

**Hach WIMS Direct Server-Side Interface to Random Number  
Generator**

**Q11997 Documentation**



***Be Right™***

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# 1 - Documentation : Introduction

## 1.1 Interface Introduction

The interface software transfers randomly generated numbers and/or strings to the Hach WIMS Database. Data is randomized, summarized based on user specified options, and the summarized results are stored in the Hach WIMS database.

[Reference ID: 12077]

## 1.2 Software Requirements

Interface is supported and can be installed **only** on one of the following Microsoft Windows versions :

- Microsoft Windows 2000 Service Pack 4
- Microsoft Windows XP 32-bit Service Pack 2
- Microsoft Windows XP 32-bit Service Pack 3
- Microsoft Windows Vista 32-bit
- Microsoft Windows Vista 64-bit
- Microsoft Windows Vista 32-bit Service Pack 1
- Microsoft Windows Vista 64-bit Service Pack 1
- Microsoft Windows 2003 Server 32-bit Service Pack 1
- Microsoft Windows 2003 R2 Server 32-bit Service Pack 2
- Microsoft Windows 2003 Server 64-bit Service Pack 1
- Microsoft Windows 2003 R2 Server 64-bit Service Pack 2
- Microsoft Windows 2008 32-bit
- Microsoft Windows 2008 64-bit
- Microsoft Windows 2008 32-bit Service Pack 1
- Microsoft Windows 2008 64-bit Service Pack 1

[Reference ID: 12142]

## 2 - Documentation : How to

### 2.1 \_ Step-by-Step Instructions on How to Configure Interface

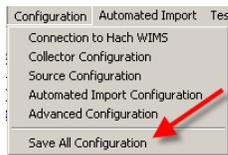
You will need to follow these steps in order to configure your interface :

1. You must have **Hach WIMS Database Management System** installed and running. This can be running from anywhere on your network, but can also be running on the same computer as your interface.
2. You must have **Hach WIMS Client** installed. Make sure you can log into Hach WIMS Database Server using Hach WIMS Client.
3. Run your interface in Interactive mode by clicking on its entry in your windows Start Menu.
4. Configure a connection to your Hach WIMS Server. Use **Configuration - Connection to Hach WIMS**(See Section 3.7) to do this.
5. Make sure you are properly licensed to run this interface. In Main Menu, select **Support -> Am I licensed for this Interface.**



If you pass this test, continue to step 6. If not, contact Hach Company Sales at 800-677-0067.

6. Upload interface definition file to Hach WIMS Server. Use **Utilities - Upload definition file to Hach WIMS**(See Section 3.15) to do this.
7. You will need to assign a collector record to your interface. First the record must be created. You will need to configure **Hach WIMS Client for a server side interface**(See Section 2.4) .
8. Now you are ready to assign the collector record created in *the previous step* to your interface. Use **Configuration - Collector Configuration**(See Section 3.6) to do this.
9. You need to link at least one Hach WIMS variable to the chosen collector record.
10. Configure the source so that interface can read from the source system.  
Locate the '**Configuration -> Source Configuration**' article in the '**Topics specific for operation of Interface**' chapter to gain instructions on how to do it.
11. Save all configuration Settings by clicking on **Configuration -> Save All Configuration.**



12. You are now ready to test the interface. Use **Test - Test Import All**(See Section 3.14) to do this

Furthermore, You may want to configure **Automated Import.** Use **Configuration - Automated Import Configuration**(See Section 3.5) to do this.

## 2.2 Change Configuration Protection Password

Use this screen to set a new configuration protection password.



Requiring a password for configuration changes will prevent unauthorized or accidental tampering with your configuration from within the interactive mode.

### NOTE:

**The default password is '12345'. If you configure the interface to use a password and later remove the password check, it will reset to '12345' again.**

[Reference ID: 12055]

## 2.3 Configuration is Password Protected

The configuration is password protected if you changed it in **Change Configuration Protection Password**. You must enter the correct password in order to save your changes.

See Advanced Configuration(See Section 3.4) if you want to disable the password protection.

### NOTE:

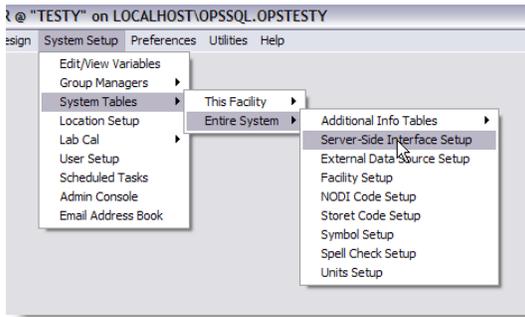
**If your configuration is protected with a password, you must know the password before you can disable the password check.**

[Reference ID: 12056]

