# Patract Hub's | Europa (sandbox) v0.2 | intake review report

## Reference Links

- Post #250 | Patract Hub's treasury report for Europa v0.2 (contract and runtime sandbox)
- Treasury #27 | Patract Hub's treasury proposal for Europa (sandbox) v0.2
- patractlabs/europa: A sandbox to run and debug smart contracts for FRAME Contracts pallet and also a sandbox framework for Substrate runtime.
- atenjin/redspot-ink-example at chain_define_balance_u64
- Review Form

## Validation Setup

| Components | Discp |
|---|---|
| rustc | rustup install nightly-2021-03-03 |
| substrate-v3.0.0-1 | Release Europa for substrate v3.0.0 version, set larger MaxCodeSize |
| For testing use-case 2.2.3 | Release Asset |
| Europa v0.2 release baselined branch | Release Branch |
| redspot-ink-example | Redspot-ink-example [master, origin/duplicate_topics, origin/chain_define_balance_u64] |

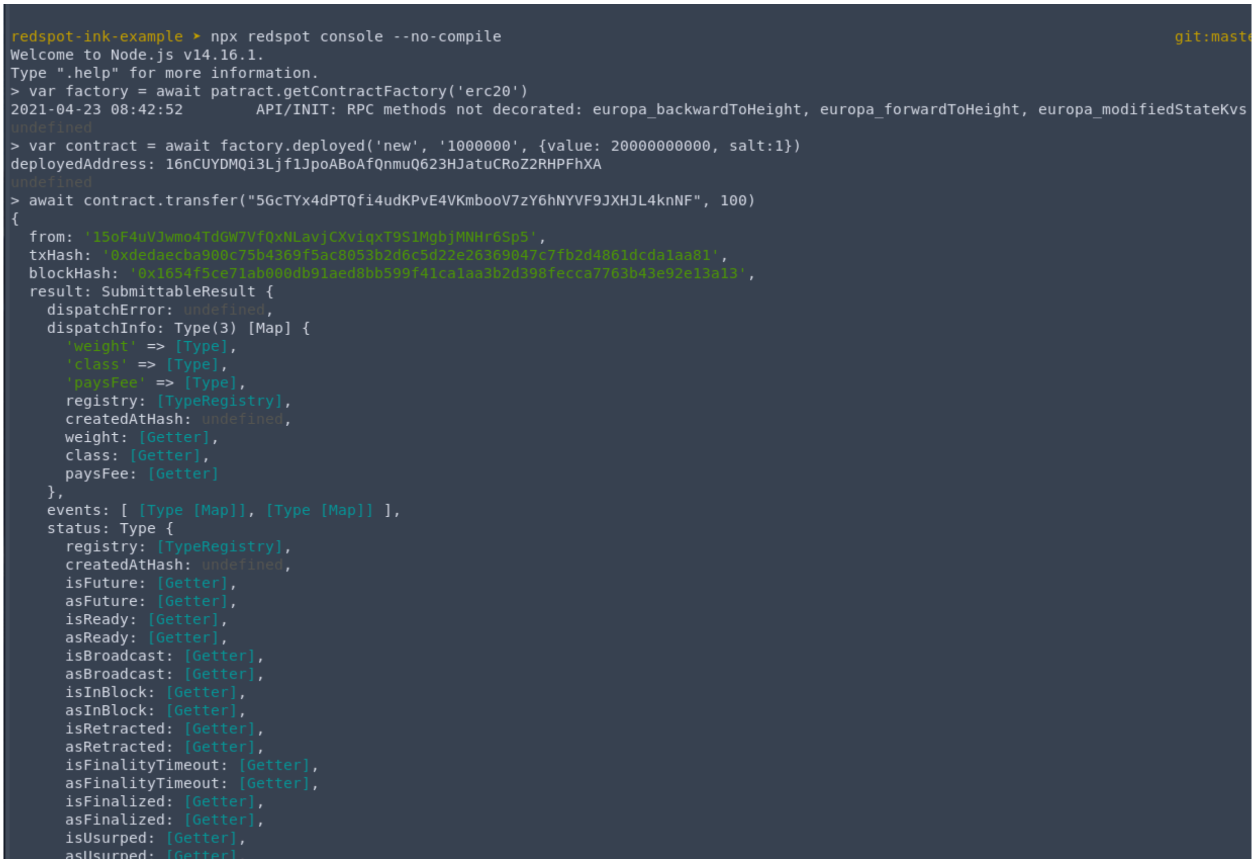
# Validation Summary

- Europa v0.2 functionality deliverables

| Req-ID | Use-case | Status |
|---|---|---|
| 2.2.1 | Case 1: Simple case | Works |
| 2.2.2 | Case 2: ContractTrap, Duplicate Topics | Works |
| 2.2.3 | Case 3: When error is caused by the chain using type Balance=u64 instead of type Balance=u128 | Works |
| 1.3 | Contract Log functions | Works |
| 1.3 | Contract panic functions | Works |

