

i-CAT[®]



Cone Beam 3D +
2D Panoramic Dental
Imaging System



Software Installation Training

I-6800-41

Award-Winning Cone Beam 3-D Imaging System

i-CAT[®]

Software Installation Overview

There are three possible installation scenarios:

- Standalone i-CAT FLXTM Installation (non-DEXIS)
- New DEXIS - i-CAT Installation
- Existing DEXIS site upgraded to DEXIS - i-CAT Installation

The i-CAT FLX comes with the following DVDs:

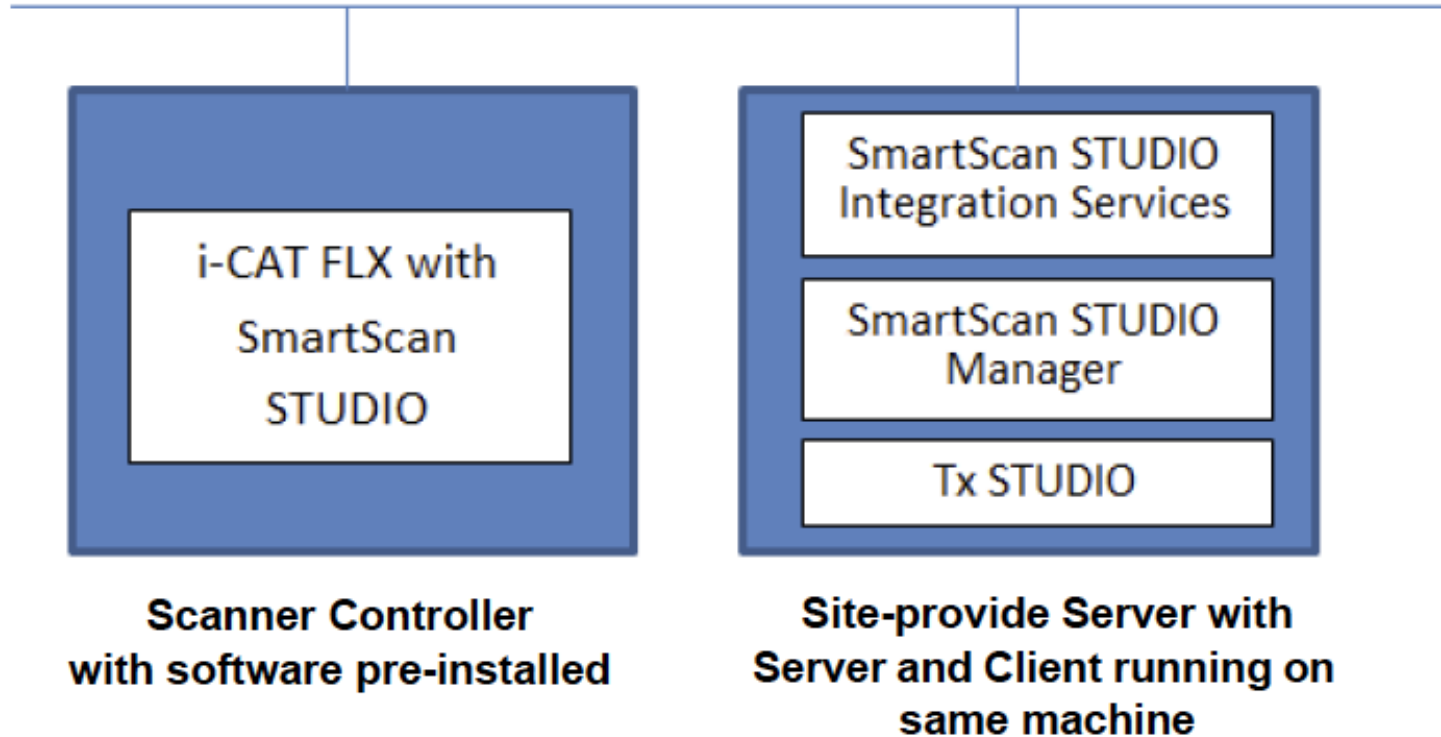
- SmartScan STUDIO Restorative DVD
- Imagers DVD
- SmartScan STUDIO Integration Services DVD
- SmartScan STUDIO Manager DVD
- DEXIS SmartScan STUDIO Integration Services

The following software is also required:

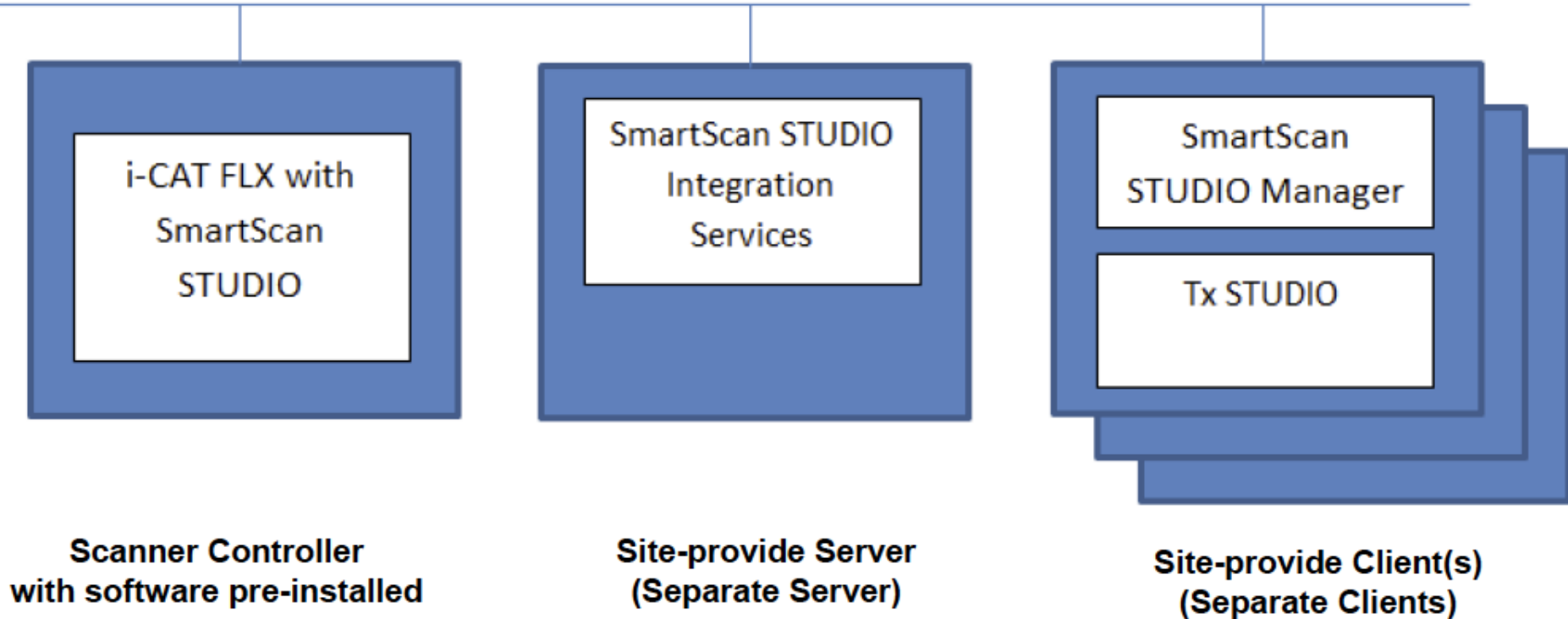
- Tx STUDIO 5.2.1 or higher - for all installation scenarios.
Used as the viewer for QA Test evaluation.
- DEXIS Imaging Suite Version 10.0.5 or higher - required for new DEXIS installations or if existing DEXIS site needs to be upgraded. Contains a server and a client component.

Standalone i-CAT FLX Installation

Shared Server - Client

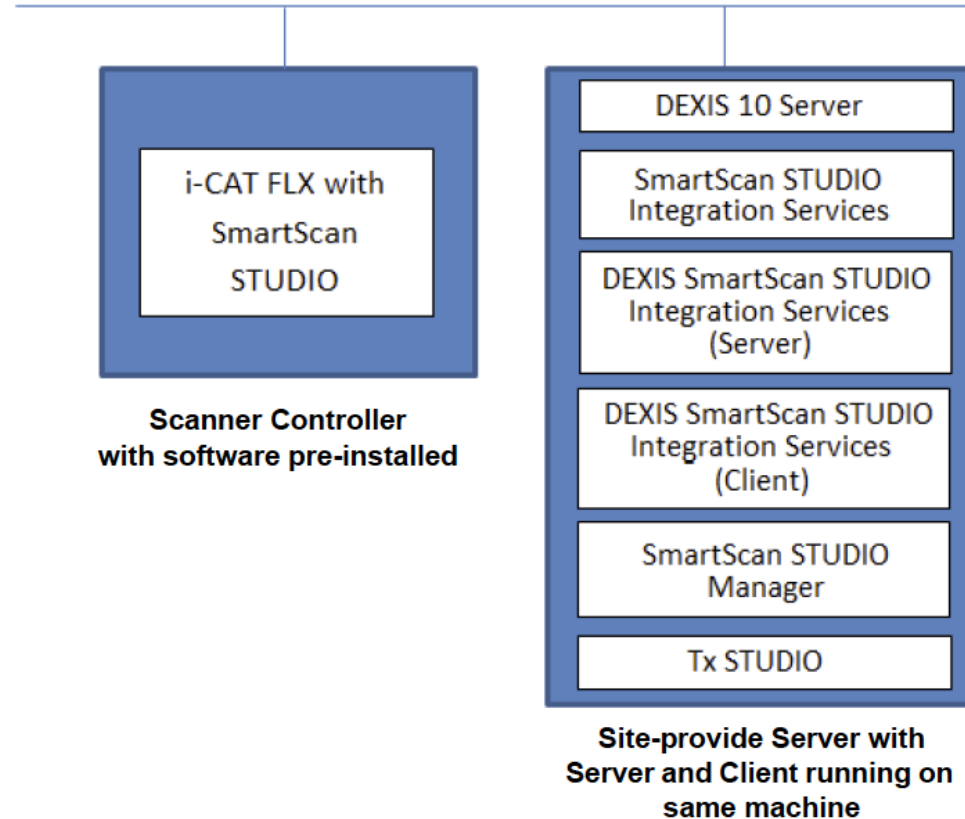


Separate Server and Client(s)

