

# Many Handles Still Not Working

A review of Alma-D objects conducted this summer shows that between 20% to 30% of our object handles DO NOT RESOLVE. I've done quite a bit of investigation and I can find nothing to explain why some objects have valid handles while others do not. It's suggested in Case 07949018 that the proper sequence of operations to make handle assignments work is...

For already existing handles that should be redirected to Primo, it is necessary to

1. Create a set with these records
2. Run the Handle Migration job, using the control number sequence with the prefix used in the existing handles. Even if the records already have handles, this job is needed, as it copies the existing handles from the metadata to the handle identifier in the background.
3. Run the Persistent Handle Identifiers for Digital Resource integration profile on the set, selecting 'Create and Update' as action, and 'Do not add metadata' for the DC METADATA.

I've tried this a few times with NO success, except that the jobs I run always tend to report "SUCCESS!"

## One More Try

I've identified three objects with the following identifiers, handles and status:

ID	MMS_ID	Handle	Handle Status
grinnell:88	991011589491704641	http://hdl.handle.net/11084/88	Works!
grinnell:99	991011507293904641	http://hdl.handle.net/11084/99	Fails
grinnell:32100	991011507142104641	http://hdl.handle.net/11084/32100	Fails

I have poured over the data for these three objects trying to determine why the handle of one resolves, while the other two do not. Initially all three objects had very similar metadata. I have since edited the record for **grinnell:32100** to systematically remove or "correct" metadata that I thought might be causing my inability to assign a handle, but those changes appear to have made no difference.

It should also be noted that objects **grinnell:88** and **grinnell:99** are VERY SIMILAR in structure, metadata, and digital content. Both are from the same collection, and I believe they were migrated and then assigned handles as part of the same jobs.

## Broken Objects In a Set

The two "broken" objects are now part of an itemized set named "Collembola Handle test", set ID **7593466560004641**. I'm using this itemized set to try and assign handles using the suggested process that is documented above. The creation of this set should satisfy Step 1 in that process.

## Step 2 - Running the Handle Migration Job

I've tried to document this portion of the process in screen capture images.

### Control Number Configuration

Sequence List

Sequence Name	Method	Prefix	Next Sequence	Padding
1 Digital.Grinnell Handles	Prefix + Sequence	11084/	1742405379	-

Create a New Sequence

Sequence Name \*

Method \*  Prefix + Sequence

Padding

Sequence Start \*  1

Prefix \*

Add Parenthesis

Add Row

### Run a Job - Select Job to Run

Digital titles  dc:identifier

1 - 2 of 2  Name  Handle

Type : All  Source type : All  Content type : All

	Name	Description	Content Type	Type
1	<input type="radio"/> Export Handles	Update your local Handle server with Alma inventory	Digital title	Export
2	<input checked="" type="radio"/> DG Handle Migration	Digital.Grinnell handle migration task	Bibliographic title	DC Application profile 1 normalization

### Run a Job - Select Set

Digital titles  dc:identifier

1 - 1 of 1  Set name  Collembola

Content Type : All

	Name	Type	Content Type	Content Origin	Create Date
1	<input checked="" type="radio"/> Collembola Handle test	Itemized	Digital titles	Institution only	09/29/2025 07:34:31 CDT

### Run a Job - Enter Task Parameters

Digital titles  dc:identifier

Handles Migration Task

HANDLES MIGRATION

Control Number \*  Digital.Grinnell Handles

Source Field \*  dc:identifier

**General Information**

Job Name: DG Handle Migration - Collembola Handle test - 09/30/2025 11:35:15 CDT

**Set Information**

Set ID: 7593466560004641  
Name: Collembola Handle test  
Set Size: 2

**Schedule**

SCHEDULE THE JOB TO RUN REGULARLY WITH THESE PARAMETERS [?](#)

Frequency:  Hourly  Daily  Weekly  Monthly  Once  Run Now

**API Information**

**Handles Migration Task**

HANDLES MIGRATION

Control Number: Digital.Grinnell Handles [?](#)  
Source Field: dc:identifier

**Scheduled** **Scheduled Manual Jobs** **Running** **History**

1 - 1 of 1 Job ID:  [Search](#)

Job Category: All

Name	Job Category	Creator	Submit Date	Start Date	Progress	Status	Records processed	Records with exceptions	...
DG Handle Migration - 1 Collembola Handle test - 09/30/2025 11:35:15 CDT	Repository	000538225	09/30/2025 11:35:49 CDT	09/30/2025 11:35:49 CDT	N/A	Initializing	-	-	<a href="#">...</a>

**Job "DG Handle Migration - Collembola Handle test - 09/30/2025 11:35:15 CDT" completed.**  
[View job history](#)

The screenshot shows the Alma Monitor Jobs interface. On the left, a sidebar lists navigation options: Alma Production, Acquisitions, Resources, Discovery, Fulfillment, Admin, and Analytics. The main area is titled "Monitor Jobs" and has tabs for Scheduled, Scheduled Manual Jobs, Running, and History. It displays 1 - 20 of 100 jobs. A search bar and filter dropdowns for Job Category (All), Status (All), and Submit Date Range (09/29/2025 - 09/30/2025) are at the top. The table columns include Name, Process ID, Records processed, Job Category, Operator, Submit Date, Start Date, End Date, and Status. Two rows are listed:

