

Volume

1



LS Mobile POS Request/Response format

handPoint Interlink Communication

LS MOBILE POS REQUEST/RESPONSE FORMAT

handPoint Interlink Communication

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Introduction

The handPoint Interlink is an intermediate communication layer, which translates unified client requests into a multitude of different server requests, all depending on the installed back end server.

The handPoint Interlink is a communication layer that simplifies development of handheld solutions requiring interaction with any kind of a back end server.

The handPoint Interlink is itself a thin layer data whose strength lies in its simplicity and maintainability.

By deploying the handPoint Interlink a customer can choose from a multitude of server options with no worry about specific client/Interlink implementation details.

The handPoint Interlink supports any kind of TCP communications (e.g. http requests) and translates them seamlessly to connected clients.

The LS Mobile POS Request/Response format is done over http as described in this document.

Interlink Communication

The LS Mobile POS communication model uses a request/response model, where one [http] request generates a specific response tailored accordingly.

Using a handful of basic http requests the handPoint Interlink interacts with the LS Mobile POS backend seamlessly.

Backend Authentication

Back ends may require specific authentication before requests are carried out.

As the LS Mobile POS system and Interlink are deployed on local nets and usually on the same computer the authentication of communication from Interlink to server is left up to Administrators (i.e. no specific authentication is build into the communication protocol).

Communication link TTL

Each request made by the Interlink to the LS Mobile POS back end is a one request to one response per one TCP connection.

In other words, each time a request is made to the back end the connection will be terminated as soon as the response has been received.

Requests from the Server

Even though most of the communication through the Interlink will be from clients to server it is possible to make requests from server to the Interlink.

This is traditionally used to set some state information, which the clients can then pull without actually requiring specific back end interaction.

The LS Mobile POS back end initiates no connections of its own to the Interlink.

LS Mobile POS Communication

Interaction with the LS Mobile POS back end is done with GET/POST requests over http.

Communication between Interlink and back end uses the http protocol

The communication between Interlink and back end is based on the presupposition that:

A valid request will generate a valid response.

This means that any successful request should generate a 200 OK response.

This also means that a failed request should generate a 400 response with a user readable reason/explanation in the body of the response.

Table/Checkout

Table/Checkout request gets a list of all tables and their current status.

```
GET /table/Checkout?deviceID=[deviceID]
```

Parameters

[deviceID]

[in] identifier of client making the request.

Response

Returns an http 200 response, where the body contains a comma separated list of tables and their status:

[tableID];[tableDescription]

[tableID]

[out] [string] contains the table ID.

[tableDescription]

[out] [string] description of this table.

Remarks

When this request is made the LS Mobile POS back end will unlock any table locked to the current client (i.e. clientID).

Example

200 OK

1;Open

2;Occupied 12:05

Basket/Checkout

Basket/Checkout request gets a list of payments and unpaid items for a specific table.

**GET /basket/Checkout?deviceID=[deviceID]
&tableID=[tableID]**

Parameters

[deviceID]

[in] identifier of client making the request.

[tableID]

[in] identifier of the table the client wants to work with.

Response

Returns an http 200 response, with a body containing a POS output as per the “handPoint-Mobile-POS-Integration-v5.4” document:

Remarks

When this request is made the LS Mobile POS back end will lock the specified table against all transactions by other clients/cash registers until a basket/Commit request is made (or a table/Checkout request).

Example

```
200 OK  
[POS Output]
```

Basket/Commit

Basket/Commit request adds a list of items and/or payments to a specific table.

```
POST /basket/Commit?deviceID=[deviceID]  
&tableID=[tableID]  
[POS Output]
```

Parameters

[deviceID]

[in] identifier of client making the request.

[tableID]

[in] identifier of the table the client is working with.

[POS Output]

[in] POS output as per the “handPoint-Mobile-POS-Integration-v5.4” document.

Response

Returns an http 200 response, with an empty body.

Remarks

When this request is made the LS Mobile POS back end will unlock the specified table for all transactions by other clients/cash registers.

The LS Mobile POS backend supports the Split bill functionality, whereby a customer can opt to pay for a portion of the items belonging to a table. In such an event the table is still unlocked for other clients/cash registers.

Example

```
POST /basket/Commit?deviceID=[deviceID]  
&tableID=[tableID]
```

```
[POS Output]
```

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