**Document: 15 – Backlog**

**Project:** MCPX-KendoBridge Admin Portal  
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**Document Control**

| **Version** | **Date** | **Author** | **Change Summary** | **Status** |
| --- | --- | --- | --- | --- |
| 1.0.0 | 2025-09-26 | Doc-Factory | Initial epics & stories | Draft |
| 1.1.0 | 2025-09-27 | Prod+Eng Leads | Align to MSAL, Kendo Fluent 2, SSE, parity, CI path fixes | Draft |

**Approvals**

| **Role/Team** | **Name** | **Signature/Date** | **Comment** |
| --- | --- | --- | --- |
| Director of Software Eng. |  |  |  |
| Systems Architect |  |  |  |
| Security/Compliance |  |  |  |
| QA Lead |  |  |  |

**1. Prioritization & Traceability**

* **Method:** MoSCoW per epic/story; RICE used ad-hoc for tie-breakers.
* **Traceability tags:** *(UC-xx)* Use Cases, *(FR-…)* Functional Requirements, *(NFR-…)* Non-Functional, *(MON-…)* Monitoring, *(CI-…)* CI/CD.

**2. Epics (with key stories)**

**EP-01 Auth & RBAC (Must)**

* **US-01.1** As an admin, I sign in via **MSAL PKCE** and land on /dashboard. *(UC-01, FR-AUTH-01/02, NFR-SEC-01)*  
  **AC:** 302 to AAD; JWT validated; env badge visible.
* **US-01.2** As a viewer, I can read but not mutate. *(UC-01, FR-AUTH-03)*  
  **AC:** Mutations return 403; UI hides controls.

**EP-02 Admin Shell & Theming (Must)**

* **US-02.1** Convert prototype to **KendoReact (Fluent 2)** shell (Drawer/AppBar). *(08 UI/UX)*  
  **AC:** No shadcn/Radix in prod bundle.
* **US-02.2** Import **ThemeBuilder** package; tokens drive styling. *(08 UI/UX)*  
  **AC:** Single CSS/SCSS import; visual parity to Figma.

**EP-03 Health & Dashboard (Must)**

* **US-03.1** Cards for Health/Ready, Version/Uptime, p50/p95, Error %, Queue Depth. *(UC-02, FR-HEALTH-01/02, MON-SLO)*  
  **AC:** /healthz p95 ≤ 150ms; charts render.

**EP-04 Effective Config (Must)**

* **US-04.1** Read **/config/effective** grid (non-secrets). *(UC-03, FR-CONF-01/02)*  
  **AC:** CSV export; filter/sort server-side.

**EP-05 App Config Mutations (Must)**

* **US-05.1** CRUD via sp\_Config\_SetValue with **AuditEvent**. *(UC-04, FR-CONF-03/04)*  
  **AC:** Audit who/what/when (before→after); idempotency header honored.

**EP-06 Feature Flags (Must)**

* **US-06.1** Toggle flags; optional scoping by env/role. *(UC-05, FR-FLAG-01/02/03)*  
  **AC:** Audit entries; evaluation visible.

**EP-07 Lookups (Should)**

* **US-07.1** Manage lookup values with **add-only** policy. *(UC-06, FR-LOOK-01/02)*  
  **AC:** Deprecation instead of delete; referential hints.

**EP-08 Jobs & SSE (Must)**

* **US-08.1** Launch job & stream progress/heartbeats. *(UC-07, FR-JOB-01/02/04, NFR-SSE)*  
  **AC:** **TTFB ≤ 200ms**, heartbeat ≤ 10s, reconnect works.
* **US-08.2** SSE background notifications require Mcp-Session-Id. *(UC-07)*  
  **AC:** Missing header ⇒ 400 envelope.

