



# The Clarion Handy Tools Page

CHT APPLICATIONS FULL SET (BUILD: 21D.02.00)

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<a href="#">hndxsakit1.app</a>	CHT-XSA-KIT-01 Gen Pack [V10.17.11.0037]
• <b>ZIP-N-POST EMAIL CLIENT</b>	
<a href="#">hndzipnemailbot.app</a>	ZipN Email (BOT SMTP) [V10.17.11]
<a href="#">hndzipnemailbotcdo.app</a>	ZipN Email (BOT CDO) [V10.17.11]
<a href="#">hndzipnemailbotmapi.app</a>	ZipN Email (BOT MAPI) [V10.17.11]
<a href="#">hndzipnemailcdo.app</a>	ZipN Email (CDO) [V10.17.11.0101]
<a href="#">hndzipnemailmapi.app</a>	ZipN Email (MAPI) [V10.17.11]
<a href="#">hndzipnemailnet.app</a>	ZipN Email (NET) [V10.17.11]
<a href="#">hndzipnemailsmtp.app</a>	ZipN Email (SMTP) [V10.17.12]
<a href="#">hndzipnemailsnap.app</a>	ZipN Email (SNAP SMTP) [V10.17.11]
<a href="#">hndzipnemailsnapmapi.app</a>	ZipN Email (SNAP MAPI) [V10.17.11]
• <b>ZIP-N-POST FTP CLIENT</b>	
<a href="#">hndzipnftp.app</a>	ZipN Post to FTP (Clarion) [V10.17.11]
<a href="#">hndzipnftppet.net</a>	ZipN Post to FTP (NET) [V10.17.11]
• <b>ZIP-N-POST GEN PACK</b>	
<a href="#">hndappszipnpostgenpack.app</a>	ZipN Post Multi-App Solution [V10.17.11]
• <b>ZIP-N-POST HTTP XSA-CLIENT</b>	
<a href="#">hndzipnposttochtserver.app</a>	ZipN Post to CHT Server (DLL) [V10.17.11]
<a href="#">hndzipnposttochtserverocx.app</a>	ZipN Post to CHT Server (OCX) [V10.17.11]
<a href="#">hndzipnposttochtsetup.app</a>	ZipN Post To CHT Setup (DLL) [V10.17.11]
<a href="#">hndzipnposttochtxsa.app</a>	ZipN Post to XSA Server (DLL) [V10.17.11]

## Application Details

**Name:** CHTSNAP2PDF.EXE

**Build:** CHT Snap Edit CMD Utility -- Version: 21.17.07.00

**Date:** 12/13/2017

**Category:** Application Snap-Ins

**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAP2PDF.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

CHTSNAP2PDF.EXE (AKA: CHT Snap To PDF), is a command-line translation tool that is able to translate well-formed HTML 5 documents into exact-copy PDF documents that include full use of correctly formatted internal and external links.

CHTSNAP2PDF.EXE requires no pre-configuration and has no DLL dependencies in this version or later. It can be run from the DOS prompt, from a standard Windows short cut or from inside a Clarion application. A number of CHT demo and utility applications, for example *HNDDOCUMENTBUILDER* make extensive use of this document translation application.

CHTSNAP2PDF.EXE can be incorporated into your application from the CHT Snap-In interface where you can find a "CHTSnap2PDF" option. Our template sets an IDE directive to copy the CHTSNAP2PDF.EXE into your application's compile directory. The template also enables a CHT Class called HNDSNAPCALL which contains functions for calling the editor from your application.

For DEMO application which incorporate CHTSNAP2PDF.EXE as described above, see HNDDOCUMENTBUILDER.APP, HNDPREVIEWER.APP and HNDTPXHTNEXT.APP. These applications are described here: [HNDDOCUMENTBUILDER.APP](#).

Contact CHT at: [support@cwandy.ca](mailto:support@cwandy.ca) for price and availability of C# source code

information.

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**Name:** CHTSNAPEDIT.EXE  
**Build:** CHT Snap Edit CMD Utility -- Version: 21.17.07.00  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAPEDIT.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

CHTSNAPEDIT.EXE (AKA: CHT Snap Edit), is a command-line text editor complete with syntax highlighting and colorization. The editor is optimized for use with Clarion code, HTML and CSS. CHTSNAPEDIT.EXE may be used from the DOS prompt, in batch file operations or it may be incorporated into your Clarion application via CHT templates provided with the CHT toolkit.

CHT Snap Edit requires no pre-configuration and has no DLL dependencies in this version or later. It can be run from the DOS prompt, from a standard Windows short cut or from inside a Clarion application. A number of CHT demo and utility applications, for example *HNDDOCUMENTBUILDER* make extensive use of this editor application.

This editor is branched from the same C# source code from which the Clarion IDE code editor was originally built. In fact, if you view Clarion source .CLW files from this editor, editing will feel familiar. The hot keys provided, however, are optimized for editing raw HTML and XML files.

Hot keys are provided for most of standard mark-up operations such as **BOLD**, *ITALIC* Paragraph, Image Links, Web Anchors and numerous others.

CHTSNAPEDIT.EXE can be incorporated into your application from the CHT Snap-In interface where you can find a "CHT Snap Edit" option. Our template sets an IDE directive to copy the CHTSNAPEDIT.EXE into your application's compile directory. The template also enables a CHT Class called HNDSNAPCALL which contains functions for calling the editor from your application.

Two procedure-local templates called SNAPEDITSTARTBUTTON, RUNCHTSNAPEDIT provide an easy way to incorporate various text, HTML or XML editing tasks into a Clarion Window procedure.

For DEMO application which incorporate CHTSNAPEDIT.EXE as described above, see HNDDOCUMENTBUILDER.APP, HNDMAILBATCHER.APP and HNDNETMAILPROMO.APP. These applications are described here: [HNDDOCUMENTBUILDER.APP](#).

Contact CHT at: [support@cwhandy.ca](mailto:support@cwhandy.ca) for price and availability of C# source code information.

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**Name:** CHTSNAPGET.EXE  
**Build:** CHT Snap Get CMD Utility -- Version: 21.17.07.00  
**Date:** 12/13/2017

**Category** Application Snap-Ins

**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAPGET.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

CHTSNAPGET.EXE is a command-line utility to download files from a standard, unprotected web url like a generally accessible web page or open file delivery URL. It uses the HTTP protocol. CHT Snap Get can be configued manually from the command line, or by leveraging a Clarion application to write the necessary registry entries. Once configured, to call into a specific server, and subdirectory, a file may be obtained from there with a single --fetch command.

CHTSNAPGET.EXE is added as a component to your Clarion application, from the CHT's global "Application Snap-Ins" template. A procedure-local template called SNAPGETSTARTBUTTON provides an easy way to configure the application two different ways from a Clarion window procedure and to trigger download of a file named in a procedure entry field.

For a DEMO application, see HNDTESTCHTSNAPGET.APP. That application is described here: [DOCS FOR HNDTESTCHTSNAPGET.APP](#).

These DOS command-line inputs are required to fetch a remote file:

```
chtsnapget --fetch FILENAME
chtsnapget --fetchuz FILENAME (to unzip on receipt of .zip file)
```

FILENAME must be the raw name, no path, e.g. myfile.pdf

Remote subdirectories are configured in the setup dialog.

Wild card file names are not permitted. URL processing is stopped.

This application must be configured before use.

Configure manually via the command line, or by programmatically completing registry values with Clarion HNDSnapCall.CHTSnapGetConfig() class function (HNDSNAPCALL.INC/.CLW).

To configure from the DOS command line, type:

```
chtsnapget --config
```

Then, complete the provided dialog values.

CHT Snap Get -- Version: 20.16.03.00

Contact CHT at: support@cwandy.ca for price and availability of C# source code information.

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**Name:** CHTSNAPMAPI.EXE

**Build:** CHT Snap MAPI CMD Utility -- Version: 21.17.07.00

**Date:** 12/13/2017

**Category** Application Snap-Ins

**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAPMAPI.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.



CHTSNAPMAPI.EXE (AKA: CHT Snap MAPI) is able to send emails using the system's default MAPI client if such a client is already properly configured. Emails sent this way may be found, after sending, in the "Sent" mail repository of the default client as if they were sent manually from the client interface.

CHT Snap Mapi does not require any kind of pre-configuration involving a configuration dialog or maintaining registry entries. All information required for any individual email-send task can be passed on the application command line, since the installed email client is already pre-configured.

CHTSNAPMAPI.EXE is added as a component to your Clarion application, from the CHT's global "Application Snap-Ins" template. A procedure-local template called SNAPMAPISTARTBUTTON provides an easy way send MAPI email from a Clarion window procedure.

For a DEMO application, see HNDTESTCHTSNAPTOOLS.APP. That application is described here: [DOCS FOR HNDTESTCHTSNAPTOOLS.APP](#).

CHTSNAPMAPI.EXE accepts DOS command-line inputs in order to send text or HTML emails.

Three or four command-line inputs are required:

```
CHTSNAPMAPI "TO" "SUBJECT" "MSG.TXT OR MSG.HTML" ["ATTACH.FILE"]
```

Inputs with spaces or extended characters must be surrounded by double quotes.

Otherwise, inputs may be provided without surrounding double quotes.

ATTACH.FILE is optional. This option represents optional attachment file(s).

Mail results are written to standard output, namely the console.

MSG.TXT, MSG.HTML and ATTACH.FILE may include full paths to different folder locations.

Multiple TO addresses may be separated by either semi-colons or commas.

Multiple attachments may be separated by either semi-colons or commas.

Contact CHT at: [support@cwandy.ca](mailto:support@cwandy.ca) for price and availability of C# source code information.

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**Name:** CHTSNAPSEND.EXE

**Build:** CHT Snap SEND CMD Utility -- Version: 21.17.07.00

**Date:** 12/13/2017

**Category:** Application Snap-Ins

**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAPSEND.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

CHTSNAPSEND.EXE (AKA: CHT Snap Send), is an error-reporting tool which integrates, with your Clarion application via CHT templates. It is able to provide screen-snaps of error-causing procedure windows as well as lower-level error codes and error messages issued by the application when an error is encountered. CHTSNAPSEND greatly increases the accuracy of error reporting from applications as it eliminates most of the error-reporting steps that end-users are likely to have difficulties with.

CHT Snap Send email settings can be configued manually using its internal setup dialog, or by leveraging a Clarion application to write the necessary registry entries from our Snap-Ins template interface.

This application does not take command-line inputs. It is leveraged by CHT's Snap-In template interface provided globally on the CHTSNAPGET tab and procedure-locally on a

procedure tab that appears when the global CHTSNAPGET tab is enabled.

The "CHT SnapSend" template element, when enabled, writes global SnapSend configuration entries to the Windows Registry in order to customize some of the actions and messages that CHT SnapSend performs and displays, while taking application screen snaps. Further, this template causes the auto-population of multiple instances of a procedure-level template (one per window procedure) called "ProcedureSnapIns(HndTools)". ProcedureSnapIns(HndTools) instances are de-populated when ApplicationSnapIns(HndTools) is removed. See the docs for ProcedureSnapIns to discover the procedure-specific configurations that are possible with that auto-populated template.

EmbedSnapCall: This template may be used to attach to your application, at the procedure level, a CHT Code module containing a single class called HNDSnapCall. This extension creates a single, local instance of the HNDSnapCall Class which is used to call a variety of "CHT SNAP-IN" executable tools in a manner that resembles standard DLL calls, using parameter passing on the command line.

ProcedureSnapIns: On a procedure-by-procedure basis, this template allows the developer to optionally expose the state of procedure-local and global variables while the procedure is running. These variables are added into a text file that is sent via email along with the procedure-window snapshot taken by CHT SnapSend. This template is also the parent of a button template called "HandyWindowsStopStartSnapSendButton(HndTools)". That means the button template does not appear in the IDE's control templates list until ApplicationSnapIns' "Enable?" switch is checked.

Contact CHT at: [support@cwandy.ca](mailto:support@cwandy.ca) for price and availability information.

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**Name:** CHTSNAPSMTP.EXE  
**Build:** CHT Snap SMTP CMD Utility -- Version: 20.17.07.00  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAPSMTP.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

CHTSNAPSMTP.EXE (AKA: CHT Snap SMTP), is able to send email via SMTP protocol from any Windows system with an internet connection and a viable SMTP server. Even web-based email providers such as HOTMAIL, GMAIL and YAHOO may be leveraged by CHTSNAPSMTP since they provide also for unique SMTP setups. CHTSNAPSMTP can also send secure, encrypted email assuming that the SMTP server being accessed provides for it.

CHT Snap Get can be configured manually from the command line, or by leveraging a Clarion application to write the necessary registry entries. Once configured, to a specific SMTP server and account emails can be sent from the DOS command line.

CHTSNAPSMTP.EXE is added as a component to your Clarion application, from the CHT's global "Application Snap-Ins" template. A procedure-local template called SNAPSMTPSTARTBUTTON provides an easy way send SMTP email from a Clarion window procedure.

For a DEMO application, see HNDTESTCHTSNAPTOOLS.APP. That application is described here: [DOCS FOR HNDTESTCHTSNAPTOOLS.APP](#).

These DOS command-line inputs are required to send text or HTML emails:

Three or four DOS command-line inputs are required

in order to send text or html mail with optional attachments:

```
CHTSNAPSMTP "TO" "SUBJECT" "MSG.TXT OR MSG.HTML" ["ATTACH.FILE"]
```

Inputs with spaces or extended characters use double quotes.  
Otherwise, inputs may be provided without surrounding double quotes.  
Individual inputs must be separated by one or more spaces.  
ATTACH.FILE is optional. It represents optional attachment file(s).  
CHT Snap SMTP must be configured before mail can be sent.  
Type "CHTSNAPSMTP --config" at the DOS prompt to configure.  
Mail results are written to the console and to chtsnapsmp.log.  
MSG.TXT or MSG.HTML and ATTACH.FILE may include full paths to folders.  
Multiple TO addresses may be separated with either semi-colons or commas.  
Multiple attachments may be separated with either semi-colons or commas.  
\*\* CHTSNAPSMTP.EXE \*\* Version: [20.16.03.00] \*\*

Contact CHT at: support@cwhandy.ca for price and availability of C# source code information.

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**Name:** CHTSNAPZIP.EXE

**Build:** CHT Snap Zip CMD Utility -- Version: 21.17.07.00

**Date:** 12/13/2017

**Category:** Application Snap-Ins

**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line or from inside a Clarion application using Clarion RUN(), HNDUTIL.ShellRunHide() or one of the snap-in run methods designated to it in CHT's HNDSnapCall Class.

CHTSNAPZIP.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

CHTSNAPZIP.EXE (AKA: CHT Snap Zip) is a command-line zip/unzip tool included with the CHT toolkit. It may be used directly from the DOS prompt or it may be incorporated into your application via CHT templates.

CHT Snap Zip does not require any kind of pre-configuration involving a configuration dialog or maintaining registry entries. All information required for any individual "zipping" task can be passed on the application command line.

CHTSNAPZIP.EXE is added as a component to your Clarion application, from the CHT's global "Application Snap-Ins" template. Three procedure-local templates called SNAPZIPSTARTBUTTON, SNAPUNZIPSTARTBUTTON and SNAPZIPDIRSTARTBUTTON, provides an easy way to incorporate various zipping tasks into a Clarion Window procedure.

For a DEMO application, see HNDTESTCHTSNAPZIP.APP. That application is described here: [DOCS FOR HNDTESTCHTSNAPZIP.APP](#).

These DOS command-line inputs are required to zip files or directories.

Zip That Recurses Subdirectories Accepts 3 Inputs:

```
chtnsapzip
```

Folder names are included in the zip.

Zip That Skips Subdirectories Accepts 3 Inputs:

```
chtnsapzip "zz" "zipfilename" "sourcedir[\mask]"
```

Produces a flat zip without the folder names in the zip.

Unzip Accepts 3 Inputs:

```
chtsnapzip "uz" "zipfilename" "targetdir[\mask]"
```

The second input may include a full path to the zip file.  
When no zip path is given, the zip file is assumed to be located  
in the same directory as the CHTSNAPZIP.EXE executable.  
[\mask] Represents an optional mask [e.g. \hnd\*.dw] to filter files.

Contact CHT at: support@cwandy.ca for price and availability of C# source code  
information.

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**Name:** HND2.APP  
**Build:** ExplorerBrowse Demo - HND2.APP [V10.17.11.0465]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HND2.APP](#)  
**Templates:** [Templates In Application HND2.APP](#)  
**Description:**

This application demonstrates primarily, the use of a Clarion Handy Tools Template called ExplorerBrowse. This is an extension template that extends a standard ABC browse with some 25+ features including header-click browse column sorting, built-in locators, greenbar support, and much more.

ExplorerBrowse itself can also be extended by adding a locator template called ExplorerBrowseLocatorControl and a query control called QueryParsingFilterControl. Examples of both are provided. Ancillary templates called HandyQueryProcessLimiter and HandyQueryReportLimiter allow you to pass queries directly from the browse to a report or process via a window button template called HandyQueryProcessButton. See the procedure called Demobrowse4 for examples of this powerful feature.

The major CHT classes involved are: HNDBrowse, HNDBrwFilter and HNDParse. Subscribing developers should take some time to study the header files for these three classes to become familiar with available properties and methods in order to gain the maximum amount of utility from them.

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**Name:** HND3.APP  
**Build:** HandyMarkerBrowse Demo [V10.17.11.0196]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HND3.APP](#)  
**Templates:** [Templates In Application HND3.APP](#)  
**Description:**

This application demonstrates two record marking templates that assist in marking records on ABC browses and hand-coded list boxes.

The browse-marking templates involved are: HandyMarkerBrowse and ListBoxBrowseExtender. HandyMarkerBrowse extends a normal ABC browse template while ListBoxBrowseExtender extends a standard list box. They are separate browse-producing templates with different feature sets and some overlapping features.

Other marking-related templates ancillary to these two allow you pass marked records to processes for export to HTML, TEXT, FILE, EXCEL and print reports limited to only the records marked in your browse. These templates are: HandyMarkerBrowesProcessLimiter, HandyMarkerBrowseReportLimiter, HandyMarkerBrowseProcessButton and HandyMarkerBrowseReportButton.

A ancillary template called HandyMarkerBrowseSetsControl allows you to store and recall sets of marked records by name.

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**Name:** HND5.APP  
**Build:** CHT HNDDisk Classes Demo [V10.17.11.0513]  
**Date:** 12/13/2017  
**Category:** Windows API  
**Classes:** [Classes By Procedure In HND5.APP](#)  
**Templates:** [Templates In Application HND5.APP](#)  
**Description:**

This application uses the generic template EmbedDiskFunctions to attach a class called HNDDISK to your application. The application presents numerous menu items each of which illustrates a single method from the HNDDISK class. This demo only scratches the surface of the low level O/S functions of this type available. See HNDUTIL.INC/HNDDISK.INC and HNDISKEX.INC for method prototypes.

Some examples of the things illustrated:

Creating nested directories

Copying and moving files

Finding the directory of a file using only its file name

Determining drive size and space remaining, the number of drives and drive types

Determining the unique ID of a system's hard disk

Launching Windows File Explorer from inside your app

For file copying, moving, erasing, renaming in bulk see HNDCPYDM.APP.

For file compression and decompression in bulk see HNDZDEMO.APP.

For file containerization and decontainerization in bulk see HNDSETUP.APP.

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**Name:** HND6.APP  
**Build:** CHT Address Controls Demo [V10.17.11.0230]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Names And Addresses  
**Classes:** [Classes By Procedure In HND6.APP](#)  
**Templates:** [Templates In Application HND6.APP](#)  
**Description:**

This application demonstrates primarily three control templates.

