#### CryptoX wallet – AirDrop registration

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#### General behavior:

We need to implement NFT AirDrop functionality, to be able promote marketplace, authors and blockchain. Blockchain – Concordium.

Assumption: CryptoX user could be fresh registered, so do not have any CCD in his account.

#### Highlevel flow

* User register his wallet at blockchain (or have it already)
* User scan QR code for AirDrop registration
* User receive NFT to his registered wallet address
* User have ability to make received NFT sale at spaceseven
* User could see his received NFT at marketplace and wallet

Notes:

With address registration, marketplace could make any campaign by own rules. For example:

process addresses and makes NFT airdrop to each address; sent some CCD to address; autoregister at marketplace, etc.

#### QR code

QR code must contain encoded message for registration

Marketplace need to prepare json message

{

 "api\_url": "https://dev.nftmarketplace.com/airdrop/register-wallet",

 "airdrop\_id": "344611111111",

 "airdrop\_name": "Campaign 1",

 "marketplace\_name": "NFT Marketplace",

 "marketplace\_url": "https://dev.nftmarketplace.com",

 "marketplace\_icon": " https:///dev.nftmarketplace.com/logo.png"

}

This json message must be encoded with Base64 and added to special link, that could be recognized by wallet

airdrop://<base64message>

Json encoded message content:

* api\_url – full url with path, that will be invoked by wallet – backend API
* airdrop\_id – campaign id, that must be sent to API
* airdrop\_name – will be shown during registration
* marketplace\_name – will be shown during registration
* marketplace\_url – link to marketplace, shown as clickable name of marketplace

Note, that good QR code must be placed on white background (no dark borders around code).

#### CryptoX

CryptoX flow

- User could scan AirDrop QR code (printed at flyer, web page, etc.)

- Wallet prompt for registration and prompt for address selection, which will be registered

- Wallet shows message as result of registration

#### Marketplace

Marketplace need to implement API and some helpers for QR generation.

API

Input – json-rpc POST (Content-Type: application/json)

with json message:

{"airdrop\_id": 3446112874593,

 "language": "en",

 "address": {

 "concordium": "4hvvPeHb9XXXXXXXXXXXXXDRc4X9cVU8mpJLa1f2X"

 }

}

airdrop\_id – airdrop campaign identifier

language – future reserved word to enable multi language supported

address – wallet address, that must be validated/registered at backend

Output:

json message to inform user about registration status

CryptoX will display

“message” content for successful responses or

response\_meta-> error -> messages

curl request example:

curl --location --request POST 'https://dev.nftmarketplace.com/airdrop/register-wallet' \

--header 'Content-Type: application/json' \

--data-raw '{"airdrop\_id": 3446112874593,

 "language": "en",

 "address": {

 "concordium": "4NUoN8NeMiXXXXXXXXXXXXXX9Mn2jnFk8xBPavUonzN"

}

}'

Response examples

//Success registration

{

 "response\_meta": {

 "status": "OK"

 },

 "success": true,

 "message": "Your address registered for AirDrop"

}

//Already registered

{

 "response\_meta": {

 "status": "OK"

 },

 "message": "Your address already registered"

}

//some errors

{

 "response\_meta": {

 "status": "FailedPrecondition",

 "error": {

 "messages": [

 "Invalid concordium address"

 ],

 "code": "292739917866337227"

 }

 }

}