

Polaris API Guide

Polaris v.5.0.605

©2015



World Headquarters
5850 Shellmound Way
Emeryville, CA 94608
+1.510.655.6200

Eastern US - New York
103 Commerce Blvd. Suite A
Liverpool, NY 13088
Toll Free: 1.877.857.1978

Contents

Contents	i
Polaris API - Overview	1
Revision History	2
Setup	3
PAPI Web Service Authorization	4
HTTP Method	4
PAPI Web Service Authorization - Sample Code	6
Web.config - AuthenticationLevel	8
Web.config - appSettings Keys	8
SSL in Polaris 4.0.676 and later; 4.1.442 and later	10
Support for XML and JSON Data Exchange Formats	10
HTTP Request Header	11
JSON and DateTime Fields	11
JSON - GetBib	11
JSON - HoldRequestCreate	12
JSON - ItemRenewAllForPatron	12
JSON - PatronAccountPay	12
Date Format when using JSON	12
XML Elements	13
Examples of SHA1 Encoding	13
PAPI Protected Methods	13
Using Protected Methods	13
Using Public Methods as an Authenticated Staff User	14
SSL Requirements for Protected Methods	14
Development Tools - Fiddler2 (Freeware)	15
PAPI Error Codes	16
Application IDs	20
Material Format Types	22

General URI Parameters	24
AuthenticateStaffUser	25
Process Overview	25
URI	25
HTTP Verb	25
Request Body XML	26
XML Body Elements	26
Authorization Required?	26
XML Elements Returned	26
Example	27
Header	27
Body	27
Return	27
BibGet	28
URI	28
HTTP Verb	28
Authorization Required?	28
XML Elements Returned	28
Remarks	31
Example	31
Return - Success	31
Return - Failed	32
BibSearch	33
URI	33
{qualifierName}	33
{terms}	33
{ccl}	33
Parameters	33
HTTP Verb	35
Authorization required?	35

Example	36
Return - Success	36
Return - Failed	37
Notes	37
HeadingsSearch	38
URI	38
URI Parameters	38
Query String Parameters	38
HTTP Verb	39
Authorization required?	39
XML Elements Returned	40
Example	41
Return - Success	41
Return - Failed	42
CollectionsGet	43
URI	43
URI Parameters	43
HTTP Verb	43
Authorization required?	43
Elements Returned	43
Example	44
BibHoldingsGet	45
URI	45
Input Parameters	45
HTTP Verb	45
Authorization required?	45
XML Elements Returned	45
Example	47
Return - Success	47
Return - Failed	48

HoldRequestCancel	49
URI	49
URI Parameters	49
Query String Parameters	49
HTTP Verb	49
Authorization required?	49
Example	50
Header	50
Return - Success	50
Return - Failed	50
HoldRequestCancelAllForPatron	51
URI	51
URI Parameters	51
Query String Parameters	51
HTTP Verb	51
Authorization required?	51
XML Elements Returned	52
Example	52
Header	52
Return - Success	52
Return - Failed	52
HoldRequestCreate	54
Notes - Placing Hold Requests Against Serial Publications	54
URI	54
Request Body XML	54
XML Body Elements	55
HTTP Verb	56
Authorization required?	56
XML Elements Returned	56
Sample Conditional Questions	57

Example	57
Header	58
Body	58
Return - Success	58
Return - Failed	59
HoldRequestGetList	60
URI	60
Parameters	60
Request Body XML	61
XML Body Elements	61
HTTP Verb	61
Authorization required?	61
Protected method?	61
XML Elements Returned	61
Example	64
Header	64
Body	64
Return	64
HoldRequestReply	67
URI	67
URI Parameters	67
Request Body XML	67
XML Body Elements	68
HTTP Verb	68
Authorization required?	68
XML Elements Returned	68
Sample Conditional Questions	69
Example (issue reply to previous create)	70
Header	70
Body	70

Return - Success	71
Return - Failed	71
HoldRequestSuspend	72
URI	72
URI Parameters	72
Request Body XML	72
XML Body Elements	72
HTTP Verb	73
Authorization required?	73
XML Elements Returned	73
Example	73
Header	73
Body	74
Return - Success	74
Request - Failed	74
HoldRequestSuspendAllForPatron	75
URI	75
URI Parameters	75
Request Body XML	75
XML Body Elements	75
HTTP Verb	76
Authorization required?	76
XML Elements Returned	76
Example	77
Header	77
Body	77
Return - Success	77
Return - Failed	77
ItemRenew	79
URI	79

URI Parameters	79
Request Body XML	79
XML Body Elements	79
HTTP Verb	80
Authorization required?	80
XML Elements Returned	80
Example	81
Header	81
Body	81
Return - Success	81
Return - Failed	82
ItemRenewAllForPatron	83
URI	83
URI Parameters	83
Request Body XML	83
XML Body Elements	83
HTTP Verb	84
Authorization required?	84
XML Elements Returned	84
Example	85
Header	85
Body	85
Return - Success	85
Return - Failed	86
ItemUpdateBarcode	87
URI	87
URI Parameters	87
Request Body XML	87
XML Body Elements	87
HTTP Verb	88

Authorization required?	88
XML Elements Returned	88
Example	88
Header	89
Body	89
Return	89
LimitFiltersGet	90
URI	90
HTTP Verb	90
Authorization required?	90
XML Elements Returned	90
Example	90
Header	90
Return - Success	91
Return - Failed	91
NotificationUpdate	92
URI	92
HTTP Verb	92
Notification Type ID	92
Request Body XML	93
XML Body Elements	93
Authorization Required?	95
Protected method?	95
Return Codes	95
XML Elements Returned	96
Example	96
Header	96
Body	97
Return	97
OrganizationsGet	98

URI	98
HTTP Verb	98
Authorization required?	98
XML Elements Returned	98
Example	99
Header	99
Return - Success	99
Return - Failed	99
PatronAccountGet	100
URI	100
URI Parameters	100
HTTP Verb	100
Authorization required?	100
XML Elements Returned	100
Example	102
Header	102
Return - Success	102
Return - Failed	103
PatronAccountPay	104
URI	104
URI Parameters	104
Query String Parameters	104
XML Body Elements	104
HTTP Verb	105
Authorization required?	105
Protected method?	105
Example	105
Header	105
Body	106
Return - Success	106

Return - Failed	106
PatronAccountPayAll	107
URI	107
URI Parameters	107
Query String Parameters	107
HTTP Verb	107
Authorization required?	108
Protected method?	108
Example	108
Header	108
Body	108
Return - Success	108
Return - Failed	108
PatronAccountVoid	110
URI	110
URI Parameters	110
Query String Parameters	110
HTTP Verb	110
Authorization required?	111
Protected method?	111
Example	111
Header	111
Return - Success	111
Return - Failed	111
PatronAccountCreateCredit	112
URI	112
URI Parameters	112
Query String Parameters	112
HTTP Verb	112
Authorization required?	112

Protected method?	112
Example	113
Header	113
Body	113
Return - Success	113
Return - Failed:	113
XML Body Elements	114
PatronAccountDepositCredit	115
URI	115
URI Parameters	115
Query String Parameters	115
XML Body Elements	115
HTTP Verb	116
Authorization required?	116
Protected method?	116
Example	116
Header	116
Body	116
Return - Success	117
Return - Failed:	117
PatronAccountRefundCredit	118
URI	118
URI Parameters	118
Query String Parameters	118
XML Body Elements	118
HTTP Verb	119
Authorization required?	119
Protected method?	119
Example	119
Header	119

Body	119
Return - Success	120
Return - Failed:	120
PatronAccountCreateTitleList	121
URI	121
URI Parameters	121
HTTP Verb	121
Authorization required?	121
Request Body XML	121
XML Body Elements	122
Example	122
Header	122
Body	122
Return - Success	122
Return - Failed	122
PatronAccountGetTitleLists	124
URI	124
URI Parameters	124
HTTP Verb	124
Authorization required?	124
Example	124
Header	124
Return - Success	124
Return - Failed	125
PatronAccountDeleteTitleList	126
URI	126
URI Parameters	126
HTTP Verb	126
Authorization required?	126
Example	126

Header	126
Return - Success	127
Return - Failed	127
PatronTitleListAddTitle	128
URI	128
URI Parameters	128
HTTP Verb	128
Authorization required?	128
Request Body XML	128
XML Body Elements	129
Example	129
Header	129
Body	130
Return - Success	130
Return - Failed	130
PatronTitleListCopyTitle	131
URI	131
URI Parameters	131
HTTP Verb	131
Authorization required?	131
Request Body XML	131
XML Body Elements	132
Example	132
Header	132
Return - Success	132
Return - Failed	132
PatronTitleListCopyAllTitles	134
URI	134
URI Parameters	134
HTTP Verb	134

Authorization required?	134
Request Body XML	134
XML Body Elements	135
Example	135
Header	135
Body	135
Return - Success	135
Return - Failed	136
PatronTitleListGetTitles	137
URI	137
URI Parameters	137
HTTP Verb	137
Authorization required?	137
Examples	137
Header	138
Return - Success	138
Return - Failed	138
PatronTitleListMoveTitle	139
URI	139
URI Parameters	139
HTTP Verb	139
Authorization required?	139
Request Body XML	139
XML Body Elements	140
Examples	140
Header	140
Return - Success	140
Return - Failed	141
PatronTitleListDeleteTitle	142
URI	142

URI Parameters	142
HTTP Verb	142
Authorization required?	142
Example	142
Header	142
Return - Success	143
Return - Failed	143
PatronTitleListDeleteAllTitles	144
URI	144
URI Parameters	144
HTTP Verb	144
Authorization required?	144
Example	144
Header	144
Return - Success	145
Return - Failed	145
PatronBasicDataGet	146
URI	146
URI Parameters	146
HTTP Verb	146
Authorization required?	146
XML Elements Returned	146
Example	149
Header	149
Return - Success	149
Return - Failed	149
PatronCirculateBlocksGet	150
URI	150
URI Parameters	150
Query String Parameters	150

HTTP Verb	151
Authorization required?	151
XML Elements Returned	151
Example	152
Header	152
Return - Success	152
Return - Failed	152
CreatePatronBlocks	153
PAPI Error Codes Unique to This Method	153
URI	153
HTTP Verb	153
Authorization required?	153
Protected?	153
String Query Values	153
Request Body XML	154
XML Body Elements	154
XML Elements Returned	155
Example	155
Header	155
Body	156
Return	156
PatronHoldRequestsGet	157
URI	157
URI Parameters	157
HTTP Verb	157
Authorization required?	157
XML Elements Returned	158
Example	159
Header	159
Return - Success	159

Return - Failed	160
PatronItemsOutGet	161
URI	161
URI Parameters	161
HTTP Verb	161
Authorization required?	161
XML Elements Returned	161
Example	163
Header	163
Return - Success	163
Return - Failed	166
PatronMessagesGet	167
URI	167
URI Parameters	167
Query String Parameters	167
HTTP Verb	167
Authorization required?	167
XML Elements Returned	167
Examples	168
PatronMessageUpdateStatus	169
URI	169
URI Parameters	169
HTTP Verb	169
Authorization required?	169
Examples	169
PatronMessageDelete	170
URI	170
URI Parameters	170
HTTP Verb	170
Authorization required?	170

Examples	170
PatronPreferencesGet	171
URI	171
URI Parameters	171
HTTP Verb	171
Authorization required?	171
XML Elements Returned	171
Example	172
Header	172
Return - Success	172
Return - Failed	173
PatronReadingHistoryClear	174
URI	174
URI Parameters	174
HTTP Verb	174
Authorization required?	174
Example	174
Header	174
Return - Success	174
Return - Failed	175
PatronRegistrationCreate	176
URI	176
XML Body Elements	176
Cell Phone Field in Polaris 4.0	179
HTTP Verb	179
Authorization required?	180
XML Elements Returned	180
Example	180
Header	180
Body	180

Return - Success	181
Return - Failed	181
Patron_RenewBlocksGet	182
URI	182
HTTP Verb	182
Authorization required?	182
Protected?	182
Result - Example 1	182
Result - Example 2	182
PatronSavedSearchesGet	184
URI	184
URI Parameters	184
HTTP Verb	184
Authorization required?	184
XML Elements Returned	184
Example	185
Header	185
Return - Success	185
Return - Failed	186
PatronReadingHistoryGet	187
URI	187
URI Parameters	187
Query String Parameters	187
HTTP Verb	188
Authorization required?	188
XML Elements Returned	188
Example	188
Header	189
Return- Success	189
Return - Failed	190

PatronSearch	191
URI	191
HTTP Verb	191
Authorization required?	191
Protected?	191
String Query Values	191
XML Elements Returned	192
Example	192
Header	193
Body: N/A	193
Return	193
Patron Access Points	193
Patron Sort Keys	194
Additional CCL Examples	195
PatronUpdate	196
URI	196
URI Parameters	196
Request Body XML	196
XML Body Elements	197
HTTP Verb	198
Authorization required?	198
Example	198
Header	198
Body	198
Return - Success	198
Return - Failed	199
PatronUpdateUserName	200
URI	200
URI Parameters	200
HTTP Verb	200

Authorization required?	200
XML Elements Returned	200
Example	201
Header	201
Return - Success	201
PAPI Error Codes Unique to This Method	201
PatronValidate	203
URI	203
URI Parameters	203
HTTP Verb	203
Authorization required?	203
XML Elements Returned	203
Example	204
Header	204
Return- Success	204
Return - Failed	204
RemoteStorageItemsGet	205
URI	205
URI Parameters	205
Request Body XML	205
XML Body Elements	206
HTTP Verb	206
Authorization required?	206
Protected method?	206
XML Elements Returned	206
Example	207
Header	207
Body	207
Return	207
SortOptionsGet	209

URI	209
HTTP Verb	209
Authorization required?	209
XML Elements Returned	209
Example	209
Header	209
Return - Success	209
Return - Failed	210
UpdateRequestStatus	211
PAPI Error Codes Unique to This Method	211
URI	211
URI Parameters	211
HTTP Verb	212
Authorization required?	212
Protected method	212
XML Elements Returned	212
Header	213
Body	213
Return	213
Locate Example	213
Return Example	213
Ask Me Later Example	213
Deny Example	213
Synch Methods for 3rd Party Discovery Interfaces	215
Patron_GetBarcodeFromID	216
URI	216
URI Parameters	216
HTTP Verb	217
Authorization required?	217
Protected method?	217

