PaladinEcomAPI

Document History

Version	Notes	Date
V1.0.6	☐ Reduced scope document initial release.	05/21/2021
V1.0.7	☐ Add AltPartNumber to Inventory record. Document Rate Limiting. Include GetInventoryByPage API	07/20/2021
V1.0.8	☐ Add TaxTotal to Invoice record.	10/29/2021
V1.0.9	☐ Add pricing level fields to inventory record	1/11/2022
V1.0.10	☐ Add Desc3, Dept, Class, SubClass to inventory record	6/15/2022
V1.0.11	☐ Change Description to Description1 in invoice record	3/5/2025

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.

Rate Limiting
Paladin API runs on store hardware which may be outdated and/or slow.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.

PaladinEcomAPI Response Model Details

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.

This model is converted to JSON and placed into the body of the HTTP response. It is so 3rd-Party Integrators can build their software to expect a consistent standard when receiving data from the PaladinEcomAPI. The data section will change according to which types of data have been requested, but the status, code and messages fields will always be the same.

Token API
Verb: POST URL:
(…/token)

Body Content:
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

This will return a JSON response with a Bearer token. The token must be included with all other requests to validate the API user and to verify they have permission to access the indicated store.

```
{

    "access_token":

        "qazwGciOiJSUzI1NiIsImtpZCI6IjgzMzAwMkM4MEJENzgyNUI2Nzg2OTk0QkE0jkl;OUYzOTNFRjY4RTkiLCJ0
        eXAiOiJK1234LCJ4NXQiOiJnekFDeUF2WGdsdG5ocGxMcE8tcDg1UHZhT2sifQ.eyJuYmYiOjE1Mzk2MzM0N
        zYsImV4cCI6MTUzOTYzNzA3NiwiaXNzIjoiaHR0cHM1234pZGVudGl0eS5wYWxhZGlucG9zLmNvbSIsImF1Z
        CI6WyJodHRwczovL2lkZW50aXR5LnBhbGFkaW5wb3MuY29tL3Jlc291cmNlcyIsInBhbGFkaW4ubW9iaWxl
        Lmludm9pY2UuY2xpZW50Il0sImNsaWVudF9pZCI6InBhbGFkaW4ubW9iaWxlLmludm9pY2Uud2ViIiwic3Vi
        IjoiYTY0OTcxMzItNTA2MC001234ctNDQ5ZWY0NDg4ZDEwIiwiYXV0aF90aW1lIjoxNTM5NjMzNDc2LCJpZH
            AiOiJsb2NhbCIsInBhbGFkaW5fc3RvcmUiOisiMyIsIi0xMDIyIiwiLTEwMjciLCItMTAyMCIsIjk5OTkiLCItMTAy
            OSJdLCJyb2xlIjpbIm1vYmlsZTIuY2hlY2tvdXQiLCJtb2JpbGUyLmRlbGl2ZXIiLCJwYWxhZGluLnN1cHBvcnQiLC
            Jtb2JpbGUyLmFwaSIsIm1vYmlsZTIuc2hvdyIsIm1vYmlsZTIuc2lnbl0sInNjb3BlIjpbInBhbGFkaW4ubW9iaWxl
            Lmludm9pY2UuY2xpZW50Iiwib2ZmbGluZV9hY2Nlc3MiXSwiYW1yIjpbInB3ZCJdfQ.icUvr1nktwSqmC9bYD
            8qn1xvFmFBDU5KejaJv_384GAR8wiK791S3zqr1XTyhnbUsbI21234vUyO1zZ-
            NRirzo9nqQnodBuZeUAtmjYGz9Mr2d0iOupRdljIOznIb0SF5eP35Y2k_1QvbnmYsbYxkfAVxVUQboZbCtTqF
            _BkwDTB3ReUEa_xiQNYwrAcS0ySWxWpon-
            Hcco8Q1234mVj6VEkINJhqWPGOHC8UnAUPuccyexwPCDIC_n6LJOJ4lqmP1zfVp1AClE-
            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",
    "Description3": "string",
    "DeptId": "0",
```

```
    "DeptName": "string",
    "ClassId": "0",
    "ClassName": "string",
    "SubClassId": "0",
    "SubClassName": "string",
    "Weight": 0.0,
    "CoreCharge": 0.0,
    "StockOnHand": 0.0,
    "QtyOnOrder": 0.0,
 "Taxable": true,
    "RetailPrice": 0.0,
    "StockOnHand": 0.0,
    "PLOrder": 0,
    "PLQty": 0,
    "PLPrice": 0.0
  }
```