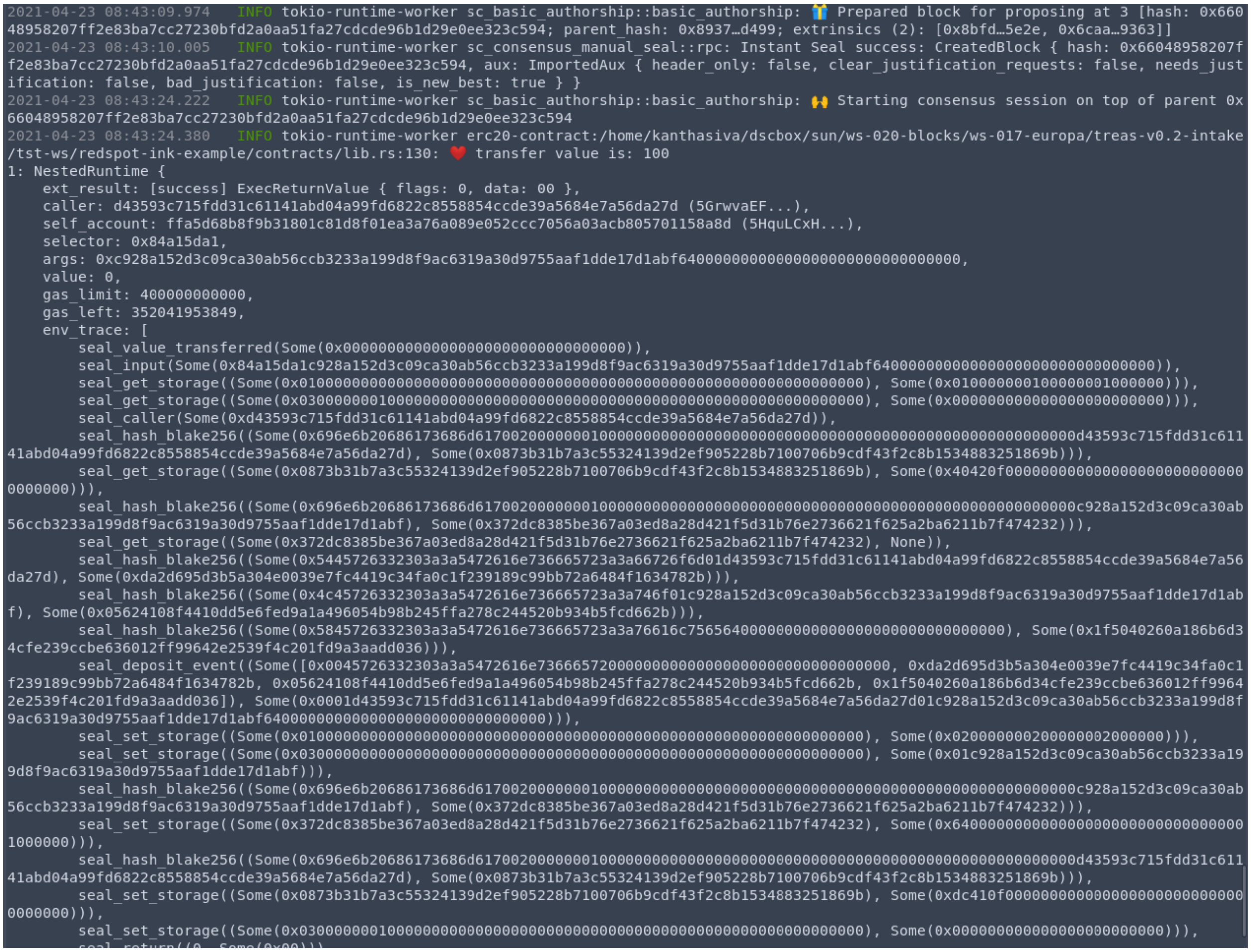
# > 2.2.1 | Case 1：Simple case | Passed

### Redspot CLI Trace



```
redspot-ink-example ➤ npx redspot console --no-compile                                                            git:maste
Welcome to Node.js v14.16.1.
Type ".help" for more information.
> var factory = await patract.getContractFactory('erc20')
2021-04-23 08:42:52        API/INIT: RPC methods not decorated: europa_backwardToHeight, europa_forwardToHeight, europa_modifiedStateKvs
undefined
> var contract = await factory.deployed('new', '1000000', {value: 20000000000, salt:1})
deployedAddress: 16nCUYDMQi3Ljf1JpoABoAfQnmuQ623HJatuCRoZ2RHPFhXA
undefined
> await contract.transfer("5GcTYx4dPTQfi4udKPvE4VKmbooV7zY6hNYVF9JXHJL4knNF", 100)
{
  from: '15oF4uVJwmo4TdGW7VfQxNLavjCXviqxT9S1MgbjMNHr6Sp5',
  txHash: '0xdedaecba900c75b4369f5ac8053b2d6c5d22e26369047c7fb2d4861dcda1aa81',
  blockHash: '0x1654f5ce71ab000db91aed8bb599f41ca1aa3b2d398fecca7763b43e92e13a13',
  result: SubmittableResult {
    dispatchError: undefined,
    dispatchInfo: Type(3) [Map] {
      'weight' => [Type],
      'class' => [Type],
      'paysFee' => [Type],
      registry: [TypeRegistry],
      createdAtHash: undefined,
      weight: [Getter],
      class: [Getter],
      paysFee: [Getter]
    },
    events: [ [Type [Map]], [Type [Map]] ],
    status: Type {
      registry: [TypeRegistry],
      createdAtHash: undefined,
      isFuture: [Getter],
      asFuture: [Getter],
      isReady: [Getter],
      asReady: [Getter],
      isBroadcast: [Getter],
      asBroadcast: [Getter],
      isInBlock: [Getter],
      asInBlock: [Getter],
      isRetracted: [Getter],
      asRetracted: [Getter],
      isFinalityTimeout: [Getter],
      asFinalityTimeout: [Getter],
      isFinalized: [Getter],
      asFinalized: [Getter],
      isUsurped: [Getter],
      asUsurped: [Getter],
```

