



Polaris API Guide

Polaris v.5.2:3

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Polaris API - Overview

The Polaris REST Application Programming Interface (PAPI) is a Web-based service comprised of a set of URIs which return data and/or perform actions on the Polaris application database. Method calls are made over TCP connections by sending HTTP GET, PUT, POST and DELETE requests. Nearly any computer language can be used to communicate over HTTP with the REST server. This document details the REST API methods, including the URIs, HTTP verbs, request headers and request bodies required to execute Polaris functionality.

See Also:

- "Revision History" on page 2.
- "Setup" on page 5.
- "PAPI Web Service Authorization" on page 5.
- "HTTP Method" on page 5.
- "PAPI Web Service Authorization - Sample Code" on page 7.
- "Web.config - AuthenticationLevel" on page 9.
- "SSL in Polaris 4.0.676 and later; 4.1.442 and later" on page 11.
- "HTTP Request Header" on page 12.
- "PAPI Protected Methods" on page 14.
- "Staff and Patron Logon to PAPI" on page 15.
- "Using Public Methods as an Authenticated Staff User" on page 15.
- "PAPI Error Codes" on page 17.
- "Application IDs" on page 23.
- "Material Format Types" on page 25.
- "General URI Parameters" on page 27.
- "PAPI and Swagger" on page 28.

Revision History

The following changes have been made after the release of Polaris 4.0:

- **Support for JSON** - Polaris 4.0.399 and later. See "Support for XML and JSON Data Exchange Formats" on page 11.
- **Notification Update for telephone notice processing** - Polaris 4.0.568 and later. See "NotificationUpdate" on page 98.
- **All protected method calls now require SSL** - See "SSL in Polaris 4.0.676 and later; 4.1.442 and later" on page 11., and "PAPI Protected Methods" on page 14.
- **SORTBY clause added to FIND command** - For bibliographic searches, sorting is now executed along with the search. Polaris 4.0.674 and later; Polaris 4.1.440 and later. See "BibSearch" on page 38.
- **Retrieve a list of collections** - Polaris 4.0.688 and later; Polaris 4.1.455 and later. See "CollectionsGet" on page 48.
- **PatronBasicDataGet returns additional fields** - Polaris 4.0.683 and later; Polaris 4.1.450 and later. See "PatronBasicDataGet" on page 158.
- **Retrieve, update, and delete patron messages** - Polaris 4.0.687 and later; Polaris 4.1.454 and later. See "PatronMessagesGet" on page 186., "PatronMessageUpdateStatus" on page 188., and "PatronMessageDelete" on page 189.
- **Additional patron registration fields supported; basic duplicate detection performed** - Polaris 4.0.582 and later; Polaris 4.1.315 and later. See "PatronRegistrationCreate" on page 195.
- **Synch methods for 3rd party discovery interfaces** - Polaris 4.1.488 and later. See "Synch Methods for 3rd Party Discovery Interfaces" on page 247. Additional method Synch_GetSubscriptionsByID added Polaris 4.1.720 and later. See "Synch_GetSubscriptionsByID" on page 293. Optional end date parameter added to Synch_GetUpdatedItems, Polaris 4.1.733 and later.
- **Synch methods for 3rd party circulation** - Polaris 4.1. See "Synch Methods for 3rd Party Circulation" on page 328. **Expire Copy** synch method added Polaris 4.1.769 and later. See "SynchTasksExpireCopy" on page 335.
- **New error codes for invalid password length and format** - Polaris 4.1. See PAPI Error Codes.
- **Changes to PatronUpdate method** - Polaris 4.1.542 and later. See "PatronUpdate" on page 216.
- **Patron renewal blocks** - Polaris 4.1.679 and later. See "Patron_RenewBlocksGet" on page 202.
- **Patron validate/circ blocks** - For PAPI consumers. Polaris 4.1.729. See "PatronCirculateBlocksGet" on page 164.
- **Changes to SynchTasksExpireCopyData** (synch methods for 3rd party circulation) - Polaris 4.1.803 and later. See "SynchTasksExpireCopy" on page 335.
- **Methods to search for patrons via CCL and place blocks on patron records** - Polaris 4.1.306.2 and later. See "PatronSearch" on page 211. and "CreatePatronBlocks" on page 168.
- **Additional XML elements returned for PatronsItemsOutGet** - Polaris 4.1R2.1108 and later. Added ISBN, ISSN, OCLC, and UPC. See "PatronItemsOutGet" on page 179.
- **Method to apply payments to all patron charges, paying off the oldest charges first.** Polaris 4.1R2.1140. See "PatronAccountPayAll" on page 116.
- **Method to return a list of requests.** Polaris 4.1R2.1140. See "HoldRequestGetList" on page 67.
- **Method to update the item barcode.** Polaris 4.1R2.1140. See "ItemUpdateBarcode" on page 93.

- **Method to return a list of new, modified, and deleted items.** Polaris 4.1R2.1140. See "RemoteStorageItemsGet" on page 231.
- **Method to void a patron payment.** Polaris 4.1R2.1192. See "PatronAccountVoid" on page 119.
- **Method to update request status.** Polaris 4.1R2.1199. See "UpdateRequestStatus" on page 243.
- **Method to update the patron username.** Polaris 4.1R2.1262. See "PatronUpdateUserName" on page 222.
- **Method to create a patron account credit.** Polaris 4.1R2.1396. See "PatronAccountCreateCredit" on page 121.
- **Method to deposit a patron account credit.** Polaris 4.1R2.1396. See "PatronAccountDepositCredit" on page 124.
- **Method to refund a patron account credit.** Polaris 4.1R2.1396. See "PatronAccountRefundCredit" on page 127.
- **New error code when canceling a hold request** - Polaris 5.0.349. See "PAPI Error Codes" on page 17.
- **New error codes to support 3M Cloud eContent** - Polaris 5.0 555. See "PAPI Error Codes" on page 17.
- **Method to create a title list in a patron's account** - Polaris 5.0.574. See "PatronAccountCreateTitleList" on page 130.
- **Method to get a list of the title lists in a patron's account** - Polaris 5.0.574. See "PatronAccountGetTitleLists" on page 133.
- **Method to delete a title list from the patron's account** - Polaris 5.0.574. See "PatronAccountDeleteTitleList" on page 135.
- **Method to add a title to a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListAddTitle" on page 140.
- **Method to copy a title from one title list to another in a patron's account** - Polaris 5.0.574. See "PatronTitleListCopyTitle" on page 143.
- **Method to remove a title from a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListDeleteTitle" on page 154.
- **Method to get titles from a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListGetTitles" on page 149.
- **Method to remove all titles from a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListDeleteAllTitles" on page 156.
- **Method to move a title from one title list to another in a patron's account** - Polaris 5.0.574. See "PatronTitleListMoveTitle" on page 151.
- **Method to copy all titles in a list in the patron's account** - Polaris 5.0.574. See "PatronTitleListCopyAllTitles" on page 146.
- **ID of parent organization added to OrganizationsGet method** - Polaris 5.0 SP2. See "OrganizationsGet" on page 106.
- **Updated Type of Material (TOM) list** - Polaris 5.1. See "Material Format Types" on page 25.
- **Method to authenticate patron** - Polaris 5.1 SP1. See "AuthenticatePatron" on page 29.
- **PAPI uses Swagger** - Polaris 5.2. See "PAPI and Swagger" on page 28.
- **AuthenticatePatron changes** - Polaris 5.2. AuthenticatePatron supports either barcode or username in the XML body Barcode element. The method supports the **PAC override password** and **Enable Patron username** options as specified in the Polaris Administration PAC profile **Patron Access options - Log In**. See "AuthenticatePatron" on page 29.

- **NotificationUpdate changes** - Polaris 5.2. Method now supports email and text messaging for specific types of notices. Notification types have been added: 2nd Notice (ID=18); Missing Part (ID=19); Manual Bill (ID=20). See "NotificationUpdate" on page 98.
- **PatronHoldRequestsGet changes** - Polaris 5.2. Designation and VolumeNumber are returned if present in the data. PACDisplayNotes (up to 255 characters from the PAC Display Note field) are returned. See "PatronHoldRequestsGet" on page 171.
- **PatronItemsOutGet changes** - Polaris 5.2. Designation and VolumeNumber are returned if present in the data. CanItemBeRenewed (true/false) is returned. See "PatronItemsOutGet" on page 179.
- **PatronRegistrationCreate changes** - Polaris 5.2. XML body elements now include ExpirationDate, AddrCheckDate, and PatronCode. A new error code, Invalid_Patron_Code (-3612) is added. See "PatronRegistrationCreate" on page 195.
- **PatronUpdate changes** - Polaris 5.2. Now supports patron requests to change address. The following xml body elements are added: AltEmail address; EnableSMS; PhoneVoice2; PhoneVoice3; Phone1CarrierID; Phone2CarrierID; Phone3CarrierID; TxtPhoneNumber; EReceiptOptionID (including None); ExcludeFromAlmostOverdueAutoRenew; ExcludeFromPatronRecExpiration; ExcludeFromInactivePatron; ExpirationDate; AddrCheckDate; PatronCodeID; AddressID; FreeTextLabel; StreetOne; State; County; PostalCode; Country; AddressTypeID. Null (none) is now a valid input option for DeliveryOption. You can remove an email address by sending a blank EmailAddress or AltEmail address in the request body; for example: **<EmailAddress><EmailAddress>** would remove whatever was in the record. See "PatronUpdate" on page 216.
- **DatesClosed** - Polaris 5.2. New method returns a list of dates closed by organization. See "DatesClosed" on page 50.
- **PatronCodesGetResult** - Polaris 5.2. New method returns a list of valid patron codes. See "PatronCodesGetResult" on page 137.
- **PatronILLRequestsGet** - Polaris 5.2. New method returns a list of ILL requests placed by the specified patron. The list can be filtered by the status of the request. See "PatronILLRequestsGet" on page 175.
- **RecordSetContentPut** - Polaris 5.2. New method adds or removes records from a record set. In Polaris 5.2, the method supports only the patron record set. See "RecordSetContentPut" on page 226.
- **RecordSetRecordsGet** - Polaris 5.2. New method returns a list of record IDs in a specified record set. In Polaris 5.2, the method supports only the patron record set. See "RecordSetRecordsGet" on page 228.
- **SAMobilePhoneCarriersGetResult** - Polaris 5.2. New method returns content from the SA_MobilePhoneCarriers table for a specified organization, which specifies the mobile phone carrier selections available for patron record phone fields. See "SAMobilePhoneCarriersGetResult" on page 235.
- **UpdatePickupBranchID** - Polaris 5.2. New method updates the pickup branch for a hold request when the patron requests the change. See "UpdatePickupBranchID" on page 241.
- **PatronUpdate** - Polaris 5.2. Documentation updated: **PatronCodeID** element changed to **PatronCode**. See "PatronUpdate" on page 216.

Setup

Polaris API Service (Public) license required

Web site must be configured for Anonymous only

*.svc handler mapping must be setup in IIS. If you installed IIS after Windows Communication Foundation (WCF) was installed, you must run the following command:
"%WINDIR%\Microsoft.Net\Framework\v4.0\Windows Communication Foundation\ServiceModelReg.exe" -r

PAPI Web Service Authorization

Secure functions will check HTTP header for valid Authorization element.

Authorization - **PWS [PAPIAccessKeyID]:[Signature]**

PWS must be in caps

No space before or after :

[PAPIAccessKeyID] - Assigned by Polaris

[Signature] - The signature is the following, encoded with SHA1 UTF-8:

[HTTPMethod][URI][Date][PatronPassword]

HTTP Method

URI - Construct the URI as you would expect the server to receive it:

Example:

search/bibs/keyword/au?q=roald+dahl&sort=PDTI&limit=TOM=dvd

not

search/bibs/keyword/au?q=roald%20dahl&sort=PDTI&limit=TOM%3Ddvd

Date

Patron Password - Only used when accessing patron specific methods

Use HTTP Date format (RFC1123)

ddd, dd MMM yyyy HH:mm:ss GMT

Example:

Wed, 17 Oct 2012 22:23:32 GMT

If you are unable to set the date in the HTTP header, pass the following name:value pair into the header:

PolarisDate: ddd, dd MMM yyyy HH:mm:ss GMT

PolarisDate: Wed, 17 Oct 2012 22:23:32 GMT

Date must be within +/- 30 minutes of current time or request will fail

Example:

Authorization: PWS polarisdev:8TD4Nfu+cxduZPwqlQMVBuDOvMw=

Private key to create HMAC is assigned by Polaris

Current {version} is **v1**

PAPI Web Service Authorization - Sample Code

In order to build the string (hash), you need data. The data is built by concatenating the HTTP method (GET, PUT, POST, DELETE), URI, Date and Patron Password (if required). The Access Key is the private key assigned by Polaris.

When the routine returns, the caller will be given a hash similar to this example:

8TD4Nfu+cxduZPwqlQMVBuDOvMw=

This hash is then combined with the PAPI Access Key ID and used in the HTTP header, similar to the following example:

Authorization: PWS SOPAC1:8TD4Nfu+cxduZPwqlQMVBuDOvMw=

Sample Android-based Java class:

```
package Polaris.CheckMyLibrary;

import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.SignatureException;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import android.util.Base64;

public class PAPIHash {
    private static final String HMAC_SHA1_ALGORITHM = "HmacSHA1";

    public String GetPAPIHash
    (
        String strAccessKey,
        String strHTTPMethod,
        String strURI,
        String strHTTPDate,
        String strPatronPassword
    )
    {
        String result = "";

        // Get an hmac_sha1 key from the raw key bytes
        byte[] secretBytes = strAccessKey.getBytes();
        SecretKeySpec signingKey = new SecretKeySpec(secretBytes, HMAC_SHA1_
        ALGORITHM);

        // Get an hmac_sha1 Mac instance and initialize with the signing key
        try
        {
            Mac mac;
            mac = Mac.getInstance(HMAC_SHA1_ALGORITHM);
            mac.init(signingKey);
```

```
String data = "";
    if (strPatronPassword.length() > 0)
        data = strHTTPMethod + strURI + strHTTPDate +
            strPatronPassword;

    else

        data = strHTTPMethod + strURI + strHTTPDate;

    // Compute the hmac on input data bytes
    byte[] rawHmac = mac.doFinal(data.getBytes());

    // Convert raw bytes to Hex
    result = Base64.encodeToString(rawHmac, 0);

}
catch (NoSuchAlgorithmException e1)
{
    // TODO Auto-generated catch block
    e1.printStackTrace();
}

catch (InvalidKeyException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}

return result;
}
}
```

Sample C# Method:

```
public string GetPAPIHash(string strAccessKey, string strHTTPMethod,
string strURI, string strHTTPDate, string strPatronPassword)

{
    byte[] secretBytes = UTF8Encoding.UTF8.GetBytes(strAccessKey);
    HMACSHA1 hmac = new HMACSHA1(secretBytes);

    // Computed hash is based on different elements defined by URI
    byte[] dataBytes = null;

    if (strPatronPassword.Length > 0)

        dataBytes = UTF8Encoding.UTF8.GetBytes(strHTTPMethod + strURI +
            strHTTPDate + strPatronPassword);

    else

        dataBytes = UTF8Encoding.UTF8.GetBytes(strHTTPMethod +
            strURI + strHTTPDate);

    byte[] computedHash = hmac.ComputeHash(dataBytes);
    string computedHashString =
        Convert.ToBase64String(computedHash);
}
```

```
return computedHashString;  
}
```

Web.config - AuthenticationLevel

ALL - Require authentication for all API calls (default)

PATRON - Require authentication for Patron related API calls

NONE - Authentication is not required (debug purposes only)

Web.config - appSettings Keys

The following appSettings keys are supported in the web.config file:

Key	Values
ApplicationName	Used to create log folder and filename
LogMessagesLevel	GENERAL - All General and error messages ERROR - Error messages only DEBUG - All general, debug and error messages
LogMessagesPurge	true/false - Automatically delete log files older than 30 days. Default: True
LogMessagesVersionStamp	true/false - Add the version to the log file name. Default: False
LogMessagesDateStamp	true/false - Add a date stamp to the log file name. Default: False
LogMessagesStackMethod	true/false - Record the object and method name in the log file entry. This is automatically done for DEBUG and ERROR settings. Default: True

Key	Values
ERMSNetworkAddress	Override the default ERMS Network Address.
ExremalHostname	Specify override if the external URI request host name is different than local domain name. Setting this option will affect how the PAPI hash is calculated. Example: Incoming request uses papiserver.mylibrary.org, server's local name is papi.local.org

SSL in Polaris 4.0.676 and later; 4.1.442 and later

All protected method calls require SSL using HTTPS. This is to ensure that all sensitive data such as domain account information is encrypted. If a protected method is called without an HTTPS connection, a “403 - Forbidden” error will be returned. For more information, see [SSL Requirements for Protected Methods](#).

You can configure the PAPIService web.config file to support the following:

- HTTP only - Only public methods are allowed
- HTTPS only - Only protected methods allowed
- HTTP and HTTPS - Both public and protected methods allowed

By default, the web.config file is setup to support HTTP only. Enabling both HTTP and HTTPS will be required if protected methods are utilized and support for existing PAPI-based applications is desired.

In order to support HTTPS only, one of two changes must be made:

Comment out the service endpoint element that uses the “PAPIWebBinding” bindingConfiguration. Uncomment the service endpoint element that uses the “PAPISecureWebBinding” binding configuration.

Change the PAPIWebBinding binding security mode from None to Transport. That is, change `<security mode="None">` to `<security mode="Transport">`

Important:

Once set to Transport, ALL PAPI method calls (public and protected) must use HTTPS.

In order to support both HTTP and HTTPS, simply uncomment the service endpoint element that uses the “PAPISecureWebBinding” binding configuration.

Support for XML and JSON Data Exchange Formats

The Polaris API supports both XML and JSON (JavaScript Object Notation) data exchange formats. The caller may choose to use JSON by specifying the content type in the HTTP request header. By default, XML will be used.

HTTP Request Header

To specify JSON, you may add the following to the HTTP request header:

Content-Type: application/json

Accept: application/json

To specify XML (the default), you may add the following to the HTTP request header:

Content-Type: application/xml

Accept: application/xml

Note:

The HTTP request header must provide the "Content-Length" when using the request body.

JSON and DateTime Fields

All DateTime fields are nullable. The default is no longer MinValue.

JSON - GetBib

Example HTTP data returned by a call to GetBib using JSON as the content type:

```
HTTP/1.1 200 OK
Cache-Control: private
Content-Length: 1480
Content-Type: application/json; charset=utf-8
Server: Microsoft-IIS/7.5
X-AspNet-Version: 4.0.30319
X-Powered-By: ASP.NET
Date: Fri, 07 Jan 2011 19:06:54 GMT

{"PAPIErrorCode":0,"ErrorMessage":"","BibGetRows":[{"ElementID":35,"Occurrence":1,"Label":"Title:","Value":"The wind in the willows \\/ illustrated by Ernest H. Shepard.","Alternate":false}, {"ElementID":18,"Occurrence":1,"Label":"Author:","Value":"Grahame, Kenneth, 1859-1932.","Alternate":false}, {"ElementID":2,"Occurrence":1,"Label":"Publisher, Date:","Value":"New York : Scribner, 1961, c1933.","Alternate":false}, {"ElementID":3,"Occurrence":1,"Label":"Description:","Value":"259 p. : illus. ; 21 cm.","Alternate":false}, {"ElementID":17,"Occurrence":1,"Label":"Format:","Value":"Book","Alternate":false}, {"ElementID":21,"Occurrence":1,"Label":"Other Author:","Value":"Shepard, Ernest H. (Ernest Howard), 1879-1976.","Alternate":false}, {"ElementID":28,"Occurrence":1,"Label":"Notes:","Value":"\\\"Atheneum Books for Young Readers\\\"","Alternate":false}, {"ElementID":28,"Occurrence":2,"Label":"Notes:","Value":"The adventures of
```

```
four amiable animals, Rat, Toad, Mole and Badger, along a river in the
English countryside.", "Alternate": false}, {"ElementID": 6, "Occurrence": 1, "Label": "ISBN:", "Value": "0684128195", "Alternate": false}, {"ElementID": 7, "Occurrence": 1, "Label": "System Availability:", "Value": "4", "Alternate": false}, {"ElementID": 8, "Occurrence": 1, "Label": "Current Holds:", "Value": "0", "Alternate": false}, {"ElementID": 13, "Occurrence": 1, "Label": "Call Number:", "Value": "J Fict Gra", "Alternate": false}, {"ElementID": 16, "Occurrence": 1, "Label": "System Items Available:", "Value": "3", "Alternate": false}]}
```

JSON - HoldRequestCreate

Example HTTP Request Body when using the POST command with JSON:

```
{"PatronID": 299377, "BibID": "15593", "ItemBarcode": "", "VolumeNumber": "", "Designation": "", "PickupOrgID": "74", "IsBorrowByMail": "0", "PatronNotes": "", "ActivationDate": "\\Date(1295352000000)\\", "WorkstationID": "1", "UserID": "1", "RequestingOrgID": "74", "TargetGUID": ""}
```

JSON - ItemRenewAllForPatron

Example HTTP Request body when using the PUT command with JSON:

```
{"Action": "renew", "LogonBranchID": "74", "LogonUserID": "1", "LogonWorkstationID": "1", "RenewData": {"IgnoreOverrideErrors": true}}
```

JSON - PatronAccountPay

Example HTTP Request body when using the PUT command with JSON:

```
{"TxnAmount": "2.95", "PaymentMethodID": "11", "FreeTextNote": "Paid through Polaris API"}
```

Date Format when using JSON

Because JSON does not have a standard way of describing dates, the following format must be used:

"VDate(1295352000000)V"

The number represents the number of milliseconds since January 1st 1970 UTC.

1295352000000 represents Tuesday, January 18, 2011 7:00:00 AM.

XML Elements

The order of XML elements matters! (You will see reminders throughout this document.)

Examples of SHA1 Encoding

<http://msdn.microsoft.com/en-us/library/dd203052.aspx>

<http://en.wikipedia.org/wiki/Sha1>

Example using <http://jssha.sourceforge.net/>

```
<script type="text/javascript" src="../../src/sha.js"></script>
<script type="text/javascript">
function TestHash() {
var txt =
"GEThttp://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022Wed, 09 Oct 2009
22:23:32 GMT1234";
var shaObj = new jsSHA(txt, "ASCII");
alert(shaObj.getHMAC("9573D875-42AC-45b6-B68D-29DABE1E7419", "ASCII", "SHA-1", "B64"));
}
</script>
```

PAPI Protected Methods

The PAPI Service supports protected methods. These are functions that might be performed by a staff member and not a patron. The staff member must authenticate with the PAPI service using the AuthenticateStaffUser method (see AuthenticateStaffUser) over a secure connection. Domain account information will be exchanged and verified only once. If successful, the user will be provided an AccessToken and AccessSecret which will be used for the remainder of their operations. SA_GetValueByOrg, below, is an example of how to use this authentication mechanism. A PAPI Processing job, which runs at 5:30 a.m., deletes expired authentication tokens. The job calls the PAPI_DeleteExpiredAuthTokens database stored procedure which checks the PAPIStaffAuthentication table's AuthenticationExpDate column.

Using Protected Methods

Once you have authenticated using the AuthenticateStaffUser method, you may use the protected methods. The access token and access secret returned by the AuthenticateStaffUser method are required for all protected calls. The access token is valid for 24 hours. All protected methods contain the access token in the URI. When creating the authentication signature, the AccessSecret is appended to the data being hashed.

Example:

[HTTP Method][URI][HTTP Date][Access Secret]

Note that AuthenticateStaffUser does not require the “AccessSecret” when building the signature.

Example calling a protected method:

SA_GetValueByOrg

https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/[AccessToken]/organization/1/sysadmin/attribute/ORGPONE1

HTTP Verb: GET

Authorization Required: Yes

Header:

Date: Sat, 14 May 2011 22:23:32 GMT

Authorization: PWS polarisdev:ZasTURsRdlEHeKgda1MGXROUxTI=

Content-Type: text/xml

Staff and Patron Logon to PAPI

Staff users must be registered staff members in Polaris ILS. Staff logon requires the staff member's Polaris **domain\username** and password.

Patron logon requires the patron's library account barcode and password: **patronbarcode\password**.

Using Public Methods as an Authenticated Staff User

In some scenarios, as an authenticated staff user, you may want to call a public method that requires the patron's password. Instead of looking up the patron's password, you may build the authentication signature using the AccessSecret. Because the public method does not contain the AccessToken in the URI, you simply pass in a custom HTTP header field called X-PAPI-AccessToken. The PAPI Service will look for the X-PAPI-AccessToken header field and act accordingly.

Note:

This process may fail to work if a firewall or network device is configured to remove non-standard HTTP header fields.

SSL Requirements for Protected Methods

SSL must be used because domain account information is being passed to perform the initial account authentication.

SSL must be enabled in the PAPI Service by changing the security mode to Transport.

Important:

Once set to Transport, ALL PAPI method calls (public and protected) must use HTTPS.

The certificate must be installed in the IIS web site.

PAPI Service must contain binding on port 443 to the web server certificate.

Development Tools - Fiddler2 (Freeware)

<http://www.fiddler2.com/fiddler2/>

PAPI Error Codes

The following error codes may be returned from the Polaris RESTAPI.

Code	Reason
General	
Any positive number	Represents either the count of rows returned or the number of rows affected by the procedure. See individual procedure definitions for details.
0	Success
-1	FAILURE - General
-2	Multiple errors. See returned rowset for list of errors.
-3	PARTIAL FAILURE - Multiple errors (but some items succeeded). See returned rowset for list of errors.
-4	FAILURE - ERMS error
Bibliographic Errors - [1000-1999]	
-1000	Invalid BibliographicRecordID specified
Item/Holdings Errors - [2000-2999]	
-2000	Invalid ItemRecordID specified
-2001	Invalid barcode specified
-2002	Duplicate barcode specified
Patron Errors - [-201, -221; -501; 3000-3999]	
-201	Failed to insert entry in addresses table
-221	Failed to insert entry in PostalCodes table
-501	Patron personal information change is not allowed
-3000	Patron does not exist
-3001	Failed to insert entry in Patrons table
-3400	Failed to insert entry in

Code	Reason
	Patronaddresses table
-3500	Country code does not exist
-3501	Patron branch is not defined
-3502	Patron branch is not a valid branch
-3503	Last name is not defined
-3504	First name is not defined
-3505	Barcode is already used for another patron
-3506	Transaction branch is not defined
-3507	Transaction user is not defined
-3508	Transaction workstation is not defined
-3509	Passwords do not match
-3510	Postal code problems - mismatch city, state, county
-3511	Postal code problems - mismatch city, state
-3512	Postal code problems - mismatch city, county
-3513	Postal code problems - mismatch state, county

Code	Reason
-3514	Postal code problems - mismatch county
-3515	Postal code problems - mismatch state
-3516	Postal code problems - mismatch city
-3517	Postal code problems - postal code not found
-3518	Invalid Email address
-3519	Invalid DeliveryMethod Value (No Address for Patron)
-3520	Invalid DeliveryMethod Value (No Email Address for Patron)
-3521	Invalid DeliveryMethod Value (No PhoneVoice1 for Patron)
-3522	Invalid DeliveryMethod Value (No PhoneVoice2 for Patron)
-3523	Invalid DeliveryMethod Value (No PhoneVoice3 for Patron)
-3524	Invalid DeliveryMethod Value (No PhoneFax for Patron)
-3525	Invalid DeliveryMethod Value
-3526	Invalid EmailFormat Value
-3527	Invalid ReadingList Value

Code	Reason
-3528	Duplicate name
-3529	Duplicate username
-3530	Failed to insert entry in Patron Registration table
-3532	Invalid PhoneVoice1 value
-3533	Invalid password format
-3534	Invalid Password length
-3535	Patron password change is not allowed
-3600	Charge transaction does not exist
-3601	Charge transaction for this patron does not exist
-3602	Payment method for payment is invalid
-3603	Invalid amount is being paid
-3604	Invalid transaction type being paid
-3605	General patron account database error
-3606	Payment transaction does not exist

Code	Reason
-3607	Payment transaction for this patron does not exist
-3608	Payment transaction cannot be voided because another action taken on payment
-3610	Payment amount is more than the sum of the charges
-3612	Invalid PatronCodeID
-3613	Invalid PhoneVoice2
-3614	Invalid PhoneVoice3
-3615	Invalid Alt Email Address
-3616	Invalid TXTPhoneNumber
-3617	Invalid PhoneCarrier
-3619	Invalid DeliveryMethod No Phone
-3620	Invalid Email Address for EReceipt
Hold Request Errors - [4000-4999]	
-4000	Invalid application ID supplied
-4001	Invalid patron ID supplied
-4002	Invalid workstation ID supplied
-4003	Invalid request ID supplied
-4004	Invalid requesting org ID supplied
-4005	Invalid patron barcode
-4006	Invalid bibliographic record ID supplied
-4007	Invalid pickup org ID supplied
-4016	Cannot change pickup branch for request in statusID
-4100	Invalid request GUID supplied
-4101	Invalid txn group qualifier supplied

Code	Reason
-4102	Invalid txn qualifier supplied
-4103	Invalid answer supplied
-4104	Invalid state supplied
-4201	Invalid request ID supplied
-4202	Invalid current org ID supplied
-4203	Cancel prevented for hold requests with status of Held.
-4204	Cancel prevented for hold request with status of Unclaimed.
-4300	No requests available to cancel
-4400	Invalid Application date supplied
-4401	Application date must be greater than or equal to today's date
-4402	Application date must be earlier than 2 years from today
-4403	Invalid pickup branch assigned to hold request
-4404	Error occurred loading SA "days to expire"
-4405	Request must have a status of Active, Inactive or Pending
-4406	No requests available to suspend
-4407	Request status invalid for this process
-4408	Invalid request status change requested
-4409	Invalid hold user not supplied reason
-4410	This is the only item available for hold

Code	Reason
-4411	No other items at other branches are available to fill this hold
Organization Errors - [5000-5999]	
-5000	Invalid OrganizationID specified
Circulation Errors - [6000-6999]	
-6000	Invalid loan unit supplied
-6001	ItemCheckout record does not exist
Course Reserve Errors - [7000-7999]	
-7000	Invalid CourseReserveID specified
PolarisUser Errors - [8000-8999]	
-8000	Invalid PolarisUserID specified
-8001	Polaris user is not permitted
Workstation Errors - [9000-9999]	
-9000	Invalid WorkstationID specified
Record Set Errors - [9000-9999]	
-11000	Supplied recordSetID is not of type patron
-11001	RecordSetID does not exist

Application IDs

The following IDs are associated with the ApplicationID columns in all stored procedure calls.

ID	Application (Product)
1	PowerPAC
2	Children's PAC
3	ActivePAC

ID	Application (Product)
4	ExpressCheck
5	Inbound Telephony
6	Outbound Telephony
7	Notices
8	ILL
9	Polaris Fusion
10	Acquisitions Exchange
11	Mobile Pac
12	SIPService
13	NCIPService
100	Third-party

Material Format Types

The following IDs are associated with the FormatID columns in several of the returned row-sets.