Query String Parameters	217
XML Elements Returned	217
Example	218
Header	218
Return	218
Synch_AuthsByIDGet	219
URI/	219
URI Parameters	219
HTTP Verb	220
Authorization required?	220
Protected method?	220
Query String Parameters	220
XML Elements Returned	220
Example	221
Header	221
Return	221
Synch_BibsByIDGet	223
Important	223
URI/	223
HTTP Verb	223
Authorization required?	223
Protected method?	223
Query String Parameters	223
XML Elements Returned	224
Example	224
Header	224
Return	225
Synch_BibReplacementIDGet	227
URI	227
URI Parameters	227

HTTP Verb	228
Query String Parameters	228
Authorization required?	228
Protected method?	228
XML Elements Returned	228
Example	229
Header	229
Return	229
Synch_GetAuthIDList	231
URI/	231
URI Parameters	231
HTTP Verb	232
Authorization required?	232
Protected method?	232
Query String Parameters	232
XML Elements Returned	232
Example	233
Header	233
Return	233
Synch_GetBibIDList	234
URI/	234
URI Parameters	234
HTTP Verb	235
Authorization required?	235
Protected method?	235
Query String Parameters	235
XML Elements Returned	235
Example	235
Header	236
Return	236

Synch_GetDeletedAuths	237
URI	237
URI Parameters	237
HTTP Verb	238
Authorization required?	238
Protected method?	238
Query String Parameters	238
XML Elements Returned	238
Example	238
Header	239
Return	239
Synch_GetDeletedBibs	240
Important	240
URI	240
URI Parameters	240
HTTP Verb	241
Authorization required?	241
Protected method?	241
Query String Parameters	241
XML Elements Returned	241
Example	241
Header	242
Return	242
Synch_GetDeletedItems	243
URI	243
URI Parameters	243
HTTP Verb	244
Authorization required?	244
Protected method?	244
Query String Parameters	244

XML Elements Returned	244
Example	244
Header	245
Return	245
Synch_GetDeletedPatrons	246
URI	246
URI Parameters	246
HTTP Verb	246
Authorization required?	247
Protected method?	247
Query String Parameters	247
XML Elements Returned	247
Example	247
Header	248
Return	248
Synch_GetItemIDList	249
URI	249
URI Parameters	249
HTTP Verb	250
Authorization required?	250
Protected method?	250
Query String Parameters	250
XML Elements Returned	250
Example	250
Header	251
Return	251
Synch_GetMaxAuthID	252
URI	252
URI Parameters	252
HTTP Verb	252

Authorization required?	253
Protected method?	253
XML Elements Returned	253
Example	253
Header	253
Return	253
Synch_GetMaxBibID	255
URI	255
URI Parameters	255
HTTP Verb	255
Authorization required?	256
Protected method?	256
XML Elements Returned	256
Example	256
Header	256
Return	256
Synch_GetMaxItemID	258
URI	258
URI Parameters	258
HTTP Verb	258
Authorization required?	259
Protected method?	259
XML Elements Returned	259
Example	259
Header	259
Return	259
Synch_GetSubscriptionsByID	260
URI	260
HTTP Verb	260
Authorization required?	260

Protected method?	260
Query String Values	260
Request Body XML	261
XML Body Elements	261
XML Elements Returned	261
Example	261
Header	261
Body	261
Return	262
XML Elements in the Subscription Data	265
Example: Subscription XML After HTML Decoding	269
Synch_GetUpdatedAuths	274
Important	274
URI	275
URI Parameters	275
HTTP Verb	275
Authorization required?	275
Protected method?	275
Query String Parameters	275
XML Elements Returned	276
Example	276
Header	276
Return	276
Synch_GetUpdatedBibs	277
Important	277
URI	277
URI Parameters	277
HTTP Verb	278
Authorization required?	278
Protected method?	278

Query String Parameters	278
XML Elements Returned	278
Example	279
Header	279
Return	279
Synch_GetUpdatedItems	280
Important	280
URI	281
URI Parameters	282
HTTP Verb	282
Authorization required?	282
Protected method?	282
Query String Parameters	282
XML Elements Returned	283
Example	283
Header	283
Return	283
Synch_ItemsByBibIDGet	284
Important	284
URI	284
URI Parameters	284
HTTP Verb	285
Authorization required?	285
Protected method?	285
XML Elements Returned	285
Example	287
Header	287
Return	287
Synch_ItemByIDGet	289
Important	289

URI	289
URI Parameters	289
HTTP Verb	290
Authorization required?	290
Protected method?	290
XML Elements Returned	290
Example	291
Header	292
Return	292
Synch Methods for 3rd Party Circulation	294
SynchTasksCheckout	294
URI	294
URI Parameters	294
Query String Parameters	295
Request Body XML	295
HTTP Verb	296
Authorization required?	296
Example	296
Header	296
Body	296
Return - Success	296
Return - Failed	296
SynchTasksCheckin	297
URI	297
URI Parameters	297
Query String Parameters	298
Request Body XML	298
HTTP Verb	298
Authorization required?	298
Example	298

Header	299
Body	299
Return - Success	299
Return - Failed	299
SynchTasksExpireCopy	299
URI	300
URI Parameters	300
Query String Parameters	300
Request Body XML	301
HTTP Verb	301
Authorization required?	301
Example	301
Header	301
Body	302
Return - Success	302
Return - Failed	302
SynchTasksNotifyPatron	302
URI	302
URI Parameters	302
Query String Parameters	303
Request Body XML	303
HTTP Verb	304
Authorization required?	304
Example	304
Header	304
Body	304
Return - Success	304
Return - Failed	305
SynchTasksNotifyPatronItem	305
URI	305

URI Parameters	305
Query String Parameters	306
Request Body XML	306
HTTP Verb	306
Authorization required?	306
Example	307
Header	307
Body	307
Return - Success	307
Return - Failed	307
SynchTasksPullMARCDData	308
URI	308
URI Parameters	308
Query String Parameters	308
Request Body XML	309
HTTP Verb	309
Authorization required?	309
Example	309
Header	309
Body	310
Return - Success	310
Return - Failed	310

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.

See Also:

- "Revision History" on the next page
- "Setup" on page 3
- "PAPI Web Service Authorization" on page 4
- "HTTP Method" on page 4
- "PAPI Web Service Authorization - Sample Code" on page 6
- "Web.config - AuthenticationLevel" on page 8
- "SSL in Polaris 4.0.676 and later; 4.1.442 and later" on page 10
- "HTTP Request Header" on page 11
- "PAPI Protected Methods" on page 13
- "Using Public Methods as an Authenticated Staff User" on page 14
- "PAPI Error Codes" on page 16
- "Application IDs" on page 20
- "Material Format Types" on page 22
- "General URI Parameters" on page 24

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 10.
- **Notification Update for telephone notice processing** - Polaris 4.0.568 and later. See "NotificationUpdate" on page 92.
- **All protected method calls now require SSL** - See "SSL in Polaris 4.0.676 and later; 4.1.442 and later" on page 10, and "PAPI Protected Methods" on page 13.
- **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 33.
- **Retrieve a list of collections** - Polaris 4.0.688 and later; Polaris 4.1.455 and later. See "CollectionsGet" on page 43.
- **PatronBasicDataGet returns additional fields** - Polaris 4.0.683 and later; Polaris 4.1.450 and later. See "PatronBasicDataGet" on page 146.
- **Retrieve, update, and delete patron messages** - Polaris 4.0.687 and later; Polaris 4.1.454 and later. See "PatronMessagesGet" on page 167, "PatronMessageUpdateStatus" on page 169, and "PatronMessageDelete" on page 170.
- **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 176.
- **Synch methods for 3rd party discovery interfaces** - Polaris 4.1.488 and later. See "Synch Methods for 3rd Party Discovery Interfaces" on page 215. Additional method Synch_GetSubscriptionsByID added Polaris 4.1.720 and later. See "Synch_GetSubscriptionsByID" on page 260. 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 294. **Expire Copy** synch method added Polaris 4.1.769 and later. See "SynchTasksExpireCopy" on page 299.
- **New error codes for invalid password length and format** - Polaris 4.1. See "PAPI Error Codes" on page 16.
- **Changes to PatronUpdate method** - Polaris 4.1.542 and later. See "PatronUpdate" on page 196.
- **Patron renewal blocks** - Polaris 4.1.679 and later. See "Patron_RenewBlocksGet" on page 182.
- **Patron validate/circ blocks** - For PAPI consumers. Polaris 4.1.729. See "PatronCirculateBlocksGet" on page 150.
- **Changes to SynchTasksExpireCopyData** (synch methods for 3rd party circulation) - Polaris 4.1.803 and later. See "SynchTasksExpireCopy" on page 299.
- **Methods to search for patrons via CCL and place blocks on patron records** - Polaris 4.1.306.2 and later. See "PatronSearch" on page 191 and "CreatePatronBlocks" on page 153.
- **Additional XML elements returned for PatronsItemsOutGet** - Polaris 4.1R2.1108 and later. Added ISBN, ISSN, OCLC, and UPC. See "PatronItemsOutGet" on page 161.
- **Method to apply payments to all patron charges, paying off the oldest charges first.** Polaris 4.1R2.1140. See "PatronAccountPayAll" on page 107.
- **Method to return a list of requests.** Polaris 4.1R2.1140. See "HoldRequestGetList" on page 60.

- **Method to update the item barcode.** Polaris 4.1R2.1140. See "ItemUpdateBarcode" on page 87.
- **Method to return a list of new, modified, and deleted items.** Polaris 4.1R2.1140. See "RemoteStorageItemsGet" on page 205.
- **Method to void a patron payment.** Polaris 4.1R2.1192. See "PatronAccountVoid" on page 110.
- **Method to update request status.** Polaris 4.1R2.1199. See "UpdateRequestStatus" on page 211.
- **Method to update the patron username.** Polaris 4.1R2.1262. See "PatronUpdateUserName" on page 200.
- **Method to create a patron account credit.** Polaris 4.1R2.1396. See "PatronAccountCreateCredit" on page 112.
- **Method to deposit a patron account credit.** Polaris 4.1R2.1396. See "PatronAccountDepositCredit" on page 115.
- **Method to refund a patron account credit.** Polaris 4.1R2.1396. See "PatronAccountRefundCredit" on page 118.
- **New error code when canceling a hold request** - Polaris 5.0.349. See "PAPI Error Codes" on page 16.
- **New error codes to support 3M Cloud eContent** - Polaris 5.0.555. See "PAPI Error Codes" on page 16.
- **Method to create a title list in a patron's account** - Polaris 5.0.574. See "PatronAccountCreateTitleList" on page 121
- **Method to get a list of the title lists in a patron's account** - Polaris 5.0.574. See "PatronAccountGetTitleLists" on page 124
- **Method to delete a title list from the patron's account** - Polaris 5.0.574. See "PatronAccountDeleteTitleList" on page 126
- **Method to add a title to a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListAddTitle" on page 128.
- **Method to copy a title from one title list to another in a patron's account** - Polaris 5.0.574. See "PatronTitleListCopyTitle" on page 131.
- **Method to remove a title from a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListDeleteTitle" on page 142.
- **Method to get titles from a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListGetTitles" on page 137.
- **Method to remove all titles from a title list in a patron's account** - Polaris 5.0.574. See "PatronTitleListDeleteAllTitles" on page 144.
- **Method to move a title from one title list to another in a patron's account** - Polaris 5.0.574. See "PatronTitleListMoveTitle" on page 139.
- **Method to copy all titles in a list in the patron's account** - Polaris 5.0.574. See "PatronTitleListCopyAllTitles" on page 134.

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

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

SSL in Polaris 4.0.676 and later; 4.1.442 and later

All protected method calls require SSL using HTTPS. This is to ensure that all sensitive data such as domain account information is encrypted. If a protected method is called without an HTTPS connection, a “403 - Forbidden” error will be returned. For more information, see “SSL Requirements for Protected Methods” on page 14.

