



GE HealthCare

Intelligent Radiation Therapy™ (iRT)

Designed with clinicians for clinicians

iRT is a software application that unifies the radiation oncology workflow across simulation, planning, QA, and treatment. It integrates with existing systems regardless of vendor and enables radiation oncologists, physicists, dosimetrists, and therapists to work together using shared data and real-time tracking. iRT helps improve communication, streamlines handoffs, and reduces the administrative burden of manual processes. By helping eliminate silos and standardizing complex workflows, iRT helps ensure consistent, coordinated care while adapting to the unique needs of each department. iRT aims to empower clinical teams to deliver faster, safer, and more efficient treatment in any care setting.

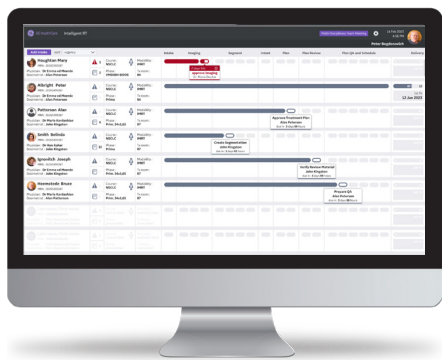
Features of iRT System

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| Workflow Manager: | Centralize and streamline your patient's journey with our Workflow Manager. This tool offers a comprehensive command center for managing patient care efficiently. |
| Course Directive: | Consolidate key patient care information in one place with Course Directive. This feature integrates Patient Intake, Simulation Orders, and Plan Intent, ensuring seamless coordination and accessibility. |
| Radiation Therapy (RT) Orchestrator: | Enables interoperability across major functional platforms and applications within your radiation oncology department. Enhance collaboration and efficiency in patient care. |
| AI Application Integration: | Leverage the power of AI ¹ by hosting applications within the iRT. This integration further streamlines clinical workflows, helping to enhance precision and productivity in patient care. |
| iRT MR Direct Solution* with MR Contour DL and MRI Planner: | iRT hosts and orchestrates MRI Planner and MR Countour DL applications into a seamless workflow (UI Mode or Headless mode) to generate synthetic CTs and segment organs at risk. |
| iRT InstaPlan Solution[^]: | Automates the CT-to-treatment planning process using iRT orchestrator and RayStation by RaySearch integration. Enables same-day planning, reducing planning cycle from days to minutes. ² |
| iRT for theranostics: | Supports planning and workflow for theranostic use cases (e.g., SPECT, PET). Connects with MIM, EMRs, and OIS for comprehensive molecular imaging workflows. |

*The MR Direct Solution is a commercial offering that can include GE HealthCare's Intelligent RT (iRT), MR Contour DL by GE HealthCare, and/or MRI Planner by Spectronic Medical. MRI Planner is manufactured by Spectronic Medical. Not available for sale in all regions.

[^]The InstaPlan Solution is a commercial offering that includes GE HealthCare's Intelligent RT (iRT) and RayStation by RaySearch. RayStation is manufactured by RaySearch. Not available for sale in all regions.

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iRT Specific Applications and Features



Workflow Manager

- Consolidated patient journey information in one place
- Automatic retrieval of patient information from OIS systems
- Customizable workflow manager for different treatment procedures
- Customizable dashboards for different users
- Customizable event and task reminder notifications via email
- Multi-language support for the user interface
- Automatic task completion and manual revert capability
- Track and analyze department KPIs, efficiency, performance, and patient volume trends by anatomy via Analytic Reports feature
- Optimize task assignments with Staff Scheduling feature based on availability, workload limits, and out-of-office status



Course Directive

- Customizable patient intake form
- Note management for course, phase, session, and each activity
- Customizable plan intent form and protocol manager
- Customizable simulation form placement



Radiation Therapy (RT) Orchestrator

- Management of multiple facilities within the same database
- Connection to Oncology Information Systems (OIS)
- Multi-modality image system connections including CT, MR, PET/CT and PACS
- Integration with MIM DICOM Viewer and MIM Maestro^{®3}
- Connection to RayStation^{®4} treatment planning system
- Support Citrix environment connection



