

Server Hardware

- Core i7 or better
- App Server - 8 GB RAM Minimum, 16 GB RAM or more recommended
- SQL Server - 8 GB RAM for databases up to 30,000 cases, 16 GB RAM for databases up to 100,000 cases, 32 GB RAM for databases up to 200,000 cases. 64 GB RAM for database over 200,000 cases.
- 100 GB **available** hard drive space; 1 TB or more recommended (more than 50,000 cases)
 - (this means FREE space, not the total hard drive size)
- Fixed IP address for HL7 router (CAS service hosts only)
- Backup hardware and software. Daily backups of CNE_xT/CAS databases recommended

Note: A dedicated server is *not* required and may be virtualized. No requirements for monitor, keyboard, and other peripherals. CAS servers must be on 24/7 to record messages. CAS services must be able to access a CNE_xT database server if the databases are hosted on separate machines.

Server Software

- Windows Server 2016 through 2022
- SQL Server 2016 – 2022 (TDS 8.0 not supported for SQL 2022)
- Backup hardware and software (recommended daily backups of CNE_xT/CAS databases)
- Web access to C/NET Solutions Collaboration Site for Software Downloads

Note: A dedicated SQL Server instance is not required for CNE_xT or CAS. The same database server may be used for both CNE_xT and CAS databases.

Workstation Hardware

- Core i5 or better (However, i7 or better is recommended)
- 8 GB RAM minimum, 16 GB RAM recommended.
- 25 GB **available** hard drive
- Windows compatible printer

Workstation Software

- Windows 10 or 11
- Microsoft Office 2016, or later, Professional Edition (to include Word, Excel, and Access) (Installed on the workstation CNE_xT is installed on, online versions are not acceptable)
- Web access using a supported browser
- Email client
- WinZip or equivalent application

Note: For management of SQL Server, Microsoft SQL Server Client utilities (with appropriate users and permissions granted on all product databases) are recommended.

Latency

To ensure that CNE_xT works properly, your connection needs to be reliable and constant. If you are accessing CNE_xT remotely you need a high-speed internet connection that is stable. The further the databases are from the CNE_xT installation the higher the risk of network instability and connectivity issues.

The Cancer Alert System (CAS) automated case finding system at your facility will send potential cases into CNE_xT. CAS can currently receive HL7 message feeds of BAR, ADT, and/or ORU messages from multiple departments such as pathology, hospital admit/discharge (BAR preferred), radiation oncology and imaging.

BAR or ADT Message Requirements

- Messages in HL7 format 2.1 or higher
- BAR^P01 or ADT^A08 message type/trigger event (BAR preferred)
- Messages must contain a facility wide unique identifier (called Medical Record in the CNE_xT case database) for matching messages to the CNE_xT database
- MSH-9.1, MSH-9.2, MessageType and TriggerEvent fields must be filled with legitimate values
- MSH-10, MessageControlID fields must be filled with legitimate values
- 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)
- A DG1 field must be filled with values to indicate ICD coding system (ICD-9 or ICD-10)

ORU Message Requirements

- Messages in HL7 format 2.1 or higher
- ORU^R01 message type
- Messages must contain a facility wide unique identifier (called Medical Record in the CNE_xT case database) for matching messages to the CNE_xT database
- MSH-9.1, MSH-9.2, MessageType and TriggerEvent fields must be filled with legitimate values
- MSH-10, MessageControlID fields must be filled with legitimate values
- 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)

Anti-Virus Exclusions

To ensure the smooth, efficient operation of CNE_xT\CAS, we recommend the following items be excluded from anti-virus/anti-malware scanning:

- cnext.ini, cas.ini, casclient.ini (text-based configuration file)
- *.HL7 files (HL7-encoded text files)
- *.CnetDD, *.CnetData (MS-Access-based database files)
- *.mdf, *.ldf (SQL Server based database files)