The HandyAddressControl Template provides three free-form address capture controls similar to those found in Microsoft Outlook. This set of controls allows users to type their name and address in a more-or-less free form style while still allowing the developer to capture address components in separate data base fields.

The HandyRulerControl Template provides horizontal and vertical rulers combined with an image control to provide scaling for drawings and images.

The HandySliderControl Template provides a standard MS Windows slider control that can be used in a variety of settings from browses to image scaling.

As of the O7B Build some extra code has been added to the underlying classes to allow the address control to remain completely empty if so required.

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**Name:** HND7.APP  
**Build:** CHT Registry Demonstration [V10.17.11.0236]  
**Date:** 12/13/2017  
**Category:** Windows Registry  
**Classes:** [Classes By Procedure In HND7.APP](#)  
**Templates:** [Templates In Application HND7.APP](#)  
**Description:**

This application demonstrates primarily the CHT template called EmbedRegistryFunctions.

This template instantiates an OOP class called HNDRegistry which deals exclusively with reading, writing and deleting from the MS Windows (tm) registry. For a full listing of methods and properties available in this class open the class header module called HNDREG.INC.

This application will let you test reading, writing and deleting registry entries on your system. Follow the instructions on the "Registry Demo" window.

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**Name:** HND8.APP  
**Build:** Window Functions And Callbacks [V10.17.11.0224]  
**Date:** 12/13/2017  
**Category:** Windows API  
**Classes:** [Classes By Procedure In HND8.APP](#)  
**Templates:** [Templates In Application HND8.APP](#)  
**Description:**

This application demonstrates primarily the use of a template called "EmbedWindowFunctions". This template creates a single instance of the HNDWindow class in your procedure.

HNDWindow has numerous window-related capabilities some of which are demonstrated in this application. Other templates that create (or use) instances of HNDWindow and use other features of that class are:

- \* HandyTellMeControl - scrollable text message areas
- \* VisitMeControl - window hot links to your website.
- \* VisitMeControl\_EWF - window hot links advanced
- \* HandyMailMeControl - window hotlinks for email
- \* HandyMailMeControl\_EWF - window hotlinks for email advanced
- \* HandyHelpMessageBox - easy popup message boxes
- \* ApplicationImagesEx - image management application global
- \* ProcedureImagesEx - image management procedure specific
- \* ExtendedEvents - trap and act on extended MS Windows Events

This application has a companion called hnd8a.app which must also be compiled in order to illustrate inter-application messaging and data transfer. If you're using the source versions of CHT's example applications, make sure to compile hnd8.app before running this one.

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**Name:** HND8A.APP  
**Build:** Window Functions And Callbacks [V10.17.11.0213]  
**Date:** 12/13/2017  
**Category:** Windows API  
**Classes:** [Classes By Procedure In HND8A.APP](#)  
**Templates:** [Templates In Application HND8A.APP](#)  
**Description:**

This application runs hidden under the control of another CHT Demo application called HND8.APP.

It intercepts window messages from HND8.APP and illustrates programmatic control of one application by another simply by passing window messages between applications.

This splash screen is only added to the application for documentation purposes. It never displays as the application runs under the control of HND8.APP.

Any questions, free free to ask on the CHT Forum [http://support.cwhandy.ca/LOG\\$](http://support.cwhandy.ca/LOG$)

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**Name:** HNDACCES.APP  
**Build:** CHT SQL Demonstration [V10.17.11.0492]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDACCES.APP](#)  
**Templates:** [Templates In Application HNDACCES.APP](#)  
**Description:**

This application demonstrates the added speed and convenience of the NATIVE SQL filtering capability built into the CHT query parser classes. Make sure to check the tutorial available with this application for more information about what this demonstration application illustrates about The Clarion Handy Tools.

The CHT query parser has the ability to generate optimised NATIVE SQL directly from your real-language queries. The SQL is then sent to your data base using

View{{PROP:SQLFilter}} rather than via ABC.SetFilter(). In the O8A1.0 build we've added an optional QUERY BUILDER (OBJ.QBInterface()) to the ? button of the QueryParsingFilterControl template.

The CHT-generated SQL appears in the WHERE clause component of the SELECT string sent to your data base. The chief advantage of this is speed. Clarion's file drivers do not always translate clarion filter strings into effective SQL. In some cases, depending how complex your query, ABC.Setfilter() causes the driver to literally read large portions of the data base, forcing the driver to manage filtering rather than letting the data base handle it.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDAPPSDOCGEN.APP  
**Build:** XML2HTML App Docs Gen [V10.17.11]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDAPPSDOCGEN.APP](#)  
**Templates:** [Templates In Application HNDAPPSDOCGEN.APP](#)  
**Description:**

This application runs from Webupdater whenever it senses a change in HND\_WEBUPDATER\_Cx\_01.HZO, the container that handles CHT binaries and DLLs.

This application calls REGASM.EXE to register several NET dlls for COM interoperability with Clarion Win32 applications. These are at time of writing:

HNDNETSMTP.DLL, HNDNETZIPPER.DLL, HNDNETDATETIME.DLL  
HNDNETFTP.DLL, HNDNETWLANAPI.DLL, HNDNETDRIVEDATA.DLL, HNDNETMAPI.DLL

HNDREGISTERNETDLLS.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

To register these DLL's manually using this application call the app from the DOS prompt as follows: HNDREGISTERNETDLLS

Your hardware O/S must have at least Windows FrameWork 2 installed for these NET DLLs to become correctly registered.

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**Name:** HNDAPPSPLASHWIZ.APP  
**Build:** CHT Splash Wizard Host [V10.17.11.0116]  
**Date:** 12/13/2017  
**Category:** Application Wizard Host  
**Classes:** [Classes By Procedure In HNDAPPSPLASHWIZ.APP](#)  
**Templates:** [Templates In Application HNDAPPSPLASHWIZ.APP](#)  
**Description:**

This "Wizard Host" application sponsors six different splash screen wizards available from CHT's AACHTJumpstartProceduresUtility interface under "Application Cosmetics".

The wizards on this "Cosmetics" tab originate here as .TXA exports from this application.

We suggest using these wizards directly from our AACHTJumpStartProceduresUtility template interface, since using them from there ensures that all necessary global templates required are pre-populated to your application automatically by template import code.

Any questions, feel free to ask: news.cwhandy.ca

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**Name:** HNDAPPSXML2HTMLGENPACK.APP  
**Build:** XML2HTML Multi-App Solution [V10.17.11]  
**Date:** 12/13/2017  
**Category:**

XML2HTML GEN PACK

**Classes:** [Classes By Procedure In HNDAPPSXML2HTMLGENPACK.APP](#)

**Templates:** [Templates In Application HNDAPPSXML2HTMLGENPACK.APP](#)

**Description:**

HNDAPPSXML2HTMLGENPACK.APP is a convenient, multi-app solution for multi-app recompile when required.

This app has only a splash screen for self-documentation purposes and serves only as a repository with which to group and multi-compile a set of related CHT apps, without using CHT Project Builder.

It contains the following CHT XML2HTML applications:

HNDXML2HTMLGEN.APP  
HNDDOCUMENTBUILDER.APP  
HNDSLFSVCUS.APP  
HNDSLFSVXMLDATASVR.APP  
HNDMAILBATCHER.APP  
HNDMAILNETPROMO.APP  
HNDTPLDOCGEN.APP  
HNDAPPSDOCGEN.APP

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**Name:** HNDAPPSZIPNPOSTGENPACK.APP

**Build:** ZipN Post Multi-App Solution [V10.17.11]

**Date:** 12/13/2017

**Category:** ZIP-N-POST GEN PACK

**Classes:** [Classes By Procedure In HNDAPPSZIPNPOSTGENPACK.APP](#)

**Templates:** [Templates In Application HNDAPPSZIPNPOSTGENPACK.APP](#)

**Description:**

HNDAPPSZIPNPOSTGENPACK.APP is a convenient, multi-app solution for multi-app recompile when required.

This app has only a splash screen for self-documentation purposes and serves as a repository with which to group and multi-compile a set of related CHT apps, without using CHT Project Builder.

It contains the following 14, CHT ZIP NPOST applications:

hndzipnemailbbot.app  
hndzipnemailbbotcdo.app  
hndzipnemailbbotmapi.app  
hndzipnemailcdo.app  
hndzipnemailmapi.app  
hndzipnemailnet.app  
hndzipnemailsmtp.app  
hndzipnemailsnap.app  
hndzipnemailsnapmapi.app  
hndzipnftp.app  
hndzipnftpnet.app  
hndzipnposttochtsetup.app  
hndzipnposttochttxsa.app  
hndzipnposttochtserver.app

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**Name:** HNDAPPWIZHOST.APP

**Build:** CHT Application Wizards Host [V10.17.11.0133]

**Date:** 12/13/2017

**Category:** Application Wizard Host

**Classes:** [Classes By Procedure In HNDAPPWIZHOST.APP](#)

**Templates:** [Templates In Application HNDAPPWIZHOST.APP](#)

**Description:**

This "Wizard Host" application sponsors five different "Wizards" available from CHT's AACHTJumpstartProceduresUtility interface under "Application Short Cuts" and "Application Help" tabs.



The wizards on these tabs originate here as .TXA exports from this application.

We suggest using these wizards directly from our AACHTJumpStartProceduresUtility template interface, since using them from there ensures that all necessary global templates required are pre-populated to your application automatically by template import code.

Any questions, feel free to ask: news.cwhandy.ca

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**Name:** HNDBACKUPCONFIG.APP  
**Build:** Auto-Backup Config (DLL) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBACKUPCONFIG.APP](#)  
**Templates:** [Templates In Application HNDBACKUPCONFIG.APP](#)  
**Description:**

This "CHT Utility Application" is intended to configure the CHT toolkit to back up your Clarion applications any time your app file is changed and generated.

Settings include, the ability to:

- 1) establish the auto-backup timer,
- 2) modify the target backup directory,
- 3) modify the target zip directory
- 4) modify the target restore directory
- 5) maintain, delete and zip backup files
- 6) locate and restore backup files from zip

From this application you are able to select a range of backups and compress them into a single zip file for archiving to a configured location.

You are also able to search and examine zip archives and restore backed up applications and dictionaries to a configurable location.

This application now includes procedure(s) using the template CHTBestPracticeEmbedClass as an example for developers.

As of Build 21D.00.00 this application is now built on HNDNETZIPPER.DLL.

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**Name:** HNDBACKUPCONFIGBOT.APP  
**Build:** Auto-Backup Config (BOT) [V10.17.12]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBACKUPCONFIGBOT.APP](#)  
**Templates:** [Templates In Application HNDBACKUPCONFIGBOT.APP](#)  
**Description:**

This "CHT Utility Application" is intended to configure the CHT toolkit to back up your Clarion applications any time your app file is changed and generated.

Settings include, the ability to:

- 1) establish the auto-backup timer,
- 2) modify the target backup directory,
- 3) modify the target zip directory
- 4) modify the target restore directory
- 5) maintain, delete and zip backup files
- 6) locate and restore backup files from zip

From this application you are able to select a range of backups and compress them into a single zip file for archiving to a configured location.

You are also able to search and examine zip archives and restore backed up applications and dictionaries to a configurable location.

This specially named version (i.e. BOT in the app name) is built on HNDZIPNET.EXE incorporated as a CHT "Snap-In" on the global template "ApplicationSnapins".

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**Name:** HNDBACKUPCONFIGOCX.APP  
**Build:** Auto-Backup Config (OCX) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBACKUPCONFIGOCX.APP](#)  
**Templates:** [Templates In Application HNDBACKUPCONFIGOCX.APP](#)  
**Description:**

This "CHT Utility Application" is intended to configure the CHT toolkit to back up your Clarion applications any time your app file is changed and generated.

Settings include, the ability to:

- 1) establish the auto-backup timer,
- 2) modify the target backup directory,
- 3) modify the target zip directory
- 4) modify the target restore directory
- 5) maintain, delete and zip backup files
- 6) locate and restore backup files from zip

From this application you are able to select a range of backups and compress them into a single zip file for archiving to a configured location.

You are also able to search and examine zip archives and restore backed up applications and dictionaries to a configurable location.

This application now includes procedure(s) using the template CHTBestPracticeEmbedClass as an example for developers.

As of Build 21D.00.00 this specially named version (i.e. OCX in the app name) is built on HNDZIPR.OCX.

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**Name:** HNDBACKUPCONFIGSNAP.APP  
**Build:** Auto-Backup Config (SNAP) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBACKUPCONFIGSNAP.APP](#)  
**Templates:** [Templates In Application HNDBACKUPCONFIGSNAP.APP](#)  
**Description:**

This "CHT Utility Application" is intended to configure the CHT toolkit to back up your Clarion applications any time your app file is changed and generated.

Settings include, the ability to:

- 1) establish the auto-backup timer,
- 2) modify the target backup directory,
- 3) modify the target zip directory
- 4) modify the target restore directory
- 5) maintain, delete and zip backup files
- 6) locate and restore backup files from zip

From this application you are able to select a range of backups and compress them into a single zip file for archiving to a configured location.

You are also able to search and examine zip archives and restore backed up applications and dictionaries to a configurable location.

This specially named version (i.e. SNAP in the app name) is built on CHTSNAPZIP.EXE incorporated as a CHT "Snap-In" on the global template "ApplicationSnapins".

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**Name:** HNDBACKUPSERVICE\_A.APP  
**Build:** CHT Backup Service A [V10.17.11.0161]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNDBACKUPSERVICE\\_A.APP](#)  
**Templates:** [Templates In Application HNDBACKUPSERVICE\\_A.APP](#)  
**Description:**

This application uses CHT templates GlobalIncludeHNDUtilitiesDLL and

HandyNTServiceFunctions.

The application runs as a service to back up user-designated directories using file-limiting masks at user-designated times. A configuration file called HNDBACKUPSERVICE\_A.INI provides a backup time, a target copy directory and a backup hzo directory. Up to 100 source backup descriptions that include source directory and file-mask are possible.

To install the service, from the DOS prompt type:

HNDBACKUPSERVICE\_A /IS

To start the service - once installed - from the DOS prompt type:

HNDBACKUPSERVICE\_A /SS

To stop the service from the DOS prompt type:

HNDBACKUPSERVICE\_A /STOP

To remove the service, from the DOS prompt type:

HNDBACKUPSERVICE\_A /RS

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**Name:** HNDBACKUPSERVICE\_B.APP

**Build:** CHT Backup Service B [V10.17.11.0249]

**Date:** 12/13/2017

**Category:** Windows Services

**Classes:** [Classes By Procedure In HNDBACKUPSERVICE\\_B.APP](#)

**Templates:** [Templates In Application HNDBACKUPSERVICE\\_B.APP](#)

**Description:**

This application uses CHT templates GlobalIncludeHNDUtilitiesDLL and HandyNTServiceFunctions.

The application runs as a service to back up user-designated directories using file-limiting masks at user-designated times. A configuration file called HNDBACKUPSERVICE\_A.INI provides a maximum of 10 backup times and 100 backup descriptions that include source directory, file-mask, target directory.

To install the service, from the DOS prompt type:

HNDBACKUPSERVICE\_A /IS

To start the service - once installed - from the DOS prompt type:

HNDBACKUPSERVICE\_A /SS

To stop the service from the DOS prompt type:

HNDBACKUPSERVICE\_A /STOP

To remove the service, from the DOS prompt type:

HNDBACKUPSERVICE\_A /RS

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**Name:** HNDBACKUPSERVICE\_CD.APP

**Build:** CHT Backup Service CD [V10.17.11.0258]

**Date:** 12/13/2017

**Category:** CDROM Burning

**Classes:** [Classes By Procedure In HNDBACKUPSERVICE\\_CD.APP](#)

**Templates:** [Templates In Application HNDBACKUPSERVICE\\_CD.APP](#)

**Description:**

This application demonstrates a CHT template EmbedHNDCDROMClass used in conjunction with a windowless NT Service.

The application runs as a service to back up user-designated directories and sub-directories. A configuration file called HNDBACKUPSERVICE\_CD.INI provides a backup time, and a target CDROM drive number. Up to 100 source directories may be listed.

To install the service, from the DOS prompt type:

HNDBACKUPSERVICE\_CD /IS

To start the service - once installed - from the DOS prompt type:

HNDBACKUPSERVICE\_CD /SS

To stop the service from the DOS prompt type:

HNDBACKUPSERVICE\_CD /STOP

To remove the service, from the DOS prompt type:

HNDBACKUPSERVICE\_CD /RS

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**Name:** HNDBASE64CVT.APP  
**Build:** Base64 File Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBASE64CVT.APP](#)  
**Templates:** [Templates In Application HNDBASE64CVT.APP](#)  
**Description:**

This "CHT Batch Bot" application is a command-line utility that can be called from another application using, for example, Clarion RUN or one of CHT's many ShellRun() functions. It can also be leveraged from a DOS batch file, or a windows .VBS script.

HNDBASE64CVT.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

The application accepts several command line parameters that describe the input file and output path. These parameters are as follows:

--help  
[OPT] Displays a help screen. Writes hndbase64cvthelp.txt.  
--video  
[OPT] Displays a help video or help document from the web. .  
--update  
[OPT] Causes the application to self-update from CHT servers.  
Utilizes CHTSNAPGET.EXE if / when invoked.  
--input  
[REQ] Path and name of input file  
--output  
[OPT] Output path only - local to this exe if omitted.  
--mode  
[OPT] Encode or decode - defaults to encode if omitted.

The output file name is formatted from the input file with a .h64 extension. For example: test.pdf becomes testpdf.h64

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**Name:** HNDBATCRUNNER.APP  
**Build:** Batch File Run Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBATCRUNNER.APP](#)  
**Templates:** [Templates In Application HNDBATCRUNNER.APP](#)  
**Description:**

This "CHT Utility Application" is an automation tool designed to let you pull together various command line tools and "Batch Bots" to perform tasks using batch file scripts you create that are executed from the application. Rather than writing a program to perform a repetitive task such as zipping and uploading to an FTP site or sending an email announcement, HNDBATCRUNNER.EXE lets you quickly write a script, save it to disk and execute the script when needed.

"Batch Bots" include a number of command-line utilities that at time of writing are as follows:

HNDBASE64CVT.EXE (Base 64 encoder/decoder)  
HNDENCRYPT.EXE (File encrypter/decrypter with compression)  
HNDMAKEHZO.EXE (CHT Container building utility)  
HNDFTPNET.EXE (.NET-based FTP utility)  
HNDMAILCDO.EXE (Windows CDO-based email send)  
HNDMAILNET.EXE (.NET based SMTP email send)  
HNDMAILSMTP.EXE (SMTP-based email send)  
HNDMAILMAPI.EXE (MAPI-based email send)  
HNDZIPNET.EXE (.NET-based file zip utility)  
HNDSEARCH.EXE (Text file search/replace utility)  
HNDSHCUT.EXE (Shortcut to app creation utility)  
HNDSLFCMD.EXE (HTTP upload utility)  
CHTSNAPGET.EXE (HTTP download utility)  
CHTSNAPZIP.EXE (Zip, Unzip utility)  
CHTSNAPSMTP.EXE (SMTP-based email send)

CHTSNAPMAPI.EXE (SMTP-based email send)  
CHTSNAPEDIT.EXE (Clarion code and HTML editor)  
CHTSNAPSEND.EXE (Error reporting utility)

All of the above are provided to CHT developers pre-compiled as well as in source .APP format so they can be expanded, emulated or customized by CHT developers.

