

# PaladinEcomAPI

## Document History

Version	Notes	Date
V1.0.6	<input type="checkbox"/> Reduced scope document initial release.	05/21/2021
V1.0.7	<input type="checkbox"/> Add AltPartNumber to Inventory record. Document Rate Limiting. Include GetInventoryByPage API	07/20/2021

## PaladinEcomAPI

PaladinEcomAPI is a REST API specifically focused on Ecommerce integrations. It enables the transfer of Inventory and Invoice data between a specific PaladinPOS system (store) and an integrator. Post and Get HTTP verbs are supported.

### Security

The PaladinEcomAPI utilizes OAuth2 bearer tokens to provide security. Both the client (store's Paladin service) and the user must be setup by Paladin. The token controls access and provides the identity of the external system utilizing the API.

The client (PaladinPOS system) must have Mobile2 StoreService setup and the Mobile API option(s) enabled.

The API user must obtain a token to access the API. It requires a separate call to the token service using credentials provided by Paladin to generate a token. The token has a session length of one hour and does support renewal. The token returned in the results of the call to the token service must be used in all requests to the PaladinEcomAPI. If the token has expired or is not valid, the PaladinEcomAPI will return a 401 Unauthorized status.

### Base URL

All requests should be made to the following URL:

For Production: <https://mobile2.paladinpos.com/api/v1/pos>

For Testing site and credentials, see PaladinEcomAPITestStore.xlsx

For Production credentials, contact Paladin Support (support@paladinpos.com).

### Request/Response format

The PaladinEcomAPI uses JSON for all requests and responses.



Paladin API runs on store hardware which may be outdated and/or slow. To reduce the risk of API calls affecting the performance of the POS system in the stores, API calls are limited to 1 call per second across all APIs. If you exceed that limit, you will get a 429 - Too Many Requests response. Code should be designed to check for this response and retry after an appropriate delay.

Paladin POS	Data Type	Status	Notes
status	string	Required	String value for Http Status Code
code	int	Required	Numerical value for Http Status Code
messages	string array	Required	
data	string	Optional	JSON formatted. Can be null or empty.

## Token API

URL: (.../token)

You must include the authorization parameters in the message body with content-type x-www-form-urlencoded

```
Grant_type: password
Username: Paladin provided username
Password: Paladin provided password
```

```
{
  "access_token":
    "qazwGciOiJSUzI1NiIsImtpZCI6IjgzMzAwMkM4MEJENzgyNUI2Nzg2OTk0QkE0ajkl;OUYzOTNFRjY4RTkiLCJ0eXAiOiJK1234LCJ4NXQiOiJnekFDeUF2WGdsdG5ocGxMcE8tcDg1UHZhT2sifQ.eyJ1YmYiOiJ1MzI2MzI0MzYlMjV4cCI6MTUzOTYzNzA3NiwiawXNzIjoiaHR0cHM1234pZGVudGl0eS5wYWxhZGlucG9zLmNvbSIsImF1ZCI6WjodHRwczovL2lkZW50aXR5LmNhbGhGFkaW5wb3MuY29tL3Jlc291cmNlcylsInBhbGhGFkaW4ubW9iaWx1"
```

