{proposal_id}/tally end services

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#

cosmos/gov/v1beta1/tx.proto

#

MsgDeposit

MsgDeposit defines a message to submit a deposit to an existing proposal.

Field Type Label Description proposal_id uint64 depositor string amount cosmos.base.v1beta1.Coin repeated

#

MsgDepositResponse

MsgDepositResponse defines the Msg/Deposit response type.

#

MsgSubmitProposal

MsgSubmitProposal defines an sdk.Msg type that supports submitting arbitrary proposal Content.

Field Type Label Description content google.protobuf.Any initial_deposit cosmos.base.v1beta1.Coin repeated proposer string

#

MsgSubmitProposalResponse

MsgSubmitProposalResponse defines the Msg/SubmitProposal response type.

Field Type Label Description proposal_id uint64

#

MsgVote

MsgVote defines a message to cast a vote.

Field Type Label Description proposal_id uint64 voter string option VoteOption

#

MsgVoteResponse

MsgVoteResponse defines the Msg/Vote response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the bank Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint SubmitProposal MsgSubmitProposal MsgSubmitProposalResponse SubmitProposal defines a method to create new proposal given a content. Vote MsgVote MsgVoteResponse Vote defines a method to add a vote on a specific proposal. Deposit MsgDeposit MsgDepositResponse Deposit defines a method to add deposit on a specific proposal. end services

Top

#

cosmos/params/v1beta1/params.proto

#

ParamChange

ParamChange defines an individual parameter change, for use in ParameterChangeProposal.

Field Type Label Description subspace string key string value string

#

ParameterChangeProposal

ParameterChangeProposal defines a proposal to change one or more parameters.

Field Type Label Description title string description string changes ParamChange repeated end messagesend enumsend HasExtensionsend services

Top

#

cosmos/params/v1beta1/query.proto

#

QueryParamsRequest

QueryParamsRequest is request type for the Query/Params RPC method.

Field Type Label Description subspace string

subspace defines the module to query the parameter for. keystring

key defines the key of the parameter in the subspace.

#

QueryParamsResponse

QueryParamsResponse is response type for the Query/Params RPC method.

Field Type Label Description param ParamChange

param defines the queried parameter. end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint Params QueryParamsRequest QueryParamsResponse Params queries a specific parameter of a module, given its subspace and key. GET /cosmos/params/v1beta1/params end services

Top

#

cosmos/slashing/v1beta1/slashing.proto

#

Params

Params represents the parameters used for by the slashing module.

Field Type Label Description signed_blocks_window int64 min_signed_per_window bytes downtime_jail_duration google.protobuf.Duration slash_fraction_double_sign bytes slash_fraction_downtime bytes

#

ValidatorSigningInfo

ValidatorSigningInfo defines a validator's signing info for monitoring their liveness activity.

Field Type Label Description address string start_height int64

height at which validator was first a candidate OR was unjailed index_offset int64

index offset into signed block bit array jailed_until google.protobuf.Timestamp

timestamp validator cannot be unjailed until tombstoned bool

whether or not a validator has been tombstoned (killed out of validator set) missed_blocks_counter int64

missed blocks counter (to avoid scanning the array every time) end messagesend enumsend HasExtensionsend services

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#

cosmos/slashing/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the slashing module's genesis state.

Field Type Label Description params Params

params defines all the paramaters of related to deposit. signing_infos SigningInfo repeated signing_infos represents a map between validator addresses and their signing infos. missed_blocks ValidatorMissedBlocks repeated signing_infos represents a map between validator addresses and their missed blocks.

#

MissedBlock

MissedBlock contains height and missed status as boolean.

Field Type Label Description index int64

index is the height at which the block was missed. missed bool

missed is the missed status.

#

SigningInfo

SigningInfo stores validator signing info of corresponding address.

Field Type Label Description address string

address is the validator address. validator_signing_info ValidatorSigningInfo

validator_signing_info represents the signing info of this validator.

#

ValidatorMissedBlocks

ValidatorMissedBlocks contains array of missed blocks of corresponding address.

Field Type Label Description address string

address is the validator address. missed_blocks MissedBlock repeated missed_blocks is an array of missed blocks by the validator. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/slashing/v1beta1/query.proto

#

QueryParamsRequest

QueryParamsRequest is the request type for the Query/Params RPC method

#

QueryParamsResponse

QueryParamsResponse is the response type for the Query/Params RPC method

Field Type Label Description params Params

#

QuerySigningInfoRequest

QuerySigningInfoRequest is the request type for the Query/SigningInfo RPC method

Field Type Label Description cons_address string

cons_address is the address to query signing info of

#

QuerySigningInfoResponse

QuerySigningInfoResponse is the response type for the Query/SigningInfo RPC method

Field Type Label Description val_signing_info ValidatorSigningInfo

val_signing_info is the signing info of requested val cons address

#

QuerySigningInfosRequest

QuerySigningInfosRequest is the request type for the Query/SigningInfos RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

#

QuerySigningInfosResponse

QuerySigningInfosResponse is the response type for the Query/SigningInfos RPC method

Field Type Label Description info ValidatorSigningInfo repeated info is the signing info of all validators pagination cosmos.base.query.v1beta1.PageResponse end messagesend enumsend HasExtensions

#

Query

Query provides defines the gRPC querier service

Method Name Request Type Response Type Description HTTP Verb Endpoint Params QueryParamsRequest QueryParamsResponse Params queries the parameters of slashing module GET /cosmos/slashing/v1beta1/params SigningInfo QuerySigningInfoRequest QuerySigningInfoResponse SigningInfo queries the signing info of given cons address GET /cosmos/slashing/v1beta1/signing_infos/{cons_address} SigningInfos QuerySigningInfosRequest QuerySigningInfosResponse SigningInfos queries signing info of all validators GET /cosmos/slashing/v1beta1/signing_infos end services

Top

#

cosmos/slashing/v1beta1/tx.proto

#

MsgUnjail

MsgUnjail defines the Msg/Unjail request type

Field Type Label Description validator_addr string

#

MsgUnjailResponse

MsgUnjailResponse defines the Msg/Unjail response type

end messagesend enumsend HasExtensions

#

Msg

Msg defines the slashing Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint UnjailMsgUnjail MsgUnjailResponse Unjail defines a method for unjailing a jailed validator, thus returning them into the bonded validator set, so they can begin receiving provisions and rewards again. end services

Top

#

cosmos/staking/v1beta1/staking.proto

#

Commission

Commission defines commission parameters for a given validator.

Field Type Label Description commission_rates CommissionRates

commission_rates defines the initial commission rates to be used for creating a validator. update_timegoogle.protobuf.Timestamp

update_time is the last time the commission rate was changed.

#

CommissionRates

CommissionRates defines the initial commission rates to be used for creating a validator.

Field Type Label Description rate string

rate is the commission rate charged to delegators, as a fraction. max_ratestring

max_rate defines the maximum commission rate which validator can ever charge, as a fraction. max_change_ratestring

max_change_rate defines the maximum daily increase of the validator commission, as a fraction.

#

DVPair

DVPair is struct that just has a delegator-validator pair with no other data. It is intended to be used as a marshalable pointer. For example, a DVPair can be used to construct the key to getting an UnbondingDelegation from state.

Field Type Label Description delegator_address string validator_address string

#

DVPairs

DVPairs defines an array of DVPair objects.

Field Type Label Description pairs DVPair repeated

#

DVVTriplet

DVVTriplet is struct that just has a delegator-validator-validator triplet with no other data. It is intended to be used as a marshalable pointer. For example, a DVVTriplet can be used to construct the key to getting a Redelegation from state.

Field Type Label Description delegator_address string validator_src_address string validator_dst_address string

#

DVVTriplets

DVVTriplets defines an array of DVVTriplet objects.

Field Type Label Description triplets DVVTriplet repeated

#

Delegation

Delegation represents the bond with tokens held by an account. It is owned by one delegator, and is associated with the voting power of one validator.

Field Type Label Description delegator_address string

delegator_address is the bech32-encoded address of the delegator. validator_addressstring

validator_address is the bech32-encoded address of the validator. sharesstring

shares define the delegation shares received.

#

DelegationResponse

DelegationResponse is equivalent to Delegation except that it contains a balance in addition to shares which is more suitable for client responses.

Field Type Label Description delegation Delegation balance cosmos.base.v1beta1.Coin

#

Description

Description defines a validator description.

Field Type Label Description moniker string

moniker defines a human-readable name for the validator. identity string

identity defines an optional identity signature (ex. UPort or Keybase). website string

website defines an optional website link. security_contact string

security_contact defines an optional email for security contact. details string

details define other optional details.

#

HistoricalInfo

HistoricalInfo contains header and validator information for a given block. It is stored as part of staking module's state, which persists then most recent HistoricalInfo (n is set by the staking module'shistorical_entries parameter).

Field Type Label Description header tendermint.types.Header valset Validator repeated

#

Params

Params defines the parameters for the staking module.

Field Type Label Description unbonding_time google.protobuf.Duration

unbonding_time is the time duration of unbonding. max_validators uint32

max_validators is the maximum number of validators. max_entries uint32

max_entries is the max entries for either unbonding delegation or redelegation (per pair/trio). historical_entries uint32

historical_entries is the number of historical entries to persist. bond_denomstring

bond_denom defines the bondable coin denomination.

#

Pool

Pool is used for tracking bonded and not-bonded token supply of the bond denomination.

Field Type Label Description not_bonded_tokens string bonded_tokens string

#

Redelegation

Redelegation contains the list of a particular delegator's redelegating bonds from a particular source validator to a particular destination validator.

Field Type Label Description delegator_address string

delegator_address is the bech32-encoded address of the delegator. validator_src_addressstring

validator_src_address is the validator redelegation source operator address. validator_dst_addressstring

validator_dst_address is the validator redelegation destination operator address. entriesRedelegationEntry repeated entries are the redelegation entries. redelegation entries |

#

RedelegationEntry

RedelegationEntry defines a redelegation object with relevant metadata.

Field Type Label Description creation_height int64

creation_height defines the height which the redelegation took place. completion_timegoogle.protobuf.Timestamp

completion_time defines the unix time for redelegation completion. initial_balancestring

initial_balance defines the initial balance when redelegation started. shares_dststring

shares_dst is the amount of destination-validator shares created by redelegation.

#

RedelegationEntryResponse

RedelegationEntryResponse is equivalent to a RedelegationEntry except that it contains a balance in addition to shares which is more suitable for client responses.

Field Type Label Description redelegation_entry RedelegationEntry balance string

#

RedelegationResponse

RedelegationResponse is equivalent to a Redelegation except that its entries contain a balance in addition to shares which is more suitable for client responses.

Field Type Label Description redelegation Redelegation entries RedelegationEntryResponse repeated

#

UnbondingDelegation

UnbondingDelegation stores all of a single delegator's unbonding bonds for a single validator in an time-ordered list.

Field Type Label Description delegator_address string

delegator_address is the bech32-encoded address of the delegator. validator_addressstring

validator_address is the bech32-encoded address of the validator. entriesUnbondingDelegationEntry repeated entries are the unbonding delegation entries. unbonding delegation entries |

#

UnbondingDelegationEntry

UnbondingDelegationEntry defines an unbonding object with relevant metadata.

Field Type Label Description creation_height int64

creation_height is the height which the unbonding took place. completion_timegoogle.protobuf.Timestamp

completion_time is the unix time for unbonding completion. initial_balancestring

initial_balance defines the tokens initially scheduled to receive at completion. balancestring

balance defines the tokens to receive at completion.

#

ValAddresses

ValAddresses defines a repeated set of validator addresses.

Field Type Label Description addresses string repeated

#

Validator

Validator defines a validator, together with the total amount of the Validator's bond shares and their exchange rate to coins. Slashing results in a decrease in the exchange rate, allowing correct calculation of future undelegations without iterating over delegators. When coins are delegated to this validator, the validator is credited with a delegation whose number of bond shares is based on the amount of coins delegated divided by the current exchange rate. Voting power can be calculated as total bonded shares multiplied by exchange rate.

Field Type Label Description operator_address string

operator_address defines the address of the validator's operator; bech encoded in JSON. consensus_pubkeygoogle.protobuf.Any

consensus_pubkey is the consensus public key of the validator, as a Protobuf Any. jailedbool

jailed defined whether the validator has been jailed from bonded status or not. statusBondStatus

status is the validator status (bonded/unbonding/unbonded). tokens string

tokens define the delegated tokens (incl. self-delegation). delegator_shares string

delegator_shares defines total shares issued to a validator's delegators. descriptionDescription

description defines the description terms for the validator. unbonding_heightint64

unbonding_height defines, if unbonding, the height at which this validator has begun unbonding. unbonding_time google.protobuf.Timestamp

unbonding_time defines, if unbonding, the min time for the validator to complete unbonding. commissionCommission

commission defines the commission parameters. min_self_delegation string

min_self_delegation is the validator's self declared minimum self delegation. end messages

#

BondStatus

BondStatus is the status of a validator.

Name Number Description BOND_STATUS_UNSPECIFIED 0 UNSPECIFIED defines an invalid validator status. BOND_STATUS_UNBONDED 1 UNBONDED defines a validator that is not bonded. BOND_STATUS_UNBONDING 2 UNBONDING defines a validator that is unbonding. BOND_STATUS_BONDED 3 BONDED defines a validator that is bonded. end enumsend HasExtensionsend services

Top

# #

cosmos/staking/v1beta1/genesis.proto

#

GenesisState

GenesisState defines the staking module's genesis state.

Field Type Label Description params Params

params defines all the paramaters of related to deposit. last_total_powerbytes

last_total_power tracks the total amounts of bonded tokens recorded during the previous end block. last_validator_powers LastValidatorPower repeated last_validator_powers is a special index that provides a historical list of the last-block's bonded validators. validators Validator repeated delegations defines the validator set at genesis. delegationsDelegation repeated delegations defines the delegations active at genesis. unbonding_delegations UnbondingDelegation repeated unbonding_delegations defines the unbonding delegations active at genesis. redelegations Redelegation repeated redelegations defines the redelegations active at genesis. exported bool

#

LastValidatorPower

LastValidatorPower required for validator set update logic.

Field Type Label Description address string

address is the address of the validator. powerint64

power defines the power of the validator. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/staking/v1beta1/query.proto

#

QueryDelegationRequest

QueryDelegationRequest is request type for the Query/Delegation RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. validator_addrstring

validator_addr defines the validator address to query for.

#

QueryDelegationResponse

QueryDelegationResponse is response type for the Query/Delegation RPC method.

Field Type Label Description delegation_response DelegationResponse

delegation_responses defines the delegation info of a delegation.

#

QueryDelegatorDelegationsRequest

QueryDelegatorDelegationsRequest is request type for the Query/DelegatorDelegations RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDelegatorDelegationsResponse

QueryDelegatorDelegationsResponse is response type for the Query/DelegatorDelegations RPC method.

Field Type Label Description delegation_responses DelegationResponse repeated delegation_responses defines all the delegations' info of a delegator. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryDelegatorUnbondingDelegationsRequest

QueryDelegatorUnbondingDelegationsRequest is request type for the Query/DelegatorUnbondingDelegations RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDelegatorUnbondingDelegationsResponse

QueryUnbondingDelegatorDelegationsResponse is response type for the Query/UnbondingDelegatorDelegations RPC method.

Field Type Label Description unbonding_responses UnbondingDelegation repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryDelegatorValidatorRequest

QueryDelegatorValidatorRequest is request type for the Query/DelegatorValidator RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. validator_addr string

validator_addr defines the validator address to query for.

#

QueryDelegatorValidatorResponse

QueryDelegatorValidatorResponse response type for the Query/DelegatorValidator RPC method.

Field Type Label Description validator Validator

validator defines the the validator info.

#

QueryDelegatorValidatorsRequest

QueryDelegatorValidatorsRequest is request type for the Query/DelegatorValidators RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDelegatorValidatorsResponse

QueryDelegatorValidatorsResponse is response type for the Query/DelegatorValidators RPC method.

Field Type Label Description validators Validator repeated validators defines the the validators' info of a delegator. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryHistoricalInfoRequest

QueryHistoricalInfoRequest is request type for the Query/HistoricalInfo RPC method.

Field Type Label Description height int64

height defines at which height to query the historical info.

#

QueryHistoricalInfoResponse

QueryHistoricalInfoResponse is response type for the Query/HistoricalInfo RPC method.

Field Type Label Description hist HistoricalInfo

hist defines the historical info at the given height.

#

QueryParamsRequest

QueryParamsRequest is request type for the Query/Params RPC method.

#

QueryParamsResponse

QueryParamsResponse is response type for the Query/Params RPC method.

Field Type Label Description params Params

params holds all the parameters of this module.

#

QueryPoolRequest

QueryPoolRequest is request type for the Query/Pool RPC method.

#

QueryPoolResponse

QueryPoolResponse is response type for the Query/Pool RPC method.

Field Type Label Description pool Pool

pool defines the pool info.

#

QueryRedelegationsRequest

QueryRedelegationsRequest is request type for the Query/Redelegations RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. src_validator_addrstring

src_validator_addr defines the validator address to redelegate from. dst_validator_addrstring

dst_validator_addr defines the validator address to redelegate to. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryRedelegationsResponse

QueryRedelegationsResponse is response type for the Query/Redelegations RPC method.