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","Alterna-
te":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", "Alte-
rnate": false}, {"ElementID": 7, "Occurrence": 1, "Label": "System
Availability:", "Value": "4", "Alternate": false},
{"ElementID": 8, "Occurrence": 1, "Label": "Current
Holds:", "Value": "0", "Alternate": false},
{"ElementID": 13, "Occurrence": 1, "Label": "Call Number:", "Value": "J Fict
Gra", "Alternate": false}, {"ElementID": 16, "Occurrence": 1, "Label": "System
Items Available:", "Value": "3", "Alternate": false}}}
```

JSON - HoldRequestCreate

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

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

JSON - ItemRenewAllForPatron

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

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

JSON - PatronAccountPay

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

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

Date Format when using JSON

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

"VDate(1295352000000)V"

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

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

XML Elements

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

Examples of SHA1 Encoding

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

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

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

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

PAPI Protected Methods

The PAPI Service supports protected methods. These are functions that might be performed by a staff member and not a patron. The staff member must authenticate with the PAPI service using the AuthenticateStaffUser method (see "AuthenticateStaffUser" on page 25) 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**

HTTP Verb: GET

Authorization Required: Yes

Header:

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

Authorization: PWS polarisdev:ZasTURsRdlEHeKgda1MGXROUxTI=

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.

Code	Reason
General	
Any positive number	Represents either the count of rows returned or the number of rows affected by the procedure. See individual procedure definitions for details.
0	Success
-1	FAILURE - General
-2	Multiple errors. See returned rowset for list of errors.
-3	PARTIAL FAILURE - Multiple errors (but some items succeeded). See returned rowset for list of errors.
-4	FAILURE - ERMS error
Bibliographic Errors - [1000-1999]	
-1000	Invalid BibliographicRecordID specified
Item/Holdings Errors - [2000-2999]	
-2000	Invalid ItemRecordID specified
-2001	Invalid barcode specified
-2002	Duplicate barcode specified
Patron Errors - [3000-3999]	
-3000	Invalid PatronID specified
-3500	Country code does not exist
-3501	Patron branch is not defined
-3502	Patron branch is not a valid branch

Code	Reason
-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

Code	Reason
	(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
-3528	Invalid PhoneVoice1 Value
-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
-3606	Payment transaction does not exist
-3607	Payment transaction for this patron does not exist
-3608	Payment transaction cannot be voided because another action taken on payment
-3610	Payment amount is more than the sum of the charges
<i>Hold Request Errors - [4000-4999]</i>	
-4000	Invalid application ID supplied
-4001	Invalid patron ID supplied

Code	Reason
-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
-4203	Cancel prevented for hold requests with status of Held.
-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

Code	Reason
-4407	Request status invalid for this process
-4408	Invalid request status change requested
-4409	Invalid hold user not supplied reason
-4410	This is the only item available for hold
-4411	No other items at other branches are available to fill this hold
Organization Errors - [5000-5999]	
-5000	Invalid OrganizationID specified
Circulation Errors - [6000-6999]	
-6000	Invalid loan unit supplied
-6001	ItemCheckout record does not exist
Course Reserve Errors - [7000-7999]	
-7000	Invalid CourseReserveID specified
PolarisUser Errors - [8000-8999]	
-8000	Invalid PolarisUserID specified
Workstation Errors - [9000-9999]	
-9000	Invalid WorkstationID specified

Application IDs

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

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

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

ID	Format Description
	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

Name	Required	Description/Notes
app-ID	Yes	Calling application (product) ID (see "Application IDs" on page 20)
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 13.

Process Overview

IsAuthorizedPAPIPolarisUser

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

IsStaffAuthenticationLocked

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

Authenticate user against the domain

If failed:

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

If success:

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

URI

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

HTTP Verb

POST

Request Body XML

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

XML Body Elements

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

Authorization Required?

Yes

XML Elements Returned

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

Name	Description/Notes
AuthExpDate	Expiration date of provided access token

Example

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

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

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

Return

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

BibGet

Returns bibliographic information for a specified record.

URI

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

HTTP Verb

GET

Authorization Required?

Yes, if authentication level set to ALL

XML Elements Returned

Name	Description/Notes
ElementID	Is the element identifier. Possible values include: 2 - Publisher 3 - Description 5 - Edition 6 - ISBN 7 - System Items Total 8 - Current Holds 9 - Summary 10 - Local Items Total 11 - Control Number 13 - Call Number

Name	Description/Notes
	15 - Local Items Available
	16 - System Items Available
	17 - Format
	18 - Author
	19 - Series
	20 - Subject
	21 - Added Author
	22 - Added Title
	23 - LCCN
	24 - ISSN
	25 - Other Number
	27 - Genre
	28 - Notes
	29 - Contents
	30 - Publisher Number
	33 - Web Link
	34 - Uniform Title
	35 - Title
	36 - Volume
	37 - Frequency
	39 - Former Title
	40 - Later Title
	41 - STRN
	42 - GPO Item Number

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

Remarks

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

Example

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 200 OK

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

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

BibSearch

Returns list of bibliographic records that match search criteria. For boolean searches, you may opt to include the 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*

Name	Values	Required	Description/Notes
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

Name	Values	Required	Description/Notes
			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 "LimitFiltersGet" on page 90 for valid options
page	int		Default is 1, for first page
bibspage	>0		Default is 10
notran	>0		Do not record search transaction in the Polaris Transactions database.

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

Example

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

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

Return - Success

HTTP/1.1 200 OK

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

```
<BibSearchResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>2</PAPIErrorCode><ErrorMessage><WordList>roald dahl dvd
&#x0;</WordList><TotalRecordsFound>9</TotalRecordsFound><BibSearchRows><BibSear
chRow><Position>1</Position><ControlNumber>675617</ControlNumber><Title>Roald
Dahl's The BFG (Big friendly giant) [DVD]</Title><Author/><Publisher>Arlington, VA :
A&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><Primar
yTypeOfMaterial>33</PrimaryTypeOfMaterial><CallNumber>ROAL</CallNumber><CourseR
eserveCount>0</CourseReserveCount><LocalItemsIn>0</LocalItemsIn><LocalItemsTotal>0
</LocalItemsTotal><SystemItemsIn>8</SystemItemsIn><SystemItemsTotal>13</SystemItem
sTotal><CurrentHoldRequests>0</CurrentHoldRequests><KWIC>&lt;span&gt;&lt;b&gt; ...
&lt;/b&gt;&lt;b&gt;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/></BibSearch
Row><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><Descrip
tion>1 videodisc (DVD)(ca. 115 min.) : sd., col. ; 4 3/4
in.</Description><WebLink/><Fiction/><TypeOfMaterial>33181604</TypeOfMaterial><Primar
yTypeOfMaterial>33</PrimaryTypeOfMaterial><CallNumber>CHAR</CallNumber><CourseR
eserveCount>0</CourseReserveCount><LocalItemsIn>0</LocalItemsIn><LocalItemsTotal>0
</LocalItemsTotal><SystemItemsIn>1</SystemItemsIn><SystemItemsTotal>2</SystemItems
Total><CurrentHoldRequests>0</CurrentHoldRequests><KWIC>&lt;span&gt;&lt;b&gt; ...
&lt;/b&gt;Charlie and the chocolate factory [&lt;b&gt;DVD&lt;/b&gt;] / Warner Bros. Pictures
presents in association with Village &lt;b&gt; ... &lt;b&gt;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

Name	Values	Required	Description/Notes
			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-

Name	Description/Notes
	AU, 999-SE, 999-SU, 999-TI).

Example

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

Return - Success

HTTP/1.1 200 OK

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

```
<HeadingsSearchResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><HeadingsSearchRows><
HeadingsSearchRow><Position>3</Position><DisplayType>0</DisplayType><DisplayConst
ant/><DisplayTerm>Civil society--Russia (Federation)
</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D2</HeadingID>
</HeadingsSearchRow><HeadingsSearchRow><Position>2</Position><DisplayType>0</
DisplayType><DisplayConstant/><DisplayTerm>Civil society--Turkey--History--20th
century</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D3</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayTy
pe>0</DisplayType><DisplayConstant/><DisplayTerm>Civil
unions</DisplayTerm><GlobalOccurrences>0</GlobalOccurrences><HeadingID>106D5</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayTy
pe>2</DisplayType><DisplayConstant>SEE ALSO:</DisplayConstant><DisplayTerm>Same-
sex
marriage</DisplayTerm><GlobalOccurrences>28</GlobalOccurrences><HeadingID>45AD1<
/HeadingID></HeadingsSearchRow><HeadingsSearchRow><Position>0</Position><Displa
yType>0</DisplayType><DisplayConstant/><DisplayTerm>Civil unions--Law and legislation-
United
States.</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D6</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayTy
pe>0</DisplayType><DisplayConstant/><DisplayTerm>Civil
war</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D7</Headi
ngID></HeadingsSearchRow><HeadingsSearchRow><Position>1</Position><DisplayType>
2</DisplayType><DisplayConstant>SEE ALSO narrower
term:</DisplayConstant><DisplayTerm>Insurgency</DisplayTerm><GlobalOccurrences>1</
GlobalOccurrences><HeadingID>285DB</HeadingID></HeadingsSearchRow><HeadingsSe
archRow><Position>2</Position><DisplayType>0</DisplayType><DisplayConstant/><Displ
ayTerm>Civil war--Africa--
Drama</DisplayTerm><GlobalOccurrences>1</GlobalOccurrences><HeadingID>106D8</He
adingID></HeadingsSearchRow><HeadingsSearchRow><Position>3</Position><DisplayTy
pe>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]
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.

Name	Description/Notes
RetentionStatement	Retention statement associated with the assigned location.
HoldingsStatement	Holdings statement associated with the assigned location.
HoldingsNote	Holdings note associated with the assigned location.
ItemsTotal	Total number of pieces associated with the assigned location.
ItemsIn	Number of pieces associated with the assigned location and available for check-out.
Holdable	Specifies whether a hold can be placed on the piece.
DueDate	Specifies when the item is due back to the library. [Added in 4.0]

Example

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

Return - Success

HTTP/1.1 200 OK Cache-Control: private

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

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

```

Gra</CallNumber><Designation/><ShelfLocation/><CircStatus>In</CircStatus><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/></HoldRequestCancelRes-
ult>**

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/IiBGmO+I/T6dUoY=

Host: localhost

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

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

Name	Required	Description/Notes
		IF NOT LOCAL.

HTTP Verb

POST

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
RequestGUID	Internal hold request GUID
TxnGroupQualifier	Txn group qualifier of this hold message
TxnQualifier	Txn qualifier of this hold message
StatusType	Status type 1 - Error 2 - Answer 3 - Conditional
StatusValue	Status value 1 - Hold request placed 3 - Conditional: Item available locally 4 - Conditional: Accept ILL policy 5 - Conditional: Accept even with existing holds 6 - Conditional: No items

Name	Description/Notes
	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:c0m8aVzKYLIW0HfEREt9TbtXVqs=
Content-Type: text/xml
Content-Length: 354
Host: localhost

Body

<HoldRequestCreateData>

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

</HoldRequestCreateData>

Return - Success

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

<HoldRequestResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><RequestGUID>7F279D6E-CFDE-4AE3-BE96-EE12305CDF11</RequestGUID><TxnGroupQualifer>BQeK9WLrNew_0BRKISzr2G</TxnGroupQualifer><TxnQualifier>496QYG6MMKss1C6nagTGkG</TxnQualifier><StatusType>3</StatusType><StatusValue>5</StatusValue><Message>There are [1] active requests for this title. Do you still want to place the request?</Message><QueuePosition>0</QueuePosition><QueueTotal>0</QueueTotal></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>

HoldRequestGetList

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

Important:

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

URI

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

Parameters

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

Request Body XML

N/A

XML Body Elements

N/A

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code: Negative values represent errors and are defined elsewhere. Note: On successful completion, the PAPI error code is populated with a positive integer representing the number of rows returned.
ErrorMessage	Error or information message
RecordCount	The total number of records found that met the search criteria
PickListCreateTime	The date and time the list was created
PickListExpirationTime	The expiration time of the list specified by the user
RequestsPicklistRows	A list of request data

Name	Description/Notes
RequestsPicklistGetRow	Container for the data row
SysHoldRequestID	The Polaris unique request ID
SysHoldStatusID	The request status ID
HoldStatus	The request status description
PickupBranchID	The pickup branch ID of the request
PickupBranch	A description of the pickup branch
ActivationDate	The date the request became active
ExpirationDate	The expiration date and time of the request
StatusDate	The date and time the request last changed
BibliographicRecordID	The bibliographic record ID to which the request is attached
BrowseAuthor	The primary author of the work (if any)
BrowseTitle	The title of the work
PrimaryMARCTOMID	The Polaris primary MARC type of material ID
MARCTypeofMaterial	The Polaris MARC type of material description
ItemLevelHold	Boolean value indicating if the request was placed for a specific item.
BorrowByMail	Boolean value indicating if the request was borrow by mail.
PatronID	The unique ID of the patron who placed the request.
PatronBarcode	The patron's barcode.
PatronBranchID	The patron's branch ID.
PatronBranch	The patron's branch description.
PatronFullName	The full name of the patron who placed the request.
PatronCodeID	The patron's Patron Code ID.
PatronCode	The patron's Patron Code description.

Name	Description/Notes
Email address	The patron's email address (if any)
AltEmailAddress	The patron's alternate email address (if any)
PhoneVoice1	The patron's primary phone number (if any)
SMSAddress	The patron's SMS text message (if any)
ItemRecordID	The Polaris item record ID to which the request is bound (if any)
ItemBarcode	The barcode of the item to which the request is bound (if any)
ItemBranchID	The assigned branch ID for the item to which the request is bound (if any)
ItemBranch	The assigned branch description for the item to which the request is bound (if any)
CallNumber	The item's call number (if any)
CopyNumber	The item's copy number (if any)
VolumeNumber	The item's volume number (if any)
Pages	The number of pages for the request (if any)
AssignedCollectionID	The item's assigned collection ID (if any)
CollectionName	The item's assigned collection description (if any)
MaterialTypeID	The item's material type ID (if any)
MaterialType	The item's material type description (if any)
ShelfLocationID	The item's shelf location ID (if any)
ShelfLocation	The item's shelf location description (if any)
PublicationYear	The year the work was published
Publisher	The publisher of the work
Designation	The item's serial designation (if any)

Name	Description/Notes
Edition	The edition of the work (if any)
StaffDisplayNotes	The request's staff note (if any)
NonPublicNotes	The request's non-public note (if any)
PACDisplayNotes	The request' public note (if any)
SortTitle	The NACO normalized title of the work (if any). Appropriate for sorting the list.
SortAuthor	The NACO normalized author of the work (if any). Appropriate for sorting the list.

Example

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

Header

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

Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

N/A

Return

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

<RequestsPicklistRows>

<RequestsPicklistGetRow>

<SysHoldRequestID>811071</SysHoldRequestID>

<SysHoldStatusID>4</SysHoldStatusID>

<HoldStatus>Pending</HoldStatus>

<PickupBranchID>17</PickupBranchID>

<PickupBranch>Cambridge Public Library</PickupBranch>

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

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

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

<BibliographicRecordID>23792</BibliographicRecordID>

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

<BrowseTitle>Cats</BrowseTitle>

<PrimaryMARCTOMID>1</PrimaryMARCTOMID>

<MarcTypeOfMaterial>Book</MarcTypeOfMaterial>

<ItemLevelHold>>false</ItemLevelHold>

<BorrowByMail>>false</BorrowByMail>

<PatronID>52324</PatronID>

<PatronBarcode>1000500534226</PatronBarcode>

<PatronBranchID>29</PatronBranchID>

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

<PatronFullName>Batson, Billy</PatronFullName>

<PatronCodeID>1</PatronCodeID>

<PatronCode>Regular</PatronCode>

<EmailAddress/>

<AltEmailAddress/>

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

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

<ItemRecordID>102167</ItemRecordID>

<ItemBarcode>0000201430097</ItemBarcode>

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

HoldRequestReply

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

URI

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

URI Parameters

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

Request Body XML

Important:

XML elements must be in the order shown below.

<HoldRequestReplyData>

<TxnGroupQualifier/>

<TxnQualifier/>

<RequestingOrgID/>

<Answer/>

<State/>

</HoldRequestReplyData>

XML Body Elements

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

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
StatusType	Status type

Name	Description/Notes
	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?

Status Value	ILL Only	Question
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/><TxnGro
upQualifer/><TxnQualifier/><StatusType>2</StatusType><StatusValue>1</StatusValue><Me
ssage>Your request has been
placed.</Message><QueuePosition>2</QueuePosition><QueueTotal>2</QueueTotal></Hold
RequestResult>
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

HoldRequestSuspend

Suspend or reactivate a single hold request.

URI

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

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

URI Parameters

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

Request Body XML

Important:

XML elements must be in the order shown below.

