

An Electronic Medical Record and Document Management Company

PICIS CIS-DataBridge [DSIHD 1.3]

INSTALLATION GUIDE

Installation Guide

Version Number 1.3

Aug 2013

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Routine Summary	

This build contains the CIS-DataBridge components for the PICIS Anesthesia Record Keeper (ARK) and an Intensive Care Unit (ICU) application. It allows PICIS ARK and ICU applications 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.

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 'DSIHD 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 'DSIHD 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:

HL7 links should always be stopped before installing the DSIHD 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 PICIS-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:

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DSIHDapp

D = Vendor specific character (D = PICIS)

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

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.

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 DSIHD VISTA GATEWAY and the DSIHH key allocations (DSIHH SAVLINK, DSIHH ICULINK, DSIHH ADMIN and DSIHH DATALINK) to the appropriate PICIS 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 DSIHD package. However, if this is an existing PICIS 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 DSIHD logical link port/IP information for restoration after the install for existing sites. The post-install defines the PICIS 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

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```
CIS-DataBridge DSIHD zip file w/build DSIHD 1 3.zip (binary)
```

The DSIHD_1_3.zip file contains the following files:

File Name	Description					
DSIHD_1_3.KID	KIDS file to install one KIDS build: DSIHD 1.3					
DSIHD_1_3_ig.pdf	Installation guide					
DSIHD_1_3_rn.pdf	Release notes					

1. LOAD TRANSPORT GLOBAL

Retrieve the DSIHD_1_3.KID from the DSIHD_1_3.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 DSIHD_1_3.KID was saved. (e.g.,SYS\$SYSDEVICE:[ANONYMOUS]DSIHD_1_3.KID).

Enter a Host File: DSIHD_1_3.KID

KIDS Distribution saved on Mar 22, 2013@13:23:04

Comment: DSIHD 1.3

This Distribution contains Transport Globals for the following

Package(s):

Build DSIHD 1.3

Distribution OK!

Want to Continue with Load? YES//

Loading Distribution...

DSIHD 1.3

Use INSTALL NAME: DSIHD 1.3 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 **DSIHD 1.3**

- a. Choose the **Install Package(s)** option to start the patch install.
- b. Install Questions for DSIHD 1.3

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]

Installing PACKAGE COMPONENTS:

Installing HL LOGICAL LINK

Installing HL7 APPLICATION PARAMETER

Installing PROTOCOL

Installing OPTION

Mar 22, 2013@13:03:48

Running Post-Install Routine: EN1^DSIHDPST

Select one of the following:

A ARK

I ICU

B Both

O Other

PRODUCT TYPE: Both

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
DSIHDADT IEN: 323 Port: 1882 Addr: 10.4.33.101 Restored.
DSIHDPS IEN: 327 Port: 1992 Addr: 10.3.390.239 Restored.

Vendor Name is listed as: PICIS Product Type is listed as: BOTH Updating PICIS Components
Product Type - BOTH set up for Vendor - PICIS

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

Logical Link view DSIH is PRESENT Including logical links: SEQ#
DSIHDAL1 2

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

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

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

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

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

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

