Free TON subscriptions

Developed by **TON RED** team

Github: https://github.com/tonred/tonclick (see for detail documentation)

Off-chain demo Github: https://github.com/tonred/tonclick-demo

Off-chain demo site: https://demo.ton.click/

Root address in devnet: 0:61688335efeaffefc7b855e4e814dd6c7a2e768ebdf3bf0eef45004ce166c791

DeBot for Service address in devnet: 0:3a4dfa2c931767f706b1a94a22699117bc8ea361a60f2ff3bccc70cd3827c456

DeBot for Users address in devnet: 0:a8d4f71427003c3e75d5047003da399da2809450d7c783f5311d2837de324425

TG: @Abionics, @get_username

Key features

On-chain and offchain subscriptions

Infinity amount of services and users, no mapping

Many subscription plans for each services

On-chain and off-chain demos

Custom configuration of each subscription plan

Native Ton and TIP3 tokens support

Building

make setup

make compile make test

make deploy

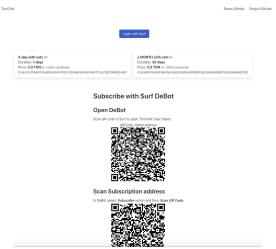
See more technical details in Github repository

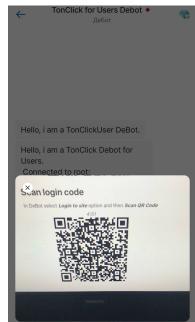
Off-chain demo

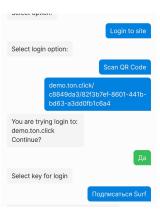
Open demo site

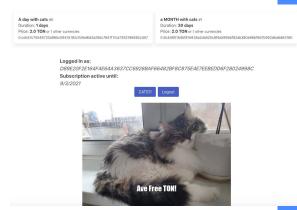
Open Debot for Users Login via on phone, scan QR code QR code

Site automatically login you









On-chain demo

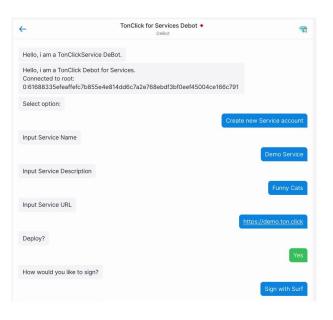
Everyone can easily integrate on-chain service with subscriptions. To do this, your contract should implement IOnchain.sol class. There is a demo of such service, that give 10 tokens to everyone who has a subscription

Important: for on-chain plans user subscriptions must be created by user address

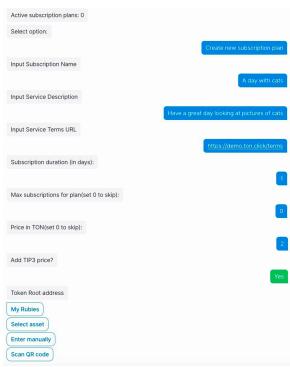
```
contract OnchainDemo is IOnchain {
    vint128 public gift = 10 ton; // just a sample
    constructor(
       address service,
       address[] subscriptionPlans,
        uint128 minValue
    ) public IOnchain(root, service, subscriptionPlans, minValue) {
        tvm.accept();
    function execute(address subscriptionPlan, TvmCell actionPayload, TvmCell /*someArgs...*/) pu
        _checkSubscription(subscriptionPlan, actionPayload);
    function _action(address user, TvmCell /*payload*/) internal override {
       tvm.accept();
       user.transfer({value: gift}); // just a sample
       // do something with payload...
```

Debot for Services

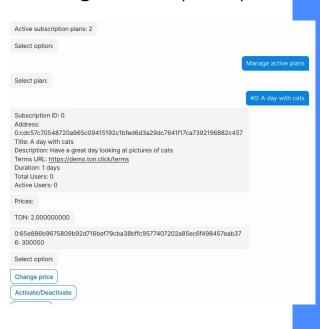
Create service



Create subscription plan



Manage subscription plan



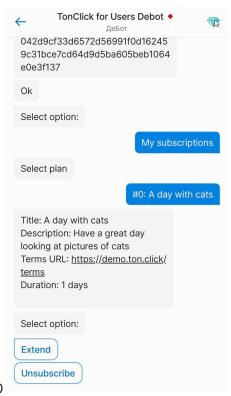
Debot for Users

Subscribe TonClick for Users Debot ◆ ДеБот Service address: 0:ca16254d936ecd50b31a45af581f e9530c4c16f3d46b805922ac9ca9 56e12750 #0 A day with cats Have a great day looking at pictures of cats Terms: https://demo.ton.click/terms Duration: 1 days Select currency TON: 2.000000000 Price: 2.00000000 TON Select option: Subscribe by public key Auto Renew?

