



Updating Holdings SubFields via API

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What?

Use Case	<ul style="list-style-type: none">• Update single subfields in holdings record with unique content (not batch)
Solution	<ul style="list-style-type: none">• Web utility takes data from CSV file
Language	<ul style="list-style-type: none">• PHP
API	<ul style="list-style-type: none">• BIB

Where We Started

- ▶ Holdings records subfields need to be updated
 - Holdings, example, 866 \$a 1-46(1940-1947)
 - Shelf Location, example, 852 \$z 26A/1
- ▶ Developer Network Tech Blog
 - <https://developers.exlibrisgroup.com/blog/Using-Alma-BIB-API-in-order-to-retrieve-and-update-call-numbers>
 - **But** it uses item barcodes as record identifier
- ▶ Challenge
 - Our journal records don't have items, so no barcodes

Data in CSV File


Bib mms_id	Library	Location	Field	Subfield	New value
990000661030203000	GNRL	phjrn	852	Z	26A/1
990000306670203000	GNRL	phjrn	852	Z	26A/1-2
990000306680203000	GNRL	phjrn	852	Z	26A/2

Process

- [1] Get Bib mms_id from CSV file
- [2] **Retrieve Holdings List (GET)** via Bib mms_id
- [3] Check if Holdings record matches Library + Location -
possible results: more than 1 match (report problem), no
match (report problem), match (use API URI in record for get)
- [4] **Retrieve Holding Record (GET)**
- [5] Update retrieved holdings record XML
- [6] **Update Holding Record (PUT)** with new XML
- [7] Repeat till complete
- [8] Email updated records; no match lines; and multiple
match lines


Holdings XML Structure - Before

```
<holding>  
  <holding_id>2214968040003596</holding_id>  
  <record>  
    <datafield ind1=" " ind2=" " tag="852">  
      <subfield code="b">GNRL</subfield>  
      <subfield code="c">phjrn</subfield>  
      <subfield code="z">28C/12</subfield>  
    </datafield>  
    <datafield ind1=" " ind2=" " tag="866">  
      <subfield code="a">2014-2015</subfield>  
    </datafield>  
  </record>  
</holding>
```



Holdings XML Structure - After

```
<holding>  
  <holding_id>2214968040003596</holding_id>  
  <record>  
    <datafield ind1=" " ind2=" " tag="852">  
      <subfield code="b">GNRL</subfield>  
      <subfield code="c">phjrn</subfield>  
      <subfield code="z">28C/12</subfield>  
    </datafield>  
    <datafield ind1=" " ind2=" " tag="866">  
      <subfield code="a">2014-2015 test</subfield>  
    </datafield>  
  </record>  
</holding>
```



Email Report Examples

- ▶ **Output from Holding Update Utility - Change Succeeded:**
These Holdings records were successfully changed in Alma:
1) 990000329200203596 GNRL phjrn 866 a 2014-2015 test new information
- ▶ **Output from Holding Update Utility - No Match Found:**
No match on library + location was found. Please correct the Holdings record in Alma:
2) 990000317900203596
- ▶ **Output from Holding Update Utility - Too Many Matches Found:**
Too many matches were found on library + location. Please correct the Holdings record in Alma:
3) 990000317900203596

Questions?

- ▶ **Contact me**

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- ▶ **Or the programmer**

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