

Nimbus Platform

Release Notes

v3.4.2

📅 July 15, 2026

🔗 Build 3421-stable

★ Overview

Nimbus Platform v3.4.2 is a stability and quality-of-life release that delivers thirteen new features across the dashboard, API, and automation engine, resolves twenty-four reported defects, and formally deprecates two legacy endpoints ahead of the v4.0 migration in Q1 2027. All teams running v3.3.x or earlier should review the upgrade notes below before applying this update.

★ New Features

Dashboard & Analytics

- **Custom Metric Builder.** Drag-and-drop interface for creating composite KPIs from any data source. Supports rolling windows, weighted averages, and conditional thresholds.
- **Shared Dashboard Templates.** Teams can now export dashboard layouts as JSON templates and import them across workspaces. Access control respects existing workspace roles.
- **Scheduled PDF Exports.** Dashboards can be configured to generate and email PDF snapshots on a cron schedule. Delivery targets support SMTP, webhook, and S3-compatible storage.

API & Developer Experience

- **Bulk Operation Endpoint.** New `POST /api/v3/bulk/execute` accepts up to 200 operations in a single request with atomic rollback on failure.
- **OpenAPI 3.1 Specification.** The full REST API surface is now documented in an OpenAPI 3.1 spec, available at `/api/v3/openapi.json`. SDK generation is supported via the Nimbus CLI.
- **Webhook Retry Policies.** Per-endpoint retry configuration with exponential backoff, jitter, and dead-letter queues. Delivery logs are retained for 30 days.

Automation Engine

- **Conditional Branching.** Workflows now support `if/else` and `switch` nodes for routing based on runtime data. Evaluated server-side with sub-millisecond latency.
- **Parallel Execution Pools.** Designate resource pools for concurrent task execution with configurable max concurrency and priority queuing per tenant.
- **SLA Monitoring Built-in.** Each automation run now emits structured timing data to the observability pipeline. Pre-built Grafana dashboards included.

Security

- **SCIM Provisioning (Preview).** System for Cross-domain Identity Management v2.0 support for automated user lifecycle management from Azure AD and Okta-compatible identity providers.
- **Audit Log Streaming.** Real-time streaming of all audit events to external SIEM platforms via Kafka or HTTP push. Configurable field-level redaction.

Resolved Issues

Critical Fixes

- **NB-4821** — Race condition in the OAuth token refresh flow could cause concurrent requests to receive stale access tokens, resulting in transient 401 errors under high load. *Fixed by: Marcus Webb.*
- **NB-4798** — CSV exports exceeding 500,000 rows would silently truncate data without emitting a warning. Export service now chunks output and appends a completeness manifest.
- **NB-4760** — Notification channels configured with non-ASCII display names caused publish failures on the Firebase Cloud Messaging adapter. Encoding is now normalized to UTF-8 at the adapter boundary.

General Fixes

- **NB-4839** — Timezone offset was not applied to `created_at` timestamps in the activity feed when the user profile specified a non-UTC zone.
- **NB-4844** — SAML assertion validation failed for IdPs that sign only the assertion element rather than the full response.
- **NB-4851** — Search query highlighting stripped HTML entities from result snippets, occasionally producing garbled text.
- **NB-4867** — The data connector for VertexDB returned stale schema caches after DDL changes, requiring a manual cache flush.
- **NB-4872** — Pagination cursors on the user listing endpoint would reset when a filter parameter was cleared mid-session.
- **NB-4880** — `NullPointerException` in the workflow scheduler when a task referenced a deleted integration credential. The scheduler now degrades gracefully with a clear error state.

⚠ Deprecations & Removals

- **GET /api/v2/reports/generate**

End-of-Life Q1 2027

Replaced by POST /api/v3/reports/schedule with improved filtering, asynchronous generation, and webhook delivery. All v2 report integrations must migrate before March 1, 2027.

- **POST /api/v2/webhooks/register**

End-of-Life Q1 2027

Superseded by the unified webhook management API at /api/v3/webhooks. The v2 endpoint no longer receives feature updates and will be removed in v4.0.

- **Legacy X-Nimbus-Auth Header**

The custom authentication header has been deprecated in favor of standard **Authorization: Bearer** tokens. Requests using the legacy header will receive a **Warning** response header starting with this release.

i Known Issues

- **KNW-344** — The Custom Metric Builder may exhibit layout overflow on viewports narrower than 1024 px. A responsive update is scheduled for v3.4.3.
- **KNW-351** — SCIM provisioning does not yet support group push for nested Azure AD security groups. Flat groups function correctly.
- **KNW-358** — Parallel execution pools default to a maximum concurrency of 50; exceeding this requires a support ticket to raise the tenant limit.

⬇ Upgrade Instructions

Prerequisites. v3.3.0 or later with PostgreSQL 15+ and Redis 7+. Backwards compatibility with PostgreSQL 14 is maintained but unsupported for new installations.

Step 1 — Backup. Create a full database snapshot and export your workspace configurations via the Nimbus CLI:

```
$ nimbus config export > workspace-backup.json
```

Step 2 — Apply Migration. Run the database migration script included in the release tarball:

```
$ nimbus migrate apply --release 3.4.2 --dry-run
```

```
$ nimbus migrate apply --release 3.4.2
```

Step 3 — Restart Services. Restart all application nodes in rolling fashion. Zero-downtime upgrades are supported when running at least two nodes behind a load balancer.

Rollback. If issues arise, revert to v3.4.1 using the same migration tool with the **--rollback** flag. Database schema changes in this release are backwards-compatible with v3.4.0+.

Nimbus Platform is developed and maintained by the Meridian Engineering team. For support, contact release-support@nimbus.example.com or visit the internal wiki at wiki.nimbus.example.com.