



July 14, 2009 Edition

Hello South Carolina EMS,

Welcome to the SC EMS Data Dashboard. This bi-monthly email update is coming to you from the SC Division of EMS and Trauma and the EMS Performance Improvement Center (EMSPIC).

This information is also available at www.SCEMSData.org

NOW AVAILABLE – PreMIS Short and Long Patient Handoff Forms

We are pleased to announce the new **PreMIS Short and Long Patient Handoff Forms**. These new forms serve as a tool for recording event and patient information. The [Short Form](#) may be signed at the destination facility with a copy being left at the location. The [Long Form](#) may be used in the same way, or as a training tool to ensure important fields are frequently recorded.

Both forms will allow PreMIS Web Application Users to record the required events needed for manual entry.

[Click Here](#) to view the new forms!

NEW TRAINING DATES – Last PreMIS Training Sessions Announced!

Final Training Offered for SC EMS Data Enrollment

Midlands Regional Office — August 13-14th, 2009

Midlands Regional Office
3201 Leaphart Road
West Columbia, SC 29169
Telephone: (803) 794-3940
Fax: (803) 794-3941

SC Division of EMS and Trauma in cooperation with the EMS Performance Improvement Center (EMSPIC) and Midlands Regional EMS will hold the **SC Electronic EMS Data EMSPIC Regional Training at the Midlands Regional Office August 13-14th, 2009.**

An evening session will be held on August 13th from 6:00pm to 10:00pm, a daytime session will be held on August 14th from 10:00am to 2:00pm. The same content will be repeated in these two sessions. Rollout sessions are scheduled on two consecutive days, repeated in an evening and daytime forum to meet the needs of SC EMS providers.

Please review the meeting agenda below, and on the SC EMS Data System website at www.scemsdata.org. Details of the meeting, agenda, time, and driving directions are linked to this web site.

What SC EMS Agencies Should Attend?

This meeting is designed to provide Hands-On Configuration and Training for the Credentialing Information System (CIS), PreHospital Medical Information System (PreMIS), and State Medical Asset Resource Tracking Tool (SMARTT). Go to www.scemsdata.org for detailed information about these EMS applications.

Each attending EMS provider must bring the following items:

- 1 - A laptop computer with wireless capability.**
- 2 - Completed SC EMS Data System Enrollment Packet – All items on the Page 1 Checklist:**

The Enrollment Packet can be found on www.scemsdata.org
Unsure of your enrollment status? - Please contact Matt Gawthrop at 1-866-773-6477

Which EMS Personnel Should Attend? What Can We Expect At Training?

Two EMS Personnel per agency are recommended to attend. The EMS System Administrator, IT Director, and/or Training Director are recommended as two of the slots per agency. This training event will be informative, relaxed, and certain to benefit the South Carolina EMS community and citizens as a whole. We invite all to provide comments, questions, and feedback concerning the SC Electronic EMS Data System. Staff members from DHEC EMS/Trauma, EMSPIC and Midlands EMS will be on hand to provide support. In addition, food and refreshments will be provided. **Call Abby for questions and to register at 1-866-773-6477 right away!**

What if I Have a Detailed Question About this Training or Sending Electronic EMS Data?

Call Matt Gawthrop or Cindy Raisor at the EMS Performance Improvement Center, 1-866-773-6477. Or contact by email at craisor@emspic.org or mgawthrop@emspic.org. All and any questions are encouraged.

The SC Electronic EMS Data System is here; All SC EMS agencies must submit electronic EMS data by December 31, 2009. This following agenda is very general and informal for a reason. We want to make this training session for the Credentialing Information System (CIS), PreHospital Medical Information System (PreMIS), and State Medical Asset Resource Tracking Tool (SMARTT) as comfortable and stress free as possible. The agenda may need to be shortened or lengthened to make sure everyone has time to ask questions and feel comfortable with the process. If you would like more information about these CIS, PreMIS and SMARTT go to www.scemsdata.org.

The success of this training session will be based on everyone's participation and willingness to ask questions and take ownership in the system. Go to www.scemsdata.org for a detailed agenda and other important information.