	Name	Process ID	Records processed	Job Category	Operator	Submit Date	Start Date	End Date	Status
1	DG Handle Migration - Collembola Handle test - 09/30/2025 11:35:15 CDT	75942393400046...	2	Repository	000538...	09/30/2025 11:35:49 CDT	09/30/2025 11:35:49 CDT	09/30/2025 11:35:50 CDT	Completed Successfully
2	FDI - Load Files vbn	75942319200046	0	Acquisition System		09/30/2025 11:00:04	09/30/2025 11:20:07	09/30/2025 11:20:18	Completed

The screenshot shows the Alma Events Report interface. The sidebar includes options for Digital titles, Identifier, and a search bar. The main area is titled "Events Report" and shows 1 - 2 of 2 events. A filter dropdown is set to "All". The table columns are Event Description, Event Date, Severity, Module, and Creator. Two events are listed:

Event Description	Event Date	Severity	Module	Creator
Record 991011507293904641 was skipped. Reason: BIB record MMS ID 991011507293904641 already has a handle identifier 11084/1742400039	09/30/2025 11:35:50 CDT	Information	Repository	System
Record 991011507142104641 was skipped. Reason: BIB record MMS ID 991011507142104641 already has a handle identifier 11084/1742400245	09/30/2025 11:35:50 CDT	Information	Repository	System

In the above image note that the system reports both objects were "skipped" because they already have existing handles, but per the report, **THEY ARE NOT THE HANDLES WE SPECIFIED**. It appears that these two objects were assigned handles based on the Control Numbering that Alma provides for **new** objects, **NOT OUR NUMBERING scheme!**

Based on the error messages, if I try opening <http://hdl.handle.net/11084/1742400039> it does indeed resolve to object **grinnell:99**. Likewise, <http://hdl.handle.net/11084/1742400245> does indeed resolve to **grinnell:32100**.

In Case 07949018 I was told that...

The message '... already has a handle identifier ...' in the job events for the Handle Migration job can be ignored. It will always display this message for the migration of handles.

| It appears to me that THIS is a key symptom of our problem, if not the cause. **How do we override those errant handles to use the meaningful handles that we assigned years ago?????** And how/why did they get assigned to some objects, but not others, in the first place?

## Step 3 - Running the Persistent Handle Identifiers Job

I'm certain this will NOT work since I've done this many times before, but here goes...

Configuring: Grinnell College Libraries ▾

**Integration Profile List**

1 - 1 of 1 Name - **Persistent**

▼ Integration Type : All ▾

Name	Code	Description	Integration Type	Updated By	Status Date
Persistent Handle 1 Identifiers for Digital Resource	HD	-	Handle	000538225	09/29/2025

Configuring: Grinnell College Libraries ▾

**Integration Profile**

Persistent Handle Identifiers for Digital Resource

**General Information**

**HANDLE INTEGRATION DEFINITIONS**

Active \*  Active  Inactive

Control Number \*

Set name \*

Action \*  Create  Create and Update

Target URL   URL Domain Name \*   Primo View \*

Schedule \*

**MARC METADATA**

Upon Create *	<input type="text" value="Do not add to metadata"/>	
MARC Field *	<input type="text" value="024"/>	Field Indicator <input type="text" value="7#"/> <input type="button" value="Help"/>
Handle Identifier Subfield *	<input type="text" value="a"/>	Handle Identifier Subfield Prefix <input type="text"/> <input type="button" value="Help"/>
Additional Subfield	<input type="text" value="2"/>	Additional Subfield Value <input type="text" value="hdl"/> <input type="button" value="Help"/>

**DC METADATA**

Upon Create *	<input type="text" value="Do not add to metadata"/>
DC Identifier Field Prefix	<input type="text"/> <input type="button" value="Help"/>

The screenshot shows the 'Integration Profile List' page in Alma. The left sidebar has tabs for Alma Production, Acquisitions, Resources, Discovery, Fulfillment, Admin, and Analytics. The main area shows a table with one row:

Name	Code	Description	Integration Type	Updated By	Status Date
Persistent Handle 1 Identifiers for Digital Resource	HD	-	Handle	000538225	09/30/2025

The screenshot shows the 'Integration Profile' configuration page for a 'Persistent Handle Identifiers for Digital Resource'. The left sidebar has tabs for General Information, Actions, and Contact Info. A green success message box is visible on the right.

**HANDLE INTEGRATION DEFINITIONS**

- Active:  Active  Inactive
- Control Number: Digital.Grinnell Handles
- Set name: Collembola Handle test
- Action:  Create  Create and Update
- Target URL: Primo VE
- URL Domain Name: grinnell.primo.exlibrisgroup
- Primo View: 01GCL\_INST:GCL
- Schedule: Not scheduled
- Run button

**MARC METADATA**

Upon Create:	Do not add to metadata		
MARC Field:	024	Field Indicator:	7#
Handle Identifier Subfield:	a	Handle Identifier Subfield Prefix:	
Additional Subfield:	2	Additional Subfield Value:	hdl

**DC METADATA**

Upon Create:	Do not add to metadata
DC Identifier Field Prefix:	

**MODS METADATA**

## Expected Results

IF the process worked as intended, the results would be two working handles:

- <http://hdl.handle.net/11084/99>, and
- <http://hdl.handle.net/11084/32100>

Shortly after this workflow was completed I found that these handles **STILL DO NOT RESOLVE**. This is probably because they already have handles that were errantly assigned to them by Alma's process that provides only sequential numeric handles, which is absolutely NOT what we need in this instance.

