

Adobe/SHRSS KT Session: Tagging, Taxonomy & Metadata Governance

Authoritative references used:

- [Taxonomy and tagging best practices for AEM Assets](#)
 - [Tags, taxonomy, and metadata best practices: high-level summary \(Site hierarchy\)](#)
 - Content package: `/SHRSS_Knowledge_Transfer/Content/shrss-content-minimal-assets-PROD-1.0`
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1. Tag Taxonomy

1.1 How taxonomy was configured for this implementation

- **Taxonomy root:** Tags are stored under the standard AEM taxonomy root: `/content/cq:tags/shrss`, under the **shrss** namespace for SHRSS-specific tags.
- **Path-to-tag mapping (site/content context):**
 - The implementation uses the custom **TagsPathMappingConfigService**, which reads a path-to-tag mapping from an **ACS Commons Generic List** at `/etc/acs-commons/lists/path-tags-mapping/jcr:content/list`.
 - Each list item has:
 - **jcr:title** = content path (e.g. site or section path)
 - **value** = tag ID (e.g. a tag under the taxonomy)
 - This allows the system to **derive tags from the current page path** (e.g. for alerts or context-specific content) without authors selecting tags manually on every page.
 - **Content Fragments and assets:**
 - Content Fragments and DAM assets store tag references in metadata:
 - For CFs, the **categories** field (multi-value) holds tag IDs used for filtering in dynamic lists.
 - DAM assets use the standard **cq:tags** property on `jcr:content/metadata` (with `cq:Taggable` mixin).
 - Examples:
 - `shrss:regions/latam`
 - `shrss:event-categories/entertainment`
 - **Tag namespaces in use (from code and test data):** `shrss` (e.g. `shrss:regions/apac`, `shrss:event-categories/entertainment`, `shrss:hotel/new-york`), and standard OOTB namespaces such as `properties` (e.g. `properties:orientation/portrait`).
 - Spreadsheet:

1.2 How tags are structured across Brand / LOB / Property

- **Namespace as top level:** Under `/content/cq:tags/shrss`, tags can be organized by brand, LOB, or property using **child tag hierarchies** (e.g. regions, event-categories, hotel/property names).
- **Observed structure (from implementation and test data):**
 - **Region/destination:** e.g. `shrss:regions/latam`, `shrss:regions/apac`
 - **Event/content type:** e.g. `shrss:event-categories/entertainment`
 - **Property/venue:** e.g. `shrss:hotel/new-york`
- **Path-tag mapping:** The ACS Commons list maps **site/section paths** to **tags**, so a given brand or property section can be associated with one or more tags for automatic context (e.g. which alerts or content to show). This supports “tags by brand/LOB/property” without duplicating taxonomy; the same tag taxonomy is reused and mapped per path.

1.3 Best practices and taxonomy strategy

- **Sites (hierarchy and governance):** Use folder structure and permissions to control who can access which areas; use tags for **structural metadata** (categorization, related content, navigation). Prefer a **defined taxonomy** over ad-hoc tags to keep search and filtering predictable. See [Site hierarchy, taxonomy, and tagging guide](#).
- **Assets:** Use a **hierarchical taxonomy** (namespaces → tags → sub-tags) so authors can select from consistent keywords; this improves findability and faceted search. Make taxonomy **additive to** (not duplicative of) folder structure and metadata. Consider **Smart Tags** to reduce manual tagging. Govern who can create/edit tags via permissions. See [Taxonomy and tagging best practices for AEM Assets](#).
- **SHRSS-specific:** Keep path-tag mapping in the ACS Commons list documented and maintained when site structure or brands change. Use the **shrss** namespace for all SHRSS-specific taxonomy; use standard namespaces (e.g. **properties**) only where they add value (e.g. orientation, format).

2. Tag Management

2.1 Governance — Rules for tag governance (who creates, who maintains, who approves)

- **Recommended model (align to your organization):**
 - **Create:** Limit tag creation to a small group (e.g. admins or a “taxonomy steward”) so the hierarchy stays consistent.
 - **Maintain:** Designate owners per namespace or domain (e.g. regions, event-categories); they review and prune unused or duplicate tags.
 - **Approve:** For sensitive or brand-critical namespaces, require approval before new tags go live

(process outside AEM or via workflow if needed).