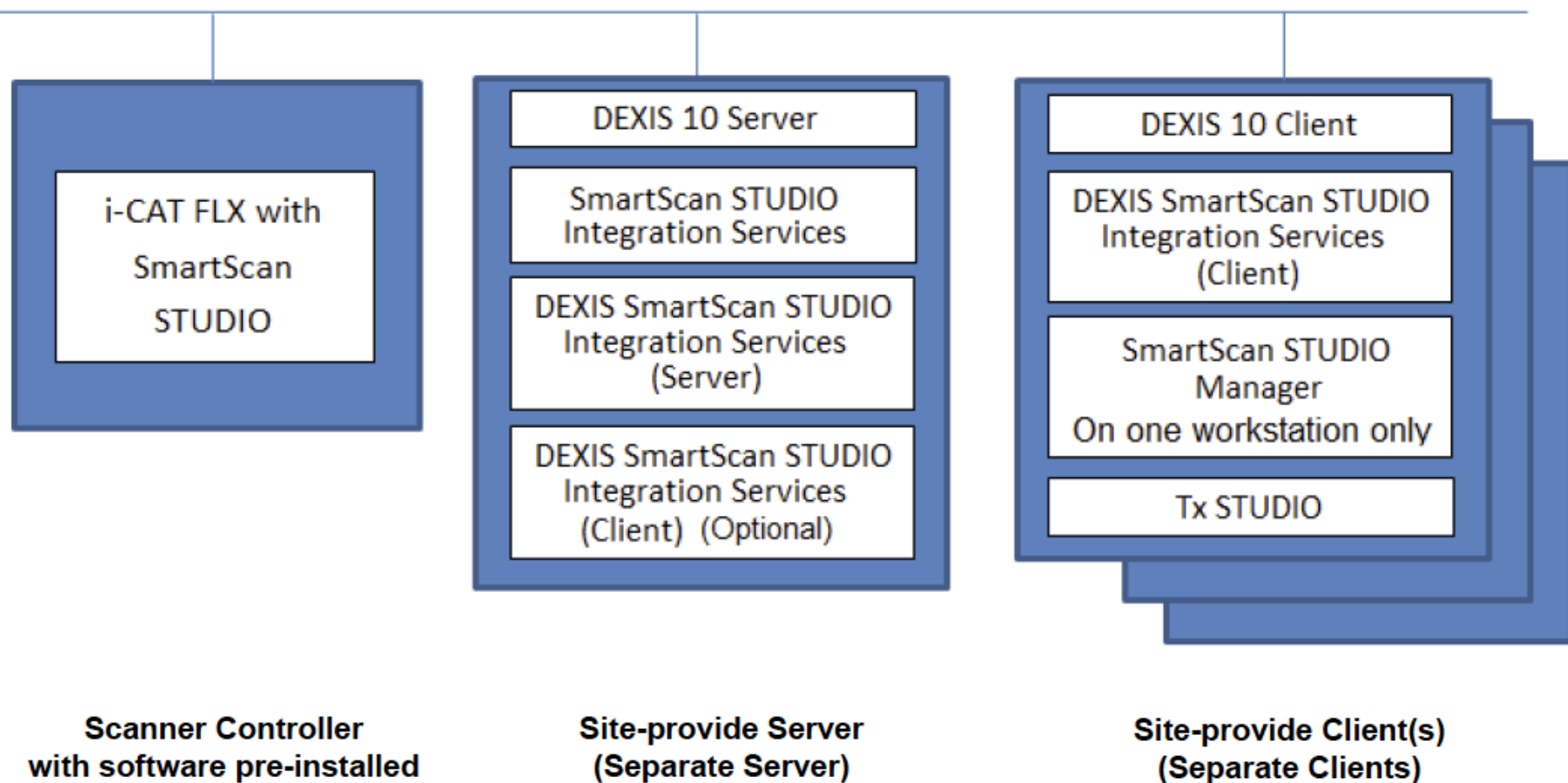


DEXIS - i-CAT FLX Installation (New or Existing)

Shared Server - Client



Separate Server and Client(s)



Standalone i-CAT FLX Installation

1. **Install i-CAT FLX:** Scanner and controller installed and networked with IP address. SmartScan STUDIO is pre-installed at the factory.
2. **Install SmartScan STUDIO Integration Services:** Install on the long-term storage server.
3. **Install SmartScan STUDIO Manager:** Install on workstations in front office, ops, and consultation rooms as required by the site.
4. **Install Tx STUDIO:** Install on workstations in ops and consultation rooms as required by the site.

Site-Provided Server

- SmartScan STUDIO Integration Services (2)
- (Optional) 3 and 4 if server is also a client

OPERATORY/ CONSULTATION AREA



Operator/Consultation Room

- SmartScan STUDIO Manager (3)
- Tx STUDIO (4)

SERVER/NETWORK



i-CAT FLX

- SmartScan STUDIO (pre-installed) (1)

REFERRAL



RECEPTION AREA

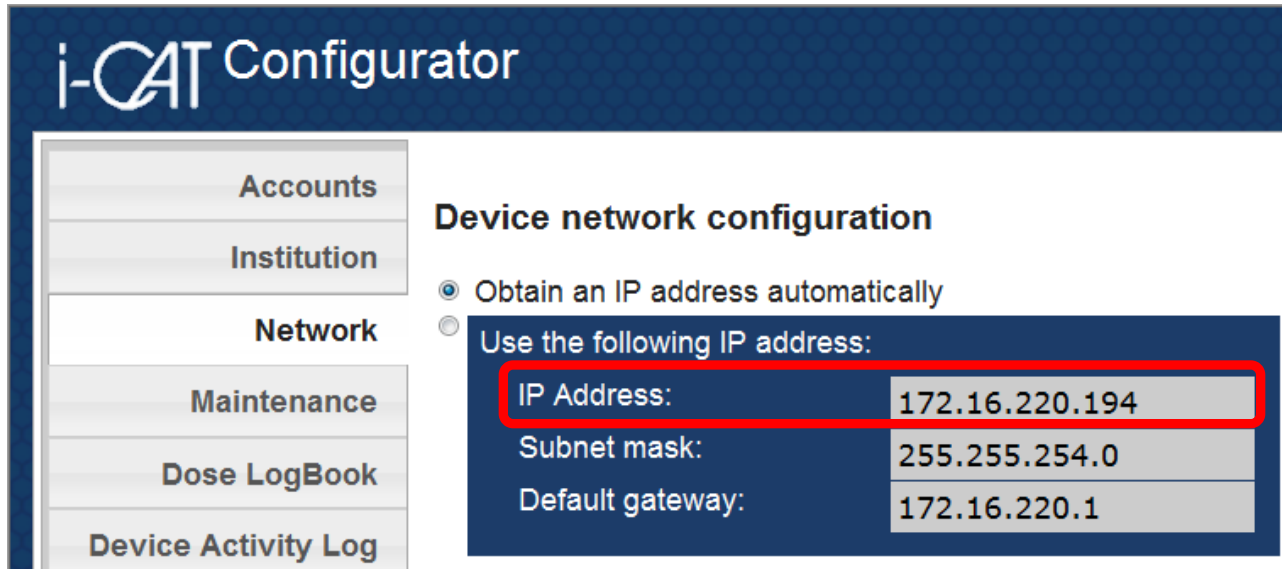
Reception Area

- Approved PMS (2.1)
- SmartScan STUDIO Manager (3)

Load and Configure SmartScan STUDIO Integration Services

- **SmartScan STUDIO Integration Services** should be loaded on the server that will be used as the long-term data storage device.
- **IMPORTANT** Be sure to load SmartScan STUDIO Integration Services on only one workstation at a site, which should be the server that will be used as the long-term data storage device.

1. Obtain IP address of i-CAT scanner controller:
 - a. At the scanner controller, login and select **Configurator** from the menu.
 - b. Select the **Network** option.
 - c. Record the value in the **IP Address** field.