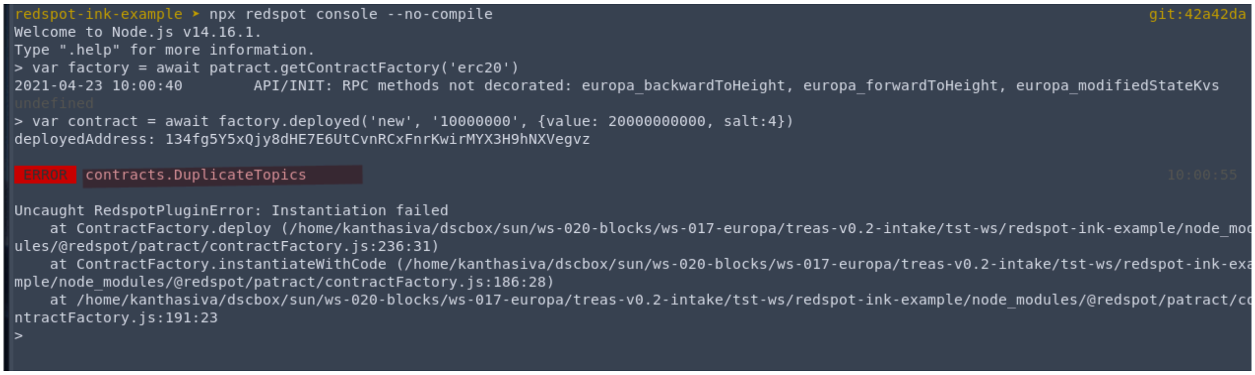
### Europa v0.2 Trace



```
2021-04-23 08:43:09.974   INFO tokio-runtime-worker sc_basic_authorship::basic_authorship: 🎁 Prepared block for proposing at 3 [hash: 0x660
48958207ff2e83ba7cc27230bfd2a0aa51fa27cdcde96b1d29e0ee323c594; parent_hash: 0x8937…d499; extrinsics (2): [0x8bfd…5e2e, 0x6caa…9363]]
2021-04-23 08:43:10.005   INFO tokio-runtime-worker sc_consensus_manual_seal::rpc: Instant Seal success: CreatedBlock { hash: 0x66048958207f
f2e83ba7cc27230bfd2a0aa51fa27cdcde96b1d29e0ee323c594, aux: ImportedAux { header_only: false, clear_justification_requests: false, needs_just
ification: false, bad_justification: false, is_new_best: true } }
2021-04-23 08:43:24.222   INFO tokio-runtime-worker sc_basic_authorship::basic_authorship: 🙌 Starting consensus session on top of parent 0x
66048958207ff2e83ba7cc27230bfd2a0aa51fa27cdcde96b1d29e0ee323c594
2021-04-23 08:43:24.380   INFO tokio-runtime-worker erc20-contract:/home/kanthasiva/dscbox/sun/ws-020-blocks/ws-017-europa/treas-v0.2-intake
/tst-ws/redspot-ink-example/contracts/lib.rs:130: ❤️ transfer value is: 100
1: NestedRuntime {
    ext_result: [success] ExecReturnValue { flags: 0, data: 00 },
    caller: d43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56da27d (5GrwvaEF...),
    self_account: ffa5d68b8f9b31801c81d8f01ea3a76a089e052ccc7056a03acb805701158a8d (5HquLCxH...),
    selector: 0x84a15da1,
    args: 0xc928a152d3c09ca30ab56ccb3233a199d8f9ac6319a30d9755aaf1dde17d1abf64000000000000000000000000000000,
    value: 0,
    gas_limit: 400000000000,
    gas_left: 352041953849,
    env_trace: [
        seal_value_transferred(Some(0x00000000000000000000000000000000)),
        seal_input(Some(0x84a15da1c928a152d3c09ca30ab56ccb3233a199d8f9ac6319a30d9755aaf1dde17d1abf64000000000000000000000000000000)),
        seal_get_storage((Some(0x0100000000000000000000000000000000000000000000000000000000000000), Some(0x010000000100000001000000))),
        seal_get_storage((Some(0x0300000001000000000000000000000000000000000000000000000000000000), Some(0x000000000000000000000000))),
        seal_caller(Some(0xd43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56da27d)),
        seal_hash_blake256((Some(0x696e6b20686173686d6170020000000100000000000000000000000000000000000000000000000000000000d43593c715fdd31c611
41abd04a99fd6822c8558854ccde39a5684e7a56da27d), Some(0x0873b31b7a3c55324139d2ef905228b7100706b9cdf43f2c8b1534883251869b))),
        seal_get_storage((Some(0x0873b31b7a3c55324139d2ef905228b7100706b9cdf43f2c8b1534883251869b), Some(0x40420f000000000000000000000000000
0000000))),
        seal_hash_blake256((Some(0x696e6b20686173686d6170020000000100000000000000000000000000000000000000000000000000000000c928a152d3c09ca30ab
56ccb3233a199d8f9ac6319a30d9755aaf1dde17d1abf), Some(0x372dc8385be367a03ed8a28d421f5d31b76e2736621f625a2ba6211b7f474232))),
        seal_get_storage((Some(0x372dc8385be367a03ed8a28d421f5d31b76e2736621f625a2ba6211b7f474232), None)),
        seal_hash_blake256((Some(0x5445726332303a3a5472616e736665723a3a66726f6d01d43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56
da27d), Some(0xda2d695d3b5a304e0039e7fc4419c34fa0c1f239189c99bb72a6484f1634782b))),
        seal_hash_blake256((Some(0x4c45726332303a3a5472616e736665723a3a746f01c928a152d3c09ca30ab56ccb3233a199d8f9ac6319a30d9755aaf1dde17d1ab
f), Some(0x05624108f4410dd5e6fed9a1a496054b98b245ffa278c244520b934b5fcd662b))),
        seal_hash_blake256((Some(0x5845726332303a3a5472616e736665723a3a76616c756500000000000000000000000000000000), Some(0x1f5040260a186b6d3
4cfe239ccbe636012ff99642e2539f4c201fd9a3aadd036))),
        seal_deposit_event((Some([0x0045726332303a3a5472616e7366657200000000000000000000000000000000, 0xda2d695d3b5a304e0039e7fc4419c34fa0c1
f239189c99bb72a6484f1634782b, 0x05624108f4410dd5e6fed9a1a496054b98b245ffa278c244520b934b5fcd662b, 0x1f5040260a186b6d34cfe239ccbe636012ff9964
2e2539f4c201fd9a3aadd036]), Some(0x0001d43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56da27d01c928a152d3c09ca30ab56ccb3233a199d8f
9ac6319a30d9755aaf1dde17d1abf64000000000000000000000000000000))),
        seal_set_storage((Some(0x0100000000000000000000000000000000000000000000000000000000000000), Some(0x020000000200000002000000))),
        seal_set_storage((Some(0x0300000000000000000000000000000000000000000000000000000000000000), Some(0x01c928a152d3c09ca30ab56ccb3233a19
9d8f9ac6319a30d9755aaf1dde17d1abf))),
        seal_hash_blake256((Some(0x696e6b20686173686d6170020000000100000000000000000000000000000000000000000000000000000000c928a152d3c09ca30ab
56ccb3233a199d8f9ac6319a30d9755aaf1dde17d1abf), Some(0x372dc8385be367a03ed8a28d421f5d31b76e2736621f625a2ba6211b7f474232))),
        seal_set_storage((Some(0x372dc8385be367a03ed8a28d421f5d31b76e2736621f625a2ba6211b7f474232), Some(0x640000000000000000000000000000000
1000000))),
        seal_hash_blake256((Some(0x696e6b20686173686d6170020000000100000000000000000000000000000000000000000000000000000000d43593c715fdd31c611
41abd04a99fd6822c8558854ccde39a5684e7a56da27d), Some(0x0873b31b7a3c55324139d2ef905228b7100706b9cdf43f2c8b1534883251869b))),
        seal_set_storage((Some(0x0873b31b7a3c55324139d2ef905228b7100706b9cdf43f2c8b1534883251869b), Some(0xdc410f000000000000000000000000000
0000000))),
        seal_set_storage((Some(0x0300000001000000000000000000000000000000000000000000000000000000), Some(0x000000000000000000000000))),
        seal_return((0, Some(0x00))),
```

## > 2.2.2 | Case 2：ContractTrap Duplicate Topics | Passed

### Redspot CLI Trace

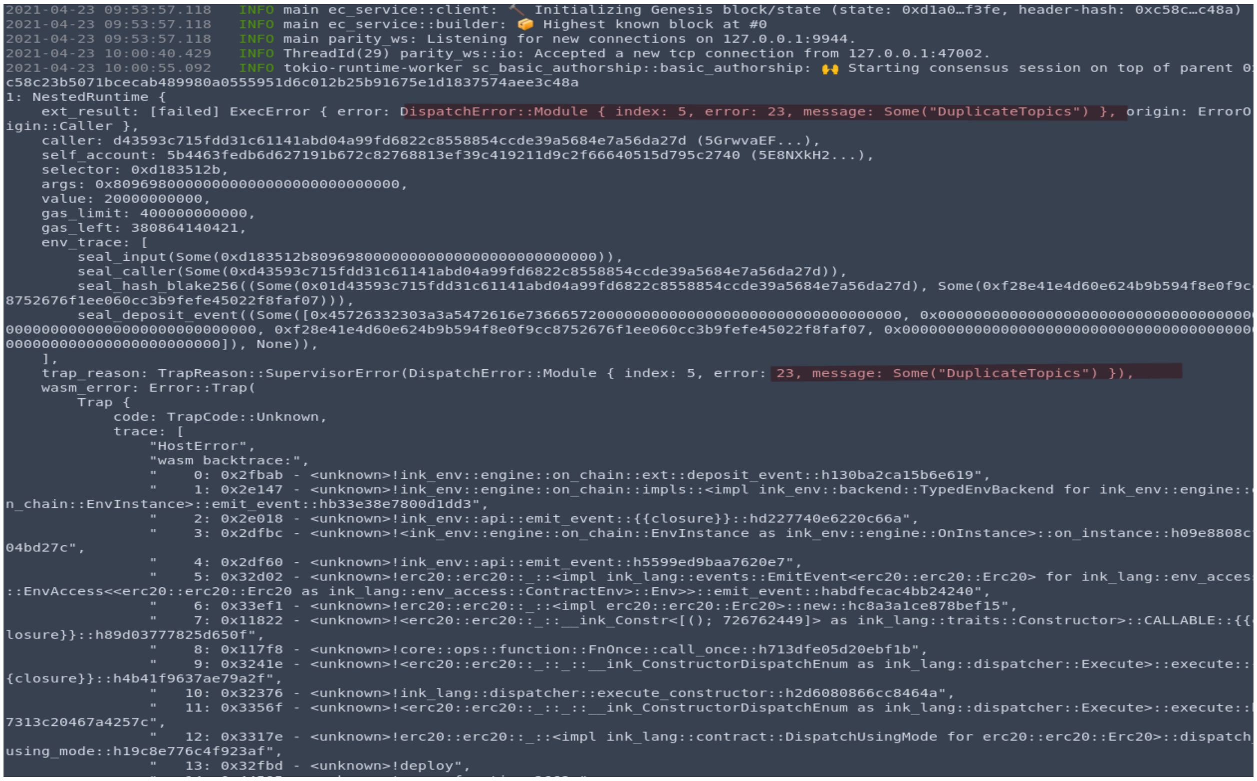


```
redspot-ink-example ➤ npx redspot console --no-compile                                                           git:42a42da
Welcome to Node.js v14.16.1.
Type ".help" for more information.
> var factory = await patract.getContractFactory('erc20')
2021-04-23 10:00:40        API/INIT: RPC methods not decorated: europa_backwardToHeight, europa_forwardToHeight, europa_modifiedStateKvs
undefined
> var contract = await factory.deployed('new', '10000000', {value: 20000000000, salt:4})
deployedAddress: 134fg5Y5xQjy8dHE7E6UtCvnRCxFnrKwirMYX3H9hNXVegvz

 ERROR  contracts.DuplicateTopics                                                                                  10:00:55

Uncaught RedspotPluginError: Instantiation failed
    at ContractFactory.deploy (/home/kanthasiva/dscbox/sun/ws-020-blocks/ws-017-europa/treas-v0.2-intake/tst-ws/redspot-ink-example/node_mod
ules/@redspot/patract/contractFactory.js:236:31)
    at ContractFactory.instantiateWithCode (/home/kanthasiva/dscbox/sun/ws-020-blocks/ws-017-europa/treas-v0.2-intake/tst-ws/redspot-ink-exa
mple/node_modules/@redspot/patract/contractFactory.js:186:28)
    at /home/kanthasiva/dscbox/sun/ws-020-blocks/ws-017-europa/treas-v0.2-intake/tst-ws/redspot-ink-example/node_modules/@redspot/patract/co
ntractFactory.js:191:23
>
```

