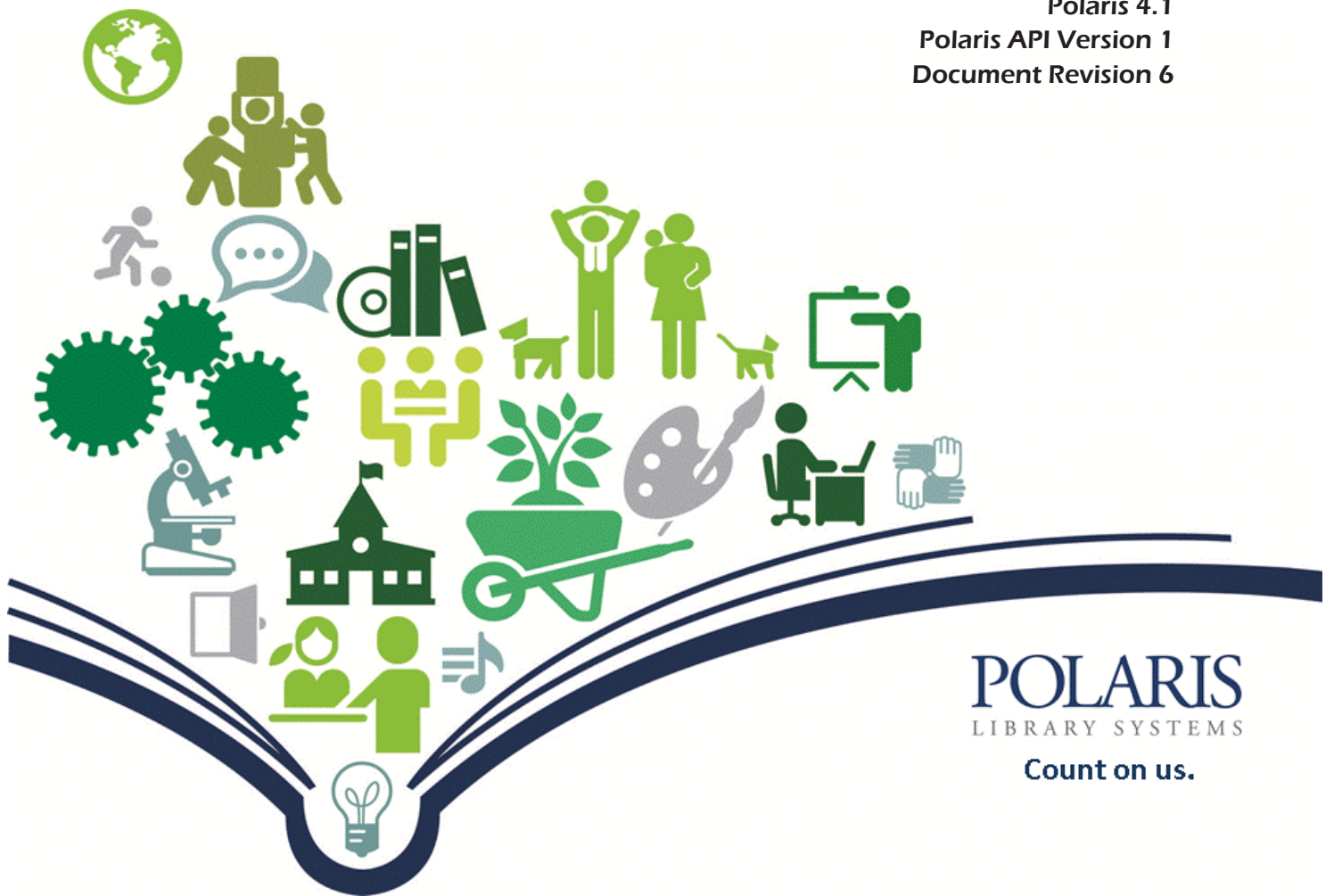


# Polaris Application Programming Interface (PAPI) Reference Guide

Polaris 4.1  
Polaris API Version 1  
Document Revision 6



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# Polaris API - Overview

The Polaris REST Application Programming Interface 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.

## 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 6.
- **Notification Update for telephone notice processing** - Polaris 4.0.568 and later. See [“NotificationUpdate”](#) on page 59.
- **All protected method calls now require SSL** - See [“SSL in Polaris 4.0.676 and later; 4.1.442 and later”](#) on page 5, and [“PAPI Protected Methods”](#) on page 8.
- **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 21.
- **Retrieve a list of collections** - Polaris 4.0.688 and later; Polaris 4.1.455 and later. See [“CollectionsGet”](#) on page 28.
- **PatronBasicDataGet returns additional fields** - Polaris 4.0.683 and later; Polaris 4.1.450 and later. See [“PatronBasicDataGet”](#) on page 71.
- **Retrieve, update, and delete patron messages** - Polaris 4.0.687 and later; Polaris 4.1.454 and later. See [“PatronMessagesGet”](#) on page 86, [“PatronMessageUpdateStatus”](#) on page 88, and [“PatronMessageDelete”](#) on page 89.
- **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 94.
- **Synch methods for 3rd party discovery interfaces** - Polaris 4.1.488 and later. See [“Synch Methods for 3rd Party Discovery Interfaces”](#) on page 116. Additional method [Synch\\_GetSubscriptionsByID](#) added Polaris 4.1.720 and later. See [“Synch\\_GetSubscriptionsByID”](#) on page 148. 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 172. **Expire Copy** synch method added Polaris 4.1.769 and later. See [“SynchTasksExpireCopy”](#) on page 179.
- **New error codes for invalid password length and format** - Polaris 4.1. See [“PAPI Error Codes”](#) on page 9.
- **Changes to PatronUpdate method** - Polaris 4.1.542 and later. See [“PatronUpdate”](#) on page 109.
- **Patron renewal blocks** - Polaris 4.1.679 and later. See [“Patron\\_RenewBlocksGet”](#) on page 99.

- **Patron validate/circ blocks** - For PAPI consumers. Polaris 4.1.729. See "[PatronCirculateBlocksGet](#)" on page 75.
- **Changes to SynchTasksExpireCopyData** (synch methods for 3rd party circulation) - Polaris 4.1.803 and later. See "[SynchTasksExpireCopy](#)" on page 179.
- **Methods to search for patrons via CCL and place blocks on patron records** - Polaris 4.1.306.2 and later. See "[PatronSearch](#)" on page 105 and "[CreatePatronBlocks](#)" on page 77.

## 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
ERMSNetworkAddress	Override the default ERMS Network Address.
ExrernalHostname	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](#)" on page 9.

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

```
"\Date(1295352000000)\"
```

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” on page 15) 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/ORGPHONE1](https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/[AccessToken]/organization/1/sysadmin/attribute/ORGPHONE1)

HTTP Verb: GET

Authorization Required: Yes

Header:

Date: Sat, 14 May 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:ZasTURsRdIEHeKgdA1MGXROUxTI=  
 Content-Type: text/xml

---

## *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.

<i>Code</i>	<i>Reason</i>
<b>General</b>	
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.

