



DB Gene 4.11.0 Release Notes

July 10th, 2026

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DB Gene 4.11.0 Release Notes

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Note:

DB Gene 4.11.0 introduces several infrastructure updates and deprecations.

They are described in more detail in the DB Gene 4.11.0 Migration Guide, available on the [DecisionBrain website](#).

The following information only focuses on the main changes in this release.

End-User Features

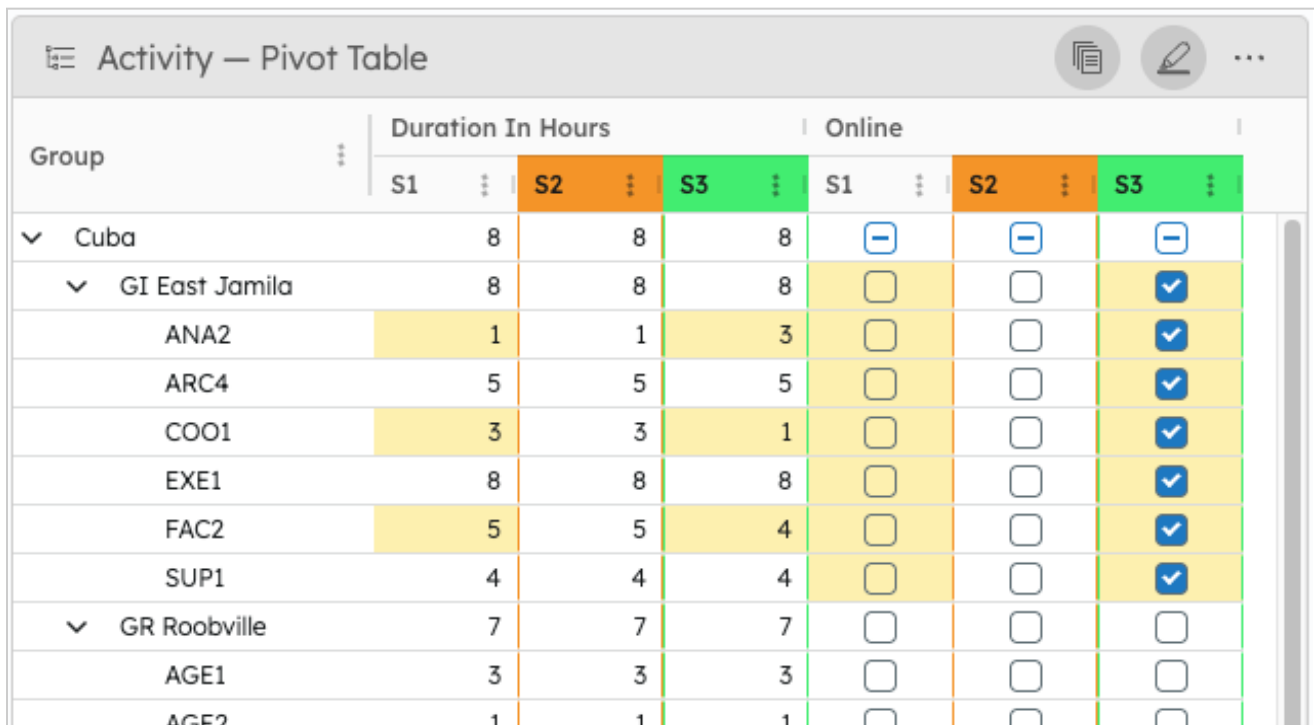
DB Gene 4.11.0 enhances the Gantt chart, adds scenario comparison to the Pivot Table widget, and improves the Data Grid and Data Explorer.

New Pivot Table Scenario Comparison

DOC-1397

The Pivot Table widget now supports scenario comparison.

When a comparison context is active, each leaf column expands into side-by-side sub-columns, one per scenario, with a distinct, color-coded header and vertical border for each scenario. Comparison mode is read-only, and the edition toolbar is hidden when active.