Training Session Agenda: August 13th 2009 - 6:00pm to 10:00pm

6:00-6:30	Food & Refreshments (provided)
6:30-7:00	Introduction to CIS with Hands-On Configuration and Training
7:00-8:00	Introduction to PreMIS with Hands-On Configuration and Training
8:00-8:15	Break
8:15-9:30	Introduction to SMARTT with Hands-On Configuration and Training
9:30-10:00	Wrap-Up and Adjourn

Training Session Agenda: August 14th 2009 - 10:00am to 2:00pm

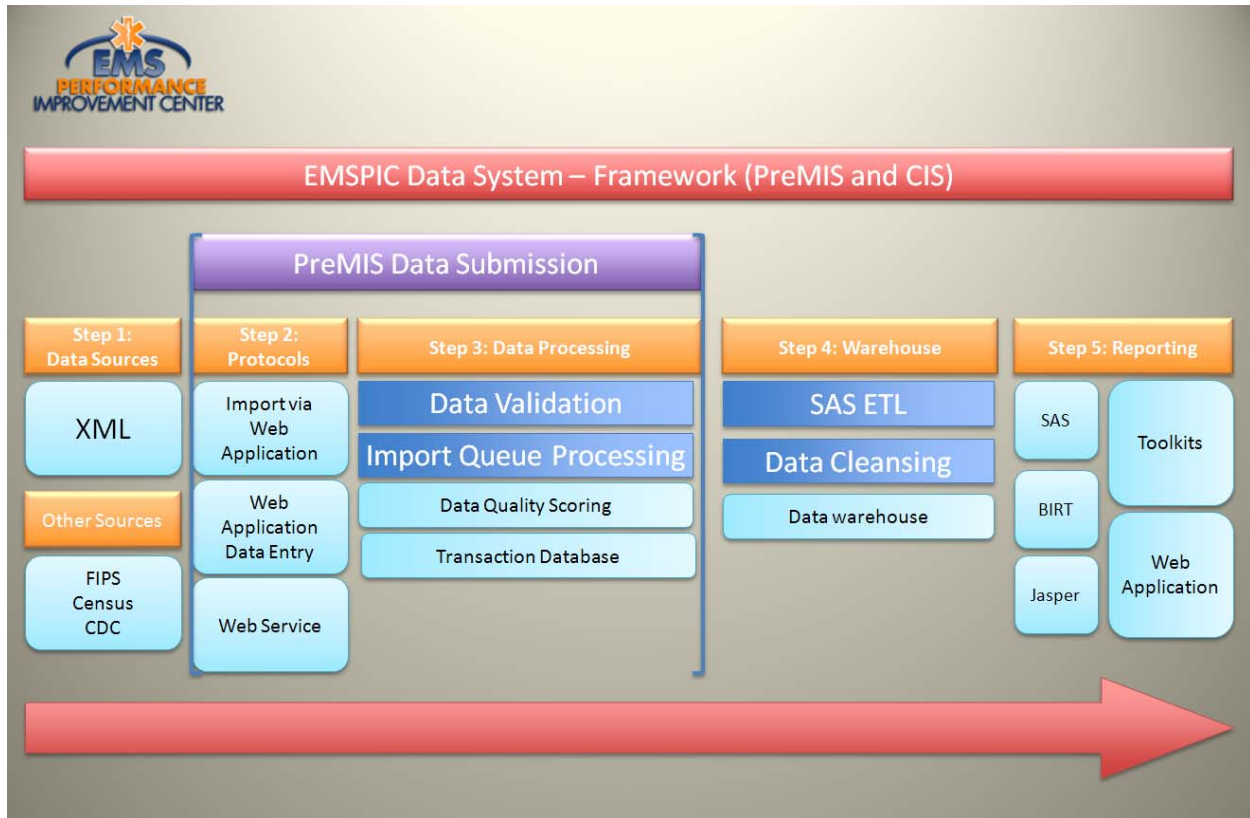
10:00-10:30	Overview of the SC EMS Data System
10:30-11:00	Introduction to CIS with Hands-On Configuration and Training
11:00-12:00	Introduction to PreMIS with Hands-On Configuration and Training
12:00-1:00	Lunch (provided)
1:00-1:30	Introduction to SMARTT with Hands-On Configuration and Training
1:30-2:00	Wrap-Up and Adjourn

Detailed information on Training Sessions available at www.SCEMSData.org

SC EMS Data System Framework: How does the Data System work?

You may be wondering, *"What happens to our data after we submit to the Data System?"* – Very good question! The chart below illustrates the Data System Framework and steps taken during EMS Data Processing.

Each step definition (below the image) explains how your data moves through the system!