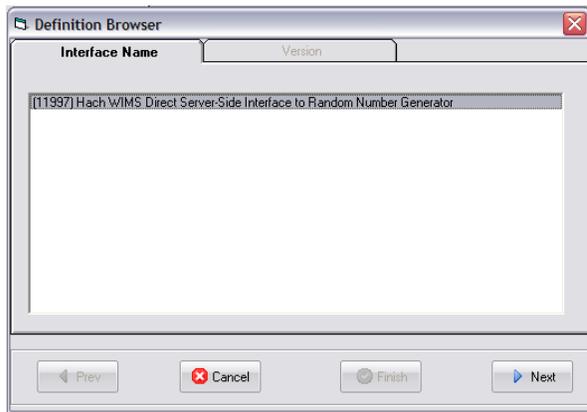
## 2.4 Configure the Hach WIMS Client for a Server-Side Interface

In order to use a direct server-side interface, you must do the following:

1. Start your Hach WIMS Client and navigate to the **System Setup -> System Tables -> Entire System -> Server-Side Interface Setup** menu selection:

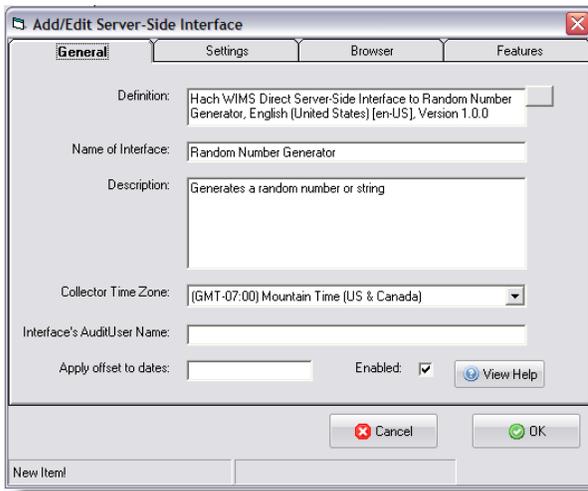


2. If the "Server-Side Interface Setup" screen shows no interfaces, or the one you want to configure is not shown, you have to:
  1. If you have the G2 definition uploaded, click the **New** button. To determine if you have the definition uploaded, click **New** and see if it appears in the list of interfaces.
  2. If you do not have the definition uploaded, uploaded the definition first. Click the **New Definition** button and navigate to the g2\_server\_lu file. (Alternatively, you can select **Utilities - Upload Definition File to Hach WIMS**(See Section 3.15) )
3. With the definition uploaded (or present), click the **New** button and create an instance of the server side interface. You can have multiple interface sources for the same definition.



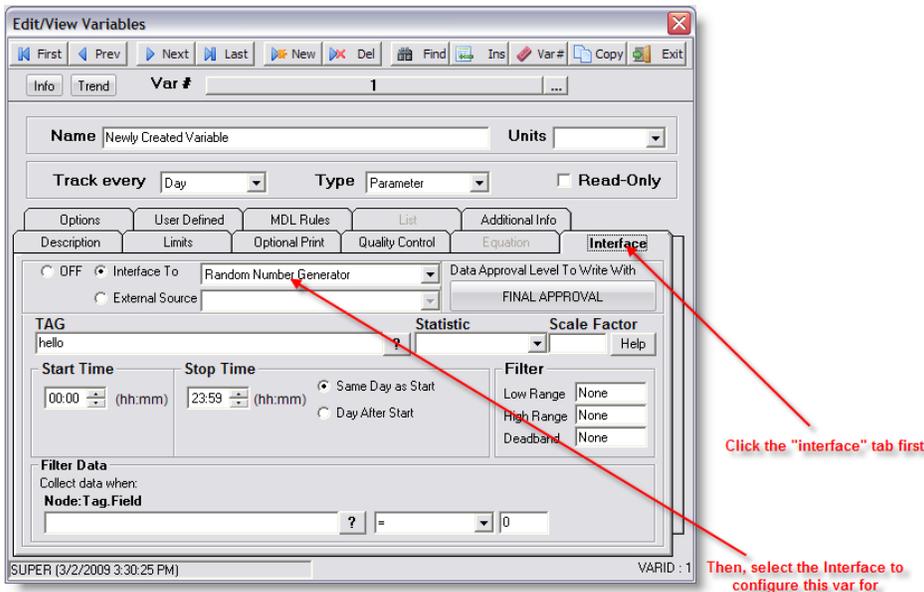
In this example, we want a new instance of the Random Number Generator interface. Select the name, click **Next**, and select the version.

4. Configure the interface:



Make note of the "Name of Interface" field - this is how your interface will be identified. In this case - it is "Random Number Generator". Fill in a "Description" and select the "Collector Time Zone", in this case, it is set to Mountain Time (US & Canada). Click **OK** to create the interface record.

