

coDiagnostiX 10.10.1

Improved Dongle Detection

- Improved dongle detection with automatic recovery from temporary connection issues.
- Updated the SafeNet dongle driver to the latest supported version for enhanced stability and compatibility.

Further Improvements to Tooth Extraction

- Improved consistency between scan matching and virtual tooth extraction, particularly after manual adjustments.
- More robust label matching between CBCT and IOS data for complex clinical cases.
- Overall improvements in the stability and reliability of the Tooth Extraction workflow and 3D navigation.

User Interface and Usability Improvements

- Fixed issues with geo-region filtering for implant systems.
- Corrected the display of region icons and improved the selection of region-specific implants.
- Restored scanbody preview images in the export dialog.
- Corrected translations and improved the display of tool descriptions in the Falcon dialog.

Improved Mesh Editor Stability

- Enhanced Mesh Editor startup stability and resolved an issue that could prevent the Mesh Editor from opening.

Third-Party License Information

- Current license information for integrated third-party software components is now available directly via a web link in the About dialog.

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Migration to 64-Bit Architecture

With this release, coDiagnostiX has been fully migrated from a 32-bit to a 64-bit architecture. The previous 32-bit version imposed limitations in terms of stability, memory usage, and scalability - especially for complex workflows and large datasets. The new 64-bit platform removes these constraints and establishes a future-proof technical foundation.

Key benefits of the migration:

- Significantly improved system stability
- Enhanced memory and resource utilization
- Better handling of large and complex cases
- Foundation for future high-performance features

Important: The feature set remains unchanged. Existing functionality continues to work as before - now with improved stability and reliability.

AI Service Stability Improvements

The integration of the local AI service has been significantly improved:

- More reliable connection between cDX and the AI service
- Fixed startup crashes in older datasets with missing STL data
- Removal of unstable mDNS dependency.

Result: more robust and reliable AI functionality.

Tooth Extraction Improvements

The tooth extraction and segmentation algorithms have been optimized:

- Improved detection in complex anatomical situations
- Better handling of:
 - bridged teeth
 - widely spaced teeth
- Fixes for crashes and failed extractions.

Result: increased accuracy and robustness in clinical workflows.

Removal of Legacy Features

To reduce complexity and maintenance effort, outdated features have been removed:

- Full removal of gonyX (analog workflow support)
- Deactivation of Straumann CARES Visual 6.2 export.

Focus is now on modern, supported digital workflows.

Adoption of Research Features

Selected research features have been integrated into the release, including:

- Conversion of profiles, nerves, and abutment axes into 3D models
- Creation of bone cut profile copies.

Result: expanded capabilities without impacting stability.

General Stability & Compatibility Improvements

Multiple issues have been resolved, including:

- Improved compatibility across components
- More stable import/export processes
- UI and workflow fixes.

Result: a more robust and reliable overall application.

Summary

This release does not introduce major functional changes, but delivers significant improvements in:

- Stability
- Performance
- Technical readiness.

Together with smaller enhancements and bug fixes, this results in a smoother and more reliable user experience in coDiagnostics.