



Event Capture V. 2.0

FY08 Enhancements

Patch EC*2.0*95 Release Notes

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Introduction

The Event Capture System (ECS) provides a mechanism to track and account for procedures and delivered services that are not handled in any other Veterans Information System and Technology Architecture (VistA) package. The procedures and services tracked through Event Capture are associated with the following:

- The patient to whom they were delivered;
- The provider requesting the service or procedure;
- The DSS Unit responsible for delivering the service.

User Interface

ECS has a Graphical User Interface (GUI). The GUI application is an event driven, Windows-based graphical user interface developed in Delphi.

Enhancements

1. Prevent Progress Note Deletion

The Event Capture System (ECS) will no longer delete Progress Notes or Clinical Reminders from Patient Care Encounter (PCE) visits when an update is sent from ECS to PCE.

ECS is designed to delete visit information in PCE when an ECS update is transmitted to PCE. Prior to this patch, the entire visit was deleted, which removed additional clinical information added by users. The parameters passed to the supported PCE API, `$$DELVFILE^PXAPI`, were modified to limit the data deletion to the Event Capture portion of the visit record.

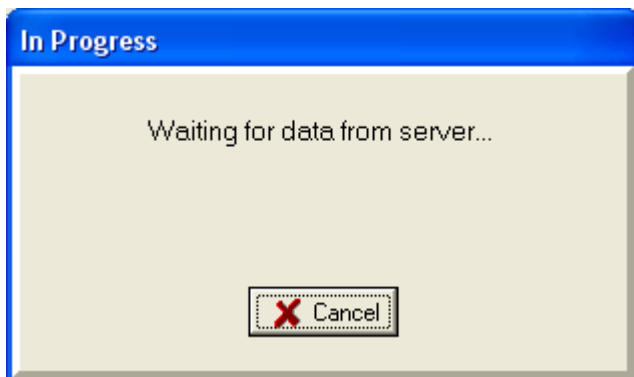
2. Prevent Time-out Errors in Provider (1-7) Summary Report Preview

Selecting date ranges in excess of two weeks resulted in the ECS GUI timing out before the Provider (1-7) Summary Report preview could be generated due to the number of records scanned.

The following modifications will prevent the time-out errors:

- The length of time that ECS will wait for results of the Provider (1-7) Summary Report when clicking the Preview button has been increased to 5 minutes.
- A new “In Progress” dialog box was added to display immediately after clicking the ‘Preview’ button, displaying a message to the user that the report is “Waiting for data from server...” until the previewed report displays or encounters an error.
- An index has been added to the EVENT CAPTURE PATIENT file to improve the report performance.