<HoldRequestActivationData>

`<UserID/>`

`<ActivationDate/>`

</HoldRequestActivationData>

XML Body Elements

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

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

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

Example

**http://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/><HoldRequestActivationR
ows><HoldRequestActivationRow><SysHoldRequestID>803449</SysHoldRequestID><Retu
rnCode>0</ReturnCode><NewActivationDate>2009-12-
31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-
01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow><HoldReq
uestActivationRow><SysHoldRequestID>803531</SysHoldRequestID><ReturnCode>0</Ret
urnCode><NewActivationDate>2009-12-
31T00:00:00</NewActivationDate><NewExpirationDate>2010-05-
01T00:00:00</NewExpirationDate><ErrorMessage/></HoldRequestActivationRow></HoldRe
questActivationRows></HoldRequestActivationResult>**

Return - Failed

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

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

**<HoldRequestActivationResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Failed to convert
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

Name	Description/Notes
	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/372-798

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><Bloc-
kRows><ItemRenewBlockRow><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>99-
99</PolarisErrorCode><ErrorAllowOverride>true</ErrorAllowOverride><ErrorDesc>This
item is overdue. Your account will be charged
$4.10</ErrorDesc><ItemRecordID>527727</ItemRecordID></ItemRenewBlockRow></Block-
Rows><DueDateRows><ItemRenewDueDateRow><ItemRecordID>527727</ItemRecordID><-
DueDate>2009-12-
17T23:59:59</DueDate></ItemRenewDueDateRow></DueDateRows></ItemRenewResult></It-
emsOutActionResult>
```

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><ItemRenewBlockRo-
w><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>16384</PolarisErrorCode><Erro-
rAllowOverride>false</ErrorAllowOverride><ErrorDesc>Item has exceeded renewal limit,
not allowed to
renew</ErrorDesc><ItemRecordID>372798</ItemRecordID></ItemRenewBlockRow><ItemRe-
newBlockRow><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>9999</PolarisError-
Code><ErrorAllowOverride>true</ErrorAllowOverride><ErrorDesc>This item is overdue.
Your account will be charged
$4.20</ErrorDesc><ItemRecordID>372798</ItemRecordID></ItemRenewBlockRow></Block-
Rows><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

Name	Description/Notes
	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><ItemRenewBlockRo-
w><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>16384</PolarisErrorCode><Erro-
rAllowOverride>>false</ErrorAllowOverride><ErrorDesc>Item has exceeded renewal limit,
not allowed to
renew</ErrorDesc><ItemRecordID>527727</ItemRecordID></ItemRenewBlockRow><ItemRe-
newBlockRow><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>8192</PolarisError-
Code><ErrorAllowOverride>>false</ErrorAllowOverride><ErrorDesc>Item is long overdue,
not allowed to
renew</ErrorDesc><ItemRecordID>1223636</ItemRecordID></ItemRenewBlockRow><ItemR-
enewBlockRow><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>4096</PolarisError-
Code><ErrorAllowOverride>>false</ErrorAllowOverride><ErrorDesc>Item is overdue, not
allowed to
renew</ErrorDesc><ItemRecordID>2904429</ItemRecordID></ItemRenewBlockRow></Bloc-
kRows><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></It-
emsOutActionResult>
```

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><ItemRenewBlockRo-
w><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>16384</PolarisErrorCode><Erro-
rAllowOverride>>false</ErrorAllowOverride><ErrorDesc>Item has exceeded renewal limit,
not allowed to
renew</ErrorDesc><ItemRecordID>372798</ItemRecordID></ItemRenewBlockRow><ItemRe-
newBlockRow><PAPIErrorType>2</PAPIErrorType><PolarisErrorCode>9999</PolarisError-
Code><ErrorAllowOverride>true</ErrorAllowOverride><ErrorDesc>This item is overdue.
Your account will be charged
$4.20</ErrorDesc><ItemRecordID>372798</ItemRecordID></ItemRenewBlockRow></Block-
Rows><DueDateRows/></ItemRenewResult></ItemsOutActionResult>
```

ItemUpdateBarcode

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

Important:

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

URI

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

URI Parameters

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

Request Body XML**Important:**

XML elements must be in the order shown below.

`<ModylItemData>`

`<TransactionBranchID />`

`<ItemBarcode/>`

`</ModylItemData>`

XML Body Elements

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

HTTP Verb

PUT

Authorization required?

Yes

XML Elements Returned

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

Example

<https://egraham-r2vm.gisinfosystems.com/Plato-R2PAPIService/REST/protected/v1/1033/100/1/GgZtGNGWUrsNINKmMv7hI61jXQIpRJNS/cataloging/items/2384901/barcode>

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

<ModylItemData>

<TransactionBranchID>74</TransactionBranchID>

<ItemBarcode>EC G2384901</ItemBarcode>

</ModylItemData>

Return

HTTP/1.1 200 OK

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

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

<PAPIErrorCode>0</PAPIErrorCode>

<ErrorMessage/>

</PAPIResult>

LimitFiltersGet

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

URI

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

HTTP Verb

GET

Authorization required?

Yes, if authentication level set to ALL

XML Elements Returned

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

Example

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

Header

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

Authorization: PWS polarisdev:hy88Pneyn0TbXd0d1aMFCbPnzmA=

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><Limit-
FiltersRow><Description>All Items - This library
only</Description><CCLFilter>AB=74</CCLFilter><DisplayOrder>1</DisplayOrder></Limit-
FiltersRow><LimitFiltersRow><Description>All Items - All
Libraries</Description><CCLFilter>TOM=*</CCLFilter><DisplayOrder>2</DisplayOrder></L-
imitFiltersRow><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 25. For more information about protected methods, see "PAPI Protected Methods" on page 13.

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

ID	Notification Type	ID	Notification Type
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

Name	Required	Description/Notes
		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
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

Name	Required	Description/Notes
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

ID	Notification Type
0	Success

ID	Notification Type
-1	Failure general
-5	Failure database
-6	Failure invalid parameter
-2000	Item ID is invalid
-3000	Patron ID is invalid

XML Elements Returned

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

Example

**http://[hostname]
/PAPIService/REST/protected/v1/1033/100/1/HfOzmNFbhgIFMOQvFpZpjzCdM2Bq1Qcs/notifi-
cation/1**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+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</Orga-
nizationCodeID><Name>System -- CLUSTER</Name><Abbreviation>MVLS-
SALS</Abbreviation><DisplayName>MVLS-
SALS</DisplayName></OrganizationsGetRow></OrganizationsGetRows></OrganizationsGe-
tResult>
```

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

Name	Description/Notes
	logged
BranchID	Polaris ID of the branch associated with the fine
BranchName	Name of the branch associated with the fine
TransactionTypeID	Polaris ID of the type of transaction 1 - Charge 2 - Payment for a Charge 3 - Return from Deposit 4 - Deposit 5 - Waive 6 - Waive Existing Charge 7 - Foreit from Deposit 8 - Credit from Deposit/Pay 9 - Refund from Payment 10 - Auto-waive
TransactionTypeDescription	Description of the type of transaction
FeeDescription	Detailed description of the fee
TransactionAmount	Amount of transaction in dollar and cents
OutstandingAmount	Outstanding amount
FreeTextNote	Free text note associated with the transaction
ItemID	Polaris ID of the associated item record
Barcode	The item barcode
BibID	The ID of the associated bibliographic record
FormatID	Polaris ID of the type of format (see "Material Format Types" on page 22)

Name	Description/Notes
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><TransactionTypeDescri-
ption>Charge</TransactionTypeDescription><FeeDescription/><TransactionAmount>2.0000-
</TransactionAmount><OutstandingAmount>2.0000</OutstandingAmount><FreeTextNote/>-
<ItemID>0</ItemID><Barcode/><BibID>0</BibID><FormatID>0</FormatID><FormatDescri-
ption/><Title/><Author/><CallNumber/><CheckOutDate>0001-01-
01T00:00:00</CheckOutDate><DueDate>0001-01-
01T00:00:00</DueDate></PatronAccountGetRow><PatronAccountGetRow><TransactionID>3-
609050</TransactionID><TransactionDate>2009-10-
07T12:12:24</TransactionDate><BranchID>3</BranchID><BranchName>Amsterdam Free
Library</BranchName><TransactionTypeID>1</TransactionTypeID><TransactionTypeDescri-
ption>Charge</TransactionTypeDescription><FeeDescription>Overdue
Item</FeeDescription><TransactionAmount>16.5000</TransactionAmount><OutstandingAm-
```

```
ount>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></PatronAccou-
ntGetResult>
```

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)

XML Body Elements

Important:

XML elements must be in the order shown below.

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

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

**https://[hostname]
/PAPIService/REST/protected/v1/1033/100/1/kSUEQM6CuhkFalolaHPYdpHJ0U7Neczl/patron-
/21756003332022/account/680938/pay**

Header

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

Body

<PatronAccountPayData >

 <TxnAmount >1.25</TxnAmount>

 <PaymentMethodID >11</PaymentMethodID>

 <FreeTextNote>Paid through Polaris API</FreeTextNote>

</PatronAccountPayData>

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronAccountPayAll

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

URI

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

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Barcode of patron

Query String Parameters

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

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

`https://[hostname]
/PAPIService/REST/protected/v1/1033/100/1/kSUEQM6CuhkFalolaHPYdpHJ0U7Neczl/patron-
/21756003332022/account/lumpsumpayment`

Header

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

Body

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

Return - Success

HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8
`<PatronAccountPayResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/></PatronAccountPayResul-
t>`

Return - Failed

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

HTTP/1.1 200 OK

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

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

PatronAccountVoid

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

URI

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

URI Parameters

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

Query String Parameters

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

HTTP Verb

DELETE

Authorization required?

Yes

Protected method?

Yes

Example

**https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/
kSUEQM6CuhkFalolaHPYdpHJ0U7NeczI/patron/21756003332022/account/680938/void/payme-
nt**

Header

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronAccountCreateCredit

This method creates a credit on the Polaris patron account.

URI

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

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Patron barcode

Query String Parameters

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

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

<PatronAccountCreateCreditData>

<TxnAmount >1.25</TxnAmount>

<PaymentMethodID >11</PaymentMethodID>

<FreeTextNote>Credited through Polaris API</FreeTextNote>

</PatronAccountCreateCreditData>

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed:

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

```
https://[hostname]/PAPIService/REST/protected/v1/1033/100/1/  
kSUEQM6CuhkFalolaHPYdpHJ0U7NeczI/patron/21756003332022/account/680938/void/payment
```

XML Body Elements

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

PatronAccountDepositCredit

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

URI

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

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Patron barcode

Query String Parameters

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

XML Body Elements

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

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/account/lum-sumDepositcreditt

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed:

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronAccountRefundCredit

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

URI

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

URI Parameters

Name	Required	Description/Notes
barcode	Yes	Patron barcode

Query String Parameters

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

XML Body Elements

<i>Name</i>	Required	Description/Notes
TxnAmount	Yes	Valid dollar amount
FreeTextNote	No	Note to attach to payment

HTTP Verb

PUT

Authorization required?

Yes

Protected method?

Yes

Example

http://localhost/PAPIService/REST/public/v1/1033/100/1/patron/21756003332022/account/lum-psumrefundcredit

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed:

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronAccountCreateTitleList

Creates a named title list in the patron account.

Note:

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

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

XML Body Elements

Name	Required	Description/Notes
RecordStoreName	Yes	Name of record store

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronAccountGetTitleLists

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

PatronAccountDeleteTitleList

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

URI

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

URI Parameters

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

HTTP Verb

DELETE

Authorization required?

Yes

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronTitleListAddTitle

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

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

XML Body Elements

Name	Required	Description/Notes
RecordStoreID	Yes	Unique identifier for the record store
RecordName	Yes	Title of the item being added to the list
LocalControlNumber	Yes	Control number of the tile

XML Elements Returned

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

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronTitleListCopyTitle

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

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

XML Body Elements

Name	Required	Description/Notes
FromRecordStoreID	Yes	Record store to copy the records from
FromPosition	Yes	Position of the title in the list. Note: A negative RecordID (-990) can be submitted instead of the title's position.
ToRecordStoreID	Yes	Record store to add the records to

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

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

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

PatronTitleListCopyAllTitles

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

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

XML Body Elements

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

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwGL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

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

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

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

PatronTitleListGetTitles

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

URI

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

URI Parameters

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

HTTP Verb

GET

Authorization required?

Yes

Examples

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

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

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

```
<PatronTitleListGetTitlesResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
<PatronTitleListTitleRows>
<PatronTitleListTitleRow><Position>2</Position><RecordID>3728</RecordID><
```

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronTitleListMoveTitle

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron.

HTTP Verb

POST

Authorization required?

Yes

Request Body XML

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

XML Body Elements

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

Examples

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