5. Configure Browser - Click on the **Browser** tab and enter the requested information to allow the Hach WIMS Client the ability to browse tags from the source system. In some cases, you will need to install an OLE DB driver, on the Hach WIMS Client computer, that will allow communications to the source system. If it is impossible to configure this option, simply uncheck the Enable button on the **Browser** tab.
6. Go to **System Setup -> Edit/View Variables**.
7. Go to the variable you wish to configure for storing interface data:



Click the **Interface** tab on the variable you are configuring, then click the **Interface To** radio button and select the interface needed for this variable. The area below will fill up with the settings needed to finish configuring this variable.

8. For detailed instructions on configuration of variables, look for the '**Supported Variable Configurations For Interface**' article in the '**Topics specific to operation of Interface**' chapter.

[Reference ID: 12041]

## 2.5 Hach WIMS Super User Credentials

To enable this feature, select **Configuration -> Advanced Configuration**(See Section 3.4) . Then check the "**Require Hach WIMS Super User Login Credentials to Import Data In Interactive Mode**" setting.

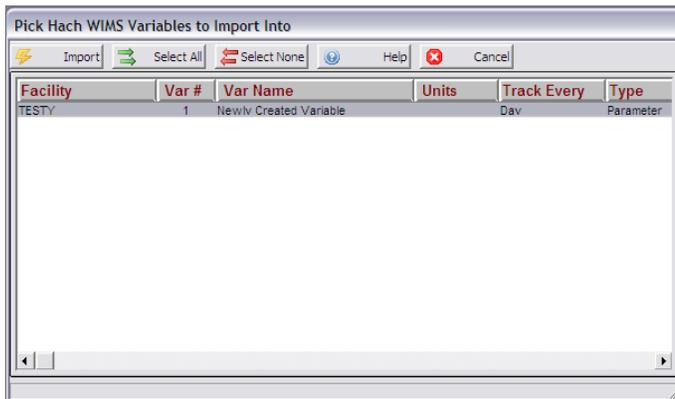
You must provide the correct user name and password in order to import data in interactive mode.

Contact your Hach WIMS Administrator for help if you do not know the username and/or password.

[Reference ID: 12057]

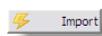
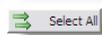
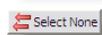
## 2.6 Pick Hach WIMS Variables to Import Into

You must pick the variables you wish to import data for.



*HINT: You can hold the CTRL or CTRL/SHIFT buttons down when clicking in order to select multiple entries*

### Buttons:

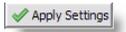
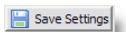
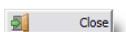
-  Import    Import data for the selected variables.
-  Select All    Select all variables in the list.
-  Select None    Select no variables - deselects all variables from the list.

All other buttons are explained in Using Common Buttons(See Section 2.7) .

[Reference ID: 12059]

## 2.7 Using Common Buttons

Common Hach WIMS Interface Buttons:

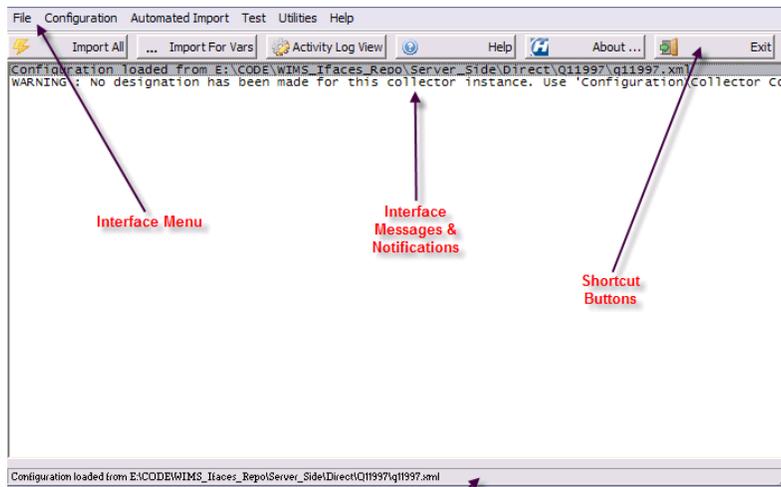
-  Displays help for the current interface screen.
-  Applies the current settings.
-  Attempts to apply the current changes and save them permanently. The save will fail if the settings cannot be applied first.
-  Closes the current window - no changes are saved.
-  Cancel the current activity/operation.

[Reference ID: 12039]

## 2.8 Using Main Interface Screen

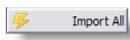
This is the main interface interactive screen.

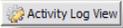
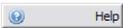
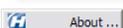
When running in interactive mode, you can set the various interface configuration settings, monitor & control the interface service, as well as interactively collect data.



The main parts of the of the screen of interest are:

- **Main Menu**
- **The Shortcut Buttons:**

 Import all data(See Section 3.9) .

	Import data for selected variables(See Section 3.10) .
	Monitor service activity(See Section 3.1) .
	Display help for the current window.
	Display general interface information.
	Exit the interactive interface session.