Field Type Label Description redelegation_responses RedelegationResponse repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryUnbondingDelegationRequest

QueryUnbondingDelegationRequest is request type for the Query/UnbondingDelegation RPC method.

Field Type Label Description delegator_addr string

delegator_addr defines the delegator address to query for. validator_addrstring

validator_addr defines the validator address to query for.

#

QueryUnbondingDelegationResponse

QueryDelegationResponse is response type for the Query/UnbondingDelegation RPC method.

Field Type Label Description unbond UnbondingDelegation

unbond defines the unbonding information of a delegation.

#

QueryValidatorDelegationsRequest

QueryValidatorDelegationsRequest is request type for the Query/ValidatorDelegations RPC method

Field Type Label Description validator_addr string

validator_addr defines the validator address to query for. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryValidatorDelegationsResponse

QueryValidatorDelegationsResponse is response type for the Query/ValidatorDelegations RPC method

Field Type Label Description delegation_responses DelegationResponse repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryValidatorRequest

QueryValidatorRequest is response type for the Query/Validator RPC method

Field Type Label Description validator_addr string

validator_addr defines the validator address to query for.

#

QueryValidatorResponse

QueryValidatorResponse is response type for the Query/Validator RPC method

Field Type Label Description validator Validator

validator defines the the validator info.

#

QueryValidatorUnbondingDelegationsRequest

QueryValidatorUnbondingDelegationsRequest is required type for the Query/ValidatorUnbondingDelegations RPC method

Field Type Label Description validator_addr string

validator_addr defines the validator address to query for. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryValidatorUnbondingDelegationsResponse

QueryValidatorUnbondingDelegationsResponse is response type for the Query/ValidatorUnbondingDelegations RPC method.

Field Type Label Description unbonding_responses UnbondingDelegation repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryValidatorsRequest

QueryValidatorsRequest is request type for Query/Validators RPC method.

Field Type Label Description status string

status enables to query for validators matching a given status. paginationcosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryValidatorsResponse

QueryValidatorsResponse is response type for the Query/Validators RPC method

Field Type Label Description validators Validator repeated validators contains all the queried validators. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response. end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint ValidatorsQueryValidatorsRequest QueryValidatorsResponse Validators queries all validators that match the given status. GET /cosmos/staking/v1beta1/validators Validator

QueryValidatorRequest QueryValidatorResponse Validator queries validator info for given validator address. GET /cosmos/staking/v1beta1/validators/{validator_addr} ValidatorDelegations QueryValidatorDelegationsRequest QueryValidatorDelegationsResponse ValidatorDelegations queries delegate info for given validator. GET /cosmos/staking/v1beta1/validators/{validator_addr}/delegations ValidatorUnbondingDelegations QueryValidatorUnbondingDelegationsRequest QueryValidatorUnbondingDelegationsResponse ValidatorUnbondingDelegations queries unbonding delegations of a validator. GET /cosmos/staking/v1beta1/validators/{validator_addr}/unbonding_delegations Delegation QueryDelegationRequest QueryDelegationResponse Delegation queries delegate info for given validator delegator pair. GET /cosmos/staking/v1beta1/validators/{validator_addr}/delegations/{delegator_addr} UnbondingDelegation QueryUnbondingDelegationRequest QueryUnbondingDelegationResponse UnbondingDelegation queries unbonding info for given validator delegator pair. GET /cosmos/staking/v1beta1/validators/{validator_addr}/delegations/{delegator_addr}/unbonding_delegation DelegatorDelegations QueryDelegatorDelegationsRequest QueryDelegatorDelegationsResponse DelegatorDelegations queries all delegations of a given delegator address. GET /cosmos/staking/v1beta1/delegations/{delegator_addr} DelegatorUnbondingDelegations QueryDelegatorUnbondingDelegationsRequest QueryDelegatorUnbondingDelegationsResponse DelegatorUnbondingDelegations queries all unbonding delegations of a given delegator address. GET /cosmos/staking/v1beta1/delegators/{delegator_addr}/unbonding_delegations Redelegations QueryRedelegationsRequest QueryRedelegationsResponse Redelegations queries redelegations of given address. GET /cosmos/staking/v1beta1/delegators/{delegator_addr}/redelegations DelegatorValidators QueryDelegatorValidatorsRequest QueryDelegatorValidatorsResponse DelegatorValidators queries all validators info for given delegator address. GET /cosmos/staking/v1beta1/delegators/{delegator_addr}/validators DelegatorValidator QueryDelegatorValidatorRequest QueryDelegatorValidatorResponse DelegatorValidator queries validator info for given delegator validator pair. GET /cosmos/staking/v1beta1/delegators/{delegator_addr}/validators/{validator_addr} HistoricalInfo QueryHistoricalInfoRequest QueryHistoricalInfoResponse HistoricalInfo queries the historical info for given height. GET /cosmos/staking/v1beta1/historical_info/{height} Pool QueryPoolRequest QueryPoolResponse Pool queries the pool info. GET /cosmos/staking/v1beta1/pool Params QueryParamsRequest QueryParamsResponse Parameters queries the staking parameters. GET /cosmos/staking/v1beta1/params end services

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#

cosmos/staking/v1beta1/tx.proto

#

MsgBeginRedelegate

MsgBeginRedelegate defines a SDK message for performing a redelegation of coins from a delegator and source validator to a destination validator.

Field Type Label Description delegator_address string validator_src_address string validator_dst_address string amount cosmos.base.v1beta1.Coin

#

MsgBeginRedelegateResponse

MsgBeginRedelegateResponse defines the Msg/BeginRedelegate response type.

Field Type Label Description completion_time google.protobuf.Timestamp

#

MsgCreateValidator

MsgCreateValidator defines a SDK message for creating a new validator.

Field Type Label Description description Description commission CommissionRates min_self_delegation string delegator_address string validator_address string pubkey google.protobuf.Any value cosmos.base.v1beta1.Coin

#

MsgCreateValidatorResponse

MsgCreateValidatorResponse defines the Msg/CreateValidator response type.

#

MsgDelegate

MsgDelegate defines a SDK message for performing a delegation of coins from a delegator to a validator.

Field Type Label Description delegator_address string validator_address string amount cosmos.base.v1beta1.Coin

#

MsgDelegateResponse

MsgDelegateResponse defines the Msg/Delegate response type.

#

MsgEditValidator

MsgEditValidator defines a SDK message for editing an existing validator.

Field Type Label Description description Description validator_address string commission_rate string

We pass a reference to the new commission rate and min self delegation as it's not mandatory to update. If not updated, the deserialized rate will be zero with no way to distinguish if an update was intended. REF: #2373 min_self_delegation string

#

MsgEditValidatorResponse

MsgEditValidatorResponse defines the Msg/EditValidator response type.

#

MsgUndelegate

MsgUndelegate defines a SDK message for performing an undelegation from a delegate and a validator.

Field Type Label Description delegator_address string validator_address string amount cosmos.base.v1beta1.Coin

#

MsgUndelegateResponse

MsgUndelegateResponse defines the Msg/Undelegate response type.

Field Type Label Description completion_time google.protobuf.Timestamp end messagesend enumsend HasExtensions

#

Msg

Msg defines the staking Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint CreateValidator MsgCreateValidator MsgCreateValidatorResponse CreateValidator defines a method for creating a new validator. EditValidator MsgEditValidator MsgEditValidatorResponse EditValidator defines a method for editing an existing validator. Delegate MsgDelegate MsgDelegateResponse Delegate defines a method for performing a delegation of coins from a delegator to a validator. BeginRedelegate MsgBeginRedelegate MsgBeginRedelegateResponse BeginRedelegate defines a method for performing a redelegation of coins from a delegator and source validator to a destination validator. Undelegate MsgUndelegate MsgUndelegateResponse Undelegate defines a method for performing an undelegation from a delegate and a validator. end services

Top

# #

cosmos/tx/signing/v1beta1/signing.proto

#

SignatureDescriptor

SignatureDescriptor is a convenience type which represents the full data for a signature including the public key of the signer, signing modes and the signature itself. It is primarily used for coordinating signatures between clients.

Field Type Label Description public_key google.protobuf.Any

public_key is the public key of the signer data SignatureDescriptor.Data sequence uint64

sequence is the sequence of the account, which describes the number of committed transactions signed by a given address. It is used to prevent replay attacks.

#

SignatureDescriptor.Data

Data represents signature data

Field Type Label Description single SignatureDescriptor.Data.Single

single represents a single signer multi SignatureDescriptor.Data.Multi

multi represents a multisig signer

#

SignatureDescriptor.Data.Multi

Multi is the signature data for a multisig public key

Field Type Label Description bitarray cosmos.crypto.multisig.v1beta1.CompactBitArray

bitarray specifies which keys within the multisig are signing signaturesSignatureDescriptor.Data repeated signatures is the signatures of the multi-signature

#

SignatureDescriptor.Data.Single

Single is the signature data for a single signer

Field Type Label Description mode SignMode

mode is the signing mode of the single signer signaturebytes

signature is the raw signature bytes

#

SignatureDescriptors

SignatureDescriptors wraps multiple SignatureDescriptor's.

Field Type Label Description signatures SignatureDescriptor repeated signatures are the signature descriptors end messages

#

SignMode

SignMode represents a signing mode with its own security guarantees.

Name Number Description SIGN_MODE_UNSPECIFIED 0 SIGN_MODE_UNSPECIFIED specifies an unknown signing mode and will be rejected SIGN_MODE_DIRECT 1 SIGN_MODE_DIRECT specifies a signing mode which uses SignDoc and is verified with raw bytes from Tx SIGN_MODE_TEXTUAL 2 SIGN_MODE_TEXTUAL is a future signing mode that will verify some human-readable textual representation on top of the binary representation from SIGN_MODE_DIRECT SIGN_MODE_LEGACY_AMINO_JSON 127 SIGN_MODE_LEGACY_AMINO_JSON is a backwards compatibility mode which uses Amino JSON and will be removed in the future end enumsend HasExtensionsend services

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# #

cosmos/tx/v1beta1/tx.proto

#

AuthInfo

AuthInfo describes the fee and signer modes that are used to sign a transaction.

Field Type Label Description signer_infos SignerInfo repeated signer_infos defines the signing modes for the required signers. The number and order of elements must match the required signers from TxBody's messages. The first element is the primary signer and the one which pays the fee. fee Fee

Fee is the fee and gas limit for the transaction. The first signer is the primary signer and the one which pays the fee. The fee can be calculated based on the cost of evaluating the body and doing signature verification of the signers. This can be estimated via simulation.

#

Fee

Fee includes the amount of coins paid in fees and the maximum gas to be used by the transaction. The ratio yields an effective "gasprice", which must be above some miminum to be accepted into the mempool.

Field Type Label Description amount cosmos.base.v1beta1.Coin repeated amount is the amount of coins to be paid as a fee gas_limit uint64

gas_limit is the maximum gas that can be used in transaction processing before an out of gas error occurs payerstring

if unset, the first signer is responsible for paying the fees. If set, the specified account must pay the fees. the payer must be a tx signer (and thus have signed this field in AuthInfo). setting this field doesnot change the ordering of required signers for the transaction. granter string

if set, the fee payer (either the first signer or the value of the payer field) requests that a fee grant be used to pay fees instead of the fee

payer's own balance. If an appropriate fee grant does not exist or the chain does not support fee grants, this will fail

#

ModeInfo

ModeInfo describes the signing mode of a single or nested multisig signer.

Field Type Label Description single ModeInfo.Single

single represents a single signer multi ModeInfo.Multi

multi represents a nested multisig signer

#

ModeInfo.Multi

Multi is the mode info for a multisig public key

Field Type Label Description bitarray cosmos.crypto.multisig.v1beta1.CompactBitArray

bitarray specifies which keys within the multisig are signing mode_infosModeInfo repeated mode_infos is the corresponding modes of the signers of the multisig which could include nested multisig public keys

#

ModeInfo.Single

Single is the mode info for a single signer. It is structured as a message to allow for additional fields such as locale for SIGN_MODE_TEXTUAL in the future

Field Type Label Description mode cosmos.tx.signing.v1beta1.SignMode

mode is the signing mode of the single signer

#

SignDoc

SignDoc is the type used for generating sign bytes for SIGN_MODE_DIRECT.

Field Type Label Description body_bytes bytes

body_bytes is protobuf serialization of a TxBody that matches the representation in TxRaw. auth_info_bytesbytes

auth_info_bytes is a protobuf serialization of an AuthInfo that matches the representation in TxRaw. chain_idstring

chain_id is the unique identifier of the chain this transaction targets. It prevents signed transactions from being used on another chain by an attacker account_number uint64

account_number is the account number of the account in state

#

SignerInfo

SignerInfo describes the public key and signing mode of a single top-level signer.

Field Type Label Description public_key google.protobuf.Any

public_key is the public key of the signer. It is optional for accounts that already exist in state. If unset, the verifier can use the required \ signer address for this position and lookup the public key. mode_info ModeInfo

mode_info describes the signing mode of the signer and is a nested structure to support nested multisig pubkey's sequenceuint64

sequence is the sequence of the account, which describes the number of committed transactions signed by a given address. It is used to prevent replay attacks.

#

Tx

Tx is the standard type used for broadcasting transactions.

Field Type Label Description body TxBody

body is the processable content of the transaction auth_infoAuthInfo

auth_info is the authorization related content of the transaction, specifically signers, signer modes and fee signaturesbytes repeated

signatures is a list of signatures that matches the length and order of AuthInfo's signer_infos to allow connecting signature meta information like public key and signing mode by position.

#

TxBody

TxBody is the body of a transaction that all signers sign over.

Field Type Label Description messages google.protobuf.Any repeated messages is a list of messages to be executed. The required signers of those messages define the number and order of elements in AuthInfo's signer_infos and Tx's signatures. Each required signer address is added to the list only the first time it occurs. By convention, the first required signer (usually from the first message) is referred to as the primary signer and pays the fee for the whole transaction. memo string

memo is any arbitrary memo to be added to the transaction timeout_heightuint64

timeout is the block height after which this transaction will not be processed by the chain extension_optionsgoogle.protobuf.Any repeated extension_options are arbitrary options that can be added by chains when the default options are not sufficient. If any of these are present and can't be handled, the transaction will be rejected non_critical_extension_options google.protobuf.Any repeated extension_options are arbitrary options that can be added by chains when the default options are not sufficient. If any of these are present and can't be handled, they will be ignored

#

TxRaw

TxRaw is a variant of Tx that pins the signer's exact binary representation of body and auth_info. This is used for signing, broadcasting and verification. The binaryserialize(tx: TxRaw) is stored in Tendermint and the hashsha256(serialize(tx: TxRaw)) becomes the "txhash", commonly used as the transaction ID.

Field Type Label Description body_bytes bytes

body_bytes is a protobuf serialization of a TxBody that matches the representation in SignDoc. auth_info_bytesbytes

auth_info_bytes is a protobuf serialization of an AuthInfo that matches the representation in SignDoc. signaturesbytes repeated signatures is a list of signatures that matches the length and order of AuthInfo's signer_infos to allow connecting signature meta information like public key and signing mode by position. end messagesend enumsend HasExtensionsend services

Top

#

cosmos/tx/v1beta1/service.proto

#

BroadcastTxRequest

BroadcastTxRequest is the request type for the Service.BroadcastTxRequest RPC method.

Field Type Label Description tx_bytes bytes

tx_bytes is the raw transaction. mode BroadcastMode

#

BroadcastTxResponse

BroadcastTxResponse is the response type for the Service.BroadcastTx method.

Field Type Label Description tx_response cosmos.base.abci.v1beta1.TxResponse

tx_response is the queried TxResponses.

#

GetTxRequest

GetTxRequest is the request type for the Service.GetTx RPC method.

Field Type Label Description hash string

hash is the tx hash to query, encoded as a hex string.

#

GetTxResponse

GetTxResponse is the response type for the Service.GetTx method.

Field Type Label Description tx Tx

tx is the queried transaction. tx_response cosmos.base.abci.v1beta1.TxResponse

tx_response is the queried TxResponses.

#

GetTxsEventRequest

GetTxsEventRequest is the request type for the Service.TxsByEvents RPC method.

Field Type Label Description events string repeated events is the list of transaction event type. pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an pagination for the request. order_by OrderBy

#

GetTxsEventResponse

GetTxsEventResponse is the response type for the Service.TxsByEvents RPC method.

Field Type Label Description txs Tx repeated txs is the list of queried transactions. tx_responses cosmos.base.abci.v1beta1.TxResponse repeated tx_responses is the list of queried TxResponses. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines an pagination for the response.

#

SimulateRequest

SimulateRequest is the request type for the Service.Simulate RPC method.

Field Type Label Description tx Tx

tx is the transaction to simulate.

#

SimulateResponse

SimulateResponse is the response type for the Service.SimulateRPC method.

Field Type Label Description gas_info cosmos.base.abci.v1beta1.GasInfo

gas_info is the information about gas used in the simulation. result cosmos.base.abci.v1beta1.Result

result is the result of the simulation. end messages

#

BroadcastMode

BroadcastMode specifies the broadcast mode for the TxService.Broadcast RPC method.