```
<PatronTitleListMoveTitleData> <FromRecordStoreID>123</FromRecordStoreID>  
<FromPosition>3</FromPosition> <ToRecordStoreID>720</ToRecordStoreID>  
</PatronTitleListMoveTitleData>
```

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronTitleListDeleteTitle

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

URI

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

URI Parameters

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

HTTP Verb

DELETE

Authorization required?

Yes

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronTitleListDeleteAllTitles

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

URI

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

URI Parameters

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

HTTP Verb

DELETE

Authorization required?

Yes

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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

PatronBasicDataGet

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

URI

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

URI Parameters

<i>Name</i>	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

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

Name	Description/Notes
PhoneNumber2	Patron's phone number 2
PhoneNumber3	Patron's phone number 23
Phone1CarrierID	Phone 1 carrier ID. Unused in 4.0. 4.1 will return the carrier ID.
Phone2CarrierID	Phone 2 carrier ID. Unused in 4.0. 4.1 will return the carrier ID.
Phone3CarrierID	Phone 3 carrier ID. Unused in 4.0. 4.1 will return the carrier ID.
CellPhone	This field has been deprecated in 4.1. For backwards compatibility, 4.1 will populate this field using the TXT #.
CellPhoneCarrierID	This field has been deprecated in 4.1. For backwards compatibility, 4.1 will populate this field using the TXT #.
EmailAddress	Patron's primary email address
AltEmailAddress	Patron's alternate email address
BirthDate	Patron's date of birth
RegistrationDate	Original date of registration
LastActivityDate	Date of last activity
AddrCheckDate	Date of next address check
MessageNewCount	Count of new messages
MessageReadCount	Count of unread messages
PatronAddresses	List of patron's addresses. Only available if the addresses query string value is supplied in the URL as a non-zero value. Ex: /basicdata?addresses=1 Address fields: AddressID FreeTextLabel StreetOne StreetTwo City

Name	Description/Notes
	State County PostalCode ZipPlusFour Country CountryID AddressTypeID
ItemsOutCount	Number of items checked out to the patron
ItemsOverdueCount	Number of overdue items checked out to the patron
ItemsOutLostCount	Number of items in lost status for the patron
HoldRequestsTotalCount	Number of Polaris and ILL hold requests for this patron
HoldRequestsCurrentCount	Number of Polaris and ILL hold requests in the following statuses: ACTIVE, PENDING, INACTIVE, SHIPPED.
HoldRequestsShippedCount	Number of Polaris hold requests in SHIPPED status (sent to library for pickup) for this patron. [Added in 4.0]
HoldRequestsHeldCount	Number of Polaris hold requests in HELD status (available for pickup) for this patron
HoldRequestsUnclaimedCount	Number of Polaris hold requests in UNCLAIMED status (available for pickup but never picked up) for this patron. [Added in 4.0]
ChargeBalance	The charge balance of the patron's account
CreditBalance	The credit balance of the patron's account
DepositBalance	The deposit balance of the patron's

Name	Description/Notes
	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><Patro-
nID>299377</PatronID><Barcode>21756003332022</Barcode><NameFirst>Jeffery</NameFir-
st><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><HoldReque-
stsCurrentCount>0</HoldRequestsCurrentCount><HoldRequestsShippedCount>0</HoldRe-
questsShippedCount><HoldRequestsHeldCount>1</HoldRequestsHeldCount><HoldReque-
stsUnclaimedCount>0</HoldRequestsUnclaimedCount><ChargeBalance>8.3000</ChargeBa-
lance><CreditBalance>0</CreditBalance><DepositBalance>0</DepositBalance></PatronBa-
sicData></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/></Bloc

Name	Description/Notes
	k></Blocks>
CanPatronCirculate	T/F value

Example

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>2123400000-
0166</PatronBarcode><AssignedBranchName>Amsterdam Free
Library</AssignedBranchName><ExpirationDate>2014-11-
05T00:00:00</ExpirationDate><OverridePasswordUsed>>false</OverridePasswordUsed><Blo-
cks><Block><PatronID>356971</PatronID><PatronName>Tester, Otto
</PatronName><BlockDescription>Patron is not allowed to access this vendor
account.</BlockDescription></Block></Blocks><CanPatronCirculate>>false</CanPatronCirc-
ulate></PatronCirculateBlocksResult>
```

Return - Failed

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

CreatePatronBlocks

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

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

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

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

PAPI Error Codes Unique to This Method

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

URI

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

HTTP Verb

POST

Authorization required?

Yes

Protected?

Yes

String Query Values

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

Request Body XML

<CreatePatronBlocksData>

<BlockTypeID />

<BlockValue />

</CreatePatronBlocksData>

XML Body Elements

Name	Description
CreatePatronBlocksData	A container for the block data
BlockTypeID	The type of block: 1 = Free text block 2 = library assigned block 3 = System block
BlockValue	The Block value When a free text block is created - a string no more than 255 characters in length When a library assigned block is created - an integer representing a valid patron stop ID

Name	Description
	When a system block is created - the following integer values are allowed: 64 - Self-Registration from PAC Block 128 - Address update from PAC Block 256 - Express Registration Block 512 - Offline Registration Block

XML Elements Returned

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

Example

http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bN-FeV5tdiNd1ME37wZt/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.

Name	Description/Notes
HoldRequestID	Polaris ID of the Hold Request
BibID	The ID of the associated bibliographic record
StatusID	Polaris ID of the status of the hold request 1 - Inactive 3 - Active 4 - Pending 5 - Shipped 6 - Held 7 - Not Supplied 8 - Unclaimed 9 - Expired 16 - Cancelled
StatusDescription	Description of the status of the hold request
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item
FormatID	Polaris ID of the type of format (see "Material Format Types" on page 22)
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

Name	Description/Notes
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>62-0893</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</QueueTot-
al><ActivationDate>2008-12-03T00:00:00</ActivationDate><ExpirationDate>2009-04-
02T23:59:00</ExpirationDate><GroupName/><ItemLevelHold>>false</ItemLevelHold></Patro-
nHoldRequestsGetRow><PatronHoldRequestsGetRow><HoldRequestID>801645</HoldRequ-
estID><BibID>84712</BibID><StatusID>8</StatusID><StatusDescription>Unclaimed</Statu-
sDescription><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</QueueTot-
al><ActivationDate>2008-12-09T00:00:00</ActivationDate><ExpirationDate>2009-06-
07T23:59:00</ExpirationDate><GroupName/><ItemLevelHold>>false</ItemLevelHold></Patro-
nHoldRequestsGetRow></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

Name	Description/Notes
Barcode	The item barcode
BibID	The ID of the associated bibliographic record
FormatID	Polaris ID of the type of format (see "Material Format Types" on page 22)
FormatDescription	Format description
Title	Title of the item
Author	Author of the item
CallNumber	Call Number of the item
CheckOutDate	Check Out Date of the item
DueDate	Due Date of the item
RenewalCount	Number of times item has been renewed by this patron. (For LOST items, this value will always be '0').
RenewalLimit	Maximum number of times this item can be renewed by this patron. (For LOST items, this value will always be '0').
AssignedBranchID	Polaris ID of the branch to which the item is assigned.
AssignedBranchName	Name of the branch to which the item is assigned.
LoaningBranchID	Polaris ID of the branch from which the item was checked out.
LoaningBranchName	Name of the branch from which the item was checked out.
BillingNoticeSent	(Boolean value) Was a billing notice sent for this item?
ReplacementChargeTxnID	(Integer value) Patron account transaction ID for a replacement charge (Can be used for accrued fines)
ProcessingChargeTxnID	(Integer value) Patron account transaction ID for a processing charge

Name	Description/Notes
	(Can be used for accrued fines)
OverdueChargeTxnID	(Integer value) Patron account transaction ID for an overdue charge (Can be used for accrued fines)
DisplayInPAC	(Boolean value) Is this item displayable to the public?
ElectronicItem	(Boolean value) Is this an electronic item?
VendorName	The vendor name associated with the electronic item
VendorAccountName	The vendor account name associated with the electronic item
VendorObjectIdentifier	The unique ID of the electronic item in the vendor's repository
ISBN	The ISBNs of the associated bibliographic records
ISSN	The ISSN of the associated bibliographic records
OCLCNumber	The OCLC number of the associated bibliographic records
UPCNumber	The UPC number of the associated bibliographic records

Example

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

Header

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

Authorization: PWS polarisdev:IK0cRxywhfBT4oPoLEsoRBDkAVo=

Return - Success

HTTP/1.1 200 OK

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

```

<PatronItemsOutGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><PatronItemsOutGetRows-
><PatronItemsOutGetRow><ItemID>2859638</ItemID><Barcode>0000204137301</Barcode>-
<BibID>740185</BibID><FormatID>1</FormatID><FormatDescription>New / Popular
Book</FormatDescription><Title>iPhone for dummies</Title><Author>Baig,
Edward.</Author><CallNumber>384.53 Bai</CallNumber><CheckOutDate>2013-07-
01T16:18:55.4</CheckOutDate><DueDate>2013-06-
03T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>1</RenewalLimit-
><AssignedBranchID>90</AssignedBranchID><AssignedBranchName>Saratoga Springs
Public
Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranch-
Name>Amsterdam Free
Library</LoaningBranchName><BillingNoticeSent>>false</BillingNoticeSent><Replacement-
ChargeTxnID>0</ReplacementChargeTxnID><ProcessingChargeTxnID>0</ProcessingCharg-
eTxnID><OverdueChargeTxnID>0</OverdueChargeTxnID><DisplayInPAC>>true</DisplayInP-
AC><ElectronicItem>>false</ElectronicItem><VendorName/><VendorAccountName/><Vendo-
rObjectIdentifier/><ISBN>9780470174692</ISBN><ISSN/><OCLCNumber/><UPCNumber/><-
/PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>2053700</ItemID><Barcode>00-
04300389444</Barcode><BibID>191918</BibID><FormatID>34</FormatID><FormatDescripti-
on>Video</FormatDescription><Title>High noon [videorecording]
</Title><Author/><CallNumber>VC Fict Hig</CallNumber><CheckOutDate>2013-06-
20T11:16:43.767</CheckOutDate><DueDate>2013-06-
25T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>0</RenewalLimit-
><AssignedBranchID>3</AssignedBranchID><AssignedBranchName>Amsterdam Free
Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranch-
Name>Amsterdam Free
Library</LoaningBranchName><BillingNoticeSent>>false</BillingNoticeSent><Replacement-
ChargeTxnID>0</ReplacementChargeTxnID><ProcessingChargeTxnID>0</ProcessingCharg-
eTxnID><OverdueChargeTxnID>0</OverdueChargeTxnID><DisplayInPAC>>true</DisplayInP-
AC><ElectronicItem>>false</ElectronicItem><VendorName/><VendorAccountName/><Vendo-
rObjectIdentifier/><ISBN>9780782008340</ISBN><ISSN/><OCLCNumber/><UPCNumber/><-
/PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>473009</ItemID><Barcode>000-
0405998279</Barcode><BibID>366061</BibID><FormatID>34</FormatID><FormatDescriptio-
n>Video</FormatDescription><Title>Unforgiven [videorecording]
</Title><Author/><CallNumber>VC Fict Unf</CallNumber><CheckOutDate>2013-06-
20T11:15:07.94</CheckOutDate><DueDate>2013-06-
25T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>0</RenewalLimit-
><AssignedBranchID>3</AssignedBranchID><AssignedBranchName>Amsterdam Free
Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranch-
Name>Amsterdam Free
Library</LoaningBranchName><BillingNoticeSent>>false</BillingNoticeSent><Replacement-
ChargeTxnID>0</ReplacementChargeTxnID><ProcessingChargeTxnID>0</ProcessingCharg-
eTxnID><OverdueChargeTxnID>0</OverdueChargeTxnID><DisplayInPAC>>true</DisplayInP-
AC><ElectronicItem>>false</ElectronicItem><VendorName/><VendorAccountName/><Vendo-
rObjectIdentifier/><ISBN>9780790734316</ISBN><ISSN/><OCLCNumber/><UPCNumber/><-
/PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>2767531</ItemID><Barcode>00-
04300705433</Barcode><BibID>723173</BibID><FormatID>1</FormatID><FormatDescriptio-
n>Book</FormatDescription><Title>Jesse James : legendary rebel and
outlaw</Title><Author>Robinson, J. Dennis.</Author><CallNumber>J 364.15
Rob</CallNumber><CheckOutDate>2013-06-

```

20T11:13:27.367</CheckOutDate><DueDate>2013-07-18T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>1</RenewalLimit><AssignedBranchID>3</AssignedBranchID><AssignedBranchName>Amsterdam Free Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free Library</LoaningBranchName><BillingNoticeSent>>false</BillingNoticeSent><ReplacementChargeTxnID>0</ReplacementChargeTxnID><ProcessingChargeTxnID>0</ProcessingChargeTxnID><OverdueChargeTxnID>0</OverdueChargeTxnID><DisplayInPAC>>true</DisplayInPAC><ElectronicItem>>false</ElectronicItem><VendorName/><VendorAccountName/><VendorObjectIdentifier/><ISBN>9780756518714</ISBN><ISSN/><OCLCNumber/><UPCNumber/></PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>2069573</ItemID><Barcode>00-04300572676</Barcode><BibID>275667</BibID><FormatID>1</FormatID><FormatDescription>Book</FormatDescription><Title>The lion, the witch, and the wardrobe</Title><Author>Lewis, C. S. (Clive Staples), 1898-1963.</Author><CallNumber>j PB Fict Lew #2</CallNumber><CheckOutDate>2013-06-20T11:17:34.973</CheckOutDate><DueDate>2013-07-18T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>0</RenewalLimit><AssignedBranchID>3</AssignedBranchID><AssignedBranchName>Amsterdam Free Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free Library</LoaningBranchName><BillingNoticeSent>>false</BillingNoticeSent><ReplacementChargeTxnID>0</ReplacementChargeTxnID><ProcessingChargeTxnID>0</ProcessingChargeTxnID><OverdueChargeTxnID>0</OverdueChargeTxnID><DisplayInPAC>>true</DisplayInPAC><ElectronicItem>>false</ElectronicItem><VendorName/><VendorAccountName/><VendorObjectIdentifier/><ISBN>9780064471046</ISBN><ISSN/><OCLCNumber/><UPCNumber/></PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>2870627</ItemID><Barcode>00-00504977653</Barcode><BibID>742588</BibID><FormatID>1</FormatID><FormatDescription>Book</FormatDescription><Title>Stormbringer</Title><Author>Furman, Simon.</Author><CallNumber>J Fict Fur</CallNumber><CheckOutDate>2013-06-20T11:18:35.96</CheckOutDate><DueDate>2013-07-18T23:59:00</DueDate><RenewalCount>0</RenewalCount><RenewalLimit>3</RenewalLimit><AssignedBranchID>29</AssignedBranchID><AssignedBranchName>Crandall Public Library (Glens Falls)</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>-Amsterdam Free Library</LoaningBranchName><BillingNoticeSent>>false</BillingNoticeSent><ReplacementChargeTxnID>0</ReplacementChargeTxnID><ProcessingChargeTxnID>0</ProcessingChargeTxnID><OverdueChargeTxnID>0</OverdueChargeTxnID><DisplayInPAC>>true</DisplayInPAC><ElectronicItem>>false</ElectronicItem><VendorName/><VendorAccountName/><VendorObjectIdentifier/><ISBN>9781600100185</ISBN><ISSN/><OCLCNumber>AMI-2128</OCLCNumber><UPCNumber/></PatronItemsOutGetRow><PatronItemsOutGetRow><ItemID>2055372</ItemID><Barcode>0004300409564</Barcode><BibID>281801</BibID><FormatID>1</FormatID><FormatDescription>Book</FormatDescription><Title>Kayaking : whitewater and sea</Title><Author>Ford, Kent, 1957-</Author><CallNumber>797.1 For</CallNumber><CheckOutDate>2013-07-11T13:21:57.47</CheckOutDate><DueDate>2013-08-08T23:59:00</DueDate><RenewalCount>1</RenewalCount><RenewalLimit>0</RenewalLimit><AssignedBranchID>3</AssignedBranchID><AssignedBranchName>Amsterdam Free Library</AssignedBranchName><LoaningBranchID>3</LoaningBranchID><LoaningBranchName>Amsterdam Free

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

<PatronItemsOutGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><PAPIErrorCode>-1</PAPIErrorCode><ErrorMessage>Invalid Status ID 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: freetext librarydefined
message_ID	Yes	ID of patron message

HTTP Verb

PUT

Authorization required?

