DSSinc
VistAExperts

An Electronic Medical Record and Document Management Company

iMDsoft CIS-DataBridge [DSIHB 1.1]

INSTALLATION GUIDE

Installation Guide

Version Number 1.1   **Oct 2013**

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This build contains the CIS-DataBridge components for the IMDSOFT Anesthesia Record Keeper (ARK) and Intensive Care Unit (ICU) applications. IMDSOFT can either be an ARK or an ICU application or they can be both. The build allows IMDSOFT ARK and/or ICU to send and receive HL7 messages and interface with Vista using the DSS VistA Gateway.

Pre/Post-Installation Considerations

This build **requires** the following patches/builds:
DSIH 1.8 (or higher)*.

* DSIH 1.9 adds the ability to send BCMA and consult order messages. Without DSIH 1.9, those messages will not be sent.

For this build the installer will be prompted whether the site is a IMDsoft ARK, IMDsoft ICU or Both. Dependent upon the answer to the prompt will dictate the HL7 components that are setup. Unless ARK and/or ICU vendors are changing, then no special post-installation prompts apply. If ARK or ICU vendors are changing then the installer will be prompted to keep or replace the current vendor settings during installation.

A new prompt has been added that will ask the installer whether they want to use the Radiology 2.3 or Radiology 2.4 protocol based on the whether Radiology patch 47 (RA*5*47) is installed in the environment. If the site has not installed patch 47 then the installer will not be presented with this prompt and the post install process will use the Radiology 2.3 protocol.

NOTE
    If the site is going to use Radiology 2.4 HL7 messaging (patch RA*5*47 has been installed) and this is an existing DataBridge site then the installer needs to unsubscribe the 'DSIHB DATABRIDGE RAD CLIENT' from the DSIH DATABRIDGE RAD SERVER' before performing the installation. Also the DSIH DATABRIDGE RAD ROUTER needs to be unsubscribed from the RA RPT 2.3 event protocol before performing the install.

    Conversely, if the site is going to use Radiology 2.3 HL7 messaging (patch RA*5*47 has not been installed) and the site was utilizing RAD 2.3 HL7 messaging then unsubscribing DSIH DATABRIDGE RAD ROUTER 2.4 from the RA RPT 2.4 event protocol is required.

    If this is an existing DataBridge site that is rolling back from 2.4 to 2.3 then the installer needs to unsubscribe the 'DSIHB DATABRIDGE RAD CLIENT' from the DSIH DATABRIDGE RAD SERVER' before performing the installation. Also the DSIH DATABRIDGE RAD ROUTER 2.4 needs to be unsubscribed from the RA RPT 2.4 event protocol before performing the install.

For Existing CIS-DataBridge Sites:

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HL7 links should always be stopped before installing the DSIHC package. The pre/post installation will save off the link IP/Port settings, but to avoid message loss, the links themselves should be shut down.

There is a 'DSIH' Logical Link View that provides all of the IMDSOFT-specific CIS-DataBridge link names. Using the HL MONITOR option, enter a 'V' – Views, at the 'Select a Command:' prompt and then type 'DSIH' to view the DSIH logical links. The links are namespaced according to the following rule:

        DSIHBAapp and/or DSIHBIapp

        B = Vendor specific character (B =IMDSOFT)

        A = ARK and/or I = ICU

        app = VistA application for messages (ADT=ADT, AL1=Allergies, PS=Pharmacy, etc)

For New CIS-DataBridge Sites:
========================
The post-installation for new sites will preset the parameters and HL7 components required for processing, but link definitions (assigning ports and IP addresses) must be set up by the site.

IRM must assign the secondary menu option DSIHB VISTA GATEWAY and the DSIHH key allocations (DSIHH SAVLINK, DSIHH ICULINK, DSIHH ADMIN and DSIHH DATALINK) to the appropriate IMDSOFT users.

Installation Procedure

This build may be installed with users on the system.   It is recommended that users exit the CIS-DataBridge GUI while the install is taking place.

It is not necessary to disable any options in the DSIHB package. However, if this is an existing IMDSOFT CIS-DataBridge site and the installation is going to be queued to run after hours then do not queue the install to run when any of the following queues options may be executing
        DSIHH HL7 MESSAGE PURGE
        DSIHH AUTO CHECK LINKS
        DSIHH HL7 STATUS UPDATE

Installation will take less than 1 minute to complete.