**EP-09 Audit & Evidence (Should)**

* **US-09.1** Audit UI with filters & export. *(UC-08, FR-AUD-01/02)*
* **US-09.2** Evidence page lists artifacts (OpenAPI diff, CodeQL, SBOM, axe, **k6**, parity, approvals). *(UC-11, 12 Evidence Pack)*

**EP-10 Access Control (Graph) (Could)**

* **US-10.1** Assign/remove users via Graph (if enabled) or produce **Change Request**. *(UC-10, FR-ACCESS-01/02)*

**EP-11 Security / CORS & Rate-limit (Must)**

* **US-11.1** CORS allow-list editor with audit. *(UC-09, FR-CORS-01/03)*
* **US-11.2** Rate-limit policy (429 envelope + Retry-After). *(UC-13, FR-ERR-02, NFR-SEC-07)*

**EP-12 Readiness & Parity (Must)**

* **US-12.1** /ready drives RTM gate; **parity = 0 critical** to promote. *(UC-12, NFR-GATE-01, 10 CI/CD)*

**EP-13 Observability (Must)**

* **US-13.1** SSE metrics (first-event ms, heartbeat gap, reconnects). *(MON-SSE)*
* **US-13.2** Alerts: p95 breach, 5xx spike, **heartbeat gap > 15s**, parity blocked. *(11 Monitoring)*

**EP-14 DB Layer & Grants (Must)**

* **US-14.1** Implement mutation SPs + **AuditEvent**. *(07 Data Contracts)*
* **US-14.2** **EXECUTE-only** grants for app\_mcpx; no table DML. *(07a Grants)*
* **US-14.3** SP **signature snapshot** collected and attached to release. *(07a Grants §Evidence)*

**EP-15 CI/CD & Docs Visibility (Must)**

* **US-15.1** Fix OpenAPI path case or folder name; CI passes on Linux. *(10 CI/CD)*
* **US-15.2** Canonicalize expected-config filename; update parity job. *(10 CI/CD, 12 Evidence)*
* **US-15.3** Remove duplicate placeholder k6 file; keep single **tests/perf/k6\_sse\_ttfb.js**. *(09 Test Strategy)*
* **US-15.4** **DocX→MD** mirror and **TREE.md** generated on push. *(10 CI/CD, 12 Evidence)*

**3. Sprint Plan (2-week sprints)**

**Sprint 1 (Must)**

* EP-01 US-01.1/01.2 (MSAL PKCE, RBAC)
* EP-02 US-02.1/02.2 (Shell + ThemeBuilder)
* EP-03 US-03.1 (Dashboard basics)
* EP-15 US-15.1 (OpenAPI path fix)

**Exit:** Login E2E green; dashboard renders; CI green; axe 0 critical.

**Sprint 2 (Must)**

* EP-04 US-04.1 (Effective config read)
* EP-05 US-05.1 (Config upsert + audit)
* EP-11 US-11.1 (CORS editor)
* EP-15 US-15.2/15.3 (parity filename; k6 file)

**Exit:** Config CRUD audited; parity file canonical; k6 path unified.

**Sprint 3 (Must)**

* EP-06 US-06.1 (Flags)
* EP-07 US-07.1 (Lookups)
* EP-08 US-08.1 (Jobs + SSE stream)
* EP-13 US-13.1 (SSE metrics)

**Exit:** **TTFB ≤ 200ms** met in perf smoke; heartbeat ≤ 10s; SSE dashboard exists.

**Sprint 4 (Should)**

* EP-09 US-09.1/09.2 (Audit & Evidence)
* EP-12 US-12.1 (Parity gate + /ready integration)
* EP-13 US-13.2 (Alerts)

**Exit:** Evidence Pack complete; parity widget + alert wired; promotion Beta→RTM ready.

**Sprint 5 (Could/Policy)**

* EP-10 US-10.1 (Access via Graph or CR flow)
* EP-11 US-11.2 (Rate-limit policy live)

**Exit:** 429 envelope verified; Access flow selected and working.

**4. Story Details (samples)**

**US-08.1 Launch Job & Stream (SSE) — Must**  
**DoR:** API endpoint defined; SSE event schema; job types; perf targets.  
**AC:**

1. POST returns Job ID; idempotency prevents dups.
2. First SSE event **≤ 200ms**; heartbeat ≤ 10s.
3. Reconnect resumes; final state with duration.  
   **DoD:** Unit/integration + Playwright tests; **k6** threshold met; monitoring panels live; docs updated.

