Interface Design Description - accept-contract

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1 Interface Design Description Overview

The accept-contract service is used to allow systems to accept a proposed contract to buy some piece of data in exchange for some amount of currency. The system which wants to accept the contract will contact the contract system directly through the interface described in section 2. The accept-contract service is used by systems which are subscribed to the event type REQUEST_RECEIVED to accept contracts proposed to them by the contract system. Accept-contract uses HTTP/SECURE/JSON.

Table 1 Pointers to SD documents.

Service description	Path
accept-contract	Service_Description__SD____accept_contract.pdf

2 Interfaces

2.1 Request structure

The service of accept-contract is a REST API endpoint which is accessed by a POST request. The structure of the JSON object can be seen below:

```
{
  "random-hash": String,
  "producer-name": String,
  "producer-address": String,
  "producer-port": Integer,
  "service-uri": String
}
```

The `random-hash` is the identifying hash of the contract offer which allows the contract system to relay the offer acception to the system which made the offer to begin with. The `producer-name`, `producer-address`, `producer-port` and `service-uri` is the name, address, port and service of the system which accepted the contract offer. These are used by the system which made the offer to get the data it has bought.

2.2 Response structure

The `offer-contract` service will response with a HTTP response of:

- `200 OK` if the offer was accepted
- `400 Bad request` if the request structure is incomplete/incorrect
- `401 Unauthorized` if the standard arrowhead authorization protocol is not followed