Requirement	Requirement Satisfied (Yes/No)	Vendor Response/Submission/Comments
§170.302.a: Drug-drug, drug-allergy interaction checks		
Provide a unique patient record to be used for the testing of this module only.	**Yes**	See Below
Provide and configure unique test data for the testing of this module. Data must include patient's active medications and active medication allergies.	**Yes**	
Provide one unique item for each: drug-drug and drug-allergy notifications and CPOE medication orders which can be used to initiate the notifications during testing.	**Yes**	
Provide instructions on how to use the EHR functions to: 1)　　Select the patient. 2)　　Generate and indicate, in real-time, drug-drug and drug-allergy alerts based on patient medication list and medication allergy list during computerized provider order entry (CPOE). 3)　　Adjust notifications for drug-drug and drug-allergy interaction checking. 4)　　Enable the Tester to serve as a user with the specific ability to adjust notifications.	**Yes**	See Below

**1)** Select Patient
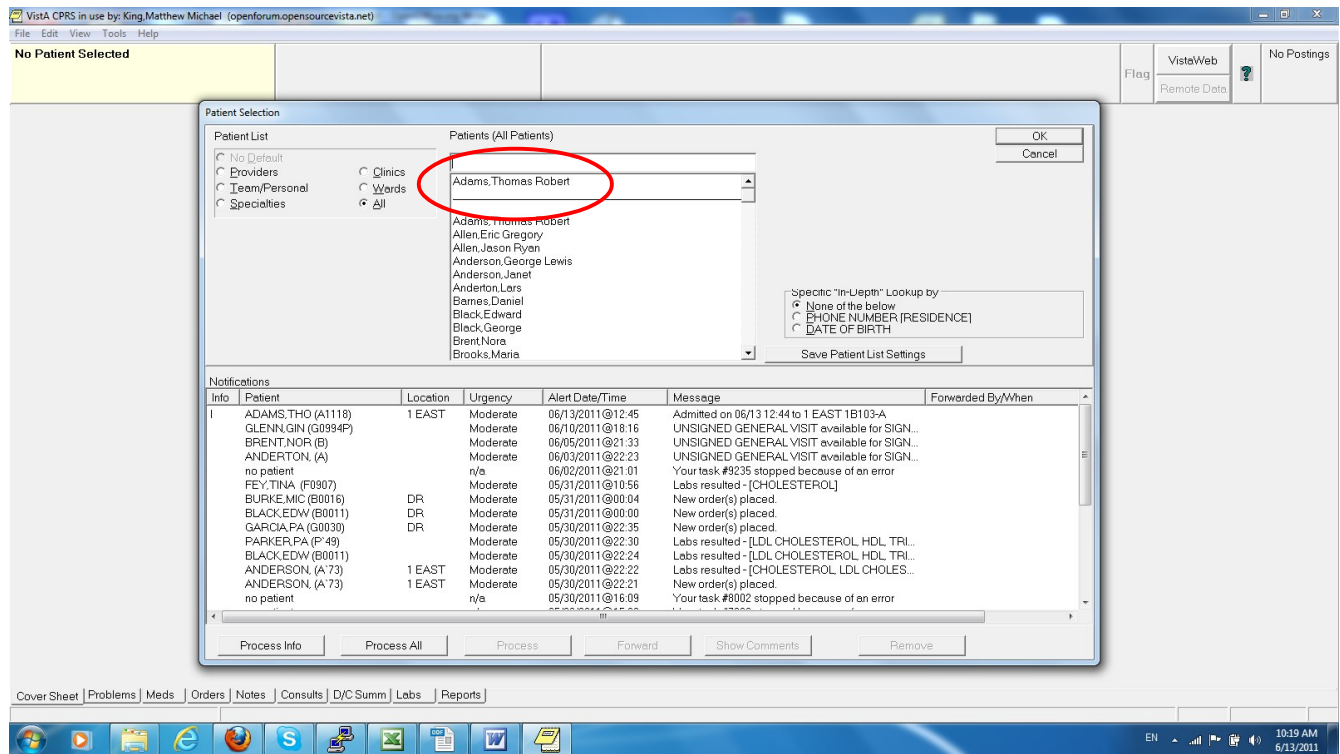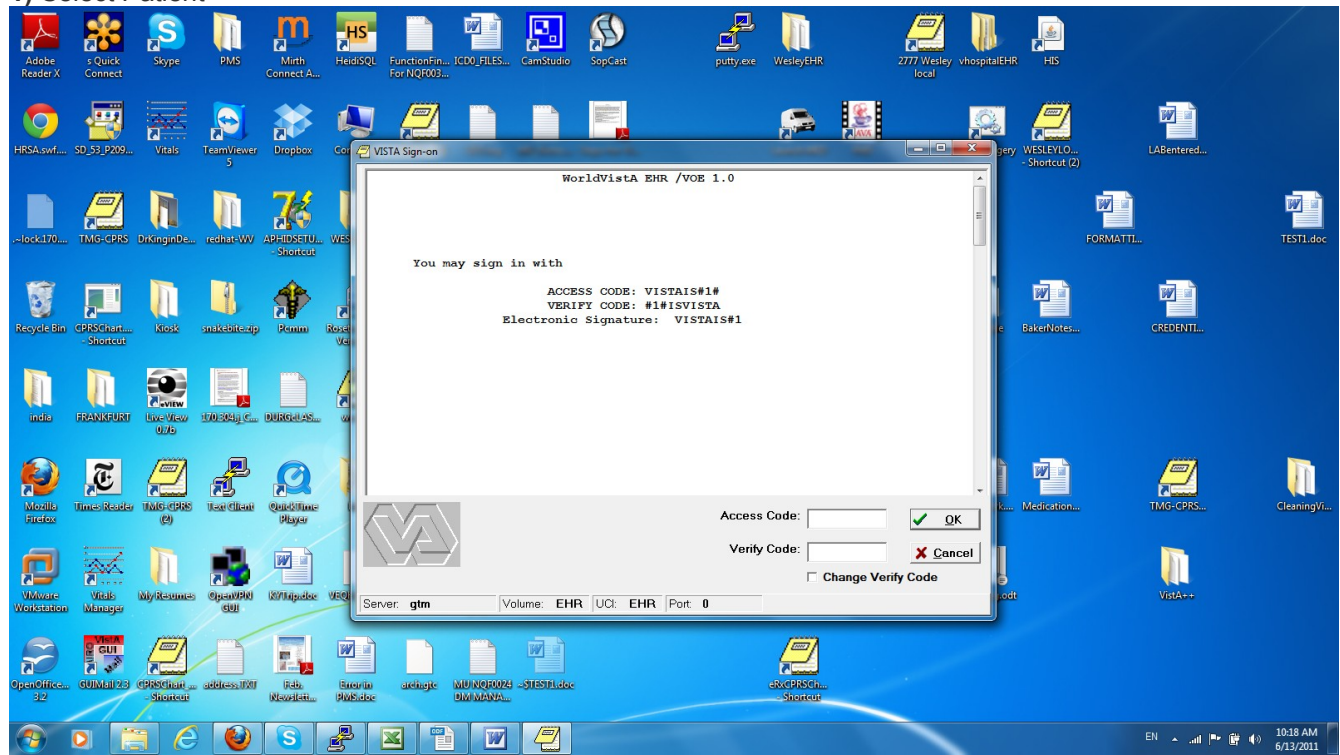
2) Generate and indicate, in real-time, drug-drug and drug-allergy alerts based on patient medication list and medication allergy list during computerized provider order
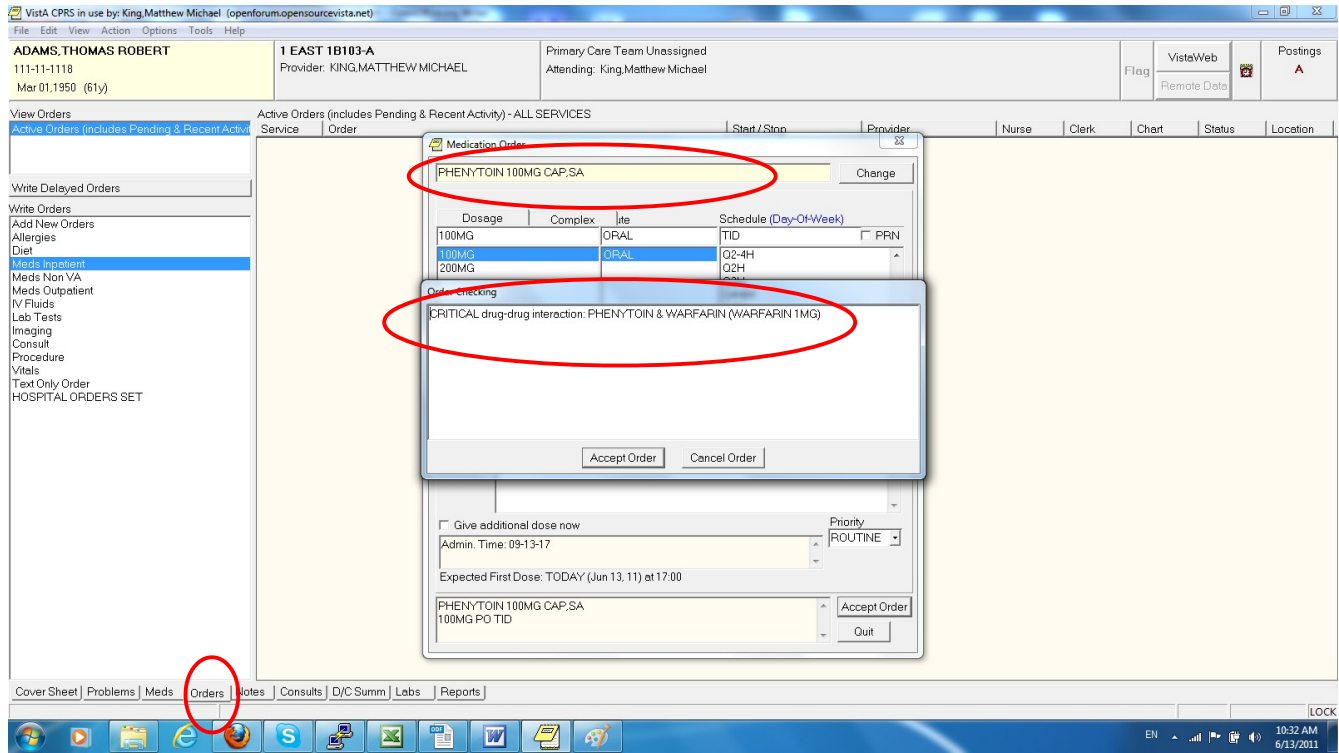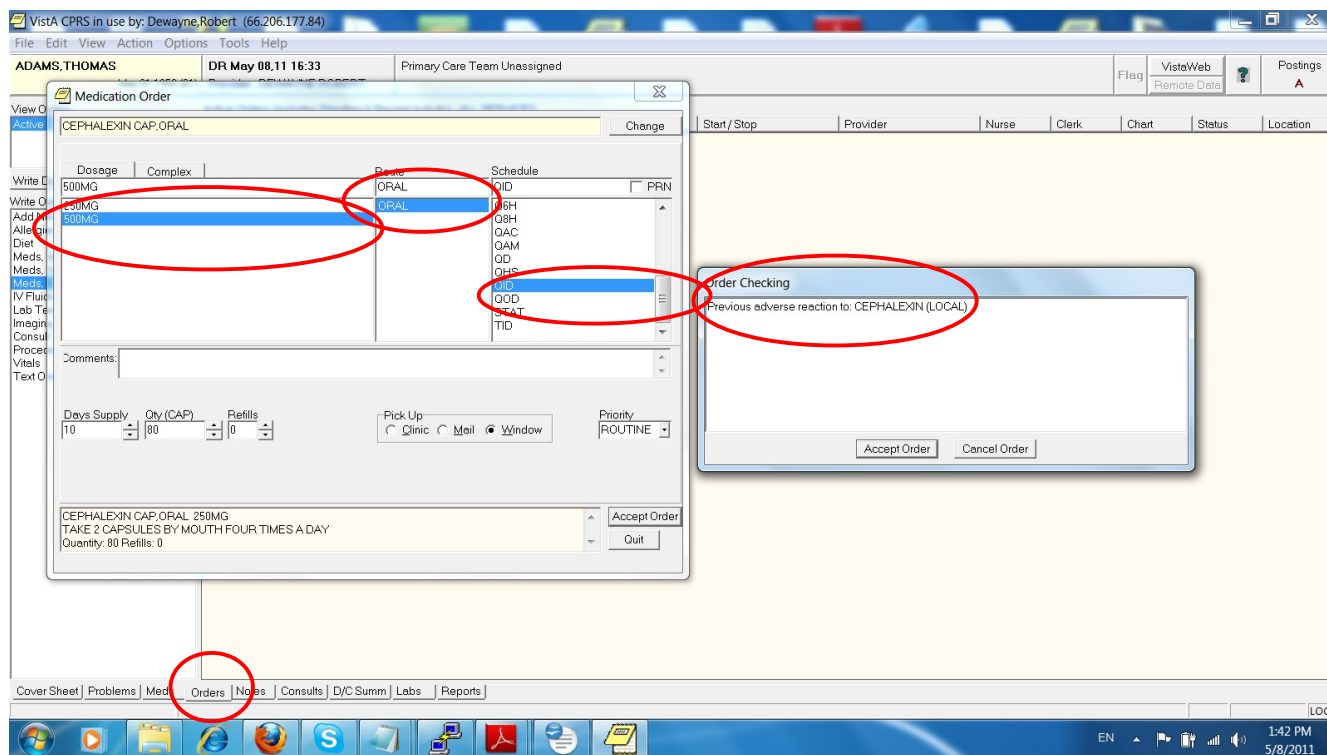