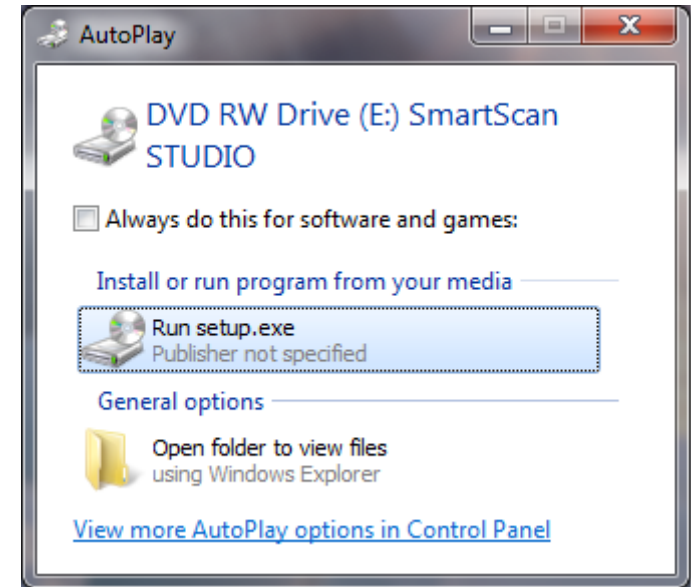
The screenshot displays the i-CAT Configurator web interface. On the left is a vertical menu with options: Accounts, Institution, Network (selected), Maintenance, Dose LogBook, and Device Activity Log. The main content area is titled 'Device network configuration'. It contains two radio buttons: 'Obtain an IP address automatically' (selected) and 'Use the following IP address:'. Below the second option is a table for manual configuration. The 'IP Address' field in this table is highlighted with a red rectangular border.

Device network configuration	
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Use the following IP address:	
IP Address:	172.16.220.194
Subnet mask:	255.255.254.0
Default gateway:	172.16.220.1

At server, insert DVD in drive.

Upon AutoPlay pop-up, select **Run setup.exe**. If AutoPlay pop-up does not display, navigate to the DVD drive, right-click and select **Open**.

If the server does **not** have .NET Framework 4 installed, a Microsoft license screen is displayed. Click **Accept**. The required files are copied and Microsoft .NET Framework 4 is installed.



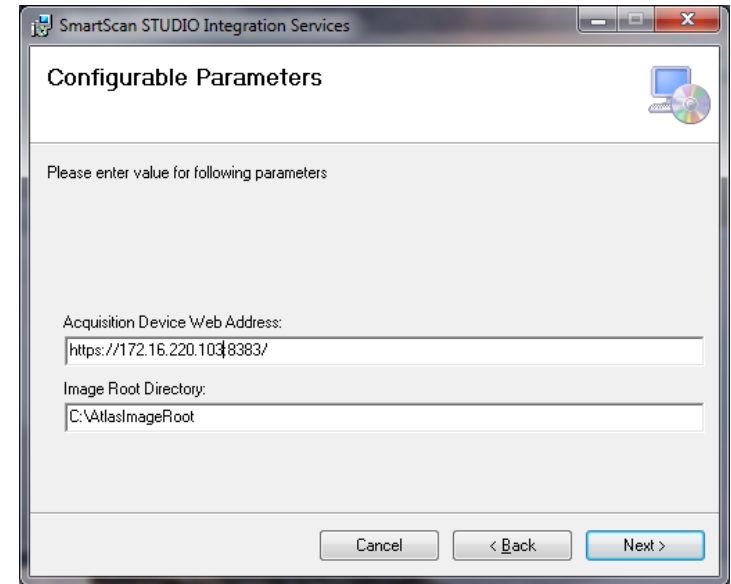
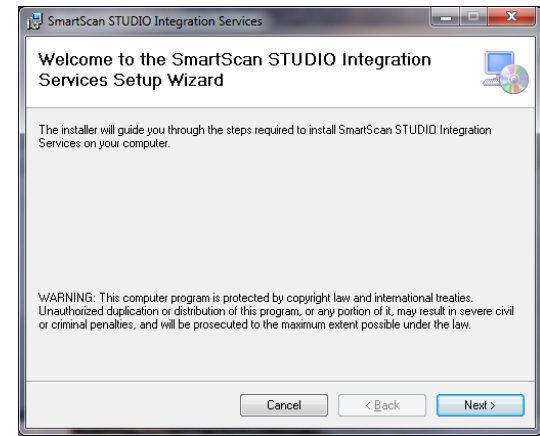
Click **Next** on the welcome screen.

On Configurable Parameters screen in the Acquisition Device Web Address field, replace **localhost** with the IP address noted in step 1. Do **not** overwrite **https://** or **:xxxx/** (4-digit port number) at the end of the address. Click **Next**.

On Select Installation Folder screen, use the default location. Click **Next**.

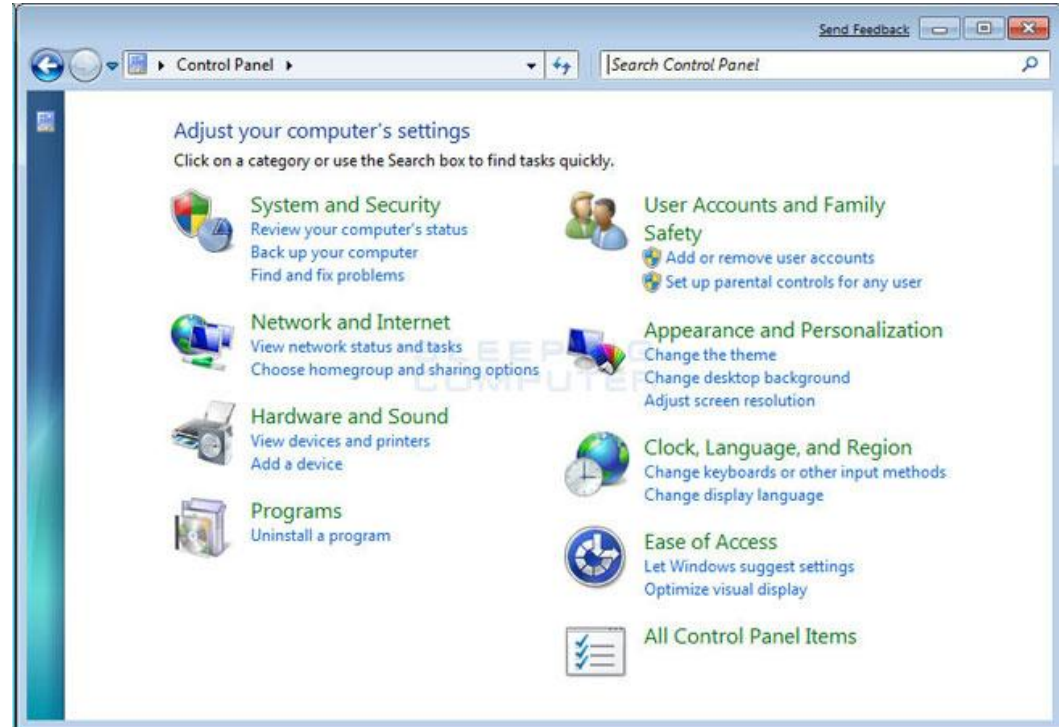
On Confirm Installation screen, click **Next**. Installation will start and a progress bar is displayed.

When installation completes, click **Close** on the Installation Complete screen. Remove DVD

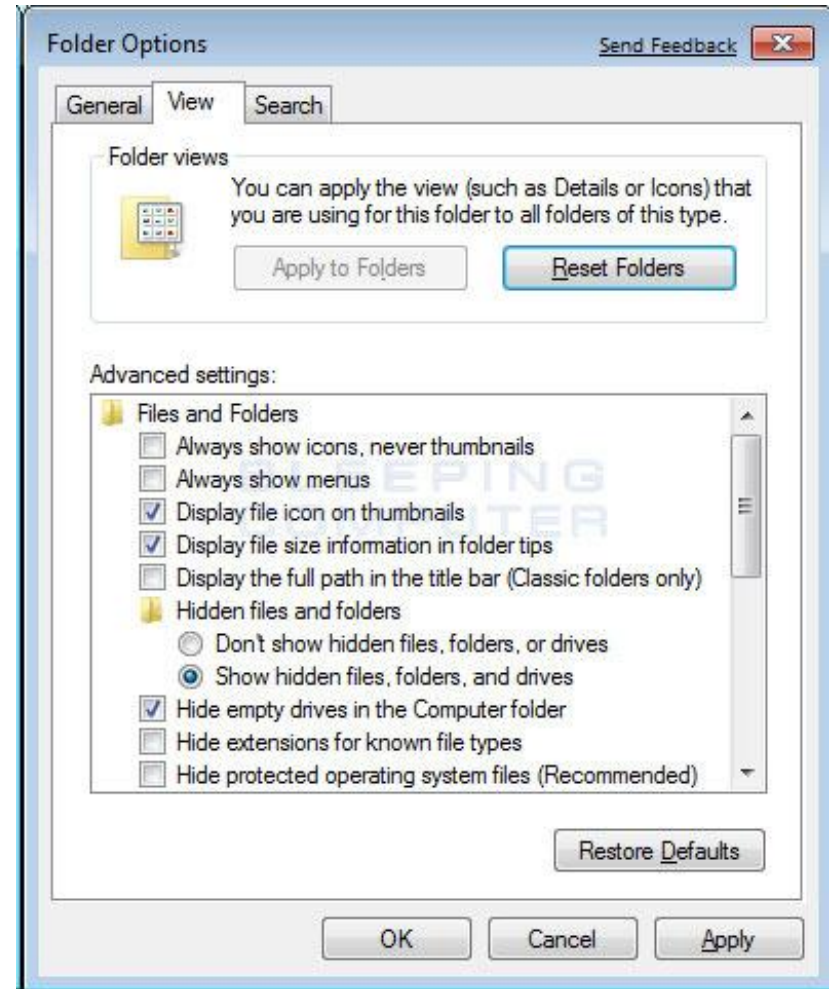


Adjusting Windows to Show Hidden Files & Folders (Windows 7)

