DSSinc

VistAExperts

An Electronic Medical Record and Document Management Company

G.E. MEDICAL CIS-DataBridge [DSIHE 1.1]

INSTALLATION GUIDE

Installation Guide

Version Number 1.1   **Apr 2011**

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This build contains the CIS-DataBridge components for the G.E. MEDICAL Anesthesia Record Keeper (ARK) application. It allows G.E. MEDICAL ARK 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).

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.

For Existing CIS-DataBridge Sites:
 ==============================
HL7 links should always be stopped before installing the DSIHE 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 G.E. MEDICAL-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:

    DSIHE𝒜app
    E = Vendor specific character (E =G.E. MEDICAL)
    𝒜 = ARK
    app = VistA application for messages (ADT=ADT, AL1=Allergies, PS=Pharmacy, etc)

Unless ARK vendors are changing, then no special post-installation prompts apply. If ARK 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 DSIHE VISTA GATEWAY and the DSIHH key allocations (DSIHH SAVLINK, DSIHH ICULINK, DSIHH ADMIN and DSIHH DATALINK) to the appropriate G.E. MEDICAL 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 DSIHE package. However, if this is an existing G.E. MEDICAL 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 queue 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 DSIHE logical link port/IP information for restoration after the install for existing sites. The post-install defines the G.E. MEDICAL 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 DSIHE zip file w/build   DSIHE_1_1.zip     (binary)
```

The DSIHE_1_1.zip file contains the following files:

```
File Name            Description
-----------------    ------------------------------------------------
DSIHE_1_1.KID        KIDS file to install one KIDS build: DSIHE 1.1
DSIHE_1_1_ig.pdf     Installation guide
DSIHE_1_1_rn.pdf     Release notes
```


1. LOAD TRANSPORT GLOBAL

Retrieve the DSIHE_1_1.KID from the DSIHE_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 DSIHE_1_1.KID was saved.
 (e.g.,SYS$SYSDEVICE:[ANONYMOUS]DSIHE_1_1.KID).
```

Enter a Host File: DSIHE_1_1.KID

KIDS Distribution saved on Jan 11, 2011@13:18:55
Comment: DSIHE 1.1

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

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

 DSIHE 1.1
Use INSTALL NAME: DSIHE 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 **DSIHE 1.1**

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

b. Install Questions for DSIHE 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 DSIHE 1.1 :
               Jan 11, 2011@18:31:44

Build Distribution Date: Jan 11, 2011

 Installing Routines:
               Jan 11, 2011@18:31:44

 Running Pre-Install Routine: PRE^DSIHEPST
Saving HL Logical Links Port and IP Address Information
  DSIHEALAB   IEN: 334  Port: 10011C Addr: 10.4.38.191 Saved.


 Installing PACKAGE COMPONENTS:

 Installing HL LOGICAL LINK

 Installing HL7 APPLICATION PARAMETER

 Installing PROTOCOL

 Installing OPTION
               Jan 11, 2011@18:31:44

 Running Post-Install Routine: EN1^DSIHEPST

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
   DSIHEALAB    IEN: 334  Port: 10011C Addr: 10.4.38.191 Restored.


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


Updating GE MEDICAL Components
Product Type - ARK set up for Vendor - GE MEDICAL


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


       Logical Link view DSIH is PRESENT
   Including logical links:    SEQ#
           DSIHEAAL1         2


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


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


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


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


Configuring GE MEDICAL CLIENT SIU SERVERS AND CLIENTS PROTOCOLS:
    6217,    DSIHE-ARK DATABRIDGE SIU-S12 CLIENT
    6218,    DSIHE-ARK DATABRIDGE SIU-S13 CLIENT
    6219,    DSIHE-ARK DATABRIDGE SIU-S14 CLIENT
    6220,    DSIHE-ARK DATABRIDGE SIU-S15 CLIENT
```

```
Configuring GE MEDICAL CLIENT ORU SURGICAL PROTOCOLS:
    6221,     DSIHE-ARK DATABRIDGE SURG ORU CLIENT
    6221,     DSIHE-ARK DATABRIDGE SURG ORU CLIENT


Configuring GE MEDICAL CLIENT ADT SERVERS AND CLIENTS PROTOCOLS:
    6222,     DSIHE-ARK DATABRIDGE ADT-A01 CLIENT
    6223,     DSIHE-ARK DATABRIDGE ADT-A02 CLIENT
    6224,     DSIHE-ARK DATABRIDGE ADT-A03 CLIENT
    6225,     DSIHE-ARK DATABRIDGE ADT-A04 CLIENT
    6226,     DSIHE-ARK DATABRIDGE ADT-A08 CLIENT
    6226,     DSIHE-ARK DATABRIDGE ADT-A08 CLIENT
    6227,     DSIHE-ARK DATABRIDGE ADT-A11 CLIENT
    6228,     DSIHE-ARK DATABRIDGE ADT-A12 CLIENT
    6229,     DSIHE-ARK DATABRIDGE ADT-A13 CLIENT


Configuring GE MEDICAL CLIENT LAB SERVER AND CLIENT PROTOCOLS:
    6314,     DSIHE-ARK DATABRIDGE LAB CLIENT


Configuring GE MEDICAL CLIENT ORDER CLIENTS PROTOCOLS:

Configuring GE MEDICAL CLIENT RAD CLIENT PROTOCOLS:
    6235,     DSIHE-ARK DATABRIDGE RAD CLIENT
    6235,     DSIHE-ARK DATABRIDGE RAD CLIENT


Configuring GE MEDICAL CLIENT VITALS CLIENT PROTOCOLS:
    6236,     DSIHE-ARK DATABRIDGE VITALS CLIENT


Configuring GE MEDICAL CLIENT ALLERGY CLIENTS PROTOCOLS:
    6237,     DSIHE-ARK DATABRIDGE ORU R01 AL1 CLIENT
    6238,     DSIHE-ARK DATABRIDGE ORU R01 ADAS CLIENT
    6239,     DSIHE-ARK DATABRIDGE ORU R01 ADREAC CLIENT


Configuring GE MEDICAL CLIENT P03 IN PROTOCOLS:
    6084,     DSIH DATABRIDGE IN DFT-P03 CLIENT


Configuring GE MEDICAL CLIENT IN VITALS PROTOCOLS:
    6298,     DSIH DATABRIDGE VITALS-IN CLIENT


Configuring GE MEDICAL APT CLIENTS



 Updating Routine file...


 Updating KIDS files...


 DSIHE 1.1 Installed.
               Jan 11, 2011@18:31:49


 No link to PACKAGE file
```

```
NO Install Message sent
```

Post-Installation Steps

1. On an existing G.E. Medical 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 DSIHE VISTA GATEWAY to the appropriate G.E. Medical 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 G.E. Medical 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: **DSIHEAADT**

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

              NODE: DSIHEAADT

       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--------------------
                        DSIHEAADT

     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: **DSIHEAADT**
The LLP was last shutdown on DEC 01, 2009 15:29:07.
This LLP has been enabled!

Routine SumApry

See DSIH_1_5_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 G.E. MEDICAL CIS-DATABRIDGE
sites running DSIHE 1.1. Some sites may be on a previous DSIHE build so the 'Before'
checksums may not match. If this is a new G.E. MEDICAL 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
--------   ------------   -----------
DSIHE       224249          224273
DSIHEIN       6080            6104
DSIHEPST     24927           73881
```

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