2) Generate and indicate, in real-time, drug-drug and drug-allergy alerts based on patient medication list and medication allergy list during computerized provider order entry (CPOE).
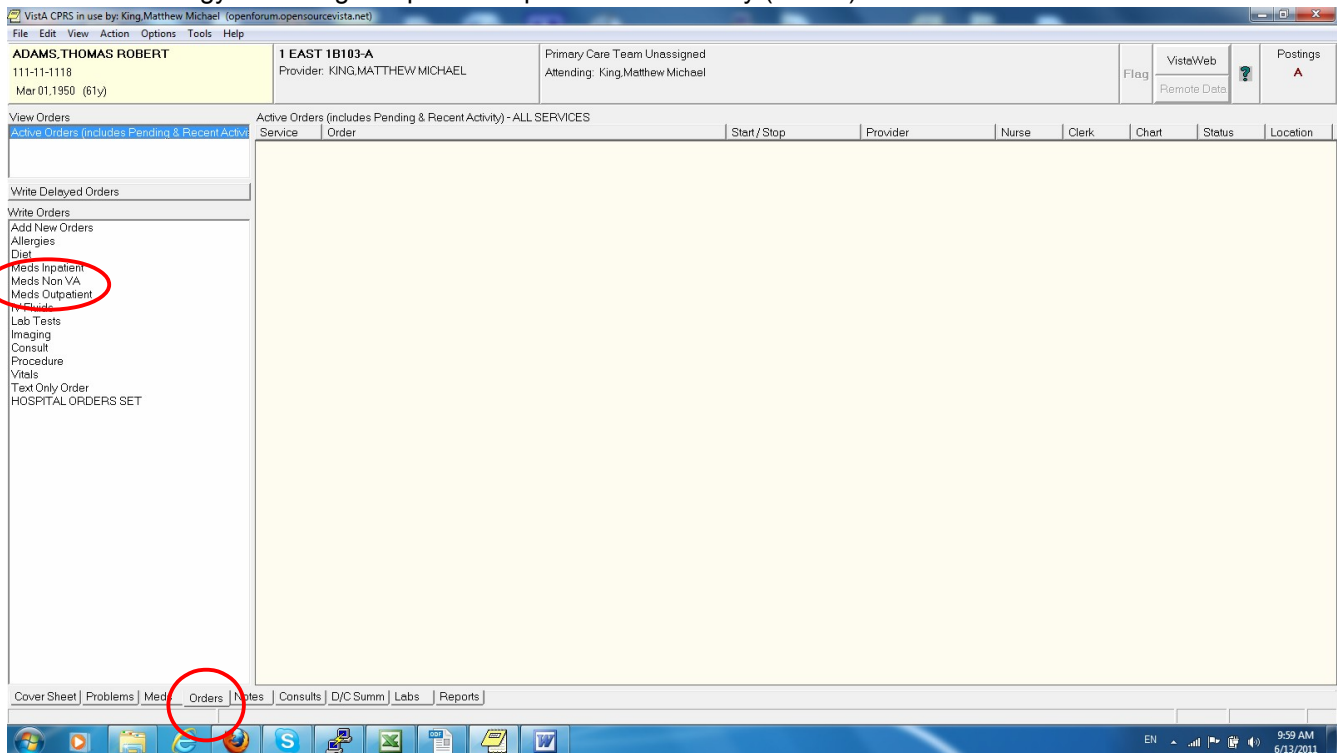
- At least one each of drug-drug and drug-allergy notifications based on the patient's medication list and medication allergy list are generated and indicated in real-time
- The alerts are displayed as described by the Vendor in VE170.302.a- 1.03

