

Server Hardware

- Intel Quad Core microprocessor, 2.6+ GHz or better
- 4 GB RAM or better
- 25 GB available hard drive space; 50 GB or more recommended
- DVD or CD drive (installation media)
- Backup hardware and software. Recommended daily backups of CNE_xT databases

Note: A dedicated server is *not* required and may be virtualized. No requirements for monitor, keyboard, and other peripherals

Server Software

- Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2
- SQL Server 2005(through April 16, 2016), SQL Server 2008, SQL Server 2008 R2, SQL Server 2012, SQL Server 2014 (for CNE_xT with SQL and for CAS)
- Web access to C/NET Solutions Secure Server for updates

Workstation Hardware

- Recent Intel Xeon or Core 2 Duo microprocessor, or better (equivalents, such as from AMD, are also acceptable)
- 10 GB available hard drive space or more
- DVD or CD drive (installation media)
- Video card and monitor capable of displaying 1024 x 768, 32 bit color or better
- Network access to server and web access to C/NET Solutions Secure Server for updates
- Windows compatible printer
- Reliable backup method strongly recommended

Workstation Software

- Windows 7, Windows 8, Windows 8.1 – Professional or Enterprise editions, Windows 10
- Microsoft Office 2007, or later, Professional Edition (to include Access)
- Internet Explorer 11 or later; FireFox 3.7 or later (for technical support and transmitting cases electronically: internet, FTP, and email access)
- Email client recommended
- Winzip or equivalent application

Note: For management of SQL Server, install Microsoft SQL Server Client utilities (with appropriate users and permissions granted on all product databases - CNE_xT with SQL and CAS)



Cancer Alert System (CAS) Requirements

Below is a listing of the items you will need to host the Cancer Alert System (CAS) automated casefinding system at your facility to send potential cases into CNE_xT. The Cancer Alert System (CAS) can currently receive HL7 message feeds of BAR, ADT, or ORU messages from multiple departments such as pathology, hospital admit/discharge (BAR preferred), radiation oncology and radiology imaging.

CAS Listener Workstation

<ul style="list-style-type: none">• Intel Dual Core (i3, etc.) or Xeon CPU or better, 1.2GHz or better, 1 GB RAM or more * * (equivalent processors, such as those from AMD, may also work, but have not been tested)
<ul style="list-style-type: none">• 200 mb available hard drive space
<ul style="list-style-type: none">• Windows 7, Windows 8, Windows 8.1 Windows Server 2003 R2, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2
<ul style="list-style-type: none">• DVD or CD drive (optional installation media)
<ul style="list-style-type: none">• Backup hardware and software (recommended daily backups of CAS database)
<ul style="list-style-type: none">• Fixed IP address for HL7 router
<ul style="list-style-type: none">• Video card and monitor capable of displaying 800 x 600 or better
<ul style="list-style-type: none">• Physical location recommended in IT or in the Cancer Registry office

Note: Must be on 24/7 to receive and queue messages. User does not have to be logged on. A dedicated workstation or server is not required and may be virtualized.

CAS MessageQ Database

<ul style="list-style-type: none">• MS SQL Server 2005, SQL Server 2008, SQL Server 2008 R2, SQL Server 2012, (SQL Server 2014 *not yet tested)
<ul style="list-style-type: none">• Server need not be dedicated to CAS
<ul style="list-style-type: none">• 15 GB available hard drive space for database and log files
<ul style="list-style-type: none">• SQL Server need not contain the CNE_xT databases also, but it can
<ul style="list-style-type: none">• SQL Server need not be on the CAS Workstation, but it can be
<ul style="list-style-type: none">• Backup hardware and software (recommended daily backups of CAS databases)

Note: Must be on 24/7 to record messages. Server may be virtualized. The CAS Workstation must be able to access the SQL Server machine for CAS (MessageQ) database and the SQL Server machine for the CNE_xT databases (if a different SQL Server).

BAR or ADT Message Requirements

<ul style="list-style-type: none">• Messages in HL7 format 2.1 or higher
<ul style="list-style-type: none">• BAR^P01 or ADT^A08 message type/trigger event (BAR preferred)
<ul style="list-style-type: none">• Messages must contain a facility wide unique identifier (called Medical Record in the CNEXT case database) for matching messages to the CNEXT database
<ul style="list-style-type: none">• MSH-9.1, MSH-9.2, MessageType and TriggerEvent fields must be filled with legitimate values
<ul style="list-style-type: none">• MSH-10, MessageControlID fields must be filled with legitimate values
<ul style="list-style-type: none">• At least one DG1-3.1, DiagnosisCode, field MUST be present and filled with a valid ICD-9 or ICD-10 diagnosis code for determining if the message is or is not cancer related; (multiple DG1 segments, therefore multiple diagnosis codes, are allowed)
<ul style="list-style-type: none">• A DG1 field must be filled with values to indicate ICD coding system (ICD-9 or ICD-10)

ORU Message Requirements

<ul style="list-style-type: none">• Messages in HL7 format 2.1 or higher
<ul style="list-style-type: none">• ORU^R01 message type
<ul style="list-style-type: none">• Messages must contain a facility wide unique identifier (called Medical Record in the CNEXT case database) for matching messages to the CNEXT database
<ul style="list-style-type: none">• MSH-9.1, MSH-9.2, MessageType and TriggerEvent fields must be filled with legitimate values
<ul style="list-style-type: none">• MSH-10, MessageControlID fields must be filled with legitimate values
<ul style="list-style-type: none">• At least one OBX-5, ObservationValue, field MUST be present and contain legitimate text that the software can evaluate for cancer; (multiple OBX segments are allowed)