

# OAI Service

Plan for upgrading IU OAI: ([more details](#))

1. Migrate all collections in current OAI provider to use MODS 3.3
2. Add MODS records from Fedora-based collections into the current OAI provider
3. Fix problems with Wright American Fiction and Victorian Women Writers, then add them to the existing OAI provider
4. Move all objects to the Fedora OAI provider. (If the items are not actually present in Fedora yet, metadata-only records may be imported for this purpose.)
  - The new OAI provider will have a stable address, like <http://oai.dlib.indiana.edu/provider?>

[To Do list](#)

[Upgrades needed by OAI set](#)

[Requirements](#) for implementation of optional parts of the OAI protocol for a new data provider for the DLP.

[Validation](#)

## Sample OAI requests

```
verb=Identify
verb=ListMetadataFormats
verb=ListIdentifiers&metadataPrefix=formatX
verb=ListSets
verb=ListRecords&metadataPrefix=formatX
verb=GetRecord&identifier=demo:ItemFive&metadataPrefix=formatX
verb=ListRecords&set=abovetwo&metadataPrefix=oai_dc
```

## Repository support for OAI

- For each OAI set, an object in the "set" PID namespace will be created.
- The set objects will have the "SET" content model identifier.
- Create a new `isMemberOfSet` relationship to use with OAI Set objects
  - For the time being, `isMemberOf` relationship is going to be used
- Define disseminators to list objects belonging to a set

Collection	Collection ID	PID	Set identifier (PID)
Cushman	archives/cushman	iudl:12	set:cushman
U.S. Steel	nw/cra/ussteel	iudl:11	set:ussteel
Hohenberger	lilly/hohenberger	iudl:10	set:hohenberger
Slocum	lilly/slocum	iudl:14	set:slocum
InHarmony	ih/sheetmusic, isl/sheetmusic, ism/sheetmusic	iudl:21/22/23	set:inharmony
DeVincent	lilly/devincent	iudl: 25	set:devincent
Starr	lilly/starr	iudl:24	set:starr
New Harmony	workingmens/branigin	iudl:15	set:workingmens
Wright			set:wright
Victorian Women			set:vwwp
Indiana Magazine of History	imh	iudl:17	set:imh
Hoagy Carmichael	hoagy	iudl:2/3/4/5/6/7/8/9	set:hoagy

## Modifications to existing objects

- Add a `iudl:isMemberOfSet` relationship to their RELS-EXT datastreams
  - We're using this namespace `xmlns:iudl="http://dlib.indiana.edu/lib/xml/infrastructure/rdfRelations#"`
- Add a `schemaLocation` to the descriptive metadata records (MODS, DC and if exists, MARC)
- Define disseminators for items that can return a specific version of a metadata format (e.g. `getMODS?version=3.2`, etc.)
  - This needs some more research
  - Details of multiple versions of metadata formats will need to be discussed.