- The **Interface Messages & Notification** area - the white background area displays scrolling text regarding the interface's activity. All manner of data is logged here, including data collection status, errors, warnings and other general information regarding the interface's current activity.

Depending on the **Verbosity**(See Section 3.4) level set, you may or may not see all information.

If there is a directory called "Log" in the interface directory, the interface will also log to a text file of the form:

<mm\_dd\_yyyy\_\_hh\_mm\_ss\_interactive.log>

E.g., if the current date is 2/26/2009 and the current time is 3:02:13 PM, the file will be called:

02\_26\_2009\_\_15\_02\_13\_interactive.log.

- The status bar, at the bottom of the screen, displays miscellaneous information regarding the interface.

[Reference ID: 12036]

## 2.9 Using Select Date Range to Import

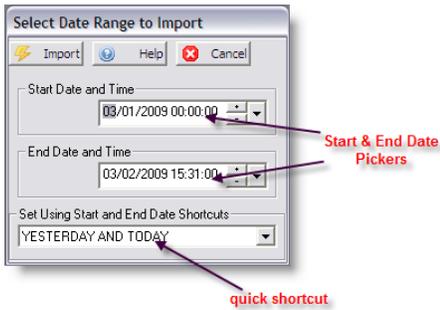
When importing data for one or more specified variables, you have to specify the date range of the source data you want to get.

You can do this in 2 ways:

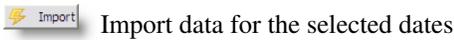
1. Use both the **Start & End Date Pickers**

- OR -

2. Use a start/end date **quick shortcut**:



Buttons:

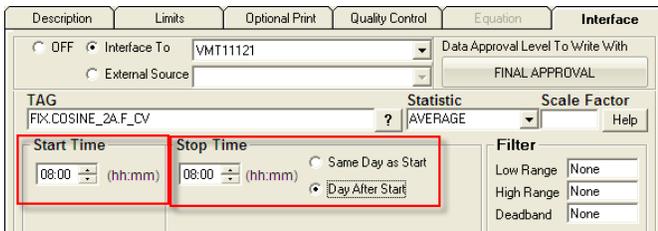


Other buttons are described in **Using Common Buttons**(See Section 2.7) .

**Principle 1:** Data will be imported based on the **Start and End Date and Time** and how the variable's **Stop Time** is set up. The **Stop Time** must fall within the date range requested.

**Principle 2:** Data is stored on the date and time of the variable's **Start Time**.

For example: We set a variable with **Start Time** of 08:00 and a **Stop Time** of 08:00, and select **Day After Start** as shown below.



Then I run the interface to pull data for March 3, 2009 00:00:00 to March 4, 2009 08:01:00.



The interface will return a value for March 2 and March 3. Why? The stop time is our requested date range starting on March 3, 2009 with a stop time of 8 AM. The stop time is computed to March 3, 2009 08:00:00. Since we selected the stop as day

after start, the start time is March 2, 2009 at 08:00:00. According to principle #2, the data point is stored on the start time.

So for our example:

Requested Date	Start Date and Time	Stop Date and Time
March 3, 2009	March 2, 2009 08:00:00	March 3, 2009 08:00:00
March 4, 2009	March 3, 2009 08:00:00	March 4, 2009 08:00:00

If we had set our date range from March 3, 2009 00:00:00 to March 4, 2009 07:59:59, then the interface would return only the first record, because stop time of March 4, 2009 08:00:00 in the second record, is past the end date and time of our range.

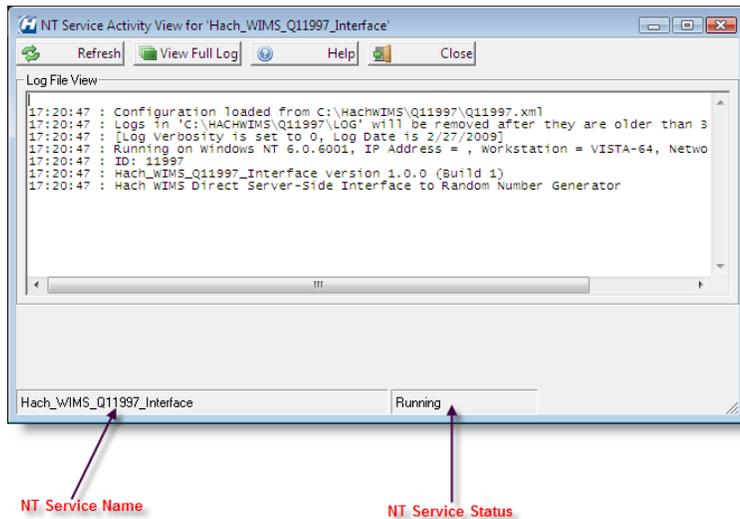
If we had set our date range from March 3, 2009 08:01:00 to March 4, 2009 08:01:00, then the interface would return only the second record, because the Stop Date and Time of the first record (March 3, 2009 08:00:00) does not fall within our start and end date range.

