

RAYSTATION 2024B

IHE-RO Integration Statement

Safety notices

This user documentation contains WARNINGS concerning the safe use of the product. These must be followed.



WARNING!

The general warning sign informs you of a risk for bodily harm. In most cases the risk is related to mistreatment of the patient.

Note: *The note gives additional information concerning a specific topic, for example, things to consider when performing a certain step in an instruction.*

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INTEGRATION STATEMENT

1.1 INTRODUCTION

This IHE Integration Statement is prepared and published to describe the conformance of RayStation with the IHE-RO Technical Framework. It identifies specific IHE-RO capabilities that are supported in terms of actors and integration profiles described in the technical frameworks of each domain.

Users familiar with these concepts can use Integration Statements to determine the integration of RayStation with complementary systems and what clinical and operational benefits such integration might provide. This Integration Statements is intended to be used in conjunction with the RayStation DICOM Conformance Statement.

1.2 PRODUCT VERSION

This Integration Statement is valid for RayStation 2024B.

1.3 ABOUT THE TESTING PROCESS

IHE provides a process for vendors to test their implementations of IHE actors and integration profiles. The IHE testing process, culminating in a multi-party interactive testing event called the Connect-a-thon, provides vendors with valuable feedback and provides a baseline indication of the conformance of their implementations. The process is not intended to independently evaluate, or ensure, product compliance. In publishing the results of the Connect-a-thon and facilitating access to vendors' IHE Integration Statements, IHE and its sponsoring organizations are in no way attesting to the accuracy or validity of any vendor's IHE Integration Statements or any other claims by vendors regarding their products.

RaySearch Laboratories has done further validation beyond the IHE-RO Connect-a-thon to ensure that RayStation conforms to applicable standards. This Integration Statement shall not be used a guarantee that RayStation will work in any environment or with any external system.

1.4 REFERENCES

Reference	Resource
DICOM	https://www.dicomstandard.org/
IHE	https://www.ihe.net/
IHE-RO	https://www.ihe.net/ihe_domains/radiation_oncology/

1.5 DEFINITIONS

Term	Meaning
CE	CE marking is a certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA)
DICOM	Digital Imaging and Communications in Medicine
EEC	European Economic Community
IHE	Integrating the Healthcare Enterprise
IHE-RO	Integrating the Healthcare Enterprise Radiation Oncology
BRT0-II	Basic RT Object Interoperability-II (IHE-RO Profile)
DRRO	Deformable Registration for Radiation Oncology (IHE-RO Profile)
MMRO-III	Multi-Modality Registration in Radiation Oncology-III (IHE-RO Profile)
TPPC	Treatment Planning – Plan Content (IHE-RO Profile)

1.6 INTEGRATION STATEMENT

IHE-Integration Statement	Date	9 January 2025
Vendor	Product Name	Version
RaySearch Laboratories	RayStation	2024B
This product implements all transactions required in the IHE Technical Framework to support the IHE Integration Profiles, Actors and Options listed below:		
Integration Profiles Implemented	Actors Implemented	Options Implemented
BRT0-II	Contourer	Resample CT, Feet First, Structure Set Retrieval
	Dose Displayer	-
MMR0-III	Registrator	REG Retrieval
	Registered Contourer	-
	Registered Display	-
	Registered Dose Display	-
DRR0	Deformable Registrator	-
	Deformable Displayer	-
	Image Deformer	-
	Dose Deformer	-
	Contour Deformer	-
TPPC	Basic Static Beam Producer	-
	Basic Static MLC Beam Producer	Bolus Beam Modifier
	Arc Beam Producer	-
	MLC Fixed Aperture Arc Beam Producer	-
	MLC Variable Aperture Arc Beam Producer	-
	Hard Wedge Beam Producer	-
	Virtual Wedge Beam Producer	-
	Motorized Wedge Beam Producer	-
	Static Electron Beam Producer	-
	Step & Shoot Beam Producer	-
	Sliding Window Beam Producer	-
	IMAT/VMAT Beam Producer	-
	Photon Applicator Beam Producer	-
	Photon Applicator Arc Beam Producer	-
	Basic Static Beam Consumer	-
	Basic Static MLC Beam Consumer	-
	Arc Beam Consumer	-

	MLC Fixed Aperture Arc Beam Consumer	-
	MLC Variable Aperture Arc Beam Consumer	-
	Hard Wedge Beam Consumer	-
	Virtual Wedge Beam Consumer	-
	Motorized Wedge Beam Consumer	-
	Static Electron Beam Consumer	-
	Step & Shoot Beam Consumer	-
	Sliding Window Beam Consumer	-
	IMAT/VMAT Beam Consumer	-
	Photon Applicator Beam Consumer	-
	Photon Application Arc Beam Consumer	-
Links to Standards Conformance Statements for the Implementation		
DICOM IHE	https://www.raysearchlabs.com/product-configurations/	
Links to general information on IHE		
In North America: www.ihe.net	In Europe: www.ihe-europe.org	In Japan: www.jira-net.or.jp/ihe-j



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