- Close all programs so that you are at the desktop
- Click on the **Start** Button
- Click on **Control Panel**
- Click on **Appearances and Personalization**



- Under **Folder Options**, click on **Show hidden files and folders**
- Under **Hidden Files and Folders** select **Show hidden files, folders and drives**
- Remove the checkmark from **Hide extensions for known file types**
- Remove the checkmark **Hide protected operating systems files**
- Once complete, the window will look like this one.
- Click **Apply**, click **OK**



- Navigate to **C:\ProgramData\Dental Imaging Technologies Corporation\ImageRoot**.
- Right-click **ImageRoot** folder, and select **Share with->Specific people** from the pop-up menu.
- Enter or select **Everyone**, and click **Add**.
- Ensure Permission Level is set to **Read**. If not, select **Read** from drop-down menu.
- Click **Share**, then click **Done**.

Load and Configure SmartScan STUDIO Manager Software

- SmartScan STUDIO Manager should be loaded on every workstation where the site will be entering patient exam data or viewing patient images.

1. Obtain the IP address of the server that will be the long-term storage server.
 - a. At the long-term storage server, open a command window.
 - b. Enter **ipconfig**.
 - c. Record the IPv4 address of the server.

```
C:\Users\Atlas>ipconfig

Windows IP Configuration

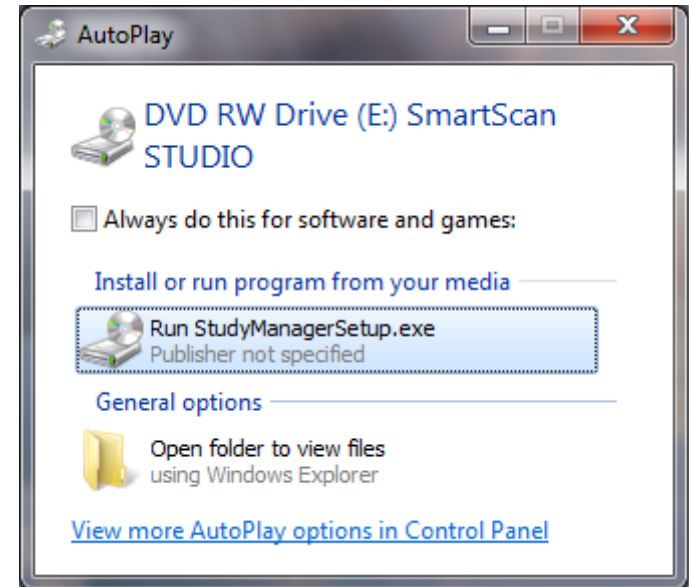
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : gendex.dhrmedical.org
    Link-local IPv6 Address . . . . . : fe80::2d2e:f67a:x13
    IPv4 Address. . . . . : 172.16.220.184
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 172.16.220.1
```

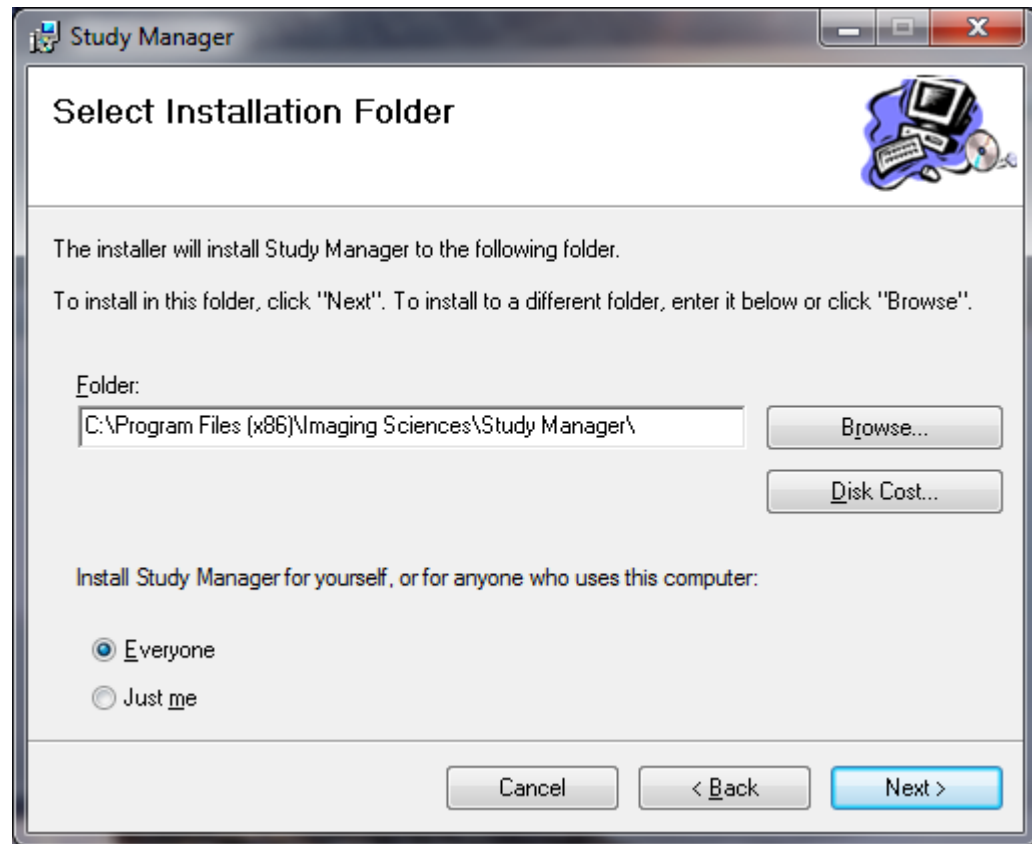
At the clinical workstation, insert DVD in drive.


Upon AutoPlay pop-up, select **Run SSSManagerSetup.exe**. If AutoPlay pop-up does not display, navigate to the DVD drive, right-click and select **Open folder to view files**, then double-click **SSSManagerSetup**.


If the server does **not** have .NET Framework 4 installed, a Microsoft license screen is displayed. Click **Accept**. The required files are copied and Microsoft .NET Framework 4 is installed.