About Pricing Level:

If there is only one price for an item there will be one record returned for the item with PLOrder=0, PLQty=1, and PLPrice=the price. If there is more than one price for an item depending on how many are purchased there would be multiple records returned for the same item. For example if you can buy 1 for $0.15 or 10 for $1.00 there would be two records returned, one with PLOrder=0, PLQty=1 and PLPrice=0.15 and a second record with PLOrder=1, PLQty=10, PLPrice=1.00. There are maximum of 4 pricing levels (PLOrder= 0-3).

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 o per_page – the value from the request o page – the value from the request
  - o 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": "",
    "Description3": "This is a long description, up to 256 characters",
    "DeptId": "10",
    "DeptName": "CLEANING SUPPLIES",
    "ClassId": "102",
    "ClassName": "FURNITURE POLISH/TOUCH-UP",
    "SubClassId": "1",
    "SubClassName": "<not set>",
    "Weight": 1.0,
    "CoreCharge": 0.0,
    "QtyOnOrder": 1.0,
    "Taxable": true,
    "RetailPrice": 6.99,
    "StockOnHand": 2.0
    "PLOrder": 0
```

```
  "PLQty": 1
  "PLPrice": 6.99
},
{
  "PartId": 71,
  "PartNumber": "10120",
  "AltPartNumber": "041758046032",
  "MfgPartNumber": "460300",
  "Description1": "POLISH LMN 12.5OZ GRDSMN",
  "Description2": "",
  "Description3": "",
  "DeptId": "10",
  "DeptName": "CLEANING SUPPLIES",
  "ClassId": "102",
  "ClassName": "FURNITURE POLISH/TOUCH-UP",
  "SubClassId": "1",
  "SubClassName": "<not set>",
  "Weight": 1.0,
  "CoreCharge": 0.0,
  "QtyOnOrder": 1.0,
  "Taxable": true,
  "RetailPrice": 6.99,
  "StockOnHand": 2.0,
  "PLOrder": 1
  "PLQty": 10
  "PLPrice": 59.99
},
{
  "PartId": 72,
  "PartNumber": "10124",
  "AltPartNumber": "886449507009",      "MfgPartNumber": "507040-1",
  "Description1": "ENDUST GREEN APPLE 10OZ",
  "Description2": "",
  "Description3": "",
  "DeptId": "10",
  "DeptName": "CLEANING SUPPLIES",
  "ClassId": "102",
  "ClassName": "FURNITURE POLISH/TOUCH-UP",
  "SubClassId": "1",
  "SubClassName": "<not set>",
```