AI Applications Orchestrator

- Spectronic Medical MRI Planner⁵
- MIM Contour ProtégéAI+^{TM3}
- MVISION GBSTM solution⁶
- Integration with MIM DICOM Viewer and MIM Maestro^{®3}
- Connection to RayStation^{®4} treatment planning system
- Support Citrix environment connection

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⁴The InstaPlan Solution is a commercial offering that includes GE HealthCare's Intelligent RT (iRT) and RayStation by RaySearch. RayStation is manufactured by RaySearch. Not available for sale in all regions.

⁵Available for iRT pro and limited configurations.

⁶Based on two InstaPlan solution clinical studies in Europe based on a total of 20 patients. Any results achieved using the iRT InstaPlan Solution may vary based on differences in workflows, patient populations or other factors.

⁷MIM Maestro and MIM Contour ProtégéAI+ is a purchasable software offered by MIM

⁸RayStation is a purchasable software offered by RaySearch

⁹iRT MR Direct Solution is not a device or manufacturer. MRI Planner is purchasable software offered by Spectronic Medical

¹⁰VISION GBSTM Solution is a purchasable software offered by Mvision

iRT and the applications may not be available in all regions. Please contact your GE HealthCare sales representative for more information.

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Technical Specification

Functional System Interoperability

- Health Level Seven (HL7[®] v2.x and FHIR R4 – Radiation Oncology workflows only)
- Digital Imaging and Communications in Medicine (DICOM, DICOM-RT 2nd Generation)
- Integrating Healthcare Enterprise – Radiation Oncology (IHE-RO)
- Oncology Information System (OIS: Varian Aria, Elekta Mosaic – on-prem/cloud)
- Picture Archiving and Communication System (PACS)
- Multi-modality Imaging Systems (CT, MR, PET, Synthetic CT)
- Pre-treatment Planning Systems and Applications
- Treatment Planning Systems (TPS – Eclipse, RayStation, etc.)
- Third-party Radiation Oncology Applications (Citrix, URL-based launch only)
- EMR Interoperability (Epic, Cerner for Radiation Oncology modules) via:
 - HL7 v2.x routing through Corepoint, Cloverleaf, or OpenLink
 - FHIR R4 endpoints where available (CarePlan, Task, DocumentReference)

Minimum Platform Requirements

- CPU: Dual Intel Xeon 6230 (or equivalent HPE DL380 Gen11 supported)
- Memory: 512 GB DDR4 ECC Registered LRDIMM (expandable as required by AI models)
- Storage: 6 × 1.92TB SATA SSD (RAID-10 supported)
- GPU: 2 × NVIDIA Tesla T4 (or upgrade path to A100 for DL workloads)
- Network: 2 × 10GbE Ports (backward compatible with 1GbE)
- Virtualization Support: KVM Hypervisor, QCOW2/ISO image deployment; roadmap to VMDK/VMware

Minimum System Requirements

- Platform Setup (Neo/EHS for iRT):
 - Compatible with standard hospital IT environments
 - Supports secure network configuration, firewall integration, and remote access through customer-approved methods
 - Security hardened (anti-virus, vulnerability scanning, encrypted media)
- Interoperability Setup:
 - Interfaces with Oncology Information Systems (Varian Aria, Elekta Mosaic)
 - HL7 v2.x messaging supported via Cloverleaf, Corepoint, or OpenLink
 - FHIR R4 endpoints available for Radiation Oncology workflows
- Workflow Integration:
 - MR Contour DL – automated contouring (black-box options)
 - iRT InstaPlan Solution[^] – planning workflow from CT or PACS Direct
 - Staff Scheduling – role-based calendar management
 - Analytics & Reporting – KPI dashboards with export and print
 - Eclipse Launch – supports direct launch with patient context
- Data Handling:
 - Supports DICOM and DICOM-RT for Radiation Oncology
 - Handles multi-modality images (CT, MR, PET, Synthetic CT)
 - iRT does not store patient images permanently, data passed securely by reference



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