Many command-line utilities of this sort are available that perform a variety of useful tasks. For example:

CLARIONCL.EXE (Clarion generate/compile utility)  
UPX.EXE (Executable file compressor)  
SIGNCODE.EXE (Windows code-signing utility)  
REGASM.EXE (.NET assembly registration utility)

HNDBATCHRUNNER.EXE supports writing, storing, searching and executing of batch file scripts that support your day-to-day use of command-line utilities of the sort described above.

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**Name:** **HNDBRWCL.APP**  
**Build:** Forum Support Client [V10.17.12]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBRWCL.APP](#)  
**Templates:** [Templates In Application HNDBRWCL.APP](#)  
**Description:**

This "CHT Utility Application" is designed to be used with HNDMTSNG.APP to provide subscriber support services. This application implements an instance of the IE browser inside the application window and reads your CHT forum parameters from the windows registry to automatically log you in.

The user interface looks and interacts exactly as it would were you to use IE directly but without some of the navigational clutter that normally appears on the IE window.

This client application serves to illustrate how to log in and then make a variety of data requests and data updates from a Clarion client application using the IE browser class called HNDInternetExplorer and a template called HandyComInternetExplorer.

This application now includes procedure(s) using the template CHTBestPracticeEmbedClass as an example for developers.

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**Name:** **HNDBUILDVIDEOLIST.APP**  
**Build:** Build MP4 Video Play List [V10.17.11.0143]  
**Date:** 12/13/2017  
**Category:** Sound And Video  
**Classes:** [Classes By Procedure In HNDBUILDVIDEOLIST.APP](#)  
**Templates:** [Templates In Application HNDBUILDVIDEOLIST.APP](#)  
**Description:**

This application builds a video playlist .NDX file that can be used with all CHT Video Servers, like HNDVIDEOSEVER.APP, and video player clients like HNDVIDEOPLAYER.APP.

It also creates separate HTML5 "video-play" pages for each video, using the name of that video, plus .HTM.

It further creates a video upload batch file using CHT XSA utility HNDLFCMDXSA.EXE to upload the videos, the .NDX file and the .HTM play files to your video server all in one batch.

Lastly, it creates a "weblinks.txt" file containing a series of web links to the videos just processed and once uploaded to the server URL indicated on this applications's configuration dialog.

When the application starts, it presents a configuration screen asking for these values:  
VIDEO URL: -- location of the video server IP and port (or URL)  
VIDEO SIZE AS PERCENT: -- default is 100% of recorded size  
COMPANY: -- name of video delivery company [OPT]  
INDEX NAME: -- name of the .NDX file to be generated  
VIDEO PATH: -- local path where .MP4 videos are located.

The application scans the video path for all .MP4 files and produces VIDEONAME.HTM for each .MP4 found. These HTML5 files (one for each separate .MP4 video found, will play that video from your web server in any HTML5 compatible browser.

The models for all generated HTML files are located in \accessory\hnd\model\ if developers would like to modify them.

The application also produces a VIDEO.NDX file (using the name you provided in the configuration screen) which may be used by CHT player application HNDVIDEOPLAYER.APP or HNDVIDEOEDUCATION.APP as a downloadable video index.

Complete the description portion in each video entry and save the file back to the server. Next time you run this application to create a new index in order to include more videos, the description entries from the existing VIDEO.NDX file are copied forward into the new index, where applicable.

To further adapt this application for your own use, open the MAIN procedure in the Clarion Embeditor and follow the comments provided.

Any questions, free free to ask on the CHT Forum [http://support.cwhandy.ca/LOG\\$](http://support.cwhandy.ca/LOG$)

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**Name:** HNDULKMAILBATCHER.APP  
**Build:** XML2HTML Bulk Mail Utility #1 [V17.11.24]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDULKMAILBATCHER.APP](#)  
**Templates:** [Templates In Application HNDULKMAILBATCHER.APP](#)  
**Description:**

This "CHT Utility Application", CHT Bulk Mail Batchter, is a batch-oriented approach to email sending via SMTP from Clarion applications or from DOS batch files using one or the other of two CHT Command Line utility applications called HNDMAILSMTP.EXE and CHTSNAPSMTMP.EXE.

#### Generate HTML Mail With Internal Style Sheets

It is important for HTML email to use internal style sheets so that the email, on arriving in the recipient's inbox, does not need to request external style sheets from the web. It is therefore deemed "safe" by email clients. It displays immediately, like text mail without the user needing to click any kind of "allow" switch.

#### Style Sheet Generating Template

This application illustrates a new template that allows the developer to change every important aspect of numerous useful HTML style sheets so that different "looks" can easily be incorporated into different HTML-generating-procedures. To create HTML outputs with new and different looks, simply copy the existing example procedure and add your own style and flare by adjusting template switches and by removing or adding to the various "sections" incorporated into our examples.

#### Select Single Or Multiple Email Addresses

Select one or more email addresses from the email browse(s) using standard MS Windows record marking and an .HTML file written ahead of time using CHTSNAPEDIT.EXE or generated by one of this application's "AutoGen" procedures.

A batch file is generated, which in a loop, successively calls HNDMAILSMTP.EXE or CHTSNAPSMTMP.EXE (depending which one you choose to use) to send the HTML email body to the addresses selected above. The batch file may be run either from the DOS prompt or from a simple desktop link or from inside your own Clarion applications, or using CHT's HNDBATCHRUNNER.EXE. utility.

An example of this run-from-Clarion concept, is provided in the "Run (Send Mail With) Last Generated Batch Script" menu of this application.

CHT Bulk Mail Batchter is able to import email addresses exported from other applications such as Windows Live Mail.

Preconfigure your SMTP email-send account beforehand and select that account for sending before generating your batch file.

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**Name:** HNDULKNETMAILPROMO.APP  
**Build:** XML2HTML Docs Mail Utility #2 [V10.17.11]

**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDBULKNETMAILPROMO.APP](#)  
**Templates:** [Templates In Application HNDBULKNETMAILPROMO.APP](#)  
**Description:**

This "CHT Utility Application", CHT Bulk Net Mail Promo, is a HNDNETSMTP.DLL based approach to HTML-email-sending via SMTP from Clarion applications. It shares the same XML-based mail "outline" files used by HNDBULKMAILSMTP.APP.

This application processes the HTML-email directly via the above-mentioned DLL, rather than by starting an executable batch utility. Email creation and generation features, and XML and HTML source files are identical to those provided in HNDBULKMAILBATCHER.APP for cross-compatibility.

#### Generate HTML Mail With Internal Style Sheets

It is important for HTML email to use internal style sheets so that the email, on arriving in the recipient's inbox, does not need to request external style sheets from the web. It is therefore deemed "safe" by email clients. It displays immediately, like text mail without the user needing to click any kind of "allow" switch.

#### Style Sheet Generating Template

This application illustrates a CHT template that allows the developer to change every important aspect of numerous useful HTML style sheets so that different "looks" can easily be incorporated into different HTML-generating-procedures. To create HTML outputs with new and different looks, simply copy the existing example procedure and add your own style and flare by adjusting template switches and by removing or adding to the various "sections" incorporated into our example procedures.

#### Select Single Or Multiple Email Addresses

Select one or more email addresses from the email browse(s) using standard MS Windows record marking and an .HTML file written ahead of time using CHTSNAPEDIT.EXE or generated by one of this application's HTML-generating procedures.

When "Send" is invoked, on a group of selected records, the HNDNETSMTP.DLL sends the HTML email body to the addresses selected. Each email is processed and a success or failure outcome string is written into the email file. Images inserted into the email body are processed and included as always.

CHT Bulk Net Mail Promo is able to import email addresses exported from other applications such as Windows Live Mail. And up to 9 different email address source files can be maintained in this application. These files are shared with CHT Bulk Mail Batcher.

Preconfigure your SMTP email-send account beforehand and select that account for sending before attempting to send any mail.

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**Name:** HNDBULKSIGNER.APP  
**Build:** Bulk Code Signing Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDBULKSIGNER.APP](#)  
**Templates:** [Templates In Application HNDBULKSIGNER.APP](#)  
**Description:**

This "CHT Utility Application", CHT Bulk Code Signing Tool, is a batch-oriented approach to code signing your .EXE, .DLL and \*.OCX binaries before final delivery.

Select a target directory containing several to-be-signed .EXE, .DLL or .OCX files; click select all, followed by the bulk sign button, and watch as in a few seconds the entire batch is signed with your designated code signing certificate.

Log files (\*\_SIGN.LOG) are created to document each executable as it is signed. If any single executable fails signing, an err file (\*\_SIGN.ERR) is created indicating what went wrong.

Don't have a code signing certificate? Create your own signing certificate, free of charge using CHT Code Signing Utility (HNDCODESIGN.EXE).

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**Name:** HNDBULKSMTPMAIL.APP

**Build:** Bulk SMTP Email [V10.17.11.0106]  
**Date:** 12/13/2017  
**Category** Email Example  
**Classes:** [Classes By Procedure In HNDBULKSMTPMAIL.APP](#)  
**Templates:** [Templates In Application HNDBULKSMTPMAIL.APP](#)  
**Description:**

This application is an example bulk mail processing tool. It uses CHT SMTP classes to provide email with mail-merge and optional email attachment capability. Attachments may also optionally include encryption and compression.

The application also includes a set of separate attachment encryption/decryption procedures. While attachment encryption is invoked on the fly as you send mail, the decryption procedure can be used to unencrypt attachments received from this application.

The Clarion Handy Tools offer a very broad spectrum of email support in the form of templates, OOP classes, examples and Jump Start procedures.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** **HNDCAL.APP**  
**Build:** HNDDates Class Demonstration [V10.17.11.0317]  
**Date:** 12/13/2017  
**Category** Dates And Calendars  
**Classes:** [Classes By Procedure In HNDCAL.APP](#)  
**Templates:** [Templates In Application HNDCAL.APP](#)  
**Description:**

This application demonstrates the use of a Clarion Handy Tools extension template called "EmbedDateFunctions". This template attaches a CHT OOP class to your procedure called "HNDDates" which is stored in HNDDATES.INC (header module) and HNDDATES.CLW (code module).

As usual, subscribers with a SOURCE code subscription receive the code module as well as the header. DLL version subscribers receive only the header module and the class code is in one of the CHT DLLs.

The application illustrates the syntax used to call many of the functions available in the HNDDates class. There are also two separate implementations of the calendar showing how you can modify the look of the CHT calendar by calling methods like OBJ.SetCalendarIcon() and embedding new calendar image properties in that method.

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**Name:** **HNDCALCULATOR.APP**  
**Build:** CHT Calculator Demo [V10.17.11.0287]  
**Date:** 12/13/2017  
**Category** Calculators  
**Classes:** [Classes By Procedure In HNDCALCULATOR.APP](#)  
**Templates:** [Templates In Application HNDCALCULATOR.APP](#)  
**Description:**

This application illustrates a pair of related CHT templates called EmbedCalculatorFunctions and HandyCalcEntryControl\_ECF.

Extension template EmbedCalculatorFunctions attaches a CHT class called HNDCalcControl to your application procedure, making its functions available to the procedure.

Control template HandyCalcEntryControl\_ECF drops an entry control and a button on your procedure window. These controls work in tandem. A numerical value in the entry control is passed to the calculator - accessed via the button control - and the calculator passes a calculated result back into the control. A thread option on the template provides for passing data back to the entry control without closing the calculator, which can be left open on top of the application window.

Until the the close of 4th quarter 2008, this template and the HNDCalcControl class should be considered beta and feature incomplete. If you have feature suggestions, for the class or the templates, please do feel free to make them on the CHT forum using the "Suggestions" setting.



Any questions, feel free to ask them on the CHT forum.  
Gus M. Creces  
The Clarion Handy Tools Page

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**Name:** HNDCDODM.APP  
**Build:** CDO Send Mail With Interface [V10.17.11.0233]  
**Date:** 12/13/2017  
**Category:** Email Example  
**Classes:** [Classes By Procedure In HNDCDODM.APP](#)  
**Templates:** [Templates In Application HNDCDODM.APP](#)  
**Description:**

his application illustrates a CHT class called HNDMSCDO (HNDMSCDO.INC/CLW) which uses the MS Windows Collaboration Data Objects to send email using the default email client established on your system.

The email template illustrated is EMBEDCDOMAILFUNCTIONS.

Procedure CDOSendMailWithInterface() attaches the HNDMSCDO class via a CHT template called EmbedCDOMailFunctions. The resulting procedure can be attached to any application to create a robust, run-ready, custom, email procedure complete with user interface using our Jump Start Template interface, "CDO Email Send".

CDO Email provides for adding attachments to your emails where the attachment may not be located locally, such as files situated on password protected (or not) ftp servers, http servers, https servers.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDCDROMEXAMPLE.APP  
**Build:** Handy Backup To CDROM [V10.17.11.0369]  
**Date:** 12/13/2017  
**Category:** CDROM Burning  
**Classes:** [Classes By Procedure In HNDCDROMEXAMPLE.APP](#)  
**Templates:** [Templates In Application HNDCDROMEXAMPLE.APP](#)  
**Description:**

\*\*\* NEW AUGUST 2010 \*\*\*

This application uses CHT template EmbedHNDCDROMClass and multiple copies of HandyRegionButton.

With this application it is possible to select (or drag and drop) one or more directories to be backed up to CD ROM. Note that sub-directories of selected directories are automatically backed up too.

Target CDROM disks may be CD-R, CD-RW, DVD-R, DVD-RW and other, less commonly used variations of these.

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**Name:** HNDCDROMTEST.APP  
**Build:** Handy Backup To CDROM [V10.17.11.0155]  
**Date:** 12/13/2017  
**Category:** CDROM Burning  
**Classes:** [Classes By Procedure In HNDCDROMTEST.APP](#)  
**Templates:** [Templates In Application HNDCDROMTEST.APP](#)  
**Description:**

\*\*\* NEW AUGUST 2010 \*\*\*

This application uses CHT templates EmbedHNDCDROMClass, HandyMarkerBrowse and HandyMarkerBrowseRecordTagger.

With this application it is possible to select one or more directories to be backed up to CD ROM. Note that sub-directories of selected directories are automatically backed up too.

Once directories are inserted to the "Backup Directories" list, it is possible to include or exclude any directory from the backup list by checking or unchecking, respectively.

Target CDROM disks may be CD-R, CD-RW, DVD-R, DVD-RW and other, less commonly used variations of these.

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**Name:** HNDCHATCLNT.APP  
**Build:** CHT Chat Client [V10.17.11.1646]  
**Date:** 12/13/2017  
**Category** Internet - JSON  
**Classes:** [Classes By Procedure In HNDCHATCLNT.APP](#)  
**Templates:** [Templates In Application HNDCHATCLNT.APP](#)  
**Description:**

This application, called HNDCHATCLNT.APP, is a client chat application designed to interact with a companion, server application called HNDCHATS.V.APP,

This application uses CHT-original classes called HND SOCKET and HNDJSON. It has been built to contrast an SV example application called QuickChat.APP which uses SV-provided socket and JSON data transfer classes.

We're using this application for study purposes and to act as a robustness testing platform for Socket connection and JSON classes of our own design. We found after considerable study that SVs JSON and SOCKET classes just weren't up to CHT standards in flexibility and robustness. So we built our own from scratch.

We also separated the server and client functionalities into two applications. This way, one centrally placed, duty server can handle hundreds of clients, the way Skype and other chat functionalities do it.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDCHATS.VR.APP  
**Build:** CHT Chat Server 74:8088 [V10.17.11.1375]  
**Date:** 12/13/2017  
**Category** Internet - JSON  
**Classes:** [Classes By Procedure In HNDCHATS.VR.APP](#)  
**Templates:** [Templates In Application HNDCHATS.VR.APP](#)  
**Description:**

This application, called HNDCHATS.VR.APP is a chat server designed to interact with a companion, client application called HNDCHATCLNT.APP,

It uses CHT-original classes called HND SOCKET and HNDJSON. It has been built to contrast an SV example application called QuickChat.APP which uses SV-provided socket and JSON data transfer classes.

We're using this application for study purposes and to act as a robustness testing platform for Socket connection and JSON classes of our own design. We found after considerable study that SVs JSON and SOCKET classes just weren't up to CHT standards in flexibility and robustness. So we built our own from scratch.

We also separated the server and client functionalities into two applications. This way, one centrally placed, duty server can handle hundreds of clients, the way Skype and other chat functionalities do it.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDCLEAN.EXE  
**Build:** CHT Clarion Gen-Code Cleaner -- Version: 21.17.02.05  
**Date:** 12/13/2017  
**Category** Application Snap-Ins  
**Description:**

This "CHT Snap-In" utility is part of CHT's "written-in-C#" group of CMD-line utilities. It is classed as a "CHT Batch Bot" for documentation purposes, since this class of utility may be run independently from the DOS command-line, a Windows batch file, or from inside a Clarion IDE Tools menu.

HNDCLEAN.EXE source code, because it is not in Clarion app format, is available from CHT via special request in the form of a C# wizard. Once imported as a project into Visual Studio, the developer can customize the application to his own specifications should that ever be necessary.

HNDCLEAN.EXE (AKA: CHT Clarion Gen-Time Code Cleaner), is a replacement for the Clarion IDE's inadequately functioning "Clean Solution" operation. It erases APPNAME\*.CLW and APPNAME\*.OBJ files, and more, when configured to match the IDE's .RED file [RELEASE] or [DEBUG] configurations.

HNDCLEAN.EXE can be installed to the IDE's "External Tools" interface under the name "CHT Clarion Gen-Code Cleaner". The "Arguments" field should be completed as explained in our document located at <http://www.cwhandy.ca/howtousehndclean.htm>.

If you've made modifications to your application that requires the application to fully regenerate, with this tool installed, you can erase the .CLW and .OBJ files associated with the application currently loaded. Then by using the IDE's "Build Generate and Make" menu, the entire application is regenerated from scratch, and compiled with all hand-embedded changes and template interface changes being correctly applied.

Contact CHT at: [support@cwhandy.ca](mailto:support@cwhandy.ca) for price and availability of C# source code information.

Gus M. Creces  
The Clarion Handy Tools Page  
<http://www.cwhandy.ca>  
<http://news.cwhandy.ca>

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**Name:** HNDCLIENTCL.APP  
**Build:** Data Client TYPE 3 (Forum) [V10.17.12]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTCL.APP](#)  
**Templates:** [Templates In Application HNDCLIENTCL.APP](#)  
**Description:**

This application is a CHT web Client application to be used with HNDCLIENTSV.APP - a web client server app - to provide messaging and support services using the same data tables as HNDMTSNG.APP the Browser Server that provides our web-based support forum. The app uses a dictionary called HNDCLIENTSV.DCT.

This client application serves to illustrate how to log in and then make a variety of data requests and data updates from a Clarion client application (using the HNDCLNT class) to a CHT Server configured for Client Server Mode. This application and accompanying server provide the theoretical backdrop for the CHT Client Server course.

NOTE: This client uses a two-piece login (Serial number, Last Name) and does not require the email address. The server (HNDCLIENTCL.APP) omits the Email Address Key on the server login configuration dialog to make this possible.

This applicaiton uses templates HandyWebClientBrowseProcedure and HandyWebClientUpdateFormProcedure to build the web browse and web update form, respectively.

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**Name:** HNDCLIENTCLEAN.APP  
**Build:** Web Data Client Lean [V10.17.11.0259]  
**Date:** 12/13/2017  
**Category:** Internet - HTTP Clients  
**Classes:** [Classes By Procedure In HNDCLIENTCLEAN.APP](#)  
**Templates:** [Templates In Application HNDCLIENTCLEAN.APP](#)  
**Description:**

This application is an example CHT Client application to be used with HNDCLIENTSVLEAN.APP. The application is a connection mechanism only, to which the developer should attach his browses, forms, reports and so on. This "lean" version client has had all non-essential componentry removed and focusses entirely on CHT templates required to build a CHT Web Client.