Example: “In Progress...” display in Provider (1-7) Summary Report

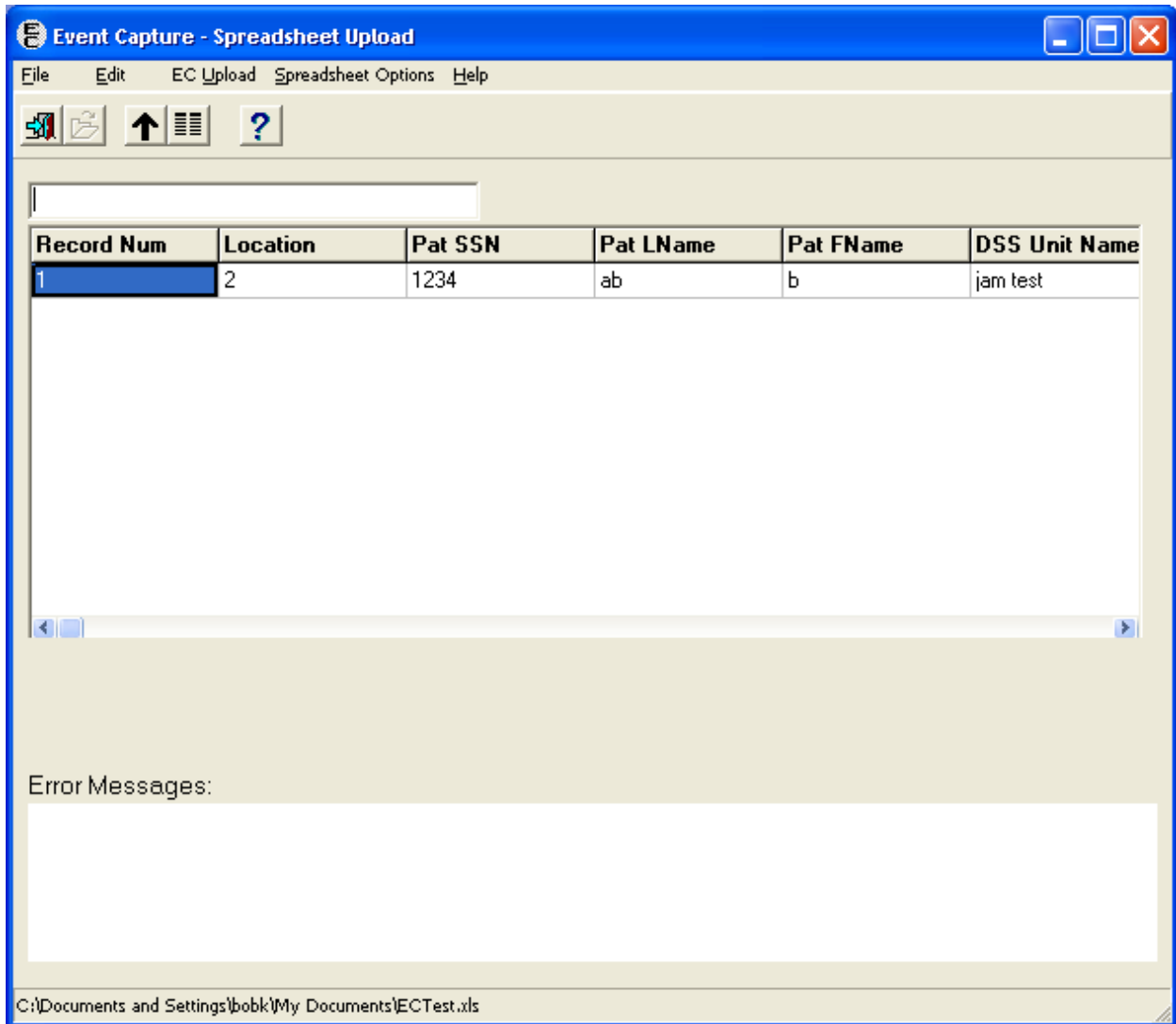


3. Enhanced Spreadsheet Upload Accessibility

The function buttons at the top of the Spreadsheet Upload screen of the ECS GUI now allow a user to access the buttons with the tab key to improve accessibility for visually-impaired users.

During section 508 testing, it was determined that a visually-impaired user could only access the Spreadsheet Upload functionality through the menus at the top of the screen. A user may now use the tab key to access the function buttons and receive feedback on the purpose of each button.

Example: Spreadsheet Upload function buttons



4. Improved Scrolling Through List of Patient Names

Arrow keys may now be used to scroll through patient name lists without being forced to respond to popup message.

The following data entry options have been modified to prevent patient-specific popup informational messages from displaying until the user has selected the desired patient in the Patient Identifier field and the user clicks an action, such as 'Add', 'Update', or 'Delete':

- Data Entry by Patient – Enter/Edit Patient Procedure(s)
- Data Entry by Procedure – Batch (Same Procedure, Multiple Patients)
- Multiple Dates / Procs – Multiple Dates / Multiple Procedures

5. Enhanced Spreadsheet Upload Name Validation

The Spreadsheet Upload option name validation has been enhanced to solve the problem of two character last names generating an error.

ECS was designed to only compare the first four characters of the patient's full name against the name value stored in VistA. A patient with a two character last name would cause the comparison to fail.

The name validation for the Spreadsheet Upload option has been enhanced to compare all characters entered in the last name field in the spreadsheet against the same number of characters in the last name stored in VistA. The first name is validated separately from the last name by comparing all characters entered in the first name field against the same number of characters in the first name stored in VistA.

Note: Since ECS now validates more than the first four characters of the patient's full name and the first name is validated separately from the last name, the characters entered in the first name field must be entered without any leading space or comma.