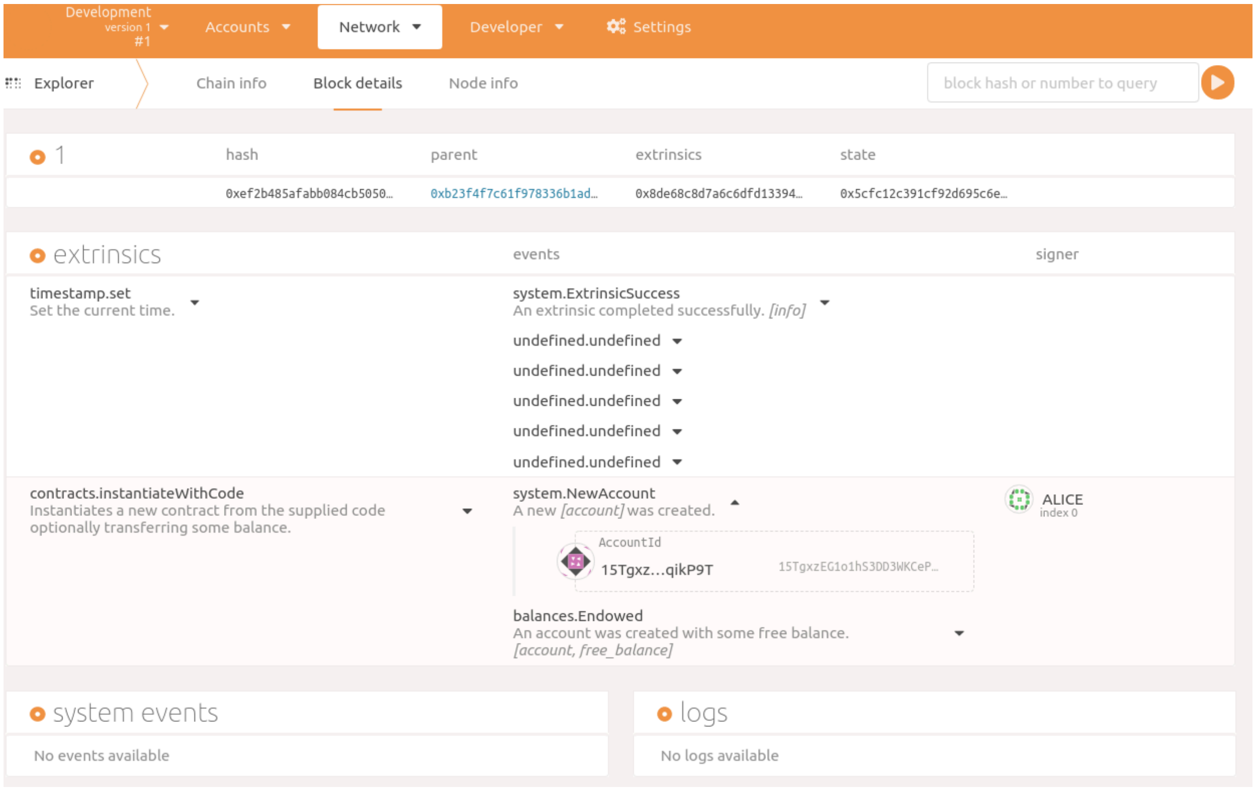
### Europa v0.2 Trace



```
2021-04-23 09:53:57.118  INFO main ec_service::client: 🔨 Initializing Genesis block/state (state: 0xd1a0…f3fe, header-hash: 0xc58c…c48a)
2021-04-23 09:53:57.118  INFO main ec_service::builder: 📦 Highest known block at #0
2021-04-23 09:53:57.118  INFO main parity_ws: Listening for new connections on 127.0.0.1:9944.
2021-04-23 10:00:40.429  INFO ThreadId(29) parity_ws::io: Accepted a new tcp connection from 127.0.0.1:47002.
2021-04-23 10:00:55.092  INFO tokio-runtime-worker sc_basic_authorship::basic_authorship: 🙌 Starting consensus session on top of parent 0x
c58c23b5071bcecab489980a0555951d6c012b25b91675e1d1837574aee3c48a
1: NestedRuntime {
    ext_result: [failed] ExecError { error: DispatchError::Module { index: 5, error: 23, message: Some("DuplicateTopics") }, origin: ErrorO
igin::Caller },
    caller: d43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56da27d (5GrwvaEF...),
    self_account: 5b4463fedb6d627191b672c82768813ef39c419211d9c2f66640515d795c2740 (5E8NXkH2...),
    selector: 0xd183512b,
    args: 0x80969800000000000000000000000000,
    value: 20000000000,
    gas_limit: 400000000000,
    gas_left: 380864140421,
    env_trace: [
        seal_input(Some(0xd183512b80969800000000000000000000000000)),
        seal_caller(Some(0xd43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56da27d)),
        seal_hash_blake256((Some(0x01d43593c715fdd31c61141abd04a99fd6822c8558854ccde39a5684e7a56da27d), Some(0xf28e41e4d60e624b9b594f8e0f9c
8752676f1ee060cc3b9fefe45022f8faf07))),
        seal_deposit_event((Some([0x45726332303a3a5472616e7366657200000000000000000000000000000000000, 0x0000000000000000000000000000000000
0000000000000000000000000000, 0xf28e41e4d60e624b9b594f8e0f9cc8752676f1ee060cc3b9fefe45022f8faf07, 0x0000000000000000000000000000000000
000000000000000000000000000]), None)),
    ],
    trap_reason: TrapReason::SupervisorError(DispatchError::Module { index: 5, error: 23, message: Some("DuplicateTopics") }),
    wasm_error: Error::Trap(
        Trap {
            code: TrapCode::Unknown,
            trace: [
                "HostError",
                "wasm backtrace:",
                "    0: 0x2fbab - <unknown>!ink_env::engine::on_chain::ext::deposit_event::h130ba2ca15b6e619",
                "    1: 0x2e147 - <unknown>!ink_env::engine::on_chain::impls::<impl ink_env::backend::TypedEnvBackend for ink_env::engine::o
n_chain::EnvInstance>::emit_event::hb33e38e7800d1dd3",
                "    2: 0x2e018 - <unknown>!ink_env::api::emit_event::{{closure}}::hd227740e6220c66a",
                "    3: 0x2dfbc - <unknown>!<ink_env::engine::on_chain::EnvInstance as ink_env::engine::OnInstance>::on_instance::h09e8808c
04bd27c",
                "    4: 0x2df60 - <unknown>!ink_env::api::emit_event::h5599ed9baa7620e7",
                "    5: 0x32d02 - <unknown>!erc20::erc20::_::<impl ink_lang::events::EmitEvent<erc20::erc20::Erc20> for ink_lang::env_acces
::EnvAccess<<erc20::erc20::Erc20 as ink_lang::env_access::ContractEnv>::Env>>::emit_event::habdfecac4bb24240",
                "    6: 0x33ef1 - <unknown>!erc20::erc20::_::<impl erc20::erc20::Erc20>::new::hc8a3a1ce878bef15",
                "    7: 0x11822 - <unknown>!<erc20::erc20::_::__ink_Constr<[(); 726762449]> as ink_lang::traits::Constructor>::CALLABLE::{{c
losure}}::h89d03777825d650f",
                "    8: 0x117f8 - <unknown>!core::ops::function::FnOnce::call_once::h713dfe05d20ebf1b",
                "    9: 0x3241e - <unknown>!<erc20::erc20::_::_::__ink_ConstructorDispatchEnum as ink_lang::dispatcher::Execute>::execute::
{closure}}::h4b41f9637ae79a2f",
                "   10: 0x32376 - <unknown>!ink_lang::dispatcher::execute_constructor::h2d6080866cc8464a",
                "   11: 0x3356f - <unknown>!<erc20::erc20::_::_::__ink_ConstructorDispatchEnum as ink_lang::dispatcher::Execute>::execute::
7313c20467a4257c",
                "   12: 0x3317e - <unknown>!erc20::erc20::_::<impl ink_lang::contract::DispatchUsingMode for erc20::erc20::Erc20>::dispatch_
using_mode::h19c8e776c4f923af",
                "   13: 0x32fbd - <unknown>!deploy",
```

