

IQM

Integral Quality Monitor



CALC



MON



REV

Applications

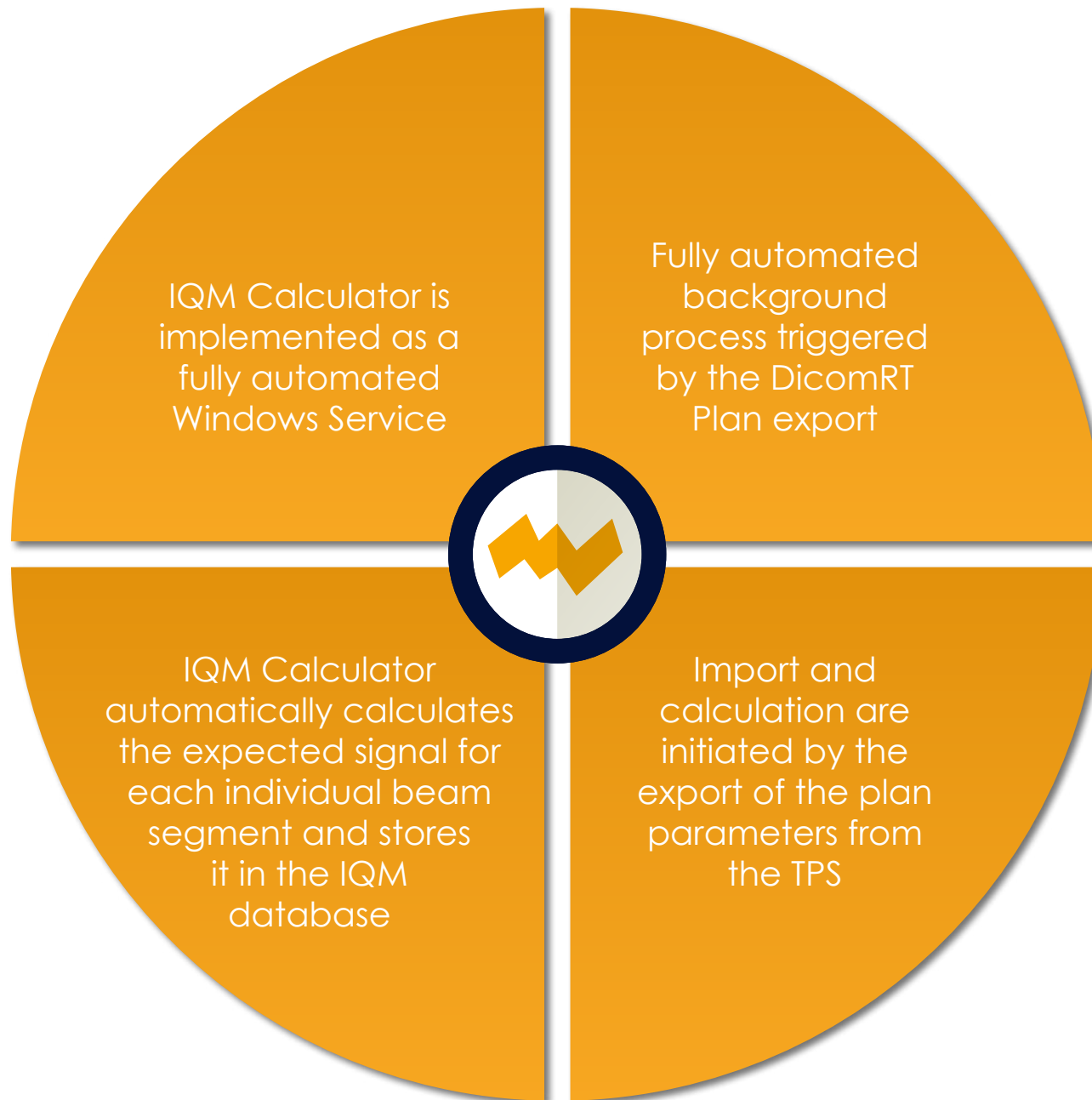
Additional clinical workload due to IQM:



Export
DicomRT
Plan Data
from TPS

↖ one simple mouse click

IQM CALC is a Windows Service



TPS exports DicomRT Plan data files to a shared folder



IQM Calculator automatically imports the DicomRT Plan files and stores them in the IQM database

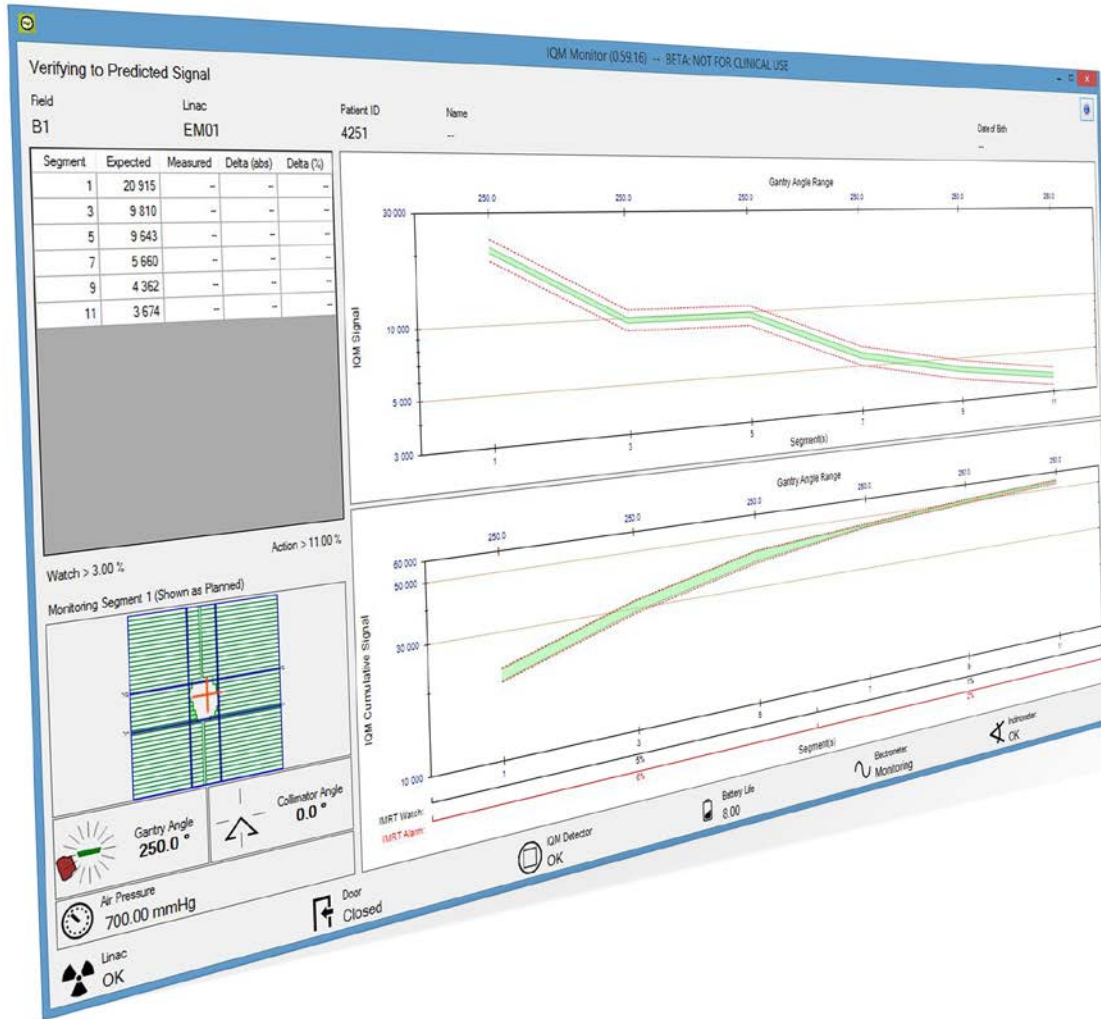
IQM Calculator automatically calculates the expected signal for each individual beam (segment)

IQM Calculator automatically stores the calculation results in the IQM Database

IQM works fully automatically

IQM Monitor synchronizes patient loading with Linac control console

Plan is loaded at control console of the Linear Accelerator



The inner corridor displays the area of (normal) expected fluctuation during a treatment day of the Linear Accelerator