The application dictionary is HNDCLIENTSVLEAN.DCT.

The server, HNDCLIENTSVLEAN.APP, is an example Client Server with no data views, so it is expected that the developer will use that server (saved under a different name) to act as the basis for his Client server views. This "lean" version server has had all non-essential components removed and focusses entirely on the CHT templates required to build a CHT Web Server.

Once that server contains at least one completed data view, then this application (saved under a different name) can begin to act as the basis for an HTTP client that connects to your new server and displays its views.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDCLIENTCLEAN1VIEW.APP  
**Build:** Data Client TYPE 3 (Views) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTCLEAN1VIEW.APP](#)  
**Templates:** [Templates In Application HNDCLIENTCLEAN1VIEW.APP](#)  
**Description:**

This application is an example CHT Client application to be used with HNDCLIENTSVLEAN4VIEW.APP (the server). This application illustrates a single Web browse, one Web form, one Web process and one Web report built on a single back-end server views.

The server, HNDCLIENTSVLEAN4VIEW.APP, is an example Client Server with multiple back-end data views built on several .TPS based demo files called "People", "Folks", "Product" and "NGMember" used in other CHT demo applications.

While this 1-view application accesses only one of that server's four views, other applications planned in this series, will successively access 2 views, 3 views and finally 4 views. This series of 4 client applications and the server (HNDCLIENTSVLEAN4VIEW.APP) will be used to create a training video series and a set of support documents to teach development of CHT Client Server applications.

This client's browse uses exclusively PopFavoriteQueries\_CSBL to accompany ClientServerBrowseListBox.

ClientServerBrowseListBox populates the QueryParsingFilterControl Template template natively, but to illustrate how it can be done, we've manually pulled the QPFC off these browses and replaced them with the PopFavoriteQueries\_CSBL template to handle all queries.

Use this Client and it's accompanying server as a study example when you begin building your own CHT Web Client Server applications.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDCLIENTCLEAN4VIEW.APP  
**Build:** Data Client TYPE 3 (Views) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTCLEAN4VIEW.APP](#)  
**Templates:** [Templates In Application HNDCLIENTCLEAN4VIEW.APP](#)  
**Description:**

This application is an example CHT web Client application to be used with HNDCLIENTSVLEAN4VIEW.APP. The application illustrates four Web browses, one Web form, one Web process and one Web report built on four separate back-end server views.

The server, HNDCLIENTSVLEAN4VIEW.APP, is an example Client Server with four back-end data views built on a several .TPS based demo files called "People", "Folks", "Product" and "NGMember" used in other CHT demo applications.

This client's browses use exclusively PopFavoriteQueries\_CSBL to accompany

## ClientServerBrowseListBox

ClientServerBrowseListBox populates the QueryParsingFilterControl Template template natively, but to illustrate how it can be done, we've manually pulled the QPFC off these browses and replaced them with the PopFavoriteQueries\_CSBL template to handle all queries.

Use this Client and it's accompanying server as a study example when you begin building your own CHT Web Client Server applications.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDCLIENTSV.APP  
**Build:** Client Data Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTSV.APP](#)  
**Templates:** [Templates In Application HNDCLIENTSV.APP](#)  
**Description:**

This application demonstrates a CHT Server acting as an interactive, remote data server to a Clarion client application. Specifically this server packages MESSAGES data so that it may be browsed, edited, and reported remotely, not from a browser but from a standard Clarion desktop application.

This server application requires a matching demonstration client called HNDCLIENTCL.APP and a dictionary called HNDCLIENTSV.DCT.

The server provides both compressed and encrypted data streams consisting of browse data, form data, report and process data based on interactive queries placed from the client side targeted at pre-determined data views (single or multi-table) provided in the server. This application is entirely template-built and contains almost no hand-embedded code.

NOTE: This server is configured for a two-piece login. It omits the Email Address Key on the BrowserServerInitialization controls template. In a two-piece login only the Login ID and Last Name (in this case) are used. This is a client server for reading and posting remote messages -- from which to both learn and with which to build forward. The back end views portions of the server are already installed and working.

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**Name:** HNDCLIENTSVLEAN.APP  
**Build:** Client Data Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTSVLEAN.APP](#)  
**Templates:** [Templates In Application HNDCLIENTSVLEAN.APP](#)  
**Description:**

This application is designed to act as a starting point for all CHT "Client Servers" intended to provide interactive, remote data services to a Clarion client application. The developer can begin adding server-side views to this without having to design any of the server "plumbing" such as configuration or server client maintenance.

This special "lean" version has had all non-essential componentry removed and focusses entirely on CHT templates and classes required to build a fast, efficient CHT Client Data Server.

This server application has a matching demonstration client called HNDCLIENTCLEAN.APP. Since the server has no views for the client to connect to, this client contains only basic connection capability. The application dictionary is HNDCLIENTSVLEAN.DCT.

This server is able to provide both compressed and encrypted data streams consisting of browse data, form data, report and process data based on interactive queries placed from the client side targeted at pre-determined data views (single or multi-table) that the developer adds into the server.

This application is entirely template-built and jumpstart-built and contains almost no

hand-embedded code.

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**Name:** HNDCLIENTSVLEAN1VIEW.APP  
**Build:** Client Data Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTSVLEAN1VIEW.APP](#)  
**Templates:** [Templates In Application HNDCLIENTSVLEAN1VIEW.APP](#)  
**Description:**

Despite its name, this application is a four view elaboration of our starting point server, HNDCLIENTSV.APP. Using the PEOPLE, FOLKS, MEMBER and PRODUCT files, illustrates adding back end views and the templates and settings required to do that.

The developer can add multiple server-side views to a server of this sort (HNDCLIENTSV.APP) without having to design any of the server "plumbing" such as configuration or server client maintenance.

This server application has a matching demonstration client called HNDCLIENTCLEAN1VIEW.APP, which illustrates connecting to this server and browsing its VIEWS across the web.

This server is able to provide both compressed and encrypted data streams consisting of browse data, form data, report and process data based on interactive queries placed from the client side targeted at pre-determined data views (single or multi-table) that the developer adds into the server.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDCLIENTSVLEAN4VIEW.APP  
**Build:** Client Data Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDCLIENTSVLEAN4VIEW.APP](#)  
**Templates:** [Templates In Application HNDCLIENTSVLEAN4VIEW.APP](#)  
**Description:**

Following its name, this application is a four view elaboration of our starting point server, HNDCLIENTSV.APP. Using the PEOPLE, FOLKS, MEMBER and PRODUCT files, illustrates adding back end views and the templates and settings required to do that.

The developer can add multiple server-side views to a server of this sort (HNDCLIENTSV.APP) without having to design any of the server "plumbing" such as configuration or server client maintenance.

This server application has a matching demonstration client called HNDCLIENTCLEAN1VIEW.APP, which illustrates connecting to this server and browsing its VIEWS across the web.

This server is able to provide both compressed and encrypted data streams consisting of browse data, form data, report and process data based on interactive queries placed from the client side targeted at pre-determined data views (single or multi-table) that the developer adds into the server.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDCLSDOCGEN.APP  
**Build:** XML2HTML Classes Docs Gen [V10.17.11]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDCLSDOCGEN.APP](#)  
**Templates:** [Templates In Application HNDCLSDOCGEN.APP](#)

## Description:

This "CHT Utility Application" is used internally at CHT to read through our class header files to gather class descriptive information which is then stored into an .SQLITE table so that it can be browsed and queried.

The application also generates HTML versions of this information for use in our website. These files are called chtclasses.html and chtclassesbyname.html.

Key templates illustrated: ExplorerBrowse, QueryParsingFilterControl, EmbedDiskFunctions, EmbedFilterFunctions, HandySourceProcedure and EmbedStandardWebPageHeader.

NOTE: The work of more fully documenting the CHT Classes is an on-going effort. This documentation automation tool is part of that effort. The design of this application has been closely modelled on the HNDTPLDOCGEN.APP with which we extensively document our toolkit's templates.

The key difference in this application is that it creates an .SQLITE table the contents of which are generated directly into HTML documents. There is no intermediate text representation of the documents as in HNDTPLDOCGEN.APP

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**Name:** HNDCMCAL.APP  
**Build:** COM Calendar Demo [V10.17.11.0209]  
**Date:** 12/13/2017  
**Category:** Dates And Calendars  
**Classes:** [Classes By Procedure In HNDCMCAL.APP](#)  
**Templates:** [Templates In Application HNDCMCAL.APP](#)  
**Description:**

This application demonstrates a CHT COM Class Wrapper called HNDMsCalClass. It provides a full-feature interface to the MSCAL.OCX ICalendar control. See HNDMSCAL.INC, HNDMSCAL.CLW and HNDMSCAL.TLB to study the header, code module and method interfaces respectively.

A CHT control template called HandyCOMCalendarControl helps you drop this control onto any application window and instantiate a Clarion-style interface to the OCX ICalendar control.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDCMP.APP  
**Build:** Clarion Project Builder Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDCMP.APP](#)  
**Templates:** [Templates In Application HNDCMP.APP](#)  
**Description:**

This "CHT Utility Application" comes to you courtesy of The Clarion Handy Tools Page. It has been rebuilt from the ground up to interact with CLARIONCL.EXE (Clarion EE Edition Only) and to help you automate your development projects.

With Clarion Project Builder you can perform the following operations directly without having to open your applications to change their internal configuration settings:

- 1) Switch between EXE and DLL compilation of an app
- 2) Assign a DLL memory load address for your DLL (Optional)
- 3) Change link mode from LIB (library) to DLL
- 4) Switch app compile between Debug and Release mode
- 5) Switch app compile between expiration and non-expiration mode
- 6) Switch from HNDFBACK.TRN (English) to HNDCUSTOM.TRN (User)
- 7) Adjust processor affinity of the EXE for multi processor machines
- 8) Assign code signing information into the executable
- 9) Export the app to TXA
- 10) Compress the executable [Optional]
- 11) Copy the executable to a configured target directory

- 12) Stop compilation on error or continue to next
- 13) Generate app discovery HTML into a configured target directory
- 14) View a compile log for each application giving full details of what happened during compile, code-signing, affinity assigning and compression.

CHT Clarion Project Builder requires that the HNDTOOLS.TPL (template) be present in your Clarion template directory and a CHT template called HNDCMPControlPanel be applied to your applications. This template and file are supplied only to full-fledged CHT subscribers.

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**Name:** HNDCODESIGN.APP  
**Build:** Code Signing Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDCODESIGN.APP](#)  
**Templates:** [Templates In Application HNDCODESIGN.APP](#)  
**Description:**

This "CHT Utility Application" can be used to create and install a self-created code signing certificate.

If you distribute applications to a limited customer base that you can supply with an installable security certificate created by your company, there's really no need to purchase an expensive code signing certificate from a company like COMODO and VERISIGN.

You can self-create a certificate with this application, code-sign your applications and supply the certificate to your clients for installation with your installation.

This application includes the template CHTBestPracticeEmbedClass as an example for developers to study.

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**Name:** HNDCPYDM.APP  
**Build:** Copy, Move, Rename, Compress, Encrypt [V10.17.11.0230]  
**Date:** 12/13/2017  
**Category:** File Moving, Copying  
**Classes:** [Classes By Procedure In HNDCPYDM.APP](#)  
**Templates:** [Templates In Application HNDCPYDM.APP](#)  
**Description:**

This application demonstrates the following JumpStart Functions:

- \* JumpStartBulkFileCompressExpandWithProgress() - Bulk file compression and expansion with optional encryption and decryption
- \* JumpStartBulkFileContainerizeWithProgress() - Bulk file compression to a container (.HZO) file with optional encryption.
- \* JumpStartBulkFileDeContainerizeWithProgress() - Bulk file decompression from container (.HZO) file
- \* JumpStartBulkFileCopyWithProgress() - Bulk file copying to a target directory
- \* JumpStartBulkFileEncryptDecryptWithProgress() - Bulk file encryption/decryption with optional compression/decompression
- \* JumpStartBulkFileEraseWithProgress() - Bulk file removal
- \* JumpStartBulkFileMoveWithProgress() - Bulk file moving
- \* JumpStartBulkFileRenameWithProgress() - Bulk file renaming

A query allows you to describe the files to be acted on. Or files to be acted on may be dropped from MS Explorer.

Any questions, feel free to ask: news.cwhandy.ca

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**Name:** HNDDIGITALCLOCKDEMO.APP  
**Build:** CHT Digital Clock Demo [V10.17.11.0214]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Clocks  
**Classes:** [Classes By Procedure In HNDDIGITALCLOCKDEMO.APP](#)



**Templates:** [Templates In Application HNDDIGITALCLOCKDEMO.APP](#)

**Description:**

This application illustrates use of a CHT template called HandyComDigitalClockControl. The template drops an OLE container on your application window and renders an active digital clock inside the container.

To do achieve this, the template invokes a CHT COM wrapper class called HNDDigitalClockClass which loads and calls into a CHT COM DLL called HNDGTLCLOCK.OCX.

No coding is required. Standard Clarion sizing and hiding properties apply to the digital clock container.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDDOCUMENTBUILDER.APP

**Build:** XML2HTML Docs Builder Utility [V10.17.11]

**Date:** 12/13/2017

**Category:** XML2HTML

**Classes:** [Classes By Procedure In HNDDOCUMENTBUILDER.APP](#)

**Templates:** [Templates In Application HNDDOCUMENTBUILDER.APP](#)

**Description:**

This "CHT Utility Application", CHT HTML Document Builder, is an excellent tool for creating HTML documents, for example, book chapters, manuals, and standard, static web pages. It creates portable documents that do not need to access the web in order to pick up CSS classes to handle formatting. These are generated by this application and travel inside the document.

To create a PDF of any HTML document generated by CHT HTML Document Builder, just print it to disk with Windows native PDF printer driver.

**Style Sheet Generating Template**

This application illustrates a new template that allows the developer to change every important aspect of numerous useful HTML style sheets so that different "looks" can easily be incorporated into different HTML-generating-procedures. To create HTML outputs with new and different looks, simply copy the existing example procedure and add your own style and flare by adjusting template switches and by removing or adding to the various "sections" incorporated into our examples.

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**Name:** HNDRLDN.APP

**Build:** SQL Drill-Down Locator Examples [V10.17.11.0250]

**Date:** 12/13/2017

**Category:** Querying, Locating And Filtering

**Classes:** [Classes By Procedure In HNDRLDN.APP](#)

**Templates:** [Templates In Application HNDRLDN.APP](#)

**Description:**

In this application, we're illustrating some new SQL "drill-down" capabilities build into the locators available for ExplorerBrowse, LocatorOverRideControl and HandyMarkerBrowse. When any of these locators is configured to act as a filtering locator you have the option of asking the template to remember the last locator query and to re-apply it with your next locator query. The more locates performed before the locator clear button is clicked, the deeper you drill down into the current data set.

A new feature on the HandyMarkerBrowseProcessButton and HandyMarkerBrowesReportButton templates lets you opt to have the marked record set translated into an SQL IN(x,y,z) request to be sent to a report or process rather than a queue of marked records. Default behavior is as before, to send a queue.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. You do not need a copy of the Microsoft Access to test this, and a copy of NORTHWIND.MDB is included in the install. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDROPDOWN.APP  
**Build:** Autocomplete Dropdown Example [V10.17.11.0216]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Field AutoComplete  
**Classes:** [Classes By Procedure In HNDROPDOWN.APP](#)  
**Templates:** [Templates In Application HNDROPDOWN.APP](#)  
**Description:**

This application demonstrates the use of a Clarion Handy Tools Template called HandyFieldAutoCompleteControl. This is a control template that autocompletes a form field from values already available in another file.

In this case, we're autocompleting a "State Name" field from a file called hndstatesnew.tps. By simply typing 3 or 4 letters into this field a dropdown appears which displays the closest matches for the typed value. By continuing to type beyond 4 characters a matching value is brought into your autocomplete control.

Alternatively, with the down arrow key, you can scroll down into the dropdown control to select one of the values that appear there.

Adding to the autocomplete file: If you type a unique value and press CtrlEnter, the entered value is added to the autocomplete source file.

Deleting from the autocomplete file: If you bring an existing value from the autocomplete file into the autocomplete entry control and press CtrlDelete you are able to delete a value from the autocomplete source file.

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**Name:** HNDTPK.APP  
**Build:** Demonstrate HNDDatePicker Class [V10.17.11.0213]  
**Date:** 12/13/2017  
**Category:** Dates And Calendars  
**Classes:** [Classes By Procedure In HNDTPK.APP](#)  
**Templates:** [Templates In Application HNDTPK.APP](#)  
**Description:**

This application demonstrates a CHT COM Class Wrapper called HNDDatePicker. It provides a full-feature interface to the COMCTL32.OCX IDatePicker control. See HNDTPKR.INC, HNDTPKR.CLW and HNDTPKR.TLB to study the header, code module and method interfaces respectively.

A CHT control template called HandyCOMDatePickerControl helps you drop this control onto any application window and instantiate a Clarion-style interface to the OCX IDatePicker control.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDUN.APP  
**Build:** CHT HNDIDial Class Demonstration [V10.17.11.0202]  
**Date:** 12/13/2017  
**Category:** Internet - Connectivity  
**Classes:** [Classes By Procedure In HNDUN.APP](#)  
**Templates:** [Templates In Application HNDUN.APP](#)  
**Description:**

This application uses a template called "EmbedHndIDialClass" to connect a CHT class called HNDIDIAL to your applications. HndIDial is a generic internet connection class that will handle internet connectivity in your windows applications regardless of the type of connection. If necessary, this class can handle user-intervention or non-user-intervention connections to a dialup connection through a modem or to a network connection via LAN.

HNDIDial can be used alone, as it is here, or in combination with other classes. The CHT tool kit classes, HNDIMail, HNDIftp and HNDHttp automatically derive HNDIDial for you in order to handle connectivity issues.

See the header file HNDIDIAL.INC for a list of properties and methods available.

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**Name:** HNDENCRYPT.APP  
**Build:** File Encryption Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDENCRYPT.APP](#)  
**Templates:** [Templates In Application HNDENCRYPT.APP](#)  
**Description:**

This "CHT Batch Bot" application runs from the DOS prompt or can be called from another application using Clarion RUN, or from a batch file or windows .VBS script. It accepts several command line parameters that describe the input file and and output path.

HNDENCRYPT.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

HNDENCRYPT.EXE command-line parameters are as follows:

```
** HELP
--help
    [OPT] Pops up a splash help screen.
--video
    [OPT] Display a video or a document from the web which
    further explains use of the application.
--update
    [OPT] Self-updates to the latest available version from CHT
    servers. Utilizes CHTSNAPGET.EXE if / when invoked.

** ENCRYPT/DECRYPT
--input
    [REQ] Path and name of input file.
    If the path is omitted, the .EXE path is assumed.
--output
    [REQ] Output path only - local to this exe if omitted.
--mode
    [OPT] Encode or decode - defaults to encode if omitted.
--key
    [OPT] Encrypting password - read from registry if omitted.
```

The output file name is formatted from the input file with a .hzy extension. For example: test.pdf becomes testpdf.hzy.

The encrypted file is both compressed and encrypted by the operation of this CHT Batch Bot application. This operation is performed in a single pass whether encoding or decoding.