Group	Duration In Hours			Online		
	S1	S2	S3	S1	S2	S3
▼ Cuba	8	8	8	☐	☐	☐
▼ GI East Jamila	8	8	8	☐	☐	☒
ANA2	1	1	3	☐	☐	☒
ARC4	5	5	5	☐	☐	☒
COO1	3	3	1	☐	☐	☒
EXE1	8	8	8	☐	☐	☒
FAC2	5	5	4	☐	☐	☒
SUP1	4	4	4	☐	☐	☒
▼ GR Roobville	7	7	7	☐	☐	☐
AGE1	3	3	3	☐	☐	☐
AGE2	1	1	1	☐	☐	☐

Cells where values differ across scenarios are highlighted in a warning color. Cells missing from one scenario are highlighted in an error color. A toolbar button toggles this highlighting on or off, and the toggle state is preserved across sessions.

Improved Gantt Chart

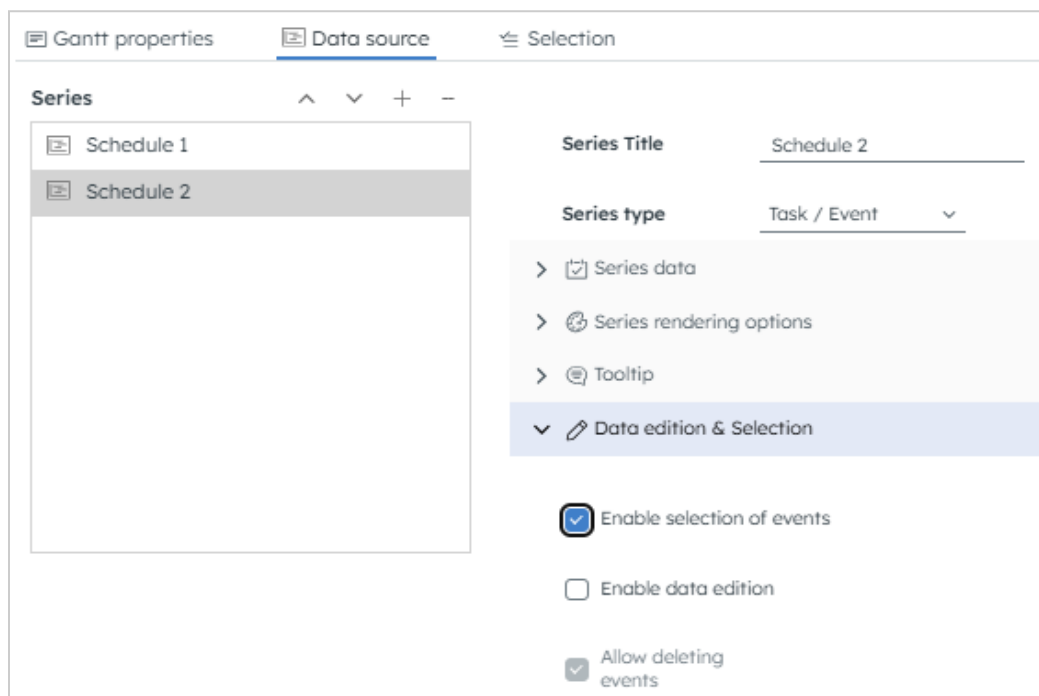
The Gantt Chart Widget has been improved in different ways.

New Multi-Series Data Edition

DOC-1394

The Gantt chart now supports data edition across multiple series at once.

Where edition was previously limited to a single series, a Gantt configuration can now declare several editable series, each backed by a different entity type, alongside read-only series.



In edition mode, events from every editable series are interactive: users can drag an event to a new time slot, move it to another row to reassign its resource, resize it, or delete it. Read-only series stay locked, and a single unsaved-changes indicator tracks edits across all series together.