Lmludm9pY2UuY2xpZW50l0sImNsaWVudF9pZC16InBhbGFkaW4ubW9iaWxlLmludm9pY2Uud2Viliwic3Vi  
ljoIYTY0OTcxMzItNTA2MC001234ctNDQ5ZWY0NDg4ZDEwliwiYXV0aF90aWw1IljoxNTM5NjMzNDc2LCJpZH  
AiOiIsb2NhbcisInBhbGFkaW5fc3RvcmlUiOlsiMyIsli0xMDIyIiwilTEwMjciLCItMTAyMCIsIjk5OTkiLCItMTAy  
OSJdLCJyb2xlljpbIm1vYmIsZTluY2h1Y2tvdXQiLCJtb2JpbGUyLmRlbGl2ZXIiLCJwYWxhZGluLnN1cHBvcnQiLC  
Jtb2JpbGUyLmRlbGl2ZXIiLCJwYWxhZGluLnN1cHBvcnQiLCJwYWxhZGluLnN1cHBvcnQiLCJwYWxhZGluLnN1cHBvcnQiLC  
Lmludm9pY2UuY2xpZW50liwib2ZmbGluZV9hY2Nlc3MiXSwiYW1yIjpbInB3ZCJdfQ.icUvr1nktwSqmc9bYD  
8qn1xvFmFBDU5KejaJv\_384GAR8wiK791S3zqr1XTyhnbusbl21234vUyO1zZ-  
NRirzo9nqQnodBuZeUAtmjYGz9Mr2d0iOupRdljIOznlb0SF5eP35Y2k\_1QvbnmYsbYxkfAVxVUQboZbCtTqF  
\_BkwDTB3ReUEa\_xiQNYwrAcS0ySWxWpon-  
Hcco8Q1234mVj6VEkINJhqWPGOHC8UnAUPuccyexwPCDIC\_n6LJOJ4lqmP1zfVp1ACIE-  
Y80k6uesmZdpeMdKvTY5nnZeHfhqHpozp-O87OYC\_V08HFRtWf8ffsZpJWSAkqwer",

"expires\_in": 3600,

"token\_type": "Bearer",

"refresh\_token": "3fcd185f976e501b7e3ccatyue9562c59f60d321afd6d72bcc392a56783563e8"

}

## Inventory API

### Inventory Model

Sample Paladin inventory model format:

```
{
  "PartId": 1,
  "PartNumber": "string",
  "AltPartNumber": "string",
  "MfgPartNumber": "string",
  "Description1": "string",
  "Description2": "string",
  "Weight": 0.0,
  "CoreCharge": 0.0,
  "StockOnHand": 0.0,
  "QtyOnOrder": 0.0,
  "Taxable": true,
  "RetailPrice": 0.0
  "StockOnHand": 0.0
}
```

### GET – All by Page

Verb: GET

(.../{storeId}/inventory/{per\_page}/{page\_num})

This route returns a page of inventory items. The response header contains information useful in the navigation of inventory items (current page and total number of parts).

Variables:

- {storeId} Paladin store number
- {per\_page} must be an integer and will determine the number of inventory items returned per page.  
Max value = 100
- {page} must be an integer and will determine which page is returned

Responses:

- If the request is successful, the response will return a status of 200 (OK) and the inventory data
- If the requested store is not authorized, the response will return a status of 401 (Unauthorized)
- If the request is not correct the response will return a status of 400 (Bad Request)
- If the page size is too big the response will return a status of 400 (Bad Request)
- If the requested store is not accessible, the response will return a status of 400 (Bad Request)
- If the Rate Limit is exceeded, the response will return a status of 429 (Too Many Requests)
- Header
  - per\_page – the value from the request



*Powerfully Simple Point of Sale*

- page – the value from the request
- total\_count – total number of inventory items

Example Success Response:

HttpStatusCode: 200

Content:

```
{
  "status": "OK",
  "code": 200,
  "messages": [],
  "data": [
    {
      "PartId": 71,
      "PartNumber": "10120",
      "AltPartNumber": "041758046032",
      "MfgPartNumber": "460300",
      "Description1": "POLISH LMN 12.5OZ GRDSMN",
      "Description2": "",
      "Weight": 1.0,
      "CoreCharge": 0.0,
      "QtyOnOrder": 1.0,
      "Taxable": true,
      "RetailPrice": 6.99,
      "StockOnHand": 2.0
    },
    {
      "PartId": 72,
      "PartNumber": "10124",
      "AltPartNumber": "886449507009",
      "MfgPartNumber": "507040-1",
      "Description1": "ENDUST GREEN APPLE 10OZ",
      "Description2": "",
      "Weight": 0.9,
      "CoreCharge": 0.0,
      "QtyOnOrder": 0.0,
      "Taxable": true,
      "RetailPrice": 4.59,
      "StockOnHand": 3.0
    },
    ....
  ]
}
```

] }  
}

## GET - By PartNumber

Verb: Get

URL: (... /{storeId}/inventory/{PartNumber})

This route returns a single inventory item. It requires a valid Paladin Inventory PartNumber to be passed with the request.

