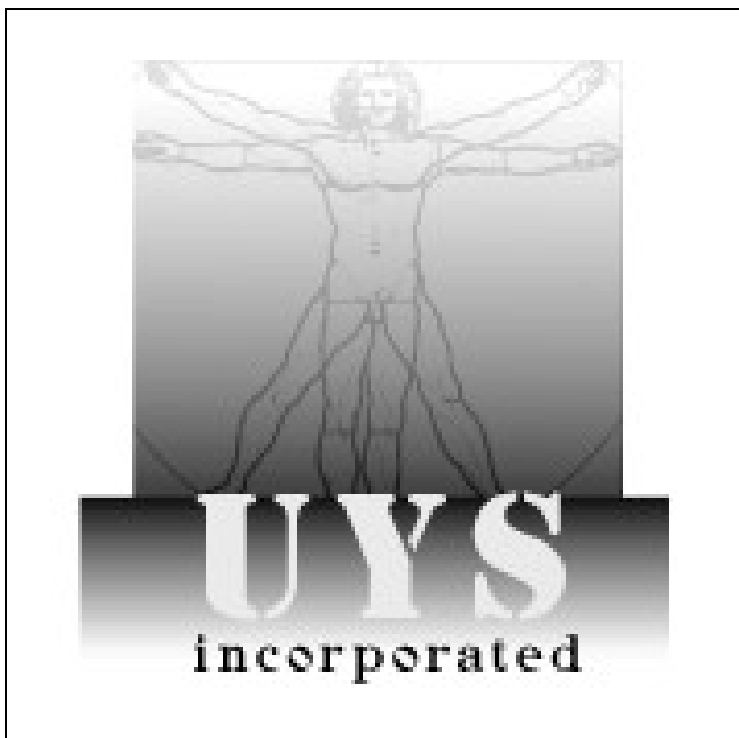


Personal Order Set (POS) Maintenance Tool



12460 Crabapple Road
Suite 202, #321
Alpharetta, GA 30004
(770) 619-2294

www.uysinc.com

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Personal Order Set (POS) Maintenance Tool

Objective

To provide a comprehensive tool to be used in maintaining and controlling the Personal Order Set (POS) feature of the *Eclipsys Series 7000*TM clinical information system that decreases costs by automating maintenance functions and improves customer (end user) satisfaction by improving IT responsiveness.

Background

The Personal Order Set (POS) function allows a set of predefined orders to be associated with an individual physician, medical group, medical service or department. A user selects a POS to enter an order or a series of orders for a patient rather than compose each order by going through the individual ordering pathways. Each POS can be tailored to meet the specific needs of specialty areas, physicians, nurses and other clinicians responsible for order entry. Unlike Department Order Sets that must be created and maintained by the analysts, physicians can be provided the functionality to create and maintain POS. Once created, these sets allow physicians or their agents to simplify the order entry process for commonly requested sets of orders. Creation of a POS creates a pseudo-patient in *Series 7000*TM and this pseudo-patient's name becomes the name of the POS.

Problem

Use of Personal Order Sets is undeniably a very powerful tool that can have a significant positive impact on customer (user) satisfaction, streamlining the order entry process and decreasing turn around of order communications. Inevitably medication formulary items change, laboratory tests are modified and all of the services and procedures at every enterprise eventually evolve. This evolution requires that the personal order sets be modified to reflect the changing practices and procedures of the enterprise. In addition to this ongoing maintenance, most facilities have orders that by policy are not permitted in order sets. These orders may include expensive medications, expensive laboratory tests, experimental or research items or items that require the patient to meet stringent criteria before they are eligible for use. Since placing such "restricted" items into order sets encourages their use, policing order sets becomes a very time consuming priority to effectively reflect the enterprise's ordering policies.

The investment in resources for manually maintaining and policing the order sets required by the Information Systems department may be prohibitive factor in introducing the Personal Order Set feature. The POS Maintenance Tool permits facilities to take advantage of the POS functions at a fraction of the maintenance investment (in terms of analyst time and productivity) historically required to support this feature.

Solution

The UYS Personal Order Set Maintenance Tool replaces the need for the Information Systems Analysts to manually monitor and update each order set by providing a comprehensive tool that empowers analysts to make changes to all the order sets and orders within the sets with a single request. So, for example, replacing a particular laboratory test within **ALL** the Personal Order Sets can be accomplished with the Tool in about the same time that traditionally was required of an analyst to replace the order in a single set. In addition, the Tool is an effective POS monitoring mechanism. It can be scheduled to run routinely to search for, report on or even delete orders that by policy are not permitted within order sets. Using the same technology that permits external systems to update patient records using interface transactions, the POS Maintenance Tool provides Information Systems with a powerful tool for maintaining the POS.