Name Number Description BROADCAST_MODE_UNSPECIFIED 0 zero-value for mode ordering BROADCAST_MODE_BLOCK 1 BROADCAST_MODE_BLOCK defines a tx broadcasting mode where the client waits for the tx to be committed in a block. BROADCAST_MODE_SYNC 2 BROADCAST_MODE_SYNC defines a tx broadcasting mode where the client waits for a CheckTx execution response only. BROADCAST_MODE_ASYNC 3 BROADCAST_MODE_ASYNC defines a tx broadcasting mode where the client returns immediately.

#

OrderBy

OrderBy defines the sorting order

Name Number Description ORDER_BY_UNSPECIFIED 0 ORDER_BY_UNSPECIFIED specifies an unknown sorting order. OrderBy defaults to ASC in this case. ORDER_BY_ASC 1 ORDER_BY_ASC defines ascending order ORDER_BY_DESC 2 ORDER_BY_DESC defines descending order end enumsend HasExtensions

#

Service

Service defines a gRPC service for interacting with transactions.

Method Name Request Type Response Type Description HTTP Verb Endpoint Simulate SimulateRequest SimulateResponse Simulate simulates executing a transaction for estimating gas usage. POST /cosmos/tx/v1beta1/simulate GetTx GetTxRequest GetTxResponse GetTx fetches a tx by hash. GET /cosmos/tx/v1beta1/txs/{hash} BroadcastTx BroadcastTxRequest BroadcastTxResponse BroadcastTx broadcast transaction. POST /cosmos/tx/v1beta1/txs GetTxsEvent GetTxsEventRequest GetTxsEventResponse GetTxsEvent fetches txs by event. GET /cosmos/tx/v1beta1/txs end services

Top

#

cosmos/upgrade/v1beta1/upgrade.proto

#

CancelSoftwareUpgradeProposal

CancelSoftwareUpgradeProposal is a gov Content type for cancelling a software upgrade.

Field Type Label Description title string description string

#

Plan

Plan specifies information about a planned upgrade and when it should occur.

Field Type Label Description name string

Sets the name for the upgrade. This name will be used by the upgraded version of the software to apply any special "on-upgrade" commands during the first BeginBlock method after the upgrade is applied. It is also used to detect whether a software version can handle a given upgrade. If no upgrade handler with this name has been set in the software, it will be assumed that the software is out-of-date when the upgrade Time or Height is reached and the software will exit. time google.protobuf.Timestamp

The time after which the upgrade must be performed. Leave set to its zero value to use a pre-defined Height instead. heightint64

The height at which the upgrade must be performed. Only used if Time is not set. infostring

Any application specific upgrade info to be included on-chain such as a git commit that validators could automatically upgrade to upgraded_client_state google.protobuf.Any

IBC-enabled chains can opt-in to including the upgraded client state in its upgrade plan This will make the chain commit to the correct upgraded (self) client state before the upgrade occurs, so that connecting chains can verify that the new upgraded client is valid by verifying a proof on the previous version of the chain. This will allow IBC connections to persist smoothly across planned chain upgrades

#

SoftwareUpgradeProposal

SoftwareUpgradeProposal is a gov Content type for initiating a software upgrade.

Field Type Label Description title string description string plan Plan end messagesend enumsend HasExtensionsend services

Top

#

cosmos/upgrade/v1beta1/query.proto

#

QueryAppliedPlanRequest

QueryCurrentPlanRequest is the request type for the Query/AppliedPlan RPC method.

Field Type Label Description name string

name is the name of the applied plan to query for.

#

QueryAppliedPlanResponse

QueryAppliedPlanResponse is the response type for the Query/AppliedPlan RPC method.

Field Type Label Description height int64

height is the block height at which the plan was applied.

#

QueryCurrentPlanRequest

QueryCurrentPlanRequest is the request type for the Query/CurrentPlan RPC method.

#

QueryCurrentPlanResponse

QueryCurrentPlanResponse is the response type for the Query/CurrentPlan RPC method.

Field Type Label Description plan Plan

plan is the current upgrade plan.

#

QueryUpgradedConsensusStateRequest

QueryUpgradedConsensusStateRequest is the request type for the Query/UpgradedConsensusState RPC method.

Field Type Label Description last_height int64

last height of the current chain must be sent in request as this is the height under which next consensus state is stored

#

QueryUpgradedConsensusStateResponse

QueryUpgradedConsensusStateResponse is the response type for the Query/UpgradedConsensusState RPC method.

Field Type Label Description upgraded_consensus_state google.protobuf.Any end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC upgrade querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint CurrentPlan QueryCurrentPlanRequest QueryCurrentPlanResponse CurrentPlan queries the current upgrade plan. GET /cosmos/upgrade/v1beta1/current_plan AppliedPlan QueryAppliedPlanRequest QueryAppliedPlanResponse AppliedPlan queries a previously applied upgrade plan by its name. GET /cosmos/upgrade/v1beta1/applied_plan/{name} UpgradedConsensusState QueryUpgradedConsensusStateRequest QueryUpgradedConsensusStateResponse UpgradedConsensusState queries the consensus state that will serve as a trusted kernel for the next version of this chain. It will only be stored at the last height of this chain. UpgradedConsensusState RPC not supported with legacy querier GET /cosmos/upgrade/v1beta1/upgraded_consensus_state/{last_height} end services

Top

#

cosmos/vesting/v1beta1/tx.proto

#

MsgCreateVestingAccount

MsgCreateVestingAccount defines a message that enables creating a vesting account.

Field Type Label Description from_address string to_address string amount cosmos.base.v1beta1.Coin repeated end_time int64 delayed bool

#

MsgCreateVestingAccountResponse

MsgCreateVestingAccountResponse defines the Msg/CreateVestingAccount response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the bank Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint CreateVestingAccount MsgCreateVestingAccount

MsgCreateVestingAccountResponse CreateVestingAccount defines a method that enables creating a vesting account. end services

Top

#

cosmos/vesting/v1beta1/vesting.proto

#

BaseVestingAccount

BaseVestingAccount implements the VestingAccount interface. It contains all the necessary fields needed for any vesting account implementation.

Field Type Label Description base_account cosmos.auth.v1beta1.BaseAccount original_vesting cosmos.base.v1beta1.Coin repeated delegated_free cosmos.base.v1beta1.Coin repeated delegated_vesting cosmos.base.v1beta1.Coin repeated end_time int64

#

ContinuousVestingAccount

ContinuousVestingAccount implements the VestingAccount interface. It continuously vests by unlocking coins linearly with respect to time.

Field Type Label Description base_vesting_account BaseVestingAccount start_time int64

#

DelayedVestingAccount

DelayedVestingAccount implements the VestingAccount interface. It vests all coins after a specific time, but non prior. In other words, it keeps them locked until a specified time.

Field Type Label Description base_vesting_account BaseVestingAccount

#

Period

Period defines a length of time and amount of coins that will vest.

Field Type Label Description length int64 amount cosmos.base.v1beta1.Coin repeated

#

PeriodicVestingAccount

PeriodicVestingAccount implements the VestingAccount interface. It periodically vests by unlocking coins during each specified period.

Field Type Label Description base_vesting_account BaseVestingAccount start_time int64 vesting_periods Period repeated end messagesend enumsend HasExtensionsend services

Top

#

farm/farm.proto

#

FarmInfo

Field Type Label Description pool_name string address string locked string reward_debt cosmos.base.v1beta1.Coin repeated

#

FarmPool

Field Type Label Description name string creator string description string start_height int64 end_height int64 last_height_distr_rewards int64 editable bool total_lpt_locked cosmos.base.v1beta1.Coin rules RewardRule repeated

#

Params

Field Type Label Description create_pool_fee cosmos.base.v1beta1.Coin max_reward_categories uint32

#

RewardRule

Field Type Label Description reward string total_reward string remaining_reward string reward_per_block string reward_per_share string end messagesend enumsend HasExtensionsend services

Top

#

farm/genesis.proto

#

GenesisState

Field Type Label Description params Params pools FarmPool repeated farm_infos FarmInfo repeated end messagesend enumsend HasExtensionsend services

Top

#

farm/query.proto

#

FarmPoolEntry

Field Type Label Description name string creator string description string start_height int64 end_height int64 editable bool expired bool total_lpt_locked cosmos.base.v1beta1.Coin total_reward cosmos.base.v1beta1.Coin repeated remaining_reward cosmos.base.v1beta1.Coin repeated reward_per_block cosmos.base.v1beta1.Coin repeated

#

LockedInfo

Field Type Label Description pool_name string locked cosmos.base.v1beta1.Coin pending_reward cosmos.base.v1beta1.Coin repeated

#

QueryFarmPoolRequest

Field Type Label Description name string

#

QueryFarmPoolResponse

Field Type Label Description pool FarmPoolEntry

#

QueryFarmPoolsRequest

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

#

QueryFarmPoolsResponse

Field Type Label Description pools FarmPoolEntry repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QueryFarmerRequest

Field Type Label Description farmer string pool_name string

#

QueryFarmerResponse

Field Type Label Description list LockedInfo repeated height int64

#

QueryParamsRequest

#

QueryParamsResponse

Field Type Label Description params Params end messagesend enumsend HasExtensions

#

Query

Method Name Request Type Response Type Description HTTP Verb Endpoint FarmPools QueryFarmPoolsRequest QueryFarmPoolsResponse

GET /irismod/farm/pools FarmPool QueryFarmPoolRequest QueryFarmPoolResponse

GET /irismod/farm/pool/{name} Farmer QueryFarmerRequest QueryFarmerResponse

GET /irismod/farm/farmers/{farmer} Params QueryParamsRequest QueryParamsResponse Params queries the htlc parameters GET /irismod/farm/params end services

Top

# #

farm/tx.proto

#

MsgAdjustPool

Field Type Label Description pool_name string additional_reward cosmos.base.v1beta1.Coin repeated reward_per_block cosmos.base.v1beta1.Coin repeated creator string

#

MsgAdjustPoolResponse

#

MsgCreatePool

Field Type Label Description name string description string lpt_denom string start_height int64 reward_per_block cosmos.base.v1beta1.Coin repeated total_reward cosmos.base.v1beta1.Coin repeated editable bool creator string

#

MsgCreatePoolResponse

#

MsgDestroyPool

Field Type Label Description pool_name string creator string

#

MsgDestroyPoolResponse

#

MsgHarvest

Field Type Label Description pool_name string sender string

#

MsgHarvestResponse

Field Type Label Description reward cosmos.base.v1beta1.Coin repeated

#

MsgStake

Field Type Label Description pool_name string amount cosmos.base.v1beta1.Coin sender string

#

MsgStakeResponse

Field Type Label Description reward cosmos.base.v1beta1.Coin repeated

#

MsgUnstake

Field Type Label Description pool_name string amount cosmos.base.v1beta1.Coin sender string

#

MsgUnstakeResponse

Field Type Label Description reward cosmos.base.v1beta1.Coin repeated end messagesend enumsend HasExtensions

#

Msg

Msg defines the farm Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint CreatePool MsgCreatePool MsgCreatePoolResponse CreatePool defines a method for creating a new farm pool DestroyPool MsgDestroyPool MsgDestroyPoolResponse DestroyPool defines a method for destroying a existed farm pool AdjustPool MsgAdjustPool MsgAdjustPoolResponse AdjustPool defines a method for adjusting the farm pool params Stake MsgStake MsgStakeResponse Stake defines a method for staking some lp token to a farm pool Unstake MsgUnstake MsgUnstakeResponse Unstake defines a method for unstaking some lp token from a farm pool and withdraw some reward Harvest MsgHarvest MsgHarvestResponse Harvest defines a method withdraw some reward from a farm pool end services

Top

#

guardian/guardian.proto

#

Super

Super defines the super standard

Field Type Label Description description string account_type AccountType address string added_by string end messages

#

AccountType

AccountType defines the super account type

Name Number Description GENESIS 0 GENESIS defines a genesis account type ORDINARY 1 ORDINARY defines a ordinary account type end enumsend HasExtensionsend services

Top

#

guardian/genesis.proto

#

GenesisState

GenesisState defines the guardian module's genesis state

Field Type Label Description supers Super repeated end messagesend enumsend HasExtensionsend services

Top

#

guardian/query.proto

#

QuerySupersRequest

QuerySupersRequest is request type for the Query/Supers RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request

#

QuerySupersResponse

QuerySupersResponse is response type for the Query/Supers RPC method

Field Type Label Description supers Super repeated pagination cosmos.base.query.v1beta1.PageResponse end messagesend enumsend HasExtensions

#

Query

Query creates service with guardian as RPC

Method Name Request Type Response Type Description HTTP Verb Endpoint Supers QuerySupersRequest QuerySupersResponse Supers returns all Supers GET /irishub/guardian/supers end services

Top

# #

guardian/tx.proto

#

MsgAddSuper

MsgAddSuper defines the properties of add super account message

Field Type Label Description description string address string added_by string

#

MsgAddSuperResponse

MsgAddSuperResponse defines the Msg/AddSuper response type

#

MsgDeleteSuper

MsgDeleteSuper defines the properties of delete super account message

Field Type Label Description address string deleted_by string

#

MsgDeleteSuperResponse

MsgDeleteSuperResponse defines the Msg/DeleteSuper response type

end messagesend enumsend HasExtensions

#

Msg

Msg defines the guardian Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint AddSuper MsgAddSuper MsgAddSuperResponse AddSuper defines a method for adding a super account DeleteSuper MsgDeleteSuper MsgDeleteSuperResponse DeleteSuper defines a method for deleting a super account end services

Top

# #

htlc/htlc.proto

#

AssetParam

Field Type Label Description denom string

name of the asset supply_limit SupplyLimit

asset supply limit active bool

denotes if asset is available or paused deputy_address string

the address of the relayer process fixed_fee string

the fixed fee charged by the relayer process for outgoing swaps min_swap_amount string

Minimum swap amount max_swap_amount string

Maximum swap amount min_block_lock uint64

Minimum swap block lock max_block_lock uint64

Maximum swap block lock

#

AssetSupply

Field Type Label Description incoming_supply cosmos.base.v1beta1.Coin outgoing_supply cosmos.base.v1beta1.Coin current_supply cosmos.base.v1beta1.Coin time_limited_current_supply cosmos.base.v1beta1.Coin time_elapsed google.protobuf.Duration

#

HTLC

HTLC defines the struct of an HTLC

Field Type Label Description id string sender string to string receiver_on_other_chain string sender_on_other_chain string amount cosmos.base.v1beta1.Coin repeated hash_lock string secret string timestamp uint64 expiration_height uint64 state HTLCState closed_block uint64 transfer bool direction SwapDirection

#

Params

Params defines token module's parameters

Field Type Label Description asset_params AssetParam repeated

#

SupplyLimit

Field Type Label Description limit string

the absolute supply limit for an asset time_limited bool

boolean for if the supply is also limited by time time_period google.protobuf.Duration

the duration for which the supply time limit applies time_based_limit string

the supply limit for an asset for each time period end messages

#

HTLCState

HTLCState defines the state of an HTLC

Name Number Description HTLC_STATE_OPEN 0 HTLC_STATE_OPEN defines an open state. HTLC_STATE_COMPLETED 1 HTLC_STATE_COMPLETED defines a completed state. HTLC_STATE_REFUNDED 2 HTLC_STATE_REFUNDED defines a refunded state.

#

SwapDirection

SwapDirection defines the direction of an HTLT

Name Number Description NONE 0 NONE defines an htlt none direction. INCOMING 1 INCOMING defines an htlt incoming direction. OUTGOING 2 OUTGOING defines an htlt outgoing direction. end enumsend HasExtensionsend services

Top

#

htlc/genesis.proto

#

GenesisState

GenesisState defines the HTLC module's genesis state

Field Type Label Description params Params htlcs HTLC repeated supplies AssetSupply repeated previous_block_time google.protobuf.Timestamp end messagesend enumsend HasExtensionsend services

Top

#

htlc/query.proto

#

QueryAssetSuppliesRequest

QueryAssetSuppliesRequest is request type for the Query/AssetSupplies RPC method

#

QueryAssetSuppliesResponse

QueryAssetSuppliesResponse is response type for the Query/AssetSupplies RPC method

Field Type Label Description asset_supplies AssetSupply repeated

#

QueryAssetSupplyRequest

QueryAssetSupplyRequest is request type for the Query/AssetSupply RPC method

Field Type Label Description denom string

#

QueryAssetSupplyResponse

QueryAssetSupplyResponse is response type for the Query/AssetSupply RPC method

Field Type Label Description asset_supply AssetSupply

#

QueryHTLCRequest

QueryHTLCRequest is the request type for the Query/HTLC RPC method

Field Type Label Description id string

#

QueryHTLCResponse

QueryBalanceResponse is the response type for the Query/HTLC RPC method

Field Type Label Description htlc HTLC

#

QueryParamsRequest

QueryParamsRequest is request type for the Query/Parameters RPC method

#

QueryParamsResponse

QueryParamsResponse is response type for the Query/Parameters RPC method

Field Type Label Description params Params end messagesend enumsend HasExtensions

#

Query

Query provides defines the gRPC querier service

Method Name Request Type Response Type Description HTTP Verb Endpoint HTLC QueryHTLCRequest QueryHTLCResponse HTLC queries the HTLC by the specified hash lock GET /irismod/htlc/htlcs/{id} AssetSupply QueryAssetSupplyRequest QueryAssetSupplyResponse AssetSupply queries the supply of an asset GET /irismod/htlc/supplies/{denom} AssetSupplies QueryAssetSuppliesRequest QueryAssetSuppliesResponse AssetSupplies queries the supplies of all assets GET /irismod/htlc/supplies Params QueryParamsRequest QueryParamsResponse Params queries the htlc parameters GET /irismod/htlc/params end services

Top

#

htlc/tx.proto

#

MsgClaimHTLC

MsgClaimHTLC defines a message to claim an HTLC

Field Type Label Description sender string id string secret string

#

MsgClaimHTLCResponse

MsgClaimHTLCResponse defines the Msg/ClaimHTLC response type

#

MsgCreateHTLC

MsgCreateHTLC defines a message to create an HTLC

Field Type Label Description sender string to string receiver_on_other_chain string sender_on_other_chain string amount cosmos.base.v1beta1.Coin repeated hash_lock string timestamp uint64 time_lock uint64 transfer bool

#

MsgCreateHTLCResponse

MsgCreateHTLCResponse defines the Msg/CreateHTLC response type

Field Type Label Description id string end messagesend enumsend HasExtensions

#

Msg

Msg defines the HTLC Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint CreateHTLC MsgCreateHTLC MsgCreateHTLCResponse CreateHTLC defines a method for creating a HTLC ClaimHTLC MsgClaimHTLC MsgClaimHTLCResponse ClaimHTLC defines a method for claiming a HTLC end services

Top

#

ibc/applications/transfer/v1/transfer.proto

#

DenomTrace

DenomTrace contains the base denomination for ICS20 fungible tokens and the source tracing information path.

