

Oncentra[®] External Beam v4.0

REF 170.730

IHE Integration Statement

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Your Distributor / Agent

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1. Introduction

1.1 General

This document specifies the Integrating the Healthcare Enterprise (IHE) conformance of the Oncentra radiotherapy treatment planning system.

1.2 Intended Audience

This document is intended for system developers, system integrators, and users or potential users of the Oncentra system (or their agents).

It is assumed that the reader of this document is familiar with IHE.

1.3 Important Notes

The document itself does not guarantee successful IHE communication between Oncentra and non-Oncentra applications that claim conformance to IHE. However, it is the user's (or the user's agent) responsibility to address at least the following issues:

1.3.1 Interoperability

Integration in terms of interoperability of modalities claiming conformance to IHE goes beyond the IHE Integration Statement.

When intending to connect to non-Oncentra applications, users or their agents are encouraged to carefully examine the IHE Integration Statements of the other application, to ensure that both applications offer support for the same actors.

1.3.2 Validation

IHE compliance of Oncentra has been carefully tested to assure compliance of the system with this IHE Integration Statement. However, connectivity and proper functionality with other vendors' products has to be verified prior to clinical use of the applications.

It is the responsibility of the users (or their agents) to verify IHE connectivity within the environment in which the Oncentra applications shall be used. In this respect Nucletron will assist the user as far as possible.

1.3.3 Evolution of the IHE Technical Framework

It is expected that the IHE Technical Framework will be further developed to meet future requirements. Nucletron is actively contributing to these developments. Therefore, it is natural that the Nucletron products will be adapted due to changes in the IHE Technical Framework.

The user is encouraged to make sure that any product from another vendor is also continuously adapted to IHE revisions. Ignoring this will increase the risk of losing connectivity and/or interoperability.

2. Integration Statement

IHE Integration Statement			
Vendor	Product Name	Version	Date
Nucletron B.V.	Oncentra	v4.0	December-2010
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	
RT Objects Integration Profile*	Contourer	n/a	
	Geometric planner	n/a	
	Dosimetric planner	n/a	
	Dose Displayer	n/a	
Multi Modality Registration Profile*	Registrator	n/a	
	Registered Contourer	n/a	
	Registered Display	n/a	
	Registered Dose Display	n/a	
Advanced RT Objects Interoperability Profile**	Basic Static Beam Producer	Bolus Beam Modifier Storage	
		Block Beam Modifier Storage	
	Basic Static Beam Consumer	Bolus Beam Modifier Retrieval	
		Block Beam Modifier Retrieval	
	Motorized Wedge Beam Producer	Bolus Beam Modifier Storage	
		Block Beam Modifier Storage	
	Motorized Wedge Beam Consumer	Bolus Beam Modifier Retrieval	
		Block Beam Modifier Retrieval	
	Hard Wedge Beam Producer	Bolus Beam Modifier Storage	
		Block Beam Modifier Storage	
	Hard Wedge Beam Consumer	Bolus Beam Modifier Retrieval	
		Block Beam Modifier Retrieval	
	Virtual Wedge Beam Producer	Bolus Beam Modifier Storage	
		Block Beam Modifier Storage	
	Virtual Wedge Beam Consumer	Bolus Beam Modifier Retrieval	
		Block Beam Modifier Retrieval	

	Arc Beam Producer	Bolus Beam Modifier Storage
	Arc Beam Consumer	Bolus Beam Modifier Retrieval
	Conformal Arc Beam Consumer	Bolus Beam Modifier Storage
	Sliding Window Beam Consumer	Bolus Beam Modifier Retrieval
	Step & Shoot Beam Producer	Bolus Beam Modifier Storage
		Block Beam Modifier Storage
		Hard Wedge Beam Modifier Storage
	Step & Shoot Beam Consumer	Bolus Beam Modifier Retrieval
		Block Beam Modifier Retrieval
		Hard Wedge Beam Modifier Retrieval
	Static Electron Beam Producer	Bolus Beam Modifier Storage
		Block Beam Modifier Storage
	Static Electron Beam Consumer	Bolus Beam Modifier Retrieval
		Block Beam Modifier Retrieval
	IMAT/VMAT Beam Producer	Bolus Beam Modifier Storage
	IMAT/VMAT Beam Consumer	Bolus Beam Modifier Retrieval
	Basic Static MLC Beam Producer	Bolus Beam Modifier Storage
	Basic Static MLC Beam Consumer	Bolus Beam Modifier Retrieval
	MLC Arc Beam Producer	Bolus Beam Modifier Storage
	MLC Arc Beam Consumer	Bolus Beam Modifier Retrieval
Internet address for Nucletron's IHE information: http://www.nucletron.com/Oncentra/Pages/OncentraandIHEIntegrationstatement.aspx		
Links to Standards Conformance Statements for the Implementation		
HL7	n/a	
DICOM	http://www.nucletron.com/Resources/Documents/77700089MAN-DICOM_Conf_Statement.pdf	
Links to general information on IHE		
In North America: www.rsna.org/IHE	In Europe: www.ihe-europe.org	In Japan: www.jira-net.or.jp/ihe-j

* The actors in this profile are unchanged for Oncentra v4.0 and were tested successfully with Oncentra v3.3 in the 2009 IHE-RO Connectathon.

** This profile was tested again in the 2010 IHE-RO Connectathon with Oncentra v4.0. However, not all actors had sufficient partners to officially pass the profile in the Connectathon. Nucletron B.V. verified that all the listed actors comply with this profile.