

# Appendix A: Custom Server-Side Code and SQL Date Formatting

Before upgrading, customers should review their custom code for SQL queries that rely on locale-sensitive date or number formatting.

## Important

This applies to SaaS deployments that contain custom server-side code where a localized date is passed directly to SQL Server as part of a SQL condition, instead of being passed as a SqlParameter object. No action is required for standard Aras Innovator product usage.

## Background

Aras Innovator 40 runs on .NET 10, hosted on Ubuntu 24.04. The ICU 74 globalization library shipped with Ubuntu 24.04 introduced a change in certain locales where a Narrow No-Break Space (U+202F) is used instead of a standard space before the AM/PM designator in formatted date strings. This can cause SQL Server to throw an exception when it attempts to parse a localized date string passed from the server.

## Who is affected

Customers with custom server-side code that passes a localized date string directly to SQL Server as part of a SQL condition. For example:

```
SELECT login_name
FROM innovator.[USER]
WHERE created_on > '5/14/2026 2:48 PM'
```

## What to do

SQL parameters must be in a locale-neutral date format, such as 2026-03-13T14:30:00. Use typed SqlParameter objects or culture-neutral format specifiers (for example, "s") at all storage and SQL boundaries. Do not pass locale-sensitive date strings directly to SQL Server.

## What happens if no action is taken



SQL Server may throw an exception because it cannot parse the localized date format passed from Ubuntu 24.

Any custom server-side code that constructs SQL queries using formatted date strings will return errors.

For further technical detail, refer to Cross-Platform Date/Time Formatting Normalization section of the Aras IOM SDK 15.1.2 Release Notes.