ID	Searchcode	Format Description
1	bks	Book
2	mus	Printed or Manuscript Music
3	cmt	Cartographic Material
4	vis	Visual Materials
5	rec	Sound Recording
6	elr	Electronic Resources
7	mix	Archival Mixed Materials
8	ser	Serial
9	pmu	Printed Music
10	mmu	Manuscript Music
11	pmc	Printed Cartographic Material
12	mcm	Manuscript Cartographic Material
13	map	Map
14	glb	Globe
15	mss	Manuscript Material
16	pgr	Projected Medium
17	mot	Motion Picture
18	vid	Video Recording
19	ngr	Two Dimensional Non-projected Graphic
20	art	Three Dimensional Object
21	msr	Musical Sound Recording
22	nsr	Nonmusical Sound Recording

ID	Searchcode	Format Description
23	kit	Kit
24	per	Periodical
25	new	Newspaper
26	mic	Microform
27	lpt	Large Print
28	brl	Braille
33	dvd	DVD
34	vcr	Videotape
35	mcd	Music CD
36	ebk	eBook
37	abk	Audio Book
38	dmc	Digital Collection
39	abs	Abstract
40	brd	Blu-ray Disc
41	aeb	Eaudiobook
42	bcd	Book + CD
43	bcs	Book + Cassette
44	vgm	Video Game
45	bdv	Blu-ray + DVD
46	bkv	Book + DVD
47	atl	Atlas
48	stm	Streaming Music
49	stv	Streaming Video
50	emg	Emagazine
51	vyl	Vinyl
52	abc	Audio Book on CD
53	abt	Audio Book on Cassette

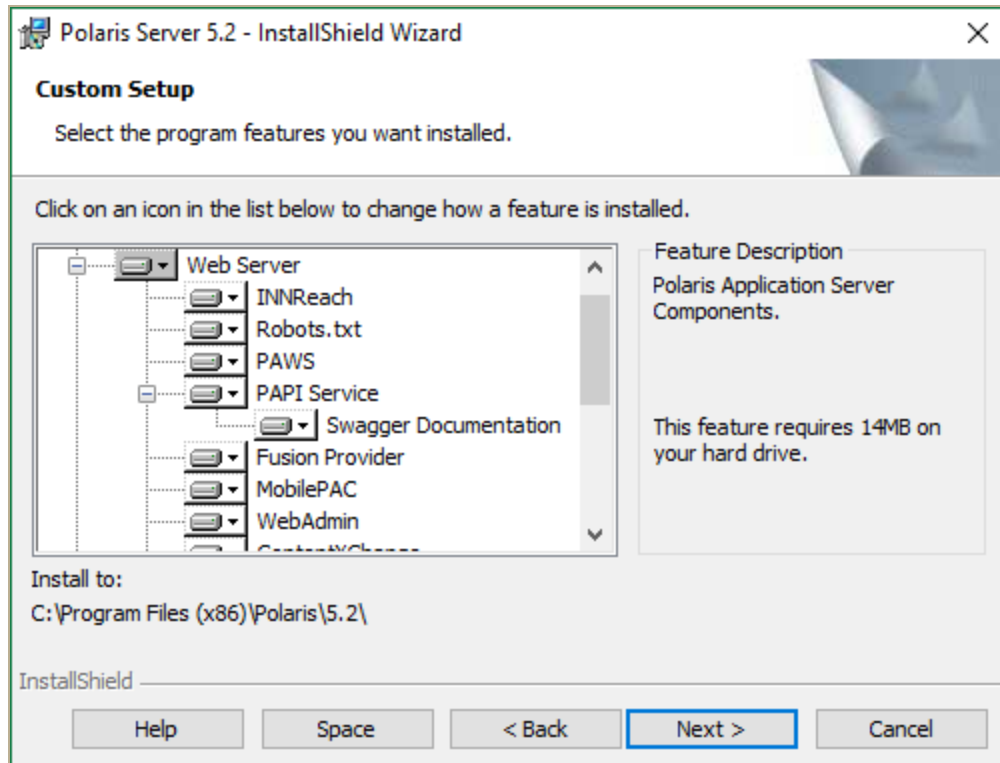
General URI Parameters

Name	Required	Description/Notes
app-ID	Yes	Calling application (product) ID (see 'Application IDs')
org-ID	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
bib-ID	Yes	Is the record identifier.
lang-ID	Yes	Is the language identifier of the Label. Possible values include: 1033 - English 1042 - Korean 1049 - Russian 1065 - Farsi 1066 - Vietnamese 1141 - Hawaiian 2052 - Chinese 3082 - Spanish 3084 - French 12289 - Arabic 15372 - Haitian Creole

PAPI and Swagger

Swagger is an open-source framework for REST APIs. Effective as of Polaris 5.2, the Polaris API has a Swagger endpoint which provides code and documentation to Polaris customers and third-party vendors who use the Polaris API. For more information about Swagger, go to <http://swagger.io/>.

A Polaris Web Server installation option provides access to the Polaris Swagger endpoint.



AuthenticatePatron

A call to AuthenticatePatron is required before calling any public method that requires a patron's password. Upon success, this method will return an access token. The access token will be used in place of the patron's password when building the hash for secure patron methods.

Note:

It is strongly recommended that HTTPS be used with this call. The HTTP body data will contain the patron's barcode and password.

URI

/public/{version}/{lang_ID}/{app_ID}/{org_ID}/authenticator/patron

HTTP Verb

POST

Request Body XML

```
<PatronAuthenticationData>
<Barcode></Barcode>
<Password></Password>
</PatronAuthenticationData>
```

XML Body Elements

Name	Required	Description/Notes
Barcode	Yes	Barcode or Username
Password	Yes	Password

Authorization Required?

Yes

XML Elements Returned

Name	Description/Notes
AccessToken	Access token to be used in place of the patron's password when building the hash for patron methods.
PatronID	Patron ID

Example

`https://[hostname]/PAPIService/REST/public/v1/1033/100/1/authenticator/patron`

Header

Date: Sat, 14 May 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

```
<PatronAuthenticationData>
<Barcode>21756003332060</Barcode>
<Password>1234</Password>
</PatronAuthenticationData>
```

Return

```
<PatronAuthenticationResult>
<PAPIErrorCode>0</PAPIErrorCode>
<ErrorMessage/>
<AccessToken>$2a$10$nN4s2fmVtX.9PQnczt5zTOMTKFLrV/vZIDsoqAuaVANcRR14q0F3K<-
/AccessToken>
<PatronID>358255</PatronID>
</PatronAuthenticationResult>
```

Error Code

-3001 Unable to authenticate the patron credentials

AuthenticateStaffUser

A call to `AuthenticateStaffUser` is required before calling any protected methods. Upon success, this method will return an access token and access secret. These will be used to create the hash for protected methods. The access token is valid for 24 hours. Subsequent calls to `AuthenticateStaffUser` with the same domain account information will generate a new access token, access secret and expiration date. For more information about protected methods, see PAPI Protected Methods.

Process Overview

`IsAuthorizedPAPIPolarisUser`

`PAPI_IsAuthorizedPAPIPolarisUser` - Verifies the user is in the `PolarisUsers` table and returns a `PolarisUserID`

`IsStaffAuthenticationLocked`

`PAPI_IsStaffAuthenticationLocked` - Check `PAPIStaffAuthenticationFailures` database table. If 3 failed attempts made in last 5 minutes, temporarily lock account.

Authenticate user against the domain

If failed:

- **Call `PAPI_StaffAuthenticationFailed`.**
- **Update `PAPIStaffAuthenticationFailures` database table**

If success:

- **Call `PAPI_StaffAuthenticationSucceeded`.**
- **Return Access Token and Access Secret**
- **Set `AuthenticationExpDate` to current time + 1 day**
- **Reset entry in `PAPIStaffAuthenticationFailures` database table**

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/authenticator/staff`

HTTP Verb

POST

Request Body XML

```
<AuthenticationData>
  <Domain></Domain>
  <Username></Username>
  <Password></Password>
</AuthenticationData>
```

XML Body Elements

Name	Required	Description/Notes
Domain	Yes	Domain name
Username	Yes	Username
Password	Yes	Password

Authorization Required?

Yes

XML Elements Returned

Name	Description/Notes
AccessToken	Access token to be used in URI of protected method calls
AccessSecret	AccessSecret used to create hash when calling protected methods
PolarisUserID	Polaris User ID
BranchID	Polaris User's Default Branch ID
AuthExpDate	Expiration date of provided access token

Example

`https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/authenticator/staff`

Header

Date: Sat, 14 May 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

```
<AuthenticationData>  
  <Domain>TestDomain</Domain>  
  <Username>StaffUser1</Username>  
  <Password>mypassword</Password>  
</AuthenticationData>
```

Return

```
<AuthenticationResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <AccessToken>IGYhCPGcutuKmZFcKUystVAkgmi4g1Db</AccessToken>  
  <AccessSecret>B8sD7y0CYOhlslyk</AccessSecret>  
  <PolarisUserID>799</PolarisUserID>  
  <BranchID>5</BranchID>  
  <AuthExpDate>2011-07-26T15:48:39.437</AuthExpDate>  
</AuthenticationResult>
```

BibGet

Returns bibliographic information for a specified record.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/bib/{bib-ID}`

HTTP Verb

GET

Authorization Required?

Yes, if authentication level set to ALL

XML Elements Returned

Name	Description/Notes
ElementID	Is the element identifier. Possible values include: 2 - Publisher 3 - Description 5 - Edition 6 - ISBN 7 - System Items Total 8 - Current Holds 9 - Summary 10 - Local Items Total 11 - Control Number 13 - Call Number 15 - Local Items Available 16 - System Items Available 17 - Format 18 - Author 19 - Series 20 - Subject 21 - Added Author 22 - Added Title 23 - LCCN 24 - ISSN 25 - Other Number 27 - Genre 28 - Notes 29 - Contents 30 - Publisher Number 33 - Web Link

Name	Description/Notes
	34 - Uniform Title 35 - Title 36 - Volume 37 - Frequency 39 - Former Title 40 - Later Title 41 - STRN 42 - GPO Item Number 43 - CODEN 44 - Target Audience 46 - Medium
Occurrence	Is the occurrence of an element. The occurrence of a given element matches the relative order of the underlying data in the MARC record.
Label	Is the label associated with the element in the language specified by the LanguageID input parameter.
Value	Is the value of the element be used for display purposes.
Alternate	Is a flag that indicates whether this row contains an alternate graphic representation associated with closest preceding row where the Alternate value equals zero. If this flag is set to one then the value originated from an 880 tag. Note: If an 880 tag is not linked via \$6 to specific data field instance then the Alternate flag will be set to zero.

Remarks

The properties Local Items Total (10) and Local Items Available (15) will not be included in the returned rowset if the organization identifier is set to system (1).

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/bib/5000>

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```

<BibGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><BibGetRows><BibGetRow>
<ElementID>18</ElementID><Occurrence>1</Occurrence><Label>Author:</Label><Value>
Grahame, Kenneth, 1859-
1932.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>35</Ele
mentID><Occurrence>1</Occurrence><Label>Title:</Label><Value>The wind in the willows /
illustrated by Ernest H.
Shepard.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>2</E
lementID><Occurrence>1</Occurrence><Label>Publisher, Date:</Label><Value>New York :
Scribner, 1961,
c1933.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>3</Ele
mentID><Occurrence>1</Occurrence><Label>Description:</Label><Value>259 p. : illus. ; 21
cm.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>17</Elem
entID><Occurrence>1</Occurrence><Label>Format:</Label><Value>Book</Value><Alternate
>>false</Alternate></BibGetRow><BibGetRow><ElementID>21</ElementID><Occurrence>1</
Occurrence><Label>Other Author:</Label><Value>Shepard, Ernest H. (Ernest Howard), 1879-
1976.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>28</Ele
mentID><Occurrence>1</Occurrence><Label>Notes:</Label><Value>"Atheneum Books for
Young
Readers"</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>28</
ElementID><Occurrence>2</Occurrence><Label>Notes:</Label><Value>The adventures of
four amiable animals, Rat, Toad, Mole and Badger, along a river in the English
countryside.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>6
</ElementID><Occurrence>1</Occurrence><Label>ISBN:</Label><Value>0684128195</Value
><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>7</ElementID><Occ
urrence>1</Occurrence><Label>System
Availability:</Label><Value>4</Value><Alternate>>false</Alternate></BibGetRow><BibGetR
ow><ElementID>8</ElementID><Occurrence>1</Occurrence><Label>Current
Holds:</Label><Value>0</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><
ElementID>13</ElementID><Occurrence>1</Occurrence><Label>Call
Number:</Label><Value>J Fict
Gra</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>16</Elem
entID><Occurrence>1</Occurrence><Label>System Items
Available:</Label><Value>3</Value><Alternate>>false</Alternate></BibGetRow></BibGetRo
ws></BibGetResult>

```

Return - Failed

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```

<BibGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-
1</PAPIErrorCode><ErrorMessage>Invalid BibID</ErrorMessage><BibGetRows
i:nil="true"/></BibGetResult>

```

BibSearch

Returns list of bibliographic records that match search criteria. For boolean searches, you may opt to include the SORT or SORTBY clause when using the **q** query string parameter. SORT has priority over SORTBY. This returns search results sorted in the specified sort order. Example:

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/search/bibs/boolean?q=frog&sortby=ti

Note:

Neither string value should be supplied if the SORTBY command is in the CCL query;
example: **/public/{version}/{lang-ID}/{app-ID}/{org-ID}/search/bibs/boolean?q=frog+sortby+PD/sort.descending**

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/search/bibs/keyword/{qualifierName}?q={terms}
/public/{version}/{lang-ID}/{app-ID}/{org-ID}/search/bibs/keyword/{qualifierName}/{terms}
[deprecated]

{qualifierName}

KW|TI|AU|SU|NOTE|PUB|GENRE|SE|ISBN|
ISSN|LCCN|PN|LC|DD|LOCAL|SUDOC|CODEN|STRN|CN|BC|

{terms}

Must be URL encoded.

{ccl}

Common Command Language snippet. Must be URL encoded.

Parameters

Name	Values	Required	Description/Notes
q	string	Yes - Keyword without terms and Boolean	Terms. Allows for special characters. Example: Harry%20Potter Auto*
sortby	string (in query string parameter)		These apply to SORTBY when used in the q string parameter: RELEVANCE - Relevance MP/sort.descending - Most Popular AU - Author TI - Title CALL - Call Number PD/sort.descending - Publication Date Descending AUTI - Author, then Title AUPD - Author, then Publication Date Descending TIAU - Title, then Author TIPD - Title, then Publication Date Descending TITOM - Title , then Type of Material PDAU - Publication Date Descending, then Author PDTI - Publication Date Descending, then Title CALLAU - Call Number, then Author CALLTI - Call Number, then Title CALLPD - Call Number, then Publication Date Descending

Name	Values	Required	Description/Notes
sortby	string (in CCL string)		These apply to SORTBY when used in the CCL string: RELEVANCE - Relevance AU - Author AU PD/sort.descending - Author, then Publication Date Descending AU PD/sort.descending TI - Author, then Publication Date Descending, then Title AU TI - Author, then Title CALL - Call Number CALL AU - Call Number, then Author CALL AU TI - Call Number, then Author, then Title CALL PD/sort.descending - Call Number, then Publication Date Descending CALL PD/sort.descending TI - Call Number, then Publication Date Descending, then Title CALL PD/sort.descending - Call Number, then Publication Date Descending MP/sort.descending - Most Popular PD/sort.descending - Publication Date Descending PD/sort.descending AU - Publication Date Descending, then Author PD/sort.descending AU TI - Publication Date Descending, then Author, then Title PD/sort.descending TI - Publication Date Descending, then Title TI - Title TI AU - Title, then Author TI PD/sort.descending - Title, then Publication Date Descending TI TOM - Title, then Type of Material

Name	Values	Required	Description/Notes
limit	string		Partial CCL command. Examples: TOM=dvd TOM=dvd AND AB=74 See LimitFiltersGet for valid options
page	int		Default is 1, for first page
bibspage	>0		Default is 10
notran	>0		Do not record search transaction in the Polaris Transactions database.

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/search/bibs/keyword/au?q=roald%20dahl&sortby=PDTI&limit=TOM=dvd&bibspage=2`

`http://localhost/PAPIService/REST/public/v1/1033/100/1/search/bibs/keyword/au/roald%20dahl?sort=PDTI&limit=TOM=dvd&bibspage=2` [deprecated]

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<BibSearchResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>2</PAPIErrorCode><ErrorMessage/><WordList>roald dahl dvd
&#x0;</WordList><TotalRecordsFound>9</TotalRecordsFound><BibSearchRows><BibSear
chRow><Position>1</Position><ControlNumber>675617</ControlNumber><Title>Roald
Dahl's The BFG (Big friendly giant) [DVD]</Title><Author/><Publisher>Arlington, VA :
A&E Home Video ; New York : Distributed by New Video,
[2006]</Publisher><Edition/><PublicationDate>2006</PublicationDate><ISBN>076708988X<
/ISBN><Description>1 videodisc (DVD) (ca. 88 min.) : sd., col. ; 4 3/4
in.</Description><WebLink/><Fiction/><TypeOfMaterial>33181604</TypeOfMaterial><Primar
yTypeOfMaterial>33</PrimaryTypeOfMaterial><CallNumber>ROAL</CallNumber><CourseR
eserveCount>0</CourseReserveCount><LocalItemsIn>0</LocalItemsIn><LocalItemsTotal>0
</LocalItemsTotal><SystemItemsIn>8</SystemItemsIn><SystemItemsTotal>13</SystemItem
sTotal><CurrentHoldRequests>0</CurrentHoldRequests><KWIC>&lt;span&gt;&lt;b&gt; ...
&lt;/b&gt;&lt;b&gt;&lt;b&gt;Roald&lt;/b&gt; &lt;b&gt;Dahl&lt;/b&gt;'s The BFG (Big friendly giant)
[&lt;b&gt;DVD&lt;/b&gt;] / a Cosgrove Hall Production ; producers, Mark Hall and Brian
&lt;b&gt; ...
&lt;/b&gt;&lt;/span&gt;</KWIC><RetentionStatement/><HoldingsStatement/><HoldingsNote
/><Summary>One night, Sophie is snatched from her bed at Mrs. Clonkers' orphanage by
an awesome giant who whisks her away on a magical and funny
adventure.</Summary><OCLC/><UPC>733961758009</UPC><TargetAudience/><Medium>
[DVD]</Medium><ThumbnailLink/><VernacularTitle/><VernacularAuthor/><VernacularPubli
sher/><LocalControlNumber/><Series/><SeriesSuggestedQuery/><VernacularSeries/></Bib
SearchRow><BibSearchRow><Position>2</Position><ControlNumber>699507</ControlNu
mber><Title>Charlie and the chocolate factory [DVD]</Title><Author/><Publisher>Burbank,
CA : Warner Home Video, c2005.</Publisher><Edition>Widescreen
ed.</Edition><PublicationDate>2005</PublicationDate><ISBN>1419802305</ISBN><Descrip
tion>1 videodisc (DVD)(ca. 115 min.) : sd., col. ; 4 3/4
in.</Description><WebLink/><Fiction/><TypeOfMaterial>33181604</TypeOfMaterial><Primar
yTypeOfMaterial>33</PrimaryTypeOfMaterial><CallNumber>CHAR</CallNumber><CourseR
eserveCount>0</CourseReserveCount><LocalItemsIn>0</LocalItemsIn><LocalItemsTotal>0
</LocalItemsTotal><SystemItemsIn>1</SystemItemsIn><SystemItemsTotal>2</SystemItems
Total><CurrentHoldRequests>0</CurrentHoldRequests><KWIC>&lt;span&gt;&lt;b&gt; ...
&lt;/b&gt;Charlie and the chocolate factory [&lt;b&gt;DVD&lt;/b&gt;] / Warner Bros. Pictures
presents in association with Village &lt;b&gt; ... &lt;b&gt;&lt;b&gt;Dahl&lt;/b&gt;,
&lt;b&gt;Roald&lt;/b&gt;. Charlie and the chocolate factory.&lt;b&gt; ...
&lt;/b&gt;&lt;/span&gt;</KWIC><RetentionStatement/><HoldingsStatement/><HoldingsNote
/><Summary>Charlie and five others draw golden tickets from Wonka chocolate bars and
win a guided tour of the legendary candy factory that no outsider has seen in 15 years.
Dazzled by one amazing sight after another, Charlie is drawn into Wonka's fantastic
world.</Summary><OCLC/><UPC>012569593374</UPC><TargetAudience>MPAA rating:
PG; for quirky situations, action and mild language.</TargetAudience><Medium>
[DVD]</Medium><ThumbnailLink/><VernacularTitle/><VernacularAuthor/><VernacularPubli
sher/><LocalControlNumber/><Series/><SeriesSuggestedQuery/><VernacularSeries/></Bib
SearchRow></BibSearchRows></BibSearchResult>
```

Return - Failed

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

Notes

Use a boolean search to retrieve titles attached to a headingID.

**`http://localhost/PAPIService/REST/public/v1/1033/100/1/search/bibs/
boolean?q=MAH%3d67282`**

MAH={AuthorHeadingID}

MSH={SubjectHeadingID}

MTE={TitleEntryID}

MSE={SeriesEntryID}

HeadingsSearch returns a hex HeadingID. This must be converted to decimal.

Boolean searches may also be used to construct more complex searches. Example:

AU=Dahl AND TI=Charlie

**`http://localhost/PAPIService/REST/public/v1/1033/100/1/search/bibs/boolean?
q=AU%3dDahl%20AND%20TI%3dCharlie`**

A power search or keyword search transaction is written when the BibSearch method is called.

HeadingsSearch

Searches an ordered list of terms and returns headings information relative to a given start point.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/search/headings/{qualifierName}`

URI Parameters

Name	Required	Description/Notes
qualifierName	Yes	Is the qualifier name. Possible values include: 'AU' - Author 'SE' - Series 'SU' - Subject 'TI' - Title

Query String Parameters

Name	Values	Required	Description/Notes
startpoint	>0	Yes	Is the start point. If there is no matching entry, the first entry with a higher value will be the starting point. Also, if the start point begins with a common leading article (e.g. 'A', 'And' or 'The') and a right-truncated search does not match any entries, then the leading article will be stripped from the start point.
numterms	>0	Yes	Is the number of terms requested
preferredpos	int	Yes	Is the preferred position of the start point within the returned

Name	Values	Required	Description/Notes
			entries. If (nPreferredPositionInResponse = 1) then the first row in the returned rowset corresponds to the start point. If (nPreferredPositionInResponse < 1) then the first row in the returned rowset corresponds to the entry N rows beyond the entry corresponding to the start point where $N = (\text{ABS}(\text{nPreferredPositionInResponse}) + 1)$. If (nPreferredPositionInResponse > 1) then the first row in the returned rowset corresponds to the entry N rows prior to the entry corresponding to the start point where $N = (\text{nPreferredPositionInResponse} - 1)$.
notran	>0		Do not record search transaction in the Polaris Transactions database.

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

XML Elements Returned

Name	Description/Notes
Position	Is the sequential position of the main heading starting with 1. The first occurrence of a row with a distinct Position value will be the main heading.
DisplayType	Is the heading display type. Possible values include: 0 - Main heading 1 - SEE heading (4xx) 2 - SEE ALSO heading (5xx)
DisplayConstant	Is the display constant associated with the heading. If the heading is a main heading, then this column will be NULL. If the heading is a SEE or SEE

Name	Description/Notes
	ALSO heading, then this column will be non-NULL and the Position column will equal the Position column of the row corresponding to the main heading.
DisplayTerm	Is the display term associated with the heading.
GlobalOccurrences	Is the number of records in which the heading occurs.
HeadingID	Is the heading identifier. The HeadingID is a "Hex String" representation of a 4-byte unsigned integer and corresponds to the HeadingID included in the bibliographic extract file where the Alias name is 999-qualifier_name (e.g. 999-AU, 999-SE, 999-SU, 999-TI).

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/search/headings/SU?startpoint=civil%20war&numterms=10&preferredpos=5>

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<HeadingsSearchResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><HeadingsSearchRows><
HeadingsSearchRow><Position>3</Position><DisplayType>0</DisplayType><DisplayConst
ant/><DisplayTerm>Civil society--Russia
(Federation)</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D2
</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>2</Position><Displ
ayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil society--Turkey--History--
20th
century</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D3</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayTy
pe>0</DisplayType><DisplayConstant/><DisplayTerm>Civil
unions</DisplayTerm><GlobalOccurrences>0</GlobalOccurrences><HeadingID>106D5</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayTy
pe>2</DisplayType><DisplayConstant>SEE ALSO:</DisplayConstant><DisplayTerm>Same-
sex
marriage</DisplayTerm><GlobalOccurrences>28</GlobalOccurrences><HeadingID>45AD1<
/HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>0</Position><Displa
yType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil unions--Law and legislation-
United
States.</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D6</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayTy
pe>0</DisplayType><DisplayConstant/><DisplayTerm>Civil
```

```

war</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D7</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayType>2</DisplayType><DisplayConstant>SEE ALSO narrower
term:</DisplayConstant><DisplayTerm>Insurgency</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>285DB</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>2</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil war--Africa--
Drama</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D8</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>3</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil war--Africa, Eastern--History--20th
century</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D9</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>4</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil war--Africa--Fiction.</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106DA</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>5</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil War Discovery Trail (U.S.)</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106DB</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>6</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil war--Drama</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106DC</HeadingID></HeadingsSearchRow></HeadingsSearchRows></HeadingsSearchResult>

```

Return - Failed

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```

<HeadingsSearchResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Could not execute statement on remote server 'ERMS'.</ErrorMessage><HeadingsSearchRows/></HeadingsSearchResult>

```

CollectionsGet

Returns a list of collections based on the organization ID. Branches utilize a subset of collection information maintained at the system level in Polaris. To retrieve a list of all collections in the system, pass in an organization ID of 1. To retrieve a list of collections for a specific branch, pass in the branch ID.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/collections`

URI Parameters

Name	Required	Description/Notes
org-ID	Yes	Organization ID must be 1 (system) or a valid branch ID

HTTP Verb

GET

Authorization required?

Yes

Elements Returned

Name	Description/Notes
ID	ID of collection
Name	Display name of collection
Abbreviation	Collection abbreviation

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/collections`

`http://localhost/PAPIService/REST/public/v1/1033/100/3/collections`

DatesClosed

This method returns a list of dates closed by organization. If the specified organization ID does not exist, an error is returned (Invalid OrgID supplied, -5000).

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/datesclosed`

URI Parameters

Name	Required	Description/Notes
org_id	Yes	Organization ID

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Dates closed for the specified organization.

Name	Description/Notes
DateClosed	Date closed

Example

`https://qa-sat-urn.polarislibrary.com/PAPIService/REST/public/public/v1/1033/100/3/datesclosed`

Header

Date: Fri, 21 Oct 2016 22:23:32 GMT

Authorization: PWS polarisdev:fB5eam199jSdF5lf3SLJ+czTHpM=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<DatesClosedGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage i:nil="true" />
```

```
<DatesClosedRows>
```

```
<DatesClosedRow><DateClosed>2014-08-  
03T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2014-08-  
10T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2014-08-  
17T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2014-08-  
24T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2014-09-  
07T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2014-09-  
14T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2015-07-  
04T00:00:00</DateClosed></DatesClosedRow>
```

```
<DatesClosedRow><DateClosed>2015-12-  
25T00:00:00</DateClosed></DatesClosedRow>
```

```
</DatesClosedRows>
```

```
</DatesClosedGetResult>
```

Error Message

If the organization ID does not exist in the database, error code -5000 ("Invalid OrganizationID supplied") is returned.

BibHoldingsGet

Returns holdings information for a specified bibliographic record.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/bib/{bib-ID}/holdings`

Input Parameters

Name	Required	Description/Notes
bib-ID	Yes	Is the record identifier.

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

XML Elements Returned

The result XML contains one node (BibHoldingsGetRow) for each piece (monograph or serial). The nodes are ordered such that all pieces assigned to a given location/collection are grouped together based on the item availability display configuration settings in Polaris System Administration. For a given location and collection, monographic pieces are always sorted before serial pieces. Monographic pieces are sorted by call number and volume (normalized) in ascending order, and serial pieces are sorted by chronology date in descending order.

Name	Description/Notes
LocationID	Location identifier to which this piece is assigned.
LocationName	Location name to which this piece is assigned.
CollectionID	Collection identifier to which this piece is assigned.
CollectionName	Collection name to which this piece is assigned.
Barcode	Barcode assigned to the piece. If the piece is not associated with an item record then this value will be NULL.
PublicNote	Public note of the piece.
CallNumber	Local call number of the piece.
Designation	Designation assigned to the piece. If the piece is not associated with serial then this value will be NULL.
VolumeNumber	Volume number assigned to the piece. [Added in 4.0]
ShelfLocation	Shelf location assigned to the piece.
CircStatus	Circulation status of the piece. If the piece is checked out then the due date will be appended to the circulation status. Other factors used to determinate the circulation status are outside the scope of this document.
LastCircDate	Last circulation date of the piece. If the piece is not associated with an item record then this value will be NULL.
MaterialType	Material type of the piece. If the piece is not associated with an item record then this value will be NULL.
TextualHoldingsNote	Textual holdings note associated with the assigned location/collection.
RetentionStatement	Retention statement associated with the assigned location.
HoldingsStatement	Holdings statement associated with the assigned location.
HoldingsNote	Holdings note associated with the assigned location.
ItemsTotal	Total number of pieces associated with the assigned location.
ItemsIn	Number of pieces associated with the assigned location and available for check-out.
Holdable	Specifies whether a hold can be placed on the piece.
DueDate	Specifies when the item is due back to the library. [Added in 4.0]

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/bib/5000/holdings>

Return - Success

HTTP/1.1 200 OK Cache-Control: private
Content-Type: application/xml; charset=utf-8

```
<BibHoldingsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><BibHoldingsGetRows><
BibHoldingsGetRow><LocationID>3</LocationID><LocationName>Amsterdam Free
Library</LocationName><CollectionID>25</CollectionID><CollectionName>Children's
Fiction</CollectionName><Barcode>0004300063676</Barcode><PublicNote/><CallNumber>
j Fict
Gra</CallNumber><Designation/><ShelfLocation/><CircStatus>In</CircStatus><LastCircDa
te>Sep 5 2006
</LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStat
ement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>1</Ite
msIn><Holdable>true</Holdable></BibHoldingsGetRow><BibHoldingsGetRow><LocationI
D>9</LocationID><LocationName>Bancroft Public Library
(Salem)</LocationName><CollectionID>25</CollectionID><CollectionName>Children's
Fiction</CollectionName><Barcode>0002200103261</Barcode><PublicNote/><CallNumber>
J Fict
Gra</CallNumber><Designation/><ShelfLocation/><CircStatus>In</CircStatus><LastCircDa
te>Aug 30 2005
</LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStat
ement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>1</Ite
msIn><Holdable>true</Holdable></BibHoldingsGetRow><BibHoldingsGetRow><LocationI
D>11</LocationID><LocationName>Bolton Free
Library</LocationName><CollectionID>25</CollectionID><CollectionName>Children's
Fiction</CollectionName><Barcode>0003800124913</Barcode><PublicNote/><CallNumber>
J Fict
Gra</CallNumber><Designation/><ShelfLocation/><CircStatus>In</CircStatus><LastCircDa
te>Jul 21 2006
</LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStat
ement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>1</Ite
msIn><Holdable>true</Holdable></BibHoldingsGetRow><BibHoldingsGetRow><LocationI
D>25</LocationID><LocationName>Community Library
(Cobleskill)</LocationName><CollectionID>25</CollectionID><CollectionName>Children's
Fiction</CollectionName><Barcode>0001900057256</Barcode><PublicNote/><CallNumber>
j Fict
Gra</CallNumber><Designation/><ShelfLocation/><CircStatus>Lost</CircStatus><LastCirc
Date>Jan 17 2006
</LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStat
ement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>0</Ite
msIn><Holdable>true</Holdable></BibHoldingsGetRow></BibHoldingsGetRows></
BibHoldingsGetResult>
```

Return - Failed

HTTP/1.1 200 OK Cache-Control: private
Content-Type: application/xml; charset=utf-8

```
<BibHoldingsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr
rorCode>-1</PAPIErrorCode><ErrorMessage>Invalid BibID</Er
rorMessage><BibHoldingsGetRows i:nil="true"/></BibHoldingsGetResult>
```

HoldRequestCancel

Cancel a single hold request.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/{request_ID}/cancelled

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.
request_ID	Yes	ID of hold request.