[Reference ID: 12058]

## 3 - Documentation : Main Menu

### 3.1 Automated Import - Activity Log View

The **Activity Log View** lets you view the interface NT Service log.



#### Buttons:

 Force refresh of the service log view. To shorten the refresh interval, see **Configuration - Advanced Configuration**(See Section 3.4) .

 View the full service log.

The rest of the buttons are explained in **Using Common Buttons**(See Section 2.7) .

#### NOTE:

**If the log cannot be read, make sure the service name is correct and that it's running. See Automated Import - Status and Control**(See Section 3.3) **on how to start the service if it's not running (assuming the service name is correct) and see Configuration - Advanced Configuration**(See Section 3.4) **on how to view/change the service name.**

[Reference ID: 12049]

### 3.2 Automated Import - Modify Last Ran Dates

This screen lets you modify the per-facility Last-Ran Date of the interface.

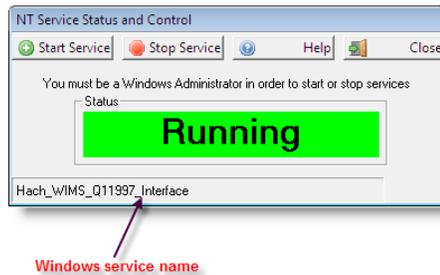
#### NOTE:

**This is different than the default Last-Ran Date described in Configuration - Automated Import Configuration**(See Section 3.5) , **which is the default Last-Ran Date for ALL facilities that have not had any data imported.**

[Reference ID: 12051]

### 3.3 Automated Import - Status and Control

The **Status and Control** screen lets you configure and monitor the state of interface service:

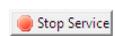


The name of the service is displayed in the bottom left (see screenshot) corner of the screen. This is the name of the service that the interactive program is configured to monitor.

If this is NOT the name of the service, you can change it from the **Configuration - Advanced Configuration**(See Section 3.4) screen.

#### Buttons:

 Start the service, if it is not running.

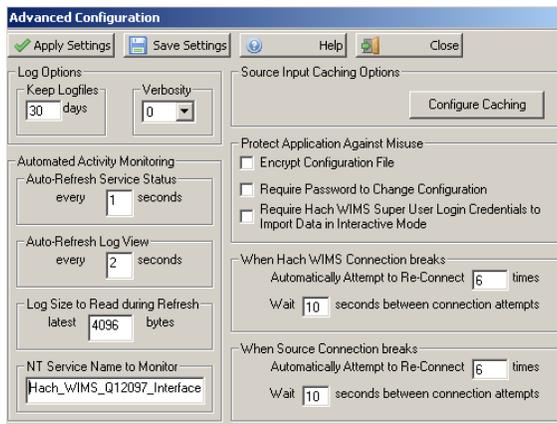
 Stop the service, if it is running.

All other buttons are explained in **Using Common Buttons**(See Section 2.7) .

[Reference ID: 12047]

### 3.4 Configuration - Advanced Configuration

The **Advanced Configuration** screen can be used to configure various advanced interface settings:



- **Log Options:**

- ◆ Keep Logfiles - the number of days to keep log files in the Log folder, delete log files older than the number of days specified.
- ◆ Verbosity - the higher this number, the more messages will be logged in the log file and the log window. This is usually meant for trouble-shooting purpose.

- **Source Input Caching** - button is enabled when interface supports source input caching. Lets one specify caching conditions. Go to Source Cache Input Configuration(See Section 3.11) for more information

- **Automated Activity Monitoring** - use this option to configure the Automated Activity (service mode of the interface) options:

- ◆ Auto-Refresh Service Status - when displaying the **Automated Import - Status and Control**(See Section 3.3) screen - how long to wait between status refreshes.
- ◆ Auto-Refresh Log View - when displaying the **Automated Import - Activity Log View**(See Section 3.1) - the interval of time to wait before refreshing the log view.
- ◆ Log Size to Read during Refresh - the maximum number of characters to actually read in when refreshing the log view.

- **NT Service Name to Monitor** - the name of the NT service under which the interface runs. The default is usually fine. **Do NOT change this unless instructed by a Hach Support Engineer, or unless you installed the service under a different name and know what you are doing.**

- **Protect Application Against Misuse** - if you want more security in your interface configuration, you can configure:

- ◆ Encrypt Configuration File - encrypt the contents of the interface configuration file to preven unauthorized tampering.
- ◆ Required Password to Change Configuration - require a password every time the user requests a configuration change. If no password is yet set, you are prompted to supply one.