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

Configuring PICIS CLIENT SIU SERVERS AND CLIENTS PROTOCOLS:

6195, DSIHD DATABRIDGE SIU-S12 CLIENT 6196, DSIHD DATABRIDGE SIU-S13 CLIENT 6197, DSIHD DATABRIDGE SIU-S14 CLIENT 6198, DSIHD DATABRIDGE SIU-S15 CLIENT 6660, DSIHD DATABRIDGE SIU-S17 CLIENT

Configuring PICIS CLIENT Surgery Message PROTOCOLS: 6199, DSIHD DATABRIDGE SURG ORU CLIENT

Configuring PICIS CLIENT ORU SURGICAL PROTOCOLS: Aug 2013 DSIHD 1.3

6199,	DSI	HD DATA	BRIDO	GE SURG	ORU	CLIENT	
Configuring	PICIS	CLIENT	ADT	SERVERS	AND	CLIENTS	PROTOCOLS:

6200, DSIHD DATABRIDGE ADT-A01 CLIENT

6201, DSIHD DATABRIDGE ADT-A02 CLIENT

6202, DSIHD DATABRIDGE ADT-A03 CLIENT

DSIHD DATABRIDGE ADT-A04 CLIENT 6203,

6204, DSIHD DATABRIDGE ADT-A08 CLIENT

6205, DSIHD DATABRIDGE ADT-A11 CLIENT

6206, DSIHD DATABRIDGE ADT-A12 CLIENT

6207, DSIHD DATABRIDGE ADT-A13 CLIENT

Configuring PICIS CLIENT LAB SERVER AND CLIENT PROTOCOLS:

6208, DSIHD DATABRIDGE LAB CLIENT

Configuring PICIS CLIENT PS ORDER CLIENT PROTOCOLS:

6209, DSIHD DATABRIDGE PS CLIENT

Configuring PICIS CLIENT BCMA CLIENT PROTOCOLS:

DSIHD DATABRIDGE BCMA CLIENT

Configuring PICIS CLIENT LAB ORDER PROTOCOLS:

6211, DSIHD DATABRIDGE ORM-001 LAB ORDER CLIENT

Configuring PICIS CLIENT DIET ORDER PROTOCOLS:

6210, DSIHD DATABRIDGE ORM-001 FH ORDER CLIENT

Configuring PICIS CLIENT RADIOLOGY ORDER PROTOCOLS:

6213, DSIHD DATABRIDGE ORM-001 RAD ORDER CLIENT

Configuring PICIS CLIENT NURSING ORDER PROTOCOLS:

6212, DSIHD DATABRIDGE ORM-001 NUR ORDER CLIENT

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

Configuring PICIS CLIENT RAD CLIENT PROTOCOLS:

DSIHD DATABRIDGE RAD CLIENT

Configuring PICIS CLIENT VITALS CLIENT PROTOCOLS:

6215. DSIHD DATABRIDGE VITALS CLIENT

Configuring PICIS CLIENT ALLERGY CLIENTS PROTOCOLS:

6216, DSIHD DATABRIDGE ORU R01 AL1 CLIENT

DSIHD DATABRIDGE ORU R01 ADAS CLIENT 6217,

6218, DSIHD DATABRIDGE ORU R01 ADREAC CLIENT

Deactivating PICIS Clients that are not needed

Post-Installation Steps

- 1. On an existing PICIS CIS-DataBridge site each logical link that was saved during the preinstall – 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 DSIHD VISTA GATEWAY to the appropriate PICIS 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 PICIS 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: DSIHDADT

HL7 LOGICAL LINK

NODE: DSIHDADT

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

```
------PARAMETERS-----TCP LOWER LEVEL PARAMETERS-----
                    DSIHDADT
  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
                       EXCEED RE-TRANSMIT ACTION: restart
 READ TIMEOUT: 2
   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
            Systems Link Monitor
      SM
      FM
           Monitor, Start, Stop Filers
           TCP Link Manager Start/Stop
           Stop All Messaging Background Processes
            Restart/Start All Links and Filers
           Default Filers Startup
      SL
           Start/Stop Links
      PΙ
           Ping (TCP Only)
      ΕD
           Link Edit
            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: DSIHDADT
The LLP was last shutdown on DEC 01, 2011 15:29:07.
This LLP has been enabled!
```

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.

;;1.3;DATA BRIDGE;;Apr 6, 2012;Build 2

Before and after checksums are available for existing PICIS CIS-DATABRIDGE sites running DSIHD 1.3. Some sites may be on a previous DSIHD build so the 'Before' checksums may not match. If this is a new PICIS 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
DSIHD			22426	57
DSIHDIN			609	98
DSIHDPST			7381	L 4

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