The pre-installation saves off the DSIHB logical link port/IP information for restoration after the install for existing sites. The post-install defines the IMDSOFT CIS-DataBridge parameters, sets up and/or verifies the HL7 events and protocols for all sites and restores the logical link information for existing sites.

Software Retrieval:

The software is available from a DSS FTP directory. Sites will be provided the link, username and password to access the FTP site when they are authorized to install the software.

Below is a list of the files related to this package:

```
File Description                          File Name          FTP Mode
-----------------------------------------------------------------
CIS-DataBridge DSIHB zip file w/build    DSIHB_1_1.zip      (binary)
```

The DSIHB_1_1.zip file contains the following files:

```
File Name                Description
------------------       -------------------------------------------------
DSIHB_1_1.KID            KIDS file to install one KIDS build: DSIHB 1.1
DSIHB_1_1_ig.pdf         Installation guide
DSIHB_1_1_rn.pdf         Release notes
```

1. LOAD TRANSPORT GLOBAL

Retrieve the DSIHB_1_1.KID from the DSIHB_1_1.zip file.

Start up the Kernel Installation and Distribution System Menu
 [XPD MAIN]:

    Edits and Distribution ...
    Utilities ...
    Installation ...

Select Kernel Installation & Distribution System Option: INStallation
                            ---
    Load a Distribution
    Print Transport Global
    Compare Transport Global to Current System
    Verify Checksums in Transport Global
    Install Package(s)
    Restart Install of Package(s)
    Unload a Distribution
    Backup a Transport Global

 Select Installation Option: LOAD a Distribution

 When prompted for "Enter a Host File:", enter the full directory
 path where the host file DSIHB_1_1.KID was saved.
 (e.g.,SYS$SYSDEVICE:[ANONYMOUS]DSIHB_1_1.KID).

 Enter a Host File: DSIHB_1_1.KID

KIDS Distribution saved on Oct 9, 2013@15:18:55
Comment: DSIHB 1.1

This Distribution contains Transport Globals for the following
Package(s):
Build DSIHB 1.1
Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

   DSIHB 1.1
Use INSTALL NAME: DSIHB 1.1 to install this Distribution.

2. SELECT Optional INSTALLATION OPTION(s)

On the Installation Menu, the following are OPTIONAL:
a. Backup a Transport Global - This option will create a backup message of any routines
    exported with this patch. It will not backup any other changes such as DD's or templates.
b. Compare Transport Global to Current System - This option will allow the installer to view
    all changes that will be made when this patch is installed. It compares all components of
    this patch (routines, DD's, templates, etc.).
c. Verify Checksums in Transport Global - This option will allow the installer to ensure the
    integrity of the routines that are included the transport global.

3. INSTALL PACKAGE

When prompted for Install Name, choose **DSIHB 1.1**

a. Choose the **Install Package(s)** option to start the patch install.

b. Install Questions for DSIHB 1.1

    Want KIDS to Rebuild Menu Trees Upon Completion of Install? **NO//**
    Want KIDS to INHIBIT LOGONs during the install? **NO//**
    Want to DISABLE Scheduled Options, Menu Options, and Protocols? **NO//**

    Enter the Device you want to print the Install messages.
    You can queue the install by enter a 'Q' at the device prompt.
    Enter a '^' to abort the install.

    DEVICE: HOME//   [or select device for output]

```
Install Started for DSIHB 1.1 :
            Oct 9, 2013@16:19:47
```

```
Build Distribution Date: Oct 9, 2013

 Installing Routines:
               Oct 9, 2013@16:19:47

 Running Pre-Install Routine: PRE^DSIHBPST

 Installing PACKAGE COMPONENTS:

 Installing HL LOGICAL LINK

 Installing PROTOCOL

 Installing OPTION
               Oct 9, 2013@16:19:48

 Running Post-Install Routine: EN1^DSIHBPST


      Select one of the following:

           A          ARK
           I          ICU
           B          Both

PRODUCT TYPE: Both        [this is an example, please enter the correct type]

      Select one of the following:

           1          2.3
           2          2.4

Please select your facility's current Radiology HL7 version: ?

Enter 1 for Radiology HL7 2.3 or 2 for Radiology HL7 2.4.

      Select one of the following:

           1          2.3
           2          2.4

Please select your facility's current Radiology HL7 version: 2  2.4


DataBridge Protocols will be set up...
```

