Making a payment and printing a receipt

INFO: Prerequisite

It is recommended to read the [Writing an application](#) and familiarize yourself with the [OakOS API](#) before continuing.

Talking to a Verifone P400 terminal

OakOS has built into the OS a proxy to handle the communications to the terminal. All that needs to be sent is a JSON payload to our PSDK proxy and the terminal sale will be triggered and report back to the status.

A typical cart might be collected on the client-side of the application like this:

JSON request

```
{
"items": [
{
"name": "Item 1",
"subtotal": "20.2",
"taxRate": "0.085",
"total": "21.916999999999998"
},
{
"name": "Item 2",
"subtotal": "20.2",
"taxRate": "0.085",
"total": "21.916999999999998"
}
],
"cart": {
"total": "40.4",
"tax": "3.434",
"taxRate": "0.085",
"grandTotal": "43.833999999999996"
},
"terminalIp": "192.168.86.43"
}
```

Note that all values should be converted to a string. This entire cart, including the items array is sent to the `app-payment` demo [print-receipt.js](#) script to illustrate how to build a printer receipt into a PDF for printing. The only fields that are necessary for sending a payment to the Verifone terminal proxy looks like this:

Payment Request Payload

```
{
"cart": {
"total": "40.4",
"tax": "3.434",
"taxRate": "0.085",
"grandTotal": "43.833999999999996"
},
"terminalIp": "192.168.86.43"
}
```

can be sent directly to the proxy by using a node exec command:

payment.js

```
const { exec } = require('child_process')

let data =
`{"cart":{"total":"40.4","tax":"3.434","taxRate":"0.085","grandTotal":"43.833999999999996"},"terminalIp":"
${process.env.TERMINAL_IP}"}`

async function sendCart(payload) {
await exec(`curl --header "Content-Type: application/json" --request POST --data '${data}' localhost:8003` (err,
stdout, stderr) => {
if (err) {
// node couldn't execute the command
console.log(`Error: ${err}`);
return;
}
// the *entire* stdout and stderr (buffered)
console.log(`stdout: ${stdout}`);
console.log(`stderr: ${stderr}`);
})
}
```

This code can be found at [test/payment.js](#) of the `app-payment` project

Installing the demo application

Using the OakOS Dashboard, the [app-payment](#) POC can be used to test running a payment. This app also demonstrates the printing ability.