EMSPIC Data System – Framework Definitions

Step 1: Data Sources: Defining PreMIS (PreHospital Medical Information System)

NEMSIS NHTSA Dataset Version 2.2.1 is the current standard for EMS Data collection and submission. The NHTSA Dataset Version 2.2.1 is made of XML Schema Definitions. The schema definitions are made of XSD files, with over 400 data elements that are defined to allow standardized data exchange between EMS data systems.

Other data sources used within PreMIS include FIPS (Federal Information Processing Standards), Census, and CDC data.

Step 2: Data Submission into PreMIS

Currently, the following methods are used to submit data into PreMIS:

- Import via the web application
- A defined web services protocol
- Web application data entry

Importing data via the web application upload servlet or via web services must be provided in the NHTSA Dataset Version 2.2.1 xml file format. The PreMIS web application is a secured online j2ee application ran in a clustered environment. The user must input data through a screen-by-screen web interface. This automatically saves all data to the transactional database.

Step 3: Data Processing

The PreMIS Web Application allows data to be written to the transaction database in real-time. Therefore, all data processing is handled while the data is entered. There are many business logic checks to ensure quality data.

Importing data via the PreMIS web application upload servlet or through web services, an import queue handling is implemented. The xml file is first validated to check its compliance to the NHTSA Dataset Version 2.2.1 schema. If the file passes validation it will be moved to the import-processing queue. Here, all information will be scored for data quality and written to the transaction database. The user will then have the ability to view their import logs which shows in detail the Patient Care Reports (PCR) that were add, updated or that may have failed, along with the time of completion. The user can also view the imported PCR to check the data quality scores for each PCR.

Step 4: ETL to the Data Warehouse

A nightly ETL (Extract, Transform, Load) process is used to cleanse the transactional data and populate the data warehouse. The data warehouse is used to store normalized data for reports generation. The nightly SAS ETL process is a wipe and load, so all data is refreshed nightly. The ETL process is also used to export data to several other State Agencies, including public health for syndromic surveillance.

Step 5: Reporting

PreMIS currently contains three types of reporting engines, SAS, BIRT, and Jasper. All of the reports are available through CIS (Credentialing Information System), and are secured based on the user's role. These reports are real time and can be viewed in the browser or downloaded to a PDF document. Ad-hoc custom reports can be added at any time.

Another form reporting is the EMS Performance Improvement Toolkits:

The EMS Toolkits are a web-based reporting system focusing on specific patient care areas within EMS. The goal of each EMS Toolkit is to apply knowledge, data, and experience to evaluate and improve EMS service delivery, personnel performance, and clinical care.

A special emphasis is placed on assisting local and state EMS agencies regardless of their knowledge or expertise in performance improvement. Suggestions for improvements (interventions) are generated based on the EMS Toolkit results. Each EMS Toolkit is designed to measure and adjust performance over time. EMS Toolkit areas of analysis include the following:

- * EMS System Response
- * EMS Trauma Care
- * EMS Cardiac Arrest Care
- * EMS Acute Cardiac Care (STEMI)
- * EMS Acute Stroke Care
- * EMS Acute Pediatric Care

Free Online 12-Lead ECG Training

The EMS Performance Improvement Center has licensed Tim Phalen's Online 12 Lead ECG Interpretation Course for all EMT-Paramedics in South Carolina. It is free to Paramedics and our goal is for every Paramedic who is actively caring for patients to complete this course by the end of 2009. You will receive 5 hours of CME upon completion of the course. [Click Here](#) for access to the course!

SC EMS Data System Enrollment Update: Turning SC Green

Check out the exciting progress of SC EMS agencies enrolling in the SC EMS Data system. [Click here](#) to see the SC EMS Data System Implementation Map. Watch South Carolina turn green as EMS agencies are trained, enrolled, and begin submitting data into the SC EMS Data project.

SC EMS Data System Summary: 7/14/2009	
Total SC EMS Agencies**	209
Total EMS Agencies who have received training	150 (72%)
Total Enrolled in the EMS Data System	133 (64%)
Total Active and Submitting Data	39 (19%)
**Represents total EMS agencies required to be using the SC EMS Data System by December 31, 2009. This number excludes credentialed EMS First Responder Agencies, as their deadline for electronic submission is December 31, 2010.	

Important Data Submission Deadlines

There are 195 days until 2010. Don't wait until the last minute. All licensed SC EMS Agencies must be collecting and submitting data electronically into the SC EMS Data System by December 31, 2009. Learn about the SC EMS Data System and how your EMS Agency can begin participating through the [Frequently Asked Questions](#).

Take the first step and [Click here](#) to complete the Enrollment Packet.