

STM Product Attachments — File Downloads, Previews & Auto-Assign Rules for Products

Reference Manual

Technical reference for developers integrating with or extending STM Product Attachments.

1. Overview

This document lists every public extension point of STM Product Attachments: service contracts, admin routes, configuration paths, database schema, ACL resources and supported file formats. It complements the User Guide, which covers day-to-day usage.

2. Module Structure

Module name: STM_ProductAttachments. Composer Installation package: storetown-media/module-product-attachments. path: app/code/STM/ProductAttachments/ (or vendor/storetown-media/module-product-attachments/ when installed via Composer). The module uses PSR-4 autoloading, strict types and no core rewrites — only standard Magento plugin, observer and DI extension points.

3. Service Contracts

The module ships four repository interfaces in STM\ProductAttachments\Api\ . Each follows the Magento repository pattern with save(), getById(), delete(), deleteById() and getList(SearchCriteriaInterface).

Interface	Entity
AttachmentRepositoryInterface	Product attachment records (one per attachment, linked to product SKU).
CategoryRepositoryInterface	Attachment categories (grouping on product page).
FileExtensionRepositoryInterface	Custom file-type definitions (icon, label, badge colour per extension).
RuleRepositoryInterface	Auto-assign rules with conditions and target file.

All interfaces can be replaced via DI preference or extended via plugins.

4. Admin Routes

All admin routes share the frontName stm_attachment.

Route	Action
stm_attachment/manage/index	Central attachment grid.
stm_attachment/manage/edit	Attachment edit form.
stm_attachment/manage/save	Save edit form (POST).
stm_attachment/manage/delete	Delete one attachment.
stm_attachment/manage/massDelete	Mass delete (POST).
stm_attachment/manage/massCategoryAssign	Mass category assign (POST).
stm_attachment/rule/index	Auto-Assign Rules grid.
stm_attachment/rule/edit	Rule edit form.
stm_attachment/rule/save	Save rule form (POST).

Route	Action
stm_attachment/rule/apply	Apply a single rule immediately.
stm_attachment/rule/massApply	Apply multiple rules (POST).
stm_attachment/rule/massDelete	Mass delete rules (POST).
stm_attachment/import/index	Import form.
stm_attachment/import/process	Handle the CSV upload (POST).
stm_attachment/attachment/massAssign	Mass-assign form (opened from product grid).
stm_attachment/attachment/massAssignPost	Handle mass-assign submit (POST).
stm_attachment/attachment/upload	AJAX file upload endpoint.
stm_attachment/category/index	Category grid.
stm_attachment/category/save	Save category (POST).
stm_attachment/category/delete	Delete category.
stm_attachment/extension/index	File extension grid.
stm_attachment/extension/save	Save file extension (POST).
stm_attachment/extension/iconUpload	AJAX icon upload endpoint.
stm_attachment/extension/delete	Delete file extension.

5. Frontend Routes

Route	Purpose
productattachments/download	Streams the attachment file and increments the download counter.
productattachments/preview	Returns a preview-safe URL for PDF iframe and image modal.

6. Configuration Reference

All configuration values live under the `stm_attachments/` path and are scope-aware down to the store view.

Config path	Description
<code>stm_attachments/general/enabled</code>	Master toggle for the module.
<code>stm_attachments/general/tab_title</code>	Title of the frontend attachments tab.
<code>stm_attachments/file/allowed_extensions</code>	Comma-separated list of allowed extensions.
<code>stm_attachments/file/max_file_size</code>	Maximum upload size in MB.
<code>stm_attachments/display/show_file_size</code>	Show file size column in the frontend table.
<code>stm_attachments/display/show_file_icon</code>	Show file type icon / badge column.
<code>stm_attachments/display/show_download_count</code>	Show download counter column.
<code>stm_attachments/display/open_in_new_window</code>	Open download links with <code>target="_blank"</code> .
<code>stm_attachments/display/sort_by</code>	Sort criterion for the frontend list.
<code>stm_attachments/display/group_by_category</code>	Group attachments by category on the product page.
<code>stm_attachments/display/enable_preview</code>	Enable the inline preview modal.
<code>stm_attachments/categories/items</code>	Dynamic-row list of category definitions.
<code>stm_attachments/extension_icons/items</code>	Dynamic-row list of custom file-extension definitions.
<code>stm_attachments/rules/cron_enabled</code>	Enable nightly cron execution of all active rules.
<code>stm_attachments/access/restrict_to_customer_groups</code>	Enable customer-group restriction.
<code>stm_attachments/access/allowed_customer_groups</code>	Comma-separated list of allowed group IDs.
<code>stm_attachments/access/guest_access</code>	Allow unauthenticated visitors to download.

7. Database Schema

All four tables are created via declarative `etc/db_schema.xml`. No Magento core tables are modified.

Table	Purpose
<code>stm_product_attachments</code>	One row per product-attachment link. Columns include <code>product_id</code> , <code>file_path</code> , <code>title</code> , <code>category_id</code> , <code>sort_order</code> , <code>video_url</code> , <code>download_count</code> , <code>store_id</code> , <code>created_at</code> , <code>updated_at</code> .
<code>stm_attachment_categories</code>	Category master data: <code>entity_id</code> , <code>name</code> , <code>sort_order</code> , <code>store_id</code> , <code>created_at</code> , <code>updated_at</code> .
<code>stm_attachment_file_extensions</code>	Custom file-type definitions: <code>entity_id</code> , <code>extension</code> , <code>label</code> , <code>icon_path</code> , <code>color (hex)</code> .
<code>stm_attachment_rules</code>	Auto-assign rule master data: <code>entity_id</code> , <code>name</code> , <code>is_active</code> , <code>conditions (JSON)</code> , <code>file_path</code> , <code>title</code> , <code>category_id</code> , <code>apply_on_save</code> , <code>last_applied_at</code> .

8. ACL Resources

Resource	Guards
<code>STM_ProductAttachments::attachments</code>	Parent group for all admin menus under Catalog.
<code>STM_ProductAttachments::manage</code>	Manage Attachments grid and edit form.
<code>STM_ProductAttachments::categories</code>	Attachment categories CRUD.
<code>STM_ProductAttachments::file_extensions</code>	File Extension Icons CRUD.
<code>STM_ProductAttachments::rules</code>	Auto-Assign Rules CRUD and apply.
<code>STM_ProductAttachments::import</code>	CSV import form and process.
<code>STM_ProductAttachments::config</code>	System configuration section.

9. Supported File Types

Out of the box, the uploader accepts the following extensions (configurable under *File Settings*):

Category	Extensions
Documents	pdf, doc, docx, xls, xlsx, ppt, pptx, txt, csv
Images	jpg, jpeg, png, gif
Archives	zip, rar
Video (by URL / upload)	YouTube URL, plus direct mp4 / webm via the upload field

10. File Storage

Uploaded files are stored under `pub/media/stm/attachments/`. Custom file-extension icons are stored under `pub/media/stm/extension_icons/`. CSV import expects the source files under `pub/media/import/attachments/`. All paths are relative to the Magento `pub/` directory.

11. Licensing

STM Product Attachments is distributed as a commercial Magento 2 / Adobe Commerce extension under the Storetown Media Commercial License. A valid license, acquired through the Adobe Commerce Marketplace or directly from Storetown Media, grants the licensee a non-exclusive, non-transferable right to install and use the software on the number of production and non-production environments specified in the license terms. Full terms are included in `LICENSE.txt` in the module root.

12. Support

Support is provided by Storetown Media through the Adobe Commerce Marketplace support link on this listing. Expected response time is within two business days.