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**Name:** HNDEVENTLOGGERDEMO.APP  
**Build:** HandyComEventLoggerControl [V10.17.11.0203]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Event Logging  
**Classes:** [Classes By Procedure In HNDEVENTLOGGERDEMO.APP](#)  
**Templates:** [Templates In Application HNDEVENTLOGGERDEMO.APP](#)  
**Description:**

This application demonstrates error, warning and information logging to the Windows System Application Log. It demonstrates a control template called HandyComEventLoggerControl which places a CHT COM Event Logger Control from HNDEVENTLOGGER.DLL on your application window.

CHT's Event Logger Control provides an easy-to-use COM interface inside your application procedures for writing Events, Errors and Warnings to the SYSTEM APPLICATION LOG where they can be found and read using EVENTWVR.MSC.

See HNDEVEER.INC, HNDEVEER.CLW and HNDEVEER.TLB to study the header, code module and method interfaces respectively.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNEVENTSERVER.APP  
**Build:** Browser Server TYPE 1 (Basic) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 1  
**Classes:** [Classes By Procedure In HNEVENTSERVER.APP](#)  
**Templates:** [Templates In Application HNEVENTSERVER.APP](#)  
**Description:**

This application is a dynamic-page, fully end-user-interactive, web server. For study by beginners, this basic "Browser" server has only one view and one web browse started from a simple query-by-link query page.

The fundamental principles and practices of this server's design are pure ABC. If you understand Clarion, and ABC Object Oriented Principles, you can duplicate a server of this type using The Clarion Handy Tools. It may be used as the basis for building forward any other type of "Browser" server design or simply as a model on which to base a new design.

Web scripts constituting the "user interface" for this "Browser" server are built, as usual, using CHT Scripiter. These scripts are fully previewable and are live-data-interactive during script modification and testing.

CHT Servers of this type do not rely on any generic web server software like Microsoft Internet Information Server. Our servers tie directly into the TCP/IP libraries built into the Windows NT/XP/Vista operating systems. Beyond that, all Internet listening, sending activities, data packaging, compression, encryption and so forth are written in Clarion OOP source code available as part of CHT's standard installation.

Principle server templates in use are: EmbedBrowserServer and BrowserServerInitializationControls, accompanied by a group of page-builder templates that are able to generate XHTML or pure Javascript Data Objects. Included with the CHT Tool Kit is a multi-function editor/scripiter (HNDSRPT.APP) which is used to design the client-side/browser side pages and forms, including CSS (Cascading Style Sheets) and JS (Javascript) Subroutines.

NOTE: This is a TYPE 1 browser server medical events server -- from which to learn and with which to build forward. Some back end views portions of the server are already installed and working.

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**Name:** HNEXPLORERSQLJOINTEST.APP  
**Build:** ExplorerBrowse SQL Joins Demo [V10.17.11.0177]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNEXPLORERSQLJOINTEST.APP](#)  
**Templates:** [Templates In Application HNEXPLORERSQLJOINTEST.APP](#)  
**Description:**

This application is designed to illustrate cascading joins on a CHT Explorerbrowse. It shows how to configure up to 4 browses (1 parent and 3 children) which must each reset when the parent is reset but which then must also reset the each of the child browses below them in a top to bottom cascade.

TOPMOST (PARENT) resets all child browses  
LEVEL 1 CHILD resets LEVEL 2 and LEVEL 3 CHILD  
LEVEL 2 CHILD Resets LEVEL 3 CHILD

This application may be combined with HNDSQLTRACE to see the SQL being triggered as browses are reset through navigation, query, and order change. CHT Explorerbrowse optimizes and reduces the counter-productive SQL "Chatter" that normally issues from ABC Browse Class during SQL resets.

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**Name:** HNEXPLORERSQLTEST.APP  
**Build:** ExplorerBrowse SQL Query Demo [V10.17.11.0184]  
**Date:** 12/13/2017

**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HINDEXPLORERSQLTEST.APP](#)  
**Templates:** [Templates In Application HINDEXPLORERSQLTEST.APP](#)  
**Description:**

This application demonstrates CHT ExplorerBrowse used in an SQL setting.

It illustrates these concepts:

- \*\*\* A CHT ExplorerBrowse Template
- \*\*\* A CHT QueryParsingFilterControl Template
- \*\*\* A CHT ExplorerBrowseLocatorControlEx Template
- \*\*\* A CHT ExplorerBrowseQueryBuilder Template
- \*\*\* A CHT ExplorerBrowseOneColumnQueryControl Template

This application can be used in conjunction with HNDSQLTRACE.EXE to explore at the SQL Select level what happens a browse is opened, reordered, queried and so on.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDZMAPI.APP  
**Build:** CHT Easy MAPI Send Example [V10.17.11.0224]  
**Date:** 12/13/2017  
**Category:** Email Example  
**Classes:** [Classes By Procedure In HNDZMAPI.APP](#)  
**Templates:** [Templates In Application HNDZMAPI.APP](#)  
**Description:**

This application demonstrates a CHT COM Class Wrapper Template called HNDCOMMAPICONTROL.

It provides a full-feature interface to the MSMAPI32.OCX control. See HNDMAPI.INC, HNDMAPI.CLW and HNDMAPI.TLB to study the header, code module and method interfaces respectively.

A CHT control template called HandyComMapiControl helps you drop this control onto any application window and instantiate a Clarion-style interface to this COM Mapi Email control.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDFAVORITER.APP  
**Build:** CHT FavorRiter [V10.17.11.0317]  
**Date:** 12/13/2017  
**Category:** Windows Favorites Utility  
**Classes:** [Classes By Procedure In HNDFAVORITER.APP](#)  
**Templates:** [Templates In Application HNDFAVORITER.APP](#)  
**Description:**

This "CHT Utility Applicaiton" reads MS Internet Explorer Favorites into a Topspeed file and provides a set of tools to organize and edit them.

Once organized, favorites can be exported selectively or entirely to a desktop folder called "Favorites1", "Favorites2", and so on, organized by topics as determined by the user.

The exported folder does not interfere in any way with the existing MS Internet Explorer favorites. Yet the folder produced can be used to access favorites directly without first needing to open I.E.

The "Favorites" folders produced can be zipped and shared with others in whole or in part.

Local documents and applications and even email addresses can be installed as favorites. These, naturally, are less portable than remote web addresses, unless they're located in the same directory structure on the machine of a recipient of your "Favorites" folder.

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**Name:** HNDFBACKBUILDER.APP  
**Build:** Translation File (TRN) Builder [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDFBACKBUILDER.APP](#)  
**Templates:** [Templates In Application HNDFBACKBUILDER.APP](#)  
**Description:**

This "CHT Utility Application" is a translation-file tool that every CHT developer who builds non-English applications will want to begin using right away.

In the past, when CHT shipped a HNDFBACK.TRN (CHT Classes Translation File) that contained some new variables, it was the responsibility of the developer to copy these new variables to their personal HNDCUSTOM.TRN to avoid missing-variable errors during compilation.

This application automates that once manual process.

By opening this application and importing their HNDCUSTOM.TRN under the appropriate language menu, developers are able to generate a new HNDCUSTOM.TRN which merges their personal HNDCUSTOM.TRN with the latest version of HNDFBACK.TRN. Already-translated variables replace the English language versions and new variables are present and marked as "NEW" to make them easy to find.

After merging, and generating a new HNDCUSTOM.TRN based on a combination of their already-translated variables and new ones from HNDFBACK.TRN, developers are able to continue using their own HNDCUSTOM.TRN without having to manually synch new variables to avoid compilation errors.

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**Name:** HNDFBLOB.APP  
**Build:** File To Blob Example [V10.17.11.0243]  
**Date:** 12/13/2017  
**Category:** File BLOB Functions  
**Classes:** [Classes By Procedure In HNDFBLOB.APP](#)  
**Templates:** [Templates In Application HNDFBLOB.APP](#)  
**Description:**

This application illustrates two blob functions, JumpStartFileToBlob() and JumpStartBlobToFile(), available from the standard AACHTControlPanel template interface.

Please note, that the code in the EntryPoint/Main() procedure has very little to do with file to blob or blob to file. This code looks up a file name to be sent to a blob and manages the data base that stores the blob record. Your blob data base may look nothing like the file ZStore that we are using here.

The salient point is that when calling the functions JumpStartFileToBlob() and its inverse, JumpStartBlobToFile(), you are responsible for creating, fetching and saving the data base records in the blob-containing data table. The functions provided, will insert the files to, and extract files independently from, your blob record. Data base I/O is up to you. However the I/O required is standard ABC stuff which you should already know how to do.

We have demonstrated here a couple of HNDisk class functions to help us with our popup menu, when someone selects a file to be restored or deleted, for example. These have no direct relationship with the two blob functions being demonstrated.

Any questions, feel free to ask: news.cwhandy.ca

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**Name:** HNDFILCL.APP  
**Build:** File Client TYPE 3 (Basic) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDFILCL.APP](#)  
**Templates:** [Templates In Application HNDFILCL.APP](#)  
**Description:**

This application is designed to act as a starting point for all CHT "Secure File Clients" intended to access basic login-enforced file upload and download services from a CHT

TYPE 3 file server application like HNDFILSV.APP and HNDFILSVLEAN.APP.

This "Basic" version has had all non-essential componentry removed and focusses entirely on CHT templates and classes required to build a fast, efficient CHT secure file client. It uses a 3-piece login.

This client application has two matching demonstration server called HNDFILSV.APP and HNDFILSVLEAN.APP which are enabled to provide secure upload and download services.

This client is able to provide both compressed and encrypted file movement services without requiring either pre-compression or pre-encryption of the upload or download files.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDFILECLIENTLEAN.APP  
**Build:** File Client TYPE 3 (Lean) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDFILECLIENTLEAN.APP](#)  
**Templates:** [Templates In Application HNDFILECLIENTLEAN.APP](#)  
**Description:**

This application is designed to act as a starting point for all TYPE 3 CHT "Secure File Clients" intended to access basic user-level login-enforced file upload and download services from a CHT file server application like HNDFILESERVERLEAN.APP.

This server utilizes a three-part login consisting of LAST NAME, SERIAL NUMBER and EMAIL ADDRESS that must match the same three values of a user in the server's "subscriber" data table.

This special "lean" version has had all non-essential componentry removed and focusses entirely on CHT templates and classes required to build a fast, efficient CHT secure file client.

This client application has a matching demonstration client called HNDFILESERVERLEAN.APP which is enabled to provide secure upload and download services. The server uses a dictionary called HNDFILERSERVERLEAN.DCT.

This client is able to provide both compressed and encrypted file movement services without requiring either pre-compression or pre-encryption of the upload or download files.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDFILESERVERLEAN.APP  
**Build:** File Server TYPE 3 (Lean) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDFILESERVERLEAN.APP](#)  
**Templates:** [Templates In Application HNDFILESERVERLEAN.APP](#)  
**Description:**

This application is designed to act as a starting point for all TYPE 3 CHT "Secure File Servers" intended to provide basic login-enforced file upload and download services to CHT file client applications.

This special "lean" version has had all non-essential componentry removed and focusses entirely on CHT templates and classes required to build a fast, efficient CHT Secure File Server.

The server has a configuration dialog to handle naming and locating the server's configuration and members files. It provides full control over which directories are visible to the client and which files are available for download by the client. A user browse and edit form are also provided for "subscriber" maintenance.

This server application has a matching demonstration client called

HNDFILECLIENTLEAN.APP which includes upload and download procedure examples. This server application uses dictionary called HNDFILESERVERLEAN.DCT.

This server is able to provide both compressed and encrypted file movement services without requiring either pre-compression or pre-encryption of the upload or download files. The client determines whether compression and encryption are used and this server is ready to comply to requests of this sort.

This application is entirely template-built and contains almost no hand-embedded code.

NOTE: This is a starting-point server from which to build forward. The "file transfer" portion of the server is already installed.

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**Name:** HNDFILSV.APP  
**Build:** File Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDFILSV.APP](#)  
**Templates:** [Templates In Application HNDFILSV.APP](#)  
**Description:**

This application is intended as a starting point for developers to build file transfer servers of various sorts that act like FTP servers but utilize the HTTP protocol including encryption and compression.

Several demo client applications are provided to CHT subscribers: HNDFLCLN.APP, HNDLIVUP.APP, HNDFILCL.APP and HNDINSTALLMYFILES.APP. Another client application called HNDHTGT.APP illustrates making on-the-fly file requests from this server using the HNDHTTP and HNDHTTPClient classes.

The server maintains complete control of which files and directories are visible to the client. File transfers are optionally compressed and/or encrypted at the request of the client application.

This is an "Authenticating" server. The client logs in by providing "LastName", "LoginID" and "EmailAddress". The server, unless reconfigured uses a member file called HNDFILSVMEM.TPS located in the \HNDAPPS\HNDFILSV directory. New members may be added as required to customize the users list.

This application is entirely template-built and contains almost no hand-embedded code.

NOTE: This is a starting-point server from which to build forward. The "file transfer" portion of the server is already installed and working.

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**Name:** HNDFILSVSPECIAL.APP  
**Build:** File Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDFILSVSPECIAL.APP](#)  
**Templates:** [Templates In Application HNDFILSVSPECIAL.APP](#)  
**Description:**

This application demonstrates primarily, the use of two Clarion Handy Tools Templates called EmbedBrowserServer and BrowserServerInitializationControls. This application uses a dictionary called HNDFILSV.DCT.

These extension/control templates provide TCP/IP connectivity with a browser or client application. In this particular example, application functionality has been limited to acting as an HTTP file transfer server. It requires a file transfer client to interact with it.

This "special" version of the HNDFILSV.APP server is dedicated to working with CHT demo app HNDINSTALLMYFILES.APP, which is a basic file client aimed at getting you to across-the-web app installation.

The server maintains complete control of which files and directories are visible to the client. File transfers are optionally compressed and/or encrypted at the request of the client application.



This application is entirely template-built and contains almost no hand-embedded code.

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**Name:** HNDFLCLN.APP  
**Build:** File Client TYPE 3 (Advanced) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDFLCLN.APP](#)  
**Templates:** [Templates In Application HNDFLCLN.APP](#)  
**Description:**

This application demonstrates primarily, the use of a Clarion Handy Tools class called HNDClient and a template called EmbedHTTPClientFunctions. This application uses no dictionary.

A combination of HTTP Client and Server are intended to take the place of FTP file transfer, providing much more secure and speedy file transfer services in both directions.

The application acts as secure file transfer client in combination with TYPE 3, authenticating servers called HNDFILSV.APP, HNDSVLV.APP and HNDFILSVLEAN.APP which act as secure file transfer servers.

It is an "Advanced" version client which includes a sophisticated login-configuration dialog, and separate upload and download procedures that include local and remote file lookups.

This client is able to provide both compressed and encrypted file movement services without requiring either pre-compression or pre-encryption of the upload or download files.

This application is entirely template-built and jumpstart-built and contains almost no hand-embedded code.

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**Name:** HNDFORUMVIEWERLITE.APP  
**Build:** Browser Client TYPE 1 (Forum) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 1  
**Classes:** [Classes By Procedure In HNDFORUMVIEWERLITE.APP](#)  
**Templates:** [Templates In Application HNDFORUMVIEWERLITE.APP](#)  
**Description:**

This "CHT Utility Application" applies primarily a CHT template called HandyComInternetExplorerControl. The template has been configured with specific web form settings that allow it to insert information directly into the web page variables having to do with login.

The application communicates with the CHT's Forum Login Page's DOM (Document Object Model) using methods provided in CHT class, HNDInternetExplorer.

CHT Forum Login information is assumed to already be in your system's registry, because your system has been configured for The Clarion Handy Tools by our WEBUPDATER tool.

Further, a set of popup selections containing pre-configured query macros is available for the forum postings (messages) page. These macros are again inserted directly into the correct web variables on the page followed by a page refresh request. This has the same effect as if the user typed these values directly into the posting page query control.

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**Name:** HNDFSYNC.APP  
**Build:** CHT File Synchronizer [V10.17.11.0159]  
**Date:** 12/13/2017  
**Category:** File Moving, Copying  
**Classes:** [Classes By Procedure In HNDFSYNC.APP](#)  
**Templates:** [Templates In Application HNDFSYNC.APP](#)  
**Description:**

This "CHT Utility Application" is a folder synchronizer capable of keeping the files in one

or more folders on your system or network in synch. In this implementation, file masks may be specified individually for each synch directory record.

Use it to periodically back up your CHT files to the standard accessory directory or to back up before a WEBUPDATER session. A pre-built sync file called hndfsyncc90.tps has been provided for this purpose.

This application illustrates the kinds of things that can be done with several CHT templates used in combination.

The major templates used are:

- \* EmbedDiskFunctions - to attach the HNDisk class
- \* ExplorerBrowse - to attach the HNDBrowse class
- \* EmbedWindowFunctions - to attach the HNDWindow class

Any questions, feel free to ask on the CHT forum: <http://news.cwhandy.ca/LOGS>

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**Name:** HNDFSYNCSERVICEDEMO.APP  
**Build:** CHT HNDFSYNC Starter Service [V10.17.11.0209]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNDFSYNCSERVICEDEMO.APP](#)  
**Templates:** [Templates In Application HNDFSYNCSERVICEDEMO.APP](#)  
**Description:**

This application, once configured, starts CHT backup application HNDFSYNCC8.EXE at the Start Time: indicated and creates a backup based on the .TPS Synch File provided. Use this application as a model for most hidden, background services required to perform some routine task on a regular schedule, as in this case a backup service.

To install this service application, at the DOS prompt type:  
HNDFSYNCSERVICEDEMO /IS or /INSTALL

To start the service once installed, at the DOS prompt type:  
HNDFSYNCSERVICEDEMO /SS or /START

To stop the service once installed, at the DOS prompt type:  
HNDFSYNCSERVICEDEMO /SP or /STOP

To remove the service once installed, at the DOS prompt type:  
HNDFSYNCSERVICEDEMO /RS or /REMOVE

See HNDSERVICEUP.APP and HNDSERVICEUPREMOTE.APP for examples of how to control and configure this service remotely from another application.

This application starts with it's window minimized and hidden. It's application icon appears on the Windows Task Bar from which it can be commanded. By unchecking the "Application In Tray" switch on the EmbedWindowFunctions template in the main procedure, this application can be made to run completely hidden, while still being configured remotely from HNDSERVICEUPREMOTE.APP or HNDSERVICEUP.APP.

Any questions, feel free to ask: [news.cwhandy.com](http://news.cwhandy.com)

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**Name:** HNDFTPNET.APP  
**Build:** FTP Command Utility (NET) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDFTPNET.APP](#)  
**Templates:** [Templates In Application HNDFTPNET.APP](#)  
**Description:**

This "CHT Batch Bot" application is a command-line FTP tool which can send, fetch and erase files to/from any standard FTP site. The application can be called from one of your Clarion applications, a Windows batch file or a Windows .VBS script to provide reliable single and multi file upload/download/services.

HNDFTPNET.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

HNDFTPNET.EXE is dependent on a CHT DLL called HNDFTPNET.DLL being present and visible on the system path, for its FTP capabilities.

The application communicates to this DLL via COM, requiring the HNDFTPNET.DLL to be registered on the host system. This DLL will auto-register on the host system when first called and found not to be registered.

#### CONFIGURING:

--config0  
[CFG] Set up FTP configuration information #0

--config1  
[CFG] Set up FTP configuration information #1

--config2  
[CFG] Set up FTP configuration information #2

--set0  
[CFG] Select and use configuration #0

--set1  
[CFG] Select and use configuration #1

--set2  
[CFG] Select and use configuration #2

#### COMMANDS:

--send  
[OPT] Provides file name of the local file to be uploaded.  
This file need not exist if used with the --mask tag to indicate that a pre-zip is performed using a mask.