Variables:

- {storeId} Paladin store number
- {PartNumber} valid Paladin Inventory PartNumber

Responses:

- If the request is successful, the response will return a status of 200 (OK) and the inventory item data
- If the requested store is not authorized, the response will return a status of 401 (Unauthorized)
- If the request is not correct, the API will return a status of 404 (Not Found)
- If the requested store is not accessible, the response will return a status of 400 (Bad Request)
- If the requested item is not found, the response will return a status of 400 (Bad Request)
- If the Rate Limit is exceeded, the response will return a status of 429 (Too Many Requests)

Example Success Response:

HttpStatusCode: 200

Content:



```
{
  "status": "OK",
  "code": 200,
  "messages": [],
  "data": {
    "PartId": 58454,
    "PartNumber": "1000641",
    "AltPartNumber": "052427006240",
    "MfgPartNumber": "2754202",
    "Description1": "GORILLA SCHOOL GLUE 4OZ",
    "Description2": "",
    "Weight": 0.3,
    "CoreCharge": 0.0,
    "QtyOnOrder": 0.0,
    "Taxable": true,
    "RetailPrice": 2.99,
    "StockOnHand": 4.0
  }
}
```

## Inventory Model Details

The inventory model is return only as there is no Post or Put commands available for inventory.

Paladin POS	Data Type	Status	Notes
PartId	Int		
PartNumber	string(14)		
AltPartNumber	string(14)		UPC Code
MfgPartNumber	string(14)		
Description1	string(28)		
Description2	string(28)		
Weight	decimal		
CoreCharge	decimal		
StockOnHand	decimal		
QtyOnOrder	decimal		
Taxable	bool		
RetailPrice	decimal		

## Invoice API

### Invoice Model

Sample Paladin invoice model format:

```
{
  "Id": 0,
  "ExtSysId": "string",
  "CustomerId": "string",
  "Number": 0,
  "Date": "2006-08-23T08:02:00-07:00",
  "ActNumber": 0,
  "ActName": "string",
  "ActTracker": 0,
  "EmployeeNumber": 0,
  "PONumber": "string",
  "Total": 0.0,
  "Profit": 0.0,
  "PromptDisc": 0.0,
  "GlobalTax": true,
  "GlobalNet": true,
  "GlobalDef": true,
  "DefaultTaxOverride": true,

  "Type": "string",
  "StoreID": 0,
  "CustRewardCardNumber": "string",
  "InvoiceItems": [
    {
      "PartNumber": "string",
      "Description": "string",
      "SoldPrice": 0.0,
      "QuantitySold": 0.0,
    }
  ],
  "InvoicePayments": [
    {
      "Type": "string",
      "Amount": 0.0,
      "ActNumber": "string",
      "SaleID": 0,
      "CreditCardNumber": "string",
      "CreditCardName": "string",
    }
  ],
  "InvoiceNotes": [
    {
      "Note": "string"
    }
  ]
}
```



## POST – Add Invoice

Verb: POST

URL: (.../{storeId}/invoices)

This route creates a new invoice in PaladinPOS.

### NOTE:

- If the ActNumber property is not populated or not found in the PaladinPOS and the CustRewardsCardNumber is not populated or not found in the PaladinPOS, the Paladin default “cash” customer will be used

### Variables:

- {storeId} Paladin store number

### Responses:

- If the invoice is successfully created in PaladinPOS the response will return a status of 201 (Created) and the new invoice is returned in the response object
- If the request is not correct, the API will return a status of 404 (Not Found)
- If the request store is not accessible, the response will return a status of 400 (Bad Request)
- If the requested store is not authorized, the response will return a status of 401 (Unauthorized)

