API Reference

S2S TRANSACTION API

API Version: 0.9.2

Szrek2Solutions Trusted Transactions API

CONTACT

URL: http://www.szrek.com

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API
1. STATUS

1.1 GET /transactions/status

Server Status

Get current status of the transaction server.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: OK

RESPONSE MODEL - application/json

```
{
    serverId*        string    Transaction server identifier.
    serverVersion*   string    Transaction server version number.
    serverTime       string    Current system time of the RNG server.
    businessDay      integer   Current business day for this RNG server. Format is YYMMDD.
    hsms [{
    Array of object: Details about the cryptographic Hardware Security Module (HSM).

        slot*           integer   Slot number of the HSM.
        active*         boolean   Indicates the currently active HSM.
        status*         string    Current status description for this HSM.
        serial          string    Serial number of the HSM.
        sequencer       integer   Sequence number of the HSM.
        time            string    Real-time clock value of the HSM.
        keyId           string    Identifier of the RSA key pair on the HSM.
        lastErrorCode   integer   The error code of the most recent HSM error, if any.
        lastErrorTime   string    The time of the last error code, if any.
    }]
}
```

2. TRANSACTIONS

2.1 POST /transactions

Sign a Transaction

Sign and store a transaction in the block chain file.

REQUEST

REQUEST BODY - application/json

```
{
    clientId                string      Name or identifier of the client system.
    clientTime              string      Time on the client system.
    clientBusinessDay       integer     Client's current business day. Format is YYMMDD.
    clientTransactionId     integer     Client's unique identifier for this transaction.
    signRequests* [{
    Array of object:

        clientRecordId      string      Client's unique identifier for this record
        clientData          [string]
    }]
}
```

RESPONSE

STATUS CODE - 200: OK

RESPONSE MODEL - application/json

```
{
    serverId*               string      Transaction server identifier.
    serverVersion*          string      Transaction server version number.
    clientTransactionId     integer     Client's unique identifier for this transaction.
    status* {
    Status code and description

        code                integer     Numeric error or status code
        description         string      Short description of the error or status code
    }
    timestamp               string      Date and time the request was processed.
    businessDay             integer     Business day under which the transaction was recorded. Format is YYMMDD.
    results [{
    Array of object:

        clientRecordId      string      Client's unique identifier for this record
        signStatus {
        Status code and description

            code            integer     Numeric error or status code
            description     string      Short description of the error or status code
        }
        recordId            string      Unique record identifier for the stored record
        recordHandle        integer     Handle that can optionally be used for faster retrieval
    }]
}
```

STATUS CODE - 400: Bad Request

RESPONSE MODEL - application/json

```
{
Describes the error and any specific problems with fields in the request.
```

```
      code              integer    Numeric error or status code
      description       string        Short description of the error or status code
      fieldErrors [{
      Array of object:  Details about a specific field error

         code          string    Error code name
         message       string    Additional detail about the error code
         fieldName     string    Name of the field that caused the error, if applicable
         path          string    Path to the field that caused the error, if applicable
      }]
   }
```

2.2 GET /transactions/verification

Verify Signed Transaction

Retrieves and verifies a previously stored record. Parameter MUST include one of either unique-record-id or client-record-id.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
unique-record-id	string	Search using the Unique Record Identifier (URI) returned in the store response
client-record-id	string	Search using the clientRecordId sent in the store request

RESPONSE

STATUS CODE - 200: OK

RESPONSE MODEL - application/json

```
{
   serverId*                    string            Transaction server identifier.
   serverVersion*               string            Transaction server version number.
   verificationStatus {
   Status code and description

      code          integer    Numeric error or status code
      description   string     Short description of the error or status code
   }
   signRequest {
   The original signing request.

      clientId                  string      Name or identifier of the client system.
      clientTime                string      Time on the client system.
      clientBusinessDay         integer     Client's current business day. Format is YYMMDD.
      clientTransactionId       integer     Client's unique identifier for this transaction.
      clientRecordId            string      Client's unique identifier for this record
      clientData                [string]
   }
   signResult {
   The original signing result.

      timestamp        string    Date and time the request was processed.
      businessDay      integer   Business day under which the transaction was recorded. Format is YYMMDD.
      signStatus {
      Status code and description

         code          integer    Numeric error or status code
         description   string     Short description of the error or status code
      }
```

```
      recordId       string     Unique record identifier for the stored record
      recordHandle   integer    Handle that can optionally be used for faster retrieval
    }
    hsm {
    Details about the cryptographic Hardware Security Module (HSM).

      serial      string     Serial number of the HSM.
      sequencer   integer    Sequence number of the HSM.
      time        string     Real-time clock value of the HSM.
      keyId       string     Identifier of the RSA key pair on the HSM.
    }
    extractFields [{
    Array of object:

      name*    string    Column name for the CSV extract field.
      value*   string    Value of the extract field, formatted for CSV.
    }]
  }
```

STATUS CODE - 400: Bad Request

RESPONSE MODEL - application/json

```
  {
  Describes the error and any specific problems with fields in the request.

    code               integer    Numeric error or status code
    description        string     Short description of the error or status code
    fieldErrors [{
    Array of object:  Details about a specific field error

      code         string    Error code name
      message      string    Additional detail about the error code
      fieldName    string    Name of the field that caused the error, if applicable
      path         string    Path to the field that caused the error, if applicable
    }]
  }
```

STATUS CODE - 404: Not Found