The outer corridor separates acceptable deviations from potentially harmful deviations



IQM Monitor loads the plan related data fully automatically (synchronized with the Linac control console)

IQM Monitor automatically applies user-defined tolerances to the expected signal

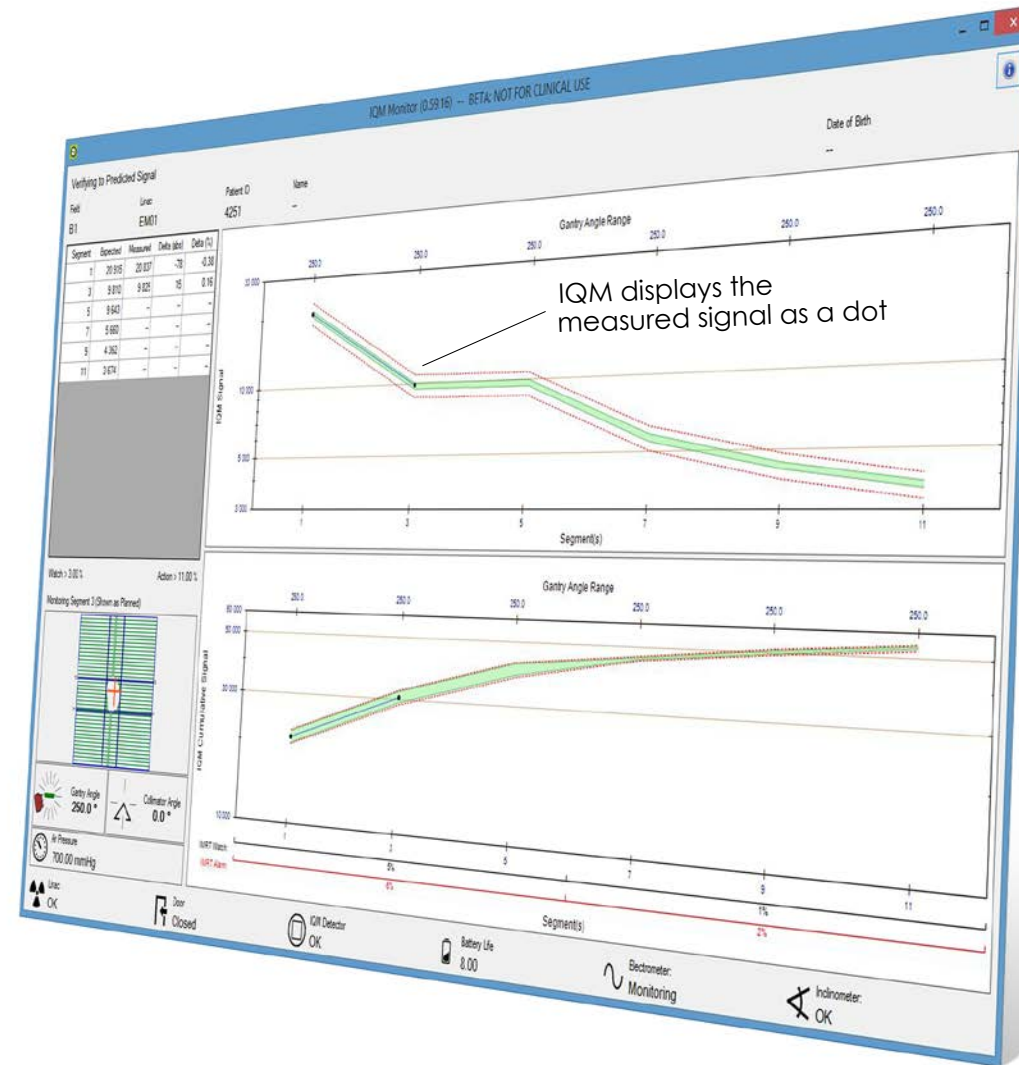
Verification has never been easier.

