# Extended Data Model for District Court Legal Application

This document expands on the initial list of data points provided, filling in additional entities and attributes required for a production-ready legal application. Each section below lists the recommended data items, with (★) indicating one-to-many relationships.

## Case / Matter

* - Case IDs: internal, official CM/ECF; caption/title; practice area; filing date; status (enum), stage.
* - Court: district/division, courthouse location, time zone.
* - Parties (★): party type (person/org), role (plaintiff/defendant/third-party), service addresses (★).
* - Our team (★): matter owner, team members/roles; opposing counsel (★) with firm, bar no., contacts.
* - Related/companion cases (★); legal hold flag; confidentiality level; tags/keywords (★).
* - Notes/strategy log (★); attachments (★) with source, hash, OCR status.

## Judge Profile

* - Judge ID; name; courtroom; chambers URL; contact channel.
* - Standing orders/procedures (versioned) (★) with effective/expiry.
* - Preferences: filing format (single vs multi-PDF), exhibit labeling, motion practice, hearing scheduling windows, filing cutoff times.
* - Substitute/associate judges (★); holiday calendar override.

## Rules / Authorities

* - Type (FRCP, Local Rule, Judge Procedure, ECF manual, Standing Order).
* - Citation; jurisdiction/scope; version; effective date; superseded-by link.
* - Full text + structured clauses (★); attachments/URLs; cross-references (★).

## Deadlines & Tasks

* - Trigger type (rule, court order, user); trigger source link (docket/rule id).
* - Computation basis (calendar vs business days), court holiday calendar, time zone.
* - Due date/time; reminders (★) [when, channel]; predecessors/blocked-by (★).
* - Assignee/owner; priority; status; snooze/extension details; outcome (met/missed).
* - Computation rationale (stored text) for audit; created/updated by; timestamps.

## Docket & Filings

* - Docket entries (★): entry no., date/time, type, description, PDFs/links.
* - Filings (★): document type, ECF category, e-file packaging (single/multi-PDF), exhibit index (★), service list (★), served date/time/method.

## Hearings / Events

* - Hearing type; date/time; location or virtual link; appearance requirements; time limits.
* - Outcome (granted/denied/continued); post-hearing tasks (★).

## Contacts

* - Opposing counsel (★): name, firm, phones/emails, bar nos., role per case.
* - Client contacts (★), experts (★), vendors/court reporters (★).
* - Preferred contact method; availability windows (optional).

## Users / AuthZ

* - Users: role (admin/lawyer/paralegal/guest), team/firm, MFA/SSO ids.
* - Case-level permissions (view/edit/deadlines/filings granularity); audit trail.

## Alerts & Notifications

* - Subscriptions per user/case (★); channel (in-app/email/SMS/push).
* - Templates (★); escalation rules; delivery logs (★) with status.

## Calendar & Integrations

* - External calendar event ids (Google/M365) (★), last sync, sync state.
* - Email integration metadata (optional): message ids for auto-file.
* - PACER/CM-ECF credentials (vaulted); rate/billing meters; API rate limits.

## Ingestion / ML (for RAG & search)

* - Corpus documents (★): source, URL, version, file hash, mime, pages, OCR’d.
* - Chunks (★): offsets, headings, embedding id, model version.
* - Retrieval runs (★): query, top-k, scores, selected spans (for citations/audit).

## Audit / Compliance / Ops

* - Global audit log (★): who/what/when/before/after; soft-delete (`deleted\_at`).
* - Retention policies; export packages; data residency (tenant).
* - Court holiday calendars (★); feature flags; health/error logs; SLAs.

## Normalization Tips

- Version Rules/Procedures and reference the specific version from each Deadline for defensibility.  
- Store time zone on all time-based records; compute using the court’s locale.  
- Model Party, Attorney, Contact separately; relate via role tables.  
- Keep filing recipes (judge-specific packaging rules) as structured objects, not free text.