- **AEM mechanics:** Use **permissions on the tag tree** (`/content/cq:tags`) to restrict create/update/delete by group. Restrict the **path-tag mapping list** (`/etc/acs-commons/lists/path-tags-mapping`) to admins so only authorized users change which paths map to which tags.
- **Documentation:** Keep a short governance doc: who can create/edit tags, who maintains the path-tag list, how to request new tags or mappings, and where the taxonomy is documented (e.g. Tagging console, spreadsheet, or wiki).

2.2 Creating, updating, deleting tags

- **Creating:** Tagging console → select parent namespace or tag → Create Tag. Provide **Title** (and optional **Name, Description**). For SHRSS, create under `/content/cq:tags/shrss` or the appropriate sub-hierarchy.
- **Updating:** Tagging console → select tag → Edit. Change Title/Name/Description. Moving tags (Move) can break references; plan and communicate.
- **Deleting:** Tagging console → select tag → Delete. Container tags may require children to be moved or deleted first. **References** should be reviewed before delete so content is retagged if needed.
- **Publishing:** Tags must be **published** to be available on publish; use Publish/Unpublish from the Tagging console. Path-tag mapping content (ACS Commons list) must also be published if author and publish use it.

2.3 Best practices

- **Standardize:** Use a single vocabulary/glossary
- **Avoid synonyms and near-duplicates:** Avoid synonyms as separate tags unless using thesaurus features.(e.g., don't have both `footwear` and `shoes` for the same concept).
- **Create namespaces:** for major domains: `brand`, `product`, `experience`, `audience`, etc.
- **Keep hierarchies shallow but expressive:** – more like 3–5 levels, not 10.
- **Avoid over-tagging:** Too many tags per asset/page dilutes value; define guidelines (e.g. max tags per content type).
- **Re-evaluate:** Periodically audit tag usage and merge or retire unused tags.
- **Control who can create tags:** no ad-hoc tags from every author.
- **Periodically review and refactor:** merge, deprecate, localize.
- **Path-tag list:** Treat the ACS Commons path-tag list as governed configuration; change only with approval and document each path-tag pair for troubleshooting.

3. Application of Tags in SHRSS Authoring & Asset Management

3.1 Component and asset metadata mapping

- **Assets (DAM):** Metadata schema is defined at `conf/global/settings/dam/adminui-extension/metadataschema/shrssmetadataschema`. The **Tags** field is typically bound to `jcr:content/metadata/cq:tags`. Authors pick tags from the taxonomy when editing asset metadata; tags are stored as string array on the asset.
- **Content Fragments:** CF models (e.g. News, Events) include a **categories** field that stores tag IDs. This is used by **CF Card List** and related components to filter by tags. Map this field in the CF model to the same taxonomy used in the Tagging console.
- **Pages:** Page properties can expose **Tags/Keywords** (cq:tags) for SEO and for components that use page context (e.g. Alert Aggregator uses path-tag mapping derived from current page path).
- **Path-tag mapping:** Not a component field; it is authoring-time configuration in the ACS Commons list. It maps **paths** (e.g. `/content/shrss/hotel/en/...`) to **tag IDs** used by backend services (e.g. `TagsPathMappingConfigService.getAllTagsByPath(currentPage.getPath())`).

3.2 How tags impact dynamic content queries

- **CF Card List (listType = tags):** When authors choose **List by tags**, they configure **tagsList** (tag IDs) and **tagsRootFolder** (e.g. `/content/dam/shrss`). The backend builds a Query Builder map that:
 - Restricts to DAM assets that are Content Fragments under the root folder.
 - Filters by **content fragment model** (e.g. Event, News).
 - Adds **group property** conditions on the **categories** property matching each tag in **tagsList** (OR logic between tags).
So only CFs whose **categories** metadata contains at least one of the selected tags appear in the list.
 - `shrss/news-categories/featured-news`
 - <https://author-p135156-e1336227.adobecloud.com/ui#/aem/editor.html/content/shrss/corporate/hardrock/en/blog.html>
- **Path-derived tags:** **Alert Aggregator** uses service to get tags for the current page path, then uses those tags to decide which alerts to show. So **path-tag mapping** directly drives which content appears on a given page/section.
 - `TagsPathMappingConfigService.getAllTagsByPath(currentPage.getPath())`

