Bilaga 1.

Teknisk beskrivning för API

Koha Order Module - API version 1.0

Last updated 2020-09-07

The API can be tested against this URL:<https://mypages.lib.ltu.se/koha/ordermodule/>

**Actors:** Vendor service (web service), Koha user (human operator), Koha instance (web service)

**Description:** This API describes interactions and data transfer between a (book) vendor service and a Koha instance when a Koha user issue an order at the vendor service.

**Use case scenario - Koha user issue an order at Vendor service:** The scenario is such that one Koha user issue an order at the vendor service website. After completing the order the vendor service displays a clickable button “Finish order handling in your library system”. The Koha user clicks on this button and the vendor service transfer the Koha user in an HTTP POST request in the running web browser to a, at the Vendor service, predefined endpoint on the Koha users Koha instance (i.e. “punch-out”). Together with this transfer within the web browser to the endpoint in the Koha instance the vendor HTTP POST JSON data (as base64-encoded form data in data field name “order”) describing the order that the Koha instance receives and processes before presenting the order view in Koha where the order handling can be finalized (most likely using an HTML form presenting to the user options on how to preserve the order data within Koha) . If the Koha user is not logged in to the Koha instance, the Koha instance will ask for Koha user to login. If the URL endpoint at the Koha instance is behind a firewall and not possible to publicly DNS reverse lookup, the Koha user is required to run VPN service on the web browser’s device (e.g. <https://koha.intranet/>). When Koha user has completed all actions on the order, the Koha Order Module displays a button with a return URL link that came with the JSON file from the vendor to redirect the Koha user web browser back to continue ordering other items on the vendor site.

**Koha User Data at the vendor service:**

CustomerNumber (string)

CustomerEndpointURL (string)

CustomerFinishOrderInILSButtonName (string)

**Description of customerEndpointURL:** This is an URL to a receiving Koha instance web service predefined at the vendor service in the customer account for the Koha user. On transfer - if the Koha user is not logged in to the Koha instance, the Koha instance will ask for Koha user to login. If the URL endpoint at the Koha instance is behind a firewall and not possible to publicly DNS reverse lookup, the Koha user is required to run VPN service on the web browser’s device (e.g. <https://koha.intranet/>).

**Example of JSON Data sent (as base64 encoded form data in field name “order”) on transfer request from vendor service to Koha instance:**

{

 "OrderNumber": "123123",

 "OrderInvoiceNumber": "DF2323SD",

 "OrderAPIVersion": "1.0",

 "OrderNote": "This order was made for the legal department",

 "Vendor": "Adlibris",

 "CustomerNumber": "A123123",

 "ContinueOrderingReturnURL": "<https://adlibris.se/>",

 "WhenOrderedTimestamp": "2020-09-10T14:50:04Z",

 "Items": [{

 "ItemID": "n0sc9q40lnnvgh4c",

 "ItemIDStandard": "LIBRIS",

 "ISBN": "9789137153421",

 "Title": "Hör mig viska",

 "Author": "Kallentoft, Mons",

 "Year": "2019",

 "Publisher": "Katmandu publishing corp.",

 "Price": 187.74,

 "PriceRRP": 217.74,

 "PriceIncVAT": 199.00,

 "VAT": 6.5,

 "Quantity": 1,

 "Currency": "SEK",

 "ItemBarcode": "7070476228B6",

 "ItemCallnumber": "Hc(f)",

 "ItemCallnumberStandard": "SAB",

 "ItemEstimatedDeliveryDate": "2020-12-10T10:30:00Z",

 "ItemNote": "Ordered to replace ET24909230",

 "MARCRecord": "...",

 "MARCRecordFormat": "marc21"

 },

 {

 "ItemID": "dp5l0fcnb3hkdgwj",

 "ItemIDStandard": "LIBRIS",

 "ISBN": "9789188801524",

 "Title": "Solsken och parmesan",

 "Author": "Holst, Christoffer",

 "Year": "2015",

 "Publisher": "Jakarta publishing enterprise",

 "Price": 159.43,

 "PriceIncVAT": 168.99,

 "VAT": 6.7,

 "Quantity": 2,

 "Currency": "SEK",

 "ItemBarcode": "707047622DE6",

 "ItemCallnumber": "30.203",

 "ItemCallnumberStandard": "Dewey",

 "ItemEstimatedDeliveryDate": "2020-10-14T10:30:00Z",

 "ItemNote": "Ordered by request from user 12398921389",

 "MARCRecord": "...",

 "MARCRecordFormat": "marcxml"

 }]

}

**Description of JSON values sent by vendor service:**

"OrderNumber" *String that identifies order at vendor service* "OrderInvoiceNumber" *String (optional) with invoice number*

*at vendor service if existing*

"OrderAPIversion" *String that describes which API version is used*

"OrderNote" *String (optional) with written note about orde*r

"Vendor" *String that uniquely identifies vendor*

"CustomerNumber" *String that identifies customer at vendor*

"ContinueOrderingReturnURL" *String with URL where to redirect when*

*continuing to order*

"WhenOrderedTimestamp" *String with timestamp on order at vendor*

*service, e.g. 2020-09-10T14:50:04Z (in ISO 8601)*

"Items": [{ *One or many items can be sent in JSON*

"ItemID” *String (optional) itemId compulsory if*

*{itemIdStandard} is populated*

"ItemIDStandard" *String (optional) describing*

*which standard of itemId used in*

*{itemId} field (e.g. “LIBRIS”)*

"ISBN" *String (optional) with ISBN if existing*

"Title" *String with title*

"Author" *String (optional) with author(s)*

"Year" *String (optional) with copyright year*

"Publisher" *String (optional) with publisher information*

"Price" *Amount decimal with price*

"PriceIncVAT" *Amount decimal with price including*

*Value Added Tax*

"VAT" *Amount decimal VAT in percent (e.g. “6.5”)*

"PriceRRP" *Amount (optional) with Recommended Retail Price*

"Quantity" *Amount integer Quantity of items of*

*this kind ordered*

"Currency" *String with currency code (in ISO 4217)*

"ItemBarcode" *String (optional) with barcode data if existing*

"ItemCallnumber" *String (optional) with*

*itemcallnumber if existing*

"ItemCallnumberStandard" *String (optional) describing*

*which standard of callnumber used in*

*{itemcallnumber}*

*field (e.g. “SAB”, “Dewey”)*

"ItemEstimatedDeliveryDate" *String (optional) with timestamp*

*of estimated delivery date (in ISO 8601)*

"ItemNote" *String (optional) with note about*

*the ordered item if exiting*

"MARCRecord" *String (optional) with the marc record compulsary*

*if {marcrecordformat} is populated*

"MARCRecordFormat" *String (optional) with the*

*marc record format in of the {marcrecord} of the item if existing {‘marc21’,’marcxml’}*

}]}