## > 2.2.3 | Case 3: When error is caused by the chain using type Balance=u64 instead of type Balance=u128 | Passed

**polkadot.js.org/apps**



| 1 | hash | parent | extrinsics | state |
|---|---|---|---|---|
| | 0xef2b485afabb084cb5050… | 0xb23f4f7c61f978336b1ad… | 0x8de68c8d7a6c6dfd13394… | 0x5cfc12c391cf92d695c6e… |

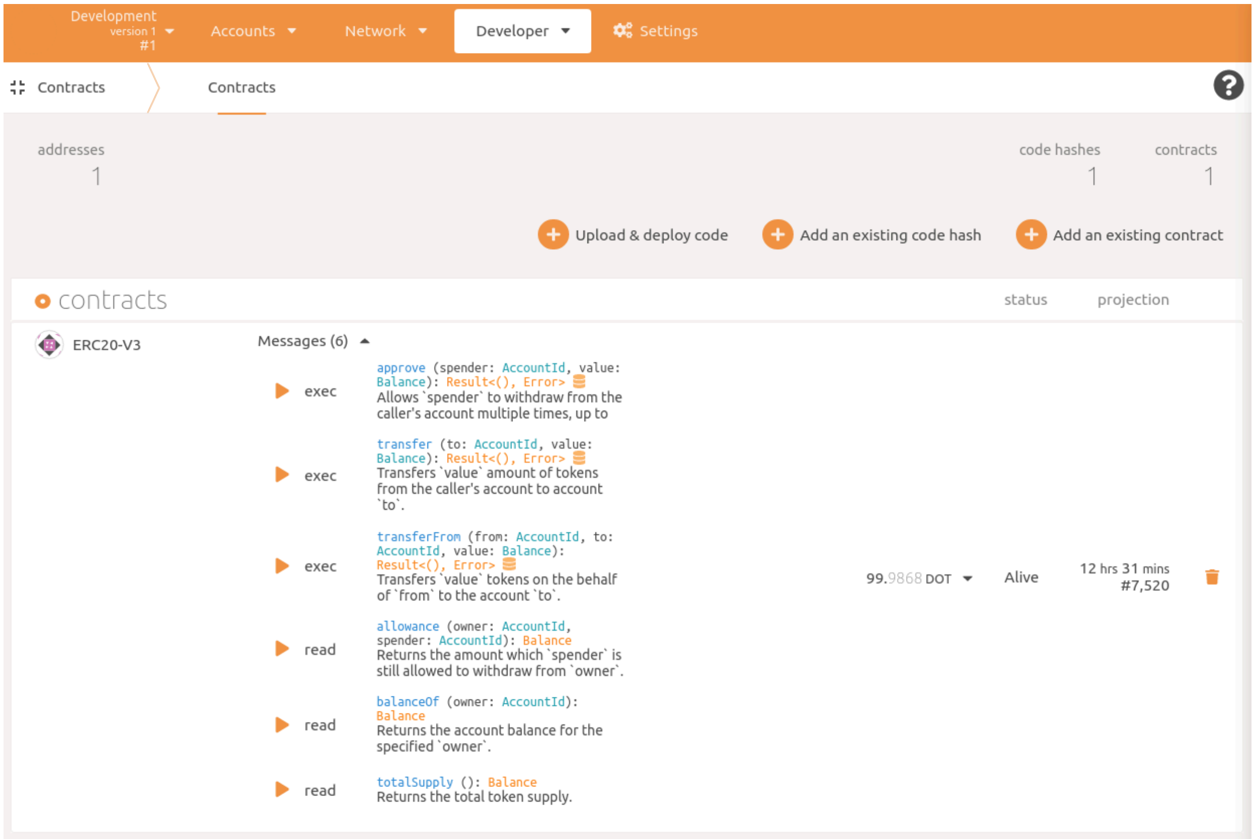
| extrinsics | events | signer |
|---|---|---|
| timestamp.set<br>Set the current time. | system.ExtrinsicSuccess<br>An extrinsic completed successfully. *[info]*<br>undefined.undefined<br>undefined.undefined<br>undefined.undefined<br>undefined.undefined<br>undefined.undefined | |
| contracts.instantiateWithCode<br>Instantiates a new contract from the supplied code optionally transferring some balance. | system.NewAccount<br>A new *[account]* was created.<br>AccountId<br>15Tgxz…qikP9T 15TgxzEG1o1hS3DD3WKCeP…<br>balances.Endowed<br>An account was created with some free balance.<br>*[account, free_balance]* | ALICE<br>index 0 |

system events

No events available

logs

No logs available



addresses 1 code hashes 1 contracts 1

ERC20-V3

```
approve (spender: AccountId, value:
Balance): Result<(), Error>
```
Allows `spender` to withdraw from the caller's account multiple times, up to

```
transfer (to: AccountId, value:
Balance): Result<(), Error>
```
Transfers `value` amount of tokens from the caller's account to account `to`.