Field Type Label Description path string

path defines the chain of port/channel identifiers used for tracing the source of the fungible token. base_denomstring

base denomination of the relayed fungible token.

#

FungibleTokenPacketData

FungibleTokenPacketData defines a struct for the packet payload See FungibleTokenPacketData spec: https://github.com/cosmos/ics/tree/master/spec/ics-020-fungible-token-transfer#data-structures

Field Type Label Description denom string

the token denomination to be transferred amountuint64

the token amount to be transferred senderstring

the sender address receiver string

the recipient address on the destination chain

#

Params

Params defines the set of IBC transfer parameters. NOTE: To prevent a single token from being transferred, set the TransfersEnabled parameter to true and then set the bank module's SendEnabled parameter for the denomination to false.

Field Type Label Description send_enabled bool

send_enabled enables or disables all cross-chain token transfers from this chain. receive_enabledbool

receive_enabled enables or disables all cross-chain token transfers to this chain. end messagesend enumsend HasExtensionsend services

Top

#

ibc/applications/transfer/v1/genesis.proto

#

GenesisState

GenesisState defines the ibc-transfer genesis state

Field Type Label Description port_id string denom_traces DenomTrace repeated params Params end messagesend enumsend HasExtensionsend services

Top

#

ibc/applications/transfer/v1/query.proto

#

QueryDenomTraceRequest

QueryDenomTraceRequest is the request type for the Query/DenomTrace RPC method

Field Type Label Description hash string

hash (in hex format) of the denomination trace information.

#

QueryDenomTraceResponse

QueryDenomTraceResponse is the response type for the Query/DenomTrace RPC method.

Field Type Label Description denom_trace DenomTrace

denom_trace returns the requested denomination trace information.

#

QueryDenomTracesRequest

QueryConnectionsRequest is the request type for the Query/DenomTraces RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDenomTracesResponse

QueryConnectionsResponse is the response type for the Query/DenomTraces RPC method.

Field Type Label Description denom_traces DenomTrace repeated denom_traces returns all denominations trace information. pagination cosmos.base.query.v1beta1.PageResponse

pagination defines the pagination in the response.

#

QueryParamsRequest

QueryParamsRequest is the request type for the Query/Params RPC method.

#

QueryParamsResponse

QueryParamsResponse is the response type for the Query/Params RPC method.

Field Type Label Description params Params

params defines the parameters of the module. end messagesend enumsend HasExtensions

#

Query

Query provides defines the gRPC querier service.

Method Name Request Type Response Type Description HTTP Verb Endpoint DenomTrace QueryDenomTraceRequest QueryDenomTraceResponse DenomTrace queries a denomination trace information. GET /ibc/applications/transfer/v1beta1/denom_traces/{hash} DenomTraces QueryDenomTracesRequest QueryDenomTracesResponse DenomTraces queries all denomination traces. GET /ibc/applications/transfer/v1beta1/denom_traces Params QueryParamsRequest QueryParamsResponse Params queries all parameters of the ibc-transfer module. GET /ibc/applications/transfer/v1beta1/params end services

Top

#

ibc/core/client/v1/client.proto

#

ClientConsensusStates

ClientConsensusStates defines all the stored consensus states for a given client.

Field Type Label Description client_id string

client identifier consensus_states ConsensusStateWithHeight repeated consensus states and their heights associated with the client

#

ClientUpdateProposal

ClientUpdateProposal is a governance proposal. If it passes, the client is updated with the provided header. The update may fail if the header is not valid given certain conditions specified by the client implementation.

Field Type Label Description title string

the title of the update proposal descriptionstring

the description of the proposal client_idstring

the client identifier for the client to be updated if the proposal passes headergoogle.protobuf.Any

the header used to update the client if the proposal passes

#

ConsensusStateWithHeight

ConsensusStateWithHeight defines a consensus state with an additional height field.

Field Type Label Description height Height

consensus state height consensus_state google.protobuf.Any

consensus state

#

Height

Height is a monotonically increasing data type that can be compared against another Height for the purposes of updating and freezing clients

Normally the RevisionHeight is incremented at each height while keeping RevisionNumber the same. However some consensus algorithms may choose to reset the height in certain conditions e.g. hard forks, state-machine breaking changes In these cases, the RevisionNumber is incremented so that height continues to be monitonically increasing even as the RevisionHeight gets reset

Field Type Label Description revision_number uint64

the revision that the client is currently on revision_heightuint64

the height within the given revision

#

IdentifiedClientState

IdentifiedClientState defines a client state with an additional client identifier field.

Field Type Label Description client_id string

client identifier client_state google.protobuf.Any

client state

#

Params

Params defines the set of IBC light client parameters.

Field Type Label Description allowed_clients string repeated allowed_clients defines the list of allowed client state types. end messagesend enumsend HasExtensionsend services

Top

# #

ibc/applications/transfer/v1/tx.proto

#

MsgTransfer

MsgTransfer defines a msg to transfer fungible tokens (i.e Coins) between ICS20 enabled chains. See ICS Spec here: https://github.com/cosmos/ics/tree/master/spec/ics-020-fungible-token-transfer#data-structures

Field Type Label Description source_port string

the port on which the packet will be sent source_channelstring

the channel by which the packet will be sent tokencosmos.base.v1beta1.Coin

the tokens to be transferred senderstring

the sender address receiver string

the recipient address on the destination chain timeout_heightibc.core.client.v1.Height

Timeout height relative to the current block height. The timeout is disabled when set to 0. timeout_timestampuint64

Timeout timestamp (in nanoseconds) relative to the current block timestamp. The timeout is disabled when set to 0.

#

MsgTransferResponse

MsgTransferResponse defines the Msg/Transfer response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the ibc/transfer Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint TransferMsgTransfer MsgTransferResponse Transfer defines a rpc handler method for MsgTransfer. end services

Top

ibc/core/channel/v1/channel.proto

#

Acknowledgement

Acknowledgement is the recommended acknowledgement format to be used by app-specific protocols. NOTE: The field numbers 21 and 22 were explicitly chosen to avoid accidental conflicts with other protobuf message formats used for acknowledgements. The first byte of any message with this format will be the non-ASCII values0xaa (result) or0xb2 (error). Implemented as defined by ICS: https://github.com/cosmos/ics/tree/master/spec/ics-004-channel-and-packet-semantics#acknowledgement-envelope

Field Type Label Description result bytes error string

#

Channel

Channel defines pipeline for exactly-once packet delivery between specific modules on separate blockchains, which has at least one end capable of sending packets and one end capable of receiving packets.

Field Type Label Description state State

current state of the channel end ordering Order

whether the channel is ordered or unordered counterparty Counterparty

counterparty channel end connection_hops string repeated list of connection identifiers, in order, along which packets sent on this channel will travel version string

opaque channel version, which is agreed upon during the handshake

#

Counterparty

Counterparty defines a channel end counterparty

Field Type Label Description port_id string

port on the counterparty chain which owns the other end of the channel. channel_idstring

channel end on the counterparty chain

#

IdentifiedChannel

IdentifiedChannel defines a channel with additional port and channel identifier fields.

Field Type Label Description state State

current state of the channel end ordering Order

whether the channel is ordered or unordered counterparty Counterparty

counterparty channel end connection_hops string repeated list of connection identifiers, in order, along which packets sent on this channel will travel version string

opaque channel version, which is agreed upon during the handshake port_idstring

port identifier channel_id string

channel identifier

#

Packet

Packet defines a type that carries data across different chains through IBC

Field Type Label Description sequence uint64

number corresponds to the order of sends and receives, where a Packet with an earlier sequence number must be sent and received before a Packet with a later sequence number. source_port string

identifies the port on the sending chain. source_channelstring

identifies the channel end on the sending chain. destination_portstring

identifies the port on the receiving chain. destination_channelstring

identifies the channel end on the receiving chain. databytes

actual opaque bytes transferred directly to the application module timeout_heightibc.core.client.v1.Height

block height after which the packet times out timeout_timestampuint64

block timestamp (in nanoseconds) after which the packet times out

#

PacketState

PacketState defines the generic type necessary to retrieve and store packet commitments, acknowledgements, and receipts. Caller is responsible for knowing the context necessary to interpret this state as a commitment, acknowledgement, or a receipt.

Field Type Label Description port_id string

channel port identifier. channel_id string

channel unique identifier. sequence uint64

packet sequence. data bytes

embedded data that represents packet state. end messages

#

Order

Order defines if a channel is ORDERED or UNORDERED

Name Number Description ORDER_NONE_UNSPECIFIED 0 zero-value for channel ordering ORDER_UNORDERED 1 packets can be delivered in any order, which may differ from the order in which they were sent. ORDER_ORDERED 2 packets are delivered exactly in the order which they were sent

#

State

State defines if a channel is in one of the following states: CLOSED, INIT, TRYOPEN, OPEN or UNINITIALIZED.

Name Number Description STATE_UNINITIALIZED_UNSPECIFIED 0 Default State STATE_INIT 1 A channel has just started the opening handshake. STATE_TRYOPEN 2 A channel has acknowledged the handshake step on the counterparty chain. STATE_OPEN 3 A channel has completed the handshake. Open channels are ready to send and receive packets. STATE_CLOSED 4 A channel has been closed and can no longer be used to send or receive packets. end enumsend HasExtensionsend services

Top

#

ibc/core/channel/v1/genesis.proto

#

GenesisState

GenesisState defines the ibc channel submodule's genesis state.

Field Type Label Description channels IdentifiedChannel repeated acknowledgements PacketState repeated commitments PacketState repeated receipts PacketState repeated send_sequences PacketSequence repeated recv_sequences PacketSequence repeated ack_sequences PacketSequence repeated next_channel_sequence uint64

the sequence for the next generated channel identifier

#

PacketSequence

PacketSequence defines the genesis type necessary to retrieve and store next send and receive sequences.

Field Type Label Description port_id string channel_id string sequence uint64 end messagesend enumsend HasExtensionsend services

Top

ibc/core/channel/v1/query.proto

#

QueryChannelClientStateRequest

QueryChannelClientStateRequest is the request type for the Query/ClientState RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier

#

QueryChannelClientStateResponse

QueryChannelClientStateResponse is the Response type for the Query/QueryChannelClientState RPC method

Field Type Label Description identified_client_state ibc.core.client.v1.IdentifiedClientState

client state associated with the channel proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryChannelConsensusStateRequest

QueryChannelConsensusStateRequest is the request type for the Query/ConsensusState RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier revision_number uint64

revision number of the consensus state revision_heightuint64

revision height of the consensus state

#

QueryChannelConsensusStateResponse

QueryChannelClientStateResponse is the Response type for the Query/QueryChannelClientState RPC method

Field Type Label Description consensus_state google.protobuf.Any

consensus state associated with the channel client_idstring

client ID associated with the consensus state proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryChannelRequest

QueryChannelRequest is the request type for the Query/Channel RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier

#

QueryChannelResponse

QueryChannelResponse is the response type for the Query/Channel RPC method. Besides the Channel end, it includes a proof and the height from which the proof was retrieved.

Field Type Label Description channel Channel

channel associated with the request identifiers proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryChannelsRequest

QueryChannelsRequest is the request type for the Query/Channels RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination request

#

QueryChannelsResponse

QueryChannelsResponse is the response type for the Query/Channels RPC method.

Field Type Label Description channels IdentifiedChannel repeated list of stored channels of the chain. pagination cosmos.base.query.v1beta1.PageResponse

pagination response height ibc.core.client.v1.Height

query block height

#

QueryConnectionChannelsRequest

QueryConnectionChannelsRequest is the request type for the Query/QueryConnectionChannels RPC method

Field Type Label Description connection string

connection unique identifier pagination cosmos.base.query.v1beta1.PageRequest

pagination request

#

QueryConnectionChannelsResponse

QueryConnectionChannelsResponse is the Response type for the Query/QueryConnectionChannels RPC method

Field Type Label Description channels IdentifiedChannel repeated list of channels associated with a connection. pagination cosmos.base.query.v1beta1.PageResponse

pagination response height ibc.core.client.v1.Height

query block height

#

QueryNextSequenceReceiveRequest

QueryNextSequenceReceiveRequest is the request type for the Query/QueryNextSequenceReceiveRequest RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier

#

QueryNextSequenceReceiveResponse

QuerySequenceResponse is the request type for the Query/QueryNextSequenceReceiveResponse RPC method

Field Type Label Description next_sequence_receive uint64

next sequence receive number proof bytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryPacketAcknowledgementRequest

QueryPacketAcknowledgementRequest is the request type for the Query/PacketAcknowledgement RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier sequence uint64

packet sequence

#

QueryPacketAcknowledgementResponse

QueryPacketAcknowledgementResponse defines the client query response for a packet which also includes a proof and the height from which the proof was retrieved

Field Type Label Description acknowledgement bytes

packet associated with the request fields proof bytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryPacketAcknowledgementsRequest

QueryPacketAcknowledgementsRequest is the request type for the Query/QueryPacketCommitments RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier pagination cosmos.base.query.v1beta1.PageRequest

pagination request

#

QueryPacketAcknowledgementsResponse

QueryPacketAcknowledgemetsResponse is the request type for the Query/QueryPacketAcknowledgements RPC method

Field Type Label Description acknowledgements PacketState repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination response height ibc.core.client.v1.Height

query block height

#

QueryPacketCommitmentRequest

QueryPacketCommitmentRequest is the request type for the Query/PacketCommitment RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier sequence uint64

packet sequence

#

QueryPacketCommitmentResponse

QueryPacketCommitmentResponse defines the client query response for a packet which also includes a proof and the height from which the proof was retrieved

Field Type Label Description commitment bytes

packet associated with the request fields proof bytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryPacketCommitmentsRequest

QueryPacketCommitmentsRequest is the request type for the Query/QueryPacketCommitments RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier pagination cosmos.base.query.v1beta1.PageRequest

pagination request

#

QueryPacketCommitmentsResponse

QueryPacketCommitmentsResponse is the request type for the Query/QueryPacketCommitments RPC method

Field Type Label Description commitments PacketState repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination response height ibc.core.client.v1.Height

query block height

#

QueryPacketReceiptRequest

QueryPacketReceiptRequest is the request type for the Query/PacketReceipt RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier sequence uint64

packet sequence

#

QueryPacketReceiptResponse

QueryPacketReceiptResponse defines the client query response for a packet receipt which also includes a proof, and the height from which the proof was retrieved

Field Type Label Description received bool

success flag for if receipt exists proof bytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryUnreceivedAcksRequest

QueryUnreceivedAcks is the request type for the Query/UnreceivedAcks RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier packet_ack_sequences uint64 repeated list of acknowledgement sequences

#

QueryUnreceivedAcksResponse

QueryUnreceivedAcksResponse is the response type for the Query/UnreceivedAcks RPC method

Field Type Label Description sequences uint64 repeated list of unreceived acknowledgement sequences height ibc.core.client.v1.Height

query block height

#

QueryUnreceivedPacketsRequest

QueryUnreceivedPacketsRequest is the request type for the Query/UnreceivedPackets RPC method

Field Type Label Description port_id string

port unique identifier channel_id string

channel unique identifier packet_commitment_sequences uint64 repeated list of packet sequences

#

QueryUnreceivedPacketsResponse

QueryUnreceivedPacketsResponse is the response type for the Query/UnreceivedPacketCommitments RPC method

Field Type Label Description sequences uint64 repeated list of unreceived packet sequences height ibc.core.client.v1.Height

query block height end messagesend enumsend HasExtensions

#

Query

Query provides defines the gRPC querier service

Method Name Request Type Response Type Description HTTP Verb Endpoint Channel QueryChannelRequest QueryChannelResponse Channel queries an IBC Channel. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id} Channels QueryChannelsRequest QueryChannelsResponse Channels queries all the IBC channels of a chain. GET /ibc/core/channel/v1beta1/channels ConnectionChannels QueryConnectionChannelsRequest QueryConnectionChannelsResponse ConnectionChannels queries all the channels associated with a connection end. GET /ibc/core/channel/v1beta1/connections/{connection}/channels ChannelClientState QueryChannelClientStateRequest QueryChannelClientStateResponse ChannelClientState queries for the client state for the channel associated with the provided channel identifiers. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/client_state ChannelConsensusState QueryChannelConsensusStateRequest QueryChannelConsensusStateResponse ChannelConsensusState queries for the consensus state for the channel associated with the provided channel identifiers. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/consensus_state/revision/{revision_number}/height/{revision_height} PacketCommitment QueryPacketCommitmentRequest QueryPacketCommitmentResponse PacketCommitment queries a stored packet commitment hash. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_commitments/{sequence} PacketCommitments QueryPacketCommitmentsRequest QueryPacketCommitmentsResponse PacketCommitments returns all the packet commitments hashes associated with a channel. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_commitments PacketReceipt QueryPacketReceiptRequest QueryPacketReceiptResponse PacketReceipt queries if a given packet sequence has been received on the queried chain GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_receipts/{sequence} PacketAcknowledgement QueryPacketAcknowledgementRequest QueryPacketAcknowledgementResponse PacketAcknowledgement queries a stored packet acknowledgement hash. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_acks/{sequence} PacketAcknowledgements QueryPacketAcknowledgementsRequest QueryPacketAcknowledgementsResponse PacketAcknowledgements returns all the packet acknowledgements associated with a channel. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_acknowledgements UnreceivedPackets QueryUnreceivedPacketsRequest QueryUnreceivedPacketsResponse UnreceivedPackets returns all the unreceived IBC packets associated with a channel and sequences. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_commitments/{packet_commitment_sequences}/unreceived_packets UnreceivedAcks QueryUnreceivedAcksRequest QueryUnreceivedAcksResponse UnreceivedAcks returns all the unreceived IBC acknowledgements associated with a channel and sequences. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/packet_commitments/{packet_ack_sequences}/unreceived_acks NextSequenceReceive QueryNextSequenceReceiveRequest QueryNextSequenceReceiveResponse NextSequenceReceive returns the

next receive sequence for a given channel. GET /ibc/core/channel/v1beta1/channels/{channel_id}/ports/{port_id}/next_sequence end services

Top

#

ibc/core/channel/v1/tx.proto

#

MsgAcknowledgement

MsgAcknowledgement receives incoming IBC acknowledgement

Field Type Label Description packet Packet acknowledgement bytes proof_acked bytes proof_height ibc.core.client.v1.Height signer string

#

MsgAcknowledgementResponse

MsgAcknowledgementResponse defines the Msg/Acknowledgement response type.