<i>Code</i>	<i>Reason</i>
-4	FAILURE - ERMS error
<b><i>Bibliographic Errors - [1000-1999]</i></b>	
-1000	Invalid BibliographicRecordID specified
<b><i>Item/Holdings Errors - [2000-2999]</i></b>	
-2000	Invalid ItemRecordID specified
<b><i>Patron Errors - [3000-3999]</i></b>	
-3000	Invalid PatronID specified
-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	Password problem (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
-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

<i>Code</i>	<i>Reason</i>
-3529	Invalid password length
-3530	Invalid password format
-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
<b><i>Hold Request Errors - [4000-4999]</i></b>	
-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
-4100	Invalid request GUID supplied
-4101	Invalid txn group qualifier supplied
-4102	Invalid txn qualifier supplied
-4103	Invalid answer supplied
-4104	Invalid state supplied
-4201	Invalid request ID supplied
-4202	Invalid current org ID supplied
-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
<b><i>Organization Errors - [5000-5999]</i></b>	
-5000	Invalid OrganizationID specified
<b><i>Circulation Errors - [6000-6999]</i></b>	
-6000	Invalid loan unit supplied
-6001	ItemCheckout record does not exist



<i>Code</i>	<i>Reason</i>
<b>Course Reserve Errors - [7000-7999]</b>	
-7000	Invalid CourseReserveID specified
<b>PolarisUser Errors - [8000-8999]</b>	
-8000	Invalid PolarisUserID specified
<b>Workstation Errors - [9000-9999]</b>	
-9000	Invalid WorkstationID specified

## Application IDs

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

<i>ID</i>	<i>Application (Product)</i>
1	PowerPAC
2	Children's PAC
3	ActivePAC
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 rowsets.

<i>ID</i>	<i>Format Description</i>
1	Book
2	Printed or Manuscript Music
3	Cartographic Material
4	Visual Materials
5	Sound Recording
6	Electronic Resources
7	Archival Mixed Materials

<i>ID</i>	<i>Format Description</i>
8	Serial
9	Printed Music
10	Manuscript Music
11	Printed Cartographic Material
12	Manuscript Cartographic Material
13	Map
14	Globe
15	Manuscript Material
16	Projected Medium
17	Motion Picture
18	Video Recording
19	Two Dimensional Non-projected Graphic
20	Three Dimensional Object
21	Musical Sound Recording
22	Nonmusical Sound Recording
23	Kit
24	Periodical
25	Newspaper
26	Microform
27	Large Print
28	Braille
33	DVD
34	Videotape
35	Music CD
36	eBook
37	Audio Book

## General URI Parameters

<i>Name</i>	<i>Required</i>	<i>Description/Notes</i>
app-ID	Yes	Calling application (product) ID (see " <a href="#">Application IDs</a> " on page 12)
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

# 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](#)” on page 8.

---

## *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*

<i>Name</i>	<i>Required</i>	<i>Description/Notes</i>
Domain	Yes	Domain name
Username	Yes	Username
Password	Yes	Password

---

## *Authorization Required?*

Yes

---

## *XML Elements Returned*

<i>Name</i>	<i>Description/Notes</i>
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*

<i>Name</i>	<i>Description/Notes</i>
ElementID	<p>Is the element identifier. Possible values include:</p> <ul style="list-style-type: none"> <li>2 - Publisher</li> <li>3 - Description</li> <li>5 - Edition</li> <li>6 - ISBN</li> <li>7 - System Items Total</li> <li>8 - Current Holds</li> <li>9 - Summary</li> <li>10 - Local Items Total</li> <li>11 - Control Number</li> <li>13 - Call Number</li> <li>15 - Local Items Available</li> <li>16 - System Items Available</li> <li>17 - Format</li> <li>18 - Author</li> <li>19 - Series</li> <li>20 - Subject</li> <li>21 - Added Author</li> <li>22 - Added Title</li> <li>23 - LCCN</li> <li>24 - ISSN</li> <li>25 - Other Number</li> <li>27 - Genre</li> <li>28 - Notes</li> <li>29 - Contents</li> <li>30 - Publisher Number</li> <li>33 - Web Link</li> <li>34 - Uniform Title</li> <li>35 - Title</li> <li>36 - Volume</li> <li>37 - Frequency</li> <li>39 - Former Title</li> <li>40 - Later Title</li> <li>41 - STRN</li> <li>42 - GPO Item Number</li> <li>43 - CODEN</li> <li>44 - Target Audience</li> <li>46 - Medium</li> </ul>
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</ElementID><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</ElementID><Occurrence>1</Occurrence><Label>Publisher, Date:</
Label><Value>New York : Scribner, 1961, c1933.</Value><Alternate>>false</Alternate></
BibGetRow><BibGetRow><ElementID>3</ElementID><Occurrence>1</Occurrence><Label>Description:</
Label><Value>259 p. : illus. ; 21 cm.</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><ElementID>17</
ElementID><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</ElementID><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><Occurrence>1</Occurrence><Label>System Availability:</
Label><Value>4</Value><Alternate>>false</Alternate></BibGetRow><BibGetRow><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</
ElementID><Occurrence>1</Occurrence><Label>System Items Available:</Label><Value>3</Value><Alternate>>false</
Alternate></BibGetRow></BibGetRows></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 SORTBY clause when using the `q` query string parameter. 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+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		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
limit	string		Partial CCL command. Examples: TOM=dvd TOM=dvd AND AB=74 See " <a href="#">LimitFiltersGet</a> " on page 57 for valid options
page	int		Default is 1, for first page
bibsperpage	>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&bibsperpage=2

http://localhost/PAPIService/REST/public/v1/1033/100/1/search/bibs/keyword/au/roald%20dahl?sort=PDTI&limit=TOM=dvd&bibsperpage=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><BibSearchRow><Position>1</Position><ControlNumber>675617</ControlNumber><Title>Roald Dahl's The BFG (Big friendly giant) [DVD]</Title><Author/><Publisher>Arlington, VA : A&amp;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><PrimaryTypeOfMaterial>33</PrimaryTypeOfMaterial><CallNumber>ROAL</CallNumber><CourseReserveCount>0</CourseReserveCount><LocalItemsIn>0</LocalItemsIn><LocalItemsTotal>0</LocalItemsTotal><SystemItemsIn>8</SystemItemsIn><SystemItemsTotal>13</SystemItemsTotal><CurrentHoldRequests>0</CurrentHoldRequests><KWIC>&lt;span&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/><VernacularPublisher/><LocalControlNumber/><Series/><SeriesSuggestedQuery/><VernacularSeries/></BibSearchRow><BibSearchRow><Position>2</Position><ControlNumber>699507</ControlNumber><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><Description>1 videodisc (DVD)(ca. 115 min.) : sd., col. ; 4 3/4 in.</Description><WebLink/><Fiction/><TypeOfMaterial>33181604</TypeOfMaterial><PrimaryTypeOfMaterial>33</PrimaryTypeOfMaterial><CallNumber>CHAR</CallNumber><CourseReserveCount>0</CourseReserveCount><LocalItemsIn>0</LocalItemsIn><LocalItemsTotal>0</LocalItemsTotal><SystemItemsIn>1</SystemItemsIn><SystemItemsTotal>2</SystemItemsTotal><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/><VernacularPublisher/><LocalControlNumber/><Series/><SeriesSuggestedQuery/><VernacularSeries/></BibSearchRow></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 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 = (ABS(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 = (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 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><DisplayConstant/><DisplayTerm>Civil society--Russia (Federation)</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D2</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>2</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil society--History--20th century</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D3</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil unions</DisplayTerm><GlobalOccurrences>0</GlobalOccurrences><HeadingID>106D5</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayType>2</DisplayType><DisplayConstant>SEE ALSO:</DisplayConstant><DisplayTerm>Same-sex marriage</DisplayTerm><GlobalOccurrences>28</GlobalOccurrences><HeadingID>45AD1</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>0</Position><DisplayType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil unions--Law and legislation--United States.</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D6</HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayType>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></HeadingsSearchRows></HeadingsSearchResult>
```

