

# iDMS™ DATA MANAGEMENT AND ACCURAY PRECISION® SYSTEM

## PREPARATION, INSTALLATION, AND TRAINING OVERVIEW

### Schedule

- Up to three months prior to the upgrade to iDMS™ Data Management System (depending on the system model), Accuray will begin installing hardware and software prerequisites. Some features involve system down time and follow-up calibration work. Please discuss exact timelines with the Accuray Project Manager.
- One month prior to the upgrade to iDMS, all clinicians should have finished attending training courses and begin pre-upgrade tasks.
- Expect five days of system down time for the iDMS upgrade. This includes time for the physicist to complete post-upgrade tasks before returning the system to clinical use. For customers who already have a CyberKnife® System that is connected to iDMS, expect one day of down time for that device.
- An Accuray Clinical Applications Specialist will provide three consecutive days of on-site training after the upgrade has been installed. Training will focus on review and practice of learned planning and treatment delivery skills.

### System and Software Tool Readiness

As needed: Accuray will install hardware and software prerequisites. Please review applicable training materials (see Section I.A of training document **1057435**) and perform QA as needed.

- 5.1.1/2.1.1 software
- Magnetron Frequency Locking
- Blue Tube magnetron
- Primary Collimator (Gen 2 Jaws) and Dose Control System
- SCS for stationary computer
- 12-inch Positioning Control Panels on the gantry

Additional system modifications may be required to bring older systems to the standard configuration prior to the upgrade to iDMS Data Management System and Accuray Precision® Treatment Planning.

### Training and Education Advance Work [Register at www.accuray.com/training](http://www.accuray.com/training)

To ensure a successful clinical experience, Accuray provides required training for all sites prior to upgrading to TomoTherapy with iDMS.

Customized Training Based on Experience of Individual Clinicians		
	Full System Essentials Training	Accelerated Differences Training
<b>This offering is appropriate for</b>	<ul style="list-style-type: none"> <li>• New users</li> <li>• Current users who would benefit from detailed review of system principles, more examples, more guided practice</li> </ul>	<ul style="list-style-type: none"> <li>• Current confident TomoTherapy® System user</li> <li>• Confident user of TomoEDGE™ dynamic jaws and the TomoDirect™ feature</li> <li>• Confident in commissioning and QA of a TomoTherapy System (physicists)</li> </ul>
<b>Required homework prior to class?</b>	Yes	Optional
<b>Training for Physicists</b>	Two visits to Accuray training center (or stay over weekend): <ul style="list-style-type: none"> <li>• Physics Essentials (4.5 days)</li> <li>• Extra session on patient management during upgrade (1 hour)</li> <li>• Accuray Precision Planning (3 days)</li> </ul>	One visit to Accuray training center: <ul style="list-style-type: none"> <li>• Physics Differences (2 days)</li> <li>• Accuray Precision Differences (2 days)</li> </ul>
<b>Training for Dosimetrists/Planners</b>	Accuray Precision Planning (3-3.5 days)	Accuray Precision Differences (2 days)
<b>Training for Therapists/Technologists</b>	Radixact® Treatment System Delivery (3 days) On-site training	On-site training

The interfaces for planning, delivery, and data management are completely re-designed, with substantial new features. For details, see training document **1057435**. The physicist will need to be proficient in using the new software as soon as the upgrade is done in order to complete steps that allow post-upgrade treatments.

### Customer physics tasks before the upgrade

- Work with the Accuray FSE and hospital IT to prepare network connectivity information (IP addresses and ports), per document T-COD-HB0048: “Network System Requirements.”
- Gather files that will be needed for the new planning system:
  - Image Value to Density Table(s)
  - DICOM files of kVCT scan of the Tomo-Phantom for absolute dose calibration
- The upgraded system provides for patient QA calculations and patient QA dose export, but does not include DQA analysis. Identify a patient QA analysis solution (film analysis software or array device), and learn to use it. Prepare a phantom kVCT scan.
- Prepare for the transition of patients to the iDMS™ System (see training document 1057735):
  - One month in advance, begin archiving and deleting inactive patients from your TomoTherapy® System. Move patient archives (and other files as needed) to permanent storage.
  - Identify active patients whose plans are eligible for transfer to the iDMS System, according to the provided criteria. Prepare patient files for transfer by editing patient and plan names as needed, delivering completion procedures, approving plans and boosts, etc.
  - After the last fraction is delivered from the TomoTherapy Operator Station, archive all active patients from the TomoTherapy System.

### Customer physics tasks after the upgrade and before returning the system to clinical use

- Import active plans to the iDMS System.
- Examine and approve transferred dose distributions for each patient.
- Create, deliver, and analyze patient QA for each plan.
- Customize the new Accuray Precision® System for planning (set user accounts, enter density model, etc.)
- If any active patients were not eligible for import to the iDMS System, re-plan them in the Accuray Precision System.
- Perform additional post-upgrade system QA as desired.

## CONTACTS

**Discuss installation prerequisites and schedule:** Please contact the Accuray Project Manager.

**Request training materials:** [producttraining@accuray.com](mailto:producttraining@accuray.com)

**Register for training courses:** [www.accuray.com/training](http://www.accuray.com/training)

**Discuss physics questions:** [www.accuray.com/service-request](http://www.accuray.com/service-request)

**Access user manuals for TomoTherapy with iDMS:** <https://accurayexchange.com/support/user-documentation>  
(request an AERO™ account at <https://accurayexchange.com/user/register>)

## REFERENCE DOCUMENTS

- Training document 1057435, “TomoTherapy System Upgrade to iDMS Data Management System and Accuray Precision Treatment Planning: Software Introduction for Physicists”
- Training document 1057735, “Working with Plans Created on a TomoTherapy Planning System, After an Upgrade to iDMS Data Management System”
- Full System Essentials Course Descriptions (physicist should attend both physics and planning):
  - Physics: 1061005 (contact training dept for availability of training on TomoTherapy with iDMS platform)
  - Accuray Precision Planning: 1061007 (TomoTherapy with iDMS users attend class with Radixact users)
  - Delivery: 1061006 (TomoTherapy with iDMS users attend class with Radixact users)
- Accelerated Differences Course Descriptions (physicist should attend both physics and planning):
  - Physics: 1061575
  - Accuray Precision Planning: 1061655
- T-COD-HB0048: “Network System Requirements, Radixact or TTDS w/iDMS”

## FOR CUSTOMERS UPGRADING TO IDMS FOR USE WITH RAYSTATION®:

- The iDMS Upgrade will include a 60-day license to Accuray Precision Treatment Planning.
- This license allows users to migrate in-process patients using Accuray Precision, minimizing the need to re-plan these cases.
- Attendance at the Accuray Precision Treatment Planning class is optional. An abridged Accuray Precision overview will be included with on-site training after the upgrade has been installed.
- Plan new cases using RayStation® and complete all in-process patients before the conclusion of the 60-day license.