magmodules



Automation

KatanaPIM for Magento 2

Set up automated synchronization between KatanaPIM and Magento using cron jobs. This guide walks you through enabling automation, configuring schedules, and tuning performance.

Overview

KatanaPIM Connect automates catalog synchronization using two cron jobs:

Cron Job	Purpose	Default Schedule
Full Data Sync	Fetches all data from KatanaPIM API and detects changes	Every 8 hours
Incremental Sync	Syncs pending changes to Magento	Every 5 minutes

This two-phase approach separates data fetching from Magento processing. The Full Data Sync fetches and compares data, while the Incremental Sync handles the actual Magento catalog updates.

Prerequisites

Before enabling automation, ensure:

- The module is **enabled** (Katana PIM → Configuration → General)
- **API credentials** are configured and tested
- **Store language mapping** is set up
- **Attribute mapping** is complete (Katana PIM → Attributes)
- Magento **cron is running** (`bin/magento cron:run` or system crontab)

Step 1: Enable Automation

1. Go to **Stores → Configuration → Katana PIM → Automation**
2. Set **Enable Automation** to **Yes**

This is the master switch. When disabled, all cron jobs skip execution. CLI commands still work regardless of this setting.

Step 2: Configure Auto-Create Settings

These settings control whether cron jobs can create **new** entities or only update existing ones.

Setting	Description	Recommendation

Auto create new products	Allow cron to create new Magento products from PIM	See below
Auto create new categories	Allow cron to create new Magento categories from PIM	See below

Conservative Approach (Recommended for Initial Setup)

Set both to **No**. New products and categories from PIM appear in the Katana PIM grids but are not created in Magento until you manually trigger the sync via mass actions or CLI. This gives you full control over what enters your catalog.

Hands-Off Approach

Set both to **Yes** for fully automated catalog management. Any new product or category added in KatanaPIM will automatically appear in Magento after the next sync cycle.

Tip: Start with the conservative approach. Once you've verified the sync works correctly and your attribute mappings are complete, switch to hands-off.

Step 3: Set Sync Schedules

Full Data Sync

Fetches **all** data from the KatanaPIM API (attributes, categories, products, assets) and stores it in local tables. Data is compared using a hash and marked as `needs_update` when changes are detected.

Available frequencies:

Schedule	Cron Expression	Best For
Every 4 hours	`16 */4 * * *`	Catalogs that change frequently
Every 6 hours	`4 */6 * * *`	Active catalogs with regular updates
Every 8 hours	`33 */8 * * *`	**Default** — good balance for most stores
Daily	`0 4 * * *`	Stable catalogs with few daily changes
Weekly	`0 4 * * MON`	Catalogs updated in batches
Never	—	When only using manual/CLI sync

Incremental Sync

Fetches only **changed** data from the KatanaPIM API (since last sync) and processes all pending updates to Magento. This creates or updates Magento attributes, categories, products, and assets.

Schedule	Cron Expression	Best For
Every 5 minutes	`*/5 * * * *`	**Default** — near real-time updates
Every 15 minutes	`*/15 * * * *`	Moderate update frequency
Hourly	`0 * * * *`	Lower server load
Every 4 hours	`16 */4 * * *`	Large catalogs with batch-style updates
Never	—	When only using manual/CLI sync

Recommended Combinations

Scenario	Full Sync	Incremental Sync
Small catalog (< 5,000 SKUs)	Every 8 hours	Every 5 minutes
Medium catalog (5,000-50,000 SKUs)	Daily	Every 15 minutes
Large catalog (50,000+ SKUs)	Daily or Weekly	Every 15-60 minutes
Infrequent PIM updates	Weekly	Every 4 hours

Step 4: Configure Processing Limits

Processing limits prevent cron jobs from consuming too many resources. These are configured under **Stores → Configuration → Katana PIM → General → Limits → Cron Limits**.