```

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`

# 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]

Name	Description/Notes
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><LastCircDate>Sep 5 2006 </LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStatement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>1</ItemsIn><Holdable>true</Holdable></BibHoldingsGetRow><BibHoldingsGetRow><LocationID>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><LastCircDate>Aug 30 2005 </LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStatement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>1</ItemsIn><Holdable>true</Holdable></BibHoldingsGetRow><BibHoldingsGetRow><LocationID>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><LastCircDate>Jul 21 2006 </LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStatement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>1</ItemsIn><Holdable>true</Holdable></BibHoldingsGetRow><BibHoldingsGetRow><LocationID>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><LastCircDate>Jan 17 2006 </LastCircDate><MaterialType>Book</MaterialType><TextualHoldingsNote/><RetentionStatement/><HoldingsStatement/><HoldingsNote/><ItemsTotal>1</ItemsTotal><ItemsIn>0</ItemsIn><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"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid BibID</ErrorMessage><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://localhost/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"><PAPIErrorCode>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://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/holdrequests/0/cancelled?wsid=1&userid=1

---

## *Header*

User-Agent: Fiddler  
Date: Wed, 09 Oct 2009 22:23:32 GMT  
Authorization: PWS polarisdev:cWby7eo3Yom/liBGmO+l/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/><HoldRequestCancelRows><HoldRequestCancelRow><SysHoldRequestID>803430</SysHoldRequestID><ReturnCode>0</ReturnCode><ErrorMessage/></HoldRequestCancelRow><HoldRequestCancelRow><SysHoldRequestID>803431</SysHoldRequestID><ReturnCode>0</ReturnCode><ErrorMessage/></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</PAPIErrorCode><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
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

Name	Description/Notes
StatusValue	Status value 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?
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:c0m8aVzKYLlW0HfEREt9TbtXVqs=  
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></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>
```

# 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?
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/><TxnGroupQualifer/><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*

<i>Name</i>	<i>Description/Notes</i>
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://localhost/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://localhost/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/
><HoldRequestActivationRows><HoldRequestActivationRow><SysHoldRequestID>803449</SysHoldRequestID><ReturnCode>0</ReturnCode><NewActivationDate>2009-12-31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow><HoldRequestActivationRow><SysHoldRequestID>803531</SysHoldRequestID><ReturnCode>0</ReturnCode><NewActivationDate>2009-12-31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow></HoldRequestActivationRows></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 parameter value from a DateTime to a Int32.</ErrorMessage><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
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"><PAPIErrorCode>0</PAPIErrorCode><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></ItemRenewBlockRow></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"><PAPIErrorCode>-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
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"><PAPIErrorCode>-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>
```

# 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 specified</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 *only* supports telephone notification processing and may be used in conjunction with the phone notification export process.

A call to AuthenticateStaffUser is required before calling any protected methods. See “AuthenticateStaffUser” on page 15. For more information about protected methods, see “PAPI Protected Methods” on page 8.

---

## URI

/protected/{version}/{lang\_ID}/{app\_ID}/{org\_ID}/{access\_token}/notification/{notification\_type\_ID}

---

## HTTP Verb

PUT

---

## Notification Type ID

ID	Notification Type	ID	Notification Type
0	Combined	9	Inactive Reminder
1	1st Overdue	10	Expiration Reminder
2	Hold	11	Bill
3	Cancel	12	2nd Overdue
4	Recall	13	3rd Overdue
5	All	14	Serial Claim
6	Route	15	Polaris Fusion Access Request
7	Almost overdue reminder	16	Course Reserves
8	Fine	17	Borrow-By-Mail Failure Notice



## 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
ReportingOrgID	See notes	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 8 - Call failed - Intercept tones heard 9 - Call failed - Probable bad phone number 10 - Call failed - Maximum number of retries exceeded 11 - Call failed - Undetermined error 12 - Email Completed 13 - Email Failed - Invalid address 14 - Email Failed 15 - Mail Printed
NotificationDeliveryDate	Yes	Notification Delivery Date

<i>Name</i>	<i>Required</i>	<i>Description/Notes</i>
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 3,4,5 currently supported *
DeliveryString	Yes	Phone number or email
Details	No	Status message from notification device
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 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.

---

### *Authorization Required?*

Yes

---

### *Protected method?*

Yes

---

### *Return Codes*

<i>ID</i>	<i>Notification Type</i>
0	Success
-1	Failure general
-5	Failure database
-6	Failure invalid parameter
-2000	Item ID is invalid
-3000	Patron ID is invalid

---

## *XML Elements Returned*

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

---

## *Example*

http://[hostname]/PAPIService/REST/protected/v1/1033/100/1/HfOzmNFbhgIFMOQvFpZpjzCdM2Bq1Qcs/notification/1

---

## *Header*

Date: Thu, 8 Aug 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+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.</ErrorMessage>
</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

---

## Example

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

---

## Header

Date: Wed, 09 Oct 2009 22:23:32 GMT  
 Authorization: PWS polarisdev:9kmLXtx5jvA+XIVqLeHv/2LFRvo=

---

### *Return - Success*

HTTP/1.1 200 OK

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

```
<OrganizationsGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>1</PAPIErrorCode><ErrorMessage/><OrganizationsGetRows><OrganizationsGetRow><OrganizationID>1</OrganizationID><OrganizationCodeID>1</OrganizationCodeID><Name>System -- CLUSTER</Name><Abbreviation>MVLS-SALS</Abbreviation><DisplayName>MVLS-SALS</DisplayName></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"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid type specified</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
BranchID	Polaris ID of the branch associated with the fine
BranchName	Name of the branch associated with the fine

<i>Name</i>	<i>Description/Notes</i>
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 <a href="#">“Material Format Types”</a> on page 12)
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:VquvxxkQOvaaJ5k1UdY7gAThe5gc=

---

### *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"><PAPIErrorCode>-1</
PAPIErrorCode><ErrorMessage>Invalid type specified</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)

## Request Body XML

### Important:

XML elements must be in the order shown below.

<PatronAccountPayData>

<TxnAmount/> [ has to be a valid dollar amount and not greater than balance owed]

<PaymentMethodID/> [valid values are 11, 12, 13, 14, 15, 17]

<FreeTextNote/> [optional value]

</PatronAccountPayData >

---

## XML Body Elements

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://[hostname]/PAPIService/REST/protected/v1/1033/100/1/kSUEQM6CuhkFalolaHPYdpHJOU7NeczI/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>
```

# 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
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 #.
EmailAddress	Patron's primary email address