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

HTTP Verb

PUT

Authorization required?

Yes

Example

http://-
loc-
alhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/holdrequests/803425/
cancelled?wsid=1&userid=1

Header

User-Agent: Fiddler
Date: Wed, 28 Apr 2010 14:14:32 GMT
Authorization: PWS polarisdev:TKycQwGL+APCicovsRwass4DecU=
Host: localhost
Content-Type: text/xml
Content-Length: 0

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<HoldRequestCancelResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError
rorCode>0</PAPIErrorCode><ErrorMessage/></HoldRequestCancelResult>

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<HoldRequestCancelResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid workstation ID.
</ErrorMessage></HoldRequestCancelResult>

HoldRequestCancelAllForPatron

Cancel all local hold requests for a specific patron whose hold requests have a status of inactive (1), active (2) or pending (4). Uses the same URI as HoldRequestCancel. Simply passing in a **0** for the RequestID will force a “cancel all” operation.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/0/cancelled`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
SysHoldRequestID	ID of cancelled hold request
ReturnCode	Return code 0 - Success -1 - Failure
ErrorMessage	Error message if not cancelled

Example

http://-
loc-
alhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/holdrequests/0/cancelled?wsid=1&us

Header

User-Agent: Fiddler
Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:cWby7eo3Yom/IiBGmO+I/T6dUoY=
Host: localhost

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<HoldRequestCancelResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><HoldRequestCancelRow
s><HoldRequestCancelRow><SysHoldRequestID>803430</SysHoldRequestID><ReturnCod
e>0</ReturnCode><ErrorMessage/></HoldRequestCancelRow><HoldRequestCancelRow><
SysHoldRequestID>803431</SysHoldRequestID><ReturnCode>0</ReturnCode><ErrorMess
age/></HoldRequestCancelRow></HoldRequestCancelRows></HoldRequestCancelResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<HoldRequestCancelResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>-4300</PAPIEr-  
rorCode><ErrorMessage/><HoldRequestCancelRows/></HoldRequestCancelResult>
```

HoldRequestCreate

Start the local hold request process. This process is based on a “messaging” system and will allow a Polaris patron to place a local hold request. After calling the HoldRequestCreate method, one or more calls to the HoldRequestReply method may be required. The message exchange is complete when a StatusType of Error (1) or Answer (2) is returned or if an error is raised via a database exception.

Notes - Placing Hold Requests Against Serial Publications

Although a call to BibGet will return a format of **Serial**, Polaris logic that is not exposed in the API determines whether the record is actually a “serial bib.” However, if you default to “first available copy,” the library member can get a copy quicker. Here are the possibilities:

Bib ID and item barcode - Item-specific request

Bib ID, item barcode, and item’s volume number - First available copy of a specific volume or issue

Bib ID and item’s designation - First available copy of a specific “serial bib”

Bib ID and item’s volume number - First available copy of a specific multi-part set bib

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/holdrequest`

Request Body XML

Important:

XML elements must be in the order shown below.

<HoldRequestCreateData>

<PatronID/>

<BibID/>

<ItemBarcode/>

<VolumeNumber/>

<Designation/>

<PickupOrgID/>

<IsBorrowByMail>

<PatronNotes/>

```

    <ActivationDate/>
    <Answer/>
    <RequestID/>
    <WorkstationID/>
    <UserID/>
    <RequestingOrgID/>
    <TargetGUID/>
</HoldRequestCreateData>

```

XML Body Elements

Name	Required	Description/Notes
PatronID	Yes	ID of Patron placing hold request
BibID	Yes	ID of bibliographic record hold is being placed on
ItemBarcode		Barcode of item-specific hold request
VolumeNumber		Volume of hold request
Designation		Serial designation of hold request
PickupOrgID	Yes	ID of branch where patron would like to pick up item 0 - Use the patron's registered library
IsBorrowByMail		If request is Borrow by Mail request. 0 - no; 1 - yes. [Added in 4.0]
PatronNotes		Notes created by patron
ActivationDate		Date this hold request will become active

Name	Required	Description/Notes
WorkstationID	Yes	ID of workstation where this hold request was created
UserID	Yes	ID of Polaris user that created this request
RequestingOrgID	Yes	ID of branch where this hold request was created
TargetGUID		GUID of search target. ONLY USED IF NOT LOCAL.

HTTP Verb

POST

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
RequestGUID	Internal hold request GUID
TxnGroupQualifier	Txn group qualifier of this hold message
TxnQualifier	Txn qualifier of this hold message
StatusType	Status type 1 - Error 2 - Answer 3 - Conditional
StatusValue	Status value 1 - Hold request placed

Name	Description/Notes
	3 - Conditional: Item available locally 4 - Conditional: Accept ILL policy 5 - Conditional: Accept even with existing holds 6 - Conditional: No items attached, still place hold 7 - Conditional: Accept local hold policy 2 - Error: Select pickup location 3 - Error: Login
Message	Display text
QueuePosition	If successfully placed, position in hold queue
QueueTotal	If successfully placed, total holds in queue

Sample Conditional Questions

Status Value	ILL Only	Question
3	Yes	Item is available locally. Would you like to place a local hold request?
4	Yes	Do you accept the ILL policy? [Defined in Polaris SA]
5		There are [12] active requests

Status Value	ILL Only	Question
		for this title. Do you still want to place the request?
6		No items are linked to this record. Your request may not be filled. Do you still want to place this request?
7		The library charges for hold requests. Do you still want to place the request?

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/holdrequest>

Header

User-Agent: Fiddler

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:c0m8aVzKYLIW0HfEREt9TbtXVqs=

Content-Type: text/xml

Content-Length: 354

Host: localhost

Body**<HoldRequestCreateData>**

```
<PatronID>299377</PatronID>
<BibID>15592</BibID>
<ItemBarcode/>
<VolumeNumber/>
<Designation/>
<PickupOrgID>74</PickupOrgID>
<PatronNotes/>
<ActivationDate>2009-11-17T09:28:00.00</ActivationDate>
<WorkstationID>1</WorkstationID>
<UserID>1</UserID>
<RequestingOrgID>74</RequestingOrgID>
<TargetGUID></TargetGUID>
```

</HoldRequestCreateData>**Return - Success****HTTP/1.1 200 OK****Content-Type: application/xml; charset=utf-8**

```
<HoldRequestResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><RequestGUID>7F279D6E-
CFDE-4AE3-BE96-EE12305CDF11</RequestGUID><TxnGroupQualifer>BQeK9WLrNew_
0BRKISzr2G</TxnGroupQualifer><TxnQualifier>496QYG6MMKss1C6nagTGkG</TxnQualifier
><StatusType>3</StatusType><StatusValue>5</StatusValue><Message>There are [1] active
requests for this title. Do you still want to place the
request?</Message><QueuePosition>0</QueuePosition><QueueTotal>0</QueueTotal></Hol
dRequestResult>
```

Return - Failed**HTTP/1.1 401 Unauthorized****WWW-Authenticate: PWS realm="Polaris API"****HTTP/1.1 200 OK****Content-Type: application/xml; charset=utf-8**

```
<HoldRequestResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-
```

```
4006</PAPIErrorCode><ErrorMessage/><RequestGUID/><TxnGroupQualifer/><TxnQualifier/  
><StatusType>0</StatusType><StatusValue>0</StatusValue><Message/><QueuePosition>0  
</QueuePosition><QueueTotal>0</QueueTotal></HoldRequestResult>
```

HoldRequestGetList

This protected method will return a list of hold requests that match the criteria specified by the user. The data returned includes the detailed request, patron, item, and title information. This method optionally allows a user to set an expiration date and time for the items on the list, which prevents duplicates of items already returned on previous calls to this method.

Important:

A call to `AuthenticateStaffUser` is required before calling any protected method.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/-
circulation/requests/list?branch={branch_id}&branchtype={branch_type_id}&re-
queststatus={status_id}`

Parameters

Name	Required	Description/Notes
branch	Yes	The branch ID for the request list
branchtype	Yes	The type of branch specified. Valid values include: 1=patron's branch 2=pickup branch 3=item (fulfilling) branch
requeststatus	Yes	The desired status of requests returned
expirationdate	No	The date and time to expire the list
useexpirationdate	No	Indicates if an expiration date filter of the list is desired for the call

Request Body XML

N/A

XML Body Elements

N/A

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code: Negative values represent errors and are defined elsewhere. Note: On successful completion, the PAPI error code is populated with a positive integer representing the number of rows returned.
ErrorMessage	Error or information message
RecordCount	The total number of records found that met the search criteria
PickListCreateTime	The date and time the list was created
PickListExpirationTime	The expiration time of the list specified by the user
RequestsPicklistRows	A list of request data
RequestsPicklistGetRow	Container for the data row
SysHoldRequestID	The Polaris unique request ID
SysHoldStatusID	The request status ID
HoldStatus	The request status description
PickupBranchID	The pickup branch ID of the request
PickupBranch	A description of the pickup branch
ActivationDate	The date the request became active

Name	Description/Notes
ExpirationDate	The expiration date and time of the request
StatusDate	The date and time the request last changed
BibliographicRecordID	The bibliographic record ID to which the request is attached
BrowseAuthor	The primary author of the work (if any)
BrowseTitle	The title of the work
PrimaryMARCTOMID	The Polaris primary MARC type of material ID
MARCTypeofMaterial	The Polaris MARC type of material description
ItemLevelHold	Boolean value indicating if the request was placed for a specific item.
BorrowByMail	Boolean value indicating if the request was borrow by mail.
PatronID	The unique ID of the patron who placed the request.
PatronBarcode	The patron's barcode.
PatronBranchID	The patron's branch ID.
PatronBranch	The patron's branch description.
PatronFullName	The full name of the patron who placed the request.
PatronCodeID	The patron's Patron Code ID.
PatronCode	The patron's Patron Code description.
Email address	The patron's email address (if any)
AltEmailAddress	The patron's alternate email address (if any)
PhoneVoice1	The patron's primary phone number (if any)
SMSAddress	The patron's SMS text message (if any)
ItemRecordID	The Polaris item record ID to which the request is bound (if any)
ItemBarcode	The barcode of the item to which the request is bound (if any)
ItemBranchID	The assigned branch ID for the item to which the request is bound (if any)
ItemBranch	The assigned branch description for the item to which the request is bound (if any)
CallNumber	The item's call number (if any)
CopyNumber	The item's copy number (if any)
VolumeNumber	The item's volume number (if any)
Pages	The number of pages for the request (if any)
AssignedCollectionID	The item's assigned collection ID (if any)
CollectionName	The item's assigned collection description (if any)
MaterialTypeID	The item's material type ID (if any)
MaterialType	The item's material type description (if any)
ShelfLocationID	The item's shelf location ID (if any)
ShelfLocation	The item's shelf location description (if any)

Name	Description/Notes
PublicationYear	The year the work was published
Publisher	The publisher of the work
Designation	The item's serial designation (if any)
Edition	The edition of the work (if any)
StaffDisplayNotes	The request's staff note (if any)
NonPublicNotes	The request's non-public note (if any)
PACDisplayNotes	The request' public note (if any)
SortTitle	The NACO normalized title of the work (if any). Appropriate for sorting the list.
SortAuthor	The NACO normalized author of the work (if any). Appropriate for sorting the list.

Example

<https://egraham-r2vm.gisinfo.com/Plato-R2PAPIService/REST/protected/v1/1033/100/1/DEsGANrOPNYpnKyaYKJ6fQtg0fKslonE/circulation/requests/list?branch=17&branchtype=2&requeststatus=4>

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

N/A

Return

```
<RequestsPicklistGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <RecordCount>1</RecordCount>
  <PickListCreateTime>2013-08-14T12:53:05.0172244-04:00</PickListCreateTime>
  <PickListExpirationTime>0001-01-01T00:00:00</PickListExpirationTime>
```

<RequestsPicklistRows>

<RequestsPicklistGetRow>

<SysHoldRequestID>811071</SysHoldRequestID>

<SysHoldStatusID>4</SysHoldStatusID>

<HoldStatus>Pending</HoldStatus>

<PickupBranchID>17</PickupBranchID>

<PickupBranch>Cambridge Public Library</PickupBranch>

<ActivationDate>2013-07-08T00:00:00</ActivationDate>

<ExpirationDate>2013-10-06T23:59:59</ExpirationDate>

<StatusDate>2013-07-08T17:18:07.22</StatusDate>

<BibliographicRecordID>23792</BibliographicRecordID>

<BrowseAuthor>Bix, Cynthia Overbeck.</BrowseAuthor>

<BrowseTitle>Cats</BrowseTitle>

<PrimaryMARCTOMID>1</PrimaryMARCTOMID>

<MarcTypeOfMaterial>Book</MarcTypeOfMaterial>

<ItemLevelHold>>false</ItemLevelHold>

<BorrowByMail>>false</BorrowByMail>

<PatronID>52324</PatronID>

<PatronBarcode>1000500534226</PatronBarcode>

<PatronBranchID>29</PatronBranchID>

<PatronBranch>Crandall Public Library (Glens Falls)</PatronBranch>

<PatronFullName>Batson, Billy</PatronFullName>

<PatronCodeID>1</PatronCodeID>

<PatronCode>Regular</PatronCode>

<EmailAddress/>

<AltEmailAddress/>

<PhoneVoice1>315-634-1234</PhoneVoice1>

<SMSAddress>3156341234@txt.att.net</SMSAddress>

<ItemRecordID>102167</ItemRecordID>

<ItemBarcode>0000201430097</ItemBarcode>

```
<ItemBranchID>90</ItemBranchID>
<ItemBranch>Saratoga Springs Public Library</ItemBranch>
<CallNumber>J 636.8 Ove</CallNumber>
<CopyNumber/>
<VolumeNumber/>
<Pages/>
<AssignedCollectionID>32</AssignedCollectionID>
<CollectionName>Children's Nonfiction</CollectionName>
<MaterialTypeID>1</MaterialTypeID>
<MaterialType>Book</MaterialType>
<ShelfLocationID/>
<ShelfLocation/>
<PublicationYear>1983</PublicationYear>
<Publisher>Lerner Publications Co.,</Publisher>
<Designation/>
<Edition/>
<StaffDisplayNotes/>
<NonPublicNotes/>
<PACDisplayNotes/>
<SortTitle>CATS</SortTitle>
<SortAuthor>BIX CYNTHIA OVERBECK</SortAuthor>
</RequestsPicklistGetRow>
</RequestsPicklistRows>
</RequestsPicklistGetResult>
```

HoldRequestReply

Send a reply message responding to the results of a previous HoldRequestCreate or HoldRequestReply procedure call. The HoldRequestCreate procedure must be called before executing this procedure. The RequestGUID, TxnGroupQualifier and TxnQualifier returned by the HoldRequestCreate procedure will be used as input parameters for this procedure call. These three values connect the messages together to create an ILL conversation. After calling the HoldRequestReply procedure, one or more calls to the HoldRequestReply procedure may be required. The message exchange is complete when a StatusType of Error (1) or Answer (2) is returned or if an error is raised via a database exception.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/holdrequest/{request_guid}

URI Parameters

Name	Required	Description/Notes
request_guid	Yes	GUID of original request message

Request Body XML

Important:

XML elements must be in the order shown below.

<HoldRequestReplyData>

<TxnGroupQualifier/>

<TxnQualifier/>

<RequestingOrgID/>

<Answer/>

<State/>

</HoldRequestReplyData>

XML Body Elements

Name	Required	Description/Notes
TxnGroupQualifier	Yes	Txn group qualifier
TxnQualifier	Yes	Txn qualifier
RequestingOrgID	Yes	Org ID of branch processing this request
Answer	Yes	Answer 1 - Yes 0 - No or Cancel
State	Yes	Which conditional will this answer be applied to? 1 - Item available locally 2 - Accept ILL policy 3 - Accept even with existing holds 4 - No items attached, still place hold 5 - Accept local hold policy (charge)

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
StatusType	Status type 1 - Error 2 - Answer 3 - Conditional
StatusValue	Status value 0 - Hold request not placed 1 - Hold request placed 3 - Conditional: Item available locally 4 - Conditional: Accept ILL policy 5 - Conditional: Accept even with existing holds 6 - Conditional: No items attached, still place hold 7 - Conditional: Accept local hold policy 2 - Error: Select pickup location 3 - Error: Login
Message	Display text
QueuePosition	If successfully placed, position in hold queue
QueueTotal	If successfully placed, total holds in queue

Sample Conditional Questions

Status Value	ILL Only	Question
3	Yes	Item is available locally. Would you like to place a local hold request?
4	Yes	Do you accept the ILL policy? [Defined in Polaris SA]
5		There are [12] active requests for this title. Do you still want to place the request?

Status Value	ILL Only	Question
6		No items are linked to this record. Your request may not be filled. Do you still want to place this request?
7		The library charges for hold requests. Do you still want to place the request?

Example (issue reply to previous create)

http://localhost/PAPIService/REST/public/v1/1033/100/1/holdrequest/B9313957-78AD-4633-87CE-40B7391F7862

Header

User-Agent: Fiddler
Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:E1pHJqNUh1quCUWJ+dQ7LV8kCSI=
Content-Type: text/xml
Content-Length: 354
Host: localhost

Body

```

<HoldRequestReplyData>
  <TxnGroupQualifier>BQeK9WLrNew_0BRKISzr2G</TxnGroupQualifier>
  <TxnQualifier>496QYG6MMKss1C6nagTGkG</TxnQualifier>
  <RequestingOrgID>74</RequestingOrgID>
  <Answer>1</Answer>
  <State>3</State>
</HoldRequestReplyData>
  
```

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```

<HoldRequestResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><RequestGUID/><TxnGro
  
```

```
upQualifer/><TxnQualifier/><StatusType>2</StatusType><StatusValue>1</StatusValue><Message>Your request has been placed.</Message><QueuePosition>2</QueuePosition><QueueTotal>2</QueueTotal></HoldRequestResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<HoldRequestResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-4006</PAPIErrorCode><ErrorMessage/><RequestGUID/><TxnGroupQualifer/><TxnQualifier/><StatusType>0</StatusType><StatusValue>0</StatusValue><Message/><QueuePosition>0</QueuePosition><QueueTotal>0</QueueTotal></HoldRequestResult>
```

HoldRequestSuspend

Suspend or reactivate a single hold request.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/{request_ID}/inactive`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/{request_ID}/active`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.
request_ID	Yes	ID of hold request.

Request Body XML

Important:

XML elements must be in the order shown below.

<HoldRequestActivationData>

`<UserID/>`

`<ActivationDate/>`

</HoldRequestActivationData>

XML Body Elements

Name	Required	Description/Notes
UserID	Yes	ID of user calling this procedure
ActivationDate	Yes	Date this hold request will become active

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
NewActivationDate	Date the system set the hold request to become active
NewExpirationDate	Date the system set the hold request to expire
ErrorMessage	Error message

Example

http://-
loc-
alhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/holdrequests/803449/inactive

Header

User-Agent: Fiddler
Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:cVPA7d7A15jwM9IxL6uobowP0lg=
Host: localhost
Content-Type: text/xml
Content-Length: 133

Body

<HoldRequestActivationData>

<UserID>1</UserID>

<ActivationDate>2009-12-31T00:00:00.00</ActivationDate>

</HoldRequestActivationData>

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<HoldRequestActivationResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><HoldRequestActivationRows><HoldRequestActivationRow><SysHoldRequestID>0</SysHoldRequestID><ReturnCode>0</ReturnCode><NewActivationDate>2009-12-31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow></HoldRequestActivationRows></HoldRequestActivationResult>

Request - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<HoldRequestActivationResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-4405</PAPIErrorCode><ErrorMessage/><HoldRequestActivationRows><HoldRequestActivationRow><SysHoldRequestID>0</SysHoldRequestID><ReturnCode>0</ReturnCode><NewActivationDate>0001-01-01T00:00:00</NewActivationDate><NewExpirationDate>0001-01-01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow></HoldRequestActivationRows></HoldRequestActivationResult>

HoldRequestSuspendAllForPatron

Suspend or reactivate all local hold requests for a specific patron whose hold requests have a status of inactive (1), active (2) or pending (4). Uses the same URI as HoldRequestSuspend. Simply passing in a **0** for the RequestID will force a “suspend all” operation.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/0/inactive`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/0/active`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

Request Body XML

Important:

XML elements must be in the order shown below.

<HoldRequestActivationData>

<UserID/>

<ActivationDate/>

</HoldRequestActivationData>

XML Body Elements

Name	Required	Description/Notes
UserID	Yes	ID of user calling this procedure
ActivationDate	Yes	Date this hold request will become active

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
SysHoldRequestID	ID of suspended/reactivated hold request
ReturnCode	Return code 0 - Success -1 - Failure -4403 - Invalid pickup branch assigned to hold request -4404 - Error occurred loading SA days to expire
NewActivationDate	Date the system set the hold request to become active
NewExpirationDate	Date the system set the hold request to expire
ErrorMessage	Error message

Example

**http://-
loc-
alhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/holdrequests/0/inactive**

Header

User-Agent: Fiddler

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:50b8un7d+g07KdfwiKMRc0AKFws=

Host: localhost

Body

<HoldRequestActivationData>

 <UserID>1</UserID>

 <ActivationDate>2009-12-01T00:00:00.00</ActivationDate>

</HoldRequestActivationData>

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<HoldRequestActivationResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><HoldRequestActivationR
ows><HoldRequestActivationRow><SysHoldRequestID>803449</SysHoldRequestID><Retu
rnCode>0</ReturnCode><NewActivationDate>2009-12-
31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-
01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow><HoldReq
uestActivationRow><SysHoldRequestID>803531</SysHoldRequestID><ReturnCode>0</Ret
urnCode><NewActivationDate>2009-12-
31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-
01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow></HoldRe
questActivationRows></HoldRequestActivationResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<HoldRequestActivationResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Failed to convert para-
meter value from a DateTime to a Int32.</Er-
rorMessage><HoldRequestSuspendRows/></HoldRequestActivationResult>
```

ItemRenew

Attempt to renew an item that is already checked out.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{barcode}/itemsout/{item_id}`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron.
item_id	Yes	The item record to be renewed.

Request Body XML

Important:

XML elements must be in the order shown below.

<ItemsOutActionData>

`<Action>renew</Action>`

`<LogonBranchID/>`

`<LogonUserID/>`

`<LogonWorkstationID/>`

`<RenewData>`

<IgnoreOverrideErrors/>

`</RenewData>`

</ItemsOutActionData>

XML Body Elements

Name	Required	Description/Notes
Action	Yes	Action to perform on this item checkout record renew - renew item checkout
LogonBranchID	Yes	Current Branch (can default to System [1])
LogonUserID	Yes	Current User (can default to PolarisExec)
LogonWorkstationID	Yes	Current Workstation (can default to OPACDefault)
IgnoreOverrideErrors	Yes	Ignore any errors that can be ignored and if possible, continue processing

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

If renewals are successful, a "DueDateRows" node will be present. If the patron has any blocks, a "BlockRows" node will be present.

Name	Description/Notes
DueDate	The new due date after item renewal successful

Name	Description/Notes
ItemRecordID	Item Record ID
PAPIErrorType	A PAPI code to tell which 'process' caused the error 1 - Patron block 2 - Item renewal block
PolarisErrorCode	The current error code return via Polaris base processing
ErrorAllowOverride	Does the specific error allow user to override?
ErrorDesc	Block description text.

Example

http://-
localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/itemsout/372798

Header

User-Agent: Fiddler
Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:watd7HEUpUTXLF+etn6XvolT9gc=
Host: localhost

Body

```
<ItemsOutActionData>
  <Action>renew</Action>
  <LogonBranchID>74</LogonBranchID>
  <LogonUserID>1</LogonUserID>
  <LogonWorkstationID>1</LogonWorkstationID>
  <RenewData>
    <IgnoreOverrideErrors>true</IgnoreOverrideErrors>
  </RenewData>
</ItemsOutActionData>
```

Return - Success**HTTP/1.1 200 OK****Content-Type: application/xml; charset=utf-8**

```
<ItemsOutActionResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr-
rorCode>0</PAPIEr-
rorCode><ErrorMessage/><ItemRenewResult><BlockRows><ItemRenewBlockRow>
<PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>9999</PolarisErrorCode>
<ErrorAllowOverride>true</ErrorAllowOverride>
<ErrorDesc>This item is overdue. Your account will be charged $4.10</ErrorDesc>
<ItemRecordID>527727</ItemRecordID>
</ItemRenew
<BlockRow></BlockRows>
<DueDateRows>
<ItemRenewDueDateRow><ItemRecordID>527727</ItemRecordID>
<DueDate>2009-12-17T23:59:59</DueDate>
</ItemRenewDueDateRow></DueDateRows></ItemRenewResult></ItemsOutActionResult>
```

Return - Failed**HTTP/1.1 401 Unauthorized****WWW-Authenticate: PWS realm="Polaris API"****HTTP/1.1 200 OK****Content-Type: application/xml; charset=utf-8**

```
<ItemsOutActionResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr-
rorCode>-2</PAPIErrorCode><ErrorMessage/>
<ItemRenewResult><BlockRows>
<ItemRenewBlockRow><PAPIErrorType>2</PAPIErrorType>
<PolarisErrorCode>16384</PolarisErrorCode>
<ErrorAllowOverride>false</ErrorAllowOverride>
<ErrorDesc>Item has exceeded renewal limit, not allowed to renew</ErrorDesc>
<ItemRecordID>372798</ItemRecordID>
</ItemRenewBlockRow><ItemRenewBlockRow>
<PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>9999</PolarisErrorCode>
<ErrorAllowOverride>true</ErrorAllowOverride>
<ErrorDesc>This item is overdue. Your account will be charged $4.20</ErrorDesc>
<ItemRecordID>372798</ItemRecordID>
</ItemRenewBlockRow></BlockRows>
<DueDateRows/></ItemRenewResult></ItemsOutActionResult>
```

ItemRenewAllForPatron

Attempt to renew all items currently out to a patron. Uses the same URI as ItemRenew. Simply passing in a **0** for the ItemID will force a “renew all” operation.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{barcode}/itemsout/0`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron.

Request Body XML

Important:

XML elements must be in the order shown below.

<ItemsOutActionData>

`<Action>renew</Action>`

`<LogonBranchID/>`

`<LogonUserID/>`

`<LogonWorkstationID/>`

`<RenewData>`

<IgnoreOverrideErrors/>

`</RenewData>`

</ItemsOutActionData>

XML Body Elements

Name	Required	Description/Notes
Action	Yes	Action to perform on this item checkout record renew - renew item checkout
LogonBranchID	Yes	Current Branch (can default to System [1])
LogonUserID	Yes	Current User (can default to PolarisExec)
LogonWorkstationID	Yes	Current Workstation (can default to OPACDefault)
IgnoreOverrideErrors	Yes	Ignore any errors that can be ignored and if possible, continue processing

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

If renewals are successful, a "DueDateRows" node will be present. If the patron has any blocks, a "BlockRows" node will be present.

Name	Description/Notes
DueDate	The new due date after item renewal successful

Name	Description/Notes
ItemRecordID	Item Record ID
PAPIErrorType	A PAPI code to tell which 'process' caused the error 1 - Patron block 2 - Item renewal block
PolarisErrorCode	The current error code return via Polaris base processing
ErrorAllowOverride	Does the specific error allow user to override?
ErrorDesc	Block description text.

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/itemsout/0>

Header

User-Agent: Fiddler

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:YZreNo/cw2Ltt7DFinAM0XK7ScE=

Host: localhost

Body

<ItemsOutActionData>

<Action>renew</Action>

<LogonBranchID>74</LogonBranchID>

<LogonUserID>1</LogonUserID>

<LogonWorkstationID>1</LogonWorkstationID>

<RenewData>

<IgnoreOverrideErrors>true</IgnoreOverrideErrors>

</RenewData>

</ItemsOutActionData>

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```

<ItemsOutActionResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>-3</PAPIErrorCode>
  <ErrorMessage/>
  <ItemRenewResult><BlockRows>
    <ItemRenewBlockRow>
      <PAPIErrorType>2</PAPIErrorType>
      <PolarisErrorCode>16384</PolarisErrorCode>
      <ErrorAllowOverride>>false</ErrorAllowOverride>
      <ErrorDesc>Item has exceeded renewal limit, not allowed to renew</ErrorDesc>
      <ItemRecordID>527727</ItemRecordID>
    </ItemRenewBlockRow><ItemRenewBlockRow>
      <PAPIErrorType>2</PAPIErrorType>
      <PolarisErrorCode>8192</PolarisErrorCode>
      <ErrorAllowOverride>>false</ErrorAllowOverride>
      <ErrorDesc>Item is long overdue, not allowed to renew</ErrorDesc>
      <ItemRecordID>1223636</ItemRecordID>
    </ItemRenewBlockRow>
    <ItemRenewBlockRow><PAPIErrorType>2</PAPIErrorType>
      <PolarisErrorCode>4096</PolarisErrorCode>
      <ErrorAllowOverride>>false</ErrorAllowOverride>
      <ErrorDesc>Item is overdue, not allowed to renew</ErrorDesc>
      <ItemRecordID>2904429</ItemRecordID>
    </ItemRenewBlockRow></BlockRows>
    <DueDateRows><ItemRenewDueDateRow>
      <ItemRecordID>34508</ItemRecordID>
      <DueDate>2009-12-17T23:59:59</DueDate>
    </ItemRenewDueDateRow><ItemRenewDueDateRow>
      <ItemRecordID>372798</ItemRecordID>
      <DueDate>2009-12-17T23:59:59</DueDate>
    </ItemRenewDueDateRow></DueDateRows></ItemRenewResult></ItemsOutActionResult>

```

Return - Failed

HTTP/1.1 401 Unauthorized
 WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
 Content-Type: application/xml; charset=utf-8

```

<ItemsOutActionResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr-
rorCode>-2</PAPIErrorCode><ErrorMessage/>
  <ItemRenewResult>
    <BlockRows><ItemRenewBlockRow>
      <PAPIErrorType>2</PAPIErrorType>
      <PolarisErrorCode>16384</PolarisErrorCode>
      <ErrorAllowOverride>>false</ErrorAllowOverride>
      <ErrorDesc>Item has exceeded renewal limit, not allowed to renew</ErrorDesc>
      <ItemRecordID>372798</ItemRecordID>
    </ItemRenewBlockRow><ItemRenewBlockRow>
      <PAPIErrorType>2</PAPIErrorType>
      <PolarisErrorCode>9999</PolarisErrorCode>
      <ErrorAllowOverride>>true</ErrorAllowOverride>

```

```
<ErrorDesc>This item is overdue. Your account will be charged $4.20</ErrorDesc>  
<ItemRecordID>372798</ItemRecordID>  
</ItemRenewBlockRow></BlockRows><DueDateRows/>  
</ItemRenewResult></ItemsOutActionResult>
```

ItemUpdateBarcode

This protected method allows a user to update the barcode for an existing item record when a barcode is changed or replaced. It writes a 3009 transaction (item record updated), creates an item record history action, and updates the item's barcode.

Important:

A call to `AuthenticateStaffUser` is required before calling any protected method.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/cataloging/items/{item-recordid}/barcode`

URI Parameters

Name	Required	Description/Notes
itemrecordid	Yes	The item record ID for the item with the barcode being updated.

Request Body XML**Important:**

XML elements must be in the order shown below.

`<ModylItemData>`

`<TransactionBranchID />`

`<ItemBarcode/>`

`</ModylItemData>`

XML Body Elements

Name	Required	Description/Notes
TransactionBranchID	Yes	The branch that is updating the item record.
ItemBarcode	Yes	The new barcode of the item.