#

MsgChannelCloseConfirm

MsgChannelCloseConfirm defines a msg sent by a Relayer to Chain B to acknowledge the change of channel state to CLOSED on Chain A.

Field Type Label Description port_id string channel_id string proof_init bytes proof_height ibc.core.client.v1.Height signer string

#

MsgChannelCloseConfirmResponse

MsgChannelCloseConfirmResponse defines the Msg/ChannelCloseConfirm response type.

#

MsgChannelCloseInit

MsgChannelCloseInit defines a msg sent by a Relayer to Chain A to close a channel with Chain B.

Field Type Label Description port_id string channel_id string signer string

#

MsgChannelCloseInitResponse

MsgChannelCloseInitResponse defines the Msg/ChannelCloseInit response type.

#

MsgChannelOpenAck

MsgChannelOpenAck defines a msg sent by a Relayer to Chain A to acknowledge the change of channel state to TRYOPEN on Chain B.

Field Type Label Description port_id string channel_id string counterparty_channel_id string counterparty_version string proof_try bytes proof_height ibc.core.client.v1.Height signer string

#

MsgChannelOpenAckResponse

MsgChannelOpenAckResponse defines the Msg/ChannelOpenAck response type.

#

MsgChannelOpenConfirm

MsgChannelOpenConfirm defines a msg sent by a Relayer to Chain B to acknowledge the change of channel state to OPEN on Chain A.

Field Type Label Description port_id string channel_id string proof_ack bytes proof_height ibc.core.client.v1.Height signer string

#

MsgChannelOpenConfirmResponse

MsgChannelOpenConfirmResponse defines the Msg/ChannelOpenConfirm response type.

#

MsgChannelOpenInit

MsgChannelOpenInit defines an sdk.Msg to initialize a channel handshake. It is called by a relayer on Chain A.

Field Type Label Description port_id string channel Channel signer string

#

MsgChannelOpenInitResponse

MsgChannelOpenInitResponse defines the Msg/ChannelOpenInit response type.

#

MsgChannelOpenTry

MsgChannelOpenInit defines a msg sent by a Relayer to try to open a channel on Chain B.

Field Type Label Description port_id string previous_channel_id string

in the case of crossing hello's, when both chains call OpenInit, we need the channel identifier of the previous channel in state INIT channel Channel counterparty_version string proof_init bytes proof_height ibc.core.client.v1.Height signer string

#

MsgChannelOpenTryResponse

MsgChannelOpenTryResponse defines the Msg/ChannelOpenTry response type.

#

MsgRecvPacket

MsgRecvPacket receives incoming IBC packet

Field Type Label Description packet Packet proof_commitment bytes proof_height ibc.core.client.v1.Height signer string

#

MsgRecvPacketResponse

MsgRecvPacketResponse defines the Msg/RecvPacket response type.

#

MsgTimeout

MsgTimeout receives timed-out packet

Field Type Label Description packet Packet proof_unreceived bytes proof_height ibc.core.client.v1.Height next_sequence_recv uint64 signer string

#

MsgTimeoutOnClose

MsgTimeoutOnClose timed-out packet upon counterparty channel closure.

Field Type Label Description packet Packet proof_unreceived bytes proof_close bytes proof_height ibc.core.client.v1.Height next_sequence_recv uint64 signer string

#

MsgTimeoutOnCloseResponse

MsgTimeoutOnCloseResponse defines the Msg/TimeoutOnClose response type.

#

MsgTimeoutResponse

MsgTimeoutResponse defines the Msg/Timeout response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the ibc/channel Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint ChannelOpenInit MsgChannelOpenInit MsgChannelOpenInitResponse ChannelOpenInit defines a rpc handler method for MsgChannelOpenInit. ChannelOpenTry MsgChannelOpenTry MsgChannelOpenTryResponse ChannelOpenTry defines a rpc handler method for MsgChannelOpenTry. ChannelOpenAck MsgChannelOpenAck MsgChannelOpenAckResponse ChannelOpenAck defines a rpc handler method for MsgChannelOpenAck. ChannelOpenConfirm MsgChannelOpenConfirm MsgChannelOpenConfirmResponse ChannelOpenConfirm defines a rpc handler method for MsgChannelOpenConfirm. ChannelCloseInit MsgChannelCloseInit MsgChannelCloseInitResponse ChannelCloseInit defines a rpc handler method for MsgChannelCloseInit. ChannelCloseConfirm MsgChannelCloseConfirm MsgChannelCloseConfirmResponse ChannelCloseConfirm defines a rpc handler method for MsgChannelCloseConfirm. RecvPacket MsgRecvPacket MsgRecvPacketResponse RecvPacket defines a rpc handler method for MsgRecvPacket. TimeoutMsgTimeout MsgTimeoutResponse Timeout defines a rpc handler method for MsgTimeout. TimeoutOnCloseMsgTimeoutOnClose MsgTimeoutOnCloseResponse TimeoutOnClose defines a rpc handler method for MsgTimeoutOnClose. Acknowledgement MsgAcknowledgement MsgAcknowledgementResponse Acknowledgement defines a rpc handler method for MsgAcknowledgement. end services

Top

#

ibc/core/client/v1/genesis.proto

#

GenesisMetadata

GenesisMetadata defines the genesis type for metadata that clients may return with ExportMetadata

Field Type Label Description key bytes

store key of metadata without clientID-prefix value bytes

metadata value

#

GenesisState

GenesisState defines the ibc client submodule's genesis state.

Field Type Label Description clients IdentifiedClientState repeated client states with their corresponding identifiers clients_consensus ClientConsensusStates repeated consensus states from each client clients_metadata IdentifiedGenesisMetadata repeated metadata from each client params Params create_localhost bool

create localhost on initialization next_client_sequence uint64

the sequence for the next generated client identifier

#

IdentifiedGenesisMetadata

IdentifiedGenesisMetadata has the client metadata with the corresponding client id.

Field Type Label Description client_id string client_metadata GenesisMetadata repeated end messagesend enumsend HasExtensionsend services

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#

ibc/core/client/v1/query.proto

#

QueryClientParamsRequest

QueryClientParamsRequest is the request type for the Query/ClientParams RPC method.

#

QueryClientParamsResponse

QueryClientParamsResponse is the response type for the Query/ClientParams RPC method.

Field Type Label Description params Params

params defines the parameters of the module.

#

QueryClientStateRequest

QueryClientStateRequest is the request type for the Query/ClientState RPC method

Field Type Label Description client_id string

client state unique identifier

#

QueryClientStateResponse

QueryClientStateResponse is the response type for the Query/ClientState RPC method. Besides the client state, it includes a proof and the height from which the proof was retrieved.

Field Type Label Description client_state google.protobuf.Any

client state associated with the request identifier proof bytes

merkle proof of existence proof_height Height

height at which the proof was retrieved

#

QueryClientStatesRequest

QueryClientStatesRequest is the request type for the Query/ClientStates RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination request

#

QueryClientStatesResponse

QueryClientStatesResponse is the response type for the Query/ClientStates RPC method.

Field Type Label Description client_states IdentifiedClientState repeated list of stored ClientStates of the chain. pagination cosmos.base.query.v1beta1.PageResponse

pagination response

#

QueryConsensusStateRequest

QueryConsensusStateRequest is the request type for the Query/ConsensusState RPC method. Besides the consensus state, it includes a proof and the height from which the proof was retrieved.

Field Type Label Description client_id string

client identifier revision_number uint64

consensus state revision number revision_height uint64

consensus state revision height latest_height bool

latest_height overrrides the height field and queries the latest stored ConsensusState

#

QueryConsensusStateResponse

QueryConsensusStateResponse is the response type for the Query/ConsensusState RPC method

Field Type Label Description consensus_state google.protobuf.Any

consensus state associated with the client identifier at the given height proof bytes

merkle proof of existence proof_height Height

height at which the proof was retrieved

#

QueryConsensusStatesRequest

QueryConsensusStatesRequest is the request type for the Query/ConsensusStates RPC method.

Field Type Label Description client_id string

client identifier pagination cosmos.base.query.v1beta1.PageRequest

pagination request

#

QueryConsensusStatesResponse

QueryConsensusStatesResponse is the response type for the Query/ConsensusStates RPC method

Field Type Label Description consensus_states ConsensusStateWithHeight repeated consensus states associated with the identifier pagination cosmos.base.query.v1beta1.PageResponse

pagination response end messagesend enumsend HasExtensions

#

Query

Query provides defines the gRPC querier service

Method Name Request Type Response Type Description HTTP Verb Endpoint ClientState QueryClientStateRequest QueryClientStateResponse ClientState queries an IBC light client. GET /ibc/core/client/v1beta1/client_states/{client_id} ClientStates QueryClientStatesRequest QueryClientStatesResponse ClientStates queries all the IBC light clients of a chain. GET /ibc/core/client/v1beta1/client_states ConsensusState QueryConsensusStateRequest QueryConsensusStateResponse ConsensusState queries a consensus state associated with a client state at a given height. GET /ibc/core/client/v1beta1/consensus_states/{client_id}/revision/{revision_number}/height/{revision_height} ConsensusStates QueryConsensusStatesRequest QueryConsensusStatesResponse ConsensusStates queries all the consensus state associated with a given client. GET /ibc/core/client/v1beta1/consensus_states/{client_id} ClientParams QueryClientParamsRequest QueryClientParamsResponse ClientParams queries all parameters of the ibc client. GET /ibc/client/v1beta1/params end services

Top

#

ibc/core/client/v1/tx.proto

#

MsgCreateClient

MsgCreateClient defines a message to create an IBC client

Field Type Label Description client_state google.protobuf.Any

light client state consensus_state google.protobuf.Any

consensus state associated with the client that corresponds to a given height. signer string

signer address

#

MsgCreateClientResponse

MsgCreateClientResponse defines the Msg/CreateClient response type.

#

MsgSubmitMisbehaviour

MsgSubmitMisbehaviour defines an sdk.Msg type that submits Evidence for light client misbehaviour.

Field Type Label Description client_id string

client unique identifier misbehaviour google.protobuf.Any

misbehaviour used for freezing the light client signer string

signer address

#

MsgSubmitMisbehaviourResponse

MsgSubmitMisbehaviourResponse defines the Msg/SubmitMisbehaviour response type.

#

MsgUpdateClient

MsgUpdateClient defines an sdk.Msg to update a IBC client state using the given header.

Field Type Label Description client_id string

client unique identifier header google.protobuf.Any

header to update the light client signer string

signer address

#

MsgUpdateClientResponse

MsgUpdateClientResponse defines the Msg/UpdateClient response type.

#

MsgUpgradeClient

MsgUpgradeClient defines an sdk.Msg to upgrade an IBC client to a new client state

Field Type Label Description client_id string

client unique identifier client_state google.protobuf.Any

upgraded client state consensus_state google.protobuf.Any

upgraded consensus state, only contains enough information to serve as a basis of trust in update logic proof_upgrade_client bytes

proof that old chain committed to new client proof_upgrade_consensus_state bytes

proof that old chain committed to new consensus state signer string

signer address

#

MsgUpgradeClientResponse

MsgUpgradeClientResponse defines the Msg/UpgradeClient response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the ibc/client Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint CreateClient MsgCreateClient MsgCreateClientResponse CreateClient defines a rpc handler method for MsgCreateClient. UpdateClient MsgUpdateClient MsgUpdateClientResponse UpdateClient defines a rpc handler method for MsgUpdateClient. UpgradeClient MsgUpgradeClient MsgUpgradeClientResponse UpgradeClient defines a rpc handler method for MsgUpgradeClient. SubmitMisbehaviour MsgSubmitMisbehaviour MsgSubmitMisbehaviourResponse SubmitMisbehaviour defines a rpc handler method for MsgSubmitMisbehaviour. end services

Top

#

ibc/core/commitment/v1/commitment.proto

#

MerklePath

MerklePath is the path used to verify commitment proofs, which can be an arbitrary structured object (defined by a commitment type). MerklePath is represented from root-to-leaf

Field Type Label Description key_path string repeated

#

MerklePrefix

MerklePrefix is merkle path prefixed to the key. The constructed key from the Path and the key will be append(Path.KeyPath, append(Path.KeyPrefix, key...))

Field Type Label Description key_prefix bytes

#

MerkleProof

MerkleProof is a wrapper type over a chain of CommitmentProofs. It demonstrates membership or non-membership for an element or set of elements, verifiable in conjunction with a known commitment root. Proofs should be succinct. MerkleProofs are ordered from leaf-to-root

Field Type Label Description proofs ics23.CommitmentProof repeated

#

MerkleRoot

MerkleRoot defines a merkle root hash. In the Cosmos SDK, the AppHash of a block header becomes the root.

Field Type Label Description hash bytes end messagesend enumsend HasExtensionsend services

Top

# #

ibc/core/connection/v1/connection.proto

#

ClientPaths

ClientPaths define all the connection paths for a client state.

Field Type Label Description paths string repeated list of connection paths

#

ConnectionEnd

ConnectionEnd defines a stateful object on a chain connected to another separate one. NOTE: there must only be 2 defined ConnectionEnds to establish a connection between two chains.

Field Type Label Description client_id string

client associated with this connection. versions Version repeated IBC version which can be utilised to determine encodings or protocols for channels or packets utilising this connection. state State

current state of the connection end. counterparty Counterparty

counterparty chain associated with this connection. delay_period uint64

delay period that must pass before a consensus state can be used for packet-verification NOTE: delay period logic is only implemented by some clients.

#

ConnectionPaths

ConnectionPaths define all the connection paths for a given client state.

Field Type Label Description client_id string

client state unique identifier paths string repeated list of connection paths

#

Counterparty

Counterparty defines the counterparty chain associated with a connection end.

Field Type Label Description client_id string

identifies the client on the counterparty chain associated with a given connection. connection_id string

identifies the connection end on the counterparty chain associated with a given connection. prefix ibc.core.commitment.v1.MerklePrefix

commitment merkle prefix of the counterparty chain.

#

IdentifiedConnection

IdentifiedConnection defines a connection with additional connection identifier field.

Field Type Label Description id string

connection identifier. client_id string

client associated with this connection. versions Version repeated IBC version which can be utilised to determine encodings or protocols for channels or packets utilising this connection state State

current state of the connection end. counterparty Counterparty

counterparty chain associated with this connection. delay_period uint64

delay period associated with this connection.

#

Version

Version defines the versioning scheme used to negotiate the IBC verison in the connection handshake.

Field Type Label Description identifier string

unique version identifier features string repeated list of features compatible with the specified identifier end messages

#

State

State defines if a connection is in one of the following states: INIT, TRYOPEN, OPEN or UNINITIALIZED.

Name Number Description STATE_UNINITIALIZED_UNSPECIFIED 0 Default State STATE_INIT 1 A connection end has just started the opening handshake. STATE_TRYOPEN 2 A connection end has acknowledged the handshake step on the counterparty chain. STATE_OPEN 3 A connection end has completed the handshake. end enumsend HasExtensionsend services

Top

#

ibc/core/connection/v1/genesis.proto

#

GenesisState

GenesisState defines the ibc connection submodule's genesis state.