<i>Name</i>	<i>Description/Notes</i>
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
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: <code>/basicdata?addresses=1</code> Address fields: <ul style="list-style-type: none"> <li>• AddressID</li> <li>• FreeTextLabel</li> <li>• StreetOne</li> <li>• StreetTwo</li> <li>• City</li> <li>• State</li> <li>• County</li> <li>• PostalCode</li> <li>• ZipPlusFour</li> <li>• Country</li> <li>• CountryID</li> <li>• AddressTypeID</li> </ul>
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
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
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\\_barcode}/circulationblocks](http://[HOSTNAME]/PAPIService/REST/public/v1/1033/100/1/patron/{patron_barcode}/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*

<i>PAPI Error Code</i>	<i>Description</i>
-3506	Invalid block value
-3507	Duplicate block value

---

## *URI*

/protected/{version}/{lang\_ID}/{app\_ID}/{org\_ID}/{access\_token}/patron/{patron\_barcode}/blocks

---

## *HTTP Verb*

POST

---

## *Authorization required?*

Yes

---

## *Protected?*

Yes

---

## *String Query Values*

<i>Name</i>	<i>Values</i>	<i>Required</i>	<i>Description/Notes</i>
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: <ul style="list-style-type: none"> <li>• 1 = Free text block</li> <li>• 2 = library assigned block</li> <li>• 3 = System block</li> </ul>
BlockValue	The Block value <ul style="list-style-type: none"> <li>• When a free text block is created - a string no more than 255 characters in length</li> <li>• When a library assigned block is created - an integer representing a valid patron stop ID</li> <li>• When a system block is created - the following integer values are allowed: <ul style="list-style-type: none"> <li>64 - Self-Registration from PAC Block</li> <li>128 - Address update from PAC Block</li> <li>256 - Express Registration Block</li> <li>512 - Offline Registration Block</li> </ul> </li> </ul>

## 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:/uessDsxxjU9iY2QJDNJbV+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.

<i>Name</i>	<i>Description/Notes</i>
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 <a href="#">“Material Format Types”</a> on page 12)
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
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]

## 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/><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 Filter</ErrorMessage><PatronHoldRequestsGetRows i:nil="true"/></PatronHoldRequestsGetResult>
```

# 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
Barcode	The item barcode
BibID	The ID of the associated bibliographic record
FormatID	Polaris ID of the type of format (see <a href="#">“Material Format Types”</a> on page 12)
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



<i>Name</i>	<i>Description/Notes</i>
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.

### 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>372798</ItemID><Barcode>0000402652317</Barcode><BibID>15310</BibID><FormatID>1</FormatID><FormatDescription>Book</FormatDescription><Title>Jump, frog, jump!</Title><Author>Kalan, Robert.</Author><CallNumber>jP Fict</CallNumber><CheckOutDate>2009-09-09T17:40:38.72</CheckOutDate><DueDate>2009-10-07T23:59:59</DueDate><RenewalCount>1</RenewalCount><RenewalLimit>1</RenewalLimit><AssignedBranchID>75</AssignedBranchID><AssignedBranchName>Mont Pleasant Branch - Schenectady County Public L</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free Library</LoaningBranchName></PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>527727</ItemID><Barcode>0000407334192</Barcode><BibID>325926</BibID><FormatID>1</FormatID><FormatDescription>Book</FormatDescription><Title>Jump shot detectives</Title><Author>Dixon, Franklin W.</Author><CallNumber>j PB Fict Dix</CallNumber><CheckOutDate>2009-09-10T11:28:06.517</CheckOutDate><DueDate>2009-10-08T23:59:59</DueDate><RenewalCount>1</RenewalCount><RenewalLimit>1</RenewalLimit><AssignedBranchID>43</AssignedBranchID><AssignedBranchName>Glenville Branch - Schenectady County Public Libra</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free Library</LoaningBranchName></PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>2904429</ItemID><Barcode>0004300723956</Barcode><BibID>745948</BibID><FormatID>27</FormatID><FormatDescription>New / Popular Book</FormatDescription><Title>Antony and Cleopatra [large print.]</Title><Author>McCullough, Colleen, 1937-</Author><CallNumber>LT Fict McC</CallNumber><CheckOutDate>2009-10-02T11:12:27</CheckOutDate><DueDate>2009-10-16T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>1</RenewalLimit><AssignedBranchID>3</AssignedBranchID><AssignedBranchName>Amsterdam Free Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free Library</LoaningBranchName></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 Filter</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: <ul style="list-style-type: none"><li>• freetext</li><li>• librarydefined</li></ul>
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: <ul style="list-style-type: none"><li>• freetext</li><li>• librarydefined</li></ul>
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 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 message</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 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

<i>Name</i>	<i>Order</i>	<i>Required</i>	<i>Description/Notes</i>
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
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.
Phone3CarrierID	35		Phone 3 carrier ID. Database field not supported in 4.0 but included in the API to provide continuity with 4.1.
Enable SMS	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 <a href="#">"Cell Phone Field in Polaris 4.0"</a> on page 96.
Barcode	38		Patron barcode (if not auto-assigning)
EReceiptOptionID	39		Ereceipt option ID [4.1 only] 2 - Email Address 8 - TXT Messaging 100 - All

---

## *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*

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

<i>Name</i>	<i>Description/Notes</i>
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 supplied.</ErrorMessage><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
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>
```

---

## 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 valid.</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 " <a href="#">Material Format Types</a> " on page 12)
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://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/readinghistory?page=1&rowsperpage=5>

## 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 pecky 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 supplied</ErrorMessage><PatronReadingHistoryGetRows i:nil="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/patronsBoolean?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 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/aj3TJCD4CeYB8bNFvE5tdiNd1ME37wZt/search/patrons/Boolean?q=EM%3Deric.graham%40polarislibrary.com>

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+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*

<i>Access Point</i>	<i>Description</i>
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)
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*

<i>Access Point</i>	<i>Description</i>
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. Currently supported fields are the following:

- Reading List flag
- Email Format
- Delivery Option for Notices
- Primary Phone Number
- Phone Voice1
- Email Address

---

## 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/>
  <DeliveryOption/>
  <EmailAddress/>
  <PhoneVoice1/>
  <Password>
</PatronUpdateData>
```

---

## *XML Body Elements*

<i>Name</i>	<i>Required</i>	<i>Description/Notes</i>
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
DeliveryOption		Delivery options: 1- Mailing address 2- Email address 3- Telephone 1 4- Telephone 2 5- Telephone 3 6- FAX 7- EDI 8- TXT Messaging
Email Address		Email address
PhoneVoice1		Primary phone number
Password		Patron's password

---

## *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>
  <DeliveryOption>3</DeliveryOption>
  <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"><PAPIErrorCode>0</
PAPIErrorCode><ErrorMessage/></PatronUpdateResult>
```

---

## *Return - Failed*

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

# 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]
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"><PAPIErrorCode>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"