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code: Negative values represent errors and are defined elsewhere. Note: On successful completion, the PAPI error code is populated with a positive integer representing the number of rows returned.
ErrorMessage	Error or information message

Example

`https://egraham-r2vm.gisinfosystems.com/Plato-R2PAPISer-vice/REST/-protected/v1/1033/100/1/GgZtGNGWUrsNINKmMv7h161jXQlpRJNS/cataloging/items/2384901/barcode`

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

<ModylItemData>

<TransactionBranchID>74</TransactionBranchID>

<ItemBarcode>EC G2384901</ItemBarcode>

</ModylItemData>

Return

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<PAPIResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<PAPIErrorCode>0</PAPIErrorCode>

<ErrorMessage/>

</PAPIResult>

LimitFiltersGet

Returns list of valid bib search limit filters based on the organization's Polaris System Administration values.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/limitfilters`

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

XML Elements Returned

Name	Description/Notes
Description	Limit filter description to display to user
CCLFilter	CCL filter command
DisplayOrder	Order in which to display this limit filter

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/74/limitfilters`

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:hy88Pneyn0TbXd0d1aMFChPnzmA=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<LimitFiltersGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>3</PAPIErrorCode>
  <ErrorMessage/>
  <LimitFiltersRows><LimitFiltersRow>
    <Description>All Items - This library only</Description>
    <CCLFilter>AB=74</CCLFilter>
    <DisplayOrder>1</DisplayOrder>
  </LimitFiltersRow><LimitFiltersRow>
    <Description>All Items - All Libraries</Description>
    <CCLFilter>TOM=*</CCLFilter>
    <DisplayOrder>2</DisplayOrder>
  </LimitFiltersRow><LimitFiltersRow>
    <Description>Audiobook - This library only</Description>
    <CCLFilter>TOM=nsr and AB=74</CCLFilter>
    <DisplayOrder>6</DisplayOrder>
  </LimitFiltersRow></LimitFiltersRows>
</LimitFiltersGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<LimitFiltersGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid type spe-
  cified</ErrorMessage><LimitFiltersRows i:nil="true"/></LimitFiltersGetResult>
```

NotificationUpdate

The NotificationUpdate method will update the Notification Log and remove or update the Notification Queue entry. It is also responsible for updating related ItemCheckout data elements and rolling phone notification into print notification. This method should be called after a patron is contacted.

This method supports telephone notification processing as well as email and text messaging for specific types of notices, and may be used in conjunction with the phone notification export process. Telephone notification rolls to print for 5 failure statuses: 7- No dial tone; 8 - Intercept tones heard; 9 - Probable bad phone number; 10 - Maximum number of retries exceeded; 11 - Undetermined error.

A call to AuthenticateStaffUser is required before calling any protected methods. See AuthenticateStaffUser. For more information about protected methods, see "PAPI Protected Methods" on page 14.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/notification/{notification_type_ID}`

HTTP Verb

PUT

Notification Type ID

ID	Notification Type
0	Combined
1	1st Overdue
2	Hold
3	Cancel
4	Recall
5	All
6	Route
7	Almost overdue reminder
8	Fine
9	Inactive Reminder
10	Expiration Reminder

ID	Notification Type
11	Bill
12	2nd Overdue
13	3rd Overdue
14	Serial Claim
15	Polaris Fusion Access Request
16	Course Reserves
17	Borrow-By-Mail Failure Notice
18	2nd Hold
19	Missing Part
20	Manual Bill

Request Body XML

```

<NotificationUpdateData>
  <LogonBranchID />
  <LogonUserID />
  <LogonWorkstationID />
  <ReportingOrgID />
  <NotificationStatusID />
  <NotificationDeliveryDate />
  <DeliveryOptionID />
  <DeliveryString />
  <Details />
  <PatronID />
  <PatronLanguageID />
  <ItemRecordID />
</NotificationUpdateData>

```

XML Body Elements

Name	Required	Description/Notes
LogonBranchID	Yes	Logon branch ID
LogonUserID	Yes	Logon staff user ID
LogonWorkstationID	Yes	Logon workstation ID

Name	Required	Description/Notes
ReportingOrgID	See notes	Required for email notification. Not required for telephony notification. System ID is automatically used for telephony due to its centralized processing.
NotificationStatusID	Yes	Notification Status ID 1 - Call completed – Voice 2 - Call completed - Answering machine 3 - Call not completed - Hang up 4 - Call not completed - Busy 5 - Call not completed - No answer 6 - Call not completed - No ring 7 - Call failed - No dial tone (rolls to print) 8 - Call failed - Intercept tones heard (rolls to print) 9 - Call failed - Probable bad phone number (rolls to print) 10 - Call failed - Maximum number of retries exceeded (rolls to print) 11 - Call failed - Undetermined error

Name	Required	Description/Notes
		(rolls to print) 12 - Email Completed 13 - Email Failed - Invalid address (rolls to print) 14 - Email Failed (rolls to print) 15 - Mail Printed
NotificationDeliveryDate	Yes	Notification Delivery Date

Name	Required	Description/Notes
DeliveryOptionID	Yes	Delivery Option ID 1 - Mailing Address 2 - Email Address 3 - Telephone 1 4 - Telephone 2 5 - Telephone 3 6 - FAX 7 - EDI 8 - TXT Messaging * Only 2,3,4,5,8 currently supported *
DeliveryString	Yes	Phone number or email
Details	No	Status message from notification device. Manual bills require ItemBarcode in the Details tag. Cancellation notices require RequestID in the Details tag
PatronID	Yes	ID of patron being notified
PatronLanguageID	See notes	Language ID used to contact patron. If not supplied, the default will be the patron's preferred language. 1033 – English 1042 – Korean 1049 – Russian 1066 – Vietnamese 1141 – Hawaiian

Name	Required	Description/Notes
		2052 – Chinese 3082 – Spanish 3084 – French 12289 – Arabic
ItemRecordID	See notes	ID of item record attached to notification. Required for overdue, hold and cancel phone notifications. ItemRecordID or ItemBarcode required for hold notices, almost overdue reminders, missing part notices, and bills.

Authorization Required?

Yes

Protected method?

Yes

Return Codes

ID	Notification Type
0	Success
-1	Failure general
-5	Failure database
-6	Failure invalid parameter

ID	Notification Type
-2000	Item ID is invalid
-3000	Patron ID is invalid

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error Code
ErrorMessage	Error or information message

Example

http://[host-name]/PAPIServer/REST/protected/v1/1033/100/1/HfOzmNFbhglFMOQvFpZpjzCdM2Bq1Qcs/notification/1

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxD9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Body

```
<NotificationUpdateData>
  <LogonBranchID>1</LogonBranchID>
  <LogonUserID>1</LogonUserID>
  <LogonWorkstationID>1</LogonWorkstationID>
  <NotificationStatusID>1</NotificationStatusID>
  <NotificationDeliveryDate>2011-08-04</NotificationDeliveryDate>
  <DeliveryOptionID>3</DeliveryOptionID>
  <DeliveryString>3155551212</DeliveryString>
  <Details>Call completed - Voice</Details>
  <PatronID>299377</PatronID>
  <ItemRecordID>2035574</ItemRecordID>
</NotificationUpdateData>
```

Return

```
<NotificationUpdateResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>-1</PAPIErrorCode>  
  <ErrorMessage>NotificationQueue entry does not exist for this delivery option.</Er-  
rorMessage>  
</NotificationUpdateResult>
```

OrganizationsGet

Returns list of system, library and branch level organizations. The list can be filtered by system, library or branch.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/organizations/all`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/organizations/system`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/organizations/library`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/organizations/branch`

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

XML Elements Returned

Name	Description/Notes
OrganizationID	ID of organization
OrganizationCodeID	Organization code ID 1 - System 2- Library 3 -Branch
Name	Internal name
Abbreviation	Abbreviation
DisplayName	Name used to display to end user
ParentOrganizationID	The parent organization ID

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/organizations/branch

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:9kmLXtx5jvA+XIVqLeHv/2LFRvo=

Return - SuccessHTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<OrganizationsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>2</PAPIErrorCode>
  <ErrorMessage />
  <OrganizationsGetRows>
    <OrganizationsGetRow>
      <OrganizationID>3</OrganizationID>
      <OrganizationCodeID>3</OrganizationCodeID>
      <Name>Branch A</Name>
      <Abbreviation>A</Abbreviation>
      <DisplayName>Library A</DisplayName>
      <ParentOrganizationID>2</ParentOrganizationID>
    </OrganizationsGetRow>
    <OrganizationsGetRow>
      <OrganizationID>4</OrganizationID>
      <OrganizationCodeID>3</OrganizationCodeID>
      <Name>Branch B</Name>
      <Abbreviation>B</Abbreviation>
      <DisplayName>Branch B</DisplayName>
      <ParentOrganizationID>2</ParentOrganizationID>
    </OrganizationsGetRow>
  </OrganizationsGetRows>
</OrganizationsGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<OrganizationsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError  
rroCode>-1</PAPIErrorCode><ErrorMessage>Invalid type spe-  
cified</ErrorMessage><OrganizationGetRows i:nil="true"/></ OrganizationsGetResult>
```

PatronAccountGet

Returns list of fines and fees associated with a specified patron. The list can be filtered by outstanding (current) or reconciled (historical) fines and fees.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{barcode}/account/outstanding`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{barcode}/account/reconciled`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron.

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more fines and fees associated with the patron. The list is sorted in ascending order by transaction date.

Name	Description/Notes
TransactionID	Polaris ID of the transaction
TransactionDate	Date and time the transaction was logged

Name	Description/Notes
BranchID	Polaris ID of the branch associated with the fine
BranchName	Name of the branch associated with the fine
TransactionTypeID	Polaris ID of the type of transaction 1 - Charge 2 - Payment for a Charge 3 - Return from Deposit 4 - Deposit 5 - Waive 6 - Waive Existing Charge 7 - Foreit from Deposit 8 - Credit from Deposit/Pay 9 - Refund from Payment 10 - Auto-waive
TransactionTypeDescription	Description of the type of transaction
FeeDescription	Detailed description of the fee
TransactionAmount	Amount of transaction in dollar and cents
OutstandingAmount	Outstanding amount
FreeTextNote	Free text note associated with the transaction
ItemID	Polaris ID of the associated item record
Barcode	The item barcode
BibID	The ID of the associated bibliographic record
FormatID	Polaris ID of the type of format (see Material Format Types)
FormatDescription	Format description
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item
CheckOutDate	Date the item associated with the fine was checked out
DueDate	The original due date of the item associated with the fine

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/account/outstanding`

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:VquvxkQOvaaJ5k1UdY7gAThe5gc=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronAccountGetRows><PatronAccountGetRow>
    <TransactionID>3605602</TransactionID>
    <TransactionDate>2009-09-09T17:18:31</TransactionDate>
    <BranchID>3</BranchID>
    <BranchName>Amsterdam Free Library</BranchName>
    <TransactionTypeID>1</TransactionTypeID>
    <TransactionTypeDescription>Charge</TransactionTypeDescription>
    <FeeDescription/>
    <TransactionAmount>2.0000</TransactionAmount>
    <OutstandingAmount>2.0000</OutstandingAmount>
    <FreeTextNote/>
    <ItemID>0</ItemID>
    <Barcode/>
    <BibID>0</BibID>
    <FormatID>0</FormatID>
    <FormatDescription/>
    <Title/><Author/><CallNumber/>
    <CheckOutDate>0001-01-01T00:00:00</CheckOutDate>
    <DueDate>0001-01-01T00:00:00</DueDate>
  </PatronAccountGetRow><PatronAccountGetRow>
    <TransactionID>3609050</TransactionID>
    <TransactionDate>2009-10-07T12:12:24</TransactionDate>
    <BranchID>3</BranchID>
    <BranchName>Amsterdam Free Library</BranchName>
    <TransactionTypeID>1</TransactionTypeID>
    <TransactionTypeDescription>Charge</TransactionTypeDescription>
    <FeeDescription>Overdue Item</FeeDescription>
    <TransactionAmount>16.5000</TransactionAmount>
    <OutstandingAmount>16.5000</OutstandingAmount>
    <FreeTextNote/>
    <ItemID>0</ItemID>
    <Barcode/>
    <BibID>0</BibID>
```

```
<FormatID>0</FormatID>
<FormatDescription/>
<Title/>
<Author/>
<CallNumber/>
<CheckOutDate>0001-01-01T00:00:00</CheckOutDate>
<DueDate>0001-01-01T00:00:00</DueDate>
</PatronAccountGetRow></PatronAccountGetRows></PatronAccountGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronAccountGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError-
  rorCode>-1</PAPIErrorCode><ErrorMessage>Invalid type spe-
  cified</ErrorMessage><PatronAccountGetRows i:nil="true"/></PatronAccountGetResult>
```

PatronAccountPay

Makes a payment on an existing charge on the Polaris patron account

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access-token}/patron/{barcode}/account/{charge-txn-ID}/pay`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron
charge-txn-id	Yes	Polaris charge transaction ID

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

XML Body Elements

Important:

XML elements must be in the order shown below.

Name	Required	Description/Notes
TxnAmount	Yes	Valid dollar amount and not greater than balance owed
PaymentMethodID	Yes	Valid values are: 11 - Cash 12 - Credit card 13 - Debit card 14 - Check 15 - Voucher 17 - Smart card
FreeTextNote		Note to attach to payment

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

`https://[host-name]/PAPIService/REST/protected/v1/1033/100/1/kSUEQM6CuhkFalolaHPYdpHJ0U7Neczl/patron/21756003332022/account/680938/pay`

Header

User-Agent: Fiddler
Date: Wed, 28 Apr 2010 14:14:32 GMT
Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=
Host: localhost
Content-Type: text/xml
Content-Length: 0

Body

```
<PatronAccountPayData >  
  <TxnAmount >1.25</TxnAmount>  
  <PaymentMethodID >11</PaymentMethodID>  
  <FreeTextNote>Paid through Polaris API</FreeTextNote>  
</PatronAccountPayData>
```

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<PatronAccountPayResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/></PatronAccountPayResult>

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<PatronAccountPayResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid workstation ID.</ErrorMessage></PatronAccountPayResult>

PatronAccountPayAll

This method takes a payment amount, a note, and a payment method, and applies the payments to all patron charges, paying off the oldest charges first. It allows a partial pay all, but not an overpayment. If the amount is greater than the amount the patron currently owes in charges, a -3610 error is returned.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/patron/{patron_barcode}/account/lumpsumpayment`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

https://[host-name]/PAPISer-vice/REST/protected/v1/1033/100/1/kSUEQM6CuhkFalolaHPYdpHJ0U7Neczl/patron/21756003332022/account/lumpsumpayment

Header

User-Agent: Fiddler
Date: Wed, 28 Apr 2010 14:14:32 GMT
Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=
Host: localhost
Content-Type: text/xml
Content-Length: 0

Body

```
<PatronAccountPayData >
  <TxnAmount >1.25</TxnAmount>
  <PaymentMethodID >11</PaymentMethodID>
  <FreeTextNote>Paid through Polaris API</FreeTextNote>
</PatronAccountPayData>
```

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<PatronAccountPayResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr-rorCode>0</PAPIErrorCode><ErrorMessage/></PatronAccountPayResult>

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronAccountPayResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>-1</PAPIErrorCode>  
<ErrorMessage>Invalid workstation ID.</ErrorMessage></PatronAccountPayResult>
```

PatronAccountVoid

This delete method voids a patron payment on the Polaris patron account. It restores the paid balance to the associated charge and the associated credit (if it was paid originally with a patron's existing credit). The change has no impact on credit card processing; it simply voids the payment from the PatronAccount table, and a 6042 transaction is logged.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access-token}/patron/{barcode}/account/{void-payment-txn-ID}/void/payment`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron
void-payment-txn-id	Yes	Polaris void payment transaction ID

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

HTTP Verb

DELETE

Authorization required?

Yes

Protected method?

Yes

Example

**https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/ kSUEQM6CuhkFalolaHPYd-
pHJ0U7Neczl/patron/21756003332022/account/680938/void/payment**

Header

**User-Agent: Fiddler
Date: Wed, 28 Apr 2010 14:14:32 GMT
Authorization: PWS polarisdev:TKycQwgl+APCicovsRwass4DecU=
Host: localhost
Content-Type: text/xml
Content-Length: 0**

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

**PatronAccountVoidPaymentResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/></ Pat-
ronAccountVoidPaymentResult>**

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

**<PatronAccountVoidPaymentResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode>
<ErrorMessage>Invalid workstation ID.</ErrorMessage>
</PatronAccountVoidPaymentResult>**

PatronAccountCreateCredit

This method creates a credit on the Polaris patron account.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access-token}/patron/{patron-bar-code}/account/createcredit`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Patron barcode

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

**http://localhost/PAPIService/REST/public/v1/1033/100/1/
patron/21756003332022/account/createcredit**

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

**<PatronAccountCreateCreditData>
<TxnAmount >1.25</TxnAmount>
<PaymentMethodID >11</PaymentMethodID>
<FreeTextNote>Credited through Polaris API</FreeTextNote>
</PatronAccountCreateCreditData>**

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

**<PatronAccountCreateCreditResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronAccountCreateCreditResult>**

Return - Failed:

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
< PatronAccountCreateCreditResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid workstation ID.</Er-  
rorMessage></ PatronAccountCreateCreditResult>
```

```
https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/ kSUEQM6CuhkFalolaHPYd-  
pHJ0U7Neczl/patron/21756003332022/account/680938/void/payment
```

XML Body Elements

Name	Required	Description/Notes
TxnAmount	Yes	Valid dollar amount
PaymentMethodID	Yes	Valid values are:11 - Cash13 – Debit card14 - Check15 - Voucher17 – Smart card
FreeTextNote	No	Note to attach to payment

PatronAccountDepositCredit

This method deposits credits on the Polaris patron account, with the oldest credits processed first.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access-token}/patron/{patron-bar-code}/account/lumpsumdepositcredit`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Patron barcode

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

XML Body Elements

Name	Required	Description/Notes
TxnAmount	Yes	Valid dollar amount not greater than existing credit amount
FreeTextNote	No	Note to attach to payment

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/account/lumpsumDepositcreditt

Header**User-Agent: Fiddler****Date: Wed, 28 Apr 2010 14:14:32 GMT****Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=****Host: localhost****Content-Type: text/xml****Content-Length: 0****Body****<PatronAccountDepositCreditData>****<TxnAmount >1.25</TxnAmount>****<FreeTextNote>Credited through Polaris API</FreeTextNote>****</PatronAccountDepositCreditData>**

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountDepositCreditResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronAccountDepositCreditResult>
```

Return - Failed:

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
< PatronAccountDepositCreditResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode>
<ErrorMessage>Invalid workstation ID.</ErrorMessage>
</ PatronAccountDepositCreditResult>
```

PatronAccountRefundCredit

This method refunds credits on the Polaris patron account, with the oldest credits processed first.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access-token}/patron/{patron-bar-code}/account/lumpsumrefundcredit`

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Patron barcode

Query String Parameters

Name	Values	Required	Description/Notes
wsid	>0	Yes	ID of workstation calling this method
userid	>0	Yes	ID of user calling this method (not patron ID)

XML Body Elements

Name	Required	Description/Notes
TxnAmount	Yes	Valid dollar amount

Name	Required	Description/Notes
FreeTextNote	No	Note to attach to payment

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/account/lumpsumrefundcredit

Header**User-Agent:** Fiddler**Date:** Wed, 28 Apr 2010 14:14:32 GMT**Authorization:** PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=**Host:** localhost**Content-Type:** text/xml**Content-Length:** 0**Body****<PatronAccountRefundCreditData>****<TxnAmount >1.25</TxnAmount>****<FreeTextNote>Credited through Polaris API</FreeTextNote>****</PatronAccountRefundCreditData>**

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountRefundCreditResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronAccountRefundCreditResult>
```

Return - Failed:

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
< PatronAccountRefundCreditResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode>
<ErrorMessage>Invalid workstation ID.</ErrorMessage>
</ PatronAccountRefundCreditResult>
```

PatronAccountCreateTitleList

Creates a named title list in the patron account.

Note:

The following characters are not valid in a list name and should not be passed into PAPI: plus, backslash, quotation marks (single or double), and pipe.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patronaccountcreatetitlelist`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

```
<PatronAccountCreateTitleListData>  
  <RecordStoreName></RecordStoreName>  
</PatronAccountCreateTitleListData>
```

XML Body Elements

Name	Required	Description/Notes
RecordStoreName	Yes	Name of record store

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/
patronaccountcreatetitlelist`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<PatronAccountCreateTitleListData>  
<RecordStoreName>Favorites</RecordStoreName>  
</PatronAccountCreateTitleListData>
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountCreateTitleListResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance">  
<PAPIErrorCode>0</PAPIErrorCode>  
<ErrorMessage/>  
</PatronAccountCreateTitleListResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountCreateTitleListResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance">  
<PAPIErrorCode>0</PAPIErrorCode>  
<ErrorMessage>Please enter a name for the title list</ErrorMessage>  
</PatronAccountCreateTitleListResult>
```

PatronAccountGetTitleLists

Returns a list of all title lists in a patron's account.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patronaccountgettitlelists

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patronaccountgettitlelists

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountGetTitleListsResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronAccountTitleListsRows><PatronAccountTitleListsRow>
    <RecordStoreName>Books to read</RecordStoreName>
    <Sorted>>false</Sorted>
    <Count>5</Count>
    <RecordStoreID>779</RecordStoreID>
  </PatronAccountTitleListsRow>
  <PatronAccountTitleListsRow>
    <RecordStoreName>Favorites</RecordStoreName>
    <Sorted>>false</Sorted>
    <Count>3</Count>
    <RecordStoreID>780</RecordStoreID>
  </PatronAccountTitleListsRow>
</PatronAccountTitleListsRows>
</PatronAccountGetTitleListsResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

PatronAccountDeleteTitleList

Deletes the specified existing named title list on the patron account.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patronaccountdeletetitlelist?list={list_id}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron
list_id	Yes	Unique identifier for the list

HTTP Verb

DELETE

Authorization required?

Yes

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patronaccountdeletetitlelist?list=700`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountDeleteTitleListResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
</PatronAccountDeleteTitleListResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronAccountDeleteTitleListResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage>Record store '999' not
found.</ErrorMessage></PatronAccountDeleteTitleListResult>
```

PatronCodesGetResult

This method returns a list of valid patron codes. If the specified organization ID does not exist, an error is returned (Invalid OrgID supplied, -5000).

URI

/public/{version}/{lang-ID}/{product-ID}/{org-ID}/patroncodes

URI Parameters

Name	Required	Description/Notes
org_id	Yes	Organization ID

HTTP Verb

GET

Authorization required?

No

XML Elements Returned

Valid patron codes for the specified organization.

Name	Description/Notes
PatronCodeID	Patron code ID
Description	Patron code description

Example

<https://qa-sat-urn.polarislibrary.com/PAPIService/REST/public/public/v1/1033/100/3/patroncodes>

Header

Date: Fri, 21 Oct 2016 22:23:32 GMT

Authorization: PWS polarisdev:fB5eam199jSdF5lf3SLJ+czTHpM=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronCodesGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage></ErrorMessage>
  <PatronCodesRows>
    <PatronCodesRow>
      <PatronCodeID>1</PatronCodeID>
      <Description>Regular</Description>
    </PatronCodesRow>
    <PatronCodesRow>
      <PatronCodeID>2</PatronCodeID>
      <Description>Juvenile</Description>
    </PatronCodesRow>
    <PatronCodesRow>
      <PatronCodeID>3</PatronCodeID>
      <Description>Juvenile with Restrictions</Description>
    </PatronCodesRow>
    <PatronCodesRow>
      <PatronCodeID>4</PatronCodeID>
      <Description>Staff / Board</Description>
    </PatronCodesRow>
  </PatronCodesRows>
</PatronCodesGetResult>
```

Error Message

If the organization ID does not exist in the database, error code -5000 ("Invalid OrganizationID supplied") is returned.

PatronTitleListAddTitle

Adds the specified bibliographic record to the specified list in the patron account.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patrontitlelistaddtitle`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

```
<PatronTitleListAddTitleData>
  <RecordStoreID></RecordStoreID>
  <RecordName></RecordName>
  <LocalControlNumber></LocalControlNumber>
</PatronTitleListAddTitleData>
```

XML Body Elements

Name	Required	Description/Notes
RecordStoreID	Yes	Unique identifier for the record store
RecordName	No	Title of the item being added to the list. If present, element is ignored.
LocalControlNumber	Yes	Control number of the tile

XML Elements Returned

Name	Description/Notes
Position	Title position in the list
RecordID	Unique Identifier for the title in the list
LocalControlNumber	Control number of the tile

Example

http://-
loc-
alhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistadddtitle

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<PatronTitleListAddTitleData>
<RecordStoreID>123</RecordStoreID>
<RecordName>Polaris 101: Tips and tricks</RecordName>
<LocalControlNumber>101010</LocalControlNumber>
</PatronTitleListAddTitleData>
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListAddTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<PAPIErrorCode>0</PAPIErrorCode>
<ErrorMessage/>
<Position>1</Position>
<RecordID>19498</RecordID>
</PatronTitleListAddTitleResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListAddTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<PAPIErrorCode>0</PAPIErrorCode>
<ErrorMessage>Could not add record 'Polaris 101: Tips and tricks' because it does not exist.
</ErrorMessage>
<Position>0</Position>
<RecordID>0</RecordID>
</PatronTitleListAddTitleResult>
```

PatronTitleListCopyTitle

Copy a title from one list to another in a patron account.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patrontitlelistcopytitle

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

```
<PatronTitleListCopyTitleData>  
  <FromRecordStoreID></FromRecordStoreID>  
  <FromPosition></FromPosition>  
  <ToRecordStoreID></ToRecordStoreID>  
</PatronTitleListCopyTitleData>
```

XML Body Elements

Name	Required	Description/Notes
FromRecordStoreID	Yes	Record store to copy the records from
FromPosition	Yes	Position of the title in the list. Note: A negative RecordID (-990) can be submitted instead of the title's position. The RecordID is a Unique Identifier for a record in the title list from the underlying table IRRecords.RecordID. This is not the Control Number or the Bib Record ID. It can be obtained from the PAPI API call PatronTitleListGetTitles.
ToRecordStoreID	Yes	Record store to add the records to

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistcopytitle`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListCopyTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIEr-  
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronTitleListCopyTitleResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized WWW-Authenticate: PWS realm="Polaris API" HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8 <PatronTitleListCopyTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage>Could not copy record because record-store
'9999' does not exist.</ErrorMessage></PatronTitleListCopyTitleResult>

PatronTitleListCopyAllTitles

Copy all titles from one list to another list in the patron account.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_
barcode}/patrontitlelistcopyalltitles

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

```
<PatronTitleListCopyAllTitlesData>  
  <FromRecordStoreID></FromRecordStoreID>  
  <ToRecordStoreID></ToRecordStoreID>  
</PatronTitleListCopyAllTitlesData>
```

XML Body Elements

Name	Required	Description/Notes
FromRecordStoreID	Yes	Record store to copy the records from
ToRecordStoreID	Yes	Record store to add the records to

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistcopyalltitles

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<PatronTitleListCopyAllTitlesData>
  <FromRecordStoreID>123</FromRecordStoreID>
  <ToRecordStoreID>720</ToRecordStoreID>
</PatronTitleListCopyAllTitlesData>
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListCopyAllTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
</PatronTitleListCopyAllTitlesResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized WWW-Authenticate: PWS realm="Polaris API" HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8 <PatronTitleListCopyAllTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage>Could not copy record because record-store '999' does not exist.</ErrorMessage></PatronTitleListCopyAllTitlesResult>

PatronTitleListGetTitles

Returns all titles, or a range of titles by position in the list, for a specified title list in the patron account.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patrontitlelistgettitles?list={list_id}&startPosition={start_position}&endPosition={end_position}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.
list_id	Yes	Record ID of the list
start_position	No	Position in the list of the first title to return
end_position	No	Position in the list of the last title to return

Note:

If you find that a very large title list is not returned in its entirety, use the **start_position** and **end_position** parameters to have the list returned in smaller "chunks."

HTTP Verb

GET

Authorization required?

Yes

Examples

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistgettitles?list=3`

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistgettitles?list=3&startPosition=3&endPosition=8`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK Content-Type: application/xml; charset=utf-8

```
<PatronTitleListGetTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
<PatronTitleListTitleRows><PatronTitleListTitleRow>
<Position>1</Position><RecordID>9378</RecordID><Name>Quick & Easy Cooking for
One [electronic resource]</Name><LocalControlNumber>995136</LocalControlNumber>
</PatronTitleListTitleRow><PatronTitleListTitleRow><Position>2</Position>
<RecordID>9379</RecordID><Name>Quick & Easy Cooking for One [electronic
resource]</Name><LocalControlNumber>995136</LocalControlNumber>
</PatronTitleListTitleRow></PatronTitleListTitleRows>
</PatronTitleListGetTitlesResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListGetTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Could not retrieve records
because record-store '999' does not exist.</ErrorMessage>
<PatronTitleListTitleRows/></PatronTitleListGetTitlesResult>
```

PatronTitleListMoveTitle

Moves a specified bibliographic record from one title list to another; both title lists are in the same patron account.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patrontitlelistmovetitle`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

```
<PatronTitleListMoveTitleData>
<FromRecordStoreID></FromRecordStoreID>
<FromPosition></FromPosition>
<ToRecordStoreID></ToRecordStoreID>
</PatronTitleListMoveTitleData>
```

XML Body Elements

Name	Required	Description/Notes
FromRecordStoreID	Yes	Record store to move (remove) the record from
FromPosition	Yes	Position of the title in the list
ToRecordStoreID	Yes	Record store to add the record to

Examples

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/
patrontitlelistmovetitle`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<PatronTitleListMoveTitleData> <FromRecordStoreID>123</FromRecordStoreID>  
<FromPosition>3</FromPosition> <ToRecordStoreID>720</ToRecordStoreID> </Pat-  
ronTitleListMoveTitleData>
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListMoveTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIEr-  
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronTitleListMoveTitleResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<PatronTitleListMoveTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage>Could not move record because record-store '9999' does not exist.</ErrorMessage></PatronTitleLisMoveTitleResult>

PatronTitleListDeleteTitle

Deletes a single specified bibliographic record from the specified list in the patron account.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patrontitlelistdeletetitle?list={list_id}&position={position_id}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron
list_id	Yes	Unique identifier for the list
position_id	Yes	ID of the position in the list

HTTP Verb

DELETE

Authorization required?

Yes

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistdeletetitle?list=700&position=4`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgl+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListDeleteTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIError-
rorCode>1</PAPIErrorCode><ErrorMessage/></PatronTitleListDeleteTitleResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListDeleteTitleResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage>Could not remove record
because the record store does not exist.</ErrorMessage></PatronTitleListDeleteTitleResult>
```

PatronTitleListDeleteAllTitles

Removes all the records from a given list, but leaves the empty list in the patron account.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/patrontitlelistdeletealltitles?list={list_id}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.
list_id	Yes	Unique identifier for the list.

HTTP Verb

DELETE

Authorization required?