Field Type Label Description connections IdentifiedConnection repeated client_connection_paths ConnectionPaths repeated next_connection_sequence uint64

the sequence for the next generated connection identifier end messagesend enumsend HasExtensionsend services

Top

#

ibc/core/connection/v1/query.proto

#

QueryClientConnectionsRequest

QueryClientConnectionsRequest is the request type for the Query/ClientConnections RPC method

Field Type Label Description client_id string

client identifier associated with a connection

#

QueryClientConnectionsResponse

QueryClientConnectionsResponse is the response type for the Query/ClientConnections RPC method

Field Type Label Description connection_paths string repeated slice of all the connection paths associated with a client. proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was generated

#

QueryConnectionClientStateRequest

QueryConnectionClientStateRequest is the request type for the Query/ConnectionClientState RPC method

Field Type Label Description connection_id string

connection identifier

#

QueryConnectionClientStateResponse

QueryConnectionClientStateResponse is the response type for the Query/ConnectionClientState RPC method

Field Type Label Description identified_client_state ibc.core.client.v1.IdentifiedClientState

client state associated with the channel proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryConnectionConsensusStateRequest

QueryConnectionConsensusStateRequest is the request type for the Query/ConnectionConsensusState RPC method

Field Type Label Description connection_id string

connection identifier revision_number uint64 revision_height uint64

#

QueryConnectionConsensusStateResponse

QueryConnectionConsensusStateResponse is the response type for the Query/ConnectionConsensusState RPC method

Field Type Label Description consensus_state google.protobuf.Any

consensus state associated with the channel client_idstring

client ID associated with the consensus state proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryConnectionRequest

QueryConnectionRequest is the request type for the Query/Connection RPC method

Field Type Label Description connection_id string

connection unique identifier

#

QueryConnectionResponse

QueryConnectionResponse is the response type for the Query/Connection RPC method. Besides the connection end, it includes a proof and the height from which the proof was retrieved.

Field Type Label Description connection ConnectionEnd

connection associated with the request identifier proofbytes

merkle proof of existence proof_height ibc.core.client.v1.Height

height at which the proof was retrieved

#

QueryConnectionsRequest

QueryConnectionsRequest is the request type for the Query/Connections RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

#

QueryConnectionsResponse

QueryConnectionsResponse is the response type for the Query/Connections RPC method.

Field Type Label Description connections IdentifiedConnection repeated list of stored connections of the chain. pagination cosmos.base.query.v1beta1.PageResponse

pagination response height ibc.core.client.v1.Height

query block height end messagesend enumsend HasExtensions

#

Query

Query provides defines the gRPC querier service

Method Name Request Type Response Type Description HTTP Verb Endpoint Connection QueryConnectionRequest QueryConnectionResponse Connection queries an IBC connection end. GET /ibc/core/connection/v1beta1/connections/{connection_id} Connections QueryConnectionsRequest QueryConnectionsResponse Connections queries all the IBC connections of a chain. GET /ibc/core/connection/v1beta1/connections ClientConnections QueryClientConnectionsRequest QueryClientConnectionsResponse ClientConnections queries the connection paths associated with a client state. GET /ibc/core/connection/v1beta1/client_connections/{client_id} ConnectionClientState QueryConnectionClientStateRequest QueryConnectionClientStateResponse ConnectionClientState queries the client state associated with the connection. GET /ibc/core/connection/v1beta1/connections/{connection_id}/client_state ConnectionConsensusState QueryConnectionConsensusStateRequest QueryConnectionConsensusStateResponse ConnectionConsensusState queries the consensus state associated with the connection. GET /ibc/core/connection/v1beta1/connections/{connection_id}/consensus_state/revision/{revision_number}/height/{revision_height} end services

Top

#

ibc/core/connection/v1/tx.proto

#

MsgConnectionOpenAck

MsgConnectionOpenAck defines a msg sent by a Relayer to Chain A to acknowledge the change of connection state to TRYOPEN on Chain B.

Field Type Label Description connection_id string counterparty_connection_id string version Version client_state google.protobuf.Any proof_height ibc.core.client.v1.Height proof_try bytes

proof of the initialization the connection on Chain B:UNITIALIZED -> TRYOPEN proof_clientbytes

proof of client state included in message proof_consensusbytes

proof of client consensus state consensus_heightibc.core.client.v1.Height signer string

#

MsgConnectionOpenAckResponse

MsgConnectionOpenAckResponse defines the Msg/ConnectionOpenAck response type.

#

MsgConnectionOpenConfirm

MsgConnectionOpenConfirm defines a msg sent by a Relayer to Chain B to acknowledge the change of connection state to OPEN on Chain A.

Field Type Label Description connection_id string proof_ack bytes

proof for the change of the connection state on Chain A:INIT -> OPEN proof_heightibc.core.client.v1.Height signer string

#

MsgConnectionOpenConfirmResponse

MsgConnectionOpenConfirmResponse defines the Msg/ConnectionOpenConfirm response type.

#

MsgConnectionOpenInit

MsgConnectionOpenInit defines the msg sent by an account on Chain A to initialize a connection with Chain B.

Field Type Label Description client_id string counterparty Counterparty version Version delay_period uint64 signer string

#

MsgConnectionOpenInitResponse

MsgConnectionOpenInitResponse defines the Msg/ConnectionOpenInit response type.

#

MsgConnectionOpenTry

MsgConnectionOpenTry defines a msg sent by a Relayer to try to open a connection on Chain B.

Field Type Label Description client_id string previous_connection_id string

in the case of crossing hello's, when both chains call OpenInit, we need the connection identifier of the previous connection in state INIT client_state google.protobuf.Any counterparty Counterparty delay_period uint64 counterparty_versions Version repeated proof_height ibc.core.client.v1.Height proof_init bytes

proof of the initialization the connection on Chain A:UNITIALIZED -> INIT proof_clientbytes

proof of client state included in message proof_consensusbytes

proof of client consensus state consensus_heightibc.core.client.v1.Height signer string

#

MsgConnectionOpenTryResponse

MsgConnectionOpenTryResponse defines the Msg/ConnectionOpenTry response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the ibc/connection Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint ConnectionOpenInitMsgConnectionOpenInit MsgConnectionOpenInitResponse ConnectionOpenInit defines a rpc handler method for MsgConnectionOpenInit. ConnectionOpenTry MsgConnectionOpenTry MsgConnectionOpenTryResponse ConnectionOpenTry defines a rpc handler method for MsgConnectionOpenTry. ConnectionOpenAck MsgConnectionOpenAck MsgConnectionOpenAckResponse ConnectionOpenAck defines a rpc handler method for MsgConnectionOpenAck. ConnectionOpenConfirm MsgConnectionOpenConfirm MsgConnectionOpenConfirmResponse ConnectionOpenConfirm defines a rpc handler method for MsgConnectionOpenConfirm. end services

Top

#

ibc/core/types/v1/genesis.proto

#

GenesisState

GenesisState defines the ibc module's genesis state.

Field Type Label Description client_genesis ibc.core.client.v1.GenesisState

ICS002 - Clients genesis state connection_genesis ibc.core.connection.v1.GenesisState

ICS003 - Connections genesis state channel_genesis ibc.core.channel.v1.GenesisState

ICS004 - Channel genesis state end messagesend enumsend HasExtensionsend services

Top

#

ibc/lightclients/localhost/v1/localhost.proto

#

ClientState

ClientState defines a loopback (localhost) client. It requires (read-only) access to keys outside the client prefix.

Field Type Label Description chain_id string

self chain ID height ibc.core.client.v1.Height

self latest block height end messagesend enumsend HasExtensionsend services

Top

#

ibc/lightclients/solomachine/v1/solomachine.proto

#

ChannelStateData

ChannelStateData returns the SignBytes data for channel state verification.

Field Type Label Description path bytes channel ibc.core.channel.v1.Channel

#

ClientState

ClientState defines a solo machine client that tracks the current consensus state and if the client is frozen.

Field Type Label Description sequence uint64

latest sequence of the client state frozen_sequence uint64

frozen sequence of the solo machine consensus_state ConsensusState allow_update_after_proposal bool

when set to true, will allow governance to update a solo machine client. The client will be unfrozen if it is frozen.

#

ClientStateData

ClientStateData returns the SignBytes data for client state verification.

Field Type Label Description path bytes client_state google.protobuf.Any

#

ConnectionStateData

ConnectionStateData returns the SignBytes data for connection state verification.

Field Type Label Description path bytes connection ibc.core.connection.v1.ConnectionEnd

#

ConsensusState

ConsensusState defines a solo machine consensus state. The sequence of a consensus state is contained in the "height" key used in storing the consensus state.

Field Type Label Description public_key google.protobuf.Any

public key of the solo machine diversifierstring

diversifier allows the same public key to be re-used across different solo machine clients (potentially on different chains) without being considered misbehaviour. timestamp uint64

#

ConsensusStateData

ConsensusStateData returns the SignBytes data for consensus state verification.

Field Type Label Description path bytes consensus_state google.protobuf.Any

#

Header

Header defines a solo machine consensus header

Field Type Label Description sequence uint64

sequence to update solo machine public key at timestampuint64 signature bytes new_public_key google.protobuf.Any new_diversifier string

#

HeaderData

HeaderData returns the SignBytes data for update verification.

Field Type Label Description new_pub_key google.protobuf.Any

header public key new_diversifier string

header diversifier

#

Misbehaviour

Misbehaviour defines misbehaviour for a solo machine which consists of a sequence and two signatures over different messages at that sequence.

Field Type Label Description client_id string sequence uint64 signature_one SignatureAndData signature_two SignatureAndData

#

NextSequenceRecvData

NextSequenceRecvData returns the SignBytes data for verification of the next sequence to be received.

Field Type Label Description path bytes next_seq_recv uint64

#

PacketAcknowledgementData

PacketAcknowledgementData returns the SignBytes data for acknowledgement verification.

Field Type Label Description path bytes acknowledgement bytes

#

PacketCommitmentData

PacketCommitmentData returns the SignBytes data for packet commitment verification.

Field Type Label Description path bytes commitment bytes

#

PacketReceiptAbsenceData

PacketReceiptAbsenceData returns the SignBytes data for packet receipt absence verification.

Field Type Label Description path bytes

#

SignBytes

SignBytes defines the signed bytes used for signature verification.

Field Type Label Description sequence uint64 timestamp uint64 diversifier string data_type DataType

type of the data used databytes

marshaled data

#

SignatureAndData

SignatureAndData contains a signature and the data signed over to create that signature.

Field Type Label Description signature bytes data_type DataType data bytes timestamp uint64

#

TimestampedSignatureData

TimestampedSignatureData contains the signature data and the timestamp of the signature.

Field Type Label Description signature_data bytes timestamp uint64 end messages

#

DataType

DataType defines the type of solo machine proof being created. This is done to preserve uniqueness of different data sign byte encodings.

Name Number Description DATA_TYPE_UNINITIALIZED_UNSPECIFIED 0 Default State DATA_TYPE_CLIENT_STATE 1 Data type for client state verification DATA_TYPE_CONSENSUS_STATE 2 Data type for consensus state verification DATA_TYPE_CONNECTION_STATE 3 Data type for connection state verification DATA_TYPE_CHANNEL_STATE 4 Data type for channel state verification DATA_TYPE_PACKET_COMMITMENT 5 Data type for packet commitment verification DATA_TYPE_PACKET_ACKNOWLEDGEMENT 6 Data type for packet acknowledgement verification DATA_TYPE_PACKET_RECEIPT_ABSENCE 7 Data type for packet receipt absence verification DATA_TYPE_NEXT_SEQUENCE_RECV 8 Data type for next sequence recv verification DATA_TYPE_HEADER 9 Data type for header verification end enumsend HasExtensionsend services

Top

#

ibc/lightclients/tendermint/v1/tendermint.proto

#

ClientState

ClientState from Tendermint tracks the current validator set, latest height, and a possible frozen height.

Field Type Label Description chain_id string trust_level Fraction trusting_period google.protobuf.Duration

duration of the period since the LastestTimestamp during which the submitted headers are valid for upgrade unbonding_period google.protobuf.Duration

duration of the staking unbonding period max_clock_driftgoogle.protobuf.Duration

defines how much new (untrusted) header's Time can drift into the future. frozen_heightibc.core.client.v1.Height

Block height when the client was frozen due to a misbehaviour latest_heightibc.core.client.v1.Height

Latest height the client was updated to proof_specsics23.ProofSpec repeated Proof specifications used in verifying counterparty state upgrade_path string repeated Path at which next upgraded client will be committed. Each element corresponds to the key for a single CommitmentProof in the chained proof. NOTE: ClientState must stored under{upgradePath}/{upgradeHeight}/clientState ConsensusState must be stored under{upgradepath}/{upgradeHeight}/consensusState For SDK chains using the default upgrade module, upgrade_path should be []string{"upgrade", "upgradedIBCState"}` allow_update_after_expiry bool

This flag, when set to true, will allow governance to recover a client which has expired allow_update_after_misbehavioubool

This flag, when set to true, will allow governance to unfreeze a client whose chain has experienced a misbehaviour event

#

ConsensusState

ConsensusState defines the consensus state from Tendermint.

Field Type Label Description timestamp google.protobuf.Timestamp

timestamp that corresponds to the block height in which the ConsensusState was stored. rootibc.core.commitment.v1.MerkleRoot

commitment root (i.e app hash) next_validators_hash bytes

#

Fraction

Fraction defines the protobuf message type for tmmath.Fraction that only supports positive values.

Field Type Label Description numerator uint64 denominator uint64

#

Header

Header defines the Tendermint client consensus Header. It encapsulates all the information necessary to update from a trusted Tendermint ConsensusState. The inclusion of TrustedHeight and TrustedValidators allows this update to process correctly, so long as the ConsensusState for the TrustedHeight exists, this removes race conditions among relayers The SignedHeader and ValidatorSet are the new untrusted update fields for the client. The TrustedHeight is the height of a stored ConsensusState on the client that will be used to verify the new untrusted header. The Trusted ConsensusState must be within the unbonding period of current time in order to correctly verify, and the TrustedValidators must hash to TrustedConsensusState.NextValidatorsHash since that is the last trusted validator set at the TrustedHeight.

Field Type Label Description signed_header tendermint.types.SignedHeader validator_set tendermint.types.ValidatorSet trusted_height ibc.core.client.v1.Height trusted_validators tendermint.types.ValidatorSet

#

Misbehaviour

Misbehaviour is a wrapper over two conflicting Headers that implements Misbehaviour interface expected by ICS-02

Field Type Label Description client_id string header_1 Header header_2 Header end messagesend enumsend HasExtensionsend services

Top

#

mint/mint.proto

#

Minter

Minter represents the minting state

Field Type Label Description last_update google.protobuf.Timestamp

time which the last update was made to the minter inflation_basestring

base inflation

#

Params

Params defines mint module's parameters

Field Type Label Description mint_denom string

type of coin to mint inflationstring

inflation rate end messagesend enumsend HasExtensionsend services

Top

#

mint/genesis.proto

#

GenesisState

GenesisState defines the mint module's genesis state

Field Type Label Description minter Minter params Params end messagesend enumsend HasExtensionsend services

Top

#

mint/query.proto

#

QueryParamsRequest

QueryParamsRequest is request type for the Query/Parameters RPC method

#

QueryParamsResponse

QueryParamsResponse is response type for the Query/Parameters RPC method

Field Type Label Description params Params res cosmos.base.query.v1beta1.PageResponse end messagesend enumsend HasExtensions

#

Query

Query creates service with guardian as rpc

Method Name Request Type Response Type Description HTTP Verb Endpoint ParamsQueryParamsRequest QueryParamsResponse Params queries the mint parameters GET /irishub/mint/params end services

Top

#

nft/nft.proto

#

BaseNFT

BaseNFT defines a non-fungible token

Field Type Label Description id string name string uri string data string owner string

#

Collection

Collection defines a type of collection

Field Type Label Description denom Denom nfts BaseNFT repeated

#

Denom

Denom defines a type of NFT

Field Type Label Description id string name string schema string creator string symbol string mint_restricted bool update_restricted bool

#

IDCollection

IDCollection defines a type of collection with specified ID

Field Type Label Description denom_id string token_ids string repeated

#

Owner

Owner defines a type of owner

Field Type Label Description address string id_collections IDCollection repeated end messagesend enumsend HasExtensionsend services

Top

#

nft/genesis.proto

#

GenesisState

GenesisState defines the NFT module's genesis state

Field Type Label Description collections Collection repeated end messagesend enumsend HasExtensionsend services

Top

#

nft/query.proto

#

QueryCollectionRequest

QueryCollectionRequest is the request type for the Query/Collection RPC method

Field Type Label Description denom_id string pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryCollectionResponse

QueryCollectionResponse is the response type for the Query/Collection RPC method

Field Type Label Description collection Collection pagination cosmos.base.query.v1beta1.PageResponse

#

QueryDenomRequest

QueryDenomRequest is the request type for the Query/Denom RPC method

Field Type Label Description denom_id string

#

QueryDenomResponse

QueryDenomResponse is the response type for the Query/Denom RPC method

Field Type Label Description denom Denom

#

QueryDenomsRequest

QueryDenomsRequest is the request type for the Query/Denoms RPC method

Field Type Label Description pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryDenomsResponse

QueryDenomsResponse is the response type for the Query/Denoms RPC method

Field Type Label Description denoms Denom repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QueryNFTRequest

QueryNFTRequest is the request type for the Query/NFT RPC method

Field Type Label Description denom_id string token_id string

#

QueryNFTResponse

QueryNFTResponse is the response type for the Query/NFT RPC method

Field Type Label Description nft BaseNFT

#

QueryOwnerRequest

QueryOwnerRequest is the request type for the Query/Owner RPC method

Field Type Label Description denom_id string owner string pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryOwnerResponse

QueryOwnerResponse is the response type for the Query/Owner RPC method

Field Type Label Description owner Owner pagination cosmos.base.query.v1beta1.PageResponse

#

QuerySupplyRequest

QuerySupplyRequest is the request type for the Query/HTLC RPC method

Field Type Label Description denom_id string owner string

#

QuerySupplyResponse

QuerySupplyResponse is the response type for the Query/Supply RPC method

Field Type Label Description amount uint64 end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service for NFT module

Method Name Request Type Response Type Description HTTP Verb Endpoint Supply QuerySupplyRequest QuerySupplyResponse Supply queries the total supply of a given denom or owner GET /irismod/nft/collections/{denom_id}/supply Owner QueryOwnerRequest QueryOwnerResponse Owner queries the NFTs of the specified owner GET /irismod/nft/nfts Collection QueryCollectionRequest QueryCollectionResponse Collection queries the NFTs of the specified denom GET /irismod/nft/collections/{denom_id} Denom QueryDenomRequest QueryDenomResponse Denom queries the definition of a given denom GET /irismod/nft/denoms/{denom_id} Denoms QueryDenomsRequest QueryDenomsResponse Denoms queries all the denoms GET /irismod/nft/denoms NFT QueryNFTRequest QueryNFTResponse NFT queries the NFT for the given denom and token ID GET /irismod/nft/nfts/{denom_id}/{token_id} end services

Top

#

nft/tx.proto

#

MsgBurnNFT

MsgBurnNFT defines an SDK message for burning a NFT.

