

New Features and Enhancements

Velocity™ oncology imaging informatics system version 4.1

Feature	New Feature/Enhancement Description
RapidSphere™ Enhancements*	<ul style="list-style-type: none"> • Support for positron emission tomography (PET) volumes for dose conversion workflow • DICOM RT-Plan file created for each dose volume generated • Improved reporting for post-treatment planning review • RapidSphere Tradeoff Explorer allows the user to retrospectively explore the tradeoffs between different injected activities and the associated dosimetry.
Automation & Data Management	<p>DICOM Enhancements</p> <ul style="list-style-type: none"> • Import, viewing, and registration for enhanced multi-frame CT/MR datasets and multi-phase CT/MR datasets are now supported. • VelocityGRID now supports DICOM C-GET Service Class Provider
Navigator Enhancements	<p>New Container Plan Navigator</p> <ul style="list-style-type: none"> • Creates a container (empty) plan for dose objects that do not have a connected DICOM RT-Plan • Streamlines the transfer of the delivered dose file from Velocity to other systems
	<p>ACTOR Navigator</p> <p>The Adaptive Calculation and Tracking for Offline Review (ACTOR) will now support:</p> <ul style="list-style-type: none"> • A single imaging volume to perform adaptive analysis for one plan or fraction • Manual registration capabilities
	<p>4D Image Phase Volumes Navigator</p> <p>Now supports the generation of a mid-position (MidP) image, minimum intensity projection (MinIP) image, and median intensity projection (MedIP) image.</p>
BED and EQD Enhancements	<p>BED and EQD functions have been combined into a single navigator.</p> <ul style="list-style-type: none"> • EQD now allows for arbitrary dose fractionation. • New functionality <ul style="list-style-type: none"> - Exponential Decay Model - Support for Time Repair Factor
User Interface Improvements	<p>Workflow Enhancements</p> <ul style="list-style-type: none"> • The system retains the window level last utilized for each image volume and recalls this for use on subsequent viewing. • A new Blending Bar allows the user to rapidly change the blending levels between image volumes. • In the Segmentation panel, a single left click on the name of a loaded structure will automatically align the image volume display to the center of that structure.
	<p>Contour Scripting Enhancements allows user to script:</p> <ul style="list-style-type: none"> • Assignment of Structure Identification Codes and Physical Property Value • Interpolation of structures • Structure delete operation

* RapidSphere™ image-guided Y-90 dosimetry is a purchasable option.

Specifications and prerequisites are subject to change without notice. Not all features or products are available in all markets.

Intended Use Summary

Velocity is a software package that provides physicians a means for comparison of medical data including imaging data that is DICOM compliant. It allows the display, annotation, volume operation, volume rendering, registration, and fusion of medical images as an aid during use by diagnostic radiology, oncology, radiation therapy planning and other medical specialties. Velocity is not intended for mammography.

Important Safety Information

Velocity solutions present data and images using approximations for imaging and treatment planning data visualization and are to be used solely for informational purposes.

Medical Advice Disclaimer

Varian as a medical device manufacturer cannot and does not recommend specific treatment approaches. Individual treatment results may vary.

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