

1 **ONC Pinnacle w/Dynamic Plan** **1**
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Clinical Education Program for Oncology Pinnacle3 Dynamic Planning:

The purchase of Dynamic Planning entitles customers to 3 consecutive, 8 hour days (24 hours total) of education by a Philips Clinical Education Specialist for up to three (3) dedicated therapy staff members, as selected by customer. This course covers new and extended features of Pinnacle3 for radiation therapy treatment planning and clinical use of Dynamic Planning. All lecture/demonstration will assure efficient and competent operational use of Pinnacle3 functionality and Dynamic Planning. Medical dosimetrists, treatment planners, medical physicists and radiation oncologists are the intended audience. This applications training is conducted at the customer's facility. ASRT and/or MDCB CEU credits may be available for each participant that meets the training guidelines provided by Philips. Please refer to the guidelines for more information. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Note: The North America Clinical Education Specialists for oncology are a team of Certified Medical Dosimetrists with expert level knowledge of the Pinnacle3 product, radiotherapy treatment planning and CT simulation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref #296265-07082015

2 **ONC Pinnacle Auto-Seg w-** **1**
SPICE

Clinical Education Program for Oncology Pinnacle3 Auto-Segmentation with SPICE:

The purchase of SPICE entitles customers to 3 consecutive, 8 hour days (24 hours total) of education by a Philips Clinical Education Specialist for up to three (3) dedicated therapy staff members, as selected by customer. This course covers new and extended features of Pinnacle3 for radiation therapy treatment planning and clinical use of Auto Segmentation with SPICE. All lecture/demonstration will assure efficient and competent operational use of Pinnacle3 functionality and Auto Segmentation with SPICE. Medical dosimetrists, treatment planners, medical physicists and radiation oncologists are the intended audience. This applications training is conducted at the customer's facility. ASRT and/or MDCB CEU credits may be available for each participant that meets the training guidelines provided by Philips. Please refer to the guidelines for more information. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

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Expert Server Package

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Pinnacle3 Expert Server is a departmental computing system for Philips Pinnacle3 radiation therapy planning software. Pinnacle3 Expert Server is a single integrated computer providing applications, data storage, fileserver and computing functionality. Users may access the system via the following clients each sold separately:

- Thin Clients – Sun Ray DTU's, Virtual Client Connections (VCC) or PC Access Point Kit
- Thick Clients – Expert Client, 810X Client and 810 Client systems for use in client-server deployment

Pinnacle Expert Server specifications (subject to change):

- CPU – XEON 3.5GHz, 4-CORE, 8M Cache Embedded
- Memory – 32GB DDR3 1333MHZ ECC Dual Rank Memory
- Operating System Storage – (1) 128GB SSD Hot Swappable
- Patient Data RAID Storage – (4) 2TB Seagate Constellation Series HDD, Hot Swappable
- RAID Card – (1) LSI 6GB SAS with Battery Backup
- 24" LCD display (1900x1200) included
- Two 100/1000 Mbps network ports
- DVD drive
- Data storage specifics: Four (4) 2TB (raw) hard disk drives; configured in a RAID5 storage array with a single hot-spare hard drive. This configuration will yield roughly 3.5TB of usable storage for patient data, Pinnacle binaries, and user home directories.
- The Root (/) file system as well as /PrimaryPatientData (Patient Data), /export (Pinnacle Binaries & Home Directories), and /files (DICOM Server) file systems will use the ZFS file system.

Performance Notes:

While the customer can install multiple thin client or VCC access points per Expert system, a MAXIMUM of 3 active connections at a time should be used to retain performance integrity.

For best performance, do not open a plan or plans that will exceed the 30GB of physical RAM. System performance will degrade significantly if all running plans exceed the physical 30GB limit. System performance will also be degraded if the system thread limit (8) is exceeded. For example, 2 simultaneously calculating SmartArc plans will use 4 threads each, or 8 threads total. Additional activity on the system will cause reduced performance; however remaining under 30GB of RAM is the most important consideration.

Delivery lead-times may be up to 4 weeks. Please consult with your local sales representative for available installation dates.

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**Expert Country Kit-
ENG(US/CAN)**

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Single Seat Dyn Plan Lic

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Dynamic Planning 810/Expert System License

Dynamic Planning system license for one Pinnacle3 or AcQSim3 810/Expert System

Pinnacle3 Dynamic Planning is a software option that makes re-treatments and treatment adaptation fast, easy and clinically feasible.

- **Fast Assessment**
Providing convenient tools for geometric and dosimetric assessment, as well as trending tools allowing visualization of ROI changes over time, Dynamic Planning allows you to evaluate an original treatment plan on a new CT image set and quickly make a decision of whether to re-plan or continue treating with the original plan.
Both standard fanbeam helical CT and Cone Beam CT (CBCT) are supported.
- **Automate Re-Planning**
Following assessment, once the decision to re-plan has been made, re-planning can be completed in minutes with just a few mouse clicks.
- **Manage Treatment Plans Over Time**
Quickly and simply view and navigate among current and previous plans used for the patient with Dynamic Planning's new Record Viewer & Treatment Navigator functions
- **Facilitates Re-Treatments**
For patients that have been treated previously and present with new symptoms, Dynamic Planning's ability to copy the original plan to a new CT image set makes evaluating the combination of the original treatment and the new plan simple.
DICOM RT-Dose import is supported from 3 party systems, as is the ability to sum dose on the same image set.

Dynamic Planning is available with Pinnacle3 9.6 version software or greater.

Note: Pinnacle3 9.6 and Dynamic Planning are not compatible with SPARC Workstations or Servers. Please contact your Philips Radiation Oncology Systems sales or service representative for hardware upgrade requirements and options

IMPORTANT: A single seat Dynamic Planning license can only be used by the full-time equivalent of a single planner at your site. Additional licenses of Dynamic Planning will need to be purchased if additional planners will be using the application. Your local account executive can assist with the purchase of additional Dynamic Planning licenses.

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Single Seat SPICE Lic

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Auto-Segmentation with SPICE 810/Expert System License

Auto-Segmentation with SPICE system license for one Pinnacle3 or AcQSim3 810/810X/Expert System

Utilizing Philips proprietary "Smart Probabilistic Image Contouring Engine" technology, Auto-Segmentation with SPICE reduces hours of contouring to just a few mouse clicks and improves contouring consistency.

Auto-Segmentation with SPICE is available with Pinnacle3 9.4 version software or greater.