Yes

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/patrontitlelistdeletealltitles?list=700`

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListDeleteAllTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIError  
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronTitleListDeleteAllTitlesResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronTitleListDeleteAllTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage>Could not truncate record-  
store '999' because it does not exist.</ErrorMessage></PatronTitleListDeleteAllTitlesResult>
```

PatronBasicDataGet

Return basic name, address, circulation counts, and account balances for a patron.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/basicdata/`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
NameFirst	Patron's first name
NameLast	Patron's last name
NameMiddle	Patron's middle name. [Added in 4.0]
NameTitle	Patron's title
NameSuffix	Patron's suffix
PhoneNumber	Patron's primary phone number

Name	Description/Notes
PhoneNumber2	Patron's phone number 2
PhoneNumber3	Patron's phone number 23
Phone1CarrierID	Phone 1 carrier ID. Unused in 4.0. 4.1 will return the carrier ID.
Phone2CarrierID	Phone 2 carrier ID. Unused in 4.0. 4.1 will return the carrier ID.
Phone3CarrierID	Phone 3 carrier ID. Unused in 4.0. 4.1 will return the carrier ID.
CellPhone	This field has been deprecated in 4.1. For backwards compatibility, 4.1 will populate this field using the TXT #.
CellPhoneCarrierID	This field has been deprecated in 4.1. For backwards compatibility, 4.1 will populate this field using the TXT #.

Name	Description/Notes
EmailAddress	Patron's primary email address
AltEmailAddress	Patron's alternate email address
BirthDate	Patron's date of birth
RegistrationDate	Original date of registration
LastActivityDate	Date of last activity
AddrCheckDate	Date of next address check
MessageNewCount	Count of new messages

Name	Description/Notes
MessageReadCount	Count of unread messages
PatronAddresses	List of patron's addresses. Only available if the addresses query string value is supplied in the URL as a non-zero value. Ex: /basicdata?addresses=1 Address fields: AddressID FreeTextLabel StreetOne StreetTwo City State County PostalCode ZipPlusFour Country CountryID AddressTypeID
ItemsOutCount	Number of items checked out to the patron
ItemsOverdueCount	Number of overdue items checked out to the patron
ItemsOutLostCount	Number of items in lost status for the patron
HoldRequestsTotalCount	Number of Polaris and ILL hold requests for this patron
HoldRequestsCurrentCount	Number of Polaris and ILL hold requests in the following statuses: ACTIVE, PENDING, INACTIVE, SHIPPED.
HoldRequestsShippedCount	Number of Polaris hold requests in SHIPPED status (sent to library for pickup) for this patron. [Added in 4.0]
HoldRequestsHeldCount	Number of Polaris hold requests in HELD status (available for pickup) for this patron
HoldRequestsUnclaimedCount	Number of Polaris hold requests in UNCLAIMED status (available for pickup but never picked up) for this patron. [Added in 4.0]
ChargeBalance	The charge balance of the patron's account

Name	Description/Notes
CreditBalance	The credit balance of the patron's account
DepositBalance	The deposit balance of the patron's account

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/basicdata>

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:j5h3Jee/23aUWT3OGRNEF06cOFc=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronBasicDataGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronBasicData>
    <PatronID>299377</PatronID>
    <Barcode>21756003332022</Barcode>
    <NameFirst>Jeffery</NameFirst>
    <NameLast>Young</NameLast>
    <PhoneNumber>315-555-3188</PhoneNumber>
    <EmailAddress>dude@hotmail.com</EmailAddress>
    <ItemsOutCount>5</ItemsOutCount>
    <ItemsOverdueCount>2</ItemsOverdueCount>
    <ItemsOutLostCount>0</ItemsOutLostCount>
    <HoldRequestsTotalCount>13</HoldRequestsTotalCount>
    <HoldRequestsCurrentCount>0</HoldRequestsCurrentCount>
    <HoldRequestsShippedCount>0</HoldRequestsShippedCount>
    <HoldRequestsHeldCount>1</HoldRequestsHeldCount>
    <HoldRequestsUnclaimedCount>0</HoldRequestsUnclaimedCount>
    <ChargeBalance>8.3000</ChargeBalance>
    <CreditBalance>0</CreditBalance>
    <DepositBalance>0</DepositBalance>
  </PatronBasicData></PatronBasicDataGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
< PatronBasicDataGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>An error occurred  
example</ErrorMessage>< PatronBasicData i:nil="true"/>  
</ PatronBasicDataGetResult >
```

PatronCirculateBlocksGet

Validate that a patron is part of the Polaris database, and return blocks and status telling the caller if the given patron is allowed to perform a circulation activity (checkout).

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/circulationblocks

URI Parameters

Name	Required	Description/Notes
app-ID	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-ID	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-ID	Yes	Is the language identifier of the label. Possible values include: 1033 - English 1042 - Korean 1066 - Vietnamese 3082 - Spanish 3084 - French

Query String Parameters

Name	Values	Required	Description/Notes
vendorID	varchar		Ebook vendor ID'
vendorContractID	varchar		Ebook vendor contract ID
usernameSupported	Boolean		Can barcode be validated as username

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
Barcode	Patron's barcode
ValidPatron	Does patron exist in the Polaris database? false - No true - Yes
PatronID	Patron's record ID
PatronCodeID	Patron's patron code ID
AssignedBranchID	ID of the branch to which the patron is assigned
AssignedBranchName	Name of the branch to which the patron is assigned

Name	Description/Notes
ExpirationDate	Patron's registration expiration date
OverridePasswordUsed	Was password used the staff override password. (Set only if nValidationTypeID = 3)
Blocks	List of Blocks as follows: <Blocks><Block><PatronID/><PatronName/><BlockDescription/></Block></Blocks>
CanPatronCirculate	T/F value

Example

http://[HOSTNAME]/PAPIService/REST/public/v1/1033/100/1/patron/{patron_bar-code}/circulationblocks

Header

User-Agent: Fiddler
 Date: Wed, 28 Apr 2010 14:14:32 GMT
 Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=
 Host: localhost
 Content-Type: text/xml
 Content-Length: 0

Return - Success

HTTP/1.1 200 OK
 Content-Type: application/xml; charset=utf-8

```
<PatronCirculateBlocksResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <Barcode>2123400000166</Barcode>
  <ValidPatron>true</ValidPatron>
  <PatronID>356971</PatronID>
  <PatronCodeID>1</PatronCodeID>
  <AssignedBranchID>3</AssignedBranchID>
  <PatronBarcode>2123400000166</PatronBarcode>
  <AssignedBranchName>Amsterdam Free Library</AssignedBranchName>
  <ExpirationDate>2014-11-05T00:00:00</ExpirationDate>
  <OverridePasswordUsed>false</OverridePasswordUsed>
  <Blocks>
    <Block>
```

```
<PatronID>356971</PatronID>
<PatronName>Tester, Otto </PatronName>
<BlockDescription>Patron is not allowed to access this vendor account.</BlockDescription>
</Block></Blocks>
<CanPatronCirculate>false</CanPatronCirculate>
</PatronCirculateBlocksResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

CreatePatronBlocks

This protected method will create a block on a patron record.

A call to `AuthenticateStaffUser` is required before calling any protected method.

See below for a list of valid block types for patron records.

Blocks are de-duplicated on creation. Duplicate blocks are not allowed.

PAPI Error Codes Unique to This Method

PAPI Error Code	Description
-3506	Invalid block value
-3507	Duplicate block value

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/patron/{patron_bar-code}/blocks`

HTTP Verb

POST

Authorization required?

Yes

Protected?

Yes

String Query Values

Name	Values	Required	Description/Notes
Patron_barcode	string	Yes	The patron's username or barcode

Request Body XML

<CreatePatronBlocksData>

<BlockTypeID />

<BlockValue />

</CreatePatronBlocksData>

XML Body Elements

Name	Description
CreatePatronBlocksData	A container for the block data
BlockTypeID	The type of block: 1 = Free text block 2 = library assigned block 3 = System block
BlockValue	The Block value When a free text block is created - a string no more than 255 characters in length When a library assigned block is created - an integer representing a valid patron stop ID When a system block is created - the following integer values are allowed: 64 - Self-Registration from PAC Block 128 - Address update from PAC Block 256 - Express Registration Block 512 - Offline Registration Block

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message

Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bNFeV5tdiNd1ME37wZt/patron/eric1234/blocks>

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

```
<CreatePatronBlocksData>  
  <BlockTypeID>1</BlockTypeID>  
  <BlockValue>A textual block</BlockValue>  
</CreatePatronBlocksData>
```

Return

```
<CreatePatronBlocksResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
</CreatePatronBlocksResult>
```

PatronHoldRequestsGet

Returns a list of hold requests placed by the specified patron. The list can be filtered by ALL hold requests or by the status of the request.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/all`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/inactive`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/active`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/pending`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/shipped`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/held`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/notsupplied`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/unclaimed`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/expired`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/holdrequests/cancelled`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more hold requests placed by the patron. The list is sorted in ascending order by activation date.

Name	Description/Notes
HoldRequestID	Polaris ID of the Hold Request
BibID	The ID of the associated bibliographic record
StatusID	Polaris ID of the status of the hold request 1 - Inactive 3 - Active 4 - Pending 5 - Shipped 6 - Held 7 - Not Supplied 8 - Unclaimed 9 - Expired 16 - Cancelled
StatusDescription	Description of the status of the hold request
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item
FormatID	Polaris ID of the type of format (see Material Format Types)
FormatDescription	Format description
PickupBranchID	ID of branch at which the item should be picked up
PickupBranchName	Name of branch at which the item should be pickup up
PickupByDate	Date that the item will be held until
QueuePosition	Position this hold request is in the queue for this bibliographic record. This may be null depending on the status of the hold request.
QueueTotal	Total number of hold requests for this bibliographic record.
ActivationDate	Date the hold request was activated. An activation date in the future means the request is currently inactive.
ExpirationDate	Expiration date of the hold request
GroupName	Name used to identify a group of titles that can satisfy this hold request

Name	Description/Notes
ItemLevelHold	Is the request an item level hold, or will any item associated with this title satisfy the request.
BorrowByMail	Is the request a Borrow by Mail type of request. [Added in 4.0]
Designation	Designation, when present
VolumeNumber	Volume, when present
PACDisplayNotes	PAC Display Note field (maximum 255 characters)

Example

http://-
localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/holdrequests/all

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:fb5eam199jSdF5lf3SLJ+czTHpM=

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronHoldRequestsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronHoldRequestsGetRows>
    <PatronHoldRequestsGetRow>
      <HoldRequestID>801604</HoldRequestID>
      <BibID>620893</BibID>
      <StatusID>8</StatusID>
      <StatusDescription>Unclaimed</StatusDescription>
      <Title>Moose"s big idea</Title>
      <Author>Greene, Stephanie.</Author>
      <CallNumber>J Fict Gre</CallNumber>
      <FormatID>1</FormatID>
      <FormatDescription>Book</FormatDescription>
      <PickupBranchID>90</PickupBranchID>
      <PickupBranchName>Saratoga Springs Public Library</PickupBranchName>
      <PickupByDate>2008-12-13T23:59:00</PickupByDate>
      <QueuePosition>0</QueuePosition>
      <QueueTotal>0</QueueTotal>
      <ActivationDate>2008-12-03T00:00:00</ActivationDate>
      <ExpirationDate>2009-04-02T23:59:00</ExpirationDate>
      <GroupName/>
    </PatronHoldRequestsGetRow>
  </PatronHoldRequestsGetRows>
</PatronHoldRequestsGetResult>
```

```
<ItemLevelHold>false</ItemLevelHold>
</PatronHoldRequestsGetRow>
<PatronHoldRequestsGetRow>
<HoldRequestID>801645</HoldRequestID>
<BibID>84712</BibID>
<StatusID>8</StatusID>
<StatusDescription>Unclaimed</StatusDescription>
<Title>Seven plays of the modern theater.</Title>
<Author/>
<CallNumber>808.82 S49</CallNumber>
<FormatID>1</FormatID>
<FormatDescription>Book</FormatDescription>
<PickupBranchID>92</PickupBranchID>
<PickupBranchName>Schenectady County Public Library - Central</PickupBranchName>
<PickupByDate>2009-03-23T23:59:00</PickupByDate>
<QueuePosition>0</QueuePosition>
<QueueTotal>0</QueueTotal>
<ActivationDate>2008-12-09T00:00:00</ActivationDate>
<ExpirationDate>2009-06-07T23:59:00</ExpirationDate>
<GroupName/>
<ItemLevelHold>false</ItemLevelHold>
</PatronHoldRequestsGetRow>
</PatronHoldRequestsGetRows
PatronHoldRequestsGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronHoldRequestsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid Status ID Fil-
ter</ErrorMessage><PatronHoldRequestsGetRows i:nil-
l="true"/></PatronHoldRequestsGetResult>
```

PatronILLRequestsGet

This method returns a list of ILL requests placed by the specified patron. The list can be filtered by the status of the request.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/illrequests/all`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/illrequests/ReceivedTransferred`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/illrequests/cancelled`

URI Parameters

Name	Required	Description/Notes
org_id	Yes	Organization ID
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more ILL requests placed by the patron. The list is sorted in ascending order by activation date.

Name	Description/Notes
ILLRequestID	Polaris ID of the Hold Request
BibID	The ID of the associated bibliographic record
StatusID	Polaris ID of the status of the ILL request 0 - All 1 - Inactive 3 - Active 5 - Shipped 10 - ReceivedHeld 11 - ReceivedTransferred 12 - ReceivedSatisfied 13 - ReceivedUsed 14 - ReceivedUnUsed 15 - Returned 16 - Cancelled
StatusDescription	Description of the status of the ILL request
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item (only populated after item is "received")
VolumeAndIssue	Volume and issue number if applicable
FormatID	Polaris ID of the type of material (TOM)
FormatDescription	Format description (TOM description)
PickupBranchID	ID of branch at which the item should be picked up
PickupBranchName	Name of branch at which the item should be pickup up
PickupByDate	Date that the item will be held until

Name	Description/Notes
ActivationDate	Date the ILL request was activated. An activation date in the future means the request is currently inactive.
NeedByDate	Provided by patron as the date by which the request is needed
OPACNotes	Note in public access catalog

Example

http://localhost/PAPIService/REST/public/v1/1033/100/3/patron/21234000002105//illrequests/all

http://localhost/PAPIService/REST/public/v1/1033/100/3/patron/21234000002105//illrequests/ReceivedTransferred

Header

Date: Wed, 09 Oct 2016 22:23:32 GMT

Authorization: PWS polarisdev:fB5eam199jSdF5lf3SLJ+czTHpM=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<PatronILLRequestsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<PAPIErrorCode>0</PAPIErrorCode>

<ErrorMessage></ErrorMessage>

<PatronILLRequestsGetRows>

<PatronILLRequestsGetRow>

<ILLRequestID>6</ILLRequestID>

<ILLStatusID>11</ILLStatusID>

<PatronID>71128</PatronID>

<ItemRecordID>9475571</ItemRecordID>

<BibRecordID>806821</BibRecordID>

<PickupBranchID>107</PickupBranchID>

```
<Author i:nil="true" />
<Title>HARRY POTTER AND THE GOBLET OF FIRE BOO</Title>
<Format>Sound Recording</Format>
<CreationDate>2008-03-05T10:08:54.857</CreationDate>
<ActivationDate>2011-11-18T09:06:06.86</ActivationDate>
<Status>Received</Status>
<Item>Transferred</Item>
<NeedByDate>2009-03-05T00:00:00</NeedByDate>
<PickupBranch>Waterford Public Library</PickupBranch>
<FormatID>5</FormatID>
<LastStatusTransitionDate>2011-12-06T16:21:12.857</LastStatusTransitionDate>
<OpacNotes i:nil="true" />
<CallNumber>ILL</CallNumber>
<VolumeAndIssue i:nil="true" />
<PickupByDate i:nil="true" />
</PatronILLRequestsGetRow>
</PatronILLRequestsGetRows>
</PatronILLRequestsGetResult>
```

Error Message

If the organization ID does not exist in the database, error code -5000 ("Invalid OrganizationID supplied") is returned.

PatronItemsOutGet

Returns list of items out to the specified patron. The list can be filtered by ALL items out, OVERDUE items only, or LOST items only.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/itemsout/all`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/itemsout/overdue`

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/itemsout/lost`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more items checked out to or lost by the patron. The list is sorted in ascending order by due date.

Name	Description/Notes
ItemID	Polaris ID of the item record

Name	Description/Notes
Barcode	The item barcode
BibID	The ID of the associated bibliographic record
FormatID	Polaris ID of the type of format (see Material Format Types)
FormatDescription	Format description
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item
CheckOutDate	Check Out Date of the item
DueDate	Due Date of the item
RenewalCount	Number of times item has been renewed by this patron. (For LOST items, this value will always be '0').
RenewalLimit	Maximum number of times this item can be renewed by this patron. (For LOST items, this value will always be '0').
AssignedBranchID	Polaris ID of the branch to which the item is assigned.
AssignedBranchName	Name of the branch to which the item is assigned.
LoaningBranchID	Polaris ID of the branch from which the item was checked out.
LoaningBranchName	Name of the branch from which the item was checked out.
BillingNoticeSent	(Boolean value) Was a billing notice sent for this item?
ReplacementChargeTxnID	(Integer value) Patron account transaction ID for a replacement charge (Can be used for accrued fines)
ProcessingChargeTxnID	(Integer value) Patron account transaction ID for a processing charge (Can be used for accrued fines)
OverdueChargeTxnID	(Integer value) Patron account transaction ID for an overdue charge (Can be used for accrued fines)
DisplayInPAC	(Boolean value) Is this item displayable to the public?
ElectronicItem	(Boolean value) Is this an electronic item?
VendorName	The vendor name associated with the electronic item
VendorAccountName	The vendor account name associated with the electronic item
VendorObjectIdentifier	The unique ID of the electronic item in the vendor's repository
ISBN	The ISBNs of the associated bibliographic records
ISSN	The ISSN of the associated bibliographic records
OCLCNumber	The OCLC number of the associated bibliographic records
UPCNumber	The UPC number of the associated bibliographic records
Designation	Designation, when present.
VolumeNumber	Volume, when present.
CanItemBeRenewed	Indicates whether item is renewable

Example

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/itemsout/all`

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:IK0cRxywhfBT4oPoLEsoRBDkAVo=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronItemsOutGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronItemsOutGetRows><PatronItemsOutGetRow>
    <ItemID>2859638</ItemID>
    <Barcode>0000204137301</Barcode>
    <BibID>740185</BibID>
    <FormatID>1</FormatID>
    <FormatDescription>New / Popular Book</FormatDescription>
    <Title>iPhone for dummies</Title>
    <Author>Baig, Edward.</Author>
    <CallNumber>384.53 Bai</CallNumber>
    <CheckOutDate>2013-07-01T16:18:55.4</CheckOutDate>
    <DueDate>2013-06-03T23:59:00</DueDate>
    <RenewalCount>0</RenewalCount>
    <RenewalLimit>1</RenewalLimit>
    <AssignedBranchID>90</AssignedBranchID>
    <AssignedBranchName>Saratoga Springs Public Library</AssignedBranchName>
    <LoaningBranchID>3</LoaningBranchID>
    <LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
    <BillingNoticeSent>>false</BillingNoticeSent>
    <ReplacementChargeTxnID>0</ReplacementChargeTxnID>
    <ProcessingChargeTxnID>0</ProcessingChargeTxnID>
    <OverdueChargeTxnID>0</OverdueChargeTxnID>
    <DisplayInPAC>true</DisplayInPAC>
    <ElectronicItem>>false</ElectronicItem>
    <VendorName/><VendorAccountName/>
    <VendorObjectIdentifier/><ISBN>9780470174692</ISBN>
    <ISSN/>
    <OCLCNumber/>
    <UPCNumber/>
  </PatronItemsOutGetRow><PatronItemsOutGetRow>
    <ItemID>2053700</ItemID>
    <Barcode>0004300389444</Barcode>
    <BibID>191918</BibID>
    <FormatID>34</FormatID>
    <FormatDescription>Video</FormatDescription>
```

```
<Title>High noon [videorecording]</Title>
<Author/>
<CallNumber>VC Fict Hig</CallNumber>
<CheckOutDate>2013-06-20T11:16:43.767</CheckOutDate>
<DueDate>2013-06-25T23:59:00</DueDate>
<RenewalCount>0</RenewalCount>
<RenewalLimit>0</RenewalLimit>
<AssignedBranchID>3</AssignedBranchID>
<AssignedBranchName>Amsterdam Free Library</AssignedBranchName>
<LoaningBranchID>3</LoaningBranchID>
<LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
<BillingNoticeSent>>false</BillingNoticeSent>
<ReplacementChargeTxnID>0</ReplacementChargeTxnID>
<ProcessingChargeTxnID>0</ProcessingChargeTxnID>
<OverdueChargeTxnID>0</OverdueChargeTxnID>
<DisplayInPAC>>true</DisplayInPAC>
<ElectronicItem>>false</ElectronicItem>
<VendorName/><VendorAccountName/>
<VendorObjectIdentifier/><ISBN>9780782008340</ISBN>
<ISSN/>
<OCLCNumber/>
<UPCNumber/>
</PatronItemsOutGetRow><PatronItemsOutGetRow>
<ItemID>473009</ItemID>
<Barcode>0000405998279</Barcode>
<BibID>366061</BibID>
<FormatID>34</FormatID>
<FormatDescription>Video</FormatDescription>
<Title>Unforgiven [videorecording]</Title>
<Author/>
<CallNumber>VC Fict Unf</CallNumber>
<CheckOutDate>2013-06-20T11:15:07.94</CheckOutDate>
<DueDate>2013-06-25T23:59:00</DueDate>
<RenewalCount>0</RenewalCount>
<RenewalLimit>0</RenewalLimit>
<AssignedBranchID>3</AssignedBranchID>
<AssignedBranchName>Amsterdam Free Library</AssignedBranchName>
<LoaningBranchID>3</LoaningBranchID>
<LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
<BillingNoticeSent>>false</BillingNoticeSent>
<ReplacementChargeTxnID>0</ReplacementChargeTxnID>
<ProcessingChargeTxnID>0</ProcessingChargeTxnID>
<OverdueChargeTxnID>0</OverdueChargeTxnID>
<DisplayInPAC>>true</DisplayInPAC>
<ElectronicItem>>false</ElectronicItem>
<VendorName/><VendorAccountName/>
<VendorObjectIdentifier/><ISBN>9780790734316</ISBN>
<ISSN/>
<OCLCNumber/>
<UPCNumber/>
</PatronItemsOutGetRow><PatronItemsOutGetRow>
```

```
<ItemID>2767531</ItemID>
<Barcode>0004300705433</Barcode>
<BibID>723173</BibID>
<FormatID>1</FormatID>
<FormatDescription>Book</FormatDescription>
<Title>Jesse James : legendary rebel and outlaw</Title>
<Author>Robinson, J. Dennis.</Author>
<CallNumber>J 364.15 Rob</CallNumber>
<CheckOutDate>2013-06-20T11:13:27.367</CheckOutDate>
<DueDate>2013-07-18T23:59:00</DueDate>
<RenewalCount>0</RenewalCount>
<RenewalLimit>1</RenewalLimit>
<AssignedBranchID>3</AssignedBranchID>
<AssignedBranchName>Amsterdam Free Library</AssignedBranchName>
<LoaningBranchID>3</LoaningBranchID>
<LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
<BillingNoticeSent>>false</BillingNoticeSent>
<ReplacementChargeTxnID>0</ReplacementChargeTxnID>
<ProcessingChargeTxnID>0</ProcessingChargeTxnID>
<OverdueChargeTxnID>0</OverdueChargeTxnID>
<DisplayInPAC>>true</DisplayInPAC>
<ElectronicItem>>false</ElectronicItem>
<VendorName/>
<VendorAccountName/>
<VendorObjectIdentifier/><ISBN>9780756518714</ISBN>
<ISSN/>
<OCLCNumber/>
<UPCNumber/>
</PatronItemsOutGetRow><PatronItemsOutGetRow>
<ItemID>2069573</ItemID>
<Barcode>0004300572676</Barcode>
<BibID>275667</BibID>
<FormatID>1</FormatID>
<FormatDescription>Book</FormatDescription>
<Title>The lion, the witch, and the wardrobe</Title>
<Author>Lewis, C. S. (Clive Staples), 1898-1963.</Author>
<CallNumber>j PB Fict Lew #2</CallNumber>
<CheckOutDate>2013-06-20T11:17:34.973</CheckOutDate>
<DueDate>2013-07-18T23:59:00</DueDate>
<RenewalCount>0</RenewalCount>
<RenewalLimit>0</RenewalLimit>
<AssignedBranchID>3</AssignedBranchID>
<AssignedBranchName>Amsterdam Free Library</AssignedBranchName>
<LoaningBranchID>3</LoaningBranchID>
<LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
<BillingNoticeSent>>false</BillingNoticeSent>
<ReplacementChargeTxnID>0</ReplacementChargeTxnID>
<ProcessingChargeTxnID>0</ProcessingChargeTxnID>
<OverdueChargeTxnID>0</OverdueChargeTxnID>
<DisplayInPAC>>true</DisplayInPAC>
<ElectronicItem>>false</ElectronicItem>
```

```
<VendorName/>
<VendorAccountName/>
<VendorObjectIdentifier/><ISBN>9780064471046</ISBN>
<ISSN/>
<OCLCNumber/><UPCNumber/>
</PatronItemsOutGetRow><PatronItemsOutGetRow>
<ItemID>2870627</ItemID>
<Barcode>0000504977653</Barcode>
<BibID>742588</BibID>
<FormatID>1</FormatID>
<FormatDescription>Book</FormatDescription>
<Title>Stormbringer</Title>
<Author>Furman, Simon.</Author>
<CallNumber>J Fict Fur</CallNumber>
<CheckOutDate>2013-06-20T11:18:35.96</CheckOutDate>
<DueDate>2013-07-18T23:59:00</DueDate>
<RenewalCount>0</RenewalCount>
<RenewalLimit>3</RenewalLimit>
<AssignedBranchID>29</AssignedBranchID>
<AssignedBranchName>Crandall Public Library (Glens Falls)</AssignedBranchName>
<LoaningBranchID>3</LoaningBranchID>
<LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
<BillingNoticeSent>>false</BillingNoticeSent>
<ReplacementChargeTxnID>0</ReplacementChargeTxnID>
<ProcessingChargeTxnID>0</ProcessingChargeTxnID>
<OverdueChargeTxnID>0</OverdueChargeTxnID>
<DisplayInPAC>>true</DisplayInPAC>
<ElectronicItem>>false</ElectronicItem>
<VendorName/>
<VendorAccountName/>
<VendorObjectIdentifier/><ISBN>9781600100185</ISBN>
<ISSN/>
<OCLCNumber>AMI-2128</OCLCNumber>
<UPCNumber/>
</PatronItemsOutGetRow><PatronItemsOutGetRow>
<ItemID>2055372</ItemID>
<Barcode>0004300409564</Barcode>
<BibID>281801</BibID>
<FormatID>1</FormatID>
<FormatDescription>Book</FormatDescription>
<Title>Kayaking : whitewater and sea</Title>
<Author>Ford, Kent, 1957-</Author>
<CallNumber>797.1 For</CallNumber>
<CheckOutDate>2013-07-11T13:21:57.47</CheckOutDate>
<DueDate>2013-08-08T23:59:00</DueDate>
<RenewalCount>1</RenewalCount>
<RenewalLimit>0</RenewalLimit>
<AssignedBranchID>3</AssignedBranchID>
<AssignedBranchName>Amsterdam Free Library</AssignedBranchName>
<LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free
```

```
Library</LoaningBranchName>
<BillingNoticeSent>>false</BillingNoticeSent>
<ReplacementChargeTxnID>0</ReplacementChargeTxnID>
<ProcessingChargeTxnID>0</ProcessingChargeTxnID>
<OverdueChargeTxnID>0</OverdueChargeTxnID>
<DisplayInPAC>>true</DisplayInPAC>
<ElectronicItem>>false</ElectronicItem>
<VendorName/><VendorAccountName/>
<VendorObjectIdentifier/><ISBN>9780873226882</ISBN>
<ISSN/>
<OCLCNumber/>
<UPCNumber/>
</PatronItemsOutGetRow></PatronItemsOutGetRows>
</PatronItemsOutGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronItemsOutGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid Status ID Fil-
ter</ErrorMessage><PatronItemsOutGetRows i:nil="true"/></PatronItemsOutGetResult>
```

PatronMessagesGet

Retrieves a list of new and read patron messages.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/messages

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

Query String Parameters

Name	Required	Description/Notes
unreadonly		Set to 1 to return only new messages.

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
Type	0 = Freetext message, 1 = Library defined
ID	Message ID
OrgName	Name of organization that created the message
Date	Date message was created
Value	Message text
isRead	Has the message been marked as read

Examples

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/messages`

**`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/
messages?unreadonly=1`**

PatronMessageUpdateStatus

Marks a message as read.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/messages/{message_type}/{message_ID}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron
message_type	Yes	Type of message. Valid values: freetext librarydefined
message_ID	Yes	ID of patron message

HTTP Verb

PUT

Authorization required?

Yes

Examples

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/messages/freetext/80`

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/messages/librarydefined/2`

PatronMessageDelete

Delete a specific patron message.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/messages/{message_type}/{message_ID}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron
message_type	Yes	Type of message. Valid values: freetext librarydefined
message_ID	Yes	ID of patron message

HTTP Verb

DELETE

Authorization required?

Yes

Examples

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/messages/freetext/80`

`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/messages/librarydefined/2`

PatronPreferencesGet

Return preferences for a patron including reading list, email format, and notification type.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/preferences`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
ReadingListEnabled	Should Polaris maintain a reading list of items previously checked out to the patron.
DeliveryMethodID	ID of the how notifications should be delivered 1 - Mailing Address 2 - Email Address 3 - Telephone 1 4 - Telephone 2

Name	Description/Notes
	5 - Telephone 3 6 - FAX 7 - EDI
DeliveryMethodDescription	Description of how notifications should be delivered
DeliveryEmailFormatID	ID of the type of format of Polaris-generated email messages 1 - Plain text 2 - HTML
DeliveryEmailFormatDescription	Description of the type of format of Polaris-generated email messages

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/preferences>

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:vNWQ+aJgcZaElNvc34tlQadiFTQ=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronPreferencesGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronPreferences>
    <PatronID>299377</PatronID>
    <Barcode>21756003332022</Barcode>
    <ReadingListEnabled>true</ReadingListEnabled>
    <DeliveryMethodID>3</DeliveryMethodID>
    <DeliveryMethodDescription>Telephone 1</DeliveryMethodDescription>
    <DeliveryEmailFormatID>2</DeliveryEmailFormatID>
    <DeliveryEmailFormatDescription>HTML</DeliveryEmailFormatDescription>
  </PatronPreferences></PatronPreferencesGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronPreferencesGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage>Example error mes-  
sage</ErrorMessage><PatronPreferences/></PatronPreferencesGetResult>
```

PatronReadingHistoryClear

Clears the historical list of items a patron has checked out.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/readinghistory`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

DELETE

Authorization required?

Yes

Example

`http://-
localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/readinghistory`

Header

User-Agent: Fiddler
Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:GSGMKL0P4StmQtEayaABYE2lweo=
Host: localhost

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronReadingHistoryClearResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance">  
<PAPIErrorCode>9</PAPIErrorCode>  
<ErrorMessage/>  
</PatronReadingHistoryClearResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

PatronRegistrationCreate

Create a new patron registration record; basic patron duplicate detection (name, username, barcode) is performed.

URI

`/public/{version}/{lang_ID}/{app_ID}/{org_ID}/patron`

XML Body Elements

Important:

XML elements must be in the order shown below.