3.3 Category filters

- **CF Card List:** The same **tagsList** used for the list query can be exposed as category filters in the UI (e.g. news search result filters by category/tag). Tag titles are resolved via **TagUtils.getTagTitleMapByTagNames** / **TagManager** for display.
- **Asset search:** In Assets, the Tags predicate in search (e.g. Search Rail) can be configured with a **root tags path** (e.g. `/content/cq:tags/shrss`) so authors filter by the SHRSS taxonomy.

3.4 Search results

- **Assets:** Tags are indexed with asset metadata; search on `jcr:content/metadata/cq:tags` (or equivalent) returns assets that have the given tag(s). Match-all vs match-any is configurable in the Tags predicate.
- **Content Fragments:** The **categories** field is part of CF metadata and is queryable; tag-based CF lists and search use this for filtering.
- **Pages:** If page properties store `cq:tags`, those can be used in page search and for SEO (meta keywords).

3.5 Content inheritance across sites

- **No JCR inheritance of tags:** Tags are not inherited from parent pages by default; each page/asset holds its own tag references.
- **Path-tag mapping as “inheritance”:** The path-tag list effectively encodes “sections of the site and their tag context.” When a page’s path is under a mapped path, **getAllTagsByPath** returns the tags for that path (and any parent path that has a mapping). So “inheritance” of tag context is via **path prefix matching** in the mapping list, not via JCR hierarchy.

3.6 Card and page visibility

- **Cards (CF Card List):** Visibility is driven by **tagsList** and **tagsRootFolder** plus CF model type. Only CFs with matching **categories** (tags) under the root folder appear. Wrong or missing tags on CFs, or wrong `tagsList/tagsRootFolder` on the component, will hide cards.
- **Page visibility:** For components that use **path-tag mapping** (e.g. Alert Aggregator), visibility depends on the current page path having a mapping and the mapped tags matching the content (e.g. alert tags). Missing or incorrect path-tag entries will cause content not to appear on that section.

4. Additional Topics (brief)

- **Tag performance (query efficiency, indexing):** Tag properties are indexed when standard AEM/Oak indexing is used. Queries that filter by `cq:tags` or CF **categories** should use indexed properties; avoid large OR sets of tags in a single query when possible. Path-tag mapping is a small list read once per request; keep the list size reasonable.
- **Troubleshooting content not appearing in listings/filters:** (1) Confirm the CF or asset has the expected tags in **categories** or **cq:tags**. (2) Confirm component config: **tagsList**, **tagsRootFolder**, and list type (e.g. tags vs fixed list vs root path). (3) For path-driven content (e.g. alerts), confirm path-tag mapping exists for the page path and is published. (4) Confirm tags are published. (5) Check Query Builder or service logs if queries return no results.
- **Scheduling or lifecycle states:** Tags themselves do not change with scheduling; they are static metadata. If “visibility” is time-based, that is usually implemented via **publish date / end date** on the CF or page, or via workflow state, not via tag changes. Tags can still be used **together** with date filters (e.g. Event CF list filtered by tag and by event date range).

Appendix A: Asset Metadata Fields Configured for Tag Selection

Source: `/conf` in content package

`Content/shrss-content-minimal-assets-PROD-1.0/jcr_root/conf`

All metadata fields below use a **tagfield** dialog field element (values selected from the tag taxonomy). Widget: `cq/gui/components/coral/common/form/tagfield` with `metaType="tags"`.

1. DAM Asset Metadata Schema (Assets UI)

Configuration path:

`/conf/global/settings/dam/adminui-extension/metadataschema/shrssmetadataschema`

Applied to assets in the Assets console (metadata form). Stored under `jcr:content/metadata/`.