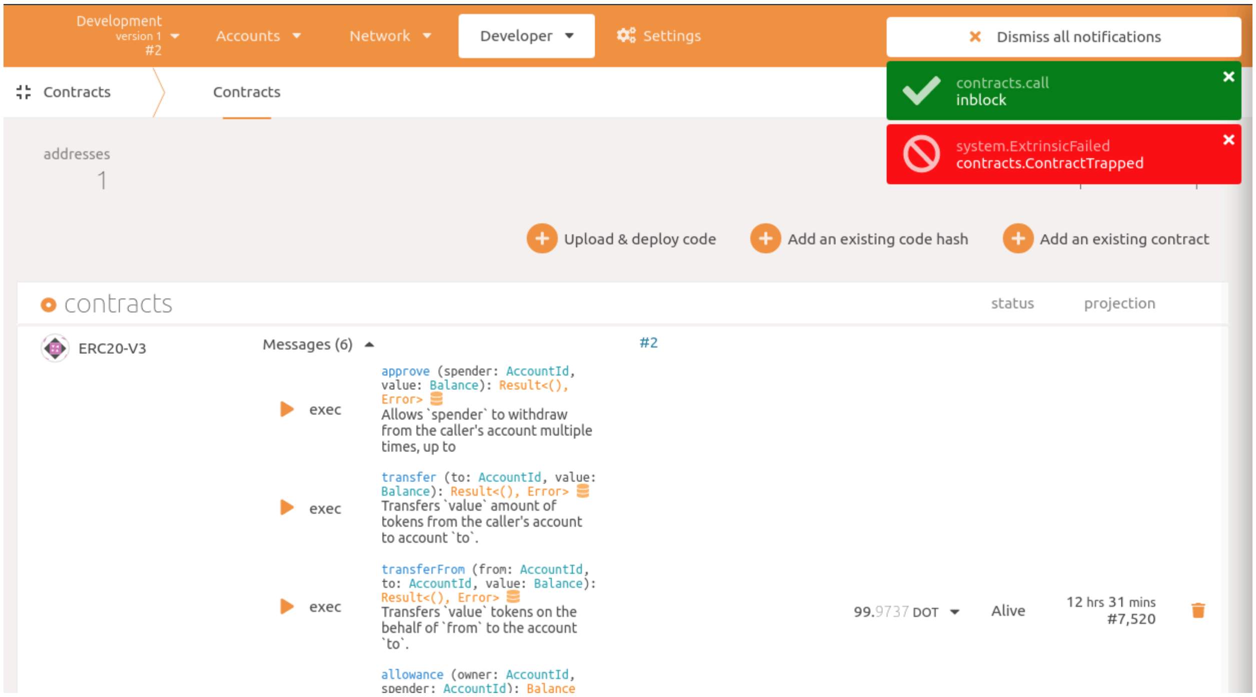
```
transferFrom (from: AccountId, to:
AccountId, value: Balance):
Result<(), Error>
```
Transfers `value` tokens on the behalf of `from` to the account `to`.

```
allowance (owner: AccountId,
spender: AccountId): Balance
```
Returns the amount which `spender` is still allowed to withdraw from `owner`.

```
balanceOf (owner: AccountId):
Balance
```
Returns the account balance for the specified `owner`.

```
totalSupply (): Balance
```
Returns the total token supply.

99.9868 DOT Alive 12 hrs 31 mins #7,520



contracts.call
inblock

system.ExtrinsicFailed
contracts.ContractTrapped

addresses 1

ERC20-V3 #2

```
approve (spender: AccountId,
value: Balance): Result<(),
Error>
```
Allows `spender` to withdraw from the caller's account multiple times, up to

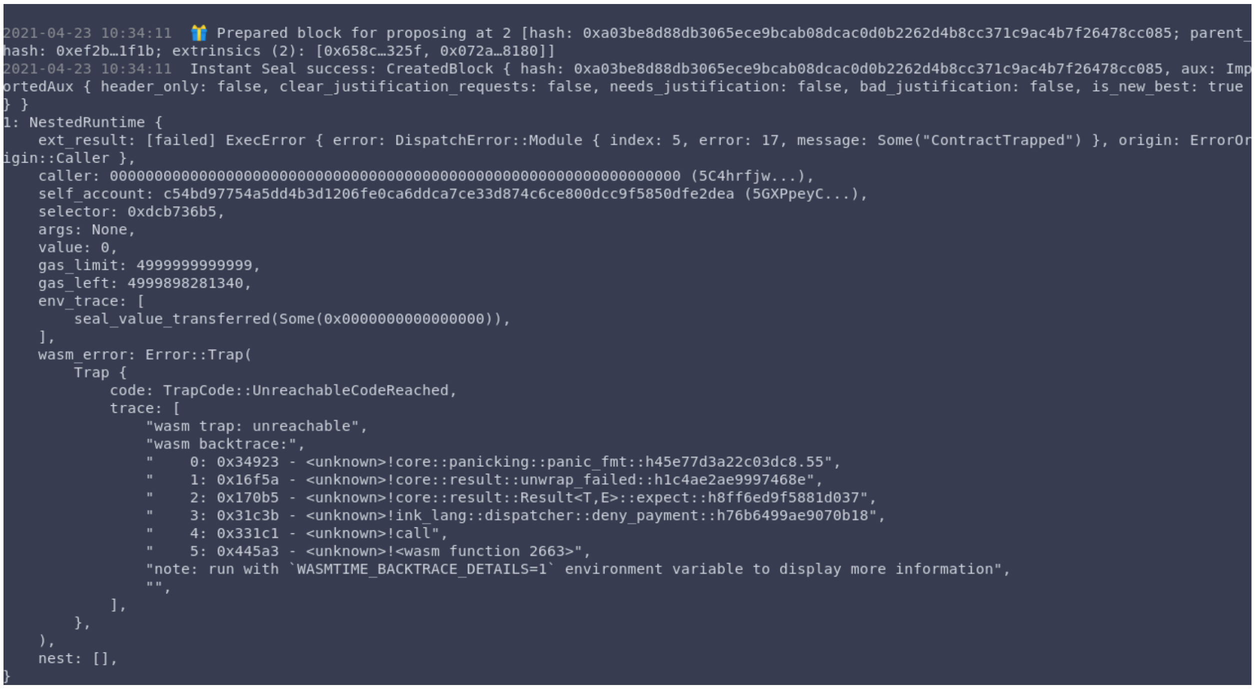
```
transfer (to: AccountId, value:
Balance): Result<(), Error>
```
Transfers `value` amount of tokens from the caller's account to account `to`.

```
transferFrom (from: AccountId,
to: AccountId, value: Balance):
Result<(), Error>
```
Transfers `value` tokens on the behalf of `from` to the account `to`.