3) Adjust notifications for drug-drug and drug-allergy interaction checking.

IN170.302.a – 2.01: Tester shall verify that at least one each of drug-drug and drug-allergy notifications are adjustable by the user with the specific ability to adjust notifications as identified by the Vendor

IN170.302.a – 2.02: Tester shall verify that the adjusted drug-drug and drug-allergy notifications are generated and indicated in real-time during CPOE, are displayed as described by the Vendor in VE170.302.a-1.03, and are based on the patient's medication list and medication allergy list

Login to WorldVistA EHR terminal session.

Choose 1-3 or '^' to quit: 1
- - - - - - - - - - - - — -

Select User Management Option:
Select Systems Manager Menu Option: **FM** VA FileMan
Select VA FileMan Option: **Enter** or Edit File Entries

INPUT TO WHAT FILE: **DRUG INTERACTION**//
EDIT WHICH FIELD: ALL//

Select DRUG INTERACTION NAME: **PHENYT**
    1   PHENYTOIN/QUETIAPINE FUMARATE
Primary Ingre.: PHENYTOIN   and   QUETIAPINE FUMARATE   Severity: SIGNIFICANT
    2   PHENYTOIN/QUINESTROL
Primary Ingre.: PHENYTOIN   and   QUINESTROL   Severity: CRITICAL
    3   PHENYTOIN/RALTEGRAVIR
Primary Ingre.: PHENYTOIN   and   RALTEGRAVIR   Severity: SIGNIFICANT
    4   PHENYTOIN/RIFAMPIN
Primary Ingre.: PHENYTOIN   and   RIFAMPIN   Severity: SIGNIFICANT
    5   PHENYTOIN/RISPERIDONE
Primary Ingre.: PHENYTOIN   and   RISPERIDONE   Severity: SIGNIFICANT
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 1   PHENYTOIN/QUETIAPINE FUMARATE
Primary Ingre.: PHENYTOIN   and   QUETIAPINE FUMARATE   Severity: SIGNIFICANT
NAME: PHENYTOIN/QUETIAPINE FUMARATE   Replace
INGREDIENT 1: PHENYTOIN//
INGREDIENT 2: QUETIAPINE FUMARATE//
SEVERITY: SIGNIFICANT// ??
    This field is used to indicate the type of reaction from the interaction
.

    Choose from:
    1   CRITICAL
    2   SIGNIFICANT
SEVERITY: SIGNIFICANT// 1   **CRITICAL**
NATIONALLY ENTERED: YES//
TOTAL INDEXES: 16304//   (No Editing)
INACTIVATION DATE:

One can edit severity in a number of ways with the proper credentials. Here is how to do it in Fileman. Only personnel with a programmer's "@" level may do this:

S ^DD(56,3,9)="@" at prompt:
    Core Applications ...
    Device Management ...
    Menu Management ...
    Programmer Options ...
    Operations Management ...
    Spool Management ...
    Information Security Officer Menu ...
    Taskman Management ...
    User Management ...
  FM   VA FileMan ...
    Application Utilities ...
    Capacity Planning ...
    HL7 Main Menu ...
    Manage Mailman ...
    MAS Parameter Entry/Edit

You've got PRIORITY mail!

Select Systems Manager Menu Option: FM VA FileMan
        VA FileMan Version 22.0

        Enter or Edit File Entries
        Print File Entries
        Search File Entries
        Modify File Attributes
        Inquire to File Entries
        Utility Functions ...
        Data Dictionary Utilities ...
        Transfer Entries
        Other Options ...

You've got PRIORITY mail!