# 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"><PAPIErrorCode>-1</
PAPIErrorCode><ErrorMessage>Invalid type specified</ErrorMessage><SortOptionsRows i:nil="true"/></
SortOptionsGetResult>
```



# 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.

In this section:

- “Patron\_GetBarcodeFromID” on page 117
- “Synch\_AuthsByIDGet” on page 119
- “Synch\_BibsByIDGet” on page 122
- “Synch\_BibReplacementIDGet” on page 125
- “Synch\_GetAuthIDList” on page 128
- “Synch\_GetBibIDList” on page 130
- “Synch\_GetDeletedAuths” on page 132
- “Synch\_GetDeletedBibs” on page 134
- “Synch\_GetDeletedItems” on page 136
- “Synch\_GetDeletedPatrons” on page 138
- “Synch\_GetItemIDList” on page 140
- “Synch\_GetMaxAuthID” on page 142
- “Synch\_GetMaxBibID” on page 144
- “Synch\_GetMaxItemID” on page 146
- “Synch\_Get UpdatedAuths” on page 159
- “Synch\_GetUpdatedBibs” on page 161
- “Synch\_GetUpdatedItems” on page 163
- “Synch\_ItemsByBibIDGet” on page 166
- “Synch\_ItemByIDGet” on page 169

# Patron\_GetBarcodeFromID

This method derives a patron barcode from a patron ID. The return value includes both the patron ID and barcode.

---

## Important Notes

- 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: 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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/patron/barcode?patronid=15](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/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 Notes

- 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 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
GetAuthsByIDRow	Container for data
AuthorityRecordID	Authority record ID of the record
AuthorityRecordXML	An HTML Encoded representation of MARCXML data. <i>Important:</i> The character coding scheme is Unicode.

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/auths/MARCXML?authids=1,5,7,9,11](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/auths/MARCXML?authids=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

```

<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:xsi="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="005"&gt;20120404203605.0&lt;/marc:controlfield&gt;&lt;marc:controlfield tag="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="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 watercolor, 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 Notes*

- 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. <i>Important:</i> 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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/bibs/MARCXML?bibids=1,5,7,9,11](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/bibs/MARCXML?bibids=1,5,7,9,11)

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:/uessDsxsjU9iY2QJDNJbV+ 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>
        &lt;marc:collection xsi:schemaLocation="http://www.loc.gov/MARC21/slim http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:marc="http://www.loc.gov/MARC21/slim"&gt;&lt;marc:record&gt;&lt;marc:leader&gt;||||cam a22|||| a 4500&lt;/marc:leader&gt;&lt;marc:controlfield tag="001"&gt;16&lt;/marc:controlfield&gt;&lt;marc:controlfield tag="005"&gt;20091119153925.0&lt;/marc:controlfield&gt;&lt;marc:controlfield tag="008"&gt;770331s1977 nyua j 000 1 eng u&lt;/marc:controlfield&gt;&lt;marc:datafield tag="010" ind1=" " ind2=" "&gt;&lt;marc:subfield code="a"&gt; 77005747 &lt;/marc:subfield&gt;&lt;marc:subfield code="z"&gt;02894080&lt;/marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="020" ind1=" " ind2=" "&gt;&lt;marc:subfield code="a"&gt;0525262156&lt;/marc:subfield&gt;&lt;/
      &lt;/BibliographicRecordXML&gt;
    &lt;/GetBibsByIDRow&gt;
  &lt;/GetBibsByIDRows&gt;
&lt;/PAPIErrorResult&gt;
```



```

marc:datafield&gt;&lt;marc:datafield tag="020" ind1="0" ind2="0"&gt;&lt;marc:subfield
code="a"&gt;0525444491 :&lt;/marc:subfield&gt;&lt;marc:subfield code="c"&gt;$13.95&lt;/
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="035" ind1=" " ind2="
"&gt;&lt;marc:subfield code="a"&gt;AAA-0183&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="050" ind1="0" ind2="0"&gt;&lt;marc:subfield
code="a"&gt;PZ7.C36636&lt;/marc:subfield&gt;&lt;marc:subfield code="b"&gt;Bar&lt;/
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="082" ind1=" " ind2="
"&gt;&lt;marc:subfield code="a"&gt;[E]&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="092" ind1=" " ind2=" "&gt;&lt;marc:subfield
code="a"&gt;JP Fict&lt;/marc:subfield&gt;&lt;marc:subfield code="b"&gt;Cha&lt;/
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="099" ind1=" " ind2="
"&gt;&lt;marc:subfield code="a"&gt;JP Fict&lt;/marc:subfield&gt;&lt;marc:subfield
code="b"&gt;Cha&lt;/marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="100"
ind1="1" ind2=" "&gt;&lt;marc:subfield code="a"&gt;Chapman, Carol.&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="245" ind1="1" ind2="0"&gt;&lt;marc:subfield
code="a"&gt;Barney Bipple's magic dandelions /&lt;/marc:subfield&gt;&lt;marc:subfield
code="c"&gt;by Carol Chapman ; pictures by Steven Kellogg.&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="260" ind1=" " ind2=" "&gt;&lt;marc:subfield
code="a"&gt;New York :&lt;/marc:subfield&gt;&lt;marc:subfield code="b"&gt;Dutton,&lt;/
marc:subfield&gt;&lt;marc:subfield code="c"&gt;c1977.&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="300" ind1="0" ind2="0"&gt;&lt;marc:subfield
code="a"&gt;unp. :&lt;/marc:subfield&gt;&lt;marc:subfield code="b"&gt;col. ill. ;&lt;/
marc:subfield&gt;&lt;marc:subfield code="c"&gt;24 cm.&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="650" ind1=" " ind2="0"&gt;&lt;marc:subfield
code="a"&gt;Wishes&lt;/marc:subfield&gt;&lt;marc:subfield code="v"&gt;Fiction.&lt;/
marc:subfield&gt;&lt;/marc:datafield&gt;&lt;marc:datafield tag="700" ind1="1" ind2="
"&gt;&lt;marc:subfield code="a"&gt;Kellogg, Steven.&lt;/marc:subfield&gt;&lt;/
marc:datafield&gt;&lt;marc:datafield tag="999" ind1=" " ind2=" "&gt;&lt;marc:subfield
code="b"&gt;JP Fict Cha&lt;/marc:subfield&gt;&lt;marc:subfield code="c"&gt;0&lt;/
marc:subfield&gt;&lt;marc:subfield code="g"&gt;0&lt;/marc:subfield&gt;&lt;marc:subfield
code="h"&gt;0&lt;/marc:subfield&gt;&lt;marc:subfield code="i"&gt;2&lt;/
marc:subfield&gt;&lt;marc:subfield code="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 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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/synch/bibs/replacementids?startdate=2012-02-01](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/synch/bibs/replacementids?startdate=2012-02-01)

---

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+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 Notes

- 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={number of 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 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
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The authority Record ID

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/auths/idlist?startid=60000](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/auths/idlist?startid=60000)

OR

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/auths/idlist?startid=60000&nrecs=150](https://[HOSTNAME]/PAPIService/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 Notes

- 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 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
BibIDListRow	Container for data
BibliographicRecordID	The Bibliographic Record ID

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/bibs/idlist?startid=60000](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/bibs/idlist?startid=60000)

OR

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/bibs/idlist?startid=60000&nrecs=150](https://[HOSTNAME]/PAPIService/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:/uessDsxjU9iY2QJDNJbV+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 Notes

- 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?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
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The Authority Record ID