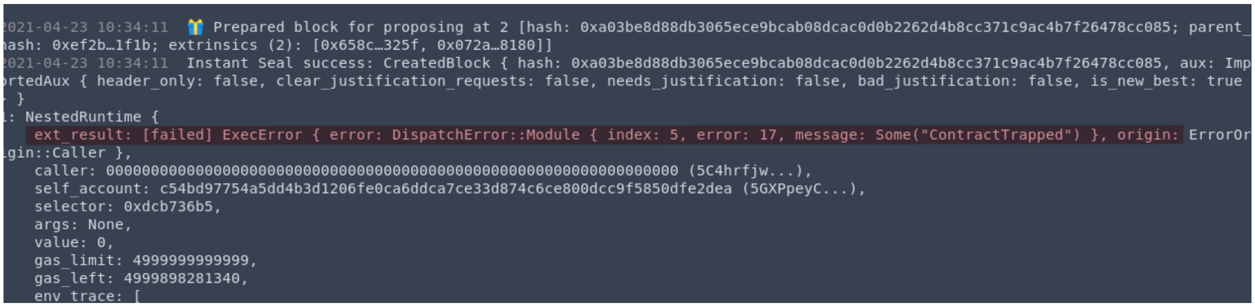
```
allowance (owner: AccountId,
spender: AccountId): Balance
```