==
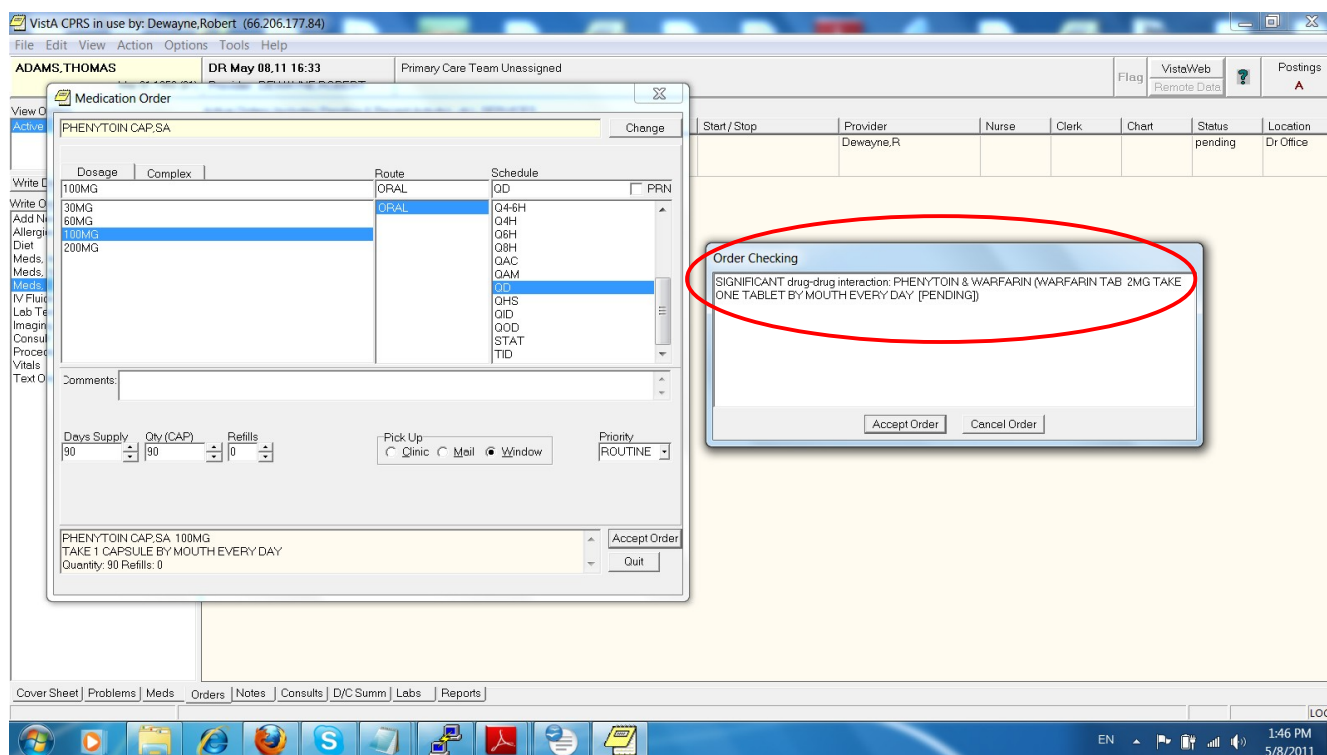
    2)   Changing Drug-allergy interaction severity:
Select Core Applications Option: **CAC CPRS Configuration (Clin Coord)**

  AL   Allocate OE/RR Security Keys
  KK   Check for Multiple Keys
  DC   Edit DC Reasons
  GP   GUI Parameters ...
  GA   GUI Access - Tabs, RPL
  MI   Miscellaneous Parameters
  NO   Notification Mgmt Menu ...

OC   Order Checking Mgmt Menu ...
MM   Order Menu Management ...
LI   Patient List Mgmt Menu ...
FP   Print Formats
PR   Print/Report Parameters ...
RE   Release/Cancel Delayed Orders
US   Unsigned orders search
EX   Set Unsigned Orders View on Exit
NA   Search orders by Nature or Status
CM   Care Management Menu ...
DO   Event Delayed Orders Menu ...
LO   Lapsed Orders search
PM   Performance Monitor Report

You've got PRIORITY mail!