Edits to different series are handled as one editing session:

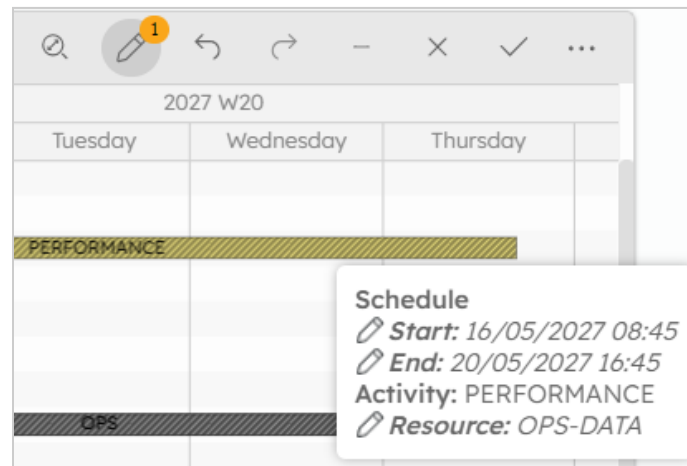
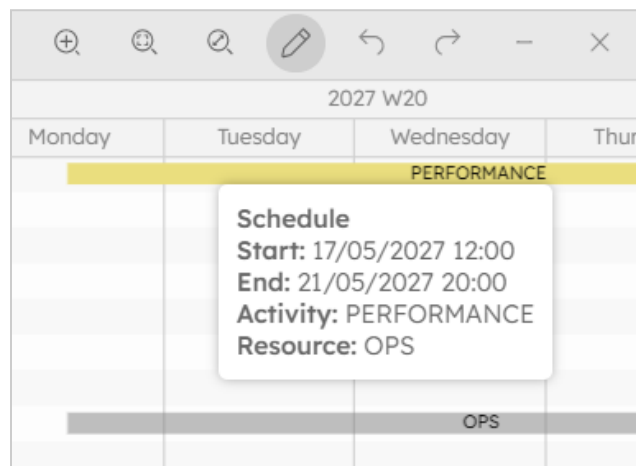
- **Undo and redo** apply across entity types, reverting or re-applying the most recent change, whichever series it belongs to.
- **Saving** persists every pending change in a single transaction, one request covering all modified entity types, and none for series left unchanged.
- **Discarding** reverts all pending changes across every series without contacting the server.
- **Multi-selecting and deleting events that span several series** removes them in one save action, while honoring each series' own deletion settings.

Also, when a pending entity has also been changed in another session, the conflict editor surfaces the conflicts from all affected entity types together.

Improved Edition Feedback

DBPF-10333

When data edition is enabled, the event that is being moved or resized is now highlighted as selected, giving feedback on what is being edited. This highlight is only visual and does not affect dashboard filtering.