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/auths/deleted?deletedate=12/2/2011 13:00:00](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/auths/deleted?deletedate=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

```
<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 Notes

- 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?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
BibIDListRows	List of Bibliographic record IDs
BibIDListRow	Container for data
BibliographicRecordID	The Bibliographic Record ID

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/bibs/deleted?deletedate=12/2/2011 13:00:00](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/bibs/deleted?deletedate=12/2/2011 13:00:00)

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:/uessDsxsjU9iY2QJDNJbV+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 Notes

- 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]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/deleted?deletedate=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\_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 Notes

- This method provides a list of patron 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 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}/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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/patrons/deleted?deletedate=12/2/2011 13:00:00](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/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 Notes

- This method provides information for item records that have a “final” status. The items must be 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 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
ItemIDListRows	List of item record IDs
ItemIDListRow	Container for data
ItemRecordID	The item record ID

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/idlist?startid=60000](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/idlist?startid=60000)

OR

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/idlist?startid=60000&nrecs=150](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/idlist?startid=60000&nrecs=150)

## Header

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

Authorization: PWS polarisdev:/uessDsxsjU9iY2QJDNJbV+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 Notes

- This method provides information for item records that have a “final” status.
- 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/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]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/maxid

## 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\_GetMaxBibID

This method returns the maximum bibliographic record ID.

---

## Important Notes

- This method provides information for bibliographic records that have a “final” status.
- 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/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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/bibs/maxid](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/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 Notes

- This method provides information for item records that have a “final” status. The items must be attached to a bibliographic record that has a status of final.
- 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/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]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/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 Notes*

- 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](#)” on page 15) 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. <b>Important:</b> The character coding scheme is Unicode.

## Example

[https://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/subscriptions/SubscriptionXML?bibids=1,5,7,9,11](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/subscriptions/SubscriptionXML?bibids=1,5,7,9,11)

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
 Authorization: PWS polarisdev:/uessDsxsjU9iY2QJDNJbV+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>
        &lt;Record&gt;&lt;BibliographicRecordID&gt;597046&lt;BibliographicRecordID&gt;&lt;CopyRecords&gt;&lt;CopyRecord&gt;&lt;CopyID&gt;33&lt;/CopyID&gt;&lt;CollectionID&gt;75&lt;/CollectionID&gt;&lt;CollectionName&gt;&lt;Magazines&lt;/CollectionName&gt;&lt;CompletenessCode&gt;Incomplete&lt;/CompletenessCode&gt;&lt;OrganizationID&gt;101&lt;/OrganizationID&gt;&lt;OrganizationName&gt;Southern Adirondack Library System&lt;/OrganizationName&gt;&lt;CopyNumber&gt;1&lt;/CopyNumber&gt;&lt;DisplayInPAC&gt;1&lt;/DisplayInPAC&gt;&lt;RetentionDescription&gt;Other general retention policy&lt;/
```