Yes

Examples

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

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

PatronMessageDelete

Delete a specific patron message.

URI

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

URI Parameters

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

HTTP Verb

DELETE

Authorization required?

Yes

Examples

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

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

PatronPreferencesGet

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

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

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

Name	Description/Notes
	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><Patr-
onID>299377</PatronID><Barcode>21756003332022</Barcode><ReadingListEnabled>true</-
ReadingListEnabled><DeliveryMethodID>3</DeliveryMethodID><DeliveryMethodDescriptio-
n>Telephone
1</DeliveryMethodDescription><DeliveryEmailFormatID>2</DeliveryEmailFormatID><Deliv-
eryEmailFormatDescription>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/></PatronReadingHistoryCl-  
earResult>
```

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

Name	Order	Required	Description/Notes
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
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.

Name	Order	Required	Description/Notes
			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

Name	Order	Required	Description/Notes
			"Cell Phone Field in Polaris 4.0" below.
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.

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

Example

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

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Content-Length: 133

Body

```
<PatronRegistrationCreateData>
  <LogonBranchID>1</LogonBranchID>
  <LogonUserID>1</LogonUserID>
  <LogonWorkstationID>1</LogonWorkstationID>
  <PatronBranchID>74</PatronBranchID>
  <PostalCode>13090</PostalCode>
  <City>Liverpool</City>
  <State>NY</State>
```

```
<StreetOne>100 Main Street</StreetOne>
<NameFirst>Gary</NameFirst>
<NameLast>Unmarried</NameLast>
<PhoneVoice1>555-1212</PhoneVoice1>
<EmailAddress>dude@hotmail.com</EmailAddress>
<UserName>PolarisDude</UserName>
<Password>1234</Password>
<Password2>1234</Password2>
</PatronRegistrationCreateData>
```

Return - Success

HTTP/1.1 200 OK

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

```
<PatronRegistrationCreateResult xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/><Barcode>PACREG35716-
6</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></PatronRegistrationCreateRe-
sult>
```

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

Name	Description/Notes
	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/><PatronSavedSearchesGet-
Rows><PatronSavedSearchesGetRow><SDISearchID>1498</SDISearchID><SDIName>Roo-
sevelt</SDIName><SearchCriteria>FIND KW={freetext}roosevelt{/freetext} AND
AB=3</SearchCriteria><SearchPeriod>Monthly</SearchPeriod><LastRunDate>2009-02-
18T05:11:04</LastRunDate><NotifyOnNoResults>true</NotifyOnNoResults><EmailResultsT-
o>dude@polarislibrary.com</EmailResultsTo><ResultsCount>10</ResultsCount></PatronS-
avedSearchesGetRow><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><EmailResultsT-
o>dude@polarislibrary.com</EmailResultsTo><ResultsCount>10</ResultsCount></PatronS-
avedSearchesGetRow></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 "Material Format Types" on page 22)
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/><PatronReadingHistoryGe-
tRows><PatronReadingHistoryGetRow><ItemID>2254290</ItemID><Barcode>123</Barcode-
><BibID>373330</BibID><FormatID>34</FormatID><FormatDescription>Videotape</Format-
Description><Title>My girl 2 [videorecording]</Title><Author/><CallNumber>VC Fict
My</CallNumber><CheckOutDate>2008-10-
01T14:14:37</CheckOutDate><LoaningBranchID>3</LoaningBranchID><LoaningBranchNa-
me>Amsterdam Free
Library</LoaningBranchName></PatronReadingHistoryGetRow><PatronReadingHistoryGet-
Row><ItemID>9</ItemID><Barcode>0000100000611</Barcode><BibID>180576</BibID><For-
matID>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><LoaningBranchNa-
me>Amsterdam Free
Library</LoaningBranchName></PatronReadingHistoryGetRow><PatronReadingHistoryGet-
Row><ItemID>1399725</ItemID><Barcode>0001000212249</Barcode><BibID>145886</Bibl-
ID><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><LoaningBranchNa-
me>Amsterdam Free
Library</LoaningBranchName></PatronReadingHistoryGetRow><PatronReadingHistoryGet-
Row><ItemID>2450585</ItemID><Barcode>00000203853932</Barcode><BibID>263991</Bibl-
ID><FormatID>1</FormatID><FormatDescription>Book</FormatDescription><Title>Junie B.
Jones and some sneaky peeky spying</Title><Author>Park,
Barbara.</Author><CallNumber>J Fict Par</CallNumber><CheckOutDate>2009-02-
24T15:19:42</CheckOutDate><LoaningBranchID>90</LoaningBranchID><LoaningBranchNa-
me>Saratoga Springs Public
Library</LoaningBranchName></PatronReadingHistoryGetRow><PatronReadingHistoryGet-
Row><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><LoaningBranchNa-
me>Saratoga Springs Public
Library</LoaningBranchName></PatronReadingHistoryGetRow></PatronReadingHistoryGet-
Rows></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/patrons/boolean?q={ccl}`

HTTP Verb

GET

Authorization required?

Yes

Protected?

Yes

String Query Values

Name	Values	Required	Description/Notes
q	string	Yes	Common Command Language (CCL) snippet. Must be URL encoded.
patronsperpage	>0	No	Maximum number of patrons to return default is 10
page	>0	No	Page number Default is 1
sort	string	No	CCL specifying the sort

Name	Values	Required	Description/Notes
			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/aj3TJCD4CeYB8bN-FeV5tdiNd1ME37wZt/search/patrons/Boolean?q=EM%3Deric.graham%40polarislibrary.com>

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body: N/A

Return

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

Patron Access Points

Access Point	Description
ADCK	Address check date
BD	Birth date
BILL	Billed
BLOCKFT	Free text block
BLOCKLIB	Library-assigned block
EM	Email address
EXD	Expiration date
FAX	Fax
LA	Language
LAD	Last activity date
NOTE	Notes

Access Point	Description
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

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

Additional CCL Examples

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

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

EM=eric.graham@polarislibrary.com

EM%3Deric.graham%40polarislibrary.com

PHONE=315*652*

PHONE%3D315*652*

PatronUpdate

Update Patron Registration information. 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

Name	Required	Description/Notes
LogonBranchID	Yes	Current Branch (can default to System [1])
LogonUserID	Yes	Current User (can default to PolarisExec)
LogonWorkstationID	Yes	Current Workstation (can default to OPACDefault)
ReadingListFlag		Enable or disable reading list
EmailFormat		Format of email: 1 - Plain Text 2 - HTML
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"

PatronUpdateUserName

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

URI

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

URI Parameters

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

HTTP Verb

PUT

Authorization required?

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

XML Elements Returned

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

Example

https://egraham-r2vm.gisinfosystems.com/Plato-R2PAPIService/REST/public/v1/1033/100/1/patron/eric1234/username/egraham

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return - Success

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

PAPI Error Codes Unique to This Method

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

PAPI Error Code	Description
	username.

PatronValidate

Validate that a patron is part of the Polaris database.

URI

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

URI Parameters

Name	Required	Description/Notes
patron_barcode	Yes	Barcode of patron

HTTP Verb

GET

Authorization required?

Yes

XML Elements Returned

Name	Description/Notes
Barcode	Patron's barcode
ValidPatron	Does patron exist in the Polaris database? false - No true - Yes

Name	Description/Notes
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><AssignedBranc-
hID>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"

RemoteStorageItemsGet

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

Important:

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

URI

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

URI Parameters

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

Request Body XML

N/A

XML Body Elements

N/A

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

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

Name	Description/Notes
BrowseTitle	The title of the work
BrowseAuthor	The primary author of the work (if any)
MaterialTypeID	The item's material type ID
MaterialType	The item's material type description
CollectionID	The item's collection ID (if any)
Collection	The item's collection description (if any)
ShelfLocationID	The item's shelf location ID (if any)
ShelfLocation	The item's shelf location description (if any)
CallNumber	The item's call number (if any)
CopyNumber	The item's copy number (if any)
VolumeNumber	The item's volume number (if any)

Example

<https://egraham-r2vm.gisinfo.com/Plato-R2PAPIService/REST/protected/v1/1033/100/1/DEsGANrOPNYpnKyaYKJ6fQtg0fKslonE/cataloging/remotestorage/items?branch=92&startdate=8-1-2013&enddate=8-24-2013&maxitems=100&listtype=1>

Header

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

Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

N/A

Return

<RecordCount>1</RecordCount>

```
<RowCount>1</RowCount>
<RemoteStorageItemsGetRows>
  <RemoteStorageItemsGetRow>
    <ItemRecordID>9942528</ItemRecordID>
    <BibliographicRecordID>8577</BibliographicRecordID>
    <Barcode>0003658451</Barcode>
    <BrowseTitle>Salted lemons</BrowseTitle>
    <BrowseAuthor>Smith, Doris Buchanan.</BrowseAuthor>
    <MaterialTypeID>1</MaterialTypeID>
    <MaterialType>Book</MaterialType>
    <CollectionID>87</CollectionID>
    <Collection>Reference</Collection>
    <ShelfLocationID/>
    <ShelfLocation/>
    <CallNumber>R</CallNumber>
    <CopyNumber/>
    <VolumeNumber/>
  </RemoteStorageItemsGetRow>
</RemoteStorageItemsGetRows>
</RemoteStorageItemsGetResult>
```

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><Sor-
tOptionsRow><Code>RELEVANCE</Code><Description>Relevance</Description><Options>RELEVANCE</Options></SortOptionsRow><SortOptionsRow><Code>MP</Code><Desc-
ription>Most popular</Description><Options>MP
DESC</Options></SortOptionsRow><SortOptionsRow><Code>AU</Code><Description>A-
uthor</Description><Options>AU</Options></SortOptionsRow><SortOptionsRow><Code>-
TI</Code><Description>Title</Description><Options>TI</Options></SortOptionsRow><Sort-
OptionsRow><Code>CALL</Code><Description>Call
Number</Description><Options>CALL</Options></SortOptionsRow><SortOptionsRow><C-
ode>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>
```

UpdateRequestStatus

This protected method will update the request status.

Important:

A call to `AuthenticateStaffUser` is required before calling any protected method. Patron blocks are de-duplicated on creation; duplicate blocks are not allowed.

PAPI Error Codes Unique to This Method

PAPI Error Codes	Description
-4003	Invalid request ID specified
-4407	Request status invalid for this process
-4408	Invalid request status change requested
-4409	Invalid hold user not supplied reason
-4410	This is the only item available for the hold
-4411	No other items are available to fill the hold

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}{access_token}/circulation/requests/{request_id}/status?action={status_action}`

URI Parameters

Name	Required	Values	Description/Notes
request_id	Yes	int	The request being acted upon
action	Yes	string	Valid actions include: deny = Deny request locate = Sets the request status to located. return = Sets the request status to pending if the request has been set to located in error. askmelater = Submits the hold request to the askmelater process.
itemid	Required in some circumstances	int	The ItemRecordID of the item bound to the request. The value is required for the following actions: locate, return, askmelater
denyreason	Required in some circumstances	int	The ReasonID from the table HoldUserNotSuppliedReasons. This value is required for the "deny" action.

HTTP Verb

PUT

Authorization required?

Yes

Protected method

Yes

XML Elements Returned

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

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Body

N/A

Return

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

Locate Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bN-FeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=locate&itemid=4527>

Return Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bN-FeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=return&itemid=4527>

Ask Me Later Example

<http://egraham-r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bN-FeV5tdiNd1ME37wZt/circulation/requests/12345/status?action=askmelater&itemid=4527>

Deny Example

<http://egraham->

r2.gisinfosystems.com/PlatoPAPIService/REST/protected/v1/1033/100/1/aj3TJCD4CeYB8bN-FeV5tdiNd1ME37wZt/ circulation/requests/12345/ status?action=deny&denyreason =4527

Synch Methods for 3rd Party Discovery Interfaces

These protected methods have been developed for use in synchronizing third-party discovery interfaces with the Polaris database.

See Also:

- "Patron_GetBarcodeFromID" on page 216
- "Synch_AuthsByIDGet" on page 219
- "Synch_BibsByIDGet" on page 223
- "Synch_BibReplacementIDGet" on page 227
- "Synch_GetAuthIDList" on page 231
- "Synch_GetBibIDList" on page 234
- "Synch_GetDeletedAuths" on page 237
- "Synch_GetDeletedBibs" on page 240
- "Synch_GetDeletedItems" on page 243
- "Synch_GetDeletedPatrons" on page 246
- "Synch_GetItemIDList" on page 249
- "Synch_GetMaxAuthID" on page 252
- "Synch_GetMaxBibID" on page 255
- "Synch_GetMaxItemID" on page 258
- "Synch_GetUpdatedAuths" on page 274
- "Synch_GetUpdatedBibs" on page 277
- "Synch_GetUpdatedItems" on page 280
- "Synch_ItemsByBibIDGet" on page 284
- "Synch_ItemByIDGet" on page 289

Patron_GetBarcodeFromID

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

Important:

The barcode node of the return XML document may be empty. This may indicate one of the following conditions:

The patron record has been deleted.

The patron ID does not exist in the Polaris Database.

The patron does not have a barcode assigned.

This method accepts only one patron ID at a time.

This method returns a generic GetBarcodeAndPatronIDResult XML structure (see below).

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

URI

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/patron/barcode?patronid={patronid}`

URI Parameters

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

Name	Required	Description/Notes
		3082 – Spanish 3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
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

Name	Description/Notes
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**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<GetBarcodeAndPatronIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BarcodeAndPatronIDRows>  
    <BarcodeAndPatronIDRow>  
      <PatronID>15</PatronID>  
      <Barcode>1000200000395</Barcode>  
    </BarcodeAndPatronIDRow>  
  </BarcodeAndPatronIDRows>  
</GetBarcodeAndPatronIDResult>
```

Synch_AuthsByIDGet

This method returns a list of authority record IDs and a MARC XML representation of the authority record(s) requested by the user. The specific authorities returned by this method may be specified using a comma delimited list of authority record IDs. Documentation for the MARC XML schema may be found at the Library of Congress:

<http://www.loc.gov/standards/marcxml/>

Important:

No more than 50 authority records may be requested at a time.

Authority record IDs must be numeric.

If an authority record requested does not exist, a row will not be returned.

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

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}`
`/synch/auths/MARCxml?authids={AuthIDList}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 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. Important: The character coding scheme is Unicode.

Example

https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/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">&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:co-
            ntrolfield 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;ma-
            rc: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)
```

```
</marc:subfield></marc:datafield></marc:record></marc:collection>
</AuthorityRecordXML>
</GetAuthsByIDRow>
</GetAuthsByIDRows>
</GetAuthsByIDResult>
```

Synch_BibsByIDGet

This method returns a list of bibliographic record IDs and a MARC XML representation of the bibliographic record(s) requested by the user. The specific bibliographic records returned by this method may be specified using a comma delimited list of bibliographic record IDs. Documentation for the MARC XML schema may be found at the Library of Congress: <http://www.loc.gov/standards/marcxml/>

Important

No more than 50 bibliographic records may be requested at a time.

