



**DEPARTMENT OF VETERANS AFFAIRS  
VHA Innovation Program**

**Traumatic Brain Injury (TBI) Clinical Decision Support (CDS)  
Implementation  
(VA118-14-C-0015)**

**Site System Administration Manual**

**Deliverable CLIN 0002 AR**

Intellica Corporation  
209 W. Poplar  
San Antonio, Texas 78212

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## Table of Contents

Change Log .....	3
Introduction .....	4
AITC Central Server Setup for Sites .....	4
CPRS Tools Menu Installation .....	6
Testing the Tools Menu option .....	7
Troubleshooting .....	9

**Change Log**

Date	Version	Author	Revision Description
06/16/2015	1	Craig Rebo	Created
06/18/2015	2	Craig Rebo	AITC Server setup, testing and trouble shooting
06/29/2015	2	Marisol Smith, Craig Rebo	Made note that AITC will provide URL

## Introduction

This document is the site system administrator guide for the Traumatic Brain Injury (TBI) Clinical Decision Support (CDS) application.

## AITC Central Server Setup for Sites

Before access to TBI CDS can be granted to a local site, some things have to happen on the central server at the AITC.

The following sites will be configured at AITC for the first release of the software:

Richmond, VA  
Palo Alto, CA  
San Antonio, TX  
Minneapolis, MN  
Tampa, FL

Additional sites will be configured as needed.

The following steps must happen at the AITC to allow the site to access the TBI CDS software:

1. Production MDWS at the AITC must have access to the site. This involves making sure the site XML file has the entry needed to access the site via the MDWS web service. The MDWS getVHA method can be used to verify the site is correctly configured.

The logo for EmrSvc, consisting of the text "EmrSvc" in white on a dark blue rectangular background.

Click [here](#) for a complete list of operations.

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The logo for getVHA, consisting of the text "getVHA" in a bold, dark blue font.

Get all VHA sites

```

<RegionArray xmlns:xsi="http://www.w3.org/2001/XMLSchema
  <count>4</count>
  ▼<regions>
    ▼<RegionTO>
      <name>Development VISN</name>
      <id>1</id>
      ▼<sites>
        <count>3</count>
        ▼<sites>
          ▼<SiteTO>
            <sitecode>101</sitecode>
            <name>Development VistA</name>
            <displayName>Development VistA</displayName>
            <moniker>S1A</moniker>
            <regionID>1</regionID>
            <uid/>
            <pid/>
            ▼<dataSources>
              <count>1</count>
              ▼<items>
                ▼<DataSourceTO>
                  <protocol>VISTA</protocol>
                  <modality>HIS</modality>
                  <timeout>0</timeout>
                  <port>9200</port>
                  <provider>54.235.240.230</provider>
                  <status>active</status>
                  <description/>
                  <context/>
                  <testSource>false</testSource>
                  <vendor/>
                  <version/>
                ▼<siteId>

```

- The TBI CDS site table must also have an entry added that describes the port and provider needed to log in and access the site.

A query of the TBI CDS site cable can be used to verify the site is correctly configured:

REGION_ID	1
SITE_ID	107
SITE_NAME	Development VistA
SRV	54.235.240.230
PORT	9200

- Pathways and other static data must be loaded in the TBI CDS central database tables. We will develop a database script to run at the AITC that will load all static data for the site to the central database server.

Once the above 3 steps are complete, the site can add an option to the CPRS tools menu to access TBI CDS.

## CPRS Tools Menu Installation

An entry for the TBI CDS website must be added to the tools menu of CPRS using the GUI Tool Menu Items option. Below is an example of adding the menu option. It is left to the site to determine the level at which the tools menu will be accessible (USR, LOC, SRV, DIV or SYS).

CS	GUI Cover Sheet Display Parameters ...
HS	GUI Health Summary Types
TM	GUI Tool Menu Items
MP	GUI Parameters - Miscellaneous
UC	GUI Clear Size & Position Settings for User
RE	GUI Report Parameters ...
NV	GUI Non-VA Med Statements/Reasons
EX	GUI Expired Orders Search Hours
RM	GUI Remove Button Enabled
NON	GUI Remove Button Enabled for Non-OR Alerts
CLOZ	GUI Edit Inpatient Clozapine Message
COAG	GUI Anticoagulation Parameters ...
DEA	GUI ePCS Management Menu ...
EIE	GUI Mark Allergy Entered in Error

Select GUI Parameters <TEST ACCOUNT> Option:

CPRS GUI Tools Menu may be set for the following:

1	User	USR	[choose from NEW PERSON]
2	Location	LOC	[choose from HOSPITAL LOCATION]
2.5	Service	SRV	[choose from SERVICE/SECTION]
3	Division	DIV	[choose from INSTITUTION]
4	System	SYS	[GOLD.VAINNOVATION.US]

Enter selection:

Website tools menu command:

Name=Command: TBI CDS Application=[https://\[AITC URL GOES HERE\]/TBIPractitionerPortal/TBICDSXPAT.aspx?p1=%DUZ&p2=%DFN&p3=%SRV&p4=%PORT&p5=%MREF](https://[AITC URL GOES HERE]/TBIPractitionerPortal/TBICDSXPAT.aspx?p1=%DUZ&p2=%DFN&p3=%SRV&p4=%PORT&p5=%MREF)

Note: AITC will provide the URL to be used in the command above.