RetentionDescription&gt;&lt;HoldingsStatement /&gt;&lt;HoldingsNote /&gt;&lt;RetentionNote /  
&gt;&lt;Notes&gt;&lt;Note&gt;&lt;Ordinal&gt;1&lt;/Ordinal&gt;&lt;PublicNote&gt;This is a  
serials holdings record publicnote&#xD&lt;/PublicNote&gt;&lt;/  
Note&gt;&lt;Note&gt;&lt;Ordinal&gt;2&lt;/Ordinal&gt;&lt;PublicNote&gt;This is a second Serials  
holdings record public note&lt;/PublicNote&gt;&lt;/Note&gt;&lt;/  
Notes&gt;&lt;PubPatterns&gt;&lt;PubPattern&gt;&lt;PubPatternID&gt;967&lt;/  
PubPatternID&gt;&lt;CategoryID&gt;1&lt;/CategoryID&gt;&lt;Category&gt;Basic Bibliographic  
Unit&lt;/Category&gt;&lt;EncodLevelH /&gt;&lt;TextualHoldings&gt;Textual Holdings note&lt;/  
TextualHoldings&gt;&lt;Issues&gt;&lt;Issue&gt;&lt;IssueID&gt;399&lt;/  
IssueID&gt;&lt;IssuePublicNote&gt;Issue Public Note&lt;/  
IssuePublicNote&gt;&lt;TitleOfSupIndex /&gt;&lt;IssueStatusId&gt;1&lt;/  
IssueStatusId&gt;&lt;IssueStatus&gt;Received&lt;/IssueStatus&gt;&lt;Retained&gt;1&lt;/  
Retained&gt;&lt;ItemRecordID&gt;0&lt;/ItemRecordID&gt;&lt;Barcode /  
&gt;&lt;AssignedBranchID&gt;0&lt;/AssignedBranchID&gt;&lt;AssignedBranch /  
&gt;&lt;AssignedCollectionID&gt;0&lt;/AssignedCollectionID&gt;&lt;Collection /  
&gt;&lt;Designation&gt;(Apr. 22 2009)&lt;/Designation&gt;&lt;CallNumber /  
&gt;&lt;VolumeNumber /&gt;&lt;ItemStatusID&gt;0&lt;/ItemStatusID&gt;&lt;ItemStatus /  
&gt;&lt;ShelfLocationID&gt;0&lt;/ShelfLocationID&gt;&lt;ShelfLocation /&gt;&lt;ItemPublicNote  
/&gt;&lt;/Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;400&lt;/IssueID&gt;&lt;IssuePublicNote /  
&gt;&lt;TitleOfSupIndex /&gt;&lt;IssueStatusId&gt;1&lt;/  
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Barcode&gt;&lt;AssignedBranchID&gt;101&lt;/  
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AssignedBranch&gt;&lt;AssignedCollectionID&gt;75&lt;/  
AssignedCollectionID&gt;&lt;Collection&gt;Magazines&lt;/  
Collection&gt;&lt;Designation&gt;(Apr. 22 2010)&lt;/Designation&gt;&lt;CallNumber&gt;Fict 3 4  
5&lt;/CallNumber&gt;&lt;VolumeNumber&gt;6&lt;/  
VolumeNumber&gt;&lt;ItemStatusID&gt;15&lt;/ItemStatusID&gt;&lt;ItemStatus&gt;In-  
Process&lt;/ItemStatus&gt;&lt;ShelfLocationID&gt;0&lt;/ShelfLocationID&gt;&lt;ShelfLocation /  
&gt;&lt;ItemPublicNote&gt;Public Note&lt;/ItemPublicNote&gt;&lt;/  
Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;401&lt;/IssueID&gt;&lt;IssuePublicNote /  
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IssueStatusId&gt;&lt;IssueStatus&gt;Received&lt;/IssueStatus&gt;&lt;Retained&gt;1&lt;/  
Retained&gt;&lt;ItemRecordID&gt;9347161&lt;/  
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Barcode&gt;&lt;AssignedBranchID&gt;101&lt;/  
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AssignedBranch&gt;&lt;AssignedCollectionID&gt;75&lt;/  
AssignedCollectionID&gt;&lt;Collection&gt;Magazines&lt;/  
Collection&gt;&lt;Designation&gt;(Apr. 22 2011)&lt;/Designation&gt;&lt;CallNumber&gt;Fict 3 4  
5&lt;/CallNumber&gt;&lt;VolumeNumber&gt;6&lt;/  
VolumeNumber&gt;&lt;ItemStatusID&gt;15&lt;/ItemStatusID&gt;&lt;ItemStatus&gt;In-  
Process&lt;/ItemStatus&gt;&lt;ShelfLocationID&gt;0&lt;/ShelfLocationID&gt;&lt;ShelfLocation /  
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Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;402&lt;/IssueID&gt;&lt;IssuePublicNote /  
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5&lt;/CallNumber&gt;&lt;VolumeNumber&gt;6&lt;/  
VolumeNumber&gt;&lt;ItemStatusID&gt;15&lt;/ItemStatusID&gt;&lt;ItemStatus&gt;In-  
Process&lt;/ItemStatus&gt;&lt;ShelfLocationID&gt;0&lt;/ShelfLocationID&gt;&lt;ShelfLocation /  
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&gt;&lt;TitleOfSupIndex /&gt;&lt;IssueStatusId&gt;1&lt;/  
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Barcode&gt;&lt;AssignedBranchID&gt;101&lt;/

```

AssignedBranchID&gt;&lt;AssignedBranch&gt;Southern Adirondack Library System&lt;/
AssignedBranch&gt;&lt;AssignedCollectionID&gt;75&lt;/
AssignedCollectionID&gt;&lt;Collection&gt;Magazines&lt;/
Collection&gt;&lt;Designation&gt;(Apr. 22 2014)&lt;/Designation&gt;&lt;CallNumber&gt;Fict 3 4
5&lt;/CallNumber&gt;&lt;VolumeNumber&gt;6&lt;/
VolumeNumber&gt;&lt;ItemStatusID&gt;15&lt;/ItemStatusID&gt;&lt;ItemStatus&gt;In-
Process&lt;/ItemStatus&gt;&lt;ShelfLocationID&gt;0&lt;/ShelfLocationID&gt;&lt;ShelfLocation /
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Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;403&lt;/IssueID&gt;&lt;IssuePublicNote /
&gt;&lt;TitleOfSupIndex /&gt;&lt;IssueStatusId&gt;2&lt;/
IssueStatusId&gt;&lt;IssueStatus&gt;Expected&lt;/IssueStatus&gt;&lt;ItemRecordID&gt;0&lt;/
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AssignedBranchID&gt;&lt;AssignedBranch /&gt;&lt;AssignedCollectionID&gt;0&lt;/
AssignedCollectionID&gt;&lt;Collection /&gt;&lt;Designation&gt;(Apr. 22 2013)&lt;/
Designation&gt;&lt;CallNumber /&gt;&lt;VolumeNumber /&gt;&lt;ItemStatusID&gt;0&lt;/
ItemStatusID&gt;&lt;ItemStatus /&gt;&lt;ShelfLocationID&gt;0&lt;/
ShelfLocationID&gt;&lt;ShelfLocation /&gt;&lt;ItemPublicNote /&gt;&lt;/
Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;405&lt;/IssueID&gt;&lt;IssuePublicNote /
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IssueStatusId&gt;&lt;IssueStatus&gt;Expected&lt;/IssueStatus&gt;&lt;ItemRecordID&gt;0&lt;/
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AssignedBranchID&gt;&lt;AssignedBranch /&gt;&lt;AssignedCollectionID&gt;0&lt;/
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Designation&gt;&lt;CallNumber /&gt;&lt;VolumeNumber /&gt;&lt;ItemStatusID&gt;0&lt;/
ItemStatusID&gt;&lt;ItemStatus /&gt;&lt;ShelfLocationID&gt;0&lt;/
ShelfLocationID&gt;&lt;ShelfLocation /&gt;&lt;ItemPublicNote /&gt;&lt;/
Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;406&lt;/IssueID&gt;&lt;IssuePublicNote /
&gt;&lt;TitleOfSupIndex /&gt;&lt;IssueStatusId&gt;2&lt;/
IssueStatusId&gt;&lt;IssueStatus&gt;Expected&lt;/IssueStatus&gt;&lt;ItemRecordID&gt;0&lt;/
ItemRecordID&gt;&lt;Barcode /&gt;&lt;AssignedBranchID&gt;0&lt;/
AssignedBranchID&gt;&lt;AssignedBranch /&gt;&lt;AssignedCollectionID&gt;0&lt;/
AssignedCollectionID&gt;&lt;Collection /&gt;&lt;Designation&gt;(Apr. 22 2016)&lt;/
Designation&gt;&lt;CallNumber /&gt;&lt;VolumeNumber /&gt;&lt;ItemStatusID&gt;0&lt;/
ItemStatusID&gt;&lt;ItemStatus /&gt;&lt;ShelfLocationID&gt;0&lt;/
ShelfLocationID&gt;&lt;ShelfLocation /&gt;&lt;ItemPublicNote /&gt;&lt;/
Issue&gt;&lt;Issue&gt;&lt;IssueID&gt;407&lt;/IssueID&gt;&lt;IssuePublicNote /
&gt;&lt;TitleOfSupIndex /&gt;&lt;IssueStatusId&gt;2&lt;/
IssueStatusId&gt;&lt;IssueStatus&gt;Expected&lt;/IssueStatus&gt;&lt;ItemRecordID&gt;0&lt;/
ItemRecordID&gt;&lt;Barcode /&gt;&lt;AssignedBranchID&gt;0&lt;/
AssignedBranchID&gt;&lt;AssignedBranch /&gt;&lt;AssignedCollectionID&gt;0&lt;/
AssignedCollectionID&gt;&lt;Collection /&gt;&lt;Designation&gt;(Apr. 22 2017)&lt;/
Designation&gt;&lt;CallNumber /&gt;&lt;VolumeNumber /&gt;&lt;ItemStatusID&gt;0&lt;/
ItemStatusID&gt;&lt;ItemStatus /&gt;&lt;ShelfLocationID&gt;0&lt;/
ShelfLocationID&gt;&lt;ShelfLocation /&gt;&lt;ItemPublicNote /&gt;&lt;/Issue&gt;&lt;/
Issues&gt;&lt;/PubPattern&gt;&lt;/PubPatterns&gt;&lt;/CopyRecord&gt;&lt;/
CopyRecords&gt;&lt;/Record&gt;

```

```
</SubscriptionXMLRecord>
```

```
</GetSubscriptionsByIDRow>
```

```
</GetSubscriptionsByIDRows>
```

```
</GetSubscriptionsByIDResult>
```

## XML Elements in the Subscription Data

Data Element	Description
Record	Top Level Node
BibliographicRecordID	The Bibliographic Record requested

<i>Data Element</i>	<i>Description</i>
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
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)

<i>Data Element</i>	<i>Description</i>
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)
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>
    </CopyRecord>
  </CopyRecords>
  <PubPatterns>
    <PubPattern>
      <PubPatternID>967</PubPatternID>
      <CategoryID>1</CategoryID>
      <Category>Basic Bibliographic Unit</Category>
      <EncodLevelH />
    </PubPattern>
  </PubPatterns>
</Record>

```