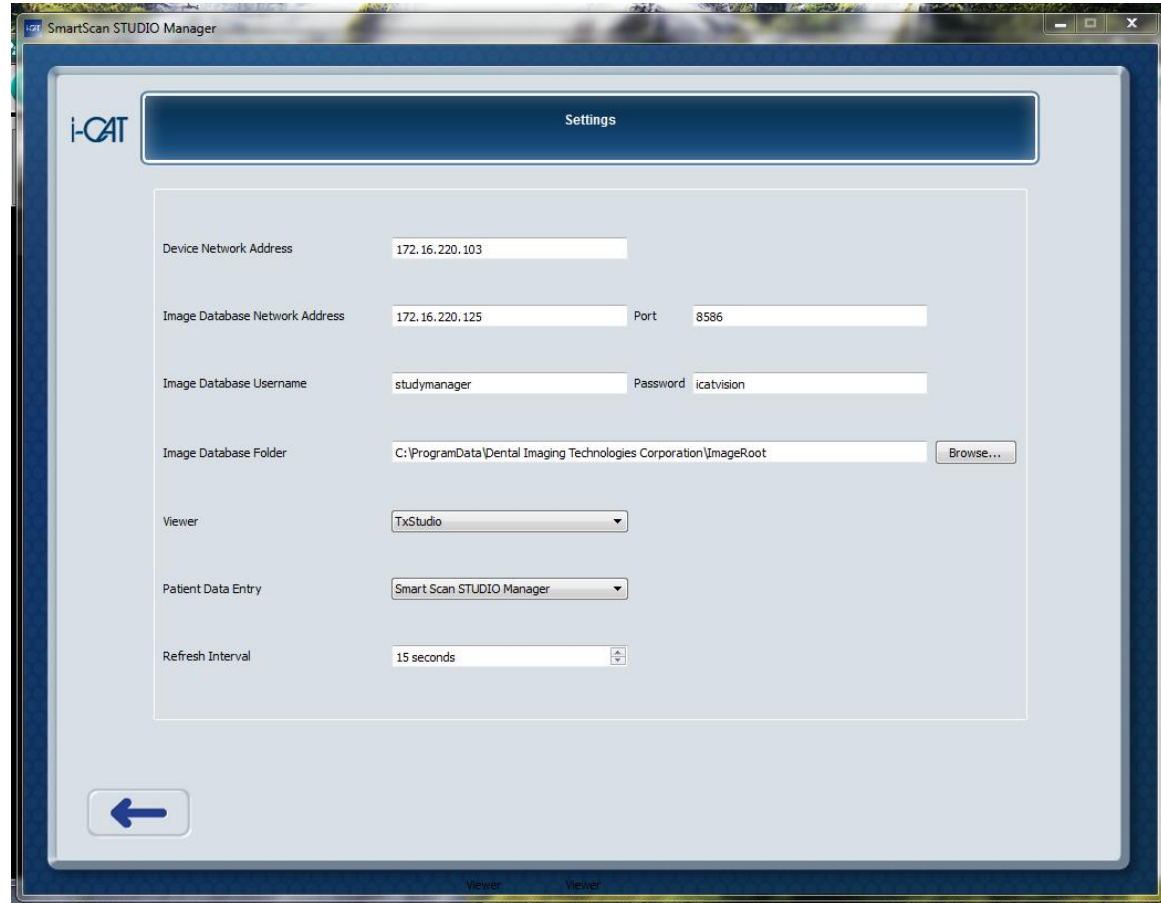


- Click **Next** on the welcome screen.
- On Select Installation Folder screen, use the default location. Click **Next**.
- On Confirm Installation screen, click **Next**. Installation will start and a progress bar is displayed.
- When installation completes, click **Close** on the Installation Complete screen and remove DVD.
- Launch SmartScan STUDIO Manager from Desktop.



Select  to access Settings.

Click  and close SmartScan STUDIO Manager. Re-open and check that options entered above were saved as expected.



The image shows the 'Settings' window of the SmartScan STUDIO Manager application. The window has a title bar with the application name and standard Windows window controls. The main content area is titled 'Settings' and contains several configuration fields:

- Device Network Address:** 172.16.220.103
- Image Database Network Address:** 172.16.220.125
- Port:** 8586
- Image Database Username:** studymanager
- Password:** icatvision
- Image Database Folder:** C:\ProgramData\Dental Imaging Technologies Corporation\ImageRoot (with a 'Browse...' button)
- Viewer:** TxStudio (dropdown menu)
- Patient Data Entry:** Smart Scan STUDIO Manager (dropdown menu)
- Refresh Interval:** 15 seconds (with a spinner control)

At the bottom left of the window, there is a blue arrow button pointing left. At the bottom right, there are two 'Viewer' labels.

Installing Tx Studio

- Tx STUDIO should be loaded on all workstations where the site will be viewing 3D patient images.
- **NOTE:** Ensure there is an internet connection at the workstation to register and activate the software.
- Download Tx STUDIO from Website:
 1. Insert media in drive where downloaded files will be copied.
 2. Go to **www.anatomage.com**, then access **Dr. Login**. Contact Technical Support for username and password, and also for the authorization code for Tx STUDIO.
 3. Download latest Tx STUDIO installer.
 4. When download is complete, remove media. Follow steps below for installing Tx STUDIO.

Anatomage Anatomy Imaging Software

Home

Company

Product

Clinical

News

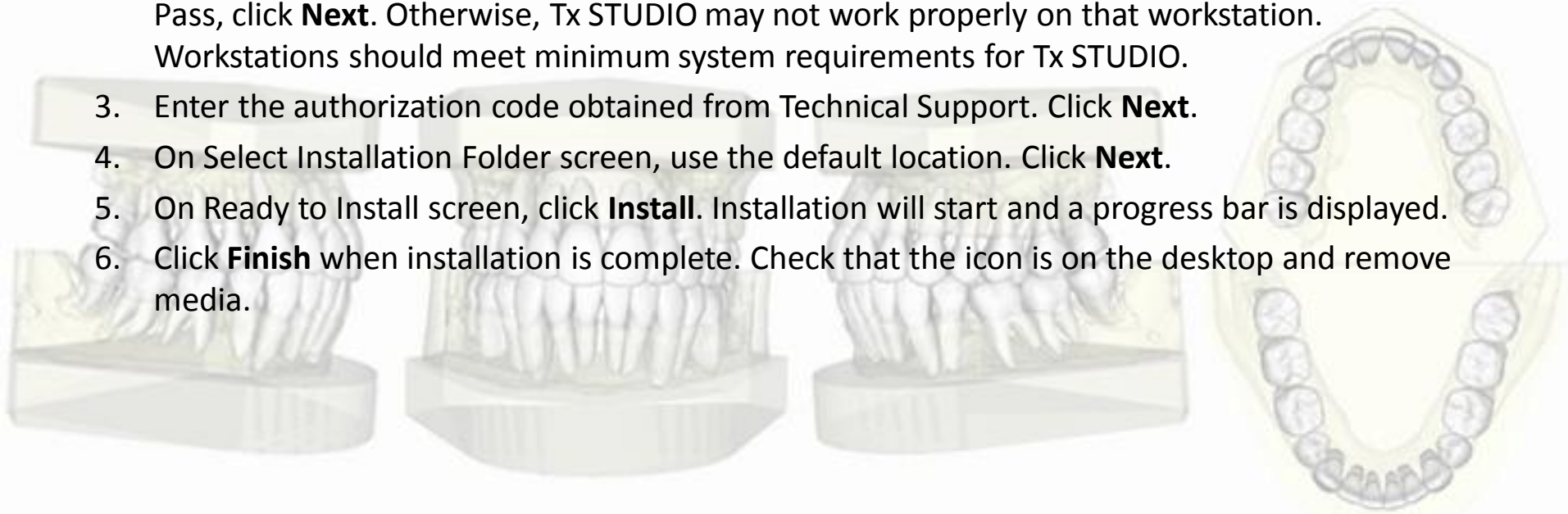
Dr. Login

Award-Winning Cone Beam 3-D Imaging System

i-CAT

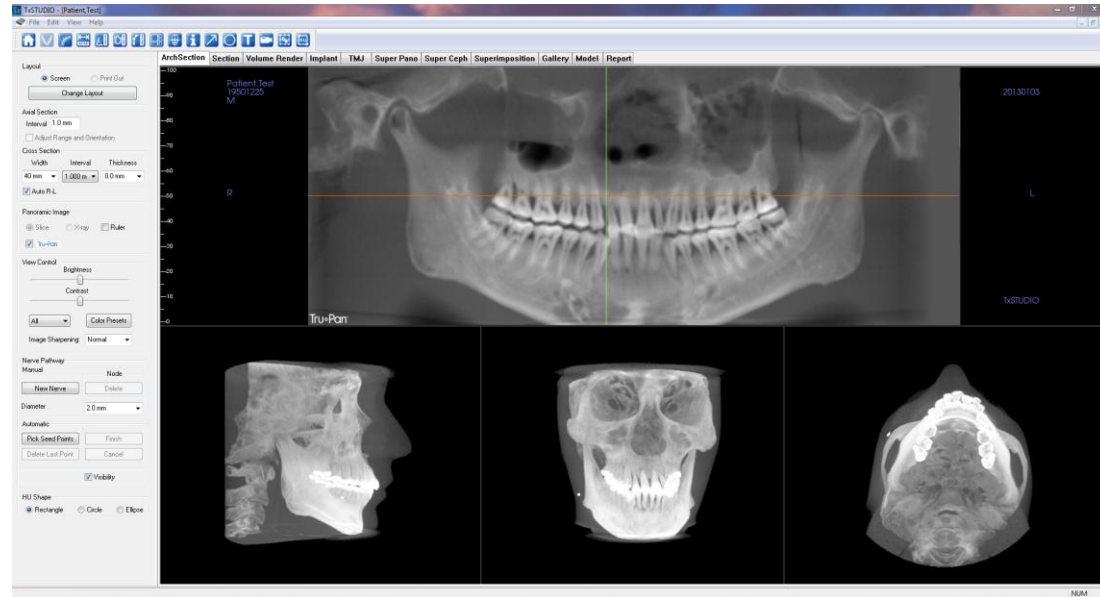
Install from Media:

1. At clinical workstation, insert media in drive. If the installer does not auto-run, navigate to the media drive and double-click the Tx STUDIO installer.
2. Tx STUDIO runs a check of the computer to look for required components. If all Results = Pass, click **Next**. Otherwise, Tx STUDIO may not work properly on that workstation. Workstations should meet minimum system requirements for Tx STUDIO.
3. Enter the authorization code obtained from Technical Support. Click **Next**.
4. On Select Installation Folder screen, use the default location. Click **Next**.
5. On Ready to Install screen, click **Install**. Installation will start and a progress bar is displayed.
6. Click **Finish** when installation is complete. Check that the icon is on the desktop and remove media.



Installation Check for a Standalone i-CAT FLX Installation

1. At clinical workstation, start SmartScan STUDIO Manager and enter data for a test patient.
2. At scanner controller, capture a scan for test patient.
3. At clinical workstation in SmartScan STUDIO Manager, locate test patient data.
4. View scan in Tx STUDIO.