--remote  
[REQ] Names the remote directory with which to interact.  
This is a required parameter which is formed as follows:  
/ftprootdir/subdir1/subdir2/

--local  
[OPT] Names a local directory when the --mask tag is used to describe one or more files for pre-zipping.  
Defaults to the application directory if omitted.

--pwd  
[OPT] Password used when pre-zipping with --mask.

--mask  
[OPT] DOS-style file mask (eg: \*.app) describes files to be zipped. Requires CHTSNAPZIP.EXE to be available.  
--send parameter must be .zip file name

--fetch  
[OPT] File name of a remote file to be downloaded.  
Use instead of --send or --erase when downloading.

--erase  
[OPT] Provides file to be erased from a remote directory.  
Use instead of --fetch and --send when deleting.

--list  
[OPT] Used by itself, this provides a file listing of the remote directory stipulated after the tag.  
E.G. --list /web/subdir/

#### LOGGING:

All successful transactions or errors are logged into "hndftpnet.log" located in the same directory as the hndftpnet.exe.

#### HELP:

--help  
[OPT] Used by itself, this pops up a splash help screen  
Creates hndftpnethelp.txt which contains the contents of this splash screen.

--update  
[OPT] This command causes the application to update to the latest version available from CHT's website.  
Utilizes CHTSNAPGET.EXE if / when invoked.

---

**Name:** HNDFTPWZ.APP  
**Build:** FTP Wizard (CLARION) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDFTPWZ.APP](#)  
**Templates:** [Templates In Application HNDFTPWZ.APP](#)  
**Description:**

This "CHT Utility Application" comes to you courtesy of The Clarion Handy Tools Page. It demonstrates a combination of six FTP Templates.

- \* EmbedInternetFTP (parent template)
- \* HandyFTPInitializationControls (gather logon and user information)
- \* HandyFTPLocalFilesControls (gather upload file information)
- \* HandyFTPLocalFilesULControls (upload files control panel)
- \* HandyFTPRemoteFilesControls (gather download file information)
- \* HandyFTPRemoteFilesDLControls (download files control panel)

Note that the application can be easily rebuilt for developer customization with the CHTJumpStartProceduresUtility template. Navigate to the FTP Functions tab and select item four, "FTP Wizard".

This demo is a fully functional FTP application with file upload and download capability, proxy support, directory listing and creation, file deletion and moving. While this application shares the features of many commercial FTP applications, it alone uses the CHT query control which allows you to filter your upload and download file lists and create recallable queries that really boost your productivity.

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**Name:** HNDGOOGLECALENDAREXPLORER.APP  
**Build:** Eds Easy Google Calendar Explorer [V10.17.11.0160]  
**Date:** 12/13/2017  
**Category:** Internet - HTTP Clients  
**Classes:** [Classes By Procedure In HNDGOOGLECALENDAREXPLORER.APP](#)  
**Templates:** [Templates In Application HNDGOOGLECALENDAREXPLORER.APP](#)  
**Description:**

This application is the result of request by CHT user Ed Grodsky to illustrate logging into a web page - specifically Gmail - from a CHT application.

The application will ask you for your login credentials if they have not already been established by this application. Once entered, it will save them to the registry. These can always be changed using the "Configure Google Credentials" button provided on the toolbar.

HNDGOOGLECALENDAREXPLORER.APP applies primarily a CHT template called HandyComInternetExplorerControl. The template has been configured with specific web form settings that allow it to insert information directly into the web page variables having to do with Google Calendar Login.

The application communicates with the Google Calendar login page's DOM (Document Object Model) using methods provided in CHT class, HNDInternetExplorer.

This same principle can be used to interact with almost any web page by writing to it's form variables from inside the Clarion application hosting the Internet Explorer control.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDHOTKEYSERVICE.APP  
**Build:** CHT Hot-Key Service [V10.17.11.0317]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNDHOTKEYSERVICE.APP](#)  
**Templates:** [Templates In Application HNDHOTKEYSERVICE.APP](#)  
**Description:**

This application illustrates a dialog on the EmbedWindowFunctions template called "System Hot Keys". With this dialog you are able to assign system-wide hot keys to an application. The nature of a system-wide hotkey is that it can only be applied to one running application at a time. The system optionally warns you if a hot-key that your application assigns is already in use.

This particular demo application runs as a Windows service that enables a set of system-wide hot-keys configured launch a variety of CHT support applications as follows:

\*\*\*\* Getting CHT Help (F5 Key) \*\*\*\*

F5 Key = Restore or minimize web-service window  
Alt-F5 = Open browser to CHT Home Page  
Ctrl-F5 = Open browser to CHT Video Education Page

\*\*\*\* CHT Forum Access (F6 Key) \*\*\*\*

F6 Key = CHT Hybrid Web Client  
Shift-F6 = CHT Support Forum Client  
Ctrl-F6 = CHT Support Forum Via Browser

\*\*\*\* CHT Installation And Update (F7 Key) \*\*\*\*

F7 Key = CHT Webupdater  
Shift-F7 = CHT Webupdater Download Page  
Ctrl-F7 = CHT Installation Tuner  
Alt-F7 = CHT Auto Backup Configurator

\*\*\*\* CHT Development Utilities (F8 Key) \*\*\*\*

Shift-F8 = CHT Color Configurator  
Ctrl-F8 = CHT Toolkit Synchronizer  
Alt-F8 = CHT Web Scripiter

\*\*\*\* CHT Other Utilities (F9Key) \*\*\*\*

F9 = CHT Installation Containerizer  
Shift-F9 = CHT FTP Wizard  
Ctrl-F9 = CHT Handy Zip'N Email  
Alt-F9 = CHT Handy Zip'N HTTP Post  
CtrlShift-F9 = CHT Handy Zip'N FTP

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**Name:** HNDHTGT.APP  
**Build:** CHT Client Classes Demo [V10.17.11.0219]  
**Date:** 12/13/2017  
**Category:** Internet - HTTP Clients  
**Classes:** [Classes By Procedure In HNDHTGT.APP](#)  
**Templates:** [Templates In Application HNDHTGT.APP](#)  
**Description:**

This application demonstrates primarily, the use of a Clarion Handy Tools OOP classes called HndHTTP and HNDClient.

This application illustrates how to send a variety of requests to a server. It is preconfigured to interact with demo servers HNDFILSV.APP and HNDLFSV.APP.

The HTTP\_CHTSecureFileOperations() procedure can securely upload files, download files, delete files and check file existence against a CHT Browser Server application configured to accept these operations.

At the server side (see HNDFILSV.APP) you have full control over which operations are allowed.

The HTTP\_CHTServerInsecureFileOperations() procedure illustrates sending User Custom Requests (UCRS) to HNDLFSV.APP. The two example commands provided here, demonstrate remotely running threaded example procedures in the server.

At the server side (see HNDLFSV.APP) any number of threaded procedures may be inserted, each with its own command and parameter list, by following the example embeds in Server.ProcessUserCustomRequest().

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDIFTP.APP  
**Build:** Instant FTP Demonstration [V10.17.11.0298]

**Date:** 12/13/2017  
**Category** Internet - FTP  
**Classes:** [Classes By Procedure In HNDIFTP.APP](#)  
**Templates:** [Templates In Application HNDIFTP.APP](#)  
**Description:**

This application primarily illustrates use of two templates called: InstantFTPDownload and InstantFTPUplod. Use this application to guide you in building quick, standalone FTP upload or download functions that can handle all aspects of connectivity as well as powerful FTP file transfer services.

The two key procedures used here to PUT and GET files via FTP are available for auto creation by our CHTJumpStartProceduresUtility template, under the "FTP Procedures" tab.

This template is available from the global AACHTControlPanel template using the "JumpStart Procedures" button or via the Application -> Template Utility -> CHTJumpStartProceduresUtility.

Both procedures accept variable or constant parameters providing:

- 1) File Name
- 2) Url
- 3) User Name
- 4) Password
- 5) Remote Directory
- 6) Local Directory

The GET Procedure optionally returns the Date, Time and Size of the returned file.

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**Name:** **HNDINSTALLATIONSERVER.APP**  
**Build:** Browser Server TYPE 1 (Files) [V10.17.11]  
**Date:** 12/13/2017  
**Category** HTTP SERVER TYPE 1  
**Classes:** [Classes By Procedure In HNDINSTALLATIONSERVER.APP](#)  
**Templates:** [Templates In Application HNDINSTALLATIONSERVER.APP](#)  
**Description:**

This application demonstrates how to build an authentication server much like the one that services CHT's own installation services.

First, the server provides a web browse and form that let you choose one of three CHT versions and the associated installer(s).

Second, the server provides authentication for the downloaded installers, connecting current subscribers and rejecting expired subscribers.

When a current subscriber connects via the updater, a list of current installation HZOs is provided from a standard .TPS or SQL file that you control. The installer can use this list to download those files for which CRCs are different from local containers it may have present.

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**Name:** **HNDINSTALLMYFILES.APP**  
**Build:** File Client TYPE 4 (Basic) [V10.17.11]  
**Date:** 12/13/2017  
**Category** HTTP CLIENT TYPE 4  
**Classes:** [Classes By Procedure In HNDINSTALLMYFILES.APP](#)  
**Templates:** [Templates In Application HNDINSTALLMYFILES.APP](#)  
**Description:**

This basic installation example illustrates a file installation/acquisition method that pulls together several CHT classes, namely HNDHTTP, HNDCLNT, HNDISKEX and HNDBUFFER, to provide developers with an easy-to-implement means of building across-the-web installation or updating into their products.

This application first connects to HNDFILSVSPECIAL.APP to download an installation files list approved at the server end. Next it downloads the listed files and places them in the designated directories below the installer's configured target directory. Files are only

downloaded when the CRC value provided for any file is different than the CRC of the file already installed.

The server auto-encrypts and auto-compresses files at the request of this client and files are auto-decrypted and auto-decompressed on arrival. Replaced files are copied to the backup directory before replacement is made. When the download file is an .HZO container, this client extracts it to the download directory, while honoring the sub-paths indicated by the .HZO contents.

A configuration procedure in this application is provided in order to change the installation server as well as the local target and backup directories. The installer always recalls its last installation log from the config menu.

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**Name:** HNDINSTBA.APP  
**Build:** Install From The Web Basic [V10.17.11.0207]  
**Date:** 12/13/2017  
**Category:** Application Installation Utility  
**Classes:** [Classes By Procedure In HNDINSTBA.APP](#)  
**Templates:** [Templates In Application HNDINSTBA.APP](#)  
**Description:**

This very basic installation example illustrates a basic installation JumpStart called JumpStartGetRemoteInstallationFileBasic() that pulls together several CHT classes, namely HNDHTTP, HNDZSTORE, HNDISKEX and HNDBUFFER, to provide developers an easy-to-implement means of building across-the-web self updating into their products.

This application downloads and installs three standard CHT .HZO container files built with another CHT demo application called HNDSETUP.APP. All of these installation containers contain compressed material (mostly images) and one of them, the third, is both compressed and encrypted. While running the app, the user can adjust the target installation and backup locations.

NOTE:

The jumpstart called JumpStartGetRemoteInstallationFileBasic() mentioned above is presently available from the CHT Jumpstart interface on the "Installation Functions" tab along with two others that auto enable website security and serial number authentication against a standard CHT web server.

Any questions, feel free to ask: news.cwhandy.ca

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**Name:** HNDISAMPOPFVEXPB.APP  
**Build:** PopFavoriteQueries\_EXPB [V10.17.12.0210]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDISAMPOPFVEXPB.APP](#)  
**Templates:** [Templates In Application HNDISAMPOPFVEXPB.APP](#)  
**Description:**

This application demonstrates primarily, the use of a Clarion Handy Tools Template called ExplorerBrowse. This is an extension template that extends a standard ABC browse with some 25+ features including header-click browse column sorting, built-in locators, greenbar support, and much more.

ExplorerBrowse itself can also be extended by adding a variety of extension templates. This application adds PopFavoriteQueries\_EXPB to provide a way to inject prebuilt queries into the browse to limit the records being displayed.

PopFavoriteQueries\_EXPB provides a query control, a clear button, a favorites query selection control, a query builder button, a query save button and a query delete button.

The application also illustrates a procedure built with a CHT Jumpstart that allows you to manage and modify or insert pre-built queries.

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**Name:** HNDISAMPOPFVHMB.APP

**Build:** PopFavoriteQueries\_HMB (ISAM) [V10.17.11.0229]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDISAMPOPFAVHMB.APP](#)  
**Templates:** [Templates In Application HNDISAMPOPFAVHMB.APP](#)  
**Description:**

This application demonstrates primarily, the use of a Clarion Handy Tools Template called ExplorerBrowse. This is an extension template that extends a standard ABC browse with some 25+ features including header-click browse column sorting, built-in locators, greenbar support, and much more.

ExplorerBrowse itself can also be extended by adding a variety of extension templates. This application adds PopFavoriteQueries\_EXPB to provide a way to inject prebuilt queries into the browse to limit the records being displayed.

PopFavoriteQueries\_EXPB provides a query control, a clear button, a favorites query selection control, a query builder button, a query save button and a query delete button.

The application also illustrates a procedure built with a CHT Jumpstart that allows you to manage and modify or insert pre-built queries.

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**Name:** **HNDLBXDM.APP**  
**Build:** LBX Demo (ISAM) [V10.17.12]  
**Date:** 12/13/2017  
**Category:** LBX BROWSES  
**Classes:** [Classes By Procedure In HNDLBXDM.APP](#)  
**Templates:** [Templates In Application HNDLBXDM.APP](#)  
**Description:**

This application demonstrates primarily a record-marking template that assists in marking records using ordinary Clarion list boxes.

While HandyMarkerBrowse is used as a source for selecting records, this application's primary procedure ListBoxBrowseExtenderDemo() should be the focus of your study. HandyMarkerBrowse is fully illustrated in HND3.APP.

Some Features Illustrated In This Application:

- \* ListBoxBrowseExtender Has Green Bar.
- \* ListBoxBrowseExtender Has Query Control.
- \* ListBoxBrowseExtender Has Query Builder (Extends Querying)
- \* Optionally use ORDER BY In Query Control For Multi-Column Sort.
- \* ListBoxBrowseExtender Honours Retain-Record.
- \* ListBoxBrowseExtender Generates Data Queue

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**Name:** **HNDLIVUP.APP**  
**Build:** CHT Live-Update Client Demo [V10.17.11.0217]  
**Date:** 12/13/2017  
**Category:** Internet - HTTP Clients  
**Classes:** [Classes By Procedure In HNDLIVUP.APP](#)  
**Templates:** [Templates In Application HNDLIVUP.APP](#)  
**Description:**

This application demonstrates primarily, the use of a Clarion Handy Tools class called HNDClient and a template called EmbedHTTPClientFunctions. It is based on a dictionary called HNDLIVUP.DCT.

The application acts as secure file transfer client in combination with a secure file transfer server also built with the CHT tool kit. Server examples provided are called HNDFILSV.APP and HNDSVLV.APP.

A variation of this application was used to provide "Live-Update" services for your Clarion Handy Tools tool kit before we introduced WEBUPDATER.

This demo client can easily be configured to your own purposes to provide product updates or to service a variety of file transfer requirements for which you might



otherwise be inclined use less secure transfer technologies such as FTP.

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**Name:** **HNDLRNSV.APP**  
**Build:** Browser Server TYPE 1 (Basic) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 1  
**Classes:** [Classes By Procedure In HNDLRNSV.APP](#)  
**Templates:** [Templates In Application HNDLRNSV.APP](#)  
**Description:**

This application is a basic Browser Server TYPE 1, project the purpose of which is to provide a starting point for a browser-based messages server. Because the target client for this server is a browser, at CHT we call this a "Browser Server" - it serves interactive data to a browser.

This application is entirely template-built and contains almost no hand-embedded code.

NOTE: This is a starting-point server from which to build forward. It proceeds to the point of login but no further. The "messages" back-end portion of the operation is ready to be grafted in by the developer.

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**Name:** **HNDMAILCDO.APP**  
**Build:** CDO Mail Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDMAILCDO.APP](#)  
**Templates:** [Templates In Application HNDMAILCDO.APP](#)  
**Description:**

This "CHT Batch Bot" application uses CDO mail which is a form of SMTP mail built into windows applications for use by scripting languages. Before you use it, the application must be configured with valid email parameters the same as any other email client requires configuration. This application is stand-alone and requires no extra DLLs.

The email template used to build this application is EMBEDCDOMAILFUNCTIONS. The CHT CDO Class is called HNDMSCDO located in files HNDMSCDO.INC and HNDMSCDO.CLW.

HNDMAILCDO.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

HNDMAILCDO.EXE runs from the DOS prompt or can be called from another application using Clarion RUN. It accepts several command line parameters that describe the email to be sent. These parameters are as follows:

SENDING:

--to [REQ] mymail@address.com (multiples add semi-colon between)  
--cc [OPT] mycc@address.com (multiples add semi-colon between)  
--bcc [OPT] mybcc@address.com (multiples add semi-colon between)  
--subj [REQ] This is the subject line.  
--body [OPT] This is a short email body.  
Optional when the --body parameter is used.  
--file [OPT] emailbody.txt/.html (Alternate to --body for body text)  
--attach [OPT] somezip.zip (Name of attachment requires full path)  
--mail [OPT] mailfile.txt (INI file with tags To=, Subj=, Body=, Attach=)

CONFIGURING:

--config0

```
[CFG] Set up mail configuration information #0
--config1
[CFG] Set up mail configuration information #1
--config2
[CFG] Set up mail configuration information #2
--set0
[CFG] Select and use configuration #0
--set1
[CFG] Select and use configuration #1
--set2
[CFG] Select and use configuration #2
```

#### LOGGING:

All transactions such as config changes, emails or errors are logged into "hndmailcdo.log" located in the same directory as the hndmailcdo.exe.

#### HELP:

```
--help
[CFG] Pops up a splash help screen
--update
[CFG] Self-update HNDMAILCDO.EXE to the latest version.
Utilizes CHTSNAPGET.EXE if / when unvoked.
--video
[OPT] Displays a video or document from the web that
further explains use of this application.
```

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**Name:** HNDMAILMAPI.APP  
**Build:** CHT HndMailMapi CMD Utility [V10.17.11.0378]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDMAILMAPI.APP](#)  
**Templates:** [Templates In Application HNDMAILMAPI.APP](#)  
**Description:**

This "CHT Batch Bot" application provides MAPI send capability provided by a CHT DLL called HNDNETMAPI.DLL written with C#.

The CHT template illustrated in this application is called SOURCE\_EMBED\_MAPI\_FUNCTIONS. The class underlying this template is called HNDMAIL located in files HNDMAIL.INC and HNDMAIL.CLW.

HNDMAILMAPI.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

When you have a properly configured MAPI email client like Outlook or Windows Live Mail configured, this application is able to connect with it to send email. This application is stand-alone and requires no other CHT DLLs.

HNDMAILMAPI.EXE runs from the DOS prompt or can be called from another application using Clarion RUN, from a batch file or even from a .VBS script. It is capable of sending standard email of the type(s) configured in your default email client.

It accepts several command line parameters that describe the email to be sent. These parameters are as follows:

#### SENDING:

```
--to
[REQ] mail@address.com (or multiples + semi-colon separators)
--subj
[REQ] This is the subject line.
--body
[OPT] This is a short email body.
Optional when the --file parameter is used.
--file
[OPT] emailbody.txt (Alternate to --body for lengthy body text)
Optional when the --body parameter is used.
--attach
[OPT] somezip.zip (Name of attachment requires full path)
--mail
[OPT] mailfile.txt (INI file with tags To=, Subj=, Body=, Attach=)
```

#### LOGGING:

All transactions such as config changes, emails or errors are logged into "hndmailmapi.log" located in the same directory as the hndmailmapi.exe.