```
   "Weight": 0.9,
   "CoreCharge": 0.0,
   "QtyOnOrder": 0.0,
   "Taxable": true,
   "RetailPrice": 4.59,
   "StockOnHand": 3.0,
   "PLOrder": 0,
   "PLQty": 1
   "PLPrice": 4.59
 }, ....
] }
```

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": "",
 "Description3": "Gorilla kids school glue & glue stick ",
 "DeptId": "14",
 "DeptName": "PAINT AND PAINT SUNDRIES",
 "ClassId": "127",
 "ClassName": "GLUES/ADHSVS/APPLICATORS",
 "SubClassId": "4271",
 "SubClassName": "HOUSEHOLD GLUES",
 "Weight": 0.3,
 "CoreCharge": 0.0,
 "QtyOnOrder": 0.0,
 "Taxable": true,
 "RetailPrice": 2.99,
 "StockOnHand": 4.0,
 "PLOrder": 0
 "PLQty": 1
 "PLPrice": 4.59
 }
}

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	Paladin Controlled	
PartNumber	string(14)	Paladin Controlled	
AltPartNumber	string(14)	Paladin Controlled	UPC Code
MfgPartNumber	string(14)	Paladin Controlled	
Description1	string(28)	Paladin Controlled	

Description2	string(28)	Paladin Controlled	
Description3	string(256)	Paladin Controlled	Long Description
DeptId	int	Paladin Controlled	
DeptName	string(30)	Paladin Controlled	
ClassId	int	Paladin Controlled	
ClassName	string(30)	Paladin Controlled	
SubClassId	int	Paladin Controlled	
SubClassName	string(30)	Paladin Controlled	
Weight	decimal	Paladin Controlled	
CoreCharge	decimal	Paladin Controlled	
QtyOnOrder	decimal	Paladin Controlled	
Taxable	bool	Paladin Controlled	
RetailPrice	decimal	Paladin Controlled	
StockOnHand	decimal	Paladin Controlled	
PLOrder	int	Paladin Controlled	0 - 4
PLQty	int	Paladin Controlled	Required purchase qty to get price
PLPrice	decimal	Paladin Controlled	Price at qty purchased

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,
    "TaxTotal": 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",
        "Description1": "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": "",
    "TaxTotal": 0.0,
    "Total": 47.98,
    "Profit": 33.04,
    "PromptDisc": 0.0,
    "GlobalTax": false,
    "GlobalNet": false,
    "GlobalDef": false,
    "DefaultTaxOverride": false,
    "Type": "Invoice",
    "StoreID": 0,
    "CustRewardCardNumber": "",
    "InvoiceItems": [
```

```json
    {
      "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
Id	Int	Paladin Controlled	Returned in POST response
ExtSysId	string(32)	Required	External System Invoice Id
CustomerID	string	Paladin Controlled	Returned in POST response
Number	int	Paladin Controlled	Returned in POST response

Date	date	Paladin Controlled	Returned in POST response
ActNumber	int	Optional	Customer Account Number
ActName	String(30)	Paladin Controlled	Returned in POST response
ActTracker	int	Paladin Controlled	Returned in POST response
EmployeeNumber	int	Paladin Controlled	Returned in POST response
PONumber	string(35)	Paladin Controlled	Returned in POST response
Total	decimal	Paladin Controlled	Returned in POST response
TaxTotal	decimal	Optional	Total Tax for Invoice
Profit	decimal	Paladin Controlled	Returned in POST response
PromptDisc	decimal	Paladin Controlled	Returned in POST response
GlobalTax	bool	Paladin Controlled	Returned in POST response
GlobalNet	bool	Paladin Controlled	Returned in POST response
GlobalDef	bool	Paladin Controlled	Returned in POST response
DefaultTaxOverride	bool	Paladin Controlled	Returned in POST response
Type	int	Paladin Controlled	Returned in POST response
StoreID	int	Paladin Controlled	Returned in POST response
CustRewardCardNumber	String(30)	Optional	Customer Rewards Card Number

InvoiceItems Model Details

Paladin POS	Data Type	Status	Notes
PartNumber	string(14)	Required	
Description1	string(28)	Required	
SoldPrice	decimal	Required	
QuantitySold	decimal	Required	

InvoicePayment Model Details

Paladin POS	Data Type	Status	Notes
Type	string(32)	Required	Options: "ExternalCharge"

Amount	decimal	Required	
ActNumber	String(32)	Paladin Controlled	Returned in POST response
SaleID	int	Paladin Controlled	Returned in POST response
CreditCardNumber	String(4)	Paladin Controlled	Last 4 digits of Credit Card Number
CreditCardName	String(32)	Paladin Controlled	Name on Credit Card

InvoiceNote Model Details

Paladin POS	Data Type	Status	Notes
Note	string(62)	Required	