New DEXIS – i-CAT FLX Installation

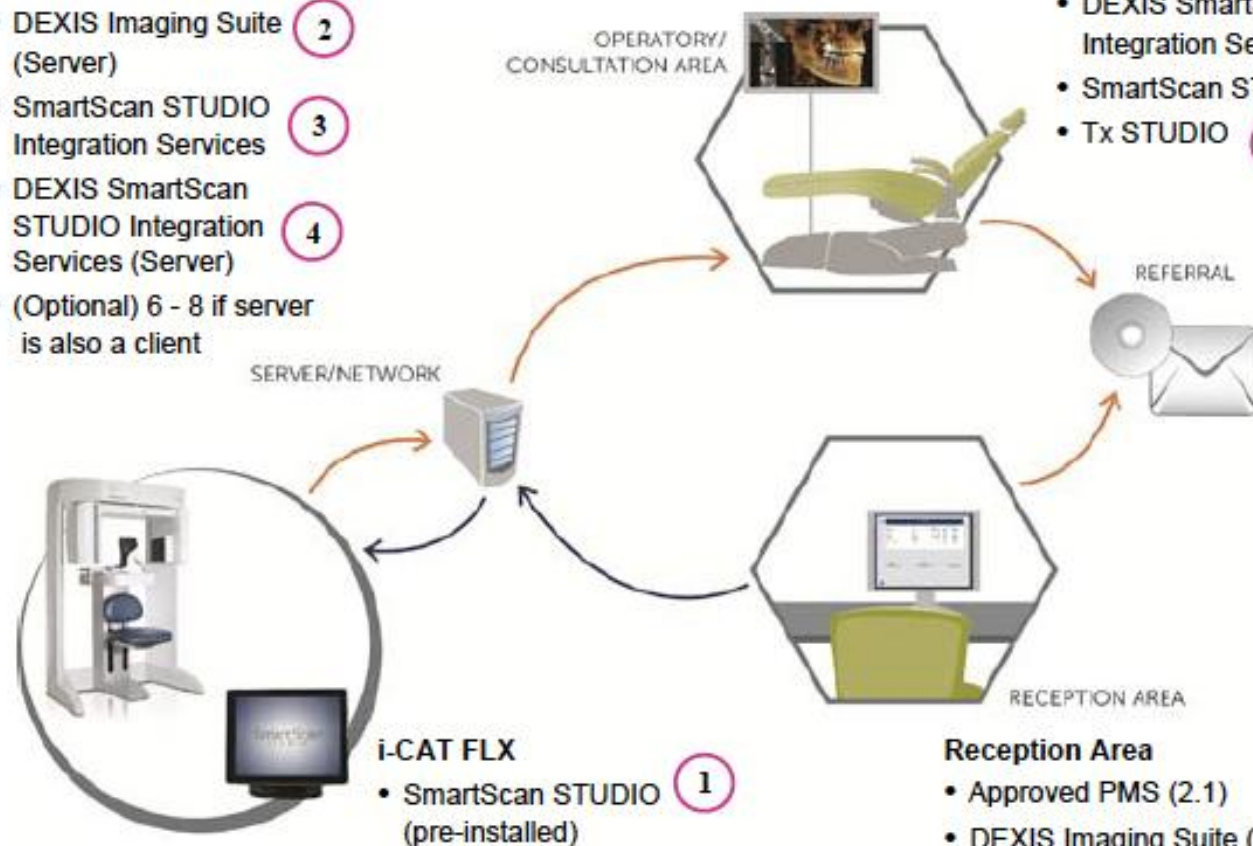
1. **Install i-CAT FLX**
2. **Install DEXIS Imaging Suite (Server)**
3. **Install SmartScan STUDIO Integration Services**
4. **Install DEXIS SmartScan STUDIO Integration Services (Server)**
5. **Install DEXIS Imaging Suite (Client)**
6. **Install DEXIS SmartScan STUDIO Integration Services (Client)**
7. **Install SmartScan STUDIO Manager**
8. **Install Tx STUDIO**

Site Provided Server

- DEXIS Imaging Suite (Server) (2)
- SmartScan STUDIO Integration Services (3)
- DEXIS SmartScan STUDIO Integration Services (Server) (4)
- (Optional) 6 - 8 if server is also a client

Operator/Consultation Room

- DEXIS Imaging Suite (Client) (5)
- DEXIS SmartScan STUDIO Integration Services (Client) (6)
- SmartScan STUDIO Manager (7)
- Tx STUDIO (8)



Reception Area

- Approved PMS (2.1)
- DEXIS Imaging Suite (Client) (5)
- DEXIS SmartScan STUDIO Integration Services (Client) (6)

Load DEXIS Imaging Suite for Server

- Install DEXIS Imaging Suite on all clinical workstations that will be using DEXIS with i-CAT. Refer to *DEXIS Imaging Suite Software Manual* for detailed installation instructions on loading DEXIS Imaging Suite.
- The DEXIS Imaging Suite DVD contains both server and workstation components of the software. You will be prompted during installation to select an installation type.
 - For clinical workstations that run DEXIS: select **Workstation** installation.

Load DEXIS SmartScan STUDIO Integration Services (Client)

- DEXIS SmartScan STUDIO Integrations Services DVD contains two components. The client component should be loaded on all clinical workstations that will be using DEXIS with i-CAT.

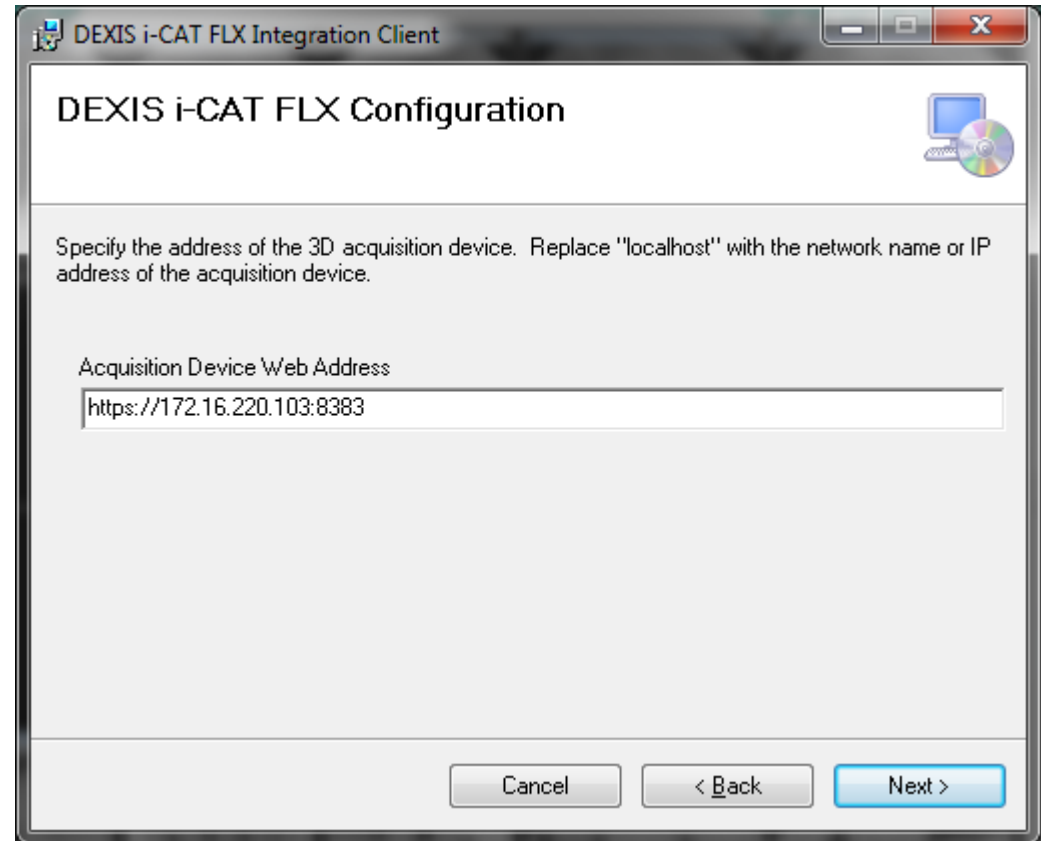
1. Ensure you have the IP address of i-CAT scanner controller that was obtained during the SmartScan STUDIO Integration Services loading procedure above.
2. Insert DVD in drive if not already installed.
3. On AutoPlay pop-up, select **Run dexmenu.exe**. If AutoPlay pop-up does not display, navigate to the DVD drive, right-click and select **Open AutoPlay**.
4. Select **Client Installation**.
5. Select **Install DEXIS i-CAT FLX**.
6. If the server does **not** have .NET Framework 4 installed, a Microsoft license screen is displayed. Click **Accept**. The required files are copied and Microsoft .NET Framework 4 is installed.
7. On Welcome screen, click **Next**.



8. On Configuration screen in the Acquisition Device Web Address field, replace **localhost** with the IP address noted in step 1.

- Do **not** overwrite **https://** or **:xxxx/** (4-digit port number) at the end of the address. Click **Next**.

