

# T-Data/T-Reporting

In every Emergency Department (ED), efficiency is a critical part of quality care. Using T SystemEV, you can improve workflow and reduce errors with the leading ED Information System (EDIS). Now T-System is taking quality and efficiency to a new level by offering T-Data and T-Reporting. With T-Data, you'll have access to data that helps you identify potential areas of risk related to clinical outcomes, pinpoint factors impeding patient workflow, and review quality and reporting data quickly and easily. When you add T-Reporting, access to T-Data becomes even easier by eliminating the need to know SQL and to understand database schemas.

Don't rely solely on gut instincts and experience to improve the performance of your ED. With T-Data and T-Reporting, you'll have access to over 500,000 unique data elements that will give you the insight you need to improve the quality, consistency and efficiency of care in your ED more than ever before.

## T-Data

With T-Data, the information collected in T SystemEV is more readily accessible and usable for our customers. Data is accessed by developing SQL queries against the database, or by using or modifying sample queries provided by T-System. The data dictionary, schema, sample SQL queries, and a TEV graphical reference are also included.

Released in June 2009, T-Data 1.0 enables a wide variety of ED stakeholders to critically examine the care that is provided in the ED. Since each user can design database queries to meet their specific needs, T-Data can be used to:

- Provide the Medical Director with clinical outcomes data in a format that allows rapid identification of potential areas of risk
- Support the ED Administrator with detailed information about patient throughput to easily identify factors impeding smooth patient flow
- Provide Hospital Administrators with efficient quality and regulatory reporting without expensive manual chart reviews

While T-Data 1.0 only contains data from exported patient visits, T-Data 1.1, expected to be released by the end of 2009, will include data from patient visits even before the records are complete. T-Data is a SQL database derived from data in the T SystemEV database. T-Data requires minimal IT resources to support corporate data warehouse needs, but does require a working knowledge of SQL.

## What T SystemEV® data is included in the T-Data database?

T-Data 1.0 contains data elements from all components of T SystemEV, including:

- Marks from physician & nurse templates
- Tracking board
- CPOE, if applicable
- Medications and allergies
- Visit and demographic information
- User information
- Referral physician information

## How is the T-Data database created and updated?

The T-Data 1.0 software is installed on a dedicated server at the facility and updates the T-Data 1.0 database after each encounter is completed using an extract, transform, and load (ETL) process. Historical visits created using 704 through 906 versions of content will also be included in the T-Data 1.0 database.

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## What are the hardware & software requirements?

T-Data is compatible with T SystemEV versions 2.6.2.6 and 2.6.3.2, and will extract content 704 through 906. T-Data 1.1 will support T SystemEV version 2.7. A dedicated SQL 2005 server or a dedicated virtual environment is required.

A complete description of the prerequisites, requirements, and capacity planning recommendations can be found below.

## What is the cost?

There are no additional licensing fees associated with T-Data, but an additional business associate agreement and license addendum are required.

# T-Reporting

T-Reporting 1.0, expected to be released by the end of 2009, will leverage Microsoft SQL Server Reporting Services software that is included free of charge with SQL Server 2005. Users will be able to access T-Data without requiring SQL skills or understanding of database schemas. This is ideal for hospitals with limited data resources.

## What types of reports are available with T-Reporting?

T-Reporting will offer reporting and data analysis solutions in the areas of:

- Reimbursement
- Regulatory Compliance
- Risk Management
- Process Improvement
- Clinical Practice

# General Prerequisites & Requirements

- T-Data 1.0 must be installed on a dedicated server
- The T-Data 1.0 server must have a dedicated instance of Microsoft SQL Server 2005, Standard or Enterprise Edition, SP 3, and SQL Server Integration Services installed, and be ready for database restoration
- Each physical TEV installation must have a dedicated T-Data 1.0 server (multiple sites can share one T-Data server only if they share the same physical TEV installation)
- The Microsoft SQL Server 2005 instance used for T-Data 1.0 must be configured for remote access
- Site administrators must configure a T-System administrator login for Microsoft SQL Server 2005 (member of the sysadmin server role), for installation, maintenance, and support needs
- Site administrators must comply with all requirements for site preparation and configuration to allow T-Data 1.0 to function as designed

- 5GB (net) per 100K visits on a separate RAID1 or RAID5 array Indexes
- 10GB per 100K visits, per backup

### High-end (SAN)

- 5GB (net) per 100K visits on a RAID1 array Staging, EXEs
- 5GB (net) per 100K visits on a RAID5 array Data
- 5GB (net) per 100K visits on a second RAID5 array Indexes
- 1GB (net) per 100K visits on a second RAID1 array Transaction logs
- 10GB per 100K visits, per backup

## T-Data 1.0 Hardware and Software Requirements

### T-Data 1.0 storage sizing guidelines, per 100K visits

If you have questions regarding any of the following storage sizing options, please contact your T-System account manager.

#### Minimum

- 16GB (net) per 100K visits on a RAID1 or RAID5 array All except backups
- 10GB per 100K visits, per backup

#### Mid-level (SAN)

- 11GB (net) per 100K visits on a RAID1 or RAID5 array Staging, EXEs, transaction logs, data

## T-Data 1.0 software requirements

- Microsoft Windows 2003 Server R2 (32-bit) – SP 2
- SQL Server 2005 Standard Edition (32-bit) – SP 3 (T-Data 1.0 is compatible with Enterprise Edition)
- SQL Server Integration Services (SSIS)
- TEV 2.6.2.6 (latest hot-fix level) OR TEV 2.6.3.2 (latest hot-fix level)
- TEV Clinical Content 704 - 906
- .NET Framework 2.0 or higher
- T-System Framework 1.0

## T-Data 1.0 hardware minimums and recommendations

- Dedicated server to host T-Data 1.0
- Minimum 4 CPU cores, 8 or more CPU cores recommended (2.0 GHz or above)
- Minimum 4 GB RAM, 8 or more GB RAM recommended