```

<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>
<IssueStatus>Received</IssueStatus>
<Retained>1</Retained>
<ItemRecordID>9347161</ItemRecordID>
<Barcode>hf893w4qfe</Barcode >
<AssignedBranchID>101</AssignedBranchID>
<AssignedBranch>Southern Adirondack Library System</AssignedBranch >
<AssignedCollectionID>75</AssignedCollectionID>
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<Designation>(Apr. 22 2011)</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>402</IssueID>
  <IssuePublicNote />
  <TitleOfSupIndex />
  <IssueStatusId>1</IssueStatusId>
  <IssueStatus>Received</IssueStatus>
  <Retained>1</Retained>
  <ItemRecordID>9347162</ItemRecordID>
  <Barcode>84309</Barcode >
  <AssignedBranchID>101</AssignedBranchID>
  <AssignedBranch>Southern Adirondack Library System</AssignedBranch >
  <AssignedCollectionID>75</AssignedCollectionID>
  <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>
  <ShelfLocation />
  <ItemPublicNote >Public Note</ItemPublicNote >
</Issue>
<Issue>
<IssueID>404</IssueID>
  <IssuePublicNote />
  <TitleOfSupIndex />
  <IssueStatusId>1</IssueStatusId>
  <IssueStatus>Received</IssueStatus>

```



```

    <Retained>1</Retained>
    <ItemRecordID>9347188</ItemRecordID>
    <Barcode>fgd</Barcode >
    <AssignedBranchID>101</AssignedBranchID>
    <AssignedBranch>Southern Adirondack Library System</AssignedBranch >
    <AssignedCollectionID>75</AssignedCollectionID>
    <Collection >Magazines< /Collection>
    <Designation>(Apr. 22 2014)</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>403</IssueID>
    <IssuePublicNote />
    <TitleOfSupIndex />
    <IssueStatusId>2</IssueStatusId>
    <IssueStatus>Expected</IssueStatus>
    <ItemRecordID>0</ItemRecordID>
    <Barcode />
    <AssignedBranchID>0</AssignedBranchID>
    <AssignedBranch/>
    <AssignedCollectionID>0</AssignedCollectionID>
    <Collection />
    <Designation>(Apr. 22 2013)</Designation>
    <CallNumber />
    <VolumeNumber />
    <ItemStatusID>0</ItemStatusID>
    <ItemStatus />
    <ShelfLocationID>0</ShelfLocationID>
    <ShelfLocation />
    <ItemPublicNote />
</Issue>
<Issue>
    <IssueID>405</IssueID>
    <IssuePublicNote />
    <TitleOfSupIndex />
    <IssueStatusId>2</IssueStatusId>
    <IssueStatus>Expected</IssueStatus>
    <ItemRecordID>0</ItemRecordID>
    <Barcode />
    <AssignedBranchID>0</AssignedBranchID>
    <AssignedBranch/>
    <AssignedCollectionID>0</AssignedCollectionID>

```

```

<Collection />
<Designation>(Apr. 22 2015)</Designation>
<CallNumber />
<VolumeNumber />
<ItemStatusID>0</ItemStatusID>
<ItemStatus />
<ShelfLocationID>0</ShelfLocationID>
<ShelfLocation />
<ItemPublicNote />
</Issue>
<Issue>
  <IssueID>406</IssueID>
  <IssuePublicNote />
  <TitleOfSupIndex />
  <IssueStatusId>2</IssueStatusId>
  <IssueStatus>Expected</IssueStatus>
  <ItemRecordID>0</ItemRecordID>
  <Barcode />
  <AssignedBranchID>0</AssignedBranchID>
  <AssignedBranch/>
  <AssignedCollectionID>0</AssignedCollectionID>
  <Collection />
  <Designation>(Apr. 22 2016)</Designation>
  <CallNumber />
  <VolumeNumber />
  <ItemStatusID>0</ItemStatusID>
  <ItemStatus />
  <ShelfLocationID>0</ShelfLocationID>
  <ShelfLocation />
  <ItemPublicNote />
</Issue>
<Issue>
  <IssueID>407</IssueID>
  <IssuePublicNote />
  <TitleOfSupIndex />
  <IssueStatusId>2</IssueStatusId>
  <IssueStatus>Expected</IssueStatus>
  <ItemRecordID>0</ItemRecordID>
  <Barcode />
  <AssignedBranchID>0</AssignedBranchID>
  <AssignedBranch/>
  <AssignedCollectionID>0</AssignedCollectionID>
  <Collection />
  <Designation>(Apr. 22 2017)</Designation>
  <CallNumber />
  <VolumeNumber />
  <ItemStatusID>0</ItemStatusID>
  <ItemStatus />

```

```
<ShelfLocationID>0</ShelfLocationID>  
<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 Notes

- 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: 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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/auths/updated?updatedate=12/2/2011 13:00:00](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/auths/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

```
<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 Notes

- 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 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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tLZPr/synch/bibs/updated?updatedate=12/2/2011 13:00:00](https://[HOSTNAME]/PAPIService/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:/uessDsxxjU9iY2QJDNJbV+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 Notes*

- 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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/updated?updatedate=12/2/2011 13:00:00](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/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

```
<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 Notes

- 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 29.
- A call to AuthenticateStaffUser is required before calling any protected methods.

---

## URI

/protected/{version}/{lang\_ID}/{app\_ID}/{org\_ID}/{access\_token}/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*

<i>Name</i>	<i>Description/Notes</i>
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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/bibid/1](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/items/bibid/1)

---

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+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 Notes

- 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 3084 - French

---

## HTTP Verb

GET

---

## Authorization required?

Yes

---

## Protected method?

Yes

*XML Elements Returned*

<i>Name</i>	<i>Description/Notes</i>
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://\[HOSTNAME\]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/item/572680](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/synch/item/572680)

---

## Header

Date: Thu, 8 Aug 2011 22:23:32 GMT  
Authorization: PWS polarisdev:/uessDsxsjU9iY2QJDNJbV+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.

In this section:

- [“SynchTasksCheckout”](#) on page 173
- [“SynchTasksCheckin”](#) on page 176
- [“SynchTasksExpireCopy”](#) on page 179
- [“SynchTasksNotifyPatron”](#) on page 181
- [“SynchTasksNotifyPatronItem”](#) on page 183
- [“SynchTasksPullMARCDATA”](#) on page 185

# 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/XMLSchemainstance"><
  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"><PAPIErrorCode>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 libraries e-Content 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*

```
<SynchTaskExpireCopyData>
  <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"><PAPIErrorCode>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"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Failure - general</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"><PAPIErrorCode>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"><PAPIErrorCode>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>
```

# SynchTasksPullMARCData

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/pullMARCData

## 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.

<SynchTasksPullMARCData>

<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

</SynchTasksPullMARCData>

---

## *HTTP Verb*

PUT

---

## *Authorization required?*

Yes

---

## *Example*

http://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/[Access token]/synch/tasks/pullMARCData

---

## *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*

```
<SynchTasksPullMARCData>
  <VendorID>3M Cloud Library</VendorID>
  <VendorContractID>12345</VendorContractID>
  <UniqueRecordID>djhs8</UniqueRecordID>
</SynchTasksPullMARCData>
```

---

## *Return - Success*

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

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

---

## *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

```
<SynchTasksPullMARCResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Failure - general</ErrorMessage></SynchTasksPullMARCResult>
```