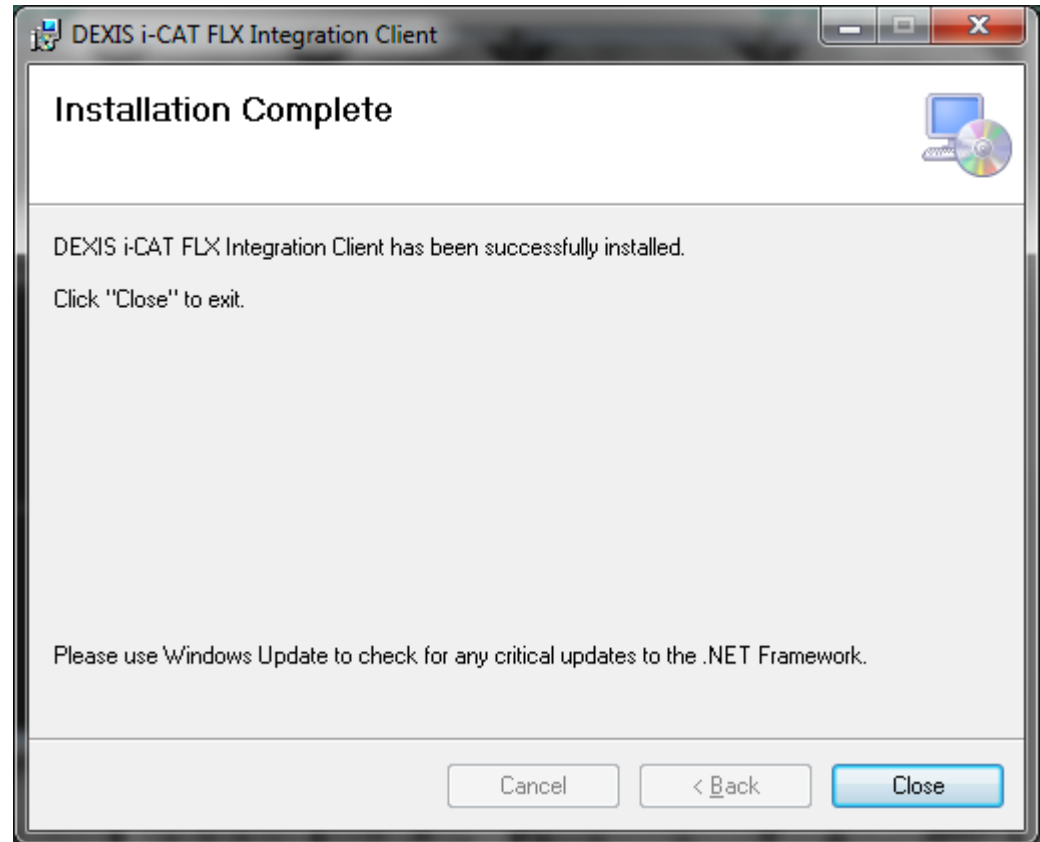
9. On Confirm Installation screen, click **Next**. Installation



Enter Image Root location

- A. For client workstations where there is a separate server: On Select Image Root pop-up, select ... (browse) button, then select **Network**. On the resulting list, double-click the long-term database server. If required, enter the Username and Password for the server. When access is gained, select the **ImageRoot** folder, then click **Select Folder**.
- B. For a server that is also a client: On Select Image Root window, select ... (browse) button and browse to **C:\ProgramData\Dental Imaging Technologies Corporation\ ImageRoot**. Click **OK**, then click **OK** again.

- When installation completes, click **Close** on the Installation Complete screen.
- On Client Installation screen, close the installation window.
- Remove DVD.



- *Load and Configure SmartScan STUDIO Manager Software*
 - SmartScan STUDIO Manager should be loaded on one workstation where QA test data will be viewed. It should only be loaded on **one** workstation at a site. Be sure to set the Patient Data Entry option to **DEXIS** on this workstation.
- *Load Tx STUDIO*
 - Tx STUDIO should be loaded on any workstation where the site will be viewing patient images.

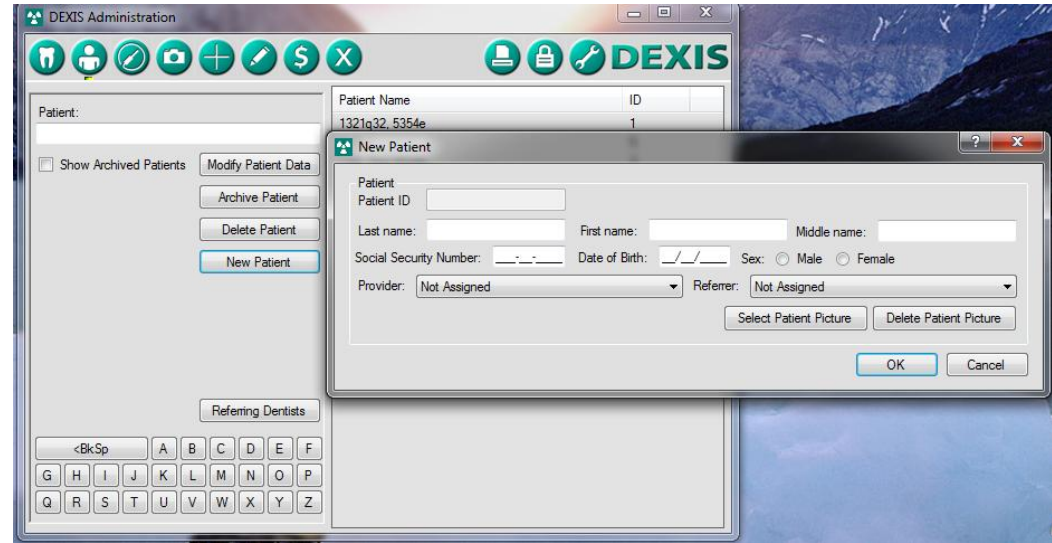
Installation Check for a DEXIS Installation



1. Start DEXIS Imaging Suite

- Double-click DEXIS icon.
- On initial launch, preference setting windows are displayed for Speciality, Practice Name, and Practice Phone Number. Ask site personnel to complete these preferences.

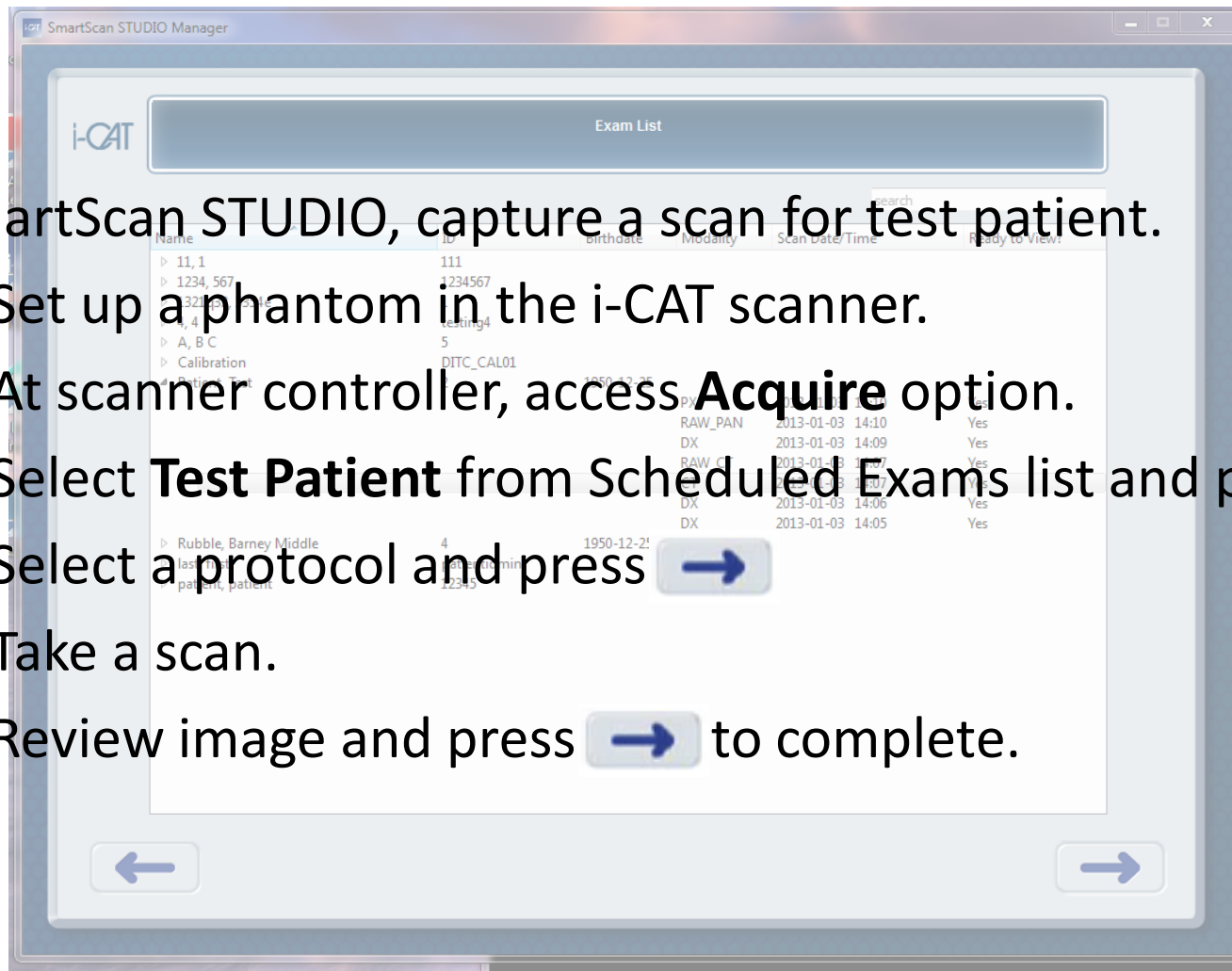
2. In DEXIS Imaging Suite, enter data for a test patient.