Two new error messages have been added that will display to the user when a name validation error has occurred. The new error messages are:

- Patient last name doesn't match VistA
- Patient first name doesn't match VistA

The following obsolete error messages have been deleted from the application:

- First 2 chars of patient last name don't match VistA
- First 3 chars of patient last name don't match VistA
- First 4 chars of patient last name don't match VistA
- First char of patient last name doesn't match VistA

6. Retain Provider Selection in Data Entry by Patient

The Data Entry by Patient option now retains the values selected in the Provider field after clicking the “Add” button.

The Data Entry by Patient option is designed to clear all fields, including the Providers Selected field, when the “Add” button is clicked to prepare the screen for the next patient entry. This enhancement prevents the Providers Selected field from clearing to improve data entry efficiency. A validation of the Providers Selected will occur for the next entry and a provider will be removed from the Providers Selected field when the following conditions exist:

- The selected provider is not active for the specific procedure date and time.
- More than one provider is selected and at least one of them is not active for the specific procedure date and time.

7. Display Report Titles for Two Reports When Previewed

The National/Local Procedure Report and the Category Report now display the report title in the body of the report when clicking the Preview button.

During section 508 testing, it was discovered that the titles of National/Local Procedure Report and the Category Report were not displaying with the report contents during “Preview”. The missing title prevented the user from determining the contents of the report being displayed.

- For the National/Local Procedure Report, the report title will display in the body of the report and correspond with the reporting options (Active/Inactive, Preferred Report, and Sort Method) chosen during report selection:
 - National/Local Procedure Report – Active National by Procedure
 - National/Local Procedure Report – Active National by National Number
 - National/Local Procedure Report – Active Local by Procedure
 - National/Local Procedure Report – Active Local by National Number
 - National/Local Procedure Report – Active National and Local by Procedure
 - National/Local Procedure Report – Active National and Local by National Number
 - National/Local Procedure Report – Inactive
- The National/Local Procedure Report preview window title will correspond with the activity option selected during report selection:
 - National/Local Procedure Report – Active
 - National/Local Procedure Report – Inactive
- For the Category Report, the report title will display in the body of the report and both the report title and the preview window title will correspond with the activity option (Active, Inactive, or Both) selected during report selection:
 - Category Report – Active
 - Category Report – Inactive
 - Category Report – Both Active and Inactive

8. Report Informational Footer Added

An informational footer has been added to seven reports.

The volume field reported in Event Capture reports may contain 3 different elements: number of days for a patient in a contract nursing home (D), amount of time associated with a procedure in minutes (MIN), or number of procedures performed on a patient (P). To remind the user of the applicable volume units when interpreting the reports, the following explanatory note has been added as footer on each page of the ECS reports that display a volume field:

Volume totals may represent days, minutes, numbers of procedures and/or a combination of these

The specific reports are:

- Patient Summary Report
- DSS Unit Workload Summary Report
- Provider Summary Report
- Ordering Section Summary Report
- Provider (1-7) Summary Report
- PCE Data Summary Report
- DSS Unit Activity Report

9. Two Reports Allow <ALL> Locations

The Print Category and Procedure Summary Report and the Event Code Screens with CPT Codes Report now allow “<ALL>” locations to be selected for printing.

This enhancement allows a user to run reports for all locations at one time instead of having to select each individual location and running each location as an individual report.

10. New DSS Unit Activity Report

A new DSS Unit Activity Report is added that will list all patients for a specific DSS Unit for a given range of dates.

The output includes:

- Run Date
- Location
- Date Range
- DSS Unit Name
- DSS Unit Number
- Patient Name
- SSN
- Inpatient/Outpatient
- Date/Time of Procedure
- Procedure Code
- Procedure Name
- Volume
- Primary Provider
- Primary Diagnosis

Note: The ECMGR security key is NOT required to access this report.