The entire verification process requires no user interaction



IQM automatically measures the delivered radiation segment-by-segment

IQM displays these tolerances as corridors



IQM Detector measures the treatment dose fully automatically

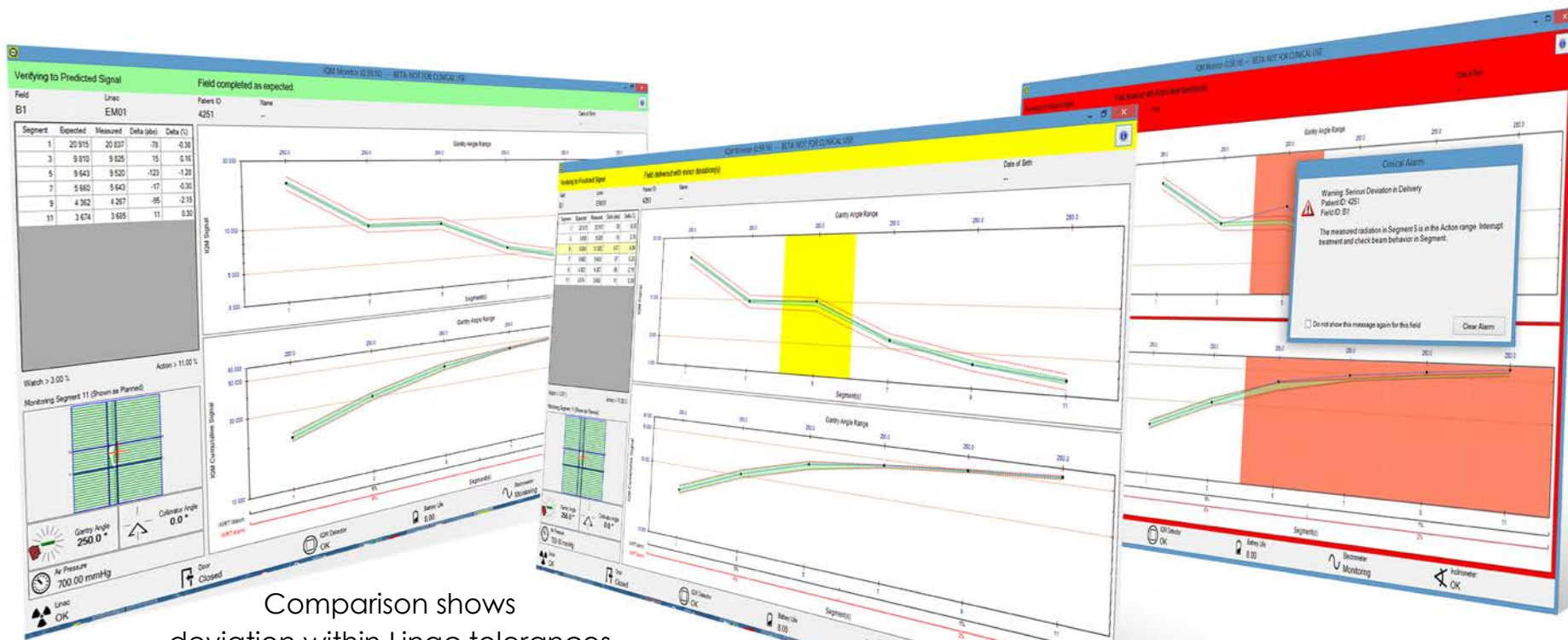
IQM Monitor compares the measured signal against the expected signal fully automatically in real-time

Treatment plan parameters are verified fully automatically and in real-time during the patient treatment

Patient treatment has never been safer.

IQM Monitor automatically compares the measured signal against the expected signal segment-by-segment

in real-time.