The TBI CDS Application is passed the following on the query string:

%DUZ	= Internal entry number of the current user
%DFN	= Actual DFN of the currently selected patient
%SRV	= Server name for the current broker connection
%PORT	= Port number for the current broker connection
%MREF	= M code giving the global reference where the patient DFN is stored

These parameters are used to select the site the user is logging into and load the patient selected in CRPS into TBI CDS after the user logs in to the website.

## Testing the Tools Menu option

To test the tools menu option created above, perform the following steps:

1. Run the CPRS shortcut from your desktop.



Example shortcut: D:\cprs\CPRSChart.exe s=54.235.240.230 p=9300

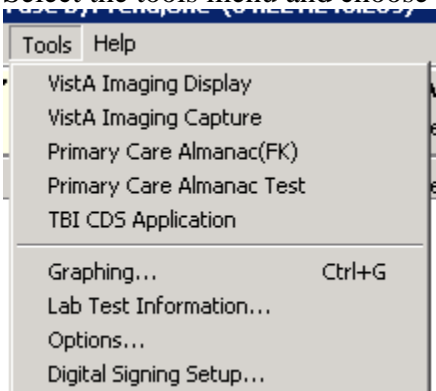
2. Log in to CPRS.

A login dialog box for CPRS. It has a title bar with a dropdown arrow. Below the title bar is a row of ten asterisks. The main area contains two input fields: 'Access Code:' and 'Verify Code:'. The 'Access Code:' field has a green checkmark icon to its right, and the 'Verify Code:' field has a red X icon to its right. Below these fields are 'OK' and 'Cancel' buttons. At the bottom, there is a checkbox labeled 'Change Verify Code'.

3. Select a patient.

A 'Patient Selection' dialog box. It has a title bar with a yellow folder icon and the text 'Patient Selection'. Below the title bar is a section labeled 'Patient List' with two columns of radio buttons. The first column contains 'No Default', 'Providers', 'Team/Personal', and 'Specialties'. The second column contains 'Clinics', 'Wards', and 'All'. The 'All' option is selected. To the right of the radio buttons is a list box titled 'Patients (All Patients)'. The list box contains a search field at the top and a list of patient names below it. The first name, 'Bcma,Eighty-Patient', is selected and highlighted. The list of names includes: 'Bcma,Eight', 'Bcma,Eighteen-Patient', 'Bcma,Eighty-Patient', 'Bcma,Eightyeight-Patient', 'Bcma,Eightyfive-Patient', 'Bcma,Eightyfour-Patient', 'Bcma,Eightynine-Patient', 'Bcma,Eightyone-Patient', and 'Bcma,Eightyseven-Patient'.

4. Select the tools menu and choose the TBI CDS Application menu option.



5. The TBI CDS application should open in a new web browser window. Select a clinical program area and log in to TBI CDS using the same credentials you used to log into CPRS.

A screenshot of a web browser window displaying the 'LOGIN' page of the TBI CDS application. The page has a light blue header with the word 'LOGIN' in a blue box. Below the header, there is a section titled 'CLINICAL PROGRAM AREA' with a dropdown menu currently showing 'Polytrauma Rehabilitation Ce'. Underneath this are two input fields: 'USERNAME' and 'PASSWORD', both containing masked characters (dots). To the right of the password field is an eye icon for toggling visibility. At the bottom of the form is a blue 'Login' button.

6. TBI CDS should load the currently selected patient.

A screenshot of a web browser window titled 'TBI CDS Practitioner - Windows Internet Explorer'. The address bar shows the URL 'http://54.227.240.209/TBIPractitionerPort'. The browser's toolbar includes navigation buttons and a search icon. Below the toolbar, there is a navigation bar with 'Home', 'File', and 'Reports' menus. A sidebar on the left contains several icons representing different functions. The main content area displays the patient information: 'BCMA, EIGHTY-PATIENT, 80yo M'. Below this, there are two tabs: 'Instrument Hx' and 'Schedule'. The 'Instrument Hx' tab is active, showing a table with two columns: 'Instrument' and 'Date'. The table contains one entry: 'Satisfaction with Life Scale' with a date of '06/01/2015'. The page title 'Polytrauma Rehabil' is visible in the top right corner.

## Troubleshooting

Cannot see the TBI CDS Application in the CPRS tools menu.

1. Work with the site's administrators to determine whether you have access to the menu option.

Selected CPRS patient does not automatically load after logging in to TBI CDS.

1. Try to look up the patient in the TBI CDS application by clicking on the 'Lookup Patient' icon in the Toolbar, or the Lookup Patient button on the Home page, or the Patient Lookup item under the File menu in the Menu Bar.
2. Look up patient by last name or last name initial plus last four digits of the social security number (you will need to indicate which lookup method is being used by selecting the corresponding radio button).
3. Click 'Search'. Click on the LSSN of the patient to load patient record.
4. If patient record fails to load again, note the error message and open a ticket.
5. If the patient successfully loads, but error persists each time you log on to TBI CDS from CPRS, open a ticket.

When launched from CPRS, the login screen makes me select the region and site before logging in.

1. This happens when the site information passed to the TBI CDS web application does not match its lookup tables. Open a ticket describing the issue.
2. Work-Around: Select your region and site from the login screen, log in and manually lookup the patient

A website error appears from the CPRS tools menu click.

1. Close the browser and try the menu option again from CPRS
2. If the error continues, note the error message and open a ticket

Lost connection to MDWS/CPRS.

1. Log off the application, close the web browser and try the menu option again from the tools menu click.
2. If the error continues, note the error message and open a ticket.