Restoring HL Logical Links Port and IP Address Information

Vendor Name is listed as: iMDsoft
Product Type is listed as: ARK
Vendor and associated Product Type are NOT Stored in the Parameters file
19670

Updating iMDsoft Components
Product Type - ARK set up for Vendor - iMDsoft

        Logical Link view DSIH is PRESENT
    Including logical links: SEQ#
            DSIHBAADT   1

        Logical Link view DSIH is PRESENT
    Including logical links: SEQ#
            DSIHBAAL1   2

        Logical Link view DSIH is PRESENT
    Including logical links: SEQ#
            DSIHBALAB   3

        Logical Link view DSIH is PRESENT
    Including logical links: SEQ#
            DSIHBARAD   6

        Logical Link view DSIH is PRESENT
    Including logical links: SEQ#
            DSIHBASCH   7

        Logical Link view DSIH is PRESENT
    Including logical links: SEQ#
            DSIHBAVITL   8

Configuring iMDsoft CLIENT SIU SERVERS AND CLIENTS PROTOCOLS:
    6796,   DSIHB-ARK DATABRIDGE SIU-S12 CLIENT
    6797,   DSIHB-ARK DATABRIDGE SIU-S13 CLIENT
    6798,   DSIHB-ARK DATABRIDGE SIU-S14 CLIENT
    6799,   DSIHB-ARK DATABRIDGE SIU-S15 CLIENT

Configuring iMDsoft CLIENT Surgery MessagePROTOCOLS:
    6800,   DSIHB-ARK DATABRIDGE SURG ORU CLIENT

Configuring iMDsoft CLIENT ORU SURGICAL PROTOCOLS:
    6800,   DSIHB-ARK DATABRIDGE SURG ORU CLIENT
DSIHB-ARK DATABRIDGE SURG ORU CLIENT is already a Subscriber on DSIH
DATABRIDGE SURG ORU SERVER

Configuring iMDsoft CLIENT ADT SERVERS AND CLIENTS PROTOCOLS:
      6801,   DSIHB-ARK DATABRIDGE ADT-A01 CLIENT
      6802,   DSIHB-ARK DATABRIDGE ADT-A02 CLIENT
      6803,   DSIHB-ARK DATABRIDGE ADT-A03 CLIENT
      6804,   DSIHB-ARK DATABRIDGE ADT-A04 CLIENT
      6805,   DSIHB-ARK DATABRIDGE ADT-A08 CLIENT
      6806,   DSIHB-ARK DATABRIDGE ADT-A11 CLIENT
      6807,   DSIHB-ARK DATABRIDGE ADT-A12 CLIENT
      6808,   DSIHB-ARK DATABRIDGE ADT-A13 CLIENT

Configuring iMDsoft CLIENT LAB SERVER AND CLIENT PROTOCOLS:
      6814,   DSIHB-ARK DATABRIDGE LAB CLIENT

Radiology Patch 47 is installed at this site
Based on the installers input the 2.4 RAD event was subscribed for
DataBridge.

Configuring iMDsoft CLIENT RAD CLIENT 2.4 PROTOCOLS:
      6809,   DSIHB-ARK DATABRIDGE RAD CLIENT

Configuring iMDsoft CLIENT VITALS CLIENT PROTOCOLS:
      6810,   DSIHB-ARK DATABRIDGE VITALS CLIENT

Configuring iMDsoft CLIENT ALLERGY CLIENTS PROTOCOLS:
      6811,   DSIHB-ARK DATABRIDGE ORU R01 AL1 CLIENT
      6812,   DSIHB-ARK DATABRIDGE ORU R01 ADAS CLIENT
      6813,   DSIHB-ARK DATABRIDGE ORU R01 ADREAC CLIENT

Deactivating iMDsoft Clients that are not needed

Setting menu DSIHB VISTA GATEWAY into menu tracker file 19672.1

Restoring HL Logical Links Port and IP Address Information

Vendor Name is listed as: iMDsoft
Product Type is listed as: ICU
Vendor and associated Product Type are NOT Stored in the Parameters file
19670