Name	Order	Required	Description/Notes
LogonBranchID	1	Yes	Transaction processing field
LogonUserID	2	Yes	Transaction processing field
LogonWorkstationID	3	Yes	Transaction processing field
PatronBranchID	4	Yes	Patron's registering branch
PostalCode	5		Patron postal code
ZipPlusFour	6		Patron zip+4 code
City	7		Patron city
State	8		Patron state
County	9		Patron county
CountryID	10		Patron country
StreetOne	11		Patron street one
StreetTwo	12		Patron street two
NameFirst	13	Yes	Patron first name
NameLast	14	Yes	Patron last name
NameMiddle	15		Patron middle name
User1	16		System defined field for patron data
User2	17		System defined field

Name	Order	Required	Description/Notes
			for patron data
User3	18		System defined field for patron data
User4	19		System defined field for patron data
User5	20		System defined field for patron data
Gender	21		Use M, F, or N (not applicable)
Birthdate	22		Patron birthdate
PhoneVoice1	23		Patron phone
PhoneVoice2	24		Patron phone
EmailAddress	25		Patron email
LanguageID	26		Patron language iD - From Languages table 1 - English 2 - Spanish 3 - German 4 - French
DeliveryOptionID	27		1 Mail, 2 Email, 3 Telephone 1, 4 Telephone 2, 5 Telephone 3, 6 FAX, 7 EDI, 8 TXT messaging

Name	Order	Required	Description/Notes
UserName	28		Online user name
Password	29		Patron password
Password2	30		Patron password duplicate (for verification)
AltEmailAddress	31		Patron alternate email
PhoneVoice3	32		Patron phone
Phone1CarrierID	33		Phone 1 carrier ID. Database field not supported in 4.0 but included in the API to provide continuity with 4.1. Sample list from SA_Mobilephonecarriers table: 1 - AT&T 2 - Bell Canada 8 - Sprint 9 - T_Mobile 10 - Tracfone 11 - Verizon 17 - Boost Mobile 22 - Rogers Canada
Phone2CarrierID	34		Phone 2 carrier ID. Database field not supported in 4.0 but included in the API to provide continuity with 4.1.

Name	Order	Required	Description/Notes
Phone3CarrierID	35		Phone 3 carrier ID. Database field not supported in 4.0 but included in the API to provide continuity with 4.1.
EnableSMS	36		Enable text messaging 0 - Do not send additional text notice 1 - Send additional text notice
TxtPhoneNumber	37		Phone number for TXT messaging 1 - PhoneVoice1 2 - PhoneVoice2 3 - PhoneVoice3 Also used for cell phone number in Polaris 4.0. See Cell Phone Field in Polaris 4.0.
Barcode	38		Patron barcode (if not auto-assigning)
EReceiptOptionID	39		Ereceipt option ID [4.1 only] 2 - Email Address 8 - TXT Messaging 100 - All
ExpirationDate	40		Patron card expiration date. Default used when date not provided.
AddrCheckDate	41		Patron card address check date. Default used when date not

Name	Order	Required	Description/Notes
			provided.
PatronCode	42		ID of patron code assigned to patron. Default used when ID not provided.

Cell Phone Field in Polaris 4.0

In Polaris 4.0, you may set the patron's Cell Phone (deprecated in v4.1) by using the TxtPhoneNumber element. Specifying this element will set the Cell Phone field and will use the corresponding carrier ID to populate the CellPhoneCarrierID (deprecated in v4.1).

Example:

```
<PhoneVoice1>315-555-1212</PhoneVoice1>
<PhoneVoice3>315-555-1111</PhoneVoice3>
<Phone3CarrierID>1</Phone3CarrierID>
<TxtPhoneNumber>3</TxtPhoneNumber>
```

In this example, the 4.0 patron registration record will be populated as follows:

PhoneVoice1: 315-555-1212

PhoneVoice3: NULL

CellPhone: 315-555-1111

CellPhoneCarrierID: 1

The passed-in phone voice field used for the TxtPhoneNumber will be set to NULL to support the v4.0 to v4.1 conversion later. The v4.1 database upgrade will move the v4.0 CellPhone field into the first NULL PhoneVoice database field.

HTTP Verb

POST

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
Barcode	Patron barcode (can be input also if known ahead of time)
PatronID	Polaris Patron ID for newly created Patron

Example

<http://localhost/PAPIService/REST/public/v1/1033/100/1/patron>

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Content-Length: 133

Body

```
<PatronRegistrationCreateData>
  <LogonBranchID>1</LogonBranchID>
  <LogonUserID>1</LogonUserID>
  <LogonWorkstationID>1</LogonWorkstationID>
  <PatronBranchID>74</PatronBranchID>
  <PostalCode>13090</PostalCode>
  <City>Liverpool</City>
  <State>NY</State>
  <StreetOne>100 Main Street</StreetOne>
  <NameFirst>Gary</NameFirst>
  <NameLast>Unmarried</NameLast>
  <PhoneVoice1>555-1212</PhoneVoice1>
  <EmailAddress>dude@hotmail.com</EmailAddress>
  <UserName>PolarisDude</UserName>
```

```
<Password>1234</Password>
<Password2>1234</Password2>
</PatronRegistrationCreateData>
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronRegistrationCreateResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
<Barcode>PACREG357166</Barcode><PatronID>357166</PatronID>
</PatronRegistrationCreateResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronRegistrationCreateResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Procedure or function
'PAPI_PatronRegistrationCreate' expects parameter '@nPatronBranchID', which was not sup-
plied.</Er-
rorMessage><Barcode/><PatronID>0</PatronID></PatronRegistrationCreateResult>
```

Patron_RenewBlocksGet

This method takes in a Patron ID and returns patron renewal blocks (if any). It also indicates whether the patron is allowed to renew (the blocks may be informational or actual blocks). It is a protected method and staff must authenticate before calling this method.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/circulation/patron/{patronid}/renewblocks

HTTP Verb

GET

Authorization required?

Yes

Protected?

Yes

Result - Example 1

```
<RenewBlocksResult xmlns:i="http://www.w3.org/2001/XMLSchemainstance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <Blocks>
    <Block>
      <PatronID>137096</PatronID>
      <PatronName>Joseph, Sarah </PatronName>
      <BlockDescription>This action is not permitted. Please contact the library regarding your
      account.</BlockDescription>
    </Block>
  </Blocks >
  <CanPatronRenew>>false</ CanPatronRenew >
</RenewBlocksResult >
```

Result - Example 2

```
<CanPatronRenewResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <Blocks />
  <CanPatronRenew >true</ CanPatronRenew>
</CanPatronRenewResult>
```


PatronSavedSearchesGet

Returns list of saved searches to the specified patron.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/savedsearches`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more searches saved by the patron. The list is sorted in ascending order by last run date.

Name	Description/Notes
SDISearchID	Polaris ID of the search record
SDIName	Name of search for identification
SearchCriteria	The search string
SearchPeriod	The search period
LastRunDate	Date the saved search was last run by PolSDIServer

Name	Description/Notes
NotifyOnNoResults	Indicates that the patron wants to be notified when a search has been run and no new results were found, contrary is that no email is sent.
EmailResultsTo	The email address to send search results to.
ResultsCount	Number of search results (Bibliographic Records found) for saved searches

Example

http://-
localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/savedsearches

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:Ngkz49ZiIzv/McX53kUnKupJkQM=

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronSavedSearchesGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <PatronSavedSearchesGetRows>
    <PatronSavedSearchesGetRow>
      <SDISearchID>1498</SDISearchID>
      <SDIName>Roosevelt</SDIName>
      <SearchCriteria>FIND KW={freetext}roosevelt{/freetext} AND AB=3</SearchCriteria>
      <SearchPeriod>Monthly</SearchPeriod>
      <LastRunDate>2009-02-18T05:11:04</LastRunDate>
      <NotifyOnNoResults>true</NotifyOnNoResults>
      <EmailResultsTo>dude@polarislibrary.com</EmailResultsTo>
      <ResultsCount>10</ResultsCount>
    </PatronSavedSearchesGetRow>
    <PatronSavedSearchesGetRow>
      <SDISearchID>1499</SDISearchID>
      <SDIName>Roosevelt Book</SDIName>
      <SearchCriteria>FIND KW={freetext}roosevelt{/freetext} AND AB=3</SearchCriteria>
      <SearchPeriod>Monthly</SearchPeriod>
      <LastRunDate>2009-02-18T05:11:05</LastRunDate>
      <NotifyOnNoResults>true</NotifyOnNoResults>
      <EmailResultsTo>dude@polarislibrary.com</EmailResultsTo>
      <ResultsCount>10</ResultsCount>
    </PatronSavedSearchesGetRow>
  </PatronSavedSearchesGetRows>
</PatronSavedSearchesGetResult>
```

```
</PatronSavedSearchesGetRows>  
</PatronSavedSearchesGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronSavedSearchesGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-  
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Specified cast is not val-  
id.</ErrorMessage><PatronSavedSearchesGetRows/></PatronSavedSearchesGetResult>
```

PatronReadingHistoryGet

Returns historical list of items patron has checked out. The procedure is capable of returning just a count of the total number of titles in the patron's check-out history, a list of all titles in the history, or a specific page of titles of a specified length.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}/readinghistory`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

Query String Parameters

Name	Values	Required	Description/Notes
page	-1, 0, >0*	Yes	-1 = Return count only 0 = Return ALL rows > 0 =Start page
rowsperpage	>0	Yes	Number of rows to return on a page

To retrieve the patron's entire reading history, pass in the query string **?rowsperpage=5&page=0**

To retrieve the count of total reading history rows for this patron, use **page=-1**. The entire reading history will not returned. If you want to retrieve the patron's last ten items without pulling in the entire list, for example, you can use this count to calculate the actual page number needed.

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more items checked out to the patron. The list is sorted in ascending order by check-out date.

Name	Description/Notes
ItemID	Polaris ID of the item record
Barcode	The item barcode
BibID	The ID of the associated bibliographic record
FormatID	Polaris ID of the type of format (see 'Material Format Types')
FormatDescription	Format description
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item
CheckOutDate	Check Out Date of the item
LoaningBranchID	Polaris ID of the branch from which the item was checked out.
LoaningBranchName	Name of the branch from which the item was checked out.

Example**http://-****loc-****alhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/readinghistory?page=1&rowsperpage****Header****Date: Wed, 09 Oct 2009 22:23:32 GMT****Authorization: PWS polarisdev:2e89s01d0tX1IBH8Lm7f8aSEvsk=**

Return- Success**HTTP/1.1 200 OK****Content-Type: application/xml; charset=utf-8**

```
<PatronReadingHistoryGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>5</PAPIErrorCode>
  <ErrorMessage/>
  <PatronReadingHistoryGetRows>
    <PatronReadingHistoryGetRow>
      <ItemID>2254290</ItemID>
      <Barcode>123</Barcode>
      <BibID>373330</BibID>
      <FormatID>34</FormatID>
      <FormatDescription>Videotape</FormatDescription>
      <Title>My girl 2 [videorecording]</Title>
      <Author/>
      <CallNumber>VC Fict My</CallNumber>
      <CheckOutDate>2008-10-01T14:14:37</CheckOutDate>
      <LoaningBranchID>3</LoaningBranchID>
      <LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
    </PatronReadingHistoryGetRow>
    <PatronReadingHistoryGetRow>
      <ItemID>9</ItemID>
      <Barcode>0000100000611</Barcode>
      <BibID>180576</BibID>
      <FormatID>1</FormatID>
      <FormatDescription>Book</FormatDescription>
      <Title>Michael's first day at school</Title>
      <Author>Coles, Alison.</Author>
      <CallNumber>JP Fict</CallNumber>
      <CheckOutDate>2009-02-24T13:43:09</CheckOutDate>
      <LoaningBranchID>3</LoaningBranchID>
      <LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
    </PatronReadingHistoryGetRow><PatronReadingHistoryGetRow>
      <ItemID>1399725</ItemID>
      <Barcode>0001000212249</Barcode>
      <BibID>145886</BibID>
      <FormatID>1</FormatID>
      <FormatDescription>Book</FormatDescription>
      <Title>Hang gliding</Title>
      <Author>Schmitz, Dorothy Childers.</Author>
      <CallNumber>j 797.5 S35</CallNumber>
      <CheckOutDate>2009-02-24T13:46:19</CheckOutDate>
      <LoaningBranchID>3</LoaningBranchID>
      <LoaningBranchName>Amsterdam Free Library</LoaningBranchName>
    </PatronReadingHistoryGetRow>
    <PatronReadingHistoryGetRow>
      <ItemID>2450585</ItemID>
      <Barcode>00000203853932</Barcode>
      <BibID>263991</BibID>
      <FormatID>1</FormatID>
```

```
<FormatDescription>Book</FormatDescription>
<Title>Junie B. Jones and some sneaky peeky spying</Title>
<Author>Park, Barbara.</Author>
<CallNumber>J Fict Par</CallNumber>
<CheckOutDate>2009-02-24T15:19:42</CheckOutDate>
<LoaningBranchID>90</LoaningBranchID>
<LoaningBranchName>Saratoga Springs Public Library</LoaningBranchName>
</PatronReadingHistoryGetRow>
<PatronReadingHistoryGetRow>
<ItemID>203302</ItemID>
<Barcode>0000203068887</Barcode>
<BibID>308725</BibID>
<FormatID>1</FormatID>
<FormatDescription>Book</FormatDescription>
<Title>Junie B. Jones has a monster under her bed</Title>
<Author>Park, Barbara.</Author>
<CallNumber>J Fict Par</CallNumber>
<CheckOutDate>2009-02-25T11:22:26</CheckOutDate>
<LoaningBranchID>90</LoaningBranchID>
<LoaningBranchName>Saratoga Springs Public Library</LoaningBranchName>
</PatronReadingHistoryGetRow>
</PatronReadingHistoryGetRows>
</PatronReadingHistoryGetResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronReadingHistoryGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid page sup-
plied</ErrorMessage><PatronReadingHistoryGetRows i:nil-
l="true"/></PatronReadingHistoryGetResult>
```

PatronSearch

This protected method will return a list of patrons that match the search criteria specified in the CCL submitted by the user. Data returned includes the patron's name, barcode, Polaris Patron ID, and Polaris Organization ID. This method offers query parameters that allow the user to specify the number of patrons, the sort order, and page of data to retrieve.

A call to `AuthenticateStaffUser` is required before calling any protected method.

See below for a list of valid CCL access points and sort keys for patron records.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/search/patrons/boolean?q={ccl}`

HTTP Verb

GET

Authorization required?

Yes

Protected?

Yes

String Query Values

Name	Values	Required	Description/Notes
q	string	Yes	Common Command Language (CCL) snippet. Must be URL encoded.
patronsperpage	>0	No	Maximum number of patrons to return default is 10
page	>0	No	Page number Default

Name	Values	Required	Description/Notes
			is 1
sort	string	No	CCL specifying the sort order of the return values

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code: Negative values represent errors and are defined elsewhere. Please note: On successful completion, the PAPI error code is populated with a positive integer representing the number of rows returned.
ErrorMessage	Error or information message
WordList	A list of the keywords included in the CCL statement
TotalRecordsFound	The total number of records found that met the search criteria
PatronSearchRows	A list of patron data
PatronSearchRow	Container for the data row
PatronID	The patron's ID
Barcode	The patron's Barcode
OrganizationID	The patron's Organization
PatronFirstLastName	The patron's first and last name

Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bNFeV5tdiNd1ME37wZt/search/patrons/Boolean?q=EM%3Deric.graham%40polarislibrary.com>

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
 Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
 Content-Type: text/xml

Body: N/A

Return

```
<PatronSearchResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>1</PAPIErrorCode><ErrorMessage/>
  <WordList>eric.graham@polarislibrary.com </WordList>
  <TotalRecordsFound>1</TotalRecordsFound>
  <PatronSearchRows>
    <PatronSearchRow>
      <PatronID>356956</PatronID>
      <Barcode>eric1234</Barcode>
      <OrganizationID>3</OrganizationID>
      <PatronFirstLastName>Shaw, Eric C</PatronFirstLastName>
    </PatronSearchRow>
  </PatronSearchRows>
</PatronSearchResult>
```

Patron Access Points

Access Point	Description
ADCK	Address check date
BD	Birth date
BILL	Billed
BLOCKFT	Free text block
BLOCKLIB	Library-assigned block
EM	Email address
EXD	Expiration date
FAX	Fax
LA	Language
LAD	Last activity date
NOTE	Notes
PATAD	Address
PATB	Barcode
PATC	Patron code
PATL	Patron's registered library
PATN	Name
PATNF	Name (First Middle Last)
PATNL	Name (Last, First Middle)

Access Point	Description
PHONE	Phone
PREB	Former barcode
PRID	Record ID
REGD	Registration date
STAC	Statistical class
X1	Library defined field #1
X2	Library defined field #2
X3	Library defined field #3
X4	Library defined field #4
X5	Library defined field #5
ZIP	Postal code

Patron Sort Keys

Access Point	Description
CITY	City
ORG	Patron's Organization
PATB	Barcode
PATN	Name
PATNL	Name (Last, First Middle)
STATE	State
ZIP	Postal code

Additional CCL Examples

EM=*polarislibrar* AND PATL=3 AND PATNF=shaw

EM%3D*polarislibrar*%20AND%20PATL%3D3%20AND%20PATNF%3Dshaw

EM=eric.graham@polarislibrary.com

EM%3Deric.graham%40polarislibrary.com

PHONE=315*652*

PHONE%3D315*652*

PatronUpdate

Update Patron Registration information.

In Polaris 5.2, this method supports patron requests to change address. If this option is set in the Polaris Administration PAC profile **Patron Access Options - Contact info**, **Patron can request address change** and the patron requests a change, an email message confirming the request is sent to the patron if this option is set in the **Patron Access Options** profile, a Verify Patron block is placed on the patron record, and an email message is sent to a staff member. An error message (Address changerequest not permitted, -501) is sent if the **Patron can request address change** option is not set.

You can remove an email address by sending a blank EmailAddress or Altemail address in the request body; for example: **<EmailAddress><\EmailAddress>** would remove whatever was in the record.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

Request Body XML

Important:

XML elements must be in the order shown below.

<PatronUpdateData>

<LogonBranchID/>

<LogonUserID/>

<LogonWorkstationID/>

<ReadingListFlag/>

<EmailFormat/>

<DeliveryOptionID/>

<EmailAddress/>

<PhoneVoice1/>

<Password>

</PatronUpdateData>

XML Body Elements

Name	Required	Description/Notes
LogonBranchID	Yes	Current Branch (can default to System [1])
LogonUserID	Yes	Current User (can default to PolarisExec)
LogonWorkstationID	Yes	Current Workstation (can default to OPACDefault)
ReadingListFlag		Enable or disable reading list
EmailFormat		Format of email: 1 - Plain Text 2 - HTML
DeliveryOptionID		Delivery options: 0 - None 1- Mailing address 2- Email address 3- Telephone 1 4- Telephone 2 5- Telephone 3 6- FAX 7- EDI 8- TXT Messaging

Name	Required	Description/Notes
Email Address		Email address
PhoneVoice1		Primary phone number
Password		Patron's password
AltEmail address		Alternate email address
EnableSMS		Allow text messaging
PhoneVoice2		Telephone 2 number
PhoneVoice3		Telephone 3 number
Phone1CarrierID		Mobile carrier for Telephone 1
Phone2CarrierID		Mobile carrier for Telephone 2
Phone3CarrierID		Mobile carrier for Telephone 3
TxtPhoneNumber		Mobile number for text messaging
ERceiptOptionID		0 - None 2 - Email receipt 8 - Text message receipt
ExcludeFromAlmostOverdueAutoRenew		Exclude patron from almost overdue/auto-renew reminder notices
ExcludeFromPatronRecExpiration		Exclude patron from patron record expiration reminder notices
ExcludeFromInactivePatron		Exclude from inactive patron reminder notices
ExpirationDate		Patron card expiration date
AddrCheckDate		Patron's address check date
PatronCode		Patron code assigned to patron
AddressID		Address ID of requested patron address change

Name	Required	Description/Notes
FreeTextLabel		Address type label (for example, Home or School) of requested patron address change
StreetOne		Street address of requested patron address change
State		State of requested patron address change
County		County of requested patron address change
PostalCode		Postal code of requested patron address change
Country		Country of requested patron address change
AddressTypeID		Address type of requested patron address change 1 - Generic 2 - Notices

HTTP Verb

PUT

Authorization required?

Yes

Example**`http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022`**

Header

Date: Wed, 09 Oct 2009 22:23:32 GMT
Authorization: PWS polarisdev:YtS8qFIPK/+1dy36LRKdhmSyFZQ=
Content-Type: text/xml
Content-Length: 341

Body

```
<PatronUpdateData>
  <LogonBranchID>1</LogonBranchID>
  <LogonUserID>1</LogonUserID>
  <LogonWorkstationID>1</LogonWorkstationID>
  <ReadingListFlag>1</ReadingListFlag>
  <EmailFormat>2</EmailFormat>
  <DeliveryOptionID>3</DeliveryOptionID>
  <EmailAddress>dude@hotmail.com</EmailAddress>
  <PhoneVoice1>315-555-3188</PhoneVoice1>
  <Password>12345</Password>
</PatronUpdateData>
```

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

```
<PatronUpdateResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage/></PatronUpdateResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

Error Messages

Code	Description
-501	Patron personal information change is not allowed
-3000	Invalid PatronID specified
-3518	Invalid Email address
-3519	Invalid DeliveryMethod Value (No Address for Patron)
-3520	Invalid Delivery Method Value (No Email Address for Patron)
-3521	Invalid DeliveryMethod Value (No PhoneVoice1 for Patron)
-3522	Invalid DeliveryMethod Value (No PhoneVoice2 for Patron)
-3523	Invalid DeliveryMethod Value (No PhoneVoice3 for Patron)
-3524	Invalid DeliveryMethod Value (No PhoneFax for Patron)
-3525	Invalid DeliveryMethod Value
-3526	Invalid EmailFormat Value
-3527	Invalid ReadingList Value
-3532	Invalid PhoneVoice1
-3533	Invalid Patron Password format
-3534	Invalid Password Length
-3535	Patron password change is not allowed
-3612	Invalid PatronCodeID
-3613	Invalid PhoneVoice2
-3614	Invalid PhoneVoice3
-3615	Invalid Alt Email Address
-3616	Invalid TXTPhoneNumber
-3617	Invalid PhoneCarrier
-3619	Invalid DeliveryMethod No Phone
-3620	Invalid Email Address for EReceipt

PatronUpdateUserName

This method allows a third party to add/update a patron's username.

URI

/public/{version}/{lang_ID}/{app_ID}/{org_ID}/patron/{patron_barcode}/username/{new_username}

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	The patron's username or barcode
new_username	Yes	The new username associated with the patron

HTTP Verb

PUT

Authorization required?

Yes (use patron's PIN in password/secret)

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI error code
ErrorMessage	Error or information message

Example

https://egraham-r2vm.gisinfosystems.com/Plato-R2PAPISer-vice/REST/public/v1/1033/100/1/patron/eric1234/username/egraham

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return - Success

```
<PatronUpdateResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
</PatronUpdateResult>
```

PAPI Error Codes Unique to This Method

PAPI Error Code	Description
-3606	The username must be at least 4 characters but not longer than 50 characters
-3607	The Username you entered is unavailable. Please try another Username.
-3608	All usernames must begin with a letter. Usernames can contain letters, numbers, and special characters. Spaces are not allowed, and special characters cannot be contiguous.
-3609	Username and barcode may not be the same.
-3610	The username you entered is identical to your previous username.

PatronValidate

Validate that a patron is part of the Polaris database.

URI

`/public/{version}/{lang-ID}/{app-ID}/{org-ID}/patron/{patron_barcode}`

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
Barcode	Patron's barcode
ValidPatron	Does patron exist in the Polaris database? false - No true - Yes
PatronID	Patron's record ID
PatronCodeID	Patron's patron code ID [Added in 4.0]

Name	Description/Notes
AssignedBranchID	ID of the branch to which the patron is assigned
AssignedBranchName	Name of the branch to which the patron is assigned
ExpirationDate	Patron's registration expiration date
OverridePasswordUsed	Was the staff override password used. Set only if nValidationTypeID = 3.

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022

Header

PolarisDate: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:9BRbA0NohcKuyuAm9qB6emyYBml=

Return- Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<PatronValidateResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError
rorCode>0</PAPIErrorCode>
<ErrorMessage/>
<Barcode>21756003332022</Barcode>
<ValidPatron>true</ValidPatron>
<PatronID>299377</PatronID>
<AssignedBranchID>90</AssignedBranchID>
<AssignedBranchName>Saratoga Springs Public Library</AssignedBranchName>
<ExpirationDate>2010-04-08T00:00:00</ExpirationDate>
</PatronValidateResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

RecordSetContentPut

This method adds or removes records from a record set. In Polaris 5.2, the method supports only the patron record set.

URI

`https://[host]/PAPIService/REST/protected/{ver}/{lang_id}/{product_id}/{org_id}/{AccessToken}/recordsets/{recordsetID}?userid={user_id}&wsid={workstation_id}&action=add`

`https://[host]/PAPIService/REST/protected/{ver}/{lang_id}/{product_id}/{org_id}/{AccessToken}/recordsets/{recordsetid}?userid={user_id}&wsid={workstation_id}&action=remove`

URI Parameters

Name	Required	Description/Notes
org_id	Yes	Organization ID
user_id	Yes	Staff user ID
wsid	Yes	Workstation ID
recordsetid	Yes	Patron record set ID
action	Yes	Options: add or remove

HTTP Verb

PUT

Authorization required?

Yes

Body

`<ModifyRecordSetContent>`
`<Records>1,2,3,4...</Records></ModifyRecordSetContent>`

Error Messages

Code	Description
-8000	Invalid PolarisUserID supplied
-8001	Polaris user is not permitted
-9000	Invalid WorkstationID supplied
-11000	Supplied recordSetID is not of type patron
-11001	RecordSetID does not exist

RecordSetRecordsGet

This method returns a list of record IDs in a specified record set. In Polaris 5.2, the method supports only the patron record set.

URI

/protected/{version}/{lang-ID}/{product-ID}/{org-ID}/recordsets/patron/{recordsetid}

URI Parameters

Name	Required	Description/Notes
org_id	Yes	Organization ID
user_id	Yes	Staff user ID
wsid	Yes	Workstation ID
recordsetid	Yes	Patron record set ID

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

List of patron records in the specified record set.

Name	Description/Notes
PatronID	Patron record ID

Header

Date: Fri, 21 Oct 2016 22:23:32 GMT

Authorization: PWS polarisdev:fB5eam199jSdF5lf3SLJ+czTHpM=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<RecordSetRecordsGetResult

xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<PAPIErrorCode>0</PAPIErrorCode>

<ErrorMessage i:nil="true" />

<RecordSetRecordsGetRows>

<RecordSetRecordsGetRow>

<PatronID>33343</PatronID>

</RecordSetRecordsGetRow>

<RecordSetRecordsGetRow>

<PatronID>33959</PatronID>

</RecordSetRecordsGetRow>

<RecordSetRecordsGetRow>

<PatronID>73953</PatronID>

</RecordSetRecordsGetRow>

<RecordSetRecordsGetRow>

<PatronID>132277</PatronID>

</RecordSetRecordsGetRow>

</RecordSetRecordsGetRows>

</RecordSetRecordsGetResult>

Error Messages

Code	Description
-8000	Invalid PolarisUserID supplied
-8001	Polaris user is not permitted
-9000	Invalid WorkstationID supplied
-11000	Supplied recordSetID is not of type patron
-11001	RecordSetID does not exist

RemoteStorageItemsGet

This protected method returns a list of items that match the criteria specified by the user. The data returned includes the detailed item information designed to update remote storage repositories for new, updated, and deleted items. The list may be paged using the **startitemrecordid** parameter.

Important:

A call to `AuthenticateStaffUser` is required before calling any protected method.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/cataloging/remotestorage/items?branch={branch_id}&startdate={start_date}&enddate={end_date}&maxitems={max_items}&listtype={list_type}`

URI Parameters

Name	Required	Description/Notes
branch	Yes	The branch ID for the request list
startdate	Yes	The starting date for the delta
enddate	Yes	The ending date for the delta
maxitems	Yes	The number of items returned for the call
listtype	Yes	The list type: 1= newly created items 2= items that were modified 3= items that were deleted
startitemrecordid	No	The item record ID after which to start the list

Request Body XML

N/A

XML Body Elements

N/A

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code: Negative values represent errors and are defined elsewhere. Note: On successful completion, the PAPI error code is populated with a positive integer representing the number of rows returned.
ErrorMessage	Error or information message
RecordCount	The total number of records found that met the search criteria
RowCount	The number of items returned in the current result set
RemoteStorageItemsGetRows	A list of item data
RemoteStorageItemsGetRow	Container for the data row
ItemRecordID	The Polaris item record ID
BibliographicRecordID	The bibliographic record ID with which the item is associated
ItemBarcode	The barcode of the item to which the request is bound (if any)
BrowseTitle	The title of the work
BrowseAuthor	The primary author of the work (if any)
MaterialTypeID	The item's material type ID
MaterialType	The item's material type description

Name	Description/Notes
CollectionID	The item's collection ID (if any)
Collection	The item's collection description (if any)
ShelfLocationID	The item's shelf location ID (if any)
ShelfLocation	The item's shelf location description (if any)
CallNumber	The item's call number (if any)
CopyNumber	The item's copy number (if any)
VolumeNumber	The item's volume number (if any)

Example

<https://egraham-r2vm.gisinfosystems.com/Plato-R2PAPIServe/REST/protected/v1/1033/100/1/DEsGANrOPNYpnKyaYKJ6fQtg0fKslonE/cataloging/remotestorage/items?branch=92&startdate=8-1-2013&enddate=8-24-2013&max-items=100&listtype=1>

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxiU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

N/A

Return

```

<RecordCount>1</RecordCount>
<RowCount>1</RowCount>
<RemoteStorageItemsGetRows>
  <RemoteStorageItemsGetRow>
    <ItemRecordID>9942528</ItemRecordID>
    <BibliographicRecordID>8577</BibliographicRecordID>
    <Barcode>0003658451</Barcode>
    <BrowseTitle>Salted lemons</BrowseTitle>
  </RemoteStorageItemsGetRow>
</RemoteStorageItemsGetRows>

```

```
<BrowseAuthor>Smith, Doris Buchanan.</BrowseAuthor>
<MaterialTypeID>1</MaterialTypeID>
<MaterialType>Book</MaterialType>
<CollectionID>87</CollectionID>
<Collection>Reference</Collection>
<ShelfLocationID/>
<ShelfLocation/>
<CallNumber>R</CallNumber>
<CopyNumber/>
<VolumeNumber/>
</RemoteStorageItemsGetRow>
</RemoteStorageItemsGetRows>
</RemoteStorageItemsGetResult>
```

SAMobilePhoneCarriersGetResult

This method returns content from the SA_MobilePhoneCarriers table for a specified organization, which specifies the mobile phone carrier selections available for patron record phone fields.

URI

/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access-token}/sysadmin/mobilephonecarriers

URI Parameters

Name	Required	Description/Notes
org_id	Yes	Organization ID

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

One or more hold requests placed by the patron. The list is sorted in ascending order by activation date.

Name	Description/Notes
CarrierID	ID of mobile phone carrier
CarrierName	Name of mobile phone carrier
email2SMSemailAddress	SMS address

Name	Description/Notes
NumberOfDigits	Specifies number of digits in phone number; always 10
Display	Display flag

Example

https://qa-saturn.polarislibrary.com/PAPIService/REST/protected/v1/1033/100/3/OwrTPOInpRtHYILu4vjKj2cmoGLZQ5zh/sysadmin/mobilephonecarriers

Header

Date: Fri, 21 Oct 2016 22:23:32 GMT

Authorization: PWS polarisdev:fB5eam199jSdF5lf3SLJ+czTHpM=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<SAMobilePhoneCarriersGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<PAPIErrorCode>26</PAPIErrorCode>

<ErrorMessage></ErrorMessage>

<SAMobilePhoneCarriersGetRows>

<SAMobilePhoneCarriersGetRow>

<CarrierID>1</CarrierID>

<CarrierName>AT&T</CarrierName>

<Email2SMSEmailAddress>@txt.att.net</Email2SMSEmailAddress>

<NumberOfDigits>10</NumberOfDigits>

<Display>>true</Display>

</SAMobilePhoneCarriersGetRow>

<SAMobilePhoneCarriersGetRow>

<CarrierID>2</CarrierID>

<CarrierName>Bell Canada</CarrierName>

```
<Email2SMSE-  
mailAddress>@txt.bellmobility.ca</Email2SMSEmailAddress>  
<NumberOfDigits>10</NumberOfDigits>  
<Display>>false</Display>  
</SAMobilePhoneCarriersGetRow>  
</SAMobilePhoneCarriersGetRows>  
</SAMobilePhoneCarriersGetResult>
```

SortOptionsGet

Returns list of valid sort options.