Setting	Default	Description
Max Products per Cron	100	Products processed per incremental cron run
Max Categories per Cron	100	Categories processed per incremental cron run
Max Attributes per Cron	100	Attributes processed per incremental cron run
Max Assets per Cron	100	Assets processed per incremental cron run

Set to **0** for unlimited processing (not recommended for cron).

How Limits Work

If 500 products have pending updates and the limit is 100:

- Run 1: processes products 1-100
- Run 2: processes products 101-200
- Run 3: processes products 201-300
- ...and so on

With a 5-minute incremental schedule, all 500 products sync within approximately 25 minutes.

Tuning Tips

- **Increase limits** if cron runs complete quickly and you want faster sync
- **Decrease limits** if cron jobs overlap, cause timeouts, or impact frontend performance
- Monitor `var/log/katanapim-cron.log` to see how long each run takes

Step 5: Configure Maintenance

Under the **Maintenance** section:

Setting	Default	Description
Sync Log Retention (days)	30	Automatically delete sync log entries older than this. Set to 0 to keep all logs.

The cleanup runs daily at 3:00 AM automatically.

Verify Automation is Working

Check Sync Log

Go to **Katana PIM → Sync Log** to see recent sync activity, including:

- Sync type (Full/Incremental)
- Items created, updated, deleted
- Errors encountered
- Execution time

Check Cron Log File

Review `var/log/katanapim-cron.log` for detailed timing and processing information.

Run Cron Manually

To test if cron is working:

```
bin/magento cron:run --group=katanapim
```

Combining Automation with Manual Sync

Automation and manual operations work side by side:

Method	When to Use
Cron (automated)	Day-to-day synchronization
Admin grid actions	Syncing specific products or categories on demand
CLI commands	Initial imports, large batch operations, troubleshooting

CLI commands ignore automation settings and always run regardless of the Enable Automation toggle.

Useful CLI Commands

```
# Full sync (fetch + process) — no entity limits
bin/magento katana:import:full

# Incremental sync — respects configured limits
bin/magento katana:import:incremental

# Full sync for specific entities only
bin/magento katana:import:full --products
bin/magento katana:import:full --categories --attributes

# Fetch from API without syncing to Magento (troubleshooting)
bin/magento katana:import:full --only-api

# Sync local data to Magento without fetching from API
bin/magento katana:import:incremental --skip-api
```

Troubleshooting

Cron Jobs Not Running

1. Verify Magento cron is active: `bin/magento cron:run --group=katanapim`
2. Check the cron schedule table (see query above)
3. Ensure **Enable Automation** is set to **Yes**
4. Ensure the module is **Enabled** in General configuration

Sync Seems Slow

- Check processing limits — increase if runs complete quickly
- Check `var/log/katanapim-cron.log` for timing breakdown
- Consider adjusting batch sizes under **General → Limits**
- For large initial imports, use CLI instead of cron

Products Not Appearing in Magento

- Verify **Auto create new products** is set to **Yes**
- Check the product in **Katana PIM → Products** grid for errors or skip flags
- Ensure attribute mapping is complete
- Run a full sync to detect all changes: `bin/magento katana:import:full`

Cron Jobs Overlapping

- Decrease processing limits (Max per Cron settings)
- Increase the incremental sync interval
- Check server resources (CPU, memory)

Need More Help?

Documentation:

- All Help Articles - Complete documentation overview

Support:

- Contact Support - Get help from our team

For a complete overview of features and configuration options, see the KatanaPIM extension on magmodules.eu

All articles for KatanaPIM

Installation

1	Installation using Composer (recommended)
2	Install through FTP and SSH

Configuration

1	Quick Start Guide
2	Configuration
3	Categories Grid
4	Attribute Mapping
5	Configurable Products Setup
6	**Automation (current)**

Troubleshooting

1	Troubleshooting

Grids

1	Products Grid
2	Attributes Grid
3	Assets Grid
4	Sync Log Grid

Background

1	CLI Commands

2	Cron Jobs
3	Product to Website Matching
4	Understanding the Sync Process