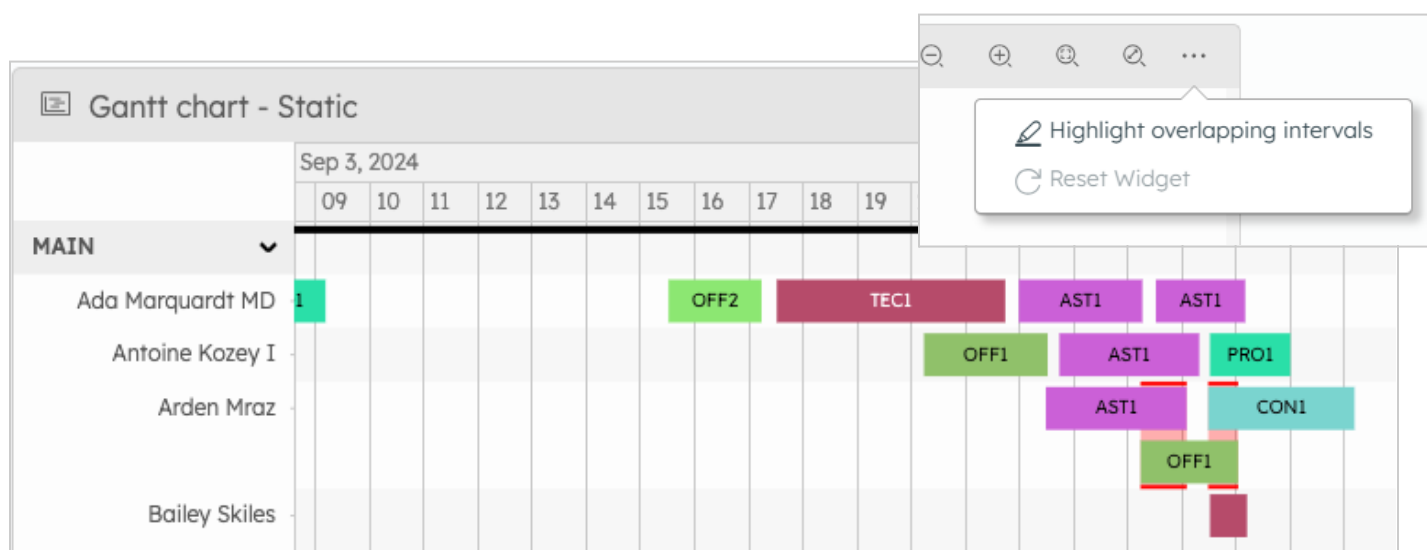


New Overlapping Event Display

DBPF-10336

Overlapping events on the same resource row can now be spread across sub-lanes instead of stacking on top of each other. The row height expands to fit the extra lanes, and rows without overlaps are unaffected.

- The feature is enabled by default on existing configurations and can be turned off in the configurator.
- A toolbar button lets users highlight overlap intervals; the toggle state is preserved across sessions.



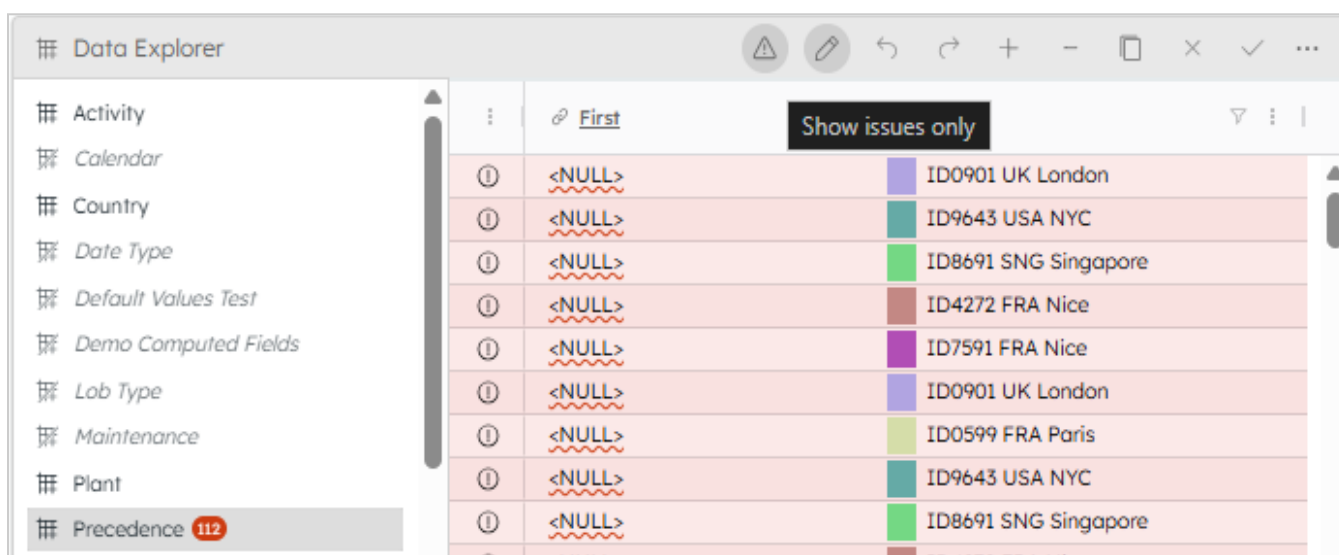
Improved Data Grid and Explorer

DBPF-9967 DBPF-9903

The Show Issues Only filter toggle in the Data Grid/Explorer toolbar is now fully interactive in edition mode.