Updating iMDsoft Components
Product Type - ICU set up for Vendor - iMDsoft

        Logical Link view DSIH is PRESENT
     Including logical links: SEQ#
              DSIHBIADT   1

```
        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBIAL1           2


        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBILAB           3


        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBIORD           4


        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBIPS            5


        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBIRAD           6


        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBIVITL          8


        Logical Link view DSIH is PRESENT
     Including logical links:    SEQ#
              DSIHBIBCMA          9


Configuring iMDsoft CLIENT ADT SERVERS AND CLIENTS PROTOCOLS:
     6815,     DSIHB-ICU DATABRIDGE ADT-A01 CLIENT
     6816,     DSIHB-ICU DATABRIDGE ADT-A02 CLIENT
     6817,     DSIHB-ICU DATABRIDGE ADT-A03 CLIENT
     6818,     DSIHB-ICU DATABRIDGE ADT-A04 CLIENT
     6819,     DSIHB-ICU DATABRIDGE ADT-A08 CLIENT
     6820,     DSIHB-ICU DATABRIDGE ADT-A11 CLIENT
     6821,     DSIHB-ICU DATABRIDGE ADT-A12 CLIENT
     6822,     DSIHB-ICU DATABRIDGE ADT-A13 CLIENT


Configuring iMDsoft CLIENT LAB SERVER AND CLIENT PROTOCOLS:
     6824,     DSIHB-ICU DATABRIDGE LAB CLIENT


Configuring iMDsoft CLIENT PS ORDER CLIENT PROTOCOLS:
     6832,     DSIHB-ICU DATABRIDGE PS CLIENT


Configuring iMDsoft CLIENT LAB ORDER PROTOCOLS:
     6826,     DSIHB-ICU DATABRIDGE ORM-O01 LAB ORDER CLIENT


Configuring iMDsoft CLIENT DIET ORDER PROTOCOLS:
```

```
        6825,     DSIHB-ICU DATABRIDGE ORM-O01 FH ORDER CLIENT


Configuring iMDsoft CLIENT RADIOLOGY ORDER PROTOCOLS:
        6828,     DSIHB-ICU DATABRIDGE ORM-O01 RAD ORDER CLIENT


Configuring iMDsoft CLIENT NURSING ORDER PROTOCOLS:
        6827,     DSIHB-ICU DATABRIDGE ORM-O01 NUR ORDER CLIENT


Based on the installers input the 2.4 RAD event was subscribed for
DataBridge.


Configuring iMDsoft CLIENT RAD CLIENT 2.4 PROTOCOLS:
        6833,     DSIHB-ICU DATABRIDGE RAD CLIENT


Configuring iMDsoft CLIENT VITALS CLIENT PROTOCOLS:
        6834,     DSIHB-ICU DATABRIDGE VITALS CLIENT


Configuring iMDsoft CLIENT ALLERGY CLIENTS PROTOCOLS:
        6831,     DSIHB-ICU DATABRIDGE ORU R01 AL1 CLIENT
        6829,     DSIHB-ICU DATABRIDGE ORU R01 ADAS CLIENT
        6830,     DSIHB-ICU DATABRIDGE ORU R01 ADREAC CLIENT


Deactivating iMDsoft Clients that are not needed



 Updating Routine file...

 Updating KIDS files...

 DSIHB 1.1 Installed.
               Oct 9, 2013@16:19:51

 No link to PACKAGE file

 NO Install Message sent
```

Post-Installation Steps

1. On an existing IMDSOFT CIS-DataBridge site each logical link that was saved during the pre-install – IP address and port number defined – will be restored and their 'State' and 'Autostart' fields will be set to 'Enabled'.
2. For new sites, assign the secondary menu option DSIHB VISTA GATEWAY to the appropriate IMDSOFT users, edit each Logical Link to add the correct IP and Port# and then start the link.
   a. Adding the menu option can be accomplished via the Edit Existing Users option on the User Management menu.

     b. Allocating the key assignments can be accomplished via the Allocation of Security Keys option on the Key Management menu.

     c. Editing the IP/Port for the Logical Link can be accomplished via the 'HL EDIT LOGICAL LINKS' within the 'HL7 Main Menu' option. The procedures to perform this task are noted within the 'Logical Link edit' section below.