#### HELP:

--help

Pops up a splash help screen

--update

Auto-update HNDMAILMAPI.EXE to the latest version

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**Name:** HNDMAILME.APP

**Build:** HandyMailMeControl Templates Demo [V10.17.11.0190]

**Date:** 12/13/2017

**Category:** Email Example

**Classes:** [Classes By Procedure In HNDMAILME.APP](#)

**Templates:** [Templates In Application HNDMAILME.APP](#)

#### Description:

This application illustrates two email control templates called:

\* HandyMailMeControl - window hot link to email address

\* HandyMailMeControl\_EWF - window hot link to email address, advanced

In about 30 seconds you can build procedures that, like the examples provided, launch your default email client and prepare it for sending email, and even auto send the mail without user intervention.

While HandyMailMeControl adds a HNDWindow class instance to your procedure unconditionally, the \_EWF template is a child of EmbedWindowFunctions (hence, \_EWF in the name) and only becomes visible when that template is already present on your application. It shares the HNDWindow class instance populated by EmbedWindowFunctions.

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**Name:** HNDMAILNET.APP

**Build:** NET Mail Command Utility [V10.17.11]

**Date:** 12/13/2017

**Category:** TOOLKIT UTILITY

**Classes:** [Classes By Procedure In HNDMAILNET.APP](#)

**Templates:** [Templates In Application HNDMAILNET.APP](#)

#### Description:

This "CHT Batch Bot" application uses SMTP mail provided by a CHT DLL called HNDNETSMTP.DLL written in C#. Before you use it, the application must be configured with valid email parameters the same as any other smtp email client requires configuration. This application is stand-alone but requires the DLL mentioned above be located on the target machine and registered via REGASM.EXE.

HNDMAILNET.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

The CHT email template used in this application is EMBEDNETSMTPCLASSES. The CHT class underlying this template is HNDNETSMTPCLASS located in files HNDNETSMTP.INC and HNDNETSMTP.CLW.

HNDMAILNET.EXE runs from the DOS prompt or can be called from another application using Clarion RUN, from a batch file or even from a .VBS script. It is capable of sending standard SMTP email as well as SSL SMTP email as found with GMAIL, HOTMAIL and other similar services.

It accepts several command line parameters that describe the email to be sent. These parameters are as follows:

\*\* SENDING:

--to

[REQ] mail@address.com

--cc

[OPT] mail@address.com  
--bcc [OPT] mail@address.com  
--subj [REQ] This is the subject line.  
--body [OPT] This is a short email body. Optional when --file is used.  
For lengthy body text use --body instead.  
--file [OPT] emailbody.txt (Alternate to --body for lengthy body text)  
Optional when --body is used.  
--attach [OPT] somezip.zip (Name of attachment requires full path)  
--mail [OPT] INI-style file with tags To=, Subj=, Body=, Attach=

**CONFIGURING:**

--config0 [CFG] Set up mail configuration information #0  
--config1 [CFG] Set up mail configuration information #1  
--config2 [CFG] Set up mail configuration information #2  
--set0 [CFG] Select and use configuration #0  
--set1 [CFG] Select and use configuration #1  
--set2 [CFG] Select and use configuration #2

**LOGGING:**

All transactions such as config changes, emails or errors are logged into "hndmailnet.log" located in the same directory as the hndmailnet.exe.

**HELP:**

--help [OPT] Pops up this splash help screen  
--video [OPT] Displays from the web a video or a document further explaining use of the application.  
--update [OPT] Auto-update HNDMAILNET.EXE to the latest version  
Utilizes CHTSNAPGET.EXE if / when invoked.

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**Name:** HNDMAILSLOTCL.APP  
**Build:** CHT Mail Slot Client [V10.17.11.0180]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Mail Slots  
**Classes:** [Classes By Procedure In HNDMAILSLOTCL.APP](#)  
**Templates:** [Templates In Application HNDMAILSLOTCL.APP](#)  
**Description:**

This application demonstrates a control template called HandyComMailSlotControl which places a Windows COM MailSlot implementation from HNDMAILSLOT.DLL into the hosting application procedure.

This application is half of a two-application set and acts as client that sends messages - up to 212 characters long - to a server application called HNDMAILSLOTSV.APP.

An MS Windows "Mailslot" provides for inter-application/inter-process messaging. Applications sharing a network domain can talk to one another and give or receive commands over a Mailslot.

The template incorporates a CHT COM MailSlot Class Wrapper called HNDMailSlotClass into your procedure. See HNDMAIOT.INC, HNDMAIOT.CLW and HNDMAIOT.TLB to study the header, code module and method interfaces respectively.

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**Name:** HNDMAILSLOTSV.APP  
**Build:** CHT MailSlot Server [V10.17.11.0182]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Mail Slots  
**Classes:** [Classes By Procedure In HNDMAILSLOTSV.APP](#)  
**Templates:** [Templates In Application HNDMAILSLOTSV.APP](#)  
**Description:**

This application demonstrates a control template called HandyComMailSlotControl which places a Windows Mail Slot implementation from HNDMAILSLOT.DLL into the hosting application procedure.

This application is half of a two-application set and acts as a server that picks up messages - up to 212 characters long - posted from the client application called HNDMAILSLOTCL.APP. An MS Windows "Mailslot" provides for inter-application/inter-process messaging. Applications sharing a network domain can talk to one another and give or receive commands over a Mailslot.

The template incorporates a CHT COM MailSlot Class Wrapper called HNDMailSlotClass into your procedure. See HNDMAILIOT.INC, HNDMAILIOT.CLW and HNDMAILIOT.TLB to study the header, code module and method interfaces respectively.

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**Name:** HNDMAILSMTP.APP  
**Build:** SMTP Mail Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDMAILSMTP.APP](#)  
**Templates:** [Templates In Application HNDMAILSMTP.APP](#)  
**Description:**

This "CHT Batch Bot" application uses CHT Native SMTP mail. It is not dependent on the host hardware having a MAPI-compliant email client. This application requires Clarion's CLARUNEXT.DLL but is otherwise stand-alone.

Further it is dependent on correct configuration of a valid SMTP email setup with UserName, Password, Email Server and Email Return Address. Our template and SMTP classes provide a configuration function with user-controllable registry location settings.

HNDMAILSMTP.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

The email template illustrated is EMBEDSMTPFUNCTIONS. The CHT class underlying this template is HNDSMTP located in files HNDSMTP.INC and HNDSMTP.CLW.

HNDMAILSMTP.EXE runs from the DOS prompt or can be called from another application using Clarion RUN. It accepts several command line parameters that describe the email to be sent. These parameters are as follows:

**SENDING:**

--to  
    [REQ] mail@address.com;mail@address2.com;  
--cc  
    [OPT] mailcc@address.com;mailcc@address2.com;  
--bcc  
    [OPT] mailbcc@address.com;mailbcc@address2.com;  
--from  
    [OPT] address of sender, must be same domain  
--subj  
    [REQ] This is the subject line.  
--body  
    [OPT] This is a short email body.  
    Optional if --file parameter is used.  
--file  
    [OPT] emailbody.txt (Alternate to --body for lengthy body text)  
    Optional if --body parameter is used.  
--attach  
    [OPT] somezip.zip (Name of attachment requires full path)  
--mail  
    [OPT] mailfile.txt (INI file with tags To=, Subj=, Body=, Attach= )

#### CONFIGURING:

--config0 [CFG] Set up mail configuration information #0  
--config1 [CFG] Set up mail configuration information #1  
--config2 [CFG] Set up mail configuration information #2  
--set0 [CFG] Select and use configuration #0  
--set1 [CFG] Select and use configuration #1  
--set2 [CFG] Select and use configuration #2

#### LOGGING:

All transactions such as config changes, emails or errors are logged into "hndmailsmtp.log" located in the same directory as the hndmailsmtp.exe.

#### HELP:

--help [OPT] Pops up this splash help screen  
--video [OPT] Shell-runs the video explaining use of this app  
--update [OPT] Self-updates HNDMAILSMTP.EXE to the latest version from the web. Utilizes CHTSNAPGET.EXE if / when invoked.

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**Name:** HNDMAKEHZO.APP  
**Build:** HZO Creation Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDMAKEHZO.APP](#)  
**Templates:** [Templates In Application HNDMAKEHZO.APP](#)  
**Description:**

This "CHT Batch Bot" application runs from the DOS prompt or can be called from another application using Clarion RUN, or from a batch file or windows .VBS script. It accepts several command line parameters that describe the input file and and output path.

HNDMAKEHZO.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

HNDMAKEHZO.EXE command-line parameters are as follows:

--help [OPT] Pops up this splash help screen  
--video [OPT] Displays a help video or help document from the web  
--update [OPT]Self-update from the web if changes available  
Utilizes CHTSNAPGET.EXE if / when invoked.

\*\* Build A Container  
--input [REQ] Path of input directory  
--output [REQ] Path and name of output .HZO file

\*\* Extract a Container  
--extract [REQ] Name of container to extract  
--target [REQ] Name of target extraction directory

\*\* Used wth Build or Extract  
--pass [OPT] Encrypting password  
--query [OPT] CHT Query to describe files

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**Name:** HNDMARKERSQLJOINTEST.APP  
**Build:** Handy Marker Browse SQL Joins Demo [V10.17.11.0159]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDMARKERSQLJOINTEST.APP](#)  
**Templates:** [Templates In Application HNDMARKERSQLJOINTEST.APP](#)  
**Description:**

This application illustrates HandyMarkerBrowse in conjunction with three query control templates: HandyMarkerBrowseLocatorControlEx, HandyMarkerBrowseQueryBuilderControl and QueryParsingFilterControl.

This app was developed as a test application to study ABC Browse Class reset behaviour by tracing with HandySQLTrace. It was used in revisions to CHT Browse Classes and templates made May 2012.

The purpose of those revisions was to eliminate double and triple SQL requests send from the ABC Browse classes whenever the browse was reset by an order change or a filter change. The ABC BrowseClass function called ResetQueue() is a monument to inefficiency and bad design in the context of an SQL application.

Since CHT's HandyMarkerBrowse is an extension of the ABC browse class, all resets and queue refills are handled by the ABC Browse Class. Our efforts with this CHT browse extension revision was to as much as possible mitigate the inefficient behaviours built into the ABC Browse Class.

This application in conjunction with HNSQLTRACE.EXE can be used to illustrate just how much CHT's latest Browse Extension templates can improve the speed and efficiency of your SQL browses.

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**Name:** HNDMARKERSQLTEST.APP  
**Build:** Handy Marker Browse Test App [V10.17.11.0154]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDMARKERSQLTEST.APP](#)  
**Templates:** [Templates In Application HNDMARKERSQLTEST.APP](#)  
**Description:**

This application illustrates HandyMarkerBrowse in conjunction with three query control templates: HandyMarkerBrowseLocatorControlEx, HandyMarkerBrowseQueryBuilderControl and QueryParsingFilterControl.

This app was developed as a test application to study ABC Browse Class reset behaviour by tracing with HandySQLTrace. It was used in revisions to CHT Browse Classes and templates made May 2012.

The purpose of those revisions was to eliminate double and triple SQL requests send from the ABC Browse classes whenever the browse was reset by an order change or a filter change. The ABC BrowseClass function called ResetQueue() is a monument to inefficiency and bad design in the context of an SQL application.

Since CHT's HandyMarkerBrowse is an extension of the ABC browse class, all resets and queue refills are handled by the ABC Browse Class. Our efforts with this CHT browse extension revision was to as much as possible mitigate the inefficient behaviours built into the ABC Browse Class.

This application in conjunction with HNSQLTRACE.EXE can be used to illustrate just how much CHT's latest Browse Extension templates can improve the speed and efficiency of your SQL browses.

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**Name:** HNDMEDIAPLAYER.APP  
**Build:** CHT Video Education Player (#1) [V10.17.11.0180]  
**Date:** 12/13/2017  
**Category:** Video Player  
**Classes:** [Classes By Procedure In HNDMEDIAPLAYER.APP](#)

**Templates:** [Templates In Application HNDMEDIAPLAYER.APP](#)

**Description:**

This "CHT Utility Application" is designed to be used as CHT's official media player (variation 1). It streams .MP4 versions of CHT Educational Videos from our CHT Video Server. At the same time the application also serves as a model for developers wishing to build their own streaming video players.

The player is built on CHT Template HandyComMediaControl which uses the Windows Media Player COM object based in WMP.DLL.

The player is capable of playing off-line any videos which have been previously viewed to completion. On-line viewing of uncached videos begins quickly, once approximately 5 percent of the video has downloaded, and already-cached videos begin immediately since they are not downloaded again.

If you plan to adapt this application to act as a video player for your own videos, a useful, accompanying application called HNDBUILDVIDEOLIST.APP can build video index files on your CHT-based video server, of the type utilized by this application and by the HNDWindowsMediaPlayer class (HNDWMP.INC, HNDWMP.CLW, HNDWMP.TLB).

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**Name:** HNDMIXEDBROWSESQLJOINTEST.APP

**Build:** Mixed Browse Extensions SQL Joins Demo [V10.17.11.0157]

**Date:** 12/13/2017

**Category:** Querying, Locating And Filtering

**Classes:** [Classes By Procedure In HNDMIXEDBROWSESQLJOINTEST.APP](#)

**Templates:** [Templates In Application HNDMIXEDBROWSESQLJOINTEST.APP](#)

**Description:**

This application illustrates a mixed browse extension, SQL Join set of browses consisting of HandyMarkerBrowses (Parent, Child1 and Child3) and ExplorerBrowse (Child2).

This app was developed as a test application to study ABC Browse Class reset behaviour by tracing with HandySQLTrace. It was used in revisions to CHT Browse Classes and templates made late May 2012.

The purpose of those revisions was to eliminate double and triple SQL requests sent from the ABC Browse classes whenever the browse was reset by an order change or a filter change.

It is the nature of templates of one type to generate code together in a given embed point (say priority 9500) in the order that the templates are populated on the window. This rule of thumb does not hold when populating two templates with different types into the same embed priority point. One template type will generate as a group, then the other, regardless of the order in which they're populated.

When creating a JOIN SET with mixed browse extensions such as in this application, CHT had to devise a way to get the templates to populate in a consistent order that matched the developer's design for browse filling order. A JOINed set of browses must always fill in the order PARENT, CHILD1, CHILD2, CHILD3.

If the templates generate into the same embed point in the wrong order (due to template types having been mixed together) the firing order of browses can become jumbled and events can collide such that browses fill in the wrong order and SQL "Chatter" results.

Our latest implementation of HandyMarkerBrowse and ExplorerBrowse extensions has overcome this native template-generation-order behaviour (where order matters) by generating into named, hidden, embed points based on each template's position in the JOIN SET heirarchy, regardless of the template type, allowing mixed template types in a given JOIN SET.

This application in conjunction with HNDSQLTRACE.EXE can be used to illustrate just how much CHT's latest Browse Extension templates can improve the speed and efficiency of your SQL browses.

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**Name:** HNDMLADSM.APP

**Build:** Advanced Send-SMTP-Mail Demo [V10.17.11.0358]

**Date:** 12/13/2017

**Category:** Email Example



**Classes:** [Classes By Procedure In HNDMLADSM.APP](#)

**Templates:** [Templates In Application HNDMLADSM.APP](#)

**Description:**

This application demonstrates building SMTP email send procedures using the CHT classes HNDSMTP.INC and HNDSMTP.CLW, attached to your application via one of the EMBEDSMTPFUNCTIONS template.

These are ADVANCED send procedures using higher level HNDSMTP features such as HTML email and attachment encryption and compression.

All procedures in this application are available as JUMP START procedures via the CHTJumpStartProceduresUtility Template. Import any of them into your application as a model from which to work forward.

NOTE: This application was revised in JUNE 2015 to take advantage of changes to the HNDSMTP class to incorporate CLARUNEXT.DLL to handle SMTP sends. This DLL, as of Build 19B.02.00 replaces the HNDSM.DLL used prior to that point.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDMLMAPI.APP

**Build:** EmbedMapiEmail Template Examples [V10.17.11.0191]

**Date:** 12/13/2017

**Category:** Email Example

**Classes:** [Classes By Procedure In HNDMLMAPI.APP](#)

**Templates:** [Templates In Application HNDMLMAPI.APP](#)

**Description:**

This application demonstrates primarily, building MAPI email send procedures using the CHT classes HNDIMAIL.INC and HNDIMAIL.CLW, attached to your application via the EMBEDOBJECT template.

These are BASIC send procedures using a minimum of HNDIMAIL features, designed specifically for easy understanding. More complex mail procedures are available in other demonstration applications.

All procedures in this application are available as JUMP START procedures via the CHTJumpStartProceduresUtility Template. Import any of them into your application as a model from which to work forward.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDMLSMTP.APP

**Build:** Basic Send-SMTP-Mail Demo [V10.17.11.0503]

**Date:** 12/13/2017

**Category:** Email Example

**Classes:** [Classes By Procedure In HNDMLSMTP.APP](#)

**Templates:** [Templates In Application HNDMLSMTP.APP](#)

**Description:**

This application demonstrates building SMTP email send procedures using the CHT classes HNDSMTP.INC and HNDSMTP.CLW, attached to your application via the EMBEDSMTPFUNCTIONS template.

These are BASIC send procedures using a minimum of HNDSMTP features, designed specifically for easy understanding. More complex mail procedures are available in other demonstration applications, for example, HNDMLADSM.APP.

All procedures in this application are available as JUMP START procedures via the CHTJumpStartProceduresUtility Template. Import any of them into your application as a model from which to work forward.

NOTE: This application was revised in JUNE 2015 to take advantage of changes to the HNDSMTP class to incorporate CLARUNEXT.DLL to handle SMTP sends. This DLL, as of Build 19B.02.00 replaces the HNDSM.DLL used prior to that point.

Any questions, feel free to ask: news.cwhandy.ca

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**Name:** HNDMNSPL.APP  
**Build:** Application Cosmetics Example [V10.17.12]  
**Date:** 12/13/2017  
**Category:** APPLICATION COSMETICS  
**Classes:** [Classes By Procedure In HNDMNSPL.APP](#)  
**Templates:** [Templates In Application HNDMNSPL.APP](#)  
**Description:**

This application demonstrates the use of several templates that help you cosmetically enhance the visual appeal of your application. While all other CHT demo applications contain aspects of what this application illustrates, HNDMNSPL.APP focuses on templates and JUMPSTARTS that provide short-cuts to better-looking applications.

ApplicationImagesEx keeps track of the images used in your application and controls consistency of your visual style in a format that can be configured at an installation-wide level.

EmbedWindowFunctions provides, advanced icon menus, application-in-tray, window boxes and much more.

The parent template of the above two is AACHTControlPanel, from which many aspects of application configuration are controlled.

Procedures in this application are available as JUMPSTART procedures via the CHTJumpStartProceduresUtility Template under the topic Main And Splash.

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**Name:** HNDMONITORDIRECTORYSRVC.APP  
**Build:** CHT Monitor Directory Service [V10.17.11.0284]  
**Date:** 12/13/2017  
**Category:** Windows API  
**Classes:** [Classes By Procedure In HNDMONITORDIRECTORYSRVC.APP](#)  
**Templates:** [Templates In Application HNDMONITORDIRECTORYSRVC.APP](#)  
**Description:**

This "CHT Utility Application" illustrates a CHT template called EmbedFileNotifyFunctions and a new class called HNDFileNotify (HNDFILENOTIFY.INC/HNDFILENOTIFY.CLW).