Users can enable it to focus on rows with validation errors, fix the values directly, toggle it off to return to the full dataset, and save, all without leaving edition mode.

Local edits are preserved across filter toggles and scroll positions. This means that pending changes, including row deletions, remain visible and are correctly saved even after the grid reloads the visible range.



The `params.value` passed to the `onProcessCellFromClipboard(params)` method of `GeneTableController` is now stripped of bidirectional Unicode characters to prevent silent parsing failures on date and numeric fields.

The `params.parseValue(value)` method can now be used to return the default implementation of `onProcessCellFromClipboard`. And four new utility functions are exported from `@gene/data`:

- `dateTimeToLocalDate(dt: DateTime): number` converts a Luxon DateTime to Gene epoch days, preserving wall-clock date.
- `parseLocalDateFromString(value, format): number | undefined` parses a UTC date string to epoch days.
- `parseLocalDateTimeFromString(value, format): number | undefined` — parses a UTC date-time string to epoch milliseconds.
- `parseInstantFromString(value, format, zone?): number | undefined` — parses a date-time string in a given timezone (default 'utc') to epoch milliseconds.

Technical Features

DB Gene 4.11.0 adds a comparison mode to the Data API, updates the OpenAPI clients and the JupyterLab defaults, improves the build, and strengthens security.

New Data API Comparison Mode

DBPF-10195

A pivot query from the Data API, on either pivot columns or pivot data, now allows you to compare a primary set of scenarios against a set of reference scenarios and return both side by side in a single call.

Two safeguards frame the feature:

- Access is checked across every scenario in the request, so a comparison runs only when the caller is allowed to read all of the primary and reference scenarios, and
- Because comparing many scenarios at once is costly, the number of scenarios in a single comparison is limited (ten by default, and configurable). Beyond that limit, the API returns a clear error rather than a heavy, slow response. Pivot queries that do not use comparison mode are unaffected.

Improved OpenAPI Clients

DBPF-9806

The OpenAPI clients now use Jackson 3, completing the platform-wide Jackson 3 migration. The generated API client templates have been updated accordingly. Existing Gene jobs running on DBOS workers continue to operate without changes.

Improved JupyterLab Defaults

DBPF-10013

The default JupyterLab server name and URL are now **default-jupyterlab-server**, replacing the previous Execution Service value. This applies to Jupyter notebook execution in jobs, the JupyterLab UI accessible from the top-right menu, and the Notebook Visualization widget.

Improved Scaffolding

DBPF-8156

When the collector class name is declared in the JDL, the scaffolding generator now reads it automatically. There is no need to provide it again as a command-line parameter or input configuration. If the JDL value and a supplied parameter differ, the generator reports an explicit error rather than silently using one or the other.

Improved Security and Monitoring

DOC security has been improved as follows:

- **DBPF-10246** The shared **java-spring-application.Dockerfile** now uses the BellSoft hardened (distroless) Liberica runtime instead of the standard one. The image has no shell or package manager and runs as non-root user **10001**, removing all OS-level CVEs. Fonts required by Excel exports (Apache POI) are still included, so Excel rendering is unaffected.
- **DOC-1393** GraphQL error responses no longer expose internal parser details. When a syntactically invalid query is received, the error message is now a generic message with no mention of ANTLR or other implementation internals. Business logic errors remain unaffected and continue to return their normal messages.
- **DBPF-10174** **bcprov-jdk18on** and **bcpkix-jdk18on** have been upgraded to 1.81.1 in DOC and DBOS, addressing four CVEs (CVE-2026-0636, CVE-2025-14813, CVE-2026-5598, CVE-2026-5588) identified in the Trivy security scan.