**US-15.1 OpenAPI Path Fix — Must**  
**AC:** CI references match actual folder (api/openapi/ or api/OpenApi/); Linux runner green.  
**DoD:** Commit with CI passing; note in 10 CI/CD.

**5. Non-Feature Work (Hardening / Compliance)**

* **HF-01** Add Content-Security-Policy headers (report-only burn-in). *(NFR-SEC-08)*
* **HF-02** SBOM signing/attestation (if infra available). *(12 Evidence)*
* **HF-03** A11y manual keyboard path review. *(NFR-A11Y)*
* **HF-04** Runbook drills: rollback & incident. *(Runbooks)*

**6. Dependencies & Assumptions**

* Azure AD app registration (redirect URIs, app roles/groups).
* SQL Server reachable; app\_mcpx login/user provisioned.
* ThemeBuilder export available in repo.
* Monitoring backend (Grafana/Azure Monitor/ELK) and alerting channel configured.

**7. Definition of Ready (DoR) — per story**

* Clear acceptance criteria & negative paths.
* Data contracts & API paths known; SPs identified.
* Test approach noted (unit/integ/E2E/perf/a11y).
* Security notes (RBAC, CORS, rate-limit) captured.

**8. Definition of Done (DoD) — per story**

* Code + tests merged; **CI green**; **axe 0 critical**.
* Docs updated (FR/NFR/UI/Monitoring as relevant).
* Evidence artifacts attached (OpenAPI diff, test outputs, SBOM, etc.).
* Metrics and alerts visible on dashboards.

**9. Backlog Register (condensed)**

| **ID** | **Title** | **Epic** | **Priority** | **Links (UC/FR/NFR)** |
| --- | --- | --- | --- | --- |
| US-01.1 | MSAL PKCE login | EP-01 | **M** | UC-01, FR-AUTH-01/02 |
| US-02.1 | Kendo shell (Drawer/AppBar) | EP-02 | **M** | 08 UI/UX |
| US-03.1 | Dashboard cards & charts | EP-03 | **M** | UC-02, FR-HEALTH-02 |
| US-04.1 | Effective config grid | EP-04 | **M** | UC-03, FR-CONF-01/02 |
| US-05.1 | Config upsert + audit | EP-05 | **M** | UC-04, FR-CONF-04 |
| US-06.1 | Flags toggle | EP-06 | **M** | UC-05, FR-FLAG-01..03 |
| US-08.1 | Jobs SSE stream | EP-08 | **M** | UC-07, FR-JOB-01..04 |
| US-09.2 | Evidence page | EP-09 | **S** | UC-11, 12 Evidence |
| US-11.1 | CORS allow-list editor | EP-11 | **M** | UC-09, FR-CORS-01/03 |
| US-11.2 | Rate-limit policy | EP-11 | **S** | UC-13, FR-ERR-02 |
| US-12.1 | RTM parity gate | EP-12 | **M** | UC-12, NFR-GATE-01 |
| US-13.1 | SSE metrics & dashboards | EP-13 | **M** | 11 Monitoring |
| US-14.1 | Mutation SPs + AuditEvent | EP-14 | **M** | 07 Data Contracts |
| US-14.2 | EXECUTE-only grants | EP-14 | **M** | 07a Grants |
| US-15.1 | OpenAPI path case fix | EP-15 | **M** | 10 CI/CD |
| US-15.2 | Parity filename canonicalization | EP-15 | **M** | 10 CI/CD, 12 Evidence |
| US-15.3 | Unify k6 perf script | EP-15 | **M** | 09 Test Strategy |
| US-15.4 | DocX→MD + TREE.md pipelines | EP-15 | **M** | 10 CI/CD |

**End of Document — TJ-MCPX-DOC-15 v1.1.0**