

PIMS (ISO/IEC 27701) Accelerator for Confluence — Technical Guide

1. Overview

This app creates a ready-to-use Privacy Information Management System (PIMS) aligned with ISO/IEC 27701. It generates root governance pages, section landing pages, and a full catalog of control pages for Clause 7 (PII Controllers) and Clause 8 (PII Processors). Each control page contains an audit-ready template with:

- **Control Summary**
- **Purpose**
- **Implementation Guidance**
- **Business Sections to Complete**
- **Risks & Gaps**
- **Evidence & References**

Scope: Confluence Cloud (Forge)

Primary outcome: Structured PIMS space for collaboration, ownership, and audit evidence

Standards mapping: Clause 7 (A.7.2.1–A.7.5.4) and Clause 8 (B.8.2.1–B.8.5.8)

Generation: Safe-by-default batching (1 page per call) to avoid timeouts

2. Architecture

Layers:

- **UI (Global Page):** Space-key input, options, progress display.
- **Backend (Resolver handlers in `src/index.js`):** Implements start and batched generation.
- **APIs:** Confluence v2 REST (`/wiki/api/v2/spaces`, `/wiki/api/v2/pages`).
- **Storage:** `@forge/api` storage used to persist workspace IDs and batch indices.

Resolver functions:

`startPIMS`, `generatePIMSBatch`, `startGeneration` (alias), `generateControlsBatch` (alias), `generateControllersBatch`, `generateProcessorsBatch`

Storage keys:

`spaceId`, `controllersRootId`, `processorsRootId`, `controllerSectionIds`, `processorSectionIds`, `ctrlIndex`, `procIndex`

3. Permissions & Manifest

Minimum Forge manifest scopes:

```
permissions:
  scopes:
    - read:space:confluence
    - write:confluence-content
```

4. Content Model

Root pages created:

- PIMS Workspace (ISO/IEC 27701) — Welcome & usage
- Scope & Roles (PII Controller / Processor)
- Policies & Governance (PIMS)
- Records & Logs (PIMS)
- Clause 5 — PIMS requirements
- Clause 6 — PIMS guidance
- Controllers (Clause 7 + Annex A) — sections 7.1–7.5
- Processors (Clause 8 + Annex B) — sections 8.1–8.5

Controller catalog: All A.7.2.1–A.7.5.4 including A.7.3.1–A.7.3.10 and A.7.4.1–A.7.4.9.

Processor catalog: All B.8.2.1–B.8.5.8 including B.8.4.1–B.8.4.3 and B.8.3.1.

5. Page Template (applied to every control)

- **Control Summary** — Annex A/B one-liner
 - **Purpose** — intent & outcome
 - **Implementation Guidance** — organizational/technical practices
 - **Business Sections** — Process Description, RACI, SOP Links, Tools, Training, KPIs, Exceptions
 - **Risk & Gap Tracking** — risk log table
 - **Evidence & References** — policies, contracts, logs, tickets, screenshots
-

6. Generation Flow

1. User opens Global Page UI, enters space key, clicks Generate.
2. `startPIMS` resolver creates root & section pages, saves IDs.
3. UI loops over `generatePIMSBatch` (or controller/processor-specific batches).

4. Each batch creates exactly one control page (BATCH_SIZE=1).
5. Loop continues until all controls created.

APIs used:

/wiki/api/v2/spaces?keys={spaceKey}
/wiki/api/v2/pages (POST)

7. Error Handling & Troubleshooting

- **410 errors:** check space ID/parent ID validity and permissions.
 - **Missing resolver definition:** ensure `generateControllersBatch` and `generateProcessorsBatch` exist.
 - **Linter scope errors:** add required scopes.
 - **Timeouts:** keep batching at 1 page/call.
 - **Half-cut UI text:** fix by adjusting container height in UI.
-

8. Customization

- Edit catalog summaries, purposes, and guidance in `src/index.js`.
 - Add new fields in the template (e.g., KPIs, approvals).
 - Add new sections or custom parent pages.
 - Localize strings for multiple languages.
 - Future: integrate Jira for evidence collection.
-

9. Deployment & Installation

1. `forge login`
 2. Set a valid App ID in manifest (via Developer Console).
 3. `npm run build:ui`
 4. `forge deploy`
 5. `forge install --site <yoursite>.atlassian.net --product confluence`
 6. Open Confluence → Apps → PIMS Accelerator → Enter Space Key → Generate
-

10. Security & Privacy Considerations

- Least privilege scopes

- No external data egress
 - Audit-ready: Confluence versioning
 - PII minimization: only templates generated, no data captured
 - Access control via Confluence permissions
-

11. File Map

```
manifest.yml      # App definition
src/index.js     # Resolver logic, catalogs, templates
ui/              # Custom UI
static/          # Compiled UI assets
```

12. Future Enhancements

- Resume/retry with progress UI
- Idempotent re-generation (update existing pages)
- Annex toggles (choose only 7.x or 8.x)
- Evidence collectors from Jira/Bitbucket
- Export compliance reports (SoA, DSR metrics)