Select CPRS Configuration (Clin Coord) Option: **OC Order Checking Mgmt Menu**

    1   Enable/Disable an Order Check
    2   **Set Clinical Danger Level for an Order Chec**k
    3   CT Scanner Height Limit
    4   CT Scanner Weight Limit
    5   MRI Scanner Height Limit
    6   MRI Scanner Weight Limit
    7   Orderable Item Duplicate Order Range
    8   Lab Duplicate Order Range
    9   Radiology Duplicate Order Range
    10   Enable or Disable Order Checking System
    11   Enable or Disable Debug Message Logging
    12   Display the Order Checks a User Can Receive
    13   Edit Site Local Terms
    14   Set Number of Medications for Polypharmacy
    15   Set Creatinine Date Range for Glucophage-Lab Rslts
    16   Set Order Checks to be Uneditable By Users
    17   Set Creatinine Date Range for Contrst Media Orders
    18   Order Check Override Reason Report

You've got PRIORITY mail!

Select Order Checking Mgmt Menu Option: **2 Set Clinical Danger Level fo**r an Order Check

          Set Clinical Danger Level for an Order Check

Order Check Clinical Danger Level may be set for the following:

    1   Division   DIV   [VOE OFFICE INSTITUTION OLD]
    2   System   SYS   [BETA.VISTA-OFFICE.ORG]
    3   Package   PKG   [ORDER ENTRY/RESULTS REPORTING]

Enter selection: S

Setting Order Check Clinical Danger Level for System: BETA.VISTA-OFFICE.ORG

Select Order Check: **ALL**
     1   ALLERGY-CONTRAST MEDIA INTERACTION
     2   ALLERGY-DRUG INTERACTION
CHOOSE 1-2: **2 ALLERGY-DRUG INTERACTION**
Are you adding ALLERGY-DRUG INTERACTION as a new Order Check? Yes//   **YES**

Order Check: ALLERGY-DRUG INTERACTION//   ALLERGY-DRUG INTERACTION   ALLERGY-DRU
Value: High// **??**

**Package, System, Division indicate the clinical danger level of an order
check. Valid levels include High, Moderate, Low. The clinical danger
level is used in sorting for order check display and prompting for override.**

Value: High//

     3)   **VE170.302.a – 1.04**: Vendor shall identify the EHR function(s) that are available to: 1) select the
patient, 2) generate and indicate, in real-time, drug-drug and drug-allergy
notifications based on patient medication list and medication allergy list during
computerized provider order entry (CPOE), 3) adjust notifications for drug-drug
and drug-allergy interaction checking and 4) **enable the Tester to serve as a user
with the specific ability to adjust notifications**
          a) Changing the Drug-Drug interactions permissions

