

EPCS API Documentation

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Introduction

This document defines the API that is used by clients to place orders and retrieve order status from the Exostar web store. For more information see [Products Available via the Store API](#) and [API Design Guidelines](#). For a high level overview of renewals see [Exostar Store API Renewals](#). TLS 1.2 should be used for the connection. SHA-1 is not supported.

A sales order is created in the system under the caller's company customer record with the specified line items. The sales order is converted to an invoice marked to be paid at a later date. License records and underlying User Account records are created. Relevant data is returned to the caller contained in a PurchaseResponse object.

Renew Order

HTTP Mapping

- URI : <path to API root>
- Method: POST
- Request Body: RenewRequest
- Response Body: PurchaseResponse or ErrorResponse

Processing

A sales order is created in the system under the caller's company customer record with the specified line items. The sales order is converted to an invoice marked to be paid at a later date. The specified User Account expiry date is extended. Relevant data is returned to the caller contained in a PurchaseResponse object.

Order Status

HTTP Mapping

- URI : <path to API root>&op=orderstatus&clientname={client_name}&orderid={order_id}
- Method: GET
- Request Body: none
- Response Body: OrderStatus or ErrorResponse

Processing

If the specified order is found and is accessible to the calling client, order details are returned in an OrderStatus object. Otherwise, an ErrorResponse is returned.

Account Status

HTTP Mapping

- URI : <path to API root>&op=getaccount&clientname={client_name}&accountid={account_identifier}
- Method: GET
- Request Body: none
- Response Body: UserStatus or ErrorResponse

Processing

If the specified User Account is found and is accessible to the calling client, User Account details are returned in an OrderStatus object. Otherwise, an ErrorResponse is returned.

Optional Fields

You can optionally specify extradetails=true to receive back extra details about the order like the original order ID (originalOrderId).

List Accounts

HTTP Mapping

- URI : <path to API root>&op=listaccount&clientname={client_name}
- Method: GET
- Request Body: none
- Response Body: AccountList

Filters

- orderid : filter list by unique order id
- originalorderid: filter by initial purchase sales order unique identifier
- userid : filter list by unique user id
- page: page of results to return. Range: 0-... (Default: 0)
- limit: number of results to show. Range: 1-999 (Default: 999)

Processing

Returns a list of Accounts available to the caller filtered by the optional parameters.

List Orders

HTTP Mapping

- URI : <path to API root>&op=listorder&clientname={client_name}
- Method: GET
- Request Body: none
- Response Body: OrderList

Filters

- startdate : date in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format
- enddate : date in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format

Processing

Returns a list of Orders available to the caller filtered by the optional parameters.

Entities

Entities are JSON data-structures exchanged between the client and web-service.

ErrorResponse

Container for error codes and details.

Name	Description	Type	Required
type	Type of error encountered. See ErrorTypes for list of valid values	string	true
errorId	Specific error encountered under the specified error type. See ErrorIds for list of valid values	string	true
errorDetails	Detailed error description	string	false

PurchaseRequest

Container for new purchase orders

Name	Description	Type	Required
orderId	Client specified unique order identifier. If unspecified, one will be created by the system.	number	false
clientName	Unique client identifier	string	true
payment	Payment type. See PaymentMethod list for available values	string	true
order	Line level order details. Must contain at least one element	OrderLine[]	true
requestQuantity	Specify the quantity in the confirmation for each product	bool	false

OrderLine

Container for line items on the Sales Order

Name	Description	Type	Required
product	Product identifier	string	true
quantity	The number of items. Must be > 0	number	true
address	Address for shipping if the requested product includes a physical item	Address	false
lineTag	Optional identifier used for invoicing (<40 chars)	string	false

Address

Container object for shipping address

Name	Description	Type	Required
addressee	Person to which order is sent	string	true
companyName	Company name	string	false

addrLine1	First line of address	string	true
addrLine2	Second line of address	string	false
city	City	string	true
state	State/Province	string	true
country	2 letter ISO country code. Please see supported list for selected product.	string	true
phone	Phone number	string	false
zip	Zip code	string	true
email	Email used for shipping updates	string	false

PurchaseResponse

Container for License and Order data returned after a purchase.

Name	Description	Type	Required
orderId	Sales Order unique identifier	number	true
orderName	Sales Order name for display purposes	string	true
confirmations	Data returned to the purchaser after a successful purchase	OrderConfirmation[]	false

OrderConfirmation

Container for purchase confirmation per line item on a Sales Order

Name	Description	Type	Required	Observations
licenseKey	License Key required to activate product	string	false	
product	Product identifier	string	true	
quantity	Number of seats on license	number	false	Only returned if requestQuantity set to true in request
expiryDate	Subscription expiry date in "YYYY-MM-DDTHH:mm:ssZ" ISO 8601 format	string	false	

RenewRequest

Container for purchasing a subscription renewal

Name	Description	Type	Required
orderId	Client specified unique order identifier. If unspecified, one will be created by the system.	number	false
clientName	Unique client identifier	string	true
payment	Payment type. See PaymentMethod list for available values	string	true
accountRenewals	List of accounts to renew	AccountRenewal[]	true

AccountRenewal

Container for subscription information required to renew

Name	Description	Type	Required
accountId	Unique account identifier	number	true
userId	Unique user identifier. Leave blank if renewing an unbound account. If bound, must match the user id on the account	string	true
product	Product identifier	string	true