Sample addresses for subscription:

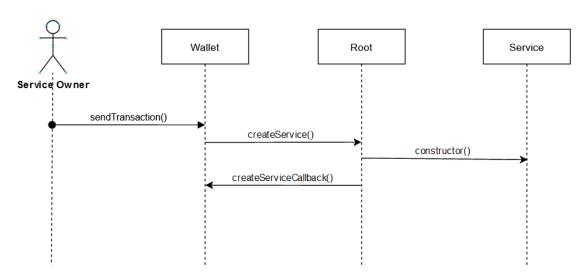
0:cdc57c70548720a965c09415192c1bfed6d3a29dc7641f17ca7392196882c457 0:8c54901b4bf87e835a2da920c8f4a5995bf82ab380e96bf9d7b952dba6d63180

Manage subscription



Workflow for service

DEPLOY SERVICE

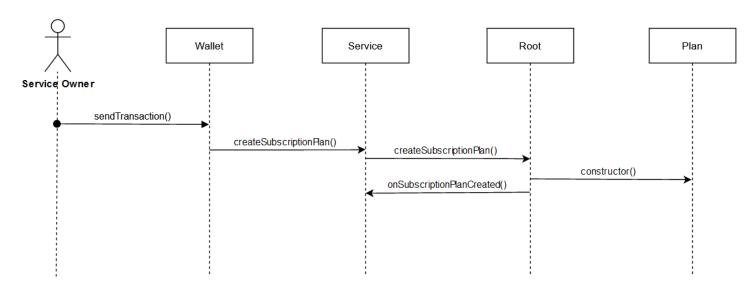


Infinity amount of services can be deployed from root contract

To deploy new service use <u>createService</u> method in root

Workflow for subscription plan

DEPLOY PLAN



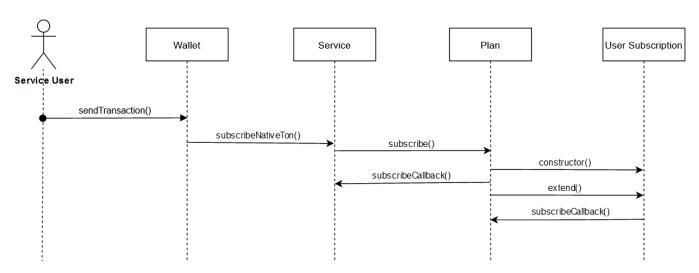
Each service can create many subscription plans

To deploy new subscription plans use <u>createSubscriptionPlan</u> method in service

Subscription plan can have max count of subscribers

Workflow for subscribe

SUBSCRIBE TON



User can easily subscribe or extend subscription plan. He must not remember if subscription already exists. If user want to subscribe, he should create a <u>payload</u> in service via <u>buildSubscriptionPayload</u> function, and then pass this <u>payload</u> depends on payment method. Accepts both native Ton and TIP3 (see GitHub)

Testing

✓ ✓ Test Results	1 sec 912 ms
✓ ✓ test_contacts	1 sec 912 ms
TestContacts	1 sec 912 ms
test_extend_after_expire	165 ms
test_once_subscribe	133 ms
test_set_withdrawal_fee	100 ms
✓ test_subscribe	129 ms
test_subscription_change_re	turn 123 ms
test_subscription_expire	110 ms
test_subscription_long_term	109 ms
test_subscription_ton	119 ms
✓ test_unsubscribe	136 ms
test_user_profile	208 ms
test_withdrawal_workflow	580 ms

✓ ✓ Test Results	593 ms
✓ ✓ test_onchain_demo	593 ms
TestOnchainDemo	593 ms
✓ test_not_enough_tokens	110 ms
test_subscription_is_expired	139 ms
test_subscription_is_not_exists	101 ms
✓ test_success	152 ms
✓ test_unsupported_subscription_plan 91 ms	