

# Indexing, Migration to Version 16, and Upgrade Express

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# Recommendation from Ex Libris

Ex Libris **strongly** recommends regeneration of all Aleph indexes during the migration from version 14 or 15 to version 16.

# Why?

- Known changes in structure of indexes:
  - Conversion from Unicode to UTF8 for headings (needed for some version 14 sites)
  - Addition of z01\_normalized\_text field to headings entries (needed for all version 14 sites)
  - Addition of xyz functionality for headings (version 14 and 15 sites)
  - Need to merge z95/950, etc. word indexes (version 14 and 15 sites)
- Unknown “gotchas”

# Options for Reindexing

1. Upgrade Express: Reindexing with minimal production downtime.
  - Will be the default routine built into Upgrade Express.
  - Advantage: Significantly reduced downtime for migration.
2. Classic: Reindexing with the production system down.
  - Disadvantage: Significantly greater downtime during migration.
  - Advantage: Disk space requirements **may** be lower.

# Reindexing with Upgrade Express

Note: There will be two instances of Aleph on the production server:

- 1) The **source** instance. This is the existing version 14 or 15 instance.
- 2) The **target** instance. This is the new version 16 instance.

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# Reindexing with Upgrade Express

## Phase 1

Sometime **before** STP, on the **production** server:

- Complete final preparation of the target instance.
- Export data from all source libraries.  
N.B.: All database updates other than circulation transactions must be stopped during this process.
- Set triggers to log all new and changed doc records in the source instance. A special program saves Z07 records.
- Resume ordinary work in the source version

# Reindexing with Upgrade Express

## Phase 2

Meanwhile ..

- Import source data into the target. Data will be converted as specified in the Upgrade Express setup.
- Regenerate indexes.

# Reindexing with Upgrade Express

## Phase 3

Just before STP:

- Suspend all update of the source other than circulation transactions.
- Re-export all source data.
- Import source data into the target. However, **retain** all indexes created in phase 2.
- Start ue-01 to begin processing of updates from the interim period.

# Reindexing with Upgrade Express

## **Phase 4**

- Stop circulation in the source instance.
- Export circulation-related tables; convert and import them on the target.
- Build circulation-related indexes.

## **Phase 5**

STP is complete. Resume work in version 16.