

Stratis Smart Contracts Challenge

ANNO STRATIS

Contract Test Documentation

Smart Contract Source Code

<https://github.com/jnlewis/anno-stratis/blob/master/Src/AnnoStratis.SmartContract/AnnoStratisContract.cs>

Smart Contract Deployment

Deploy the contract with the following parameters:

Type	Value	Remarks
Ulong	1572566400	Unix time of first block.

After contract created, Swagger may show error when clicking on “Browse API”. However, the contract endpoints can still be used without issues.

Test Contract Methods

The API endpoints described here allows direct invocation of methods on the AnnoStratis Smart Contract.

Execute the step according to the below order as each step relies on data created from the previous step. Ensure that each step has been committed to the blockchain before proceeding to avoid validation errors.

You can also use this postman collection attached here:

https://github.com/jnlewis/anno-stratis/blob/master/Docs/PostmanCollections/AnnoStratis-SmartContract.postman_collection.json

HEADERS (SAME FOR ALL ENDPOINTS)

Content-Type	application/json
GasPrice	100
GasLimit	100000
Amount	0
FeeAmount	0.01
WalletName	Hackathon_1
WalletPassword	stratis
Sender	CUtNvY1Jxpn4V4RD1tgphsUKpQdo4q5i54

POST CreateHost

http://localhost:37223/api/contract/CH4Z7KLUdqY7sJKZcx37drVdgvv4DWzFRr/method/CreateHost

BODY:

```
{ "hostAddress": "Ca6hYit6PnhpV2sDcTrQdPbhwuMQn8CK2m", "hostName": "Airbnb" }
```

POST CreateEvent

http://localhost:37223/api/contract/CH4Z7KLUdqY7sJKZcx37drVdgvv4DWzFRr/method/CreateEvent

BODY:

```
{
  "eventUniqueId": "X1QBzO7byCWIOYHt",
  "hostAddress": "Ca6hYit6PnhpV2sDcTrQdPbhwuMQn8CK2m",
  "eventRefId": "EXP18001",
  "title": "EXP18001",
  "startDateTime": 1576368000,
  "status": "Active"
}
```

POST CreateEventTier

http://localhost:37223/api/contract/CH4Z7KLUdqY7sJKZcx37drVdgvv4DWzFRr/method/CreateEventTier

BODY:

```
{
  "eventTierUniqueId": "sSng90YmnxrCbMAe",
  "hostAddress": "Ca6hYit6PnhpV2sDcTrQdPbhwuMQn8CK2m",
  "eventUniqueId": "X1QBzO7byCWIOYHt",
  "eventTierRefId": "EXPl8001T01",
  "tierName": "Normal Admission",
  "totalTickets": 50,
  "availableTickets": 50,
  "price": 238
}
```

POST CreateCustomer

http://localhost:37223/api/contract/CH4Z7KLUdqY7sJKZcx37drVdgvv4DWzFRr/method/CreateCustomer

BODY:

```
{
  "customerAddress": "CSqY46ZqK3qQZaNkDRfhXUCKez4AWQBK3u",
  "hostAddress": "Ca6hYit6PnhpV2sDcTrQdPbhwuMQn8CK2m",
  "customerRefId": "USER9000301"
}
```

POST TransferFrom

http://localhost:37223/api/contract/CH4Z7KLUdqY7sJKZcx37drVdgvv4DWzFRr/method/TransferFrom

BODY:

```
{
  "from": "CUtNvY1Jxpn4V4RD1tgphsUKpQdo4q5i54",
  "to": "CSqY46ZqK3qQZaNkDRfhXUCKez4AWQBK3u",
  "amount": 1000
}
```

POST BookEventV2

http://localhost:37223/api/contract/CH4Z7KLUDqY7sJKZcx37drVdgvv4DWzFRr/method/BookEventV2

BODY:

```
{
  "customerAddress": "CSqY46ZqK3qQZaNkDRfhXUCkez4AWQBK3u",
  "eventUniqueId": "X1QBzO7byCWIOYHt",
  "eventTierUniqueId": "sSng90YmnxrCbMAe",
  "ticketNumber": "T29Y91J3Z6B"
}
```

POST RedeemTicket

http://localhost:37223/api/contract/CH4Z7KLUDqY7sJKZcx37drVdgvv4DWzFRr/method/RedeemTicket

BODY:

```
{
  "ticketNumber": "T29Y91J3Z6B"
}
```

End of Document