Bibliographic record IDs must be numeric.

If a bibliographic record requested does not exist, a row will not be returned.

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

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}
/synch/bibs/MARCxml?bibids={BibIDList}`

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
BibIDList	<int>, <int>, <int>	Yes	Bibliographic record IDs

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
GetBibsByIDRows	List of bibliographic record IDs and MARCXML records
GetBibsByIDRow	Container for data
BibliographicRecordID	Bib record ID of the record
BibliographicRecordXML	An HTML Encoded representation of MARCXML data. Important: The character coding scheme is Unicode.
IsDisplayInPAC	Boolean true or false. Indicates if the library wishes the record to display in PAC
CreationDate	The date and time that the record was created in the system.
FirstAvailableDate	The first available date for the bib is the first day the first item linked to the bib becomes available for circulation. This data can be NULL.
ModificationDate	The date and time of last record modification. This data may be NULL.

Example

**https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/sync-
h/bibs/ MARCXML?bibids=1,5,7,9,11**

Header

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

Return

```

<GetBibsByIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <GetBibsByIDRows>
    <GetBibsByIDRow>
      < BibliographicRecordID>1</BibliographicRecordID>
      <BibliographicRecordXML>
        <?xml version="1.0" encoding="UTF-8"?>
          <record xmlns="http://www.loc.gov/MARC21/slim"
            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">
            <leader>||||cam a22|||| a
            4500</leader>
            <controlfield tag="001">16</controlfield>
            <controlfield tag="005">20091119153925.0</controlfield>
            <controlfield tag="008">770331s1977 nyua j 000 1 eng
            u</controlfield>
            <datafield tag="010" ind1=" " ind2=" "
              <subfield code="a">77005747</subfield>
            <datafield tag="020" ind1=" " ind2=" "
              <subfield code="a">02894080</subfield>
            <datafield tag="020" ind1="0" ind2="0"
              <subfield code="a">0525262156</subfield>
            <datafield tag="020" ind1="0" ind2="0"
              <subfield code="a">0525444491</subfield>
            <datafield tag="035" ind1=" " ind2=" "
              <subfield code="a">AAA-0183</subfield>
            <datafield tag="050" ind1="0" ind2="0"
              <subfield code="a">PZ7.C36636</subfield>
            <datafield tag="082" ind1=" " ind2=" "
              <subfield code="a">[E]</subfield>
            <datafield tag="092" ind1=" " ind2=" "
              <subfield code="a">JP Fict</subfield>
            <datafield tag="099" ind1=" " ind2=" "
              <subfield code="a">jP Fict</subfield>
            <datafield tag="100" ind1="1" ind2=" "
              <subfield code="a">Chapman, Carol.</subfield>
          </record>
        </BibliographicRecordXML>
      </GetBibsByIDRow>
    </GetBibsByIDRows>
  </PAPIError>
</GetBibsByIDResult>

```

```

tag="245" ind1="1" ind2="0"><marc:subfield
code="a">Barney Bipple's magic dandelions
/</marc:subfield><marc:subfield code="c">by Carol
Chapman ; pictures by Steven
Kellogg.</marc:subfield></marc:datafield></marc:datafiel-
d tag="260" ind1=" " ind2=" "><marc:subfield code="a">New
York :</marc:subfield></marc:subfield
code="b">Dutton,</marc:subfield></marc:subfield
code="c">c1977.</marc:subfield></marc:datafield></marc:-
marc:datafield tag="300" ind1="0" ind2="0"><marc:subfield
code="a">unp. :</marc:subfield></marc:subfield
code="b">col. ill. :</marc:subfield></marc:subfield
code="c">24
cm.</marc:subfield></marc:datafield></marc:datafield
tag="650" ind1=" " ind2="0"><marc:subfield
code="a">Wishes</marc:subfield></marc:subfield
code="v">Fiction.</marc:subfield></marc:datafield></marc:-
marc:datafield tag="700" ind1="1" ind2=" "><marc:subfield
code="a">Kellogg,
Steven.</marc:subfield></marc:datafield></marc:datafield
tag="999" ind1=" " ind2=" "><marc:subfield code="b">JP
Fict Cha</marc:subfield></marc:subfield
code="c">0</marc:subfield></marc:subfield
code="g">0</marc:subfield></marc:subfield
code="h">0</marc:subfield></marc:subfield
code="i">2</marc:subfield></marc:subfield
code="j">15</marc:subfield></marc:subfield
code="k">0</marc:subfield></marc:subfield
code="x">JP Fict
Cha</marc:subfield></marc:datafield></marc:record>-
</marc:collection>

```

```

</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.

Name	Required	Description/Notes
		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/sync-
h/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:

This method provides information for item records that have a “final” status and are set to display in PAC.

The items must be attached to a bibliographic record that has a status of final and displays in PAC.

An optional parameter “nrecs” may be specified. The parameter allows the user to return a particular number of records.

This method returns a generic AuthIDListGetResult XML structure (see below).

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

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/auths/idlist?startid={startid}&nrecs={numberof records}`

URI Parameters

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

Name	Required	Description/Notes
		3084 – French

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
startid	<int>	Yes	Starting record ID
numberofrecords	<int>	No	Number of record IDs to retrieve

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
AuthIDListRows	List of item record IDs

Name	Description/Notes
AuthIDListRow	Container for data
AuthorityRecordID	The authority Record ID

Example

**https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/auths/idlist?startid=60000**

OR

**https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/auths/idlist?startid=60000&nrecs=150**

Header

**Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml**

Return

```
<AuthIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <AuthIDListRows>  
    <AuthIDListRow>  
      <AuthorityRecordID>807343</AuthorityRecordID>  
    </AuthIDListRow>  
  </AuthIDListRows>  
</AuthIDListGetResult>
```

Synch_GetBibIDList

This method gets a list of bibliographic record IDs from a specified record ID. An optional parameter is available to allow the user to specify the number of record IDs to retrieve. A maximum 1,000 record IDs are returned for each call to this method.

Important:

This method provides information for bibliographic records that have a “final” status. An optional parameter “nrecs” may be specified. The parameter allows the user to return a particular number of records.

This method returns a generic BibIDListGetResult XML structure (see below).

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

URI/

`/protected/{version}/{lang-ID}/{app-ID}/{org-ID}/{access_token}/synch/auths/idlist?startid={startid}&nrecs={numberof records}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 3082 – Spanish 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/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/bibs/idlist?startid=60000`**

OR

`https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/sync-
h/bibs/idlist?startid=60000&nrecs=150`

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

```
<BibIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BibIDListRows>  
    <BibIDListRow>  
      <BibliographicRecordID>600000</BibliographicRecordID>  
    </BibIDListRow>  
  </BibIDListRows>  
</BibIDListGetResult>
```

Synch_GetDeletedAuths

This method returns a list of authority record IDs for records that have been deleted since a specified date and time.

Important:

This method provides information for authority records that have been deleted in the Polaris ILS. This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed. This method returns a generic AuthIDListGetResult XML structure (see below). A call to AuthenticateStaffUser is required before calling any protected methods.

URI

```
/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}  
/synch/auths/deleted?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/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/sync-
h/auths/deleted?deletedate=12/2/2011 13:00:00`**

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return

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

```
  <PAPIErrorCode>0</PAPIErrorCode>
```

```
  <ErrorMessage/>
```

```
  <AuthIDListRows>
```

```
    <AuthIDListRow>
```

```
      <AuthorityRecordID>807343</AuthorityRecordID>
```

```
    </AuthIDListRow>
```

```
  </AuthIDListRows>
```

```
</AuthIDListGetResult>
```

Synch_GetDeletedBibs

This method returns a list of bibliographic record IDs for records that have been deleted since a specified date and time.

Important

This method provides a list of bibliographic records that have been deleted in the Polaris ILS.

This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.

This method returns a generic BibIDListGetResult XML structure (see below).

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

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}
/synch/bibs/deleted?deletedate={deletedate}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 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/sync-
h/bibs/deleted?deletedate=12/2/2011 13:00:00`**

Header

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

Authorization: PWS polarisdev:/uessDsxjU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return

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

```
  <PAPIErrorCode>0</PAPIErrorCode>
```

```
  <ErrorMessage/>
```

```
  <BibIDListRows>
```

```
    <BibIDListRow>
```

```
      <BibliographicRecordID>803851</BibliographicRecordID>
```

```
    </BibIDListRow>
```

```
  </BibIDListRows>
```

```
</BibIDListGetResult>
```

Synch_GetDeletedItems

This method returns a list of item record IDs for records that have been deleted since a specified date and time.

Important:

This method provides a list of item records that have been deleted in the Polaris ILS. This method has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed. This method returns a generic ItemIDListGetResult XML structure (see below).

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

URI

```
/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}  
/synch/items/deleted?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
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/sync-
h/items/deleted?deletedate=12/2/2011 13:00:00`**

Header

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

Authorization: PWS polarisdev:/uessDsxbU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return

```
<ItemIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
  <ItemIDListRows>
    <ItemIDListRow>
      <ItemRecordID>9367071</ItemRecordID>
    </ItemIDListRow>
  </ItemIDListRows>
</ItemIDListGetResult>
```

Synch_GetDeletedPatrons

This method returns a list of patron records that have been deleted since a specified date and time. The return value includes both the patron ID and barcode.

Important:

This method provides a list of patron records that have been deleted in the Polaris ILS. It has a date and time parameter. If the time element is not specified, midnight of the day specified is assumed.

It returns a generic GetBarcodeAndPatronIDResult XML structure (see below).

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

URI

```
/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}  
/synch/patrons/deleted?deleteddate={deleteddate}
```

URI Parameters

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

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Parameters

Name	Value	Required	Description/Notes
deletedate	MM/DD/YYYY HH:MM:SS	Yes	Start date and time (records that have been deleted since this date/time)

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
PatronAndBarcodeIDRows	List of patron record IDs and barcodes
PatronAndBarcodeIDRow	Container for data
PatronID	The PatronID passed in by the user
Barcode	The patron's barcode (if any)

Example

**`https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/patrons/deleted?deletedate=12/2/2011 13:00:00`**

Header

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

Authorization: PWS polarisdev:/uessDsxbU9iY2QJDNJbV+CZ62U=

Content-Type: text/xml

Return

```
<GetBarcodeAndPatronIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <BarcodeAndPatronIDRows>
    <BarcodeAndPatronIDRow>
      <PatronID>15</PatronID>
      <Barcode>1000200000395</Barcode>
    </BarcodeAndPatronIDRow>
  </BarcodeAndPatronIDRows>
</GetBarcodeAndPatronIDResult>
```

Synch_GetItemIDList

This method gets a list of item record IDs from a specified record ID. An optional parameter is available to allow the user to specify the number of record IDs to retrieve. A maximum 1,000 record IDs are returned for each call to this method.

Important:

This method provides information for item records that have a “final” status and are attached to a bibliographic record that has a status of final.

An optional parameter “nrecs” may be specified. The parameter allows the user to return a particular number of records.

This method returns a generic ItemIDListGetResult XML structure (see below).

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

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/items/ idlist?startid={startid}&nrecs={numberofrecords}`

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd party vendors please use the value '100'
org-id	Yes	Is the organization identifier. This value must be system-level (1) or a branch-level organization identifier.
lang-id	Yes	Is the language identifier of the label. Possible values: 1033 – English 1042 – Korean 1066 – Vietnamese 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/sync-
h/items/idlist?startid=60000`**

OR

https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/items/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

```
<ItemIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
<PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>  
<ItemIDListRows>  
<ItemIDListRow>  
<ItemRecordID>9367071</ItemRecordID>  
</ItemIDListRow>  
</ItemIDListRows>  
</ItemIDListGetResult>
```

Synch_GetMaxAuthID

This method returns the maximum authority record ID.

Important:

This method provides information for item records that have a “final” status. It returns a generic AuthIDListGetResult XML structure (see below). A call to AuthenticateStaffUser is required before calling any protected methods.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/auths/maxid

URI Parameters

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

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
AuthIDListRows	List of item record IDs
AuthIDListRow	Container for data
AuthorityRecordID	The authority record ID

Example

**https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tlZPr/sync-
h/items/maxid**

Header

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

Return

```
<AuthIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
< PAPIErrorCode>0</PAPIErrorCode>  
<ErrorMessage/>  
<AuthIDListRows>  
<AuthIDListRow>  
<AuthorityRecordID>807343</AuthorityRecordID>
```

```
< /AuthIDListRow>  
</AuthIDListRows>  
</AuthIDListGetResult>
```

Synch_GetMaxBibID

This method returns the maximum bibliographic record ID.

Important:

This method provides information for bibliographic records that have a “final” status. It returns a generic BibIDListGetResult XML structure (see below).
A call to AuthenticateStaffUser is required before calling any protected method.

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/bibs/maxid

URI Parameters

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

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
BibIDListRows	List of bibliographic record IDs
BibIDListRow	Container for data
BibliographicRecordID	The bibliographic record ID

Example

**https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/bibs/maxid**

Header

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

Return