Field Type Label Description id string denom_id string sender string

#

MsgBurnNFTResponse

MsgBurnNFTResponse defines the Msg/BurnNFT response type.

#

MsgEditNFT

MsgEditNFT defines an SDK message for editing a nft.

Field Type Label Description id string denom_id string name string uri string data string sender string

#

MsgEditNFTResponse

MsgEditNFTResponse defines the Msg/EditNFT response type.

#

MsgIssueDenom

MsgIssueDenom defines an SDK message for creating a new denom.

Field Type Label Description id string name string schema string sender string symbol string mint_restricted bool update_restricted bool

#

MsgIssueDenomResponse

MsgIssueDenomResponse defines the Msg/IssueDenom response type.

#

MsgMintNFT

MsgMintNFT defines an SDK message for creating a new NFT.

Field Type Label Description id string denom_id string name string uri string data string sender string recipient string

#

MsgMintNFTResponse

MsgMintNFTResponse defines the Msg/MintNFT response type.

#

MsgTransferDenom

MsgTransferDenom defines an SDK message for transferring an denom to recipient.

Field Type Label Description id string sender string recipient string

#

MsgTransferDenomResponse

MsgTransferDenomResponse defines the Msg/TransferDenom response type.

#

MsgTransferNFT

MsgTransferNFT defines an SDK message for transferring an NFT to recipient.

Field Type Label Description id string denom_id string name string uri string data string sender string recipient string

#

MsgTransferNFTResponse

MsgTransferNFTResponse defines the Msg/TransferNFT response type.

end messagesend enumsend HasExtensions

#

Msg

Msg defines the nft Msg service.

Method Name Request Type Response Type Description HTTP Verb Endpoint IssueDenom MsgIssueDenom MsgIssueDenomResponse IssueDenom defines a method for issue a denom. MintNFT MsgMintNFT MsgMintNFTResponse MintNFT defines a method for mint a new nft EditNFT MsgEditNFT MsgEditNFTResponse RefundHTLC defines a method for editing a nft. TransferNFT MsgTransferNFT MsgTransferNFTResponse TransferNFT defines a method for transferring a nft. BurnNFT MsgBurnNFT MsgBurnNFTResponse BurnNFT defines a method for burning a nft. TransferDenom MsgTransferDenom MsgTransferDenomResponse TransferDenom defines a method for transferring a denom. end services

Top

#

oracle/oracle.proto

#

Feed

Feed defines the feed standard

Field Type Label Description feed_name string description string aggregate_func string value_json_path string latest_history uint64 request_context_id string creator string

#

FeedValue

FeedValue defines the feed result standard

Field Type Label Description data string timestamp google.protobuf.Timestamp end messagesend enumsend HasExtensionsend services

Top

#

service/service.proto

#

CompactRequest

CompactRequest defines a standard for compact request

Field Type Label Description request_context_id string request_context_batch_counter uint64 provider string service_fee cosmos.base.v1beta1.Coin repeated request_height int64 expiration_height int64

#

Params

Params defines service module's parameters

Field Type Label Description max_request_timeout int64 min_deposit_multiple int64 min_deposit cosmos.base.v1beta1.Coin repeated service_fee_tax string slash_fraction string complaint_retrospect google.protobuf.Duration arbitration_time_limit google.protobuf.Duration tx_size_limit uint64 base_denom string restricted_service_fee_denom bool

#

Pricing

Pricing defines a standard for service pricing

Field Type Label Description price cosmos.base.v1beta1.Coin repeated promotions_by_time PromotionByTime repeated promotions_by_volume PromotionByVolume repeated

#

PromotionByTime

PromotionByTime defines a standard for service promotion by time

Field Type Label Description start_time google.protobuf.Timestamp end_time google.protobuf.Timestamp discount string

#

PromotionByVolume

PromotionByVolume defines a standard for service promotion by volume

Field Type Label Description volume uint64 discount string

#

Request

Request defines a standard for request

Field Type Label Description id string service_name string provider string consumer string input string service_fee cosmos.base.v1beta1.Coin repeated request_height int64 expiration_height int64 request_context_id string request_context_batch_counter uint64

#

RequestContext

RequestContext defines a standard for request context

Field Type Label Description service_name string providers string repeated consumer string input string service_fee_cap cosmos.base.v1beta1.Coin repeated module_name string timeout int64 repeated bool repeated_frequency uint64 repeated_total int64 batch_counter uint64 batch_request_count uint32 batch_response_count uint32 batch_response_threshold uint32 response_threshold uint32 batch_state RequestContextBatchState state RequestContextState

#

Response

Response defines a standard for response

Field Type Label Description provider string consumer string result string output string request_context_id string request_context_batch_counter uint64

#

ServiceBinding

ServiceBinding defines a standard for service binding

Field Type Label Description service_name string provider string deposit cosmos.base.v1beta1.Coin repeated pricing string qos uint64 options string available bool disabled_time google.protobuf.Timestamp owner string

#

ServiceDefinition

ServiceDefinition defines a standard for service definition

Field Type Label Description name string description string tags string repeated author string author_description string schemas string end messages

#

RequestContextBatchState

RequestContextBatchState is a type alias that represents a request batch status as a byte

Name Number Description BATCH_RUNNING 0 BATCH_RUNNING defines the running batch status. BATCH_COMPLETED 1 BATCH_COMPLETED defines the completed batch status.

#

RequestContextState

RequestContextState is a type alias that represents a request status as a byte

Name Number Description RUNNING 0 RUNNING defines the running request context status PAUSED 1 PAUSED defines the paused request context status COMPLETED 2 COMPLETED defines the completed request context status end enumsend HasExtensionsend services

Top

#

oracle/genesis.proto

#

FeedEntry

Field Type Label Description feed Feed state irismod.service.RequestContextState values FeedValue repeated

#

GenesisState

GenesisState defines the oracle module's genesis state

Field Type Label Description entries FeedEntry repeated end messagesend enumsend HasExtensionsend services

Top

# #

oracle/query.proto

#

FeedContext

FeedContext defines the feed context struct

Field Type Label Description feed Feed service_name string providers string repeated input string timeout int64 service_fee_cap cosmos.base.v1beta1.Coin repeated repeated_frequency uint64 response_threshold uint32 state irismod.service.RequestContextState

#

QueryFeedRequest

QueryFeedRequest is request type for the Query/Feed RPC method

Field Type Label Description feed_name string

#

QueryFeedResponse

QueryFeedResponse is response type for the Query/Feed RPC method

Field Type Label Description feed FeedContext

#

QueryFeedValueRequest

QueryFeedValueRequest is request type for the Query/FeedValue RPC method

Field Type Label Description feed_name string

#

QueryFeedValueResponse

QueryFeedValueResponse is response type for the Query/FeedValue RPC method

Field Type Label Description feed_values FeedValue repeated

#

QueryFeedsRequest

QueryFeedsRequest is request type for the Query/Feeds RPC method

Field Type Label Description state string pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request

#

QueryFeedsResponse

QueryFeedsResponse is response type for the Query/Feeds RPC method

Field Type Label Description feeds FeedContext repeated pagination cosmos.base.query.v1beta1.PageResponse

pagination defines an optional pagination for the request end messagesend enumsend HasExtensions

#

Query

Query creates service with guardian as rpc

Method Name Request Type Response Type Description HTTP Verb Endpoint FeedQueryFeedRequest QueryFeedResponse Feed queries the feed GET /irismod/oracle/feeds/{feed_name} Feeds QueryFeedsRequest QueryFeedsResponse Feeds queries the feed list GET /irismod/oracle/feeds FeedValue QueryFeedValueRequest QueryFeedValueResponse FeedValue queries the feed value GET /irismod/oracle/feeds/{feed_name}/values end services

Top

#

oracle/tx.proto

#

MsgCreateFeed

MsgCreateFeed defines an sdk.Msg type that supports creating a feed

Field Type Label Description feed_name string latest_history uint64 description string creator string service_name string providers string repeated input string timeout int64 service_fee_cap cosmos.base.v1beta1.Coin repeated repeated_frequency uint64 aggregate_func string value_json_path string response_threshold uint32

#

MsgCreateFeedResponse

MsgCreateFeedResponse defines the Msg/CreateFeed response type

#

MsgEditFeed

MsgEditFeed defines an sdk.Msg type that supports editing a feed

Field Type Label Description feed_name string description string latest_history uint64 providers string repeated timeout int64 service_fee_cap cosmos.base.v1beta1.Coin repeated repeated_frequency uint64 response_threshold uint32 creator string

#

MsgEditFeedResponse

MsgEditFeedResponse defines the Msg/EditFeed response type

#

MsgPauseFeed

MsgPauseFeed defines an sdk.Msg type that supports pausing a feed

Field Type Label Description feed_name string creator string

#

MsgPauseFeedResponse

MsgPauseFeedResponse defines the Msg/PauseFeed response type

#

MsgStartFeed

MsgPauseFeed defines an sdk.Msg type that supports stating a feed

Field Type Label Description feed_name string creator string

#

MsgStartFeedResponse

MsgStartFeedResponse defines the Msg/StartFeed response type

end messagesend enumsend HasExtensions

#

Msg

Msg defines the oracle Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint CreateFeedMsgCreateFeed MsgCreateFeedResponse CreateFeed defines a method for creating a new feed EditFeed MsgEditFeed MsgEditFeedResponse EditFeed defines a method for editing a feed StartFeed MsgStartFeed MsgStartFeedResponse StartFeed defines a method for starting a feed PauseFeedMsgPauseFeed MsgPauseFeedResponse PauseFeed defines a method for pausing a feed end services

Top

#

random/random.proto

#

Random

Random defines the feed standard

Field Type Label Description request_tx_hash string height int64 value string

#

Request

Request defines the random request standard

Field Type Label Description height int64 consumer string tx_hash string oracle bool service_fee_cap cosmos.base.v1beta1.Coin repeated service_context_id string end messagesend enumsend HasExtensionsend services

Top

#

random/genesis.proto

#

GenesisState

GenesisState defines the random module's genesis state

Field Type Label Description pending_random_requests GenesisState.PendingRandomRequestsEntry repeated

#

GenesisState.PendingRandomRequestsEntry

Field Type Label Description key string value Requests

#

Requests

Requests defines the random requests

Field Type Label Description requests Request repeated end messagesend enumsend HasExtensionsend services

Top

#

random/query.proto

#

QueryRandomRequest

QueryRandomRequest is request type for the Query/Random RPC method

Field Type Label Description req_id string

#

QueryRandomRequestQueueRequest

QueryRandomRequestQueueRequest is request type for the Query/RandomRequestQueue RPC method

Field Type Label Description height int64

#

QueryRandomRequestQueueResponse

QueryRandomRequestQueueResponse is response type for the Query/RandomRequestQueue RPC method

Field Type Label Description requests Request repeated

#

QueryRandomResponse

QueryParametersResponse is response type for the Query/Random RPC method

Field Type Label Description random Random end messagesend enumsend HasExtensions

#

Query

Query creates service with guardian as rpc

Method Name Request Type Response Type Description HTTP Verb Endpoint RandomQueryRandomRequest QueryRandomResponse Random queries the random result GET /irismod/random/randoms/{req_id} RandomRequestQueue QueryRandomRequestQueueRequest QueryRandomRequestQueueResponse RandomRequestQueue queries the random request queue GET /irismod/random/queue end services

Top

#

random/tx.proto

#

MsgRequestRandom

MsgRequestRandom defines an sdk.Msg type that supports requesting a random number

Field Type Label Description block_interval uint64 consumer string oracle bool service_fee_cap cosmos.base.v1beta1.Coin repeated

#

MsgRequestRandomResponse

MsgRequestRandomResponse defines the Msg/RequestRandom response type

end messagesend enumsend HasExtensions

#

Msg

Msg defines the oracle Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint RequestRandom MsgRequestRandom MsgRequestRandomResponse RequestRandom defines a method for requesting a new random number end services

Top

#

record/record.proto

#

Content

Content defines the detailed information for a record

Field Type Label Description digest string digest_algo string uri string meta string

#

Record

Record defines the record standard

Field Type Label Description tx_hash string contents Content repeated creator string end messagesend enumsend HasExtensionsend services

Top

#

record/genesis.proto

#

GenesisState

GenesisState defines the record module's genesis state

Field Type Label Description records Record repeated end messagesend enumsend HasExtensionsend services

Top

#

record/query.proto

#

QueryRecordRequest

QueryRecordRequest is the request type for the Query/Record RPC method

Field Type Label Description record_id string

#

QueryRecordResponse

QueryRecordResponse is the response type for the Query/Record RPC method

Field Type Label Description record Record end messagesend enumsend HasExtensions

#

Query

Query defines the gRPC querier service for record module

Method Name Request Type Response Type Description HTTP Verb Endpoint Record QueryRecordRequest QueryRecordResponse Record queries the record by the given record ID GET /irismod/record/records/{record_id} end services

Top

#

record/tx.proto

#

MsgCreateRecord

MsgCreateRecord defines an SDK message for creating a new record

Field Type Label Description contents Content repeated creator string

#

MsgCreateRecordResponse

MsgCreateRecordResponse defines the Msg/CreateRecord response type

Field Type Label Description id string end messagesend enumsend HasExtensions

#

Msg

Msg defines the oracle Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint CreateRecord MsgCreateRecord MsgCreateRecordResponse CreateRecord defines a method for creating a new record end services

Top

#

service/genesis.proto

#

GenesisState

GenesisState defines the service module's genesis state

Field Type Label Description params Params definitions ServiceDefinition repeated bindings ServiceBinding repeated withdraw_addresses GenesisState.WithdrawAddressesEntry repeated request_contexts GenesisState.RequestContextsEntry repeated

#

GenesisState.RequestContextsEntry

Field Type Label Description key string value RequestContext

#

GenesisState.WithdrawAddressesEntry

Field Type Label Description key string value string end messagesend enumsend HasExtensionsend services

Top

#

service/query.proto

#

QueryBindingRequest

QueryBindingRequest is request type for the Query/Binding RPC method

Field Type Label Description service_name string provider string

#

QueryBindingResponse

QueryDefinitionResponse is response type for the Query/Binding RPC method

Field Type Label Description service_binding ServiceBinding

#

QueryBindingsRequest

QueryBindingsRequest is request type for the Query/Bindings RPC method

Field Type Label Description service_name string owner string pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request

#

QueryBindingsResponse

QueryDefinitionsResponse is response type for the Query/Bindings RPC method

Field Type Label Description service_bindings ServiceBinding repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QueryDefinitionRequest

QueryDefinitionRequest is request type for the Query/Definition RPC method

Field Type Label Description service_name string

#

QueryDefinitionResponse

QueryDefinitionResponse is response type for the Query/Definition RPC method

Field Type Label Description service_definition ServiceDefinition

#

QueryEarnedFeesRequest

QueryEarnedFeesRequest is request type for the Query/EarnedFees RPC method

Field Type Label Description provider string

#

QueryEarnedFeesResponse

QueryEarnedFeesResponse is response type for the Query/EarnedFees RPC method

Field Type Label Description fees cosmos.base.v1beta1.Coin repeated

#

QueryParamsRequest

QueryParametersRequest is request type for the Query/Parameters RPC method

#

QueryParamsResponse

QueryParametersResponse is response type for the Query/Parameters RPC method

Field Type Label Description params Params res cosmos.base.query.v1beta1.PageResponse