OrderStatus

Container for Sales Order status information

Name	Description	Type	Required
orderId	Sales Order unique identifier	number	true

orderName	Sales Order name for display purposes	string	true
date	Order date in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format	string	true
status	Order status. See OrderStatuses for list of possible statuses	string	true
tracking	List of tracking numbers for the items in the order. New orders may not have any tracking information at the time of the request	TrackingInfo []	false

UserStatus

Container for User Account status information

Name	Description	Type	Required	Details
accountId	Unique account identifier	number	true	
userId	Unique user identifier. Empty string if unbound account.	string	true	
date	Subscription creation date in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format	string	true	
status	Subscription status. See AccountStatuses for valid values	string	true	
activationDate	Date of activation in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format	string	true	
expiryDate	Date of expiration in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format	string	true	
orderId	Sales order unique identifier (last transaction affecting account original /renewal)	number	true	
originalOrderId	Original sales order unique identifier (from initial purchase)	number	false	Only returned when call specifies field 'extradetails' as 'true'
licenseKey	License Key required to activate product	string	true	
hasUpgrade	Value indicating if this account support soft token credentials	boolean	true	

AccountList

Container for list of available accounts

Name	Description	Type	Required
accounts	List of unique account identifiers	number[]	true
hasMore	More pages available.	boolean	true

OrderList

Container for list of available orders

Name	Description	Type	Required
orders	List of unique order identifiers (orderId)	string[]	true

TrackingInfo

Container for tracking information available at the given time for an order.

Name	Description	Type	Required
number	The tracking number for the package	string	true
shippingService	The shipping service used for the package. See ShippingServices for list of possible values.	string	true
shipDate	The date the package was shipped in "YYYY-MM-DDTHH:mm:ss.sssZ" ISO 8601 format	string	true

Enumerations

ErrorTypes

Value	Description
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integration	Invalid API call
system	Internal Web Store system error
process	Error due to business rules

ErrorIds



The invalidOrder error is also returned when an order with the specified custom order ID already exists in the system.

Value	Type	Description
invalidClientName	integration	Client Name was not specified or not an accepted value.
invalidOrder	integration	Order object was not provided or does not contain at least one line item.
invalidProduct	integration	Product not specified or not an accepted value.
invalidQuantity	integration	Quantity specified is not supported.
invalidAddress	integration	Address required for specified product but not provided or in an invalid format.
invalidOperation	integration	Requested operation is not supported.
systemError	system	An unknown system error has occurred.
invalidOrder	process	Order Id was not found or not available to the caller.
invalidAccount	process	Account Id was not found or not available to the caller.
invalidSubscription	process	Subscription not found for not available to the caller. Check user identifier and product identifier.

OrderStatuses

Value	Description
submitted	Order submitted to the web store
pendingPayment	Order requires payment to continue
processing	Order in queue for additional processing
completed	Order scheduled for shipping

AccountStatuses

Value	Description
active	The account is active
inactive	The account has been permanently revoked

PaymentMethod

Value	Description
credit	Default credit card saved on purchaser's account will be charged.
invoice	Pay by invoice based on agreed terms.

ShippingServices

Value	Description
fedex	Federal Express
ups	United Parcel Service

usps	United States Postal Service
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Examples

Place Order

Request

```
{
  "clientName" : "exostar",
  "payment" : "invoice",
  "order" : [{
    "product" : "hwotp",
    "quantity" : 1,
    "address" : {
      "addressee" : "Test User 01",
      "companyName" : "Exostar",
      "addrLine1" : "13241 Woodland Park Rd",
      "city" : "Herndon",
      "state" : "VA",
      "country" : "US",
      "phone" : "123-123-0123",
      "zip" : "20171",
      "email" : "test.user@exostar.com"
    }
  }]
}
```

Response

```
{
  "orderId" : 345346,
  "orderName" : "S0123456",
  "confirmations" : [{
    "licenseKey" : "X-AAAABBBBCCCCDDDD1234",
    "product" : "hwotp",
    "expiryDate" : "2015-08-22T04:00:00.000Z"
  }]
}
```

Renew Order

Request

Assume the specified user has not yet used their License Key to activate their subscription.

```
{
  "clientName" : "exostar",
  "payment" : "invoice",
  "accountRenewals" : [{
    "accountId" : 124235,
    "userId" : "",
    "product" : "hwotp"
  }]
}
```

Response


```
{
  "orderId" : 987987,
  "orderName" : "S076756",
  "confirmations" : [{
    "licenseKey" : "X-AAAABBBBCCCCDDDD1234",
    "product" : "hwotp",
    "expiryDate" : "2016-08-21T04:00:00.000Z"
  }]
}
```

Order Status

Request

No request body. Assume we are checking order status for order created in the "Place Order" example.

Response

```
{
  "orderId" : 345346
  "orderName" : "S0123456",
  "date" : "2014-07-10T04:00:00.000Z",
  "status" : "submitted"
}
```

Account Status

Request

No request body. Assume we are checking account status of a valid user.

Response

```
{
  "accountId" : 34534,
  "userId" : "testuniqueid_0001",
  "date" : "2014-10-02T04:00:00.000Z",
  "status" : "active",
  "activationDate" : "2014-10-07T04:00:00.000Z",
  "expiryDate" : "2015-10-01T04:00:00.000Z",
  "orderId" : 135366,
  "licenseKey" : "X-AABBCCDDEE1122334455"
}
```

List Accounts

Request

No request body.

Response

```
{
  "accounts" : [123123, 235423, 2345, 234555]
}
```

List Orders

Request

No request body.

Response

```
{  
  "orders" : [12324, 23424, 234430]  
}
```