Field label	Metadata property	Tag root path (selection scope)
Tags	<code>cq:tags</code>	<i>(not set – full taxonomy)</i>
Brand	<code>shrssbrands</code>	<code>/content/cq:tags/shrss/brands</code>
Venues & Branded Experiences	<code>shrssvenues</code>	<code>/content/cq:tags/shrss/venues-and-branded-experiences</code>
Line of Business	<code>shrsslob</code>	<code>/content/cq:tags/shrss/lob</code>
Property Names (Locators / City Drop)	<code>shrssproperty</code>	<code>/content/cq:tags/shrss/properties</code>
Type	<code>shrssstype</code>	<code>/content/cq:tags/shrss/type</code>
Category	<code>shrsscategori</code>	<code>/content/cq:tags/shrss/category</code>
Product	<code>shrssproduct</code>	<code>/content/cq:tags/shrss/products</code>

2. Content Fragment Models (CF authoring)

Configuration path:

`/conf/shrss/settings/dam/cfm/models/<model>`

Used when editing Content Fragments. Values stored in the CF model data (e.g. `jcr:content/data/master/`).

Events model

`conf/shrss/settings/dam/cfm/models/events`

Field label	Property name	Tag root path
Categories	<code>categories</code>	<code>/content/cq:tags/shrss/event-categories</code>

News model

conf/shrss/settings/dam/cfm/models/news

Field label	Property name	Tag root path
Categories	categories	/content/cq:tags/shrss
Tags	tags	/content/cq:tags

Summary list (all metadata fields that use tag selection)

1. **DAM metadata (shrssmetadataschema):** Tags (cq:tags), Brand (shrssbrands), Venues & Branded Experiences (shrssvenues), Line of Business (shrsslob), Property Names (shrssproperty), Type (shrstype), Category (shrsscategory), Product (shrssproduct).
2. **Content Fragment – Events:** Categories (categories) — root: shrss/event-categories.
3. **Content Fragment – News:** Categories (categories) — root: shrss; Tags (tags) — root: full taxonomy.

Note: “Smart Color Tags” and “Smart Tags” (predictedTags) are tag-related but not manual tag selection; they are system/AI-driven and are not included in this list.

Appendix B: Tagging versus Asset Metadata

Overview

- **Metadata** = structured properties *about* an asset (title, campaign, usage rights, SKU, dates...). In AEM Assets these are defined and surfaced via **metadata schemas** and profiles, stored under jcr:content/metadata on the asset node.
- **Tags** = reusable **taxonomy terms** (cq:Tag) applied as metadata (usually cq:tags) to categorize content by business concepts (region, product, audience, theme). They create flexible, hierarchical classification across Sites and Assets.
- **When to use what**
 - Use **metadata fields** for *fixed, well-defined attributes* that behave like columns in a table (single source of truth, integrations, governance, permissions).
 - Use **tags** for *business taxonomy* and *faceted discovery* (findability, related content, navigation, personalization).
- Authors see both in the same properties dialog: **fields** (text, dropdowns, dates...) vs. **tag pickers**. Technically both end up as metadata; the difference is whether the value comes from a **schema field** or from the **central tag taxonomy**.

What is asset metadata in AEM?

From AEM's perspective, asset metadata is:

- Data stored primarily under `assetPath/jcr:content/metadata` on a `dam:Asset` node, using standard namespaces like `dc:*`, `xmp:*`, `tiff:*`, plus custom properties.
- Used to answer questions like:
 - **What is this?** (title, description, format)
 - **Who is it for / about?** (audience, brand, market, persona)
 - **Where and how can it be used?** (license, channels, regions)
 - **When is it valid?** (valid from/to, campaign dates)

Metadata is the **backbone of structured content** in Assets – essential for search, automation, personalization and governance. [“Metadata best practices for AEM Assets”](#) and [“Metadata overview”](#) confirm this.

What is tagging in AEM?

Note

The official “Tags, Taxonomy, and Metadata Best Practices” guide calls tags **pre-defined terms** that normalize how content is described and power faceted search, related content, SEO, etc. [“Site Hierarchy, Taxonomy, and Tagging Guide”](#).