URI

/public/{version}/{lang-ID}/{app-ID}/{org-ID}/sortoptions

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

XML Elements Returned

Name	Description/Notes
Code	Sort code
Description	Description used to display to user
Options	Sort option used to build CCL

Example

http://localhost/PAPIService/REST/public/v1/1033/100/74/sortoptions

Header

PolarisDate: Wed, 09 Oct 2009 22:23:32 GMT

Authorization: PWS polarisdev:8jZHwYsSXKAqlxZShuqcE+8VUBE=

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<SortOptionsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>16</PAPIErrorCode>
```

```

<ErrorMessage/>
<SortOptionsRows>
<SortOptionsRow>
<Code>RELEVANCE</Code>
<Description>Relevance</Description>
<Options>RELEVANCE</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>MP</Code>
<Description>Most popular</Description>
<Options>MP DESC</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>AU</Code>
<Description>Author</Description>
<Options>AU</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>TI</Code>
<Description>Title</Description>
<Options>TI</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>CALL</Code>
<Description>Call Number</Description>
<Options>CALL</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>PD</Code>
<Description>Publication
date</Description>
<Options>PD DESC</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>AU_TI</Code>
<Description>Author,
then Title</Description>
<Options>AU, TI</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>AU_PD</Code>
<Description>Author,
then Publication date</Description>
<Options>AU, PD DESC</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>TI_AU</Code>
<Description>Title, then
Author</Description>
<Options>TI, AU</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>TI_PD</Code>
<Description>Title, then
Publication date</Description>
<Options>TI, PD DESC</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>TI_TOM</Code>
<Description>Title,
then Format</Description>
<Options>TI, TOM</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>PD_AU</Code>
<Description>Publication date, then Author</Description>
<Options>PD DESC,
AU</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>PD_TI</Code>
<Description>Publication date, then Title</Description>
<Options>PD DESC, TI</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>CALL_AU</Code>
<Description>Call
number, then Author</Description>
<Options>CALL, AU</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>CALL_TI</Code>
<Description>Call
number, then Title</Description>
<Options>CALL, TI</Options>
</SortOptionsRow>
<SortOptionsRow>
<Code>CALL_PD</Code>
<Description>Call
number, then Publication Date</Description>
<Options>CALL, PD DESC</Options>
</SortOptionsRow>
</SortOptionsRows>
</SortOptionsGetResult>

```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<SortOptionsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError  
Code>-1</PAPIErrorCode><ErrorMessage>Invalid type spe-  
cified</ErrorMessage><SortOptionsRows i:nil="true"/></SortOptionsGetResult>
```

UpdatePickupBranchID

This method updates the pickup branch for a hold request when the patron requests the change. The hold request status must be one that is allowed for change requests according to the system-level Polaris Administration setting for the Request parameter **Holds Options - Pickup**. Possible allowed statuses include Active, Held, Inactive, Located, Pending, and Shipped.

URI

```
/public/{version}/{lang-ID}/{AppID}/{OrgID}/patron/{PatronBarcode}/holdrequests/  
{RequestID}/pickupbranch?userid={user_id}&wsid={workstation_id}&pickupbranchid=  
{pickupbranch_id}
```

HTTP Verb

PUT

Authorization required?

Yes

Example

```
https://qa-sat-  
urn.polarislibrary.com/PAPIService/REST/public/v1/1033/100/1/patron/12345678/  
holdrequests/123/pickupbranch?userid=1&wsid=1&pickupbranchid=3
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<?xml version="1.0" encoding="UTF-8"?>  
<PAPIResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage />  
</PAPIResult>
```

Error Message

An invalid request status ID returns the error message **Cannot change pickup branch for request in statusID** (-4016). In addition to any request statuses not allowed due to system

administration settings, invalid status IDs include the following:

Invalid StatusID	Description
7	Not supplied
8	Unclaimed
9	Expired
16	Cancelled
17	Out to patron

UpdateRequestStatus

This protected method will update the request status.

Important:

A call to `AuthenticateStaffUser` is required before calling any protected method. Patron blocks are de-duplicated on creation; duplicate blocks are not allowed.

PAPI Error Codes Unique to This Method

PAPI Error Codes	Description
-4003	Invalid request ID specified
-4407	Request status invalid for this process
-4408	Invalid request status change requested
-4409	Invalid hold user not supplied reason
-4410	This is the only item available for the hold
-4411	No other items are available to fill the hold

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}{access_token}/circulation/requests/{request_id}/status?action={status_action}`

URI Parameters

Name	Required	Values	Description/Notes
request_id	Yes	int	The request being acted upon
action	Yes	string	Valid actions include: deny = Deny request

Name	Required	Values	Description/Notes
			locate = Sets the request status to located. return = Sets the request status to pending if the request has been set to located in error. askmelater = Submits the hold request to the askmelater process.
itemid	Required in some circumstances	int	The ItemRecordID of the item bound to the request. The value is required for the following actions: locate, return, askmelater
denyreason	Required in some circumstances	int	The ReasonID from the table HoldUserNotSuppliedReasons. This value is required for the "deny" action.

HTTP Verb

PUT

Authorization required?

Yes

Protected method

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI error code
ErrorMessage	Error or informational message

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

N/A

Return

```
< PAPIResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<PAPIErrorCode>0</PAPIErrorCode> <ErrorMessage/></ PAPIResult>
```

Locate Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bNFeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=locate&itemid=4527>

Return Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bNFeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=return&itemid=4527>

Ask Me Later Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bNFeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=askmelater&itemid=4527>

Deny Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bNFeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=deny&denyreason=4527>

Synch Methods for 3rd Party Discovery Interfaces

These protected methods have been developed for use in synchronizing third-party discovery interfaces with the Polaris database.

See Also:

- Patron_GetBarcodeFromID
- Synch_AuthsByIDGet
- Synch_BibsByIDGet
- Synch_BibReplacementIDGet
- Synch_GetAuthIDList
- Synch_GetBibIDList
- Synch_GetDeletedAuths
- Synch_GetDeletedBibs
- Synch_GetDeletedItems
- Synch_GetDeletedPatrons
- Synch_GetItemIDList
- Synch_GetMaxAuthID
- Synch_GetMaxBibID
- Synch_GetMaxItemID
- Synch_GetUpdatedAuths
- Synch_GetUpdatedBibs
- Synch_GetUpdatedItems
- Synch_ItemsByBibIDGet
- Synch_ItemByIDGet

Patron_GetBarcodeFromID

This method derives a patron barcode from a patron ID. The return value includes both the patron ID and barcode.

Important:

The barcode node of the return XML document may be empty. This may indicate one of the following conditions:

The patron record has been deleted.

The patron ID does not exist in the Polaris Database.

The patron does not have a barcode assigned.

This method accepts only one patron ID at a time.

This method returns a generic GetBarcodeAndPatronIDResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/patron/barcode?patronid={patronid}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values:

Name	Required	Description/Notes
		1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
patronid	<int>	Yes	ID of patron

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BarcodeAndPatronIDRows	List of Patron ID's and barcodes
BarcodeAndPatronIDRow	Container for data
PatronID	The PatronID passed in by the user
Barcode	The patrons barcode (if any)

Example

https://[HOSTNAME]/PAPISer-vice/REST/-protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/patron/barcode?patronid=15

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<GetBarcodeAndPatronIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <BarcodeAndPatronIDRows>
    <BarcodeAndPatronIDRow>
      <PatronID>15</PatronID>
      <Barcode>1000200000395</Barcode>
    </BarcodeAndPatronIDRow>
  </BarcodeAndPatronIDRows>
</GetBarcodeAndPatronIDResult>
```

Synch_AuthsByIDGet

This method returns a list of authority record IDs and a MARC XML representation of the authority record(s) requested by the user. The specific authorities returned by this method may be specified using a comma delimited list of authority record IDs. Documentation for the MARC XML schema may be found at the Library of Congress:

<http://www.loc.gov/standards/marcxml/>

Important:

No more than 50 authority records may be requested at a time.

Authority record IDs must be numeric.

If an authority record requested does not exist, a row will not be returned.

A call to `AuthenticateStaffUser` is required before calling any protected methods.

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/-
synch/auths/MARCxml?authids={AuthIDList}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese

Name	Required	Description/Notes
		3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
AuthIDList	<int>, <int>, <int>	Yes	Authority record IDs

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
GetAuthsByIDRows	List of authority record IDs and MARCXML records

Name	Description/Notes
GetAuthsByIDRow	Container for data
AuthorityRecordID	Authority record ID of the record
AuthorityRecordXML	An HTML Encoded representation of MARCXML data. Important: The character coding scheme is Unicode.

Example

https://[HOSTNAME]/PAPIServe/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/auths/MARCXML?authids=1,5,7,9,11

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<GetAuthsByIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <GetAuthsByIDRows>
    <GetAuthsByIDRow>
      <AuthorityRecordID>1</ AuthorityRecordID >
      <AuthorityRecordXML>
        &lt;marc:collection xsi:schemaLocation="http://www.loc.gov/MARC21/slim http://www.-
        loc.gov/standards/marcxml/schema/MARC21slim.xsd" xmlns:x-
        si="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:-
        marc="http://www.loc.gov/MARC21/slim"&gt;&lt;marc:record&gt;&lt;marc:leader&gt;||||nz
        a22||||n 4500&lt;marc:leader&gt;&lt;marc:controlfield tag-
        g="005"&gt;20120404203605.0&lt;/marc:controlfield&gt;&lt;marc:controlfield tag-
        g="008"&gt;000104n| acannaabn |n aaa &lt;/marc:controlfield&gt;&lt;marc:datafield
        tag="010" ind1=" " ind2=" " &gt;&lt;marc:subfield code="a"&gt;n 00000050 &lt;/-
        marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="040" ind1=" " ind2="
        " &gt;&lt;marc:subfield code="a"&gt;DLC&lt;/marc:subfield&gt;&lt;marc:subfield code-
        e="b"&gt;eng&lt;/marc:subfield&gt;&lt;marc:subfield
```

```
code="c"&gt;DLC&lt;/marc:subfield&gt;&lt;/marc:datafield&gt;&lt;/marc:datafield tag="100"
ind1="1" ind2=" "&gt;&lt;/marc:subfield code="a"&gt;Pember, Ann,&lt;/-
marc:subfield&gt;&lt;/marc:subfield code="d"&gt;1946-&lt;/-
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;/marc:datafield tag="670" ind1=" " ind2="
"&gt;&lt;/marc:subfield code="a"&gt;Pember, Ann. Painting close-focus flowers in water-
color, 2000:&lt;/marc:subfield&gt;&lt;/marc:subfield code="b"&gt;CIP t.p. (Ann Pember) data
sheet (b. 04-26-46)&lt;/-
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;/marc:record&gt;&lt;/marc:collection&gt;
```

```
; </AuthorityRecordXML>
```

```
</GetAuthsByIDRow>
```

```
</GetAuthsByIDRows>
```

```
</GetAuthsByIDResult>
```

Synch_BibsByIDGet

This method returns a list of bibliographic record IDs and a MARC XML representation of the bibliographic record(s) requested by the user. The specific bibliographic records returned by this method may be specified using a comma delimited list of bibliographic record IDs. Documentation for the MARC XML schema may be found at the Library of Congress:

<http://www.loc.gov/standards/marcxml/>

Important

No more than 50 bibliographic records may be requested at a time.

Bibliographic record IDs must be numeric.

If a bibliographic record requested does not exist, a row will not be returned.

A call to `AuthenticateStaffUser` is required before calling any protected methods.

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/-
synch/bibs/MARCxml?bibids={BibIDList}`

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
BibIDList	<int>, <int>, <int>	Yes	Bibliographic record IDs

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
GetBibsByIDRows	List of bibliographic record IDs and MARCXML records
GetBibsByIDRow	Container for data
BibliographicRecordID	Bib record ID of the record
BibliographicRecordXML	An HTML Encoded representation of MARCXML data. Important: The character coding scheme is Unicode.
IsDisplayInPAC	Boolean true or false. Indicates if the library wishes the record to display in PAC
CreationDate	The date and time that the record was created in the system.
FirstAvailableDate	The first available date for the bib is the first day the first item linked to the bib becomes available for circulation. This data can be NULL.
ModificationDate	The date and time of last record modification. This data may be NULL.

Example

https://[HOSTNAME]/PAPIServe/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/synch/bibs/MARCXML?bibids=1,5,7,9,11

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<GetBibsByIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <GetBibsByIDRows>
    <GetBibsByIDRow>
      < BibliographicRecordID>1</BibliographicRecordID>
```

```

<BibliographicRecordXML>
<marc:collection xsi:schemaLocation="http://www.loc.gov/MARC21/slim http://www.-
loc.gov/standards/marcxml/schema/MARC21slim.xsd" xmlns:x-
si="http://www.w3.org/2001/XMLSchema-instance"
xmlns:-
marc="http://www.loc.gov/MARC21/slim"><marc:record><marc:leader>||||cam
a22|||| a 4500<marc:leader><marc:controlfield tag-
g="001">16<marc:controlfield><marc:controlfield tag-
g="005">20091119153925.0<marc:controlfield><marc:controlfield
tag="008">770331s1977 nyua j 000 1 eng u<marc:controlfield><marc:datafield tag-
g="010" ind1=" " ind2=" " ><marc:subfield code="a"> 77005747 <marc:subfield><marc:subfield
code="z">02894080<marc:subfield><marc:datafield><marc:datafield tag-
g="020" ind1=" " ind2=" " ><marc:subfield code-
e="a">0525262156<marc:subfield><marc:datafield><marc:datafield
tag="020" ind1="0" ind2="0"><marc:subfield code="a">0525444491 :<marc:subfield><marc:subfield code-
e="c">$13.95<marc:subfield><marc:datafield><marc:datafield tag="035"
ind1=" " ind2=" " ><marc:subfield code="a">AAA-0183<marc:subfield><marc:datafield><marc:datafield tag="050" ind1-
1="0"ind2="0"><marc:subfield
code="a">PZ7.C36636<marc:subfield><marc:subfield code-
e="b">Bar<marc:subfield><marc:datafield><marc:datafield tag="082"
ind1=" " ind2=" " ><marc:subfield code="a">[E]<marc:subfield><marc:datafield><marc:datafield tag="092" ind1=" " ind2="
"><marc:subfield code="a">JP Fict<marc:subfield><marc:subfield code-
e="b">Cha<marc:subfield><marc:datafield><marc:datafield tag="099"
ind1=" " ind2=" " ><marc:subfield code="a">jP Fict<marc:subfield><marc:subfield code-
e="b">Cha<marc:subfield><marc:datafield><marc:datafield tag="100"
ind1="1" ind2=" " ><marc:subfield code="a">Chapman, Carol.<marc:subfield><marc:datafield><marc:datafield tag="245" ind1="1" ind2-
2="0"><marc:subfield code="a">Barney Bipple's magic dandelions
/<marc:subfield><marc:subfield code="c">by Carol Chapman ; pictures by
Steven Kellogg.<marc:subfield><marc:datafield><marc:datafield tag="260"
ind1=" " ind2=" " ><marc:subfield code="a">New York :<marc:subfield><marc:subfield code-
e="b">Dutton,<marc:subfield><marc:subfield
code="c">c1977.<marc:subfield><marc:datafield><marc:datafield tag="300"
ind1="0" ind2="0"><marc:subfield code="a">unp. :<marc:subfield><marc:subfield code="b">col. ill. :<marc:subfield><marc:subfield code="c">24
cm.<marc:subfield><marc:datafield><marc:datafield tag="650" ind1=" " ind2-
2="0"><marc:subfield code="a">Wishes<marc:subfield><marc:subfield
code="v">Fiction.<marc:subfield><marc:datafield><marc:datafield tag-
g="700" ind1="1" ind2=" " ><marc:subfield code="a">Kellogg, Steven.<marc:subfield><marc:datafield><marc:datafield tag="999" ind1=" " ind2="
"><marc:subfield code="b">JP Fict Cha<marc:subfield><marc:subfield
code="c">0<marc:subfield><marc:subfield code-
e="g">0<marc:subfield><marc:subfield

```

```
code="h"&gt;0&lt;/marc:subfield&gt;&lt;/marc:subfield code-  
e="i"&gt;2&lt;/marc:subfield&gt;&lt;/marc:subfield code-  
e="j"&gt;15&lt;/marc:subfield&gt;&lt;/marc:subfield  
code="k"&gt;0&lt;/marc:subfield&gt;&lt;/marc:subfield code="x"&gt;JP Fict Cha&lt;/-  
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;/marc:record&gt;&lt;/marc:collection&gt  
  
</BibliographicRecordXML>  
  
<IsDisplayInPAC>true</IsDisplayInPAC>  
  
<CreationDate>2009-07-28T11:57:09.347</CreationDate>  
  
<FirstAvailableDate>2009-07-28T11:57:09.347</FirstAvailableDate>  
  
<ModificationDate>2009-07-28T11:57:09.347</ModificationDate>  
  
</GetBibsByIDRow>  
  
</GetBibsByIDRows>  
  
</GetBibsByIDResult>
```

Synch_BibReplacementIDGet

This method returns a list of bibliographic record ID replacements based on a specified start date. It will return up to 60 days of change data. If internal Polaris bibliographic record IDs are stored outside of the Polaris database, this method will help keep external data synchronized with the Polaris database when bibliographic record IDs change.

Bibliographic record IDs may be replaced in several circumstances. For example, a brief MARC record may be created for a title that does not exist in the catalog. Later, a more descriptive record may be imported. The old record is overlaid with the new record and the underlying internal bibliographic record ID is changed. As another example, when new items are received for an existing bibliographic record, the process may overlay the existing bibliographic record and change the underlying bibliographic record ID if new MARC data is supplied.

Important:

This method builds a data set based on Polaris transactions data. The transactions **Bibliographic record deleted**, **Bibliographic record created**, and **Bibliographic Record marked for deletion** must be logged. In Polaris Administration, open the system-level database table **Transaction Logging** to verify that these transactions are set to be logged.

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/bibs/replacementids?startdate={startdate}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level

Name	Required	Description/Notes
		organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Query String Parameters

Name	Value	Required	Description/Notes
startdate	YYYY-mm-dd	Yes	Start date of bibliographic record ID replacements

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BibReplacementIDRows	List of replacement ID rows
BibReplacementIDRow	Container for replacement data
OriginalBibRecordID	Bib record ID that has been replaced
NewBibliographicRecordID	Bib record ID that replaced the original ID
ReplacementDate	Date the overlay occurred

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/bibs/
replacementids?startdate=2012-02-01**

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<BibReplacementIDGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <BibReplacementIDRows>
    <BibReplacementIDRow>
      <OriginalBibRecordID>20790</OriginalBibRecordID>
      <NewBibliographicRecordID>793031</NewBibliographicRecordID>
      <ReplacementDate>2012-02-13T12:10:10</ReplacementDate>
    </BibReplacementIDRow>
    <BibReplacementIDRow>
      <OriginalBibRecordID>601531</OriginalBibRecordID>
      <NewBibliographicRecordID>793032</NewBibliographicRecordID>
```

```
<ReplacementDate>2012-02-13T12:14:10</ReplacementDate>
</BibReplacementIDRow>
<BibReplacementIDRow>
  <OriginalBibRecordID>793031</OriginalBibRecordID>
  <NewBibliographicRecordID>793032</NewBibliographicRecordID>
  <ReplacementDate>2012-02-13T12:14:11</ReplacementDate>
</BibReplacementIDRow>
</BibReplacementIDRows>
</BibReplacementIDGetResult>
```

Synch_GetAuthIDList

This method gets a list of authority record IDs from a specified record ID. An optional parameter is available to allow the user to specify the number of record IDs to retrieve. A maximum 1,000 record IDs are returned for each call to this method.

Important:

This method provides information for item records that have a “final” status and are set to display in PAC.

The items must be attached to a bibliographic record that has a status of final and displays in PAC.

An optional parameter “nrecs” may be specified. The parameter allows the user to return a particular number of records.

This method returns a generic AuthIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI/

/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/auths/idlist?startid={startid}&nrecs={numberof records}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean

Name	Required	Description/Notes
		1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
startid	<int>	Yes	Starting record ID
numberofrecords	<int>	No	Number of record IDs to retrieve

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code

Name	Description/Notes
ErrorMessage	Error or information message
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The authority Record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/auths/idlist?
startid=60000**

OR

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/auths/idlist?
startid=60000&nrecs=150**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<AuthIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <AuthIDListRows>  
    <AuthIDListRow>  
      <AuthorityRecordID>807343</AuthorityRecordID>  
    </AuthIDListRow>  
  </AuthIDListRows>  
</AuthIDListGetResult>
```

Synch_GetBibIDList

This method gets a list of bibliographic record IDs from a specified record ID. An optional parameter is available to allow the user to specify the number of record IDs to retrieve. A maximum 1,000 record IDs are returned for each call to this method.

Important:

This method provides information for bibliographic records that have a “final” status. An optional parameter “nrecs” may be specified. The parameter allows the user to return a particular number of records.

This method returns a generic BibIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/auths/idlist?startid={startid}&nrecs={numberof records}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish

Name	Required	Description/Notes
		3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
startid	<int>	Yes	Starting record ID
numberofrecords	<int>	No	Number of record IDs to retrieve

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BibIDListRows	List of bibliographic record IDs

Name	Description/Notes
BibIDListRow	Container for data
BibliographicRecordID	The Bibliographic Record ID

Example

`https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/bibs/idlist?
startid=60000`

OR

`https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/bibs/idlist?
startid=60000&nrecs=150`

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<BibIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BibIDListRows>  
    <BibIDListRow>  
      <BibliographicRecordID>600000</BibliographicRecordID>  
    </BibIDListRow>  
  </BibIDListRows>  
</BibIDListGetResult>
```

Synch_GetDeletedAuths

This method returns a list of authority record IDs for records that have been deleted since a specified date and time.

Important:

This method provides information for authority records that have been deleted in the Polaris ILS. This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed. This method returns a generic AuthIDListGetResult XML structure (see below). A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/auths/deleted?deletedate={deletedate}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
deletedate	MM/DD/YYYY HH:MM:SS	Yes	Start date and time (records that have been deleted since this date/time)

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The Authority Record ID

Example**https://[HOSTNAME]/PAPISer-**

vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/auths/deleted?
deletedate=12/2/2011 13:00:00

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<AuthIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <AuthIDListRows>  
    <AuthIDListRow>  
      <AuthorityRecordID>807343</AuthorityRecordID>  
    </AuthIDListRow>  
  </AuthIDListRows>  
</AuthIDListGetResult>
```

Synch_GetDeletedBibs

This method returns a list of bibliographic record IDs for records that have been deleted since a specified date and time.

Important:

- This method provides a list of bibliographic records that have been deleted in the Polaris ILS.
- This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.
- This method returns a generic BibIDListGetResult XML structure (see below).
- A call to AuthenticateStaffUser is required before calling any protected methods.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/bibs/deleted?deletedate={deletedate}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean

Name	Required	Description/Notes
		1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
deletedate	MM/DD/YYYY HH:MM:SS	Yes	Start date and time (records that have been deleted since this date/time)

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BibIDListRows	List of Bibliographic record IDs
BibIDListRow	Container for data
BibliographicRecordID	The Bibliographic Record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/bibs/deleted?
deletedate=12/2/2011 13:00:00**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<BibIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BibIDListRows>  
    <BibIDListRow>  
      <BibliographicRecordID>803851</BibliographicRecordID>  
    </BibIDListRow>  
  </BibIDListRows>  
</BibIDListGetResult>
```

Synch_GetDeletedItems

This method returns a list of item record IDs for records that have been deleted since a specified date and time.

Important:

This method provides a list of item records that have been deleted in the Polaris ILS. This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed. This method returns a generic ItemIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/items/deleted?deletedate={deletedate}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
deletedate	MM/DD/YYYY HH:MM:SS	Yes	Start date and time (records that have been deleted since this date/time)

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemIDListRows	List of Item record IDs
ItemIDListRow	Container for data
ItemRecordID	The Item Record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/items/deleted?
deletedate=12/2/2011 13:00:00**

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT

Authorization: PWS polarisdev:/uessDsxbU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return

```
<ItemIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
  <ItemIDListRows>
    <ItemIDListRow>
      <ItemRecordID>9367071</ItemRecordID>
    </ItemIDListRow>
  </ItemIDListRows>
</ItemIDListGetResult>
```

Synch_GetDeletedPatrons

This method returns a list of patron records that have been deleted since a specified date and time. The return value includes both the patron ID and barcode.

Important:

This method provides a list of patron records that have been deleted in the Polaris ILS. It has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.

It returns a generic GetBarcodeAndPatronIDResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected method.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/patrons/deleted?deleteddate={deleteddate}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
deletedate	MM/DD/YYYY HH:MM:SS	Yes	Start date and time (records that have been deleted since this date/time)

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
PatronAndBarcodeIDRows	List of patron record IDs and barcodes
PatronAndBarcodeIDRow	Container for data
PatronID	The PatronID passed in by the user
Barcode	The patron's barcode (if any)

Example

`https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/patrons/deleted?
deletedate=12/2/2011 13:00:00`

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<GetBarcodeAndPatronIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BarcodeAndPatronIDRows>  
    <BarcodeAndPatronIDRow>  
      <PatronID>15</PatronID>  
      <Barcode>1000200000395</Barcode>  
    </BarcodeAndPatronIDRow>  
  </BarcodeAndPatronIDRows>  
</GetBarcodeAndPatronIDResult>
```

Synch_GetItemIDList

This method gets a list of item record IDs from a specified record ID. An optional parameter is available to allow the user to specify the number of record IDs to retrieve. A maximum 1,000 record IDs are returned for each call to this method.

Important:

This method provides information for item records that have a “final” status and are attached to a bibliographic record that has a status of final.

An optional parameter “nrecs” may be specified. The parameter allows the user to return a particular number of records.

This method returns a generic ItemIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/items/ idlist?startid={startid}&nrecs={numberofrecords}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese

Name	Required	Description/Notes
		3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
startid	<int>	Yes	Starting record ID
numberofrecords	<int>	No	Number of record IDs to retrieve

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message

Name	Description/Notes
ItemIDListRows	List of item record IDs
ItemIDListRow	Container for data
ItemRecordID	The item record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/items/idlist?
startid=60000**

OR

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/items/idlist?
startid=60000&nrecs=150**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<ItemIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
<PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>  
<ItemIDListRows>  
<ItemIDListRow>  
<ItemRecordID>9367071</ItemRecordID>  
</ItemIDListRow>  
</ItemIDListRows>  
</ItemIDListGetResult>
```

Synch_GetMaxAuthID

This method returns the maximum authority record ID.

Important:

This method provides information for item records that have a “final” status. It returns a generic AuthIDListGetResult XML structure (see below). A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/auths/maxid

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The authority record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/items/maxid**

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<AuthIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
< PAPIErrorCode>0</PAPIErrorCode>  
<ErrorMessage/>  
<AuthIDListRows>  
<AuthIDListRow>  
<AuthorityRecordID>807343</AuthorityRecordID>
```

```
< /AuthIDListRow>  
</AuthIDListRows>  
</AuthIDListGetResult>
```

Synch_GetMaxBibID

This method returns the maximum bibliographic record ID.

Important:

This method provides information for bibliographic records that have a “final” status. It returns a generic BibIDListGetResult XML structure (see below). A call to AuthenticateStaffUser is required before calling any protected method.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/bibs/maxid

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BibIDListRows	List of bibliographic record IDs
BibIDListRow	Container for data
BibliographicRecordID	The bibliographic record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/bibs/maxid**

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<BibIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BibIDListRows>  
    <BibIDListRow>  
      <BibliographicRecordID> 852993 </BibliographicRecordID>
```

</BibIDListRow>

</BibIDListRows>

</BibIDListGetResult>

Synch_GetMaxItemID

This method returns the maximum item record ID.

Important:

This method provides information for item records that have a “final” status and are attached to a bibliographic record that has a status of final.