The class attached to your procedure by this template, once initialized, gives your procedure the ability to detect all changes occurring in a nominated directory and, optionally, its subdirectories. Whenever a new file is added to the target area, or a file is changed, your procedure is sent an event called EVENT:FileChanged to signal that this has occurred. At that point, what you do as a programmer to act on that event is wide open.

This application illustrates one use of this powerful, directory monitoring capability. When a file is added to the designated source directory, that file is copied into a target directory somewhere else on the local network.

The file or files meeting the filter setting provided on the application interface, eventually then, end up sitting somewhere else on the network, for instance, in a server directory. There is also an optional switch to remove the processed source file(s) from the directory being monitored.

Any questions, feel free to ask.

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**Name:** HNDMTSCL.APP  
**Build:** Data Client TYPE 3 (Forum) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 3  
**Classes:** [Classes By Procedure In HNDMTSCL.APP](#)  
**Templates:** [Templates In Application HNDMTSCL.APP](#)  
**Description:**

This application is a CHT Client Server application to be used with HNDMTSSV.APP - a

client server app - to provide messaging and support services using the same data tables as HNDMTSNG.APP the Browser Server that provides our web-based support forum. The app uses a dictionary called HNDMTSSV.DCT.

This client application serves to illustrate how to log in and then make a variety of data requests and data updates from a Clarion client application (using the HNDCLNT class) to a CHT Server configured for Client Server Mode. This application and accompanying server provide the theoretical backdrop for the CHT Client Server course.

NOTE: This client uses a two-piece login (Serial number, Last Name) and does not require the email address. The server (HNDCLIENTCL.APP) omits the Email Address Key on the server login configuration dialog to make this possible.

This application uses templates HandyWebClientBrowseProcedure and HandyWebClientUpdateFormProcedure to build the web browse and web update form, respectively.

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**Name:** HNDMTSNG.APP  
**Build:** Browser Server TYPE 1 (Forum) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 1  
**Classes:** [Classes By Procedure In HNDMTSNG.APP](#)  
**Templates:** [Templates In Application HNDMTSNG.APP](#)  
**Description:**

This application is a dynamic-page, fully end-user-interactive, web server. While this example server is dedicated to acting as a Forum Server the principles built in, are meant to apply to all dynamic, interactive web page servers.

We've had this server - or an earlier variation of it - in active service since 2002. It has evolved since then, as have the templates and classes on which it is based. But the fundamental principles and practices in its design have remained pure ABC. If you understand Clarion, and ABC Object Oriented Principles, you can duplicate a server of this type using The Clarion Handy Tools.

CHT Servers of this type do not rely on any generic web server software like Microsoft Internet Information Server. It ties directly into the TCP/IP libraries built into the Windows operating system. Beyond that, all Internet listening, sending activities, data packaging, compression, encryption and so forth are written in Clarion OOP source code available as part of the fully-integrated CHT tool kit.

Principle server templates in use are: EmbedBrowserServer and BrowserServerInitializationControls, accompanied by a group of page-builder templates that are able to generate XHTML or pure Javascript Data Objects. Included with the CHT Tool Kit is a multi-function editor/scripter (HNDSCRPT.APP) which is used to design the client-side/browser side pages and forms, including CSS (Cascading Style Sheets) and JS (Javascript) Subroutines.

The dictionary file used by this application is HNDMTSNG.DCT.

NOTE: This is a browser server version of CHT's support forum -- from which to learn and with which to build forward. The back end views portions of the server are already installed and working.

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**Name:** HNDMTSSV.APP  
**Build:** Client Data Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDMTSSV.APP](#)  
**Templates:** [Templates In Application HNDMTSSV.APP](#)  
**Description:**

This application demonstrates a CHT Server acting as an interactive, remote data server to a Clarion client application. Specifically this server packages MESSAGES data so that it may be browsed, edited, and reported remotely, not from a browser but from a standard Clarion desktop application.

This server application requires a matching demonstration client called HNDMTSCL.APP

and a dictionary called HNDMTSSV.DCT.

The server provides both compressed and encrypted data streams consisting of browse data, form data, report and process data based on interactive queries placed from the client side targeted at pre-determined data views (single or multi-table) provided in the server. This application is entirely template-built and contains almost no hand-embedded code.

NOTE: This server is configured for a two-piece login. It omits the Email Address Key on the BrowserServerInitialization controls template. In a two-piece login only the Login ID and Last Name (in this case) are used. This is a client server for reading and posting remote messages -- from which to both learn and with which to build forward. The back end views portions of the server are already installed and working.

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**Name:** HNDNETDATETIMEDEMO.APP  
**Build:** CHT .NET DATE TIME CLASSES [V10.17.11.0262]  
**Date:** 12/13/2017  
**Category:** Dates And Calendars  
**Classes:** [Classes By Procedure In HNDNETDATETIMEDEMO.APP](#)  
**Templates:** [Templates In Application HNDNETDATETIMEDEMO.APP](#)  
**Description:**

This application demonstrates an extension template called EmbedNetDateTimeClasses which attaches a new CHT class to your application, HNDNetDateTimeClass based in HNDNETDATETIME.INC, HNDNETDATETIME.CLW, HNDNETDATETIME.TLB and HNDNETDATETIME.DLL.

It illustrates how the EmbedNetDateTimeClasses template can give your procedure the ability to obtain detailed system and file date time information, for example time zone information, UTC date time information, and more.

HNDNETDATETIME.DLL is a viable .NET assembly that also works with Clarion.NET.

Any questions feel free to ask.

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**Name:** HNDNETDRIVEDATADEMO.APP  
**Build:** CHT NET DRIVE DATA DEMO [V10.17.11.0241]  
**Date:** 12/13/2017  
**Category:** Dot NET - Drive Data  
**Classes:** [Classes By Procedure In HNDNETDRIVEDATADEMO.APP](#)  
**Templates:** [Templates In Application HNDNETDRIVEDATADEMO.APP](#)  
**Description:**

This application demonstrates an extension template called EmbedNetDriveDataClasses which attaches a new CHT class to your application, HNDNetDriveDataClass based in HNDNETDRIVEDATA.INC, HNDNETDRIVEDATA.CLW, HNDNETDRIVEDATA.TLB and HNDNETDRIVEDATA.DLL.

It illustrates how the EmbedNetDriveDataClasses template can give your procedure the ability to obtain detailed information about the drives attached to your computer, for example the hardware serial number (manufacturer assigned and unaffected by disk reformat), as opposed to the volume serial number (operating system assigned and changed by reformat).

HNDNETDRIVEDATA.DLL is a viable .NET assembly that also works with Clarion.NET.

Any questions feel free to ask.

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**Name:** HNDNETFTPDEMO.APP  
**Build:** CHT .NET FTP Demo [V10.17.11.0173]  
**Date:** 12/13/2017  
**Category:** Internet - FTP  
**Classes:** [Classes By Procedure In HNDNETFTPDEMO.APP](#)  
**Templates:** [Templates In Application HNDNETFTPDEMO.APP](#)

## Description:

This application demonstrates an extension template called HandyNETFTPClasses which places a CHT NET DLL called HNDNETFTP.DLL into your application.

The template provides easy to use FTP functions for uploading, downloading, deleting, listing files on an FTP server.

The template incorporates a CHT NET Wrapper called HNDNETFTPClass into your procedure. See HNDNETFTP.INC, HNDNETFTP.CLW and HNDNETFTP.TLB to study the header, code module and method interfaces respectively.

HNDNETFTP.DLL is a viable .NET assembly that also works with Clarion.NET. In Win32 applications (Clarion 8) this DLL is a self-registering COM DLL.

Any questions feel free to ask on the CHT support forum.

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**Name:** HNDNETWIFITEST.APP

**Build:** CHT WIFI TEST [V10.17.11.0199]

**Date:** 12/13/2017

**Category:** Dot NET - WIFI

**Classes:** [Classes By Procedure In HNDNETWIFITEST.APP](#)

**Templates:** [Templates In Application HNDNETWIFITEST.APP](#)

## Description:

HNDWIFITEST.APP applies primarily a CHT template called EmbedNetWLANAPIClasses. This template attaches a CHT .NET class called EmbedNetWLANAPIClasses based in HNDNETWLANAPI.INC and HNDNETWLANAPI.CLW.

The application, via the provided CHT templates and classes, provides information such as name and speed about your wireless connection(s).

CHT templates and classes with the word "NET" incorporated are based in .NET assembly DLLs which work with Clarion .NET, Clarion 6 and Clarion 7.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDNETZIPDEMO.APP

**Build:** CHT Handy .NET Zipper [V10.17.11.0334]

**Date:** 12/13/2017

**Category:** File And Memory Compression

**Classes:** [Classes By Procedure In HNDNETZIPDEMO.APP](#)

**Templates:** [Templates In Application HNDNETZIPDEMO.APP](#)

## Description:

This application demonstrates a control template called HandyNETZipperControl which places a CHT NET Zipper Control from HNDNETZIPPER.DLL on your application window.

The template provides two interface controls, a string control for messages and a progress control to indicate progress through bulk zip and unzip operations. Since this is a "Control" template it operates from a window. If a silent, or invisible zip operation is required, use the ZipSilent() function provided and illustrated. Operations provided are: bulk zip with mask, bulk unzip with mask - UnZipSilent().

The template incorporates a CHT NET Zipper Wrapper called HNDNETZipClass into your procedure. See HNDNETZIPPER.INC, HNDNETZIPPER.CLW and HNDNETZIPPER.TLB to study the header, code module and method interfaces respectively.

HNDNETZIPPER.DLL is a viable .NET assembly that also works with Clarion.NET. And in Win32 applications this DLL is a self-registering COM DLL.

This application now includes procedure(s) using the template CHTBestPracticeEmbedClass as an example for developers.

Any questions feel free to ask on the CHT support forum.

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**Name:** HNDNEWSLINKSLISTSVR.APP

**Build:** XML2HTML Server TYPE 2 (UCR\$) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 2  
**Classes:** [Classes By Procedure In HNDNEWSLINKLISTSVR.APP](#)  
**Templates:** [Templates In Application HNDNEWSLINKLISTSVR.APP](#)  
**Description:**

This application demonstrates TCP/IP connectivity with a browser or with a Clarion client application using HNDHttp or HNDClient classes.

In this particular example, application functionality has been limited to acting as a dynamic data, page server and providing several example UCR\$ (User Custom Request) procedure calls that may be called from any HTML web link.

This server was branched from HNDSLFSV.APP in Sept 2017 to demonstrate building dynamic-data web pages based on CHT XML2HTMLGEN techniques. Take note that it has had it's default base page changed from INDEX.HTML to UCRBROWSES.HTML in order to simplify testing and navigating to the UCR\$ functions test page.

It utilizes a function called AutoGenHTMLFromXML\_VER02 exported from HNDXML2HTMLGEN.APP to convert standard CHT XML template files into HTML. This is the same functionality that triggers an HTML file to be generated from CHTSNAPEDIT.EXE when the F5 key is pushed.

Calling any one of this server's specialized UCR\$ functions, triggers the return of a dynamic data page based on one of CHT's .XML page templates. Other similar UCR\$ procedures will be available for further study, as we expand this demonstration data server in upcoming releases.

Data rows inserted into 000newslinklist.xml before processing to "newslinklist.html" are read from an HNDSLFSVCUS.SQLITE table called "NEWSLINKLIST".

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**Name:** HNDOUTLKDEMO.APP  
**Build:** HNDOfficeOutLook Class Demo [V10.17.11.0162]  
**Date:** 12/13/2017  
**Category:** MS Office Outlook  
**Classes:** [Classes By Procedure In HNDOUTLKDEMO.APP](#)  
**Templates:** [Templates In Application HNDOUTLKDEMO.APP](#)  
**Description:**

This application illustrates a class called HNDOfficeOutlook which provides a programmatic interface to Microsoft Outlook for creating and opening email, appointments, tasks and more.

The HNDOfficeOutlook class is introduced to the procedure via a template called EmbedHndOutlookClassFunctions. Then a second template called HandyOutlookInterfaceControls has been added to the main window to illustrate a variety of functions available.

This application is a work in progress intended for expansion as CHT Outlook templates are added and improved.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDOUTLOOK.APP  
**Build:** Microsoft Outlook View Control Demo [V10.17.11.0157]  
**Date:** 12/13/2017  
**Category:** MS Office Outlook  
**Classes:** [Classes By Procedure In HNDOUTLOOK.APP](#)  
**Templates:** [Templates In Application HNDOUTLOOK.APP](#)  
**Description:**

This application demonstrates a CHT COM Class Wrapper called HNDOutlookClass. It provides a full-feature interface to the OUTLCTL.DLL IViewCtl control. See HNDOUTTL.INC, HNDOUTTL.CLW and HNDOUTTL.TLB to study the header, code module and method interfaces respectively.

A CHT control template called HandyCOMOutLookControl helps you drop this control onto any application window and instantiate a Clarion-style interface to the COM IViewCtl control.

With the HndComOutlookControl template and it's underlying CHT OOP classes you can have a fully interactive MS Outlook application running in your Clarion Window, including such Outlook features as Inbox, OutBox, Sent Items, Calendar, Contacts, Journal, Notes, Tasks and Drafts.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDOUTLOOKINTERFACEDEMO.APP  
**Build:** HandyOutlookInterfaceControls Demo [V10.17.11.0176]  
**Date:** 12/13/2017  
**Category:** MS Office Outlook  
**Classes:** [Classes By Procedure In HNDOUTLOOKINTERFACEDEMO.APP](#)  
**Templates:** [Templates In Application HNDOUTLOOKINTERFACEDEMO.APP](#)  
**Description:**

This application illustrates a class called HNDOfficeOutlook which provides a programmatic interface to Microsoft Outlook for creating and opening email, appointments, tasks and more.

The HNDOfficeOutlook class is introduced to the procedure via a template called EmbedHndOutlookClassFunctions. Then a second template called HandyOutlookInterfaceControls has been added to the main window to illustrate a variety of functions available.

This application is a work in progress intended for expansion as CHT Outlook templates are added and improved.

Any questions, feel free to ask.

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**Name:** HNDPEOPLE\_LBX.APP  
**Build:** LBX Demo (ISAM) [V10.17.12]  
**Date:** 12/13/2017  
**Category:** LBX BROWSES  
**Classes:** [Classes By Procedure In HNDPEOPLE\\_LBX.APP](#)  
**Templates:** [Templates In Application HNDPEOPLE\\_LBX.APP](#)  
**Description:**

This application demonstrates some basic ListBoxBrowseExtender (LBX) browse building for local data access.

LBX "FillFrom" tabs used:  
FillFromFile() -- Local Data Tables  
FillFromView() -- Local Data Tables  
FillFromCHTServer() -- Remote Data Tables

Upcoming versions of this application will add remote update procedures and browses filled by all 6 different "FillFrom" settings.

Note that only the "FILLBYEMBEDDING" procedure contains any hand embeds. All other procedures are 100% template-generated code.

Hot Key Alerts:

- \*\* MouseLeft - Mark a single record, unmarks any others.
- \*\* ShiftMouseLeft - Mark range between selected and click.
- \*\* CtrlShiftMouseLeft - Mark from selected to click position.
- \*\* CtrlMouseLeft - Toggle record marked/unmarked.
- \*\* CtrlMouseLeft - On header, pops up column hide menu.
- \*\* CtrlSpace - Same effect as CtrlMouseLeft
- \*\* ShiftUp - Mark next record up from selected.
- \*\* ShiftDown - Mark next record down from selected.
- \*\* UpKey - Switch to single record mode and move up.
- \*\* DownKey - Switch to single record mode and move down.
- \*\* CtrlUp - Move cursor up with no marking or unmarking.
- \*\* CtrlDown - Move cursor down with no marking.

- \*\* ShiftPgDn - Mark all from selected to top of current page.
- \*\* ShiftPgUp - Mark all from selected to end of current page.
- \*\* ShiftHome - Mark all from selected to first record.
- \*\* ShiftEnd - Mark all from selected to last record.
- \*\* HomeKey - Unmark all and select first record.
- \*\* CtrlHome - Unmark all and select first record.
- \*\* EndKey - Unmark all and select last record.
- \*\* CtrlEnd - Unmark all and select first record.
- \*\* PgUpKey - Unmark all and select last record on page.
- \*\* PgDnKey - Unmark all and select first record on page.
- \*\* CtrlA - Select all.

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**Name:** HNDPEOPLEHMB.APP  
**Build:** Basic ©CHT HandyMarkerBrowse [V10.17.11.0189]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDPEOPLEHMB.APP](#)  
**Templates:** [Templates In Application HNDPEOPLEHMB.APP](#)  
**Description:**

This application demonstrates a very basic HandyMarkerBrowse. This one-window application lists and explains the use of 23 hot keys (alerted keys) available for record marking with HandyMarkerbrowse.

These are as follows:

Hot Key Alerts:

- \*\* MouseLeft - Mark a single record, unmarks any others.
- \*\* ShiftMouseLeft - Mark range between selected and click.
- \*\* CtrlShiftMouseLeft - Mark from selected to click position.
- \*\* CtrlMouseLeft - Toggle record marked/unmarked.
- \*\* CtrlMouseLeft - On header, pops up column hide menu.
- \*\* CtrlSpace - Same effect as CtrlMouseLeft
- \*\* ShiftUp - Mark next record up from selected.
- \*\* ShiftDown - Mark next record down from selected.
- \*\* UpKey - Switch to single record mode and move up.
- \*\* DownKey - Switch to single record mode and move down.
- \*\* CtrlUp - Move cursor up with no marking or unmarking.
- \*\* CtrlDown - Move cursor down with no marking.
- \*\* ShiftPgDn - Mark all from selected to top of current page.
- \*\* ShiftPgUp - Mark all from selected to end of current page.
- \*\* ShiftHome - Mark all from selected to first record.
- \*\* ShiftEnd - Mark all from selected to last record.
- \*\* HomeKey - Unmark all and select first record.
- \*\* CtrlHome - Unmark all and select first record.
- \*\* EndKey - Unmark all and select last record.
- \*\* CtrlEnd - Unmark all and select first record.
- \*\* PgUpKey - Unmark all and select last record on page.
- \*\* PgDnKey - Unmark all and select first record on page.
- \*\* CtrlA - Select all.

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**Name:** HNDPOPFAVORITEQUERIESEXAMPLE.APP  
**Build:** PopFavoriteQueries Example [V10.17.11.0171]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDPOPFAVORITEQUERIESEXAMPLE.APP](#)  
**Templates:** [Templates In Application HNDPOPFAVORITEQUERIESEXAMPLE.APP](#)  
**Description:**

This application demonstrates two CHT browse extension templates, ExplorerBrowse and HandyMarkerBrowse used in conjunction with recently introduced query templates that improve on the query management and recall aspects of CHT Query Language queries on your browses.



PopFavoriteQueries\_EXPB is paired with Explorerbrowse (hence the \_EXPB extension) and PopFavoriteQueries\_HMB is paired with HandyMarkerBrowse (hence the \_HMB extension).

These query templates, while configured identically and operating identically, place template-specific embeds intended for the target CHT browse extension that they are paired with. This makes the overall template code less complex and easier to maintain and evolve than a multi-target template like QueryParsingFilterControl.

All PopFavoriteQueries templates are CHT's response to a request at the 2012 CHT Developers' conference for improved query management and re-use in QueryParsingFilterControl.

There is a PopFavoriteQueries\_QPFC template that is paired with QueryParsingFilterControl to add features to it, but in most cases it is easier and more efficient to remove QPFC from your browse and replace it with one of these, depending on which CHT browse extension you are