

Drupal 7 to Drupal 10 Migration Guide

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This guide outlines what parts of a Drupal 7 site can be migrated to Drupal 10 using available tools, and what must be rebuilt using modern Drupal 10 approaches.

What CAN Be Migrated (Codeblock Style)

Feature : Content (Nodes)

Migration : migrate_drupal (core)

Notes : Content types must be created in Drupal 10 before migration. Uses node migrations.

Feature : Users & Roles

Migration : migrate_drupal (core)

Notes : Migrates users with emails, passwords, roles.

Feature : Taxonomy Terms

Migration : migrate_drupal (core)

Notes : Terms from vocabularies must map to new vocabularies already created in D10.

Feature : Files & Images

Migration : migrate_file plugin

Notes : Migrate file usage and optionally attach to media entities.

Feature : Menu Links

Migration : core + manual re-linking

Notes : Top-level menus migrate. Some reordering may be required.

Feature : URL Aliases

Migration : migrate_path plugin

Notes : Path aliases migrate from url_alias table; use Pathauto for rules.

Feature : Content Types

Migration : manual + field mapping

Notes : Define types manually or use config. Field names must match exactly.

Feature : Field Data

Migration : migrate_field plugin

Notes : Field types must be supported and mapped accurately.

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Feature : Webform Submissions

Migration : webform_migrate (contrib)

Notes : Requires Webform installed in D10. Limited field compatibility.

Feature : Blocks (Custom)

Migration : migrate_block_content

Notes : Use custom block migration. Block types must be defined.

Feature : Comments

Migration : migrate_comment

Notes : Comment type and settings must exist before migration.

Feature : User Roles & Permissions

Migration : migrate_role plugin

Notes : Basic permissions migrate. Review custom permissions manually.

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What Cannot Be Migrated - Rebuild Strategies for Drupal 10

WHAT CANNOT BE DIRECTLY MIGRATED - MUST BE REBUILT OR REFACTORED

D7 Feature / Pattern	Reason / Limitation	D10 Equivalent / Rebuild Strategy
hook_menu()	Deprecated in D8+	Use .routing.yml + Controller
PHPTemplate themes	Obsolete syntax	Use Twig + .libraries.yml
hook_block() for custom blocks	No longer supported	Create Block Plugins
Panelizer / Panels (D7)	Major architectural changes	Use Layout Builder or Panels D10
Field Collections	Deprecated module	Use Paragraphs or nested entities
Features-based config	D7-specific, not portable	Use Config Management in core
HTML/PHP in DB (blocks/views)	Unsafe and unsupported	Move to Twig or preprocess
Views with PHP filters	Removed for security	Use contextual filters or access plugins
CCK / custom formatters	Field API overhaul	Rebuild with Field plugins
Legacy contrib modules	May not be ported	Rebuild using modern contrib or custom

COMMON REBUILD STRATEGIES IN D10

D7 Task	Recommended D10 Strategy
Dynamic Menus (hook_menu)	Define in .routing.yml or use MenuLinkContent
Complex Layouts (Panels)	Use Layout Builder, Paragraphs, or Custom templates
Field Collections	Use Paragraphs for repeatable structured data
Role-based content visibility	Use View access filters or Route access checks
Blocks with custom logic	Create Block Plugin class with build() method
Custom registration flows	Use Webform or custom forms with Symfony routing

SECURITY & ARCHITECTURE SHIFTS

D7 Pattern	D10 Equivalent
drupal_set_message()	\Drupal::messenger()->addStatus()
db_query()	Database::getConnection()->select()
template.php procedural code	OOP Services and Event Subscribers
PHP in Views/Blocks	Twig, preprocess hooks, or render arrays
.tpl.php variables	{{ variable }} in .html.twig
No CSRF tokens	All forms in D10 use CSRF protection by default

TOOLS & MODULES TO USE

- migrate, migrate_drupal, migrate_plus, migrate_tools

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- webform_migrate (for Webform data)
- paragraphs_migration (for Field Collections to Paragraphs)
- config_split (for per-environment config)
- upgrade_status (to check site readiness)
- drupal-check and phpstan-drupal (for analyzing custom code)