               We will need a "test" user (Physician), with no secondary menus:
               1.   Give the menu "EVE" Test Physician at Test time and allow him to edit.
               2.   If he is going to edit from "critical" to "significant", he will also need programmer access "@"

```
CEPHALEXIN 500MG CAP,ORAL
500MG PO QID *UNSIGNED*

Activity:
06/13/2011 13:30  New Order entered by KING,MATTHEW MICHAEL (ANALYST)
     Order Text:        CEPHALEXIN 500MG CAP,ORAL
                        500MG PO QID
     Nature of Order:   ELECTRONICALLY ENTERED
     Ordered by:        KING,MATTHEW MICHAEL (ANALYST)
     Signature:         NOT SIGNED

Current Data:
Current Primary Provider:    KING,MATTHEW MICHAEL
Current Attending Physician: KING,MATTHEW MICHAEL
Treating Specialty:          MEDICINE
Ordering Location:           1 EAST
Start Date/Time:
Stop Date/Time:
Current Status:              UNRELEASED
Order #419

Order:
Medication:                 CEPHALEXIN 500MG CAP,ORAL
Instructions:               500MG ORAL QID
Text:
  500MG PO QID
Priority:                   ROUTINE
Comments:

Order Checks:
MODERATE:   Previous adverse reaction to: CEPHALEXIN (LOCAL)

============================================================================


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MEDICATION HISTORY for MAY 14, 2011  to  JUN 13, 2011                Run Date: JUN 13, 2011@13:31
CEPHALEXIN 500MG CAP,ORAL
500MG PO QID *UNSIGNED*

Activity:
06/13/2011 13:38  New Order entered by KING,MATTHEW MICHAEL (ANALYST)
     Order Text:        CEPHALEXIN 500MG CAP,ORAL
                        500MG PO QID
     Nature of Order:   ELECTRONICALLY ENTERED
     Ordered by:        KING,MATTHEW MICHAEL (ANALYST)
     Signature:         NOT SIGNED

Current Data:
Current Primary Provider:    KING,MATTHEW MICHAEL
Current Attending Physician: KING,MATTHEW MICHAEL
Treating Specialty:          MEDICINE
Ordering Location:           1 EAST
Start Date/Time:
Stop Date/Time:
Current Status:              UNRELEASED
Order #419

Order:
Medication:                 CEPHALEXIN 500MG CAP,ORAL
Instructions:               500MG ORAL QID
Text:
  500MG PO QID
Priority:                   ROUTINE
Comments:

Order Checks:
HIGH:       Previous adverse reaction to: CEPHALEXIN (LOCAL)

============================================================================


============================================================================
MEDICATION HISTORY for MAY 14, 2011  to  JUN 13, 2011                Run Date: JUN 13, 2011@13:38
                                                                              Page: 1
MEDICATIONS SEARCH LIST: CEPHALEXIN 500MG

Patient:  ADAMS,THOMAS ROBERT        SSN:      111-11-1118      DOB:  MAR 1,1950 (61)
Sex:      MALE                       Ht/Wt:    */*              Ward: 1 EAST Rm 1B103-A
Dx:       PAIN                       Last Mvmt: JUN 13,2011@12:44:23  Type: ADMISSION

ADRs:        No ADRs on file.

Allergies: CEPHALEXIN
============================================================================
Location          St Sch Administration Date   By       Injection Site          Units      Units of
                                                       Medication & Dosage       GIVEN      Administration
----------------------------------------------------------------------------
<<<< NO HISTORY FOUND FOR THIS TIME FRAME >>>>
============================================================================
ADAMS,THOMAS ROBERT                              111-11-1118                Ward: 1 EAST  Room-Bed: 1B103-A
```

Notes: Enabled "Entered in Error" from CAC->GP
Inactivated Remote order checking at COR>IRM>ORDER CHECK EXPERT>REMOTE DATA

==Configure the user accounts in the EHR to allow access to adjust the drug-drug and drug-allergy notifications for one user, but not allow this access to another user.==
a) Drug-Drug:
USE DR.EIGHT VERIFY:USER.D08 THIS USE HAS "#" FILEMAN ACCESS AND IS
UNABLE TO CHANGE CRITICAL REACTIONS:
 NAME... DOCTOR,EIGHT   INITIAL:
   TITLE: Physician   NICK NAME:
     SSN: 000000010   DOB:
  DEGREE: MAIL CODE:
  DISUSER: TERMINATION DATE:
  Termination Reason:

         PRIMARY MENU OPTION: DGZ REGISTRATION MENU
 Select SECONDARY MENU OPTIONS: OR CPRS GUI CHART
Want to edit ACCESS CODE (Y/N):   ==FILE MANAGER ACCESS CODE: #==
DR EIGHT CANNOT EVEN GET TO THE FILEMEN PROMPT.
==NOW USE KING AND GIVE "@" AND ADD EVE:== (DONE ON DOCTOR,ELEVEN
DR.ELEVEN;USER.D11):
DR.EIGHT;USER.D08

GTM>S $P(^VA(200,21,0),"^",4)+"@"

_____

_____
   NAME... DOCTOR,ELEVEN   INITIAL:
   TITLE: Physician   NICK NAME:
     SSN: 000000013   DOB:
  DEGREE: MAIL CODE:
  DISUSER: TERMINATION DATE:
  Termination Reason:

         PRIMARY MENU OPTION: EVE
 Select SECONDARY MENU OPTIONS: OR CPRS GUI CHART
Want to edit ACCESS CODE (Y/N):   FILE MANAGER ACCESS CODE: #
Want to edit VERIFY CODE (Y/N):

          Select DIVISION: VOE OFFICE INSTITUTION OLD
          SERVICE/SECTION: MEDICINE

_____

_____
1   EVE   Systems Manager Menu
2   EVENT CAPTURE (ECS) EXTRACT AU ECX ECS SOURCE AUDIT   Event Capture (
ECS) Extract Audit

3   EVENT CAPTURE DATA ENTRY ECENTER   Event Capture Data Entry

Matthew M. King