

# Stratis Smart Contracts Challenge

## ANNO STRATIS

### Contract Test Documentation

#### Live Preview

This document entails direct testing on the Anno Stratis smart contract. To see the actual Anno API in action, a live testing page is available at: <http://anno.network/stratispreview>

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

## HEADERS (SAME FOR ALL ENDPOINTS)

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