- ◆ Require Hach Wims Super User Login ... - to prevent someone from accidentally overwriting data when running in interactive mode, you can set this option to require people to enter in a super-user ID and password before importing.
- **When Hach/Source Wims Connection Break** - the number of times to attempt to restore the connection to Hach WIMS/Source and the amount of seconds to wait between attempts.

### Buttons:

The buttons are explained in Using Common Buttons(See Section 2.7) .

[Reference ID: 12045]

## 3.5 Configuration - Automated Import Configuration

Each interface can be configured to run as a service. This is when you want to schedule an automatic retrieval of data, without user intervention.

The **Automated Import Configuration** screen allows you to configure the schedule, whether to submit calculation requests, the Last-Ran Date, and the import operation mode:

- **Automated Import Schedule** - configure when the interface service is scheduled to run:
  - ◆ **Daily** -the interface will run ONCE per day, at the specified schedule. E.g., to run it at 2:30 am, you would enter "2" into the hours box and "30" into the minutes box. Note that time is entered in "military" format. To enter 4:45 pm, you would enter "16" into the hours box, NOT 4.
  - ◆ **Hourly** - the interface will run **every hour** at the specified minute after the hour.
- **Calculations After Automated Import** - select this option if you would like the Hach WIMS AdoCalc service to recalculate all variables within **every** facility after an import operation completes.
- **Default Last Run Date** - this is the point in time from which the interface service will try to retrieve data, up until the current point in time. After a successful run, the current time will become the last run time. By default, this is set to one day prior to the current day.

E.g., assume today is February 25, 2009, if you have just installed the interface and have 3 months of historical data you want imported into Hach WIMS. You should enter November 25, 2008 as the Last-Run Date (3 months prior to February 25th). Once the interface completes its run, the Last-Run Date will be set to February 25, 2009 automatically. The next time it runs (assuming it runs Daily), February 26, 2009, it will only fetch **one** day's worth of data.

- **Constant to Add to Start Date Each Time Import Runs** - Enter the number of minutes to add to the Start Date when the interface runs in automatic mode. This allows the interface to capture data from previous runs that might not have been available at that time. For example, if the interface runs at 2 AM but not all the data gets entered right after midnight. The two hours has no data initially, but later on the day the data becomes available. We can set this value to 120 (120 minutes = 2 hours) so that the interface will run at 2 AM every morning but will look up to midnight for data.
- **Import Operation Mode** -Real mode imports data into Hach WIMS where as Test does not actually import data, but tests the query capability and timing of the interface.

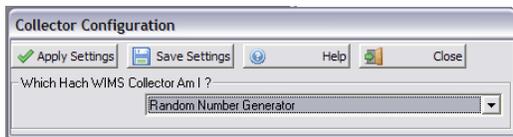
#### Buttons:

The buttons are explained in Using Common Buttons(See Section 2.7) .

[Reference ID: 12044]

## 3.6 Configuration - Collector Configuration

The **Collector Configuration** is the place where you configure the source of your data - the SCADA/LIMS system that holds the data you want to import.



**NOTE: Before you can configure the collector, you MUST configure the Connection to Hach WIMS(See Section 3.7) and you must setup the Hach WIMS client(See Section 2.4) .**

Select **Which Hach WIMS Collector Am I** for this interface. The names that appear in the drop-down box are the ones that were configured in the Hach WIMS Client. This name is then tied to this interface and is unique.

#### Buttons:

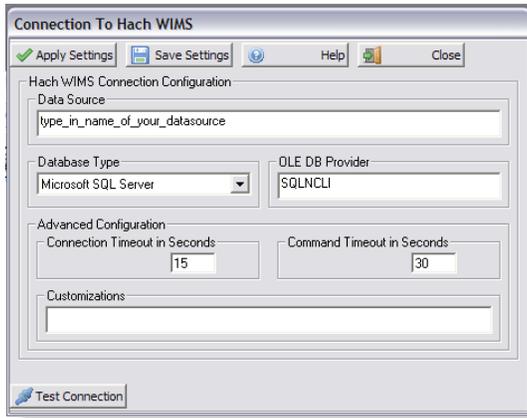
The buttons are explained in Using Common Buttons(See Section 2.7) .

[Reference ID: 12042]

## 3.7 Configuration - Connection To Hach WIMS

The **Connection to Hach WIMS** screen lets you configure how the interface will connect to Hach WIMS client.

This is one of the first items you configure when setting up a new interface.