It returns a generic ItemIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected method.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/items/maxid`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemIDListRows	List of item record IDs
ItemIDListRow	Container for data
ItemRecordID	The item record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/items/maxid**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<ItemIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
<PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>  
<ItemIDListRows>  
<ItemIDListRow>
```

```
<ItemRecordID>9367071</ItemRecordID>  
</ItemIDListRow>  
</ItemIDListRows>  
</ItemIDListGetResult>
```

Synch_GetSubscriptionsByID

This method returns a list of serial bibliographic record IDs and an XML representation of the serials subscription information associated with the bibliographic record(s) requested by the user. The information returned by this method may be specified using a comma delimited list of bibliographic record IDs. Data returned may include SHR (Serial Holdings Record) Copy information, Compressed Holdings information, SHR Copy shared public notes, Publication Pattern information, textual holdings information, and Issue/Linked Item information. A third-party discovery interface may use this method to return data when a user clicks a Subscription Information button in the discovery interface.

Important:

No more than 50 bibliographic records may be requested at a time.

Bibliographic record IDs must be numeric.

If a bibliographic record requested does not exist, a row will not be returned.

If serials subscription information does not exist for the record, serials information will not be returned by this method.

A call to AuthenticateStaffUser (see AuthenticateStaffUser) is required before calling any protected methods.

URI

**/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/subscriptions/SubscriptionXML?bibids={BibIDList}**

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Values

{ BibIDList }:

<int>,<int>,<int>

Request Body XML

n/a

XML Body Elements

n/a

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
GetSubscriptionsByIDRows	List of bibliographic record IDs and Subscription XML records
GetSubscriptionsByIDRow	Container for data
BibliographicRecordID	Bib record ID of the record
SubscriptionXMLRecord	An HTML Encoded representation subscription XML Data. Important: The character coding scheme is Unicode.

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/ sub-
scriptions/SubscriptionXML?bibids=1,5,7,9,11**

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Body

n/a

Return

```
<GetSubscriptionsByIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <GetSubscriptionsByIDRows>  
    <GetSubscriptionsByIDRow>
```

```
<BibliographicRecordID>597046</BibliographicRecordID>

<SubscriptionXMLRecord>
<Record>
<BibliographicRecordID>597046</BibliographicRecordID>
<CopyRecords>
<CopyRecord>
<CopyID>33</CopyID>
<CollectionID>75</CollectionID>
<CollectionName>Magazines</CollectionName>
<CompletenessCode>Incomplete</CompletenessCode>
<OrganizationID>101</OrganizationID>
<OrganizationName>Southern Adirondack Library System</OrganizationName>
<CopyNumber>1</CopyNumber>
<DisplayInPAC>1</DisplayInPAC>
<RetentionDescription>Other general retention policy</RetentionDescription>
<HoldingsStatement/ >
<HoldingsNote />
<RetentionNote />
<Notes>
<Note>
<Ordinal>1</Ordinal>
<PublicNote>This is a serials holdings record publicnote</PublicNote>
</Note>
<Note>
<Ordinal>2</Ordinal>
<PublicNote>This is a second Serials holdings record public note</PublicNote>
</Note>
</Notes>
<PubPatterns>
<PubPattern>
<PubPatternID>967</PubPatternID>
<CategoryID>1</CategoryID>
<Category>Basic Bibliographic Unit</Category>
<EncodLevelH />
<TextualHoldings>Textual Holdings note</TextualHoldings>
<Issues>
<Issue>
<IssueID>399</IssueID>
<IssuePublicNote>Issue Public Note</IssuePublicNote>
<TitleOfSupIndex />
<IssueStatusId>1</IssueStatusId>
<IssueStatus>Received</IssueStatus>
<Retained>1</Retained>
<ItemRecordID>0</ItemRecordID>
<Barcode />
<AssignedBranchID>;0</AssignedBranchID>
<AssignedBranch />
<AssignedCollectionID>0</AssignedCollectionID>
<Collection />
<Designation>(Apr. 22 2009)</Designation>
<CallNumber />
```

```
<VolumeNumber />
<ItemStatusID>0</ItemStatusID>
<ItemStatus />
<ShelfLocationID>0</ShelfLocationID>
<ShelfLocation />
<ItemPublicNote />
</Issue>
<Issue>
<IssueID>400</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
<IssueStatusId>1</IssueStatusId>
<IssueStatus>Received</IssueStatus>
<Retained>1</Retained>
<ItemRecordID>9347160</ItemRecordID>
<Barcode>982 r0uo</Barcode>
<AssignedBranchID>101</AssignedBranchID>
<AssignedBranch>Southern Adirondack Library System</AssignedBranch>
<AssignedCollectionID>75</AssignedCollectionID>
<Collection>Magazines</Collection>
<Designation>(Apr. 22 2010)</Designation>
<CallNumber>Fict 3 4 5</CallNumber>
<VolumeNumber>6</VolumeNumber>
<ItemStatusID>15</ItemStatusID>
<ItemStatus>In-Process</ItemStatus>
<ShelfLocationID>0</ShelfLocationID>
<ShelfLocation />
<ItemPublicNote>Public Note</ItemPublicNote>
</Issue>
<Issue>
<IssueID>401</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
<IssueStatusId>1</IssueStatusId>
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<AssignedBranch>Southern Adirondack Library System</AssignedBranch>
<AssignedCollectionID>75</AssignedCollectionID>
<Collection>Magazines</Collection>
<Designation>(Apr. 22 2011)</Designation>
<CallNumber>Fict 3 4 5</CallNumber>
<VolumeNumber>6</VolumeNumber>
<ItemStatusID>15</ItemStatusID>
<ItemStatus>In-Process</ItemStatus>
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</Issue>
```

```
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<AssignedCollectionID>75</AssignedCollectionID>
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<Designation>(Apr. 22 2012)</Designation>
<CallNumber>Fict 3 4 5</CallNumber>
<VolumeNumber>6</VolumeNumber>
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<ItemStatus>In-Process</ItemStatus>
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<ShelfLocation />
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</Issue>
<Issue>
<IssueID>404</IssueID>
<IssuePublicNote />
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</Issue>
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```

```
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ShelfLocation />
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<IssuePublicNote />
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<IssueStatus>Expected</IssueStatus>
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<CallNumber />
<VolumeNumber />
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<ShelfLocation />
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<ItemPublicNote />
</Issue>
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<IssueID>406</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
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<AssignedBranch />
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<Collection />
<Designation>(Apr. 22 2016)</Designation>
<CallNumber />
<VolumeNumber />
<ItemStatusID>0</ItemStatusID>
<ItemStatus />
```

```

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<ShelfLocation />
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</Issue>
<Issue>
<IssueID>407</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
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<IssueStatus>Expected</IssueStatus>
<ItemRecordID>0</ItemRecordID>
<Barcode />
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<AssignedBranch />
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<Collection />
<Designation>(Apr. 22 2017)</Designation>
<CallNumber />
<VolumeNumber />
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<ItemStatus />
<ShelfLocationID>0</ShelfLocationID>
<ShelfLocation />
<ItemPublicNote />
</Issue>
</Issues>
</PubPattern>
</PubPatterns>
</CopyRecord>
</CopyRecords>
</Record>

</SubscriptionXMLRecord>

</GetSubscriptionsByIDRow>

</GetSubscriptionsByIDRows>

</GetSubscriptionsByIDResult>

```

XML Elements in the Subscription Data

Data Element	Description
Record	Top Level Node

Data Element	Description
BibliographicRecordID	The Bibliographic Record requested
CopyRecords	A list of copy records (if any) Associated with the Bibliographic Record
CopyID	The Unique ID of the copy record
CollectionID	The collection (if any) assigned to the copy record (0 indicates no collection)
CollectionName	The name of the collection (if any)
CompletenessCode	The completeness code (if any) associated with the copy record
OrganizationID	The organization associated with the copy record
OrganizationName	The organization name associated with the copy record
CopyNumber	The copy number assigned by the library (if any) to the copy record
DisplayInPAC	Indicates if the copy record displays in PAC
RetentionDescription	Describes the library's retention policy
HoldingsStatement	Describes the library's holdings, built by the Polaris ILS

Data Element	Description
HoldingsNote	A free text description of the library's holdings entered by the library
RetentionNote	A free text description of the library's retention policy
Notes	A list public notes created by the library (if any)
Note	A note associated with the copy record
Ordinal	Indicates the order of the note in the record
PublicNote	The Note
PubPatterns	A list of publication patterns (if any associated with the copy record)
PubPattern	A publication pattern
PubPatternID	A unique ID for the publication pattern
CategoryID	A publication pattern category ID
Category	A description of the publication pattern
EncodLevelH	Indicates the holdings level of textual holdings Indicator Level
TextualHoldings	A free text description of the library's holdings
Issues	A list of the issues associated with a publication pattern (if any)
Issue	An Issue record
IssueID	The unique ID of the issue
IssuePublicNote	A public note entered by the library for the issue (if any)
TitleOfSupIndex	The title of a supplement or index (if any)
IssueStatusId	The Issue Status ID
IssueStatus	A description of the issue status
Retained	Indicates if the library has retained this issue
ItemRecordID	The Item Record associated with the issue (if any) (0 = there is not item record attached)
Barcode	The barcode of the item associated with the issue (if any)
AssignedBranchID	The Polaris Organization that holds the item record (if any)
AssignedBranch	The name of the Polaris organization that holds the item record (if any)
AssignedCollectionID	The collection assigned to the item record (if any)
Collection	The name of the collection assigned to the item record (if any)
Designation	Issue/Part's designation. This string is converted from chronology and enumeration values, formats and captions by Polaris. This is usually the string appears on the publication's face and displays in PAC.
CallNumber	The call number associated with the item (if any)
VolumeNumber	The volume number associated with the item (if any)
ItemStatusID	The ID of the items status (if any)
ItemStatus	A textual description of the items status (if any)
ShelfLocationID	The ID of the items shelf location (if any)

Data Element	Description
ShelfLocation	A textual description of the item's shelf location (if any)
ItemPublicNote	A public note assigned by the library to the item (if any)

Example: Subscription XML After HTML Decoding

```
<Record>
<BibliographicRecordID>597046</BibliographicRecordID>
<CopyRecords>
<CopyRecord>
<CopyID>33</CopyID>
<CollectionID>75</CollectionID>
<CollectionName>Magazines</CollectionName>
<CompletenessCode>Incomplete</CompletenessCode>
<OrganizationID>101</OrganizationID>
<OrganizationName>Southern Adirondack Library System</OrganizationName>
<CopyNumber>1</CopyNumber>
<DisplayInPAC>1</DisplayInPAC>
<RetentionDescription>Other general retention policy</RetentionDescription>
<HoldingsStatement />
<HoldingsNote />
<RetentionNote />
<Notes>
<Note>
<Ordinal>1</Ordinal>
<PublicNote>This is a serials holdings record public note</PublicNote>
</Note>
<Note>
<Ordinal>2</Ordinal>
<PublicNote>This is a second Serials holdings record public</PublicNote>
</Note>
</Notes>
<PubPatterns>
<PubPattern>
<PubPatternID>967</PubPatternID>
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<EncodLevelH />
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<Issues>
<Issue>
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```

```
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```

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<Designation>(Apr. 22 2011)</Designation>
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<ItemStatus>In-Process</ItemStatus>
<ShelfLocationID>0</ShelfLocationID>
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</Issue>
<Issue>
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<Collection>Magazines</Collection>
<Designation>(Apr. 22 2012)</Designation>
<CallNumber>Fict 3 4 5</CallNumber>
<VolumeNumber>6</VolumeNumber>
<ItemStatusID>15</ItemStatusID>
<ItemStatus>In-Process</ItemStatus>
<ShelfLocationID>0</ShelfLocationID>
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</Issue>
<Issue>
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```

```

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<AssignedCollectionID>75</AssignedCollectionID>
<Collection>Magazines</Collection>
<Designation>(Apr. 22 2014)</Designation>
<CallNumber>Fict 3 4 5</CallNumber>
<VolumeNumber>6</VolumeNumber>
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<ItemStatus>In-Process</ItemStatus>
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</Issue>
<Issue>
<IssueID>403</IssueID>
<IssuePublicNote />
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<AssignedBranch/>
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<Designation>(Apr. 22 2013)</Designation>
<CallNumber />
<VolumeNumber />
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<ItemStatus />
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<ShelfLocation />
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</Issue>
<Issue>
<IssueID>405</IssueID>
<IssuePublicNote />
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<IssueStatusId>2</IssueStatusId>
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```

```
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<Barcode />
<AssignedBranchID>0</AssignedBranchID>
<AssignedBranch />
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<CallNumber />
<VolumeNumber />
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<VolumeNumber />
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<ItemStatus />
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<ShelfLocation />
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<Issue>
<IssueID>407</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
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<IssueStatus>Expected</IssueStatus>
<ItemRecordID>0</ItemRecordID>
<
```

```
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<AssignedBranch/>
<AssignedCollectionID>0</AssignedCollectionID>
<Collection />
<Designation>(Apr. 22 2017)</Designation>
<CallNumber />
<VolumeNumber />
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<ItemStatus />
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<ShelfLocation />
<ItemPublicNote />
</Issue>
</Issues>
</PubPattern>
</PubPatterns>
</CopyRecord>
</CopyRecords>
</Record>
```

Synch_Get UpdatedAuths

This method returns a list of authority record IDs for records that have been updated since a specified date and time.

Important

This method provides information for authority records that have been added or updated in the Polaris ILS.

The authority record must have a status of “final.”

Updates to the following dates will cause records to appear on this list: Creation date, imported date, modified date, first use date, or record status date.

This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.

This method returns a generic AuthIDListGetResult XML structure (see below).

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/auths/ updated?updatedate={updatedate}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values:

Name	Required	Description/Notes
		1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
updatedate	MM/DD/YYYY HH:MM:SS	Yes	Start date for record updates

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The authority record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/auths/updated?updatedate=12/2/20
13:00:00**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<AuthIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <AuthIDListRows>  
    <AuthIDListRow>  
      <AuthorityRecordID>807343</AuthorityRecordID>  
    </AuthIDListRow>  
  </AuthIDListRows>  
</AuthIDListGetResult>
```

Synch_GetUpdatedBibs

This method returns a list of bibliographic record IDs for records that have been updated since a specified date and time.

Important

This method provides information for bibliographic records that have a “final” status.

Updates to the following dates will cause records to appear on this list: Creation date, imported date, modified date, first available date, or record status date.

This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.

This method returns a generic BibIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/bibs/updated/?updatedate={updatedate}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English

Name	Required	Description/Notes
		1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
updatedate	MM/DD/YYYY HH:MM:SS	Yes	Start date for record updates

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BibIDListRows	List of bibliographic record IDs
BibIDListRow	Container for data
BibliographicRecordID	The bibliographic record ID

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/bibs/
updated?updatedate=12/2/2011 13:00:00**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<BibIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BibIDListRows>  
    <BibIDListRow>  
      <BibliographicRecordID>803851</BibliographicRecordID>  
    </BibIDListRow>  
  </BibIDListRows>  
</BibIDListGetResult>
```

Synch_GetUpdatedItems

This method returns a list of item record IDs for records that have been added or updated since a specified date and time.

Important

This method provides information for item records that have a “final” status.

The following events and actions will cause an item to appear in the list of updated items:

- Created via Acquisitions PO Line Item processing
- Created via Acquisitions Invoice processing
- Modified via PO Line Item Receive processing
- Modified via PO Line Item Segment Undo Receipt processing
- Created via Cataloging
- Modified via Item Bulk Change
- Modified via Cataloging
- Checked in
- Checked in (item was lost)
- Checked out
- Declared lost
- Claim was deleted
- Claim was made (returned or never had)
- Circulation status modified via Manage Item dialog from Check In
- Shelf location modified via Manage Item dialog from Check In
- Returned via ILL processing
- Sent in transit via Removing from Course Reserve
- Modified via PO Line Item Segment Receive processing
- Automatic status change from Check In
- Modified by automatic billed to lost processing
- Circulation status modified because item was held and request pickup branch was modified
- Circulation status modified to Routed by creation of linked route list piece
- Circulation status modified by modification of linked route list piece
- Modified via Floating Collections processing
- Renewal
- Transferred due to hold request

- Transferred due to ILL request
- Created via Acquisitions
- Created via Serials
- Marked for deletion
- Undeleted
- Barcode replaced via Check In
- Non public note modified via Manage Item dialog from Check In
- Free text block modified via Manage Item dialog from Check In
- Library assigned block modified via Manage Item dialog from Check In
- Assigned collection modified via Manage Item dialog from Check In
- Material type modified via Manage Item dialog from Check In
- Bulk checked out via Outreach Services
- Bulk checked out via Borrow by Mail
- Modified via Receive Shipment
- Linked to new bib
- Linked to new bib via Serials
- Due date reset

This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.

This method returns a generic ItemIDListGetResult XML structure (see below).

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

**/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/-
synch/items/updated/?updatedate={updatedate}**

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
updatedate	MM/DD/YYYY HH:MM:SS	Yes	Start date for record updates
enddate	MM/DD/YYYY HH:MM:SS	No	End date for record updates. Limits data set returned to mitigate performance and retrieval issues. If not used, the current date and time are used.

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemIDListRows	List of Item record IDs
ItemIDListRow	Container for data
ItemRecordID	The Item record ID

Example

https://[HOSTNAME]/PAPISer-vice/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSy1tlZPr/synch/items/updated?updatedate=12/2/2011 13:00:00

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<ItemIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
  <ItemIDListRows>
    <ItemIDListRow>
      <ItemRecordID>9367071</ItemRecordID>
    </ItemIDListRow>
  </ItemIDListRows>
</ItemIDListGetResult>
```

Synch_ItemsByBibIDGet

This method will return all item records attached to a particular bib as requested by the user. The items may be specified by bibliographic record ID.

Important

Only one bibliographic record may be requested at a time.

Bibliographic record IDs must be numeric.

If the bibliographic record requested does not exist, a row will not be returned.

This method is not appropriate for gathering holdings during the context of a catalog search by a library customer; it is meant to be used only during a synchronization process. To get holdings during a search use the public BibHoldingsGet method. See "BibHoldingsGet" on page 52.

A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/items/bibid/{Bib_ID}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemGetRows	List of item data
ItemGetRow	Container for data
LocationID	Location identifier to which this piece is assigned.
LocationName	Location name to which this piece is assigned.
CollectionID	Collection identifier to which this piece is assigned.
CollectionName	Collection name to which this piece is assigned.
Barcode	Barcode assigned to the piece.
PublicNote	Public note of the piece.
CallNumber	Local call number of the piece. Includes VolumeNumber if exists.
Designation	Designation assigned to the piece. If the piece is not associated with serial then this value will be NULL.
VolumeNumber	Volume number assigned to the piece.
ShelfLocation	Shelf location assigned to the piece.
CircStatus	Circulation status of the piece.
LastCircDate	Last circulation date of the piece.
MaterialType	Material type of the piece.
TextualHoldingsNote	Textual holdings note associated with the assigned location/collection.
RetentionStatement	Retention statement associated with the assigned location.
HoldingsStatement	Holdings statement associated with the assigned location.
HoldingsNote	Holdings note associated with the assigned location.
Holdable	Specifies whether a hold can be placed on the piece.
DueDate	Specifies when the item is due back to the library.
ItemRecordID	The items record ID
BibliographicRecordID	The bibliographic record ID to which the item is attached
IsDisplayInPAC	Boolean true or false. Indicates if the library wishes the record to display in PAC.
CreationDate	The date and time that the record was created in the system.
FirstAvailableDate	The first available date for the bib is the first day the first item linked to the bib becomes available for circulation. This data may be NULL.
ModificationDate	The date and time of last record modification. This data may be NULL.

Example

[https://\[HOSTNAME\]/PAPISer-](https://[HOSTNAME]/PAPISer-)

vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/items/bibid/1

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<ItemGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <ItemGetRows>
    <ItemGetRow>
      <LocationID>97</LocationID>
      <LocationName>Scotia Branch - Schenectady County Public Library</LocationName>
      <CollectionID>0</CollectionID>
      <CollectionName/><Barcode>0000408366227</Barcode>
      <PublicNote/>
      <CallNumber>Fict Hel</CallNumber>
      <Designation/>
      <VolumeNumber/>
      <ShelfLocation/>
      <CircStatus>In</CircStatus>
      < LastCircDate>Apr 27 2007 </LastCircDate>
      <MaterialType>Book</MaterialType>
      <TextualHoldingsNote/>
      <RetentionStatement/>
      <HoldingsStatement/>
      <HoldingsNote/>
      <Holdable>true</Holdable>
      <DueDate/>
```

```
<ItemRecordID>572680</ItemRecordID>  
<BibliographicRecordID>1</BibliographicRecordID>  
<IsDisplayInPAC>true</IsDisplayInPAC>  
<CreationDate>2009-07-28T11:57:09.347</CreationDate>  
<FirstAvailableDate>2009-07-28T11:57:09.347</FirstAvailableDate>  
<ModificationDate>2009-07-28T11:57:09.347</ModificationDate>  
</ItemGetRow>  
</ItemGetRows>  
</ItemGetResult>
```

Synch_ItemByIDGet

This method will return an item record requested by the user. The item may be specified by item record ID.

Important

Only one item record may be requested at a time.

Item record IDs must be numeric.

If the item record requested does not exist, a row will not be returned.

A call to `AuthenticateStaffUser` is required before calling any protected methods.

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/item/{item_ID}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish

Name	Required	Description/Notes
		3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemGetRows	List of item data
ItemGetRow	Container for data
LocationID	Location identifier to which this piece is assigned.
LocationName	Location name to which this piece is assigned.
CollectionID	Collection identifier to which this piece is assigned.
CollectionName	Collection name to which this piece is assigned.
Barcode	Barcode assigned to the piece.
PublicNote	Public note of the piece.
CallNumber	Local call number of the piece. Includes VolumeNumber if exists.
Designation	Designation assigned to the piece. If the piece is not associated with serial then this value will be NULL.

Name	Description/Notes
VolumeNumber	Volume number assigned to the piece.
ShelfLocation	Shelf location assigned to the piece.
CircStatus	Circulation status of the piece.
LastCircDate	Last circulation date of the piece.
MaterialType	Material type of the piece.
TextualHoldingsNote	Textual holdings note associated with the assigned location/collection.
RetentionStatement	Retention statement associated with the assigned location.
HoldingsStatement	Holdings statement associated with the assigned location.
HoldingsNote	Holdings note associated with the assigned location.
Holdable	Specifies whether a hold can be placed on the piece.
DueDate	Specifies when the item is due back to the library.
ItemRecordID	The items record ID
BibliographicRecordID	The bibliographic record ID to which the item is attached
IsDisplayInPAC	Boolean true or false. Indicates if the library wishes the record to display in PAC.
CreationDate	The date and time that the record was created in the system.
FirstAvailableDate	The first available date for the bib is the first day the first item linked to the bib becomes available for circulation. This data may be NULL.
ModificationDate	The date and time of last record modification. This data may be NULL.

Example

**https://[HOSTNAME]/PAPISer-
vice/REST/-
protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/synch/item/572680**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<ItemGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
```

```
<ItemGetRows>
<ItemGetRow>
<LocationID>97</LocationID>
<LocationName>Scotia Branch - Schenectady County Public Library</LocationName>
<CollectionID>0</CollectionID>
<CollectionName/><Barcode>0000408366227</Barcode>
<PublicNote/>
<CallNumber>Fict Hel</CallNumber>
<Designation/>
<VolumeNumber/>
<ShelfLocation/>
<CircStatus>In</CircStatus>
<LastCircDate>Apr 27 2007 </LastCircDate>
<MaterialType>Book</MaterialType>
<TextualHoldingsNote/>
<RetentionStatement/>
<HoldingsStatement/>
<HoldingsNote/>
<Holdable>true</Holdable>
<DueDate/>
<ItemRecordID>572680</ItemRecordID>
<BibliographicRecordID>410354</BibliographicRecordID>
<IsDisplayInPAC>true</IsDisplayInPAC>
<CreationDate>2009-07-28T11:57:09.347</CreationDate>
<FirstAvailableDate>2009-07-28T11:57:09.347</FirstAvailableDate>
<ModificationDate>2009-07-28T11:57:09.347</ModificationDate>
</ItemGetRow>
</ItemGetRows>
</ItemGetResult>
```

Synch Methods for 3rd Party Circulation

These protected methods have been developed for use in synchronizing third-party circulation operations with the Polaris database.

See Also:

- `SynchTasksCheckout`
- `SynchTasksCheckin`
- `SynchTasksExpireCopy`
- `SynchTasksNotifyPatron`
- `SynchTasksNotifyPatronItem`
- `SynchTasksPullMARCDData`

SynchTasksCheckout

Writes checkout transaction information into the Polaris database for additional processing within the Polaris ILS.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/tasks/checkout`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

Query String Parameters

Name	Value	Required	Description/Notes
wsid	>0	No	ID of workstation calling this method
userid	>0	No	ID of user calling this method (not patron ID)

Request Body XML

Important:

XML elements must be in the order shown below.

<SynchTasksCheckoutData>

<VendorID/> -- free text string, please consult with Polaris

<VendorContractID/> -- free text string, please consult with Polaris

<UniqueRecordID/> -- the record ID in 3rd party system that identifies title

<PatronBarcode/> -- patron barcode as represented in Polaris

<ItemExpireDateTime/> -- use GMT, ex. 2012-06-01T11:00:00

<TransactionDateTime/> -- use GMT, ex. 2012-06-01T11:00:00

</SynchTasksCheckoutData>

HTTP Verb

PUT

Authorization required?

Yes

Example

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/-synch/tasks/checkout

Header

Date: Wed, 28 Apr 2010 14:14:32 GMT
Authorization: PWS polarisdev:TKycQwgl+APCicovsRwass4DecU=
Host: localhost
Content-Type: text/xml
Content-Length: 0

Body

```
<SynchTasksCheckoutData>
  <VendorID>3M Cloud Library</VendorID>
  <VendorContractID>12345</VendorContractID>
  <UniqueRecordID>djhs8</UniqueRecordID>
  <PatronBarcode>1000200692332</PatronBarcode>
  <ItemExpireDateTime>2012-06-12T23:59:59</ItemExpireDateTime>
  <TransactionDateTime>2012-06-01T11:00:00</TransactionDateTime>
</SynchTasksCheckoutData>
```

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<SynchTasksCheckoutResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/></SynchTasksCheckoutResult>

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<SynchTasksCheckoutResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-3000</PAPIErrorCode><ErrorMessage>Error retrieving patron ID.</ErrorMessage></SynchTasksCheckoutResult>

SynchTasksCheckin

Writes checkin transaction information into the Polaris database for additional processing within the Polaris ILS.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/tasks/checkin`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

Query String Parameters

Name	Value	Required	Description/Notes
wsid	>0	No	ID of workstation calling this method
userid	>0	No	ID of user calling this method (not patron ID)

Request Body XML

Important:

XML elements must be in the order shown below.

<SynchTasksCheckinData>

<VendorID/> -- free text string, please consult with Polaris

<VendorContractID/> -- free text string, please consult with Polaris

<UniqueRecordID/> -- the record ID in 3rd party system that identifies title

<PatronBarcode/> -- patron barcode as represented in Polaris

<TransactionDateTime/> -- use GMT, ex. 2012-06-01T11:00:00

</SynchTasksCheckinData>

HTTP Verb

PUT

Authorization required?

Yes

Example

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/-synch/tasks/checkin

Header

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

<SynchTasksCheckinData>

<VendorID>3M Cloud Library</VendorID>

<VendorContractID>12345</VendorContractID>

<UniqueRecordID>djhs8</UniqueRecordID>

<PatronBarcode>1000200692332</PatronBarcode>

<TransactionDateTime>2012-06-01T11:00:00</TransactionDateTime>

</SynchTasksCheckinData>

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<SynchTasksCheckinResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError-
rorCode>0</PAPIErrorCode><ErrorMessage/></SynchTasksCheckinResult>

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

<SynchTasksCheckinResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-3000</PAPIErrorCode><ErrorMessage>Error retrieving patron
ID. </ErrorMessage></SynchTasksCheckinResult>

SynchTasksExpireCopy

This method is used to inform the Polaris ILS when a copy of a title in the library's eContent collection has expired, and is no longer available for check out. For certain publishers this expiration may be time-based; for others the expiration may be based on a particular number of check-out transactions.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/tasks/expirecopy`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

Query String Parameters

Name	Value	Required	Description/Notes
wsid	>0	No	ID of workstation calling this method
userid	>0	No	ID of user calling this method (not patron ID)

Request Body XML

Important:

XML elements must be in the order shown below.

<SynchTasksExpireCopyData>

<VendorID/> -- free text string, please consult with Polaris (required)

<VendorContractID/> -- free text string, please consult with Polaris (required)

<UniqueRecordID/> -- the record ID in 3rd-party system that identifies title (required)

<PatronBarcode/> -- the patron identifier (username or barcode) associated with the event (if any, optional)

<TransactionDateTime/> -- the date and time the copy expired in the vendors repository (required)

</SynchTasksExpireCopyData>

HTTP Verb

POST

Authorization required?

Yes

Example

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/-synch/tasks/expirecopy

Header

User-Agent: Fiddler
Date: Wed, 28 Apr 2010 14:14:32 GMT
Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=
Host: localhost
Content-Type: text/xml
Content-Length: 0

Body

```
<SynchTasksExpireCopyData>
  <VendorID>3M Cloud Library</VendorID>
  <VendorContractID>cezmf</VendorContractID>
  <UniqueRecordID>tomg9</UniqueRecordID>
  <PatronBarcode/>
  <TransactionDateTime>2012-09-02T00:00:00</TransactionDateTime>
</SynchTasksExpireCopyData>
```

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<SynchTasksExpireCopyResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError-
rorCode>0</PAPIErrorCode><ErrorMessage/></SynchTasksExpireCopyResult>

Return - Failed

HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

< SynchTasksExpireCopyResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIError-
Code>-1</PAPIErrorCode><ErrorMessage>Failure - gen-
eral</ErrorMessage></SynchTasksExpireCopyResult>

SynchTasksNotifyPatron

Writes patron notification transaction information into the Polaris database for additional processing within the Polaris ILS.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/tasks/notifypatron`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

Query String Parameters

Name	Value	Required	Description/Notes
wsid	>0	No	ID of workstation calling this method
userid	>0	No	ID of user calling this method (not patron ID)

Request Body XML

Important:

XML elements must be in the order shown below.

<SynchTasksNotifyPatronData>

<VendorID/> -- free text string, please consult with Polaris

<VendorContractID/> -- free text string, please consult with Polaris

<PatronBarcode/> -- patron barcode as represented in Polaris

<Message/> -- message to the patron

</SynchTasksNotifyPatronData

HTTP Verb

PUT

Authorization required?

Yes

Example

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/-synch/tasks/notifypatron

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<SynchTasksNotifyPatronData>
  <VendorID>3M Cloud Library</VendorID>
  <VendorContractID>12345</VendorContractID>
  <PatronBarcode>1000200692332</PatronBarcode>
  <Message>Please resolve your holds</Message>
</SynchTasksNotifyPatronData>
```

Return - Success

```
HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<SynchTasksNotifyPatronResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage/></SynchTasksNotifyPatronResult>
```

Return - Failed

```
HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

< SynchTasksNotifyPatronResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-3000</PAPIErrorCode><ErrorMessage>Error retrieving patron
ID. </ErrorMessage></SynchTasksNotifyPatronResult>
```

SynchTasksNotifyPatronItem

Writes patron notification transaction information into the Polaris database for additional processing within the Polaris ILS. This method is to be used for when a message relates to a specific patron/title combination.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/tasks/notifypatronitem`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

Query String Parameters

Name	Value	Required	Description/Notes
wsid	>0	No	ID of workstation calling this method
userid	>0	No	ID of user calling this method (not patron ID)

Request Body XML

Important:

XML elements must be in the order shown below.

<SynchTasksNotifyPatronData>

<VendorID/> -- free text string, please consult with Polaris

<VendorContractID/> -- free text string, please consult with Polaris

<UniqueRecordID/> -- the record ID in 3rd party system that identifies title

<PatronBarcode/> -- patron barcode as represented in Polaris

<Message/> -- message to the patron

</SynchTasksNotifyPatronData

HTTP Verb

PUT

Authorization required?

Yes

Example

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/-synch/tasks/notifypatronitem

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<SynchTasksNotifyPatronItemData>
  <VendorID>3M Cloud Library</VendorID>
  <VendorContractID>12345</VendorContractID>
  <UniqueRecordID>djhs8</UniqueRecordID>
  <PatronBarcode>1000200692332</PatronBarcode>
  <Message>This title is on hold for you.</Message>
</SynchTasksNotifyPatronItemData>
```

Return - Success

```
HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

<SynchTasksNotifyPatronItemResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIError-
rorCode>0</PAPIErrorCode><ErrorMessage/></SynchTasksNotifyPatronItemResult>
```

Return - Failed

```
HTTP/1.1 401 Unauthorized
WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8

< SynchTasksNotifyPatronItemResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-3000</PAPIErrorCode><ErrorMessage>Error retrieving patron
ID. </ErrorMessage></SynchTasksNotifyPatronItemResult>
```

SynchTasksPullMARCDData

Writes information about a title available in a 3rd party system. This is used as a trigger for a call to a 3rd party vendor API to retrieve an XML MARC record for a particular unique ID. This method should only be used if a 3rd party vendor has a corresponding API with a method that allows pulling MARC record data on a record-by-record basis.

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/tasks/pullMARCDData`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 3084 – French

Query String Parameters

Name	Value	Required	Description/Notes
wsid	>0	No	ID of workstation calling this method
userid	>0	No	ID of user calling this method (not patron ID)

Request Body XML

Important:

XML elements must be in the order shown below.

<SynchTasksPullIMARCDATA>

<VendorID/> -- free text string, please consult with Polaris

<VendorContractID/> -- free text string, please consult with Polaris

<UniqueRecordID/> -- the record ID in 3rd party system that identifies title

</SynchTasksPullIMARCDATA>

HTTP Verb

PUT

Authorization required?

Yes

Example

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/-
synch/tasks/pullIMARCDATA

Header

User-Agent: Fiddler

Date: Wed, 28 Apr 2010 14:14:32 GMT

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<SynchTasksPullIMARCDATA>
  <VendorID>3M Cloud Library</VendorID>
  <VendorContractID>12345</VendorContractID>
  <UniqueRecordID>djhs8</UniqueRecordID>
</SynchTasksPullIMARCDATA>
```

Return - Success

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<SynchTasksPullIMARCResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIEr-
rorCode>0</PAPIErrorCode><ErrorMessage/></SynchTasksPullIMARCResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

Content-Type: application/xml; charset=utf-8

```
<SynchTasksPullIMARCResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Failure - gen-
eral</ErrorMessage></SynchTasksPullIMARCResult>
```