Tags in AEM are:

- Nodes of type `cq:Tag` stored in the tag taxonomy (namespaces + hierarchies).
- Applied to assets and pages via properties like `cq:tags` and used for organizing, searching, navigation, personalization, etc. See **Using Tags** and **Administering Tags** for AEMaaCS Sites and Assets [“Using Tags”](#), [“Administering Tags”](#).
- Architecturally a **global, reusable vocabulary** independent of any single asset or page. The taxonomy can be centrally governed and reused across:
 - Assets (DAM)
 - Sites pages and Experience Fragments
 - Content Fragments/headless content
 - Content Hub / external consumers via `xcm:keywords` mappings [“Taxonomy management in Assets view”](#).

Relationship: tags *are* metadata, but not all metadata are tags

Architecturally:

- Tags are *implemented as metadata* (usually `cq:tags` string array), and AEM's search/indexing treats them as such.
- But conceptually, tags are the **controlled vocabulary layer** on top of raw fields – a reusable semantic

layer across many assets/pages.

- Metadata schemas define *where* tags are stored and *how* they are presented to authors (Tag field vs. text, dropdown, etc.) [“Metadata schemas”](#).

Choose a *metadata field* when...

Use a schema field (text, dropdown, date, boolean, etc.) when the attribute is:

1. Object-like and single-source-of-truth

- IDs: SKU, product code, asset ID, campaign ID.
- Legal / regulatory: license ID, contract number.

2. Strongly typed or constrained

- Dates (start/end), numeric values, booleans, fixed enums.
- Data that is validated or used in external systems / integrations.

3. Operational or system-internal

- Workflow state, approval status, archival flag, retention classification.
- Permissions drivers (metadata-driven permissions in AEMaaCS) [“Metadata-driven permissions”](#).

4. Not meant for faceted navigation across many content types

- For example, an internal “Upload Batch ID” or “Ingestion Source” that rarely drives end-user filters.

5. Needs to be different per schema / per folder

- Specific metadata only applicable to product assets vs. brand imagery, etc.

Examples where metadata fields are better than tags

Use case	Recommended implementation
Product SKU / variant code	Custom text field <code>commerce:sku</code> in schema
License expiration date	Date field <code>xmpRights:ExpirationDate</code>
Rights territory	Controlled dropdown, possibly multi-select
Campaign ID / Salesforce ID	Text field, validated, used in downstream systems
Internal lifecycle flags	Boolean or enum fields (Approved, Archive, etc.)

Choose *tags* when...

Use tags when the attribute is:

1. Taxonomic / conceptual

- Product categories, collections, themes, genres, topics.
- Audiences (musicians, families, loyalty tiers).

- Locations as conceptual facets (e.g. “Latin America” vs. precise geo-code).

2. Shared across many content types and systems

- You want one global vocabulary for assets, pages, CFs, Content Hub, etc.
- You plan to reuse the same facets for navigation, recommendations, personalization.

3. Many-to-many and evolving

- An asset can belong to multiple campaigns, audiences, themes.
- Business wants to extend/refine the taxonomy without touching code/schemas.

4. Driving discovery, not transactionality

- Faceted search filters (“Region”, “Brand”, “Season”).
- Related content, “More like this”, “browse by theme”.

5. Useful for non-technical governance

- Taxonomy and tag governance can be managed by business owners, with roles and permissions, without schema changes [“Taxonomy and tagging best practices for AEM Assets”](#).

Examples where tags are better than metadata fields

Use case	Recommended implementation
Brand / Sub-brand facets	<code>brand:hard-rock/cafe</code> , <code>brand:hard-rock/hotel</code> tags
Experience type (dining, gaming, live)	<code>experience:dining</code> , <code>experience:gaming</code> , <code>experience:live</code>
Campaign / initiative themes	<code>campaign:summer-2026</code> , <code>campaign:grammys</code>
Audience segments	<code>audience:families</code> , <code>audience:vip</code> , <code>audience:locals</code>
Content topics	<code>topic:music/rock</code> , <code>topic:food/burgers</code>

Common combination patterns

You often use **both**:

• Product images

- Metadata: `commerce:sku`, `commerce:color`, `dc:format`, license dates.
- Tags: product category, collection, season, region.

• Campaign hero images

- Metadata: campaign code, start/end date, legal disclaimers.
- Tags: campaign name, audience, channel, theme, region.

• Restaurant / hotel photography

- Metadata: location code, photographer, usage rights.

- Tags: property, venue type (pool, bar, lobby), time of day, mood.