#

QueryRequestContextRequest

QueryRequestContextRequest is request type for the Query/RequestContext RPC method

Field Type Label Description request_context_id string

#

QueryRequestContextResponse

QueryRequestContextResponse is response type for the Query/RequestContext RPC method

Field Type Label Description request_context RequestContext

#

QueryRequestRequest

QueryRequestRequest is request type for the Query/Request RPC method

Field Type Label Description request_id string

#

QueryRequestResponse

QueryRequestResponse is response type for the Query/Request RPC method

Field Type Label Description request Request

#

QueryRequestsByReqCtxRequest

QueryRequestsByReqCtxRequest is request type for the Query/RequestsByReqCtx RPC method

Field Type Label Description request_context_id string batch_counter uint64 pagination cosmos.base.query.v1beta1.PageRequest

#

QueryRequestsByReqCtxResponse

QueryRequestsByReqCtxResponse is response type for the Query/RequestsByReqCtx RPC method

Field Type Label Description requests Request repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QueryRequestsRequest

QueryRequestsRequest is request type for the Query/Requests RPC method

Field Type Label Description service_name string provider string pagination cosmos.base.query.v1beta1.PageRequest

#

QueryRequestsResponse

QueryRequestsResponse is response type for the Query/Requests RPC method

Field Type Label Description requests Request repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QueryResponseRequest

QueryResponseRequest is request type for the Query/Response RPC method

Field Type Label Description request_id string

#

QueryResponseResponse

QueryResponseResponse is response type for the Query/Response RPC method

Field Type Label Description response Response

#

QueryResponsesRequest

QueryResponsesRequest is request type for the Query/Responses RPC method

Field Type Label Description request_context_id string batch_counter uint64 pagination cosmos.base.query.v1beta1.PageRequest

#

QueryResponsesResponse

QueryResponsesResponse is response type for the Query/Responses RPC method

Field Type Label Description responses Response repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QuerySchemaRequest

QuerySchemaRequest is request type for the Query/Schema RPC method

Field Type Label Description schema_name string

#

QuerySchemaResponse

QuerySchemaResponse is response type for the Query/Schema RPC method

Field Type Label Description schema string

#

QueryWithdrawAddressRequest

QueryWithdrawAddressRequest is request type for the Query/WithdrawAddress RPC method

Field Type Label Description owner string

#

QueryWithdrawAddressResponse

QueryWithdrawAddressResponse is response type for the Query/WithdrawAddress RPC method

Field Type Label Description withdraw_address string end messagesend enumsend HasExtensions

#

Query

Query creates service with iservice as rpc

Method Name Request Type Response Type Description HTTP Verb Endpoint Definition QueryDefinitionRequest QueryDefinitionResponse Definition returns service definition GET /irismod/service/definitions/{service_name} Binding QueryBindingRequest QueryBindingResponse Binding returns service Binding with service name and provider GET /irismod/service/bindings/{service_name}/{provider} Bindings QueryBindingsRequest QueryBindingsResponse Bindings returns all service Bindings with service name and owner GET /irismod/service/bindings/{service_name} WithdrawAddress QueryWithdrawAddressRequest QueryWithdrawAddressResponse WithdrawAddress returns the withdraw address of the binding owner GET /irismod/service/owners/{owner}/withdraw-address RequestContext QueryRequestContextRequest QueryRequestContextResponse RequestContext returns the request context GET /irismod/service/contexts/{request_context_id} Request QueryRequestRequest QueryRequestResponse Request returns the request GET /irismod/service/requests/{request_id} Requests QueryRequestsRequest QueryRequestsResponse Request returns all requests of one service with provider GET /irismod/service/requests/{service_name}/{provider} RequestsByReqCtx QueryRequestsByReqCtxRequest QueryRequestsByReqCtxResponse RequestsByReqCtx returns all requests of one service call batch GET /irismod/service/requests/{request_context_id}/{batch_counter} Response QueryResponseRequest QueryResponseResponse Response returns the response of request GET /irismod/service/responses/{request_id} Responses QueryResponsesRequest QueryResponsesResponse Responses returns all responses of one service call batch GET /irismod/service/responses/{request_context_id}/{batch_counter} EarnedFees QueryEarnedFeesRequest QueryEarnedFeesResponse EarnedFees returns the earned service fee of one provider GET /irismod/service/fees/{provider} Schema QuerySchemaRequest QuerySchemaResponse Schema returns the schema GET /irismod/service/schemas/{schema_name} ParamsQueryParamsRequest QueryParamsResponse Params queries the service parameters GET /irismod/service/params end services

Top

#

service/tx.proto

#

MsgBindService

MsgBindService defines an SDK message for binding to an existing service

Field Type Label Description service_name string provider string deposit cosmos.base.v1beta1.Coin repeated pricing string qos uint64 options string owner string

#

MsgBindServiceResponse

MsgBindServiceResponse defines the Msg/BindService response type

#

MsgCallService

MsgCallService defines an SDK message to initiate a service request context

Field Type Label Description service_name string providers string repeated consumer string input string service_fee_cap cosmos.base.v1beta1.Coin repeated timeout int64 repeated bool repeated_frequency uint64 repeated_total int64

#

MsgCallServiceResponse

MsgCallServiceResponse defines the Msg/CallService response type

Field Type Label Description request_context_id string

#

MsgDefineService

MsgDefineService defines an SDK message for defining a new service

Field Type Label Description name string description string tags string repeated author string author_description string schemas string

#

MsgDefineServiceResponse

MsgDefineServiceResponse defines the Msg/DefineService response type

#

MsgDisableServiceBinding

MsgDisableServiceBinding defines an SDK message to disable a service binding

Field Type Label Description service_name string provider string owner string

#

MsgDisableServiceBindingResponse

MsgDisableServiceBindingResponse defines the Msg/DisableServiceBinding response type

#

MsgEnableServiceBinding

MsgEnableServiceBinding defines an SDK message to enable a service binding

Field Type Label Description service_name string provider string deposit cosmos.base.v1beta1.Coin repeated owner string

#

MsgEnableServiceBindingResponse

MsgEnableServiceBindingResponse defines the Msg/EnableServiceBinding response type

#

MsgKillRequestContext

MsgKillRequestContext defines an SDK message to terminate a service request

Field Type Label Description request_context_id string consumer string

#

MsgKillRequestContextResponse

MsgKillRequestContextResponse defines the Msg/KillRequestContext response type

#

MsgPauseRequestContext

MsgPauseRequestContext defines an SDK message to pause a service request

Field Type Label Description request_context_id string consumer string

#

MsgPauseRequestContextResponse

MsgPauseRequestContextResponse defines the Msg/PauseRequestContext response type

#

MsgRefundServiceDeposit

MsgRefundServiceDeposit defines an SDK message to refund deposit from a service binding

Field Type Label Description service_name string provider string owner string

#

MsgRefundServiceDepositResponse

MsgRefundServiceDepositResponse defines the Msg/RefundServiceDeposit response type

#

MsgRespondService

MsgRespondService defines an SDK message to respond a service request

Field Type Label Description request_id string provider string result string output string

#

MsgRespondServiceResponse

MsgRespondServiceResponse defines the Msg/RespondService response type

#

MsgSetWithdrawAddress

MsgSetWithdrawAddress defines an SDK message to set the withdrawal address for a provider

Field Type Label Description owner string withdraw_address string

#

MsgSetWithdrawAddressResponse

MsgSetWithdrawAddressResponse defines the Msg/SetWithdrawAddress response type

#

MsgStartRequestContext

MsgStartRequestContext defines an SDK message to resume a service request

Field Type Label Description request_context_id string consumer string

#

MsgStartRequestContextResponse

MsgStartRequestContextResponse defines the Msg/StartRequestContext response type

#

MsgUpdateRequestContext

MsgUpdateRequestContext defines an SDK message to update a service request context

Field Type Label Description request_context_id string providers string repeated consumer string service_fee_cap cosmos.base.v1beta1.Coin repeated timeout int64 repeated_frequency uint64 repeated_total int64

#

MsgUpdateRequestContextResponse

MsgUpdateRequestContextResponse defines the Msg/UpdateRequestContext response type

#

MsgUpdateServiceBinding

MsgUpdateServiceBinding defines an SDK message for updating an existing service binding

Field Type Label Description service_name string provider string deposit cosmos.base.v1beta1.Coin repeated pricing string qos uint64 options string owner string

#

MsgUpdateServiceBindingResponse

MsgUpdateServiceBindingResponse defines the Msg/UpdateServiceBinding response type

#

MsgWithdrawEarnedFees

MsgWithdrawEarnedFees defines an SDK message to withdraw the fees earned by the provider or owner

Field Type Label Description owner string provider string

#

MsgWithdrawEarnedFeesResponse

MsgWithdrawEarnedFeesResponse defines the Msg/WithdrawEarnedFees response type

end messagesend enumsend HasExtensions

#

Msg

Msg defines the oracle Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint DefineService MsgDefineService MsgDefineServiceResponse DefineService defines a method for define a new service BindService MsgBindService MsgBindServiceResponse BindService defines a method for bind a server UpdateServiceBinding MsgUpdateServiceBinding MsgUpdateServiceBindingResponse UpdateServiceBinding defines a method for update a service binding SetWithdrawAddress MsgSetWithdrawAddress MsgSetWithdrawAddressResponse SetWithdrawAddress defines a method for setting a withdraw address EnableServiceBinding MsgEnableServiceBinding MsgEnableServiceBindingResponse EnableServiceBinding defines a method for enabling a service binding DisableServiceBinding MsgDisableServiceBinding MsgDisableServiceBindingResponse DisableServiceBinding defines a method for disabling a service binding RefundServiceDeposit MsgRefundServiceDeposit MsgRefundServiceDepositResponse RefundServiceDeposit defines a method for refunding a fee CallService MsgCallService MsgCallServiceResponse CallService defines a method for calling a service RespondService MsgRespondService MsgRespondServiceResponse RespondService defines a method for responding a service PauseRequestContext MsgPauseRequestContext MsgPauseRequestContextResponse PauseRequestContext defines a method for pausing a service call StartRequestContext MsgStartRequestContext MsgStartRequestContextResponse StartRequestContext defines a method for starting a service call KillRequestContext MsgKillRequestContext MsgKillRequestContextResponse KillRequestContext defines a method for killing a service call UpdateRequestContext MsgUpdateRequestContext MsgUpdateRequestContextResponse UpdateRequestContext defines a method for updating a service call WithdrawEarnedFees MsgWithdrawEarnedFees MsgWithdrawEarnedFeesResponse WithdrawEarnedFees defines a method for Withdrawing a earned fees end services

Top

# #

token/token.proto

#

Params

Params defines token module's parameters

Field Type Label Description token_tax_rate string issue_token_base_fee cosmos.base.v1beta1.Coin mint_token_fee_ratio string

#

Token

Token defines a standard for the fungible token

Field Type Label Description symbol string name string scale uint32 min_unit string initial_supply uint64 max_supply uint64 mintable bool owner string end messagesend enumsend HasExtensionsend services

Top

# #

token/genesis.proto

#

GenesisState

GenesisState defines the token module's genesis state

Field Type Label Description params Params tokens Token repeated burned_coins cosmos.base.v1beta1.Coin repeated end messagesend enumsend HasExtensionsend services

Top

#

token/query.proto

#

QueryFeesRequest

QueryFeesRequest is request type for the Query/Fees RPC method

Field Type Label Description symbol string

#

QueryFeesResponse

QueryFeesResponse is response type for the Query/Fees RPC method

Field Type Label Description exist bool issue_fee cosmos.base.v1beta1.Coin mint_fee cosmos.base.v1beta1.Coin

#

QueryParamsRequest

QueryParametersRequest is request type for the Query/Parameters RPC method

#

QueryParamsResponse

QueryParametersResponse is response type for the Query/Parameters RPC method

Field Type Label Description params Params res cosmos.base.query.v1beta1.PageResponse

#

QueryTokenRequest

QueryTokenRequest is request type for the Query/Token RPC method

Field Type Label Description denom string

#

QueryTokenResponse

QueryTokenResponse is response type for the Query/Token RPC method

Field Type Label Description Token google.protobuf.Any

#

QueryTokensRequest

QueryTokensRequest is request type for the Query/Tokens RPC method

Field Type Label Description owner string pagination cosmos.base.query.v1beta1.PageRequest

pagination defines an optional pagination for the request.

#

QueryTokensResponse

QueryTokensResponse is response type for the Query/Tokens RPC method

Field Type Label Description Tokens google.protobuf.Any repeated pagination cosmos.base.query.v1beta1.PageResponse

#

QueryTotalBurnRequest

QueryTokenRequest is request type for the Query/TotalBurn RPC method

#

QueryTotalBurnResponse

QueryTotalBurnResponse is response type for the Query/TotalBurn RPC method

Field Type Label Description burned_coins cosmos.base.v1beta1.Coin repeated end messagesend enumsend HasExtensions

#

Query

Query creates service with token as RPC

Method Name Request Type Response Type Description HTTP Verb Endpoint TokenQueryTokenRequest QueryTokenResponse Token returns token with token name GET /irismod/token/tokens/{denom} Tokens QueryTokensRequest QueryTokensResponse Tokens returns the token list GET /irismod/token/tokens Fees QueryFeesRequest QueryFeesResponse Fees returns the fees to issue or mint a token GET /irismod/token/tokens/{symbol}/fees Params QueryParamsRequest QueryParamsResponse Params queries the token parameters GET /irismod/token/params TotalBurn QueryTotalBurnRequest QueryTotalBurnResponse TotalBurn queries all the burnt coins GET /irismod/token/total_burn end services

Top

#

token/tx.proto

#

MsgBurnToken

MsgBurnToken defines an SDK message for burning some tokens

Field Type Label Description symbol string amount uint64 sender string

#

MsgBurnTokenResponse

MsgBurnTokenResponse defines the Msg/BurnToken response type

#

MsgEditToken

MsgEditToken defines an SDK message for editing a new token

Field Type Label Description symbol string name string max_supply uint64 mintable string owner string

#

MsgEditTokenResponse

MsgEditTokenResponse defines the Msg/EditToken response type

#

MsgIssueToken

MsgIssueToken defines an SDK message for issuing a new token

Field Type Label Description symbol string name string scale uint32 min_unit string initial_supply uint64 max_supply uint64 mintable bool owner string

#

MsgIssueTokenResponse

MsgIssueTokenResponse defines the Msg/IssueToken response type

#

MsgMintToken

MsgMintToken defines an SDK message for minting a new token

Field Type Label Description symbol string amount uint64 to string owner string

#

MsgMintTokenResponse

MsgMintTokenResponse defines the Msg/MintToken response type

#

MsgTransferTokenOwner

MsgTransferTokenOwner defines an SDK message for transferring the token owner

Field Type Label Description src_owner string dst_owner string symbol string

#

MsgTransferTokenOwnerResponse

MsgTransferTokenOwnerResponse defines the Msg/TransferTokenOwner response type

end messagesend enumsend HasExtensions

#

Msg

Msg defines the oracle Msg service

Method Name Request Type Response Type Description HTTP Verb Endpoint IssueToken MsgIssueToken MsgIssueTokenResponse IssueToken defines a method for issuing a new token EditToken MsgEditToken MsgEditTokenResponse EditToken defines a method for editing a token MintToken MsgMintToken MsgMintTokenResponse MintToken defines a method for minting some tokens BurnToken MsgBurnToken MsgBurnTokenResponse BurnToken defines a method for burning some tokens TransferTokenOwner MsgTransferTokenOwner MsgTransferTokenOwnerResponse TransferTokenOwner defines a method for minting some tokens end services

#

Scalar Value Types

.proto Type Notes C++ Java Python Go C# PHP Rubydouble

double double float float64 double float Floatfloat

float float float float32 float float Floatint32 Uses variable-length encoding. Inefficient for encoding negative numbers – if your field is likely to have negative values, use sint32 instead. int32 int int int32 int integer Bignum or Fixnum (as required) int64 Uses variable-length encoding. Inefficient for encoding negative numbers – if your field is likely to have negative values, use sint64 instead. int64 long int/long int64 long integer/string Bignum uint32 Uses variable-length encoding. uint32 int int/long uint32 uint integer Bignum or Fixnum (as required) uint64 Uses variable-length encoding. uint64 long int/long uint64 ulong integer/string Bignum or Fixnum (as required) sint32 Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. int32 int int int32 int integer Bignum or Fixnum (as required) sint64 Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s. int64 long int/long int64 long integer/string Bignum fixed32 Always four bytes. More efficient than uint32 if values are often greater than 2^28. uint32 int int uint32 uint integer Bignum or Fixnum (as required) fixed64 Always eight bytes. More efficient than uint64 if values are often greater than 2^56. uint64 long int/long uint64 ulong integer/string Bignum sfixed32 Always four bytes. int32 int int int32 int integer Bignum or Fixnum (as required) sfixed64 Always eight bytes. int64 long int/long int64 long integer/string Bignum bool

bool boolean boolean bool bool boolean TrueClass/FalseClassstring A string must always contain UTF-8 encoded or 7-bit ASCII text. string String str/unicode string string string String (UTF-8) bytes May contain any arbitrary sequence of bytes. string ByteString str []byte ByteString string String (ASCII-8BIT)