Interact With a Smart Contract

Use Circle APIs to interact with a smart contract you've already deployed.Suggest Edits

In this guide, we will interact with a deployed smart contract using APIs. If you haven't deployed a smart contract, follow thedeploy a smart contract tutorial.

1. Retrieve the Smart Contract's Functions

To fetch the new Contract object, make a GET /contracts/{id} request that includes the contractId object returned from your deployment request. The functions property returned in the successful request contains a list of all of the functions on the contract:

Node.js cURL // Import and configure the developer-controlled wallet SDK const { initiateDeveloperControlledWalletsClient } = require('@circle-fin/developer-controlled-wallets'); const circleDeveloperSdk = initiateDeveloperControlledWalletsClient({ apiKey: '', entitySecret: '' });

// Import and configure the smart contract SDK const { initiateSmartContractPlatformClient } = require('@circle-fin/smart-contract-platform'); const circleContractSdk = initiateSmartContractPlatformClient({ apiKey: '', entitySecret: '' });

const response = await circleContractSdk.getContract({ id: '0189db84-72b7-7fcc-832b-5bf886b9a0ef' }); curl --request GET \ --url 'https://api.circle.com/v1/w3s/contracts/{id}' \ --header 'accept: application/json' \ --header 'authorization: Bearer ' JSON {

"data": { "contract": { "id": "0189db84-72b7-7fcc-832b-5bf886b9a0ef", "entityId": "dcfa8149-98d8-4ed4-91fb-de7f3627b384", "deploymentTransactionId": "4f5bfa38-c598-56a6-932e-8b5bbd3d5fc9", "name": "First Contract Name", "description": "First Contract Description", "contractInputType": "BYTECODE", "createDate": "2023-08-09T18:17:17Z", "updateDate": "2023-08-09T18:17:17Z", "archived": false, "contractAddress": "0x1e124d7384cd34448ea5907bd0052a79355ab5eb", "blockchain": "MATIC-MUMBAI", "status": "COMPLETE", "deployerAddress": "0x1bf9ad0cc2ad298c69a2995aa806ee832788218c", "txHash": "0x241c4df6f08f9ed2b569c9f9b1cc48fb6074ffffaeee7552e716ce059161a743", "abiJson": "[\n\t{\n\t\t\"inputs\": [],\n\t\t\"stateMutability\": \"nonpayable\",\n\t\t\"type\": \"constructor\"\n\t},\n\t{\n\t\t\"anonymous\": false,\n\t\t\"inputs\": [\n\t\t\t{\n\t\t\t\t\"indexed\": true,\n\t\t\t\t\"internalType\": \"address\",\n\t\t\t\t\"name\": \"owner\",\n\t\t\t\t\"type\": 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Note: Smart contract functions are defined using the Application Binary Interface (ABI). Some important ABI properties are:

1. name
2. : The function name. This is used in the
3. abiFunctionSignature
4. to select which function to call when reading from or executing a function on a smart contract.
5. inputs
6. : The names and types of the arguments to the function. These parameters are passed to the
7. contracts/read
8. or
9. developer/transactions/contractExecution

10. APIs via the
11. abiParameters
12. property.
13. outputs
14. : The output values when the function returns. Some functions do not return anything.
15. stateMutability
16. : Defines how the function interacts with the blockchain.1. view
17.
    1. and
18.
    1. pure
19.
    1. functions do not change the state of the blockchain, so these are
20.
    1. read
21.
    1. functions.
22.
    1. nonpayable
23.
    1. and
24.
    1. payable
25.
    1. functions update the state of the blockchain, so these are
26.
    1. execute
27.
    1. functions.
28.
    1. nonpayable
29.
    1. is the default for a function if no
30.
    1. stateMutability
31.
    1. property exists.

2. Contract Read Function

Once you have selected a read function from the list, you can send an API request to POST /contracts/{id}/read . The example below is making a request to the owner() function to check the current owner of the contract

- Note:
- The
- abiFunctionSignature
- is derived from the function name and the parenthesized list of parameter types. For instance, the
- abiFunctionSignature
- for a function named
- testFunction
- that takes an
- address
- and an
- uint256
- would be
- testFunction(address,uint256)
- .
- Note:
- Read interactionsdo not
- require gas on the blockchain, so you are not required to a specify a wallet.

Node.js cURL // Read Contract isn't on the SDK yet const response = await circleContractSdk.readContract({ abiFunctionSignature: 'owner()' }); curl --request POST \ --url 'https://api.circle.com/v1/w3s/contracts/{id}/read' \ --header 'accept: application/json' \ --header 'content-type: application/json' \ --header 'authorization: Bearer ' \ --data ' { "abiFunctionSignature": "owner()" } ' Response Body { "data": { "outputValues": ["0x1bf9ad0cc2ad298c69a2995aa806ee832788218c"] } }

3. Contract Execution Function

Once you have chosen an execute function you can make a request to POST developer/transactions/contractExecution or user/transactions/contractExecution , for developer-controlled and user-controlled wallets, respectively. The example below uses the developer-controlled endpoint to call the safeMint() function to mint an NFT. The function takes in two parameters: the to address and the assigned tokenId for the NFT. The abiFunctionSignature is safeMint(address, uint256) .

- Note:
- The
- safeMint
- function must be called by the
- owner
- of the contract. We specified this function modifier when generating the contract earlier.
- Note:
- Write functionsdo
- require gas on the blockchain, so a
- walletId
- must be specified in the request.

Node.js cURL const response = await circleDeveloperSdk.createContractExecutionTransaction({ walletId: 'ce714f5b-0d8e-4062-9454-61aa1154869b', contractAddress: '0x2f3A40A3db8a7e3D09B0adfEfbCe4f6F81927557', abiFunctionSignature: 'safeMint(address, uint256)', abiParameters: ['0x6E5eAf34c73D1CD0be4e24f923b97CF38e10d1f3', 1], fee: { type: 'level', config: { feeLevel: 'MEDIUM' } } }); curl --request POST \ --url 'https://api.circle.com/v1/w3s/developer/transactions/contractExecution' \ --header 'accept: application/json' \ --header 'content-type: application/json' \ --header 'authorization: Bearer ' \ --data ' { "idempotencyKey": "d6d56c67-9d8b-4e87-a618-1c44fa04a495", "walletId": "ce714f5b-0d8e-4062-9454-61aa1154869b", "contractAddress": "0x2f3A40A3db8a7e3D09B0adfEfbCe4f6F81927557", "abiFunctionSignature": "safeMint(address, uint256)", "abiParameters": ["0x6E5eAf34c73D1CD0be4e24f923b97CF38e10d1f3", 1], "feeLevel": "MEDIUM", "entitySecretCiphertext": "N8sYP20DJvujfnlSM4qirGXGN8Pr+FjgMWN7zHc96EiSJnPxoGviniZlNaLT..." } Response Body { "data": { "transactionId": "84cb1754-f236-4bfc-8562-70fa6ee168c8" } } Updatedabout 2 months ago *