### Example Success Response:

```
{
  "status": "Created",
  "code": 201,
  "messages": [
    "Record was created successfully."
  ],
  "data": {
    "Id": 535975,
    "Number": 535975,
    "Date": "2021-05-27T14:01:28.995-07:00",
    "ActNumber": -1,
    "ActName": "CASH SALE",
    "ActTracker": 0,
    "EmployeeNumber": 1,
    "PONumber": "",
    "Total": 47.98,
    "Profit": 33.04,
    "PromptDisc": 0.0,
    "GlobalTax": false,
```

```

"GlobalNet": false,
"GlobalDef": false,
"DefaultTaxOverride": false,
"Type": "Invoice",
"StoreID": 0,
"CustRewardCardNumber": "",
"InvoiceItems": [
  {
    "PartNumber": "1000852",
    "Description1": "FEBREZE CAR PLAT ICE 2PK",
    "SoldPrice": 5.0,
    "QuantitySold": 3.0
  },
  {
    "PartNumber": "2323445",
    "Description1": "Big Hammer",
    "SoldPrice": 32.98,
    "QuantitySold": 1.0
  }
],
"InvoicePayments": [
  {
    "Type": "Ext Charge",
    "Amount": 47.98,
    "SaleID": 0
  }
],
"InvoiceNotes": [
  {
    "Note": "testInvoiceNote"
  }
]
}

```

## Invoice Model Details

The invoice model is sent from customers in the Post message to create an invoice in Paladin. The same Model is also returned with the created invoice in the response. The fields marked as required or optional are set by the customer. The Paladin Controlled fields are only returned in the response.

Paladin POS	Data Type	Status	Notes
<b>Id</b>	Int	Paladin Controlled	Returned in POST response
<b>ExtSysId</b>	string(32)	Required	External System Invoice Id

<b>CustomerID</b>	string	Optional	Date and Time UTC
<b>Number</b>	String(14)	Paladin Controlled	Returned in POST response
<b>Date</b>	decimal	Paladin Controlled	Returned in POST response
<b>ActNumber</b>	decimal	Optional	
<b>ActName</b>	decimal	Paladin Controlled	Returned in POST response
<b>ActTracker</b>	string(32)	Paladin Controlled	Returned in POST response
<b>EmployeeNumber</b>	string(50)	Paladin Controlled	Returned in POST response
<b>PONumber</b>	string(50)	Paladin Controlled	Returned in POST response
<b>Total</b>	string(50)	Paladin Controlled	Returned in POST response
<b>Profit</b>	string(2)	Paladin Controlled	Returned in POST response
<b>PromptDisc</b>	string(10)	Paladin Controlled	Returned in POST response
<b>GlobalTax</b>	string(50)	Paladin Controlled	Returned in POST response
<b>GlobalNet</b>	bool	Paladin Controlled	Returned in POST response
<b>GlobalDef</b>	bool	Paladin Controlled	Returned in POST response
<b>DefaultTaxOverride</b>	bool	Paladin Controlled	Returned in POST response
<b>Type</b>	string(32)	Paladin Controlled	Returned in POST response
<b>StoreID</b>	int	Paladin Controlled	Returned in POST response
<b>CustRewardCardNumber</b>	String(30)	Optional	

## InvoiceItems Model Details

Paladin POS	Data Type	Status	Notes
<b>PartNumber</b>	string(14)	Required	
<b>Description</b>	string(28)	Required	
<b>SoldPrice</b>	decimal	Required	
<b>QuantitySold</b>	decimal	Required	

## InvoicePayment Model Details

Paladin POS	Data Type	Status	Notes
<b>Type</b>	string(32)	Required	Options: "ExternalCharge"
<b>Amount</b>	decimal	Required	
<b>ActNumber</b>	String(32)	Paladin Controlled	Returned in POST response
<b>SaleID</b>	int	Paladin Controlled	Returned in POST response
<b>CreditCardNumber</b>	String(4)	Paladin Controlled	Last 4 digits of Credit Card Number
<b>CreditCardName</b>	String(32)	Paladin Controlled	Name on Credit Card

## InvoiceNote Model Details

Paladin POS	Data Type	Status	Notes
-------------	-----------	--------	-------



**PALADIN™**  
DATA CORPORATION

*Powerfully Simple Point of Sale*

Note	string(62)	Required	
------	------------	----------	--