#### Secret Network v1.4 (CosmWasm 1.0)

CosmWasm 1.0 Breaking Changes

Address API Changes

- HumanAddr
- · has been deprecated in favour of simplyString
- . It never added any significant safety bonus overString
- · and was just a marker type. The new typeAddr
- was created to hold validated addresses. Those can be created viaAddr::unchecked
- Api::addr validate
- ,Api::addr\_humanize
- · and JSON deserialization. In order to maintain type safety, deserialization intoAddr
- must only be done from trusted sources like a contract's state or a query response. User inputs must be deserialized intoString
- .
- deps.api.human\_address(&CanonicalAddr)
- =>deps.api.addr\_humanize(&CanonicalAddr)
- deps.api.canonical address(&HumanAddr)
- =>deps.api.addr\_canonicalize(&str)

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Extern Method Interface Changes

Use the new entry point system. From lib.rs remove

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Copy

### [cfg(target\_arch="wasm32")]

cosmwasm\_std::create\_entry\_points!(contract);

// or

### [cfg(target\_arch="wasm32")]

cosmwasm\_std::create\_entry\_points\_with\_migration!(contract);

•••

Then add the macro attribute#[cfg\_attr(not(feature = "library"), entry\_point)] to your contract.rs as follows:

- init
- 。Env
- split intoEnv
- •
- andMessageInfo
- InitResponse
- andInitResult
- deprecated, please useResponse
- function name changed frominit
- •

toinstantiate

• \*

Copy pubfninit( deps:&mutExtern, env:Env, msg:InitMsg, )->StdResult {

// into

#### [cfg\_attr(not(feature="library"), entry\_point)]

 $pubfininstantiate(\ deps: DepsMut,\ env: Env,\ info: MessageInfo,\ msg: InstantiateMsg,\ ) -> StdResult\ \{ (a,b,c), (a$ 

...

- handle
- •

```
Env
```

- split intoEnv
- andMessageInfo
- HandleResponse
- andHandleResult
- deprecated, please useResponse
- function name changed fromhandle
- toexecute

•

Copy pubfnhandle( deps:&mutExtern, env:Env, msg:HandleMsg, )->HandleResult{ // into

# [cfg\_attr(not(feature="library"), entry\_point)]

 $pubfnexecute (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \} \} = \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \} \} = \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \} \} = \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \} \} = \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \} \} = \{ (deps: DepsMut, env: Env, info: Message Info, msg: Execute Msg) -> StdResult \} \} = \{ (deps: DepsMut, env: Env, env: Env$ 

...

- query
- new argumentEnv
  - added
- \*

Copy pubfinquery( deps:&Extern, msg:QueryMsg, )->StdResult {
// into

# [cfg\_attr(not(feature="library"), entry\_point)]

pubfnquery(deps:Deps, \_env:Env, msg:QueryMsg)->StdResult {

migrate

- • Env
- - split intoEnv
- andMessageInfo
- MigrateResponse
- andMigrateResult
- deprecated, please useResponse

•

•••

Copy pubfnmigrate( deps:&mutExtern, env:Env, msg:MigrateMsg, )->MigrateResult{ // into

# [cfg\_attr(not(feature="library"), entry\_point)]

pubfnmigrate(\_deps:DepsMut, \_env:Env, \_msg:MigrateMsg)->StdResult {

Response no longer be built using a structure literal

Response can no longer be built using a struct literal. Please useResponse::new as well as relevanbuilder-style setters to set the data. This is a step toward better API stability. Copy letsend=BankMsg::Send{ to address, amount }; -Ok(Response{ -messages:vec![SubMsg::new(send)], -attributes:vec![attr("action","burn"),attr("payout", msg.payout)], -events:vec![], data:Some(data\_msg.into()), -}) +Ok(Response::new() +.add\_message(send) +.add\_attribute("action", "burn") +.add\_attribute("payout", msg.payout) +.set\_data(data\_msg)) Sub-messages & Reply The sub-messages feature can be used to get the response data or events from the executed contract. For example, if a contract wants to get the address of the child contract which is instantiated from the contract. The contract can sendMsgInstantiate as sub-messages withReplyOn::Success option likehttps://github.com/terraswap/ter L142 . Then the reply is only executed when the instantiate is successful with the instantiate response data.https://github.com/terraswap/terraswap/blob/7cf47f5e811fe0c4643a7cd09500702c1e7f3a6b/contracts/terraswap\_factory/src/contract.rs#L148-Storage Migration Rename the typeExtern toDeps, and radically simplify theinit/handle/migrate/query entrypoints. Rather than&mut Extern, useDepsMut. And instead of & Extern, use Deps. If you ever pass eg.fo(api: A) around, you must now use dynamic trait pointers: foo(api: & dyn Api). Here is the quick search-replace guide on how to fix contract.rs: In production (non-test) code: ... Copy =>`` &mutExtern=>DepsMut &Extern=>Deps &mutdeps.storage=>deps.storagewherepassing into state.rs helpers &deps.storage=>deps.storagewherepassing into state.rs helpers Onthe top, removeusecosmwasm\_std:: {Api,Extern,Querier,Storage}.Addusecosmwasm\_std::{Deps,DepsMut}. In test code only: Copy &mutdeps,=>deps.as\_mut(), &deps,=>deps.as\_ref(), Youmay have to addusecosmwasm\_std::{Storage}ifthe compile complains about thetrait If you use cosmwasm-storage, in state.rs: Copy =><S:ReadonlyStorage>=> < &mutS=>&mutdynStorage &S=>&dynStorage Ifyou have any references toReadonlyStorageleft after the above, please replace them withStorage Advanced Storage We can still usesingleton andbucket. But if you want more advanced storage access, you can usecw-storage-plus with following migration steps. · cowmasm storage::Singleton ->cw stroage plus::Item Removeread\_\* andstore\_\* functions DefineItem · as following (must prepend the length of key)

Copy

// read

pub const CONFIG: Item = Item::new("\u{0}\u{6}config");

CONFIG.save(deps.storage, &config)?;

```
• let mut config: Config = CONFIG.load(deps.storage)?;
     cosmwasm_storage::Bucket
   .
     ->cw_storage_plus::Map
        Removeread_*
        andstore_*
        functions

    DefineMap

        · as following

    Copy

   • pub const PAIRS: Map = Map::new("pair_info");
   • PAIRS.save(deps.storage, &addr, &pair_info)?;
   // read
   • let pair_info: PairInfoRaw = PAIRS.load(deps.storage, &addr)?;
Raw Querier migration
The core now just returns raw bytes without json encoding, so we can receive the query response as what the data was stored.
Copy -letres:Binary=deps.querier.query(&QueryRequest::Wasm(WasmQuery::Raw{ ... -letpair_info:PairInfoRaw=from_binary(&res)?;
// into
```

Also,mock\_querier has to remove oneto\_binary from its raw query response.

 $+ letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. querier. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. query (\& QueryRequest:: Wasm (Wasm Query:: Raw \{ \dots \} + letpair\_info: PairInfoRaw = deps. query (\& QueryRequest:: Query$ 

Last updated7 months ago On this page \*CosmWasm 1.0 Breaking Changes \* Address API Changes \* Extern Method Interface Changes \* Response no longer be built using a structure literal\* Sub-messages & Reply \* Storage Migration \* Advanced Storage \* Raw Querier migration

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