```
<BibIDListGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <PAPIErrorCode>0</PAPIErrorCode>  
  <ErrorMessage/>  
  <BibIDListRows>  
    <BibIDListRow>  
      <BibliographicRecordID> 852993 </BibliographicRecordID>
```

</BibIDListRow>

</BibIDListRows>

</BibIDListGetResult>

Synch_GetMaxItemID

This method returns the maximum item record ID.

Important:

This method provides information for item records that have a “final” status and are attached to a bibliographic record that has a status of final.

It returns a generic ItemIDListGetResult XML structure (see below).

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

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/items/maxid`

URI Parameters

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

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemIDListRows	List of item record IDs
ItemIDListRow	Container for data
ItemRecordID	The item record ID

Example

**https://[HOSTNAME]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-
h/items/maxid**

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_GetSubscriptionsByID

This method returns a list of serial bibliographic record IDs and an XML representation of the serials subscription information associated with the bibliographic record(s) requested by the user. The information returned by this method may be specified using a comma delimited list of bibliographic record IDs. Data returned may include SHR (Serial Holdings Record) Copy information, Compressed Holdings information, SHR Copy shared public notes, Publication Pattern information, textual holdings information, and Issue/Linked Item information. A third-party discovery interface may use this method to return data when a user clicks a Subscription Information button in the discovery interface.

Important:

No more than 50 bibliographic records may be requested at a time.

Bibliographic record IDs must be numeric.

If a bibliographic record requested does not exist, a row will not be returned.

If serials subscription information does not exist for the record, serials information will not be returned by this method.

A call to AuthenticateStaffUser (see "AuthenticateStaffUser" on page 25) is required before calling any protected methods.

URI

**/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}
/synch/subscriptions/SubscriptionXML?bibids={BibIDList}**

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

Query String Values

{ BibIDList }:

<int>,<int>,<int>

Request Body XML

n/a

XML Body Elements

n/a

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
GetSubscriptionsByIDRows	List of bibliographic record IDs and Subscription XML records
GetSubscriptionsByIDRow	Container for data
BibliographicRecordID	Bib record ID of the record
SubscriptionXMLRecord	An HTML Encoded representation subscription XML Data. Important: The character coding scheme is Unicode.

Example

[https://\[HOSTNAME\]
/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSgy1tlZPr/sync-
h/ subscriptions/SubscriptionXML?bibids=1,5,7,9,11](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPSgy1tlZPr/sync-h/ subscriptions/SubscriptionXML?bibids=1,5,7,9,11)

Header

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

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;Bibliographi-
        cRecordID&gt;&lt;CopyRecords&gt;&lt;CopyRecord&gt;&lt;CopyID&-
        gt;33&lt;/CopyID&gt;&lt;CollectionID&gt;75&lt;/CollectionID&gt;&lt;C-
        ollectionName&gt;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;/CopyNu-
        mber&gt;&lt;DisplayInPAC&gt;1&lt;/DisplayInPAC&gt;&lt;Retention-
        Description&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;Pu-
        blicNote&gt;This is a serials holdings record
        publicnote&#xD&lt;/PublicNote&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;It-
        emRecordID&gt;0&lt;/ItemRecordID&gt;&lt;Barcode
        /&gt;&lt;AssignedBranchID&gt;0&lt;/AssignedBranchID&gt;&lt;Assig-
        nedBranch
        /&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;ShelfLocati-
        on /&gt;&lt;ItemPublicNote

```

></Issue></Issue></Issue></Issue></Issue></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</ShelfLocatio-
nID></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>hf893-
w4qf</Barcode></AssignedBranchID>101</AssignedBranchID></AssignedBranch>Southern Adirondack Library
System</AssignedBranch></AssignedCollectionID>75</AssignedCollectionID></Collection>Magazines</Collection-
></Designation>(Apr. 22 2011)
</Designation></CallNumber>Fict 3 4
5</CallNumber></VolumeNumber>6</VolumeNumber>
</ItemStatusID>15</ItemStatusID></ItemStatus>In-
Process</ItemStatus></ShelfLocationID>0</ShelfLocatio-
nID></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</ShelfLocatio-
nID></ShelfLocation /></ItemPublicNote>Public
Note</ItemPublicNote></Issue></Issue></IssueID>-
404</IssueID></IssuePublicNote /></TitleOfSupIndex
/></IssueStatusId>1</IssueStatusId></IssueStatus>-
Received</IssueStatus></Retained>1</Retained></ItemRecordID>

emRecordID>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>

```

```
</SubscriptionXMLRecord>
```

```
</GetSubscriptionsByIDRow>
```

```
</GetSubscriptionsByIDRows>
```

```
</GetSubscriptionsByIDResult>
```

XML Elements in the Subscription Data

Data Element	Description
Record	Top Level Node
BibliographicRecordID	The Bibliographic Record requested
CopyRecords	A list of copy records (if any) Associated with the Bibliographic Record
CopyID	The Unique ID of the copy record
CollectionID	The collection (if any) assigned to the copy record (0 indicates no collection)
CollectionName	The name of the collection (if any)
CompletenessCode	The completeness code (if any) associated with the copy record

Data Element	Description
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

Data Element	Description
	textual holdings Indicator Level
TextualHoldings	A free text description of the library's holdings
Issues	A list of the issues associated with a publication pattern (if any)
Issue	An Issue record
IssueID	The unique ID of the issue
IssuePublicNote	A public note entered by the library for the issue (if any)
TitleOfSupIndex	The title of a supplement or index (if any)
IssueStatusId	The Issue Status ID
IssueStatus	A description of the issue status
Retained	Indicates if the library has retained this issue
ItemRecordID	The Item Record associated with the issue (if any) (0 = there is not item record attached)
Barcode	The barcode of the item associated with the issue (if any)
AssignedBranchID	The Polaris Organization that holds the item record (if any)
AssignedBranch	The name of the Polaris organization that holds the item record (if any)
AssignedCollectionID	The collection assigned to the item record (if any)
Collection	The name of the collection assigned to the item record (if any)
Designation	Issue/Part's designation. This string is converted from chronology and enumeration values, formats and captions by Polaris. This is usually the string

Data Element	Description
	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>
<PubPatterns>
<PubPattern>
<PubPatternID>967</PubPatternID>
<CategoryID>1</CategoryID>
<Category>Basic Bibliographic Unit</Category>
<EncodLevelH />
<TextualHoldings>Textual Holdings note</TextualHoldings>
<Issues>
<Issue>
<IssueID>399</IssueID>
<IssuePublicNote>Issue Public Note</IssuePublicNote>
<TitleOfSupIndex />
<IssueStatusId>1</IssueStatusId>
<IssueStatus>Received</IssueStatus>
<Retained>1</Retained>
<ItemRecordID>0</ItemRecordID>
```

```
<Barcode />
<AssignedBranchID>0</AssignedBranchID>
<AssignedBranch />
<AssignedCollectionID>0</AssignedCollectionID>
<Collection />
<Designation>(Apr. 22 2009)</Designation>
<CallNumber />
<VolumeNumber />
<ItemStatusID>0</ItemStatusID>
<ItemStatus />
<ShelfLocationID>0</ShelfLocationID>
<ShelfLocation />
<ItemPublicNote />
</Issue>
<Issue>
<IssueID>400</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
<IssueStatusId>1</IssueStatusId>
<IssueStatus>Received</IssueStatus>
<Retained>1</Retained>
<ItemRecordID>9347160</ItemRecordID>
<Barcode>982 r0uo</Barcode >
<AssignedBranchID>101</AssignedBranchID>
<AssignedBranch>Southern Adirondack Library System</AssignedBranch >
<AssignedCollectionID>75</AssignedCollectionID>
<Collection >Magazines< /Collection>
<Designation>(Apr. 22 2010)</Designation>
<CallNumber >Fict 3 4 5</CallNumber >
<VolumeNumber >6</VolumeNumber >
<ItemStatusID>15</ItemStatusID>
<ItemStatus >In-Process</ItemStatus >
<ShelfLocationID>0</ShelfLocationID>
<ShelfLocation />
<ItemPublicNote >Public Note</ItemPublicNote >
</Issue>
<Issue>
<IssueID>401</IssueID>
<IssuePublicNote />
<TitleOfSupIndex />
<IssueStatusId>1</IssueStatusId>
<IssueStatus>Received</IssueStatus>
<Retained>1</Retained>
<
```

```
ItemRecordID>9347161</ItemRecordID>
<Barcode>hf893w4qfe</Barcode>
<AssignedBranchID>101</AssignedBranchID>
<AssignedBranch>Southern Adirondack Library System</AssignedBranch>
<AssignedCollectionID>75</AssignedCollectionID>
<Collection>Magazines</Collection>
<Designation>(Apr. 22 2011)</Designation>
<CallNumber>Fict 3 4 5</CallNumber>
<VolumeNumber>6</VolumeNumber>
<ItemStatusID>15</ItemStatusID>
<ItemStatus>In-Process</ItemStatus>
<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

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/sync-
h/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

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.

Name	Required	Description/Notes
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/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/sync-
h/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

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/rGhOMQjR7MXZuJYREw6TQHPSy1tIZPr/sync-
h/items/updated?updatedate=12/2/2011 13:00:00**

Header

Date: Thu, 8 Aug 2011 22:23:32 GMT
Authorization: PWS polarisdev:/uessDsxxjU9iY2QJDNJbV+CZ62U=
Content-Type: text/xml

Return

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

```
<PAPIErrorCode>0</PAPIErrorCode><ErrorMessage/>
<ItemIDListRows>
<ItemIDListRow>
<ItemRecordID>9367071</ItemRecordID>
</ItemIDListRow>
</ItemIDListRows>
</ItemIDListGetResult>
```

Synch_ItemsByBibIDGet

This method will return all item records attached to a particular bib as requested by the user. The items may be specified by bibliographic record ID.

Important

Only one bibliographic record may be requested at a time.

Bibliographic record IDs must be numeric.

If the bibliographic record requested does not exist, a row will not be returned.

This method is not appropriate for gathering holdings during the context of a catalog search by a library customer; it is meant to be used only during a synchronization process. To get holdings during a search use the public BibHoldingsGet method. See "BibHoldingsGet" on page 45.

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

URI

/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/synch/items/bibid/{Bib_ID}

URI Parameters

Name	Required	Description/Notes
app-id	Yes	Calling application (product) ID - 3rd

Name	Required	Description/Notes
		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

Name	Description/Notes
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

Name	Description/Notes
	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/sync-
h/items/bibid/1**

Header

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

Return

```
<ItemGetResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <PAPIErrorCode>0</PAPIErrorCode>
  <ErrorMessage/>
  <ItemGetRows>
    <ItemGetRow>
      <LocationID>97</LocationID>
```

```
<LocationName>Scotia Branch - Schenectady County Public Library</LocationName>
<CollectionID>0</CollectionID>
<CollectionName/><Barcode>0000408366227</Barcode>
<PublicNote/>
<CallNumber>Fict Hel</CallNumber>
<Designation/>
<VolumeNumber/>
<ShelfLocation/>
<CircStatus>In</CircStatus>
< LastCircDate>Apr 27 2007 </LastCircDate>
<MaterialType>Book</MaterialType>
<TextualHoldingsNote/>
<RetentionStatement/>
<HoldingsStatement/>
<HoldingsNote/>
<Holdable>true</Holdable>
<DueDate/>
<ItemRecordID>572680</ItemRecordID>
<BibliographicRecordID>1</BibliographicRecordID>
<IsDisplayInPAC>true</IsDisplayInPAC>
<CreationDate>2009-07-28T11:57:09.347</CreationDate>
<FirstAvailableDate>2009-07-28T11:57:09.347</FirstAvailableDate>
<ModificationDate>2009-07-28T11:57:09.347</ModificationDate>
</ItemGetRow>
</ItemGetRows>
</ItemGetResult>
```

Synch_ItemByIDGet

This method will return an item record requested by the user. The item may be specified by item record ID.

Important

Only one item record may be requested at a time.

Item record IDs must be numeric.

If the item record requested does not exist, a row will not be returned.

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

URI

`/protected/{version}/{lang_ID}/{app_ID}/{org_ID}/{access_token}/item/{item_ID}`

URI Parameters

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

HTTP Verb

GET

Authorization required?

Yes

Protected method?

Yes

XML Elements Returned

Name	Description/Notes
PAPIErrorCode	PAPI Error code
ErrorMessage	Error or information message
ItemGetRows	List of item data
ItemGetRow	Container for data
LocationID	Location identifier to which this piece is assigned.
LocationName	Location name to which this piece is assigned.
CollectionID	Collection identifier to which this piece is assigned.
CollectionName	Collection name to which this piece is assigned.
Barcode	Barcode assigned to the piece.
PublicNote	Public note of the piece.
CallNumber	Local call number of the piece. Includes VolumeNumber if exists.
Designation	Designation assigned to the piece. If the piece is not associated with serial then this value will be NULL.
VolumeNumber	Volume number assigned to the piece.
ShelfLocation	Shelf location assigned to the piece.

Name	Description/Notes
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/sync-h/item/572680](https://[HOSTNAME]/PAPIService/REST/protected/v1/1033/100/1/rGhOMQjR7MXZuJYREw6TQHPGsy1tIZPr/sync-h/item/572680)

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>410354</BibliographicRecordID>
```

```
<IsDisplayInPAC>true</IsDisplayInPAC>  
<CreationDate>2009-07-28T11:57:09.347</CreationDate>  
<FirstAvailableDate>2009-07-28T11:57:09.347</FirstAvailableDate>  
<ModificationDate>2009-07-28T11:57:09.347</ModificationDate>  
</ItemGetRow>  
</ItemGetRows>  
</ItemGetResult>
```

Synch Methods for 3rd Party Circulation

These protected methods have been developed for use in synchronizing third-party circulation operations with the Polaris database.

See Also:

- "SynchTasksCheckout" below
- "SynchTasksCheckin" on page 297
- "SynchTasksExpireCopy" on page 299
- "SynchTasksNotifyPatron" on page 302
- "SynchTasksNotifyPatronItem" on page 305
- "SynchTasksPullMARCDData" on page 308

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

<i>Name</i>	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

<i>Name</i>	Required	Description/Notes
		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></SynchTasksCheckinRes-
ult>
```

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

Name	Value	Required	Description/Notes
			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></SynchTasksExpireCopy-
Result>
```

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/></SynchTasksNotifyPatron-Result>

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

Name	Required	Description/Notes
		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/></SynchTasksNotifyPatron-  
ItemResult>
```

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.

<SynchTasksPullMARCDData>

<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

</SynchTasksPullMARCDData

HTTP Verb

PUT

Authorization required?

Yes

Example

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

Header

User-Agent: Fiddler

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

Authorization: PWS polarisdev:TKycQwgL+APCicovsRwass4DecU=

Host: localhost

Content-Type: text/xml

Content-Length: 0

Body

<SynchTasksPullIMARCDATA>

<VendorID>3M Cloud Library</VendorID>

<VendorContractID>12345</VendorContractID>

<UniqueRecordID>djhs8</UniqueRecordID>

</SynchTasksPullIMARCDATA>

Return - Success

HTTP/1.1 200 OK

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

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

Return - Failed

HTTP/1.1 401 Unauthorized

WWW-Authenticate: PWS realm="Polaris API"

HTTP/1.1 200 OK

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

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