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Introduction

IRISHub v2.0 changed the generative structure of the entire account system from `auth.BaseAccountProto` to `ethermint.ProtoAccount`, resulting in incompatibility of newly created accounts;

Note: Accounts before the v2.0 upgrade will not be affected and can still be used normally

The following content takes nyancat testnet as an example :

For accounts before the v2.0 upgrade, the query structure through LCD is as follows:

<https://lcd.nyancat.irisnet.org/cosmos/auth/v1beta1/accounts/iaa1e0rx87mdj79zejewuc4jg7ql9ud2286g2us8f2>

```
{ "account" : { "@type" : "/cosmos.auth.v1beta1.BaseAccount" , "address" :  
"iaa1e0rx87mdj79zejewuc4jg7ql9ud2286g2us8f2" , "pub_key" : { "@type" : "/cosmos.crypto.secp256k1.PubKey" , "key" :  
"AiOFJ3Jclq/8y3xV85ALNFuA7FJo1IMoTxYoB3ddMrMr" } , "account_number" : "1251" , "sequence" : "12983" } } For  
accounts upgraded in v2.0, the query structure through LCD is as follows:
```

<https://lcd.nyancat.irisnet.org/cosmos/auth/v1beta1/accounts/iaa1g4uak38a8fhkg5v5qky3fc9g6h50yrdcn7waug>

```
{ "account" : { "@type" : "/ethermint.types.v1.EthAccount" , "base_account" : { "address" :  
"iaa1g4uak38a8fhkg5v5qky3fc9g6h50yrdcn7waug" , "pub_key" : { "@type" : "/ethermint.crypto.v1.ethsecp256k1.PubKey" ,  
"key" : "AhHKT0xpnrOmpikkd1IEPxiEHG4ngltq06KLhwU2UQHO" } , "account_number" : "5564" , "sequence" : "6" } ,  
"code_hash" : "0xc5d2460186f7233c927e7db2dcc703c0e500b653ca82273b7bfad8045d85a470" } }
```

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Using Proto

A new type needs to be registered, and the type structure is here: <https://github.com/bianjieai/ethermint/blob/v0.20.0-irishub-1/proto/ethermint/types/v1/account.proto>

When the query structure is `/ethermint.types.v1.EthAccount` , use the new structure analysis;

When the query structure is `/cosmos.auth.v1beta1.BaseAccount` , use the old structure analysis;

You can refer to the `core-sdk-go` written by the irisnet team. The relevant hash is at: <https://github.com/irisnet/core-sdk-go/commit/68ed671727e057edb185935c42710f8777dab62f>

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Using LCD

When parsing, please make compatibility according to the required type;

If the type is `/cosmos.auth.v1beta1.BaseAccount` , use the old structure analysis;

If the type is `/ethermint.types.v1.EthAccount` , use the new structure analysis;