
DOSIsoft Receives FDA 510(k) Clearance for ThinkQA 3.0, a Unified Patient-Specific QA Platform for Offline and Online Adaptive Radiotherapy

Coral Gables, FL, USA | Monday, 22nd June, 2026

DOSIsoft, leading provider of patient-specific imaging and dosimetry software solutions for radiation oncology and nuclear medicine, is pleased to share that it has obtained **510(k) clearance** from the US Food and Drug Administration (FDA) on June 12th, 2026, for the commercialization of **ThinkQA 3.0**.

As radiation therapy advances toward modern, time-constrained online **Adaptive Radiation Therapy (ART)**, **Patient Specific Quality Assurance (PSQA)** processes must become faster, more reliable, and more integrated into clinical workflows. ThinkQA 3.0 addresses these challenges by combining speed, accuracy & simplicity into a **unified web-based platform** designed to support online ART workflow, for both **CT-Linacs and MR-Linacs**.

ThinkQA 3.0: Clinically Proven Design Innovation to Streamline Patient QA Experience

- **Automated PSQA:** GPU-powered 3D Collapsed Cone Convolution (CCC) algorithm delivering QA results **in just 1-2 minutes**
- **Integrated** workflow: seamless integration into Elekta ONE adaptive radiotherapy workflows without adding time to the routine QA process
- **Centralized** QA Management: all pre- & post- treatment PSQA tasks managed within a single and connected platform
- **Simplified** QA user experience: Enhanced usability and modern web-based access to improve efficiency and ease of use

ThinkQA 3.0: Delivering End-to-end QA Capabilities for Adaptive Radiation Therapy

Tailored to meet the evolving requirements of adaptive radiotherapy, ThinkQA 3.0 represents a significant technological advancement, fully supporting both online and offline adaptive workflows. It is powered by a **unique, fast, and optimized Collapsed Cone Convolution (CCC)** calculation engine validated against Monte Carlo simulations. By leveraging the same calculation engine across all patient-specific QA verifications, ThinkQA 3.0 delivers consistent 3D dose calculations and 2D dose image comparisons while minimizing uncertainties and biases associated with multiple calculation engines.

- **Secondary Dose Check:** Independent full 3D dose calculation, automatically handling adapt-to-position and adapt-to-shape plans
- **Logfile Analysis:** Automated pre-treatment and in vivo treatment verifications, based on machine delivery logs, and computed into 3D dose distributions
- **Pretreatment Check:** EPID-based phantom-less QA providing instant gamma-based comparison results
- **In vivo dosimetry Check:** EPID-based transit dosimetry QA for dose deviation detection during patient treatment

ThinkQA 3.0: Designed for Broad Compatibility and Seamless Implementation

Designed as a multi-vendor solution, ThinkQA 3.0 supports **a wide range of modern linear accelerators, in the mixed environment including advanced CT-Linac and MR-Linac**. Configured using ready-to-use beam templates and machine models, it **simplifies the overall commissioning**, to reduce implementation workload, and support compliance with clinical quality and regulatory requirements.

For Elekta Unity **MR-Linac** users, the advanced CCC calculation engine accurately models both **cryostat transmission and magnetic field effects** on dose distribution, ensuring reliable and clinically relevant verification results in this highly specialized treatment environment.

*"The FDA 510(k) clearance of ThinkQA 3.0 marks an important milestone for DOSIsoft. We are delighted that U.S. radiation oncology departments can now benefit from **a modern, web-based and vendor-agnostic QA platform** that unifies secondary dose calculation, EPID-based verification, logfile analysis, and in vivo dosimetry within a single environment. ThinkQA 3.0 helps **improve efficiency, simplify adaptive radiotherapy workflows, and support consistent, high-quality patient care.**"* said Jean-Elie Kafrouni, CEO of DOSIsoft, Inc.

As part of the Elekta ONE solution, ThinkQA 3 live demonstrations will be available at the Elekta booth #1131 during AAPM 2026.

About DOSIsoft

Founded in 2002, DOSIsoft is a market leader in dosimetry software for radiation oncology and nuclear medicine, dedicated to improving cancer treatment quality and patient safety. With more than 1,000 installations across 800+ hospital centers in 80 countries, DOSIsoft provides advanced solutions for radiation therapy quality assurance, theranostics, and personalized dosimetry. A spin-off from Gustave Roussy and Institut Curie, DOSIsoft continues to innovate through close collaboration with leading cancer centers worldwide. www.dosisoft.com

About ThinkQA

ThinkQA 3 is FDA 510(k) cleared. The product may not be available in all markets. Please contact your local sales representative for more information. ThinkQA 3.0 is distributed exclusively by Elekta www.elekta.com

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