Overview

The POS Maintenance Tool can perform the functions listed below for up to ten (10) concurrent parameters / components as provided by the analyst. Any M (Medical Order), P (Charting / Noting Data / Billing) or S (Supply / Billing) data can be updated. The Tool can be scheduled to run automatically (via mainframe scheduler or *Series 7000*TM Scheduled Applications File (SAF call), manually called from matrices, or ran as a background job. The POS Maintenance Tool provides a set of integrated tools using enhanced interface technology to perform the following functions:

Note: A category code, item number and / or literal represent a "component".

1. Search

This function provides capabilities for searching the enterprise's Personal Order Sets, identifying and reporting those Personal Order Sets and specific orders containing the specified component(s).

2. Delete Order

This function provides an automated tool for deleting specified orders, or orders with specified components, from Personal Order Sets.

3. Search and Replace

Search for up ten (10) components for replacement. This means that up to ten changes can be with a single request rather than needing to make ten separate requests.

4. Delete Component

Any component can be removed from the order sets.

5. Insert Component

Orders within Personal Order Sets that meet the specified criteria can have a component inserted (added) at a specific location within the message. The analyst providing the insert criteria defines the position in which the component is inserted into the order message.

Verbose Mode/Update Mode

The Tool can be executed in two modes so that the results of a proposed update can be reviewed and evaluated PRIOR to actually completing the update. The Verbose Mode permits the facility analyst to perfect the function being requested before an actual update request is made. The Verbose Mode provides the analyst a report including the request syntax, any qualifying order's existing message structure and the message structure that would result from an update request using the same syntax. This is useful in perfecting the syntax of a request before actually performing an update.

After perfecting the syntax using the Verbose Mode, the analyst can then use the Verbose Mode Syntax report to recreate the syntax when making update requests. This quality control step helps ensure that once the Update Mode is executed, the desired results will be achieved.

Retained POS Chronology

When updating Personal Order Sets the existing chronology of the Order Set is maintained. This is critical for preserving the chronology of the orders within the set as originally entered and grouped.

Implementation Effort

The entire implementation effort requires less than a week, a great deal of which is dedicated to providing hands on training to the facility analysts that will be using the tool. While UYS does not require on-site activation support for this module, on-site support can be provided.

Assets

The following is a list of the assets that are included with the UYS POS Maintenance Tool:

- **Consulting Support**
One of UYS' Consultant will work with your IS staff in the installation of the Tool. Once installed, the Consultant will provided hands on training sessions to familiarize your staff with the Tool and its use. *The entire installation and training requires less than a week.*
- **Report Format Tables**
The Report Format Table (RFT) is the tool used to read and extract data from the Series 7000 proprietary database.

- **Parsers**
Parsers are used to read external data and update the Series 7000 database.
- **Interface Engine**
If your site uses OpenHUB (STC DataGate) or e*Gate, UYS will provide the code necessary for identifying and structuring the messages that will eventually be used to update the POS. The UYS consultant can perform the coding necessary if this is requested.
- **Job Control Language**
Sample JCL is provided for running the POS Maintenance Tool as a foreground to background job. The UYS consultant will work with your technical staff to customize the JCL for your site.
- **Matrices**
The matrices for requesting the POS Maintenance Tool on-line are provided and relocated to your matrix pack.
- **Work Plan**
A Microsoft Access based work plan for implementing the POS Maintenance Tool.
- **POS Maintenance Tool User's Guide**
A Portable Document Format (PDF) format User's Guide to using the Tool.
- **Updates and Enhancements**
Should a change in Series 7000 result in requisite change in the Tool, updates will be sent to existing clients at no additional cost. Occasionally, client suggested updates will be incorporated into the too; any such enhancements are sent to the existing client base at no additional cost.

About UYS

UYS is a leading Healthcare Information Technology consulting company dedicated to providing solutions to assist healthcare enterprises in optimizing clinical, patient management and financial systems. We accomplish this by providing Technical Consultants that possess unsurpassed knowledge and experience of the systems they support. We take pride in understanding the needs of our clients and the potential of the systems that we support. Our mission is to provide quality consulting, together with unique solutions for today's healthcare challenges.