- **Data Source** - this field specifies, in loose terms, the "Database/Datasource server name" where your Hach WIMS system is configured to store data. "Database/Datasource server name" means different things depending on whether you are running against Oracle or MS SQL:
  - ◆ Oracle - you can type in either the Oracle TNS name or a string in the form of *host:port/SID*, if using the Oracle HOSTNAME adapter.
  - ◆ MS SQL - this is in the form of *host\sql\_instance\_name*
- **Database Type** -select the appropriate type of your Hach WIMS database
- **OLE DB Provider** - this specifies which "database driver" the interface will use when connecting to Hach WIMS and again depends on the database type:
  - ◆ Oracle - the default string should be fine
  - ◆ MS SQL - if connecting to MS SQL 2005 or later, use the native client to connect. Specify SQLNCLI as the provider. **NOTE: You will need to have the Microsoft SQL Native Client installed for this to work.** If connecting to MS SQL 2000, specify SQLOLEDB as the provider.
- **Connection Timeout in Seconds** - how many seconds the program should wait when establishing a connection to the Hach WIMS database before aborting.
- **Command Timeout in Seconds** - specifies how many seconds the program should wait for a query to complete before aborting the operation.

**WARNING: Large values for these two settings can cause the program to not respond for a long period of time! Do NOT use 0 unless you know what you are doing - it will cause the program to wait indefinitely, and if your database server is down, the only way to cancel the operation is to forcefully quit the program.**

- **Customizations** - this should be left empty unless you were told otherwise by a Hach Support Engineer or you know what you are doing.

Buttons:

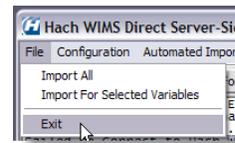


Test to see if the connection settings are valid and the interface is able to connect to Hach WIMS client. This will NOT **Apply** or **Save** the settings.

The other buttons are explained in Using Common Buttons(See Section 2.7) .

[Reference ID: 12037]

### 3.8 File - Exit



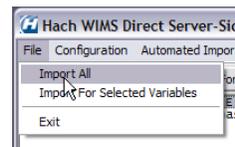
Terminates the interactive interface program.

**NOTE:**

Clicking "Exit" only closes the interactive interface session. Since the interface can be configured to run as a Windows Service, clicking "Exit" does NOT affect this service, it will continue collecting data. The service can be scheduled to collect data anytime, whether a user is logged on to the machine or not. The service for the interface will continue collecting data whether the interactive program is running or not.

[Reference ID: 12035]

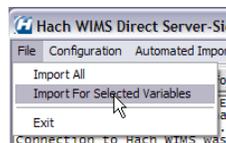
### 3.9 File - Import All



Imports all data for all variables.

[Reference ID: 12034]

### 3.10 File - Import For Selected Variables

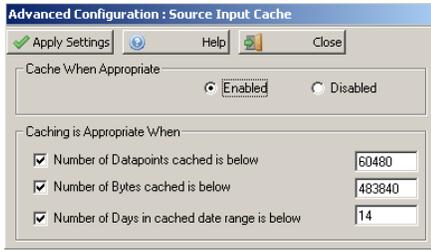


Imports data for the selected variables.

[Reference ID: 12038]

### 3.11 Source Input Cache Configuration

**Source Input Cache Configuration** is used to configure caching criteria for interfaces that support caching.



Click **Apply Settings** to apply changes and return to parent form. Click **Close** to return without applying changes.

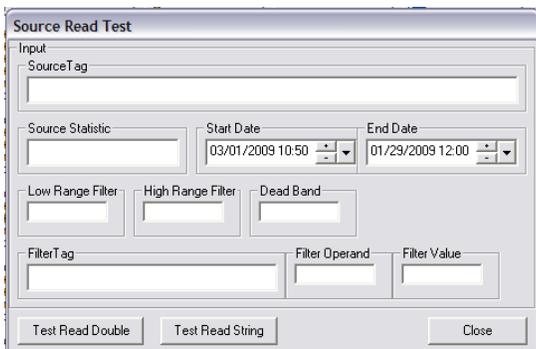
[Reference ID: 12132]

### 3.12 Test - Source Read Test

The **Source Read Test** functionality is useful for source testing purposes.

Use this screen to look at source data for specific dates, using different statistics (MINIMUM, MAXIMUM, AVERAGE, etc).

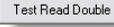
This is useful when you want to look at source data on specific dates, **WITHOUT** doing an actual import. (No data will be overwritten on the Hach WIMS database.)



To do a test, you will need to specify a tag in the Source Tag field. Then, for each tag, you can specify:

- The Source Statistic to apply (MINIMUM, MAXIMUM, AVERAGE, etc).
- The start and end dates you want data fetched.
- The high & low ranges, as well as the dead-band (optional).
- The filter tag - a second source tag that acts as a filter to the main selected tag (optional).

**Buttons:**

	Interpret the tag as a double (floating-point) tag and return a floating-point number.
	Interpret the tag as a string tag and return the result as a string.
	Closes the window.

[Reference ID: 12054]

### 3.13 Test - Test Connection to Hach WIMS

Perform a test against the Hach WIMS connection to see if the connection is valid

[Reference ID: 12052]

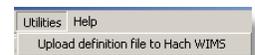
### 3.14 Test - Test Import All

This performs a **test** import for all interface-configured variables. Note that no actual data will be written to the Hach WIMS database.