     d. Next start the link when messages are ready to be sent. This can be accomplished via 'START/STOP LINKS' within the 'HL7 Main Menu'. The procedures to perform this task are noted within the 'Enable Logical Link' section below

Logical Link edit:

Do this for each IMDSOFT Logical link!

```
From the HL7 Main Menu Option :

        Systems Link Monitor
        Filer and Link Management Options ...
        Message Management Options ...
        Interface Developer Options ...
        Site Parameter Edit

Select HL7 Main Menu Option: Filer and Link Management Options

    SM    Systems Link Monitor
    FM    Monitor, Start, Stop Filers
    LM    TCP Link Manager Start/Stop
    SA    Stop All Messaging Background Processes
    RA    Restart/Start All Links and Filers
    DF    Default Filers Startup
    SL    Start/Stop Links
    PI    Ping (TCP Only)
    ED    Link Edit
    ER    Link Errors ...

Select Filer and Link Management Options Option: ED  Link Edit

Select HL LOGICAL LINK NODE: DSIHBAAL1
```

```
                    HL7 LOGICAL LINK
   -------------------------------------------------------------------

         NODE: DSIHBAAL1

      INSTITUTION:

   MAILMAN DOMAIN:

        AUTOSTART: Enabled

       QUEUE SIZE: 10

         LLP TYPE: TCP              [enter here for next page]

       DNS DOMAIN:
   _____

   COMMAND:                        Press <PF1>H for help    Insert
```

```
-------------------TCP LOWER LEVEL PARAMETERS-------------------
                        DSIHBAAL1

      TCP/IP SERVICE TYPE: CLIENT (SENDER)
            TCP/IP ADDRESS: 10.4.33.101
               TCP/IP PORT: 1882
               TCP/IP PORT (OPTIMIZED):

     ACK TIMEOUT: 20              RE-TRANSMISION ATTEMPTS: 2
    READ TIMEOUT: 2          EXCEED RE-TRANSMIT ACTION: restart
     BLOCK SIZE:                              SAY HELO:
                                TCP/IP OPENFAIL TIMEOUT:
    STARTUP NODE:                            PERSISTENT: NO
       RETENTION: 30              UNI-DIRECTIONAL WAIT:

_____

    COMMAND:                     Press <PF1>H for help    Insert
```

Enable Logical Link:

From the HL7 Main Menu Option :

            Systems Link Monitor
            Filer and Link Management Options ...
            Message Management Options ...
            Interface Developer Options ...
            Site Parameter Edit

Select HL7 Main Menu Option: **Filer** and Link Management Options

        SM   Systems Link Monitor
        FM   Monitor, Start, Stop Filers
        LM   TCP Link Manager Start/Stop
        SA   Stop All Messaging Background Processes
        RA   Restart/Start All Links and Filers
        DF   Default Filers Startup
        SL   **Start/Stop Links**
        PI   Ping (TCP Only)
        ED   Link Edit
        ER   Link Errors ...

Select Filer and Link Management Options Option: **SL** Start/Stop Links

This option is used to launch the lower level protocol for the appropriate
device. Please select the node with which you want to communicate

Select HL LOGICAL LINK NODE: **DSIHBAAL1**
The LLP was last shutdown on SEP 13, 2013 10:39:22.
This LLP has been enabled!

Routine Summary

See DSIH_1_9_tm.pdf for the full Technical Manual for this build.

The following is a list of the routine(s) included in this build.
The second line of each routine will look as follows.
   ;1.1;DATA BRIDGE;;Jan 11, 2011;Build 1

Before and after checksums are available for existing IMDSOFT CIS-DATABRIDGE sites running DSIHB 1.1. Some sites may be on a previous DSIHB build so the 'Before' checksums may not match. If this is a new IMDSOFT CIS-DATABRIDGE site then 'Before' checksums will not be available. There is no Patch list since this is a full build and not a patch.

```
 Routine    Before Build   After Build
 --------   ------------   -----------
DSIHB                      224255
DSIHBIN                      6086
DSIHBPST                    73680
```

                    ═════
        SUPPORT CONTACT INFORMATION
                    ═════
    HELP DESK (561) 284-7200

    HOURS OF OPERATION 8:00 AM TO 7:00 PM (EST)
    AFTER-HOURS SUPPORT (561) 284-7200 Option 1