- Select **New Patient**.
- Enter data for the patient and exam. Example: Enter **Test** for Last Name and **Patient** for First Name.
- Select **OK**.

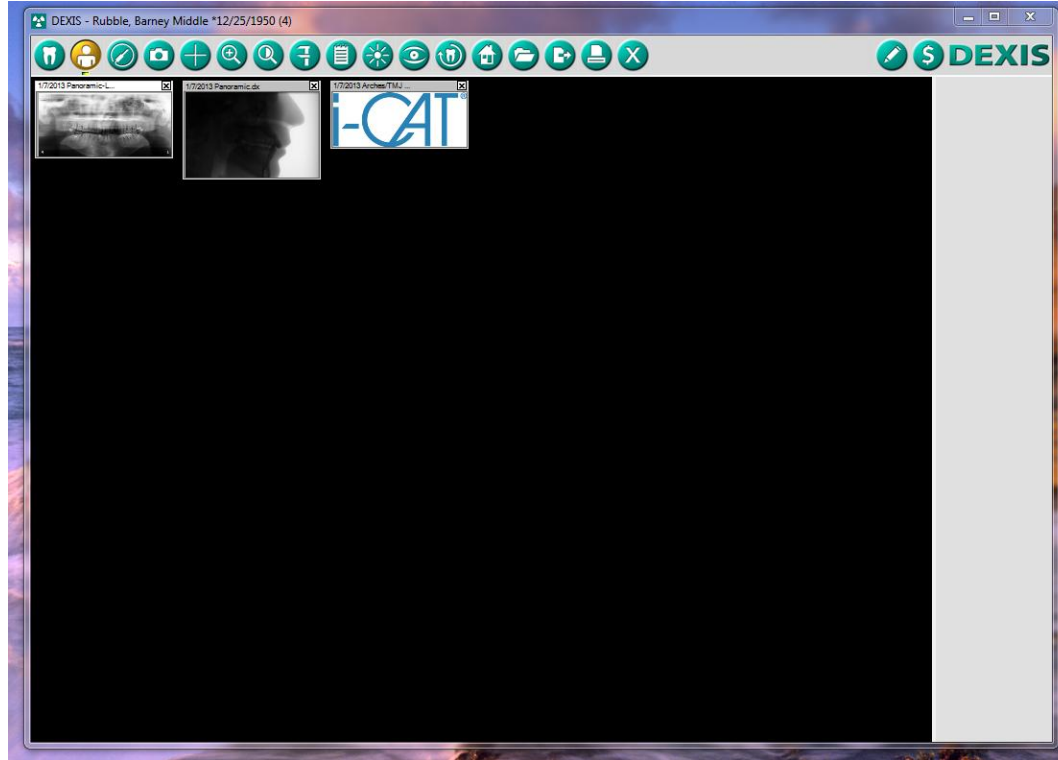


- d. Click  (Extra-oral) and click **I Accept** on disclaimer pop-up message.
- e. Click  Click **Later** on registration pop-up message. Or enter the registration code.
- f. A pop-up message displays that patient is scheduled for acquisition. Click **OK** to dismiss.

3. In SmartScan STUDIO, capture a scan for test patient.
- Set up a phantom in the i-CAT scanner.
 - At scanner controller, access **Acquire** option.
 - Select **Test Patient** from Scheduled Exams list and press →
 - Select a protocol and press →
 - Take a scan.
 - Review image and press → to complete.



4. In DEXIS Imaging Suite, locate Test Patient exam in Extra-oral display.



5. Double-click the i-CAT box to start Tx STUDIO and load exam.

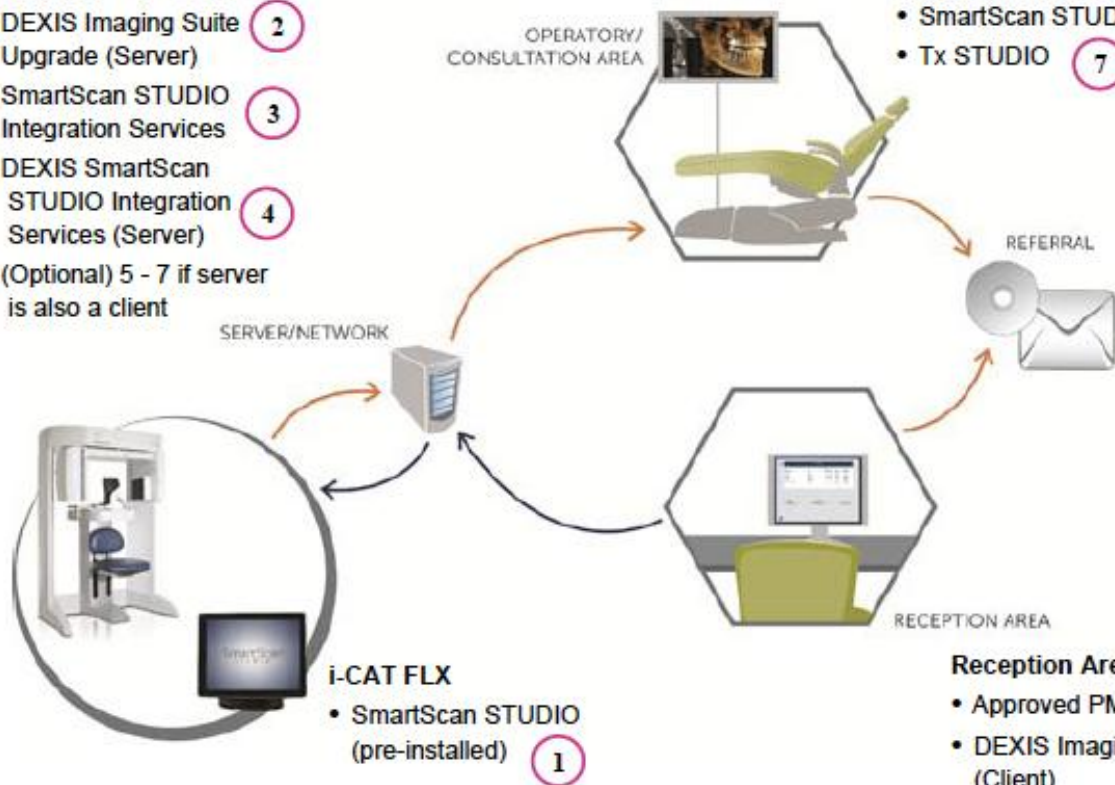
6. View scan in Tx STUDIO, by double clicking on the i-CAT thumbnail image.

Existing DEXIS – i-CAT FLX Installation

1. **Install i-CAT FLX**
2. **Upgrade site to latest DEXIS Imaging Suite (Server and Clients)**
3. **Install SmartScan STUDIO Integration Services**
4. **Install DEXIS SmartScan STUDIO Integration Services (Server)**
5. **Install DEXIS Imaging Suite (Client)**
6. **Install DEXIS SmartScan STUDIO Integration Services (Client)**
7. **Install SmartScan STUDIO Manager**
8. **Install Tx STUDIO**

Site Provided Server

- DEXIS Imaging Suite Upgrade (Server) (2)
- SmartScan STUDIO Integration Services (3)
- DEXIS SmartScan STUDIO Integration Services (Server) (4)
- (Optional) 5 - 7 if server is also a client



Operator/Consultation Room

- DEXIS Imaging Suite Upgrade (Client) (2)
- DEXIS SmartScan STUDIO Integration Services (Client) (5)
- SmartScan STUDIO Manager (6)
- Tx STUDIO (7)

Reception Area

- Approved PMS (2.1)
- DEXIS Imaging Suite Upgrade (Client) (2)
- DEXIS SmartScan STUDIO Integration Services (Client) (5)

Upgrade DEXIS Imaging Suite / Convert Image Database

- For current DEXIS sites that are running a version of DEXIS earlier than 10.0.4, install the latest version of DEXIS Imaging Suite on the server that is being used as the long-term data storage device and on all clinical workstations that are using DEXIS.
- The DEXIS Imaging Suite DVD contains both server and workstation components of the software. You will be prompted during installation to select an installation type.
 - For the server that functions as the long-term data storage device: select **Server and Workstation** installation.
 - For clinical workstations that run DEXIS: select **Workstation** installation.

- *Load and Configure SmartScan STUDIO Integration Services*
- *Load and Configure DEXIS - i-CAT Integration Services for Server*
- *Load and Configure DEXIS - i-CAT Integration Services for Client*
- *Load and Configure SmartScan STUDIO Manager Software*
- *Load Tx STUDIO*
- *Installation Check for a DEXIS Installation*