99.9737 DOT Alive 12 hrs 31 mins #7,520

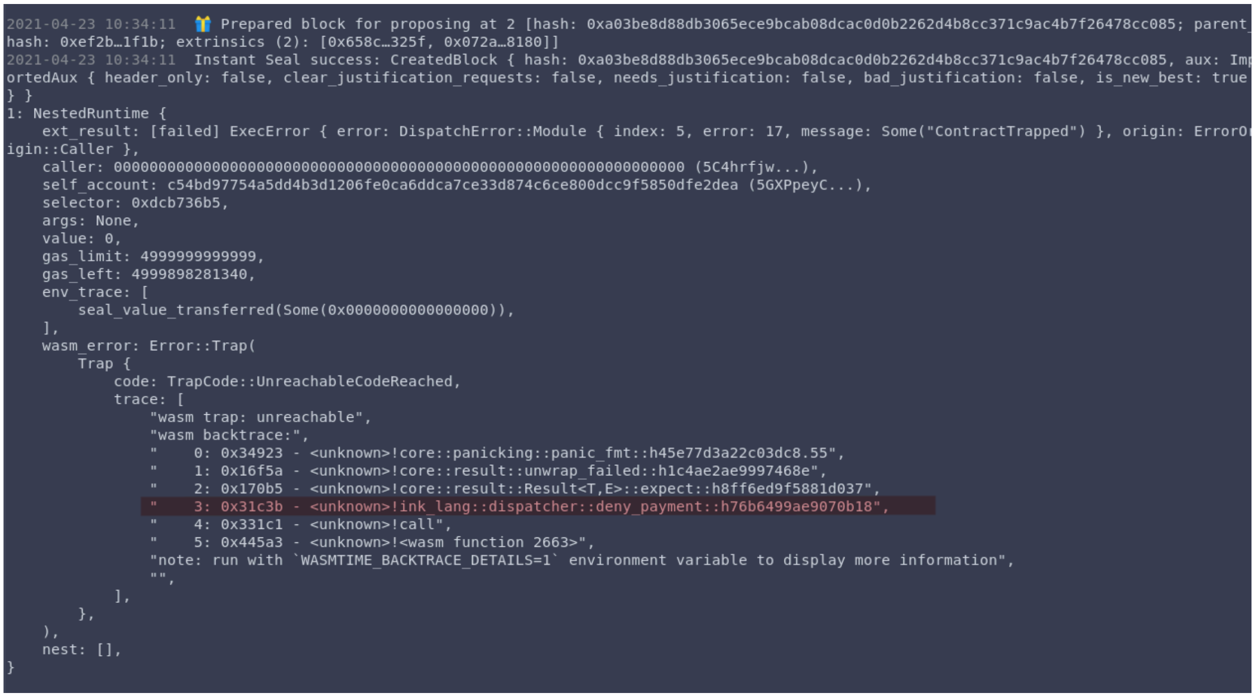
## Europa v0.2 Trace



```
2021-04-23 10:34:11  🎁 Prepared block for proposing at 2 [hash: 0xa03be8d88db3065ece9bcab08dcac0d0b2262d4b8cc371c9ac4b7f26478cc085; parent_
hash: 0xef2b…1f1b; extrinsics (2): [0x658c…325f, 0x072a…8180]]
2021-04-23 10:34:11  Instant Seal success: CreatedBlock { hash: 0xa03be8d88db3065ece9bcab08dcac0d0b2262d4b8cc371c9ac4b7f26478cc085, aux: Imp
ortedAux { header_only: false, clear_justification_requests: false, needs_justification: false, bad_justification: false, is_new_best: true
} }
1: NestedRuntime {
    ext_result: [failed] ExecError { error: DispatchError::Module { index: 5, error: 17, message: Some("ContractTrapped") }, origin: ErrorOr
igin::Caller },
    caller: 0000000000000000000000000000000000000000000000000000000000000000 (5C4hrfjw...),
    self_account: c54bd97754a5dd4b3d1206fe0ca6ddca7ce33d874c6ce800dcc9f5850dfe2dea (5GXPpeyC...),
    selector: 0xdcb736b5,
    args: None,
    value: 0,
    gas_limit: 4999999999999,
    gas_left: 4999898281340,
    env_trace: [
        seal_value_transferred(Some(0x0000000000000000)),
    ],
    wasm_error: Error::Trap(
        Trap {
            code: TrapCode::UnreachableCodeReached,
            trace: [
                "wasm trap: unreachable",
                "wasm backtrace:",
                "    0: 0x34923 - <unknown>!core::panicking::panic_fmt::h45e77d3a22c03dc8.55",
                "    1: 0x16f5a - <unknown>!core::result::unwrap_failed::h1c4ae2ae9997468e",
                "    2: 0x170b5 - <unknown>!core::result::Result<T,E>::expect::h8ff6ed9f5881d037",
                "    3: 0x31c3b - <unknown>!ink_lang::dispatcher::deny_payment::h76b6499ae9070b18",
                "    4: 0x331c1 - <unknown>!call",
                "    5: 0x445a3 - <unknown>!<wasm function 2663>",
                "note: run with `WASMTIME_BACKTRACE_DETAILS=1` environment variable to display more information",
                "",
            ],
        },
    ),
    nest: [],
}
```



```
021-04-23 10:34:11  🎁 Prepared block for proposing at 2 [hash: 0xa03be8d88db3065ece9bcab08dcac0d0b2262d4b8cc371c9ac4b7f26478cc085; parent_
ash: 0xef2b…1f1b; extrinsics (2): [0x658c…325f, 0x072a…8180]]
021-04-23 10:34:11  Instant Seal success: CreatedBlock { hash: 0xa03be8d88db3065ece9bcab08dcac0d0b2262d4b8cc371c9ac4b7f26478cc085, aux: Imp
rtedAux { header_only: false, clear_justification_requests: false, needs_justification: false, bad_justification: false, is_new_best: true
 }
: NestedRuntime {
    ext_result: [failed] ExecError { error: DispatchError::Module { index: 5, error: 17, message: Some("ContractTrapped") }, origin: ErrorOr
gin::Caller },
    caller: 0000000000000000000000000000000000000000000000000000000000000000 (5C4hrfjw...),
    self_account: c54bd97754a5dd4b3d1206fe0ca6ddca7ce33d874c6ce800dcc9f5850dfe2dea (5GXPpeyC...),
    selector: 0xdcb736b5,
    args: None,
    value: 0,
    gas_limit: 4999999999999,
    gas_left: 4999898281340,
    env_trace: [
```



```
2021-04-23 10:34:11  🎁 Prepared block for proposing at 2 [hash: 0xa03be8d88db3065ece9bcab08dcac0d0b2262d4b8cc371c9ac4b7f26478cc085; parent_
hash: 0xef2b…1f1b; extrinsics (2): [0x658c…325f, 0x072a…8180]]
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ortedAux { header_only: false, clear_justification_requests: false, needs_justification: false, bad_justification: false, is_new_best: true
} }
1: NestedRuntime {
    ext_result: [failed] ExecError { error: DispatchError::Module { index: 5, error: 17, message: Some("ContractTrapped") }, origin: ErrorOr
igin::Caller },
    caller: 0000000000000000000000000000000000000000000000000000000000000000 (5C4hrfjw...),
    self_account: c54bd97754a5dd4b3d1206fe0ca6ddca7ce33d874c6ce800dcc9f5850dfe2dea (5GXPpeyC...),
    selector: 0xdcb736b5,
    args: None,
    value: 0,
    gas_limit: 4999999999999,
    gas_left: 4999898281340,
    env_trace: [
        seal_value_transferred(Some(0x0000000000000000)),
    ],
    wasm_error: Error::Trap(
        Trap {
            code: TrapCode::UnreachableCodeReached,
            trace: [
                "wasm trap: unreachable",
                "wasm backtrace:",
                "     0: 0x34923 - <unknown>!core::panicking::panic_fmt::h45e77d3a22c03dc8.55",
                "     1: 0x16f5a - <unknown>!core::result::unwrap_failed::h1c4ae2ae9997468e",
                "     2: 0x170b5 - <unknown>!core::result::Result<T,E>::expect::h8ff6ed9f5881d037",
                "     3: 0x31c3b - <unknown>!ink_lang::dispatcher::deny_payment::h76b6499ae9070b18",
                "     4: 0x331c1 - <unknown>!call",
                "     5: 0x445a3 - <unknown>!<wasm function 2663>",
                "note: run with `WASMTIME_BACKTRACE_DETAILS=1` environment variable to display more information",
                "",
            ],
        },
    ),
    nest: [],
}
```
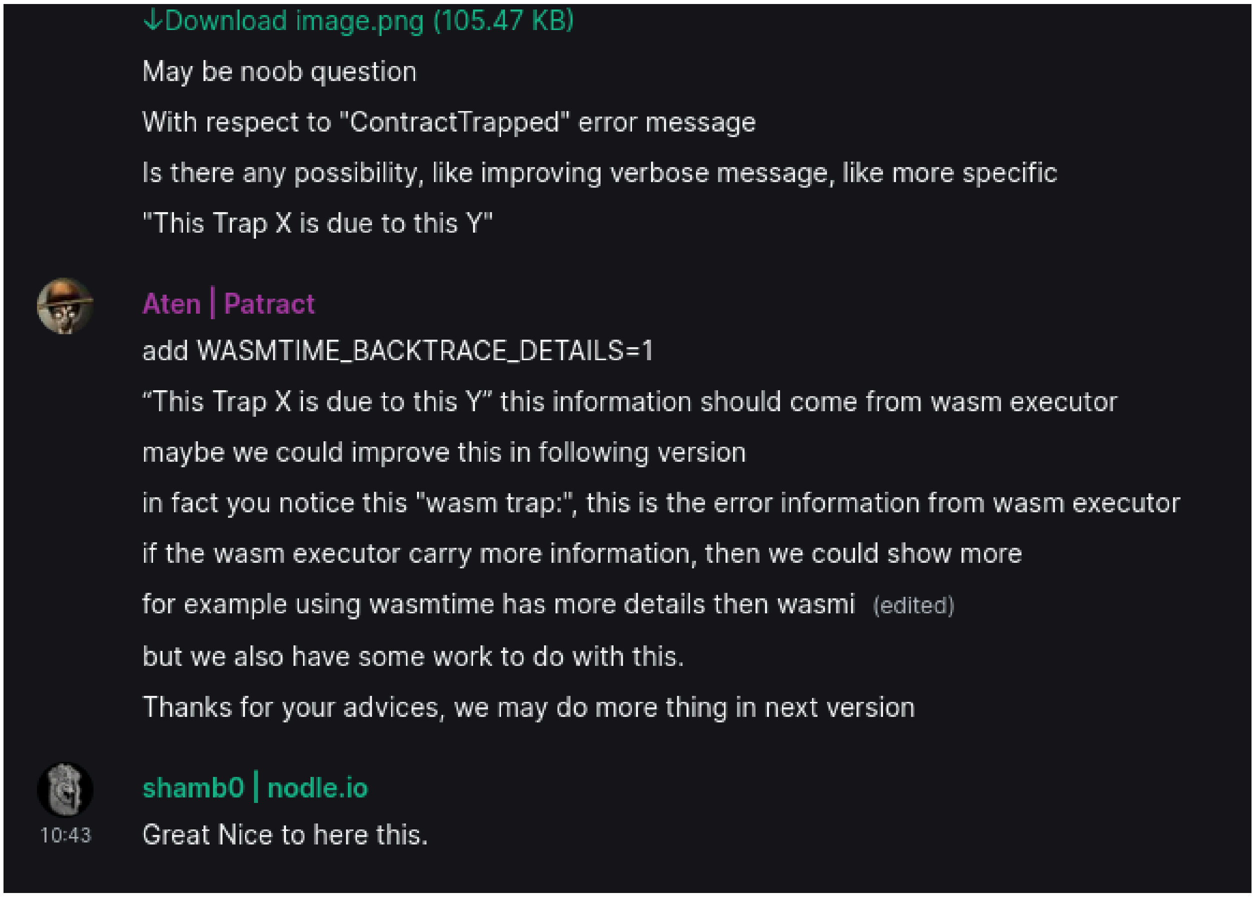

## Minor Observations

> Nice to have request, Improvement in Contract Trap error message

[Issue #62 | Treasury | Europa v0.2 | Intake review | Nice to have request, Improvement in Contract Trap error message | patractlabs/europa]

Request to improve the verbose in contract Trap error message, something like
"This Trap X is due to this Y". Discussed with Patract team, looks like
This feature has dependency on "wasm executor", and the team has plan to add this in future milestones.



↓Download image.png (105.47 KB)

May be noob question

With respect to "ContractTrapped" error message

Is there any possibility, like improving verbose message, like more specific

"This Trap X is due to this Y"

Aten | Patract

add WASMTIME_BACKTRACE_DETAILS=1

“This Trap X is due to this Y” this information should come from wasm executor

maybe we could improve this in following version

in fact you notice this "wasm trap:", this is the error information from wasm executor

if the wasm executor carry more information, then we could show more

for example using wasmtime has more details then wasmi (edited)

but we also have some work to do with this.

Thanks for your advices, we may do more thing in next version

shamb0 | nodle.io

10:43 Great Nice to here this.