Comparison shows deviation within Linac tolerances

Comparison shows tolerable deviation

A clinical alarm is issued if the measured signal significantly deviates from the expected signal

Comparison shows a significant deviation

Comparison shows a tolerable deviation

Comparison shows no deviation

For the first time, verification results are available while the treatment is still ongoing

IQM Monitor fully automatically creates a report and informs the user via e-mail about the monitoring results

IQM Review allows patient specific post treatment review of monitoring results

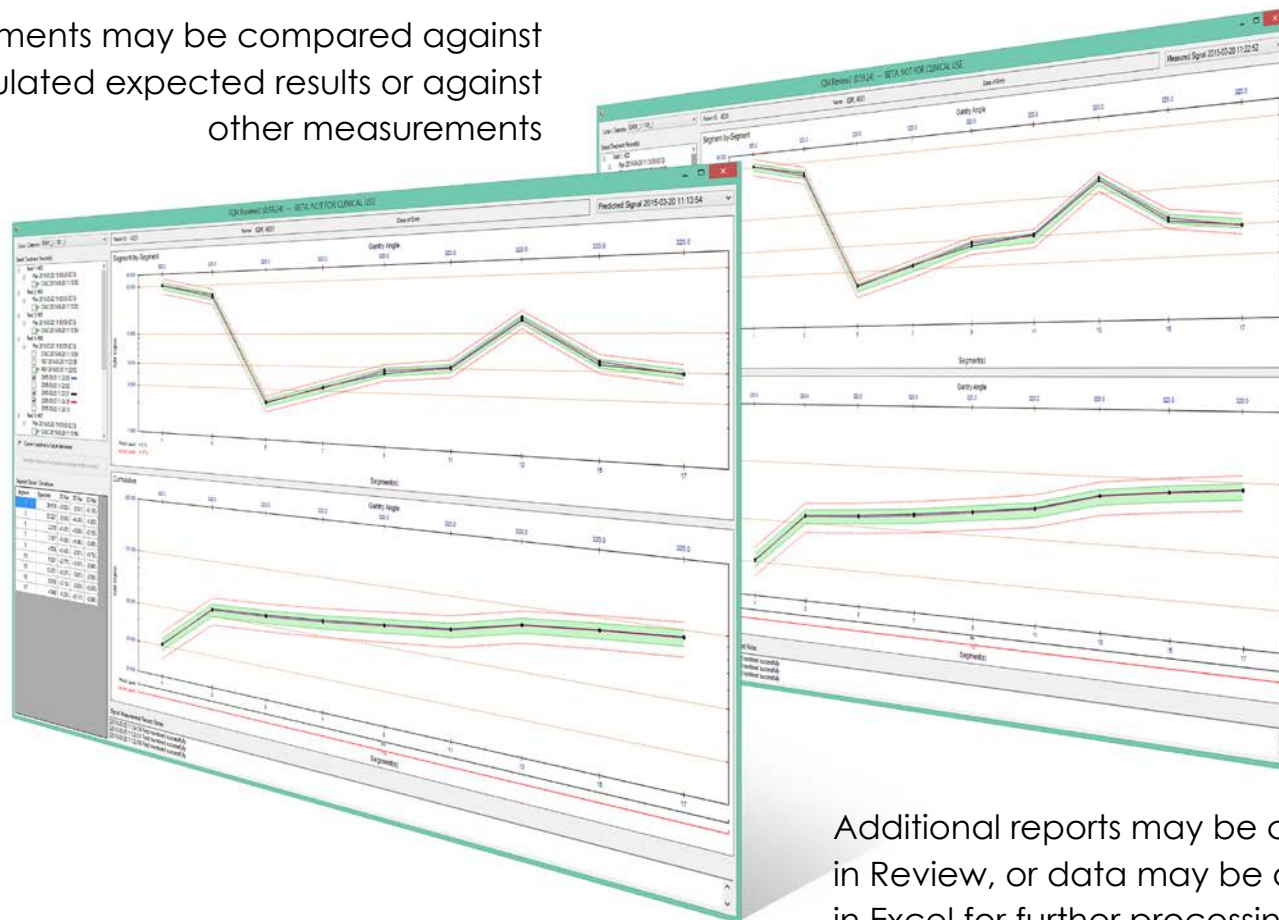
IQM Review is license-free and can be installed on any control unit (with access to the IQM database) in the RT department



IQM Review displays multiple monitoring results for additional analysis and trending purposes

Measurements may be compared against calculated expected results or against other measurements

Results are displayed graphically and as data tables with absolute and relative deviations



IQM Review. An independent post-treatment review tool for trending and reporting

Additional reports may be created in Review, or data may be opened in Excel for further processing

See IQM in action

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