[Reference ID: 12053]

### 3.15 Utilities - Upload Definition File to Hach WIMS

This feature allows you to upload the interface definition (g2\_server\_lu) file to the Hach WIMS database. This is needed in order to setup a collector record in Hach WIMS.



Once the definition file has been uploaded, proceed with creating a collector record in Hach WIMS Client.

The process to setup a collector record is outlined in How to configure the Hach WIMS Client for a server-side interface(See Section 2.4) .

[Reference ID: 12040]

## 4 - Documentation : Release Notes

### 4.1 Release Notes for Hach WIMS Direct Server-Side Interface Platform

#### Build 36

- Fixed a loophole that may have allowed interface crash when UI log listbox was about to display more than 32000 lines of log (2495)

#### Build 34

- Fixed a bug that pulled up incorrect article or category when clicked on submenu Help / Chapters. Platform now requires setting of link constants for every interface custom configuration module (2488)
- Fixed a bug that took users to incorrect link upon clicking on menu item Support / Check for new Updates (2492)

#### Build 27

- Initial release to public

[Reference ID: 12033]

### 4.2 Release Notes for SCADA2OPSSQL Type of Hach WIMS Direct Server-Side Interface

#### Build 28

- Added ability to specify adjustment of start date in minutes when running in automated mode. This can be configured under Configuration / Automated Import Configuration (2445)
- Added support for caching of input to accelerate interface performance of interface that rely heavily on IO (2481)
- Added support for filtering for OLEDB types of SCADA2OPSSQL interfaces (2457)

#### Build 10

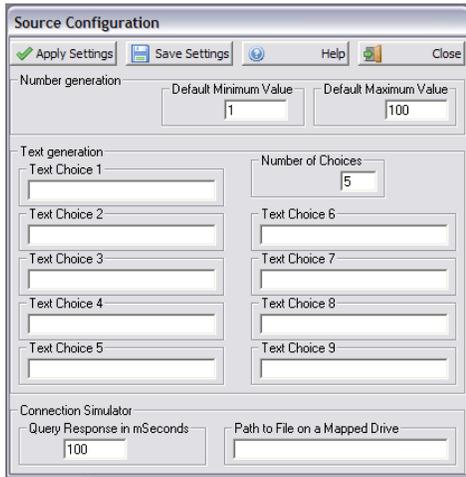
- Initial Release to Public

[Reference ID: 12068]

## 5 - Documentation : Topics specific to operation of interface

### 5.1 Configuration - Source Configuration Q11997

The configuration for the Random Number Generator interface allows you to configure the range of values of randomly generated responses:



You can configure both the range of numeric values, as well as the amount of string responses and what those responses are.

[Reference ID: 12043]

### 5.2 Release Notes for Interface Q11997

#### Hach WIMS Direct Server-Side Interface to Random Number Generator

##### Version 1.0.1 (Build 66, Released on 4/29/2009)

- Rebuilt because of changes made to the framework
  - ◆ Caching
  - ◆ LastRunDate Advancement
- Added Category Help Ids

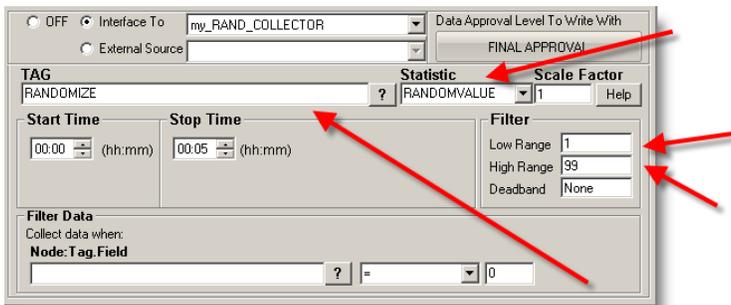
##### Version 1.0.0 (Build 51, Released on 3/5/2009)

- Initial release

[Reference ID: 12067]

### 5.3 Supported Variable Configurations for Interface Q11997

As shown on the graphic below, the interface currently supports statistic **RANDOMVALUE** against tag **RANDOMIZE**

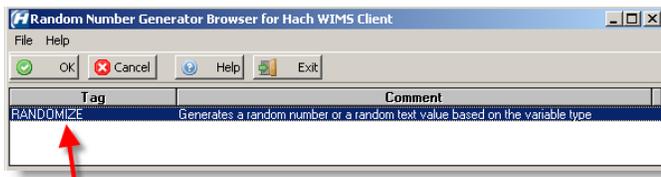


Use **Low Filter** and **High Filter** when you need to specify boundary of the number generated. I.E, if you need the random generated numbers to be between 1 and 99, set Low Filter = 1 and High Filter =99

[Reference ID: 12073]

### 5.4 Using Interface Browser Q12071

Double-click on RANDOMIZE as shown below



[Reference ID: 12072]