11. Enhanced Data Entry by Procedure Option

Enhanced Data Entry by Procedure (Same Procedure, Multiple Patients) option

- Previously, after fields had been filled-in on the left side of the screen (Selection Criteria, Reason, Modifiers, and Providers) and the user moved back to one of the fields and tabbed out of it, the fields following in sequence would be cleared. Now, on the left side of the screen, tabbing through the current field position will not clear the following fields.
- In the case of the selected modifiers and selected providers, if a previous field is modified and available lists are updated, the current selected list will be checked against the updated available list. If a selected modifier is no longer in the corresponding list of available modifiers, that selected modifier is removed. A selected modifier which is still found in the updated list of available modifiers will be kept in the selected list. Selected providers are processed in the same way.
- Patient information on the right side of the screen will now be preserved following changes on the left side of the screen.

12. Enhanced Multiple Date / Multiple Procedure Option

Enhanced Multiple Dates/Procs (Multiple Dates/Multiple Procedures) option

The Multiple Date/Multiple Procedure Option was designed to clear all fields and return the user to the Event Capture – Data Entry Menu after clicking the ‘OK’ button.

The option has been enhanced by the addition of a new ‘Add’ button. After the user clicks the ‘Add’ button, the user will remain in the Multiple Dates/Multiple Procedures option and be returned to the ‘Procedures’ tab. The Location, DSS Unit, Category, and Provider fields will remain populated and all other fields will be cleared. The ‘OK’ button will continue to return the user to the Event Capture-Data Entry Menu.

13. Display Status Message on Data Entry Screens

The informational message **“Press F1 to view Service Connection and Rated Disabilities information”** now displays in the status line at the bottom of the data entry option screens. The specific data entry options are:

- Data Entry by Patient – Enter/Edit Patient Procedure(s)
- Data Entry by Procedure – Batch (Same Procedure, Multiple Patients)
- Multiple Dates / Procs – Multiple Dates / Multiple Procedures

14. Enhanced Add Event Code Screen Option

The Event Code Screen – Add or Update Event Codes Screens option was designed to allow only one location to be selected when adding a new event code screen definition and the DSS Unit, Category, and Location fields were disabled after clicking the ‘Add’ button.

The option has been enhanced to allow selection of more than one location or <ALL> in the Location list when adding new event code screens. Also, after clicking the ‘Add’ button, the Category and Location fields remain enabled to allow modification when defining the next event code screen.

15. Renamed NIGHTLY DATA FEED to PCE Option

The NIGHTLY DATA FEED to PCE [EC NIGHT] option has been renamed to EC DATA FEED to PCE [EC PCE FEED]. This is a follow-up to patch EC*2.0*83 which changed the frequency of the data feed from a nightly task to a periodic task occurring every 1 to 3 minutes.

16. Modified PCE Visits Creation Process

The transfer of data from Event Capture to PCE was designed to depend on the EC DATA FEED TO PCE [EC PCE FEED] option. The option runs on a time schedule and sends the user name that started the TaskMan task as the creator of the PCE Visit entry.

The process used to transfer Event Capture data to PCE has been modified to allow the user name of the person that created the Event Capture entry to be used as the creator of the PCE Visit entry.

- The Event Capture filer will now trigger an immediate data transfer to PCE in the background after the Event Capture record is filed.
- The PCE data transfer will no longer depend on the EC DATA FEED TO PCE [EC PCE FEED] option to transfer the data.

17. Prevent Display of Inactive Procedure Modifiers

The RPC, EC GETPXMODIFIER, is used by the ECS GUI to populate the modifiers fields in the data entry options. The modifiers will now be filtered to prevent inactive procedure modifiers from being displayed to comply with code set versioning rules.

The specific data entry options are:

- Data Entry by Patient – Enter/Edit Patient Procedure(s)
- Data Entry by Procedure – Batch (Same Procedure, Multiple Patients)
- Multiple Dates / Procs – Multiple Dates / Multiple Procedures

18. Enabled Alpha-Prefixed Procedure Codes Transfer to PCE

The EC DATA FEED TO PCE option was designed to pass only numeric procedure codes to PCE. The option will now transfer valid procedure codes that begin with an alpha-prefix, such as Health Care Common Procedure System (HCPCS) codes.

19. Updated the EC GUI Versions

The EC GUI versions needed to be updated to reflect the latest EC GUI release.

- The EC GUI CONTEXT option is modified to update the server version to 2.1.1.0.
- The EC GUI client is changed to version 2.1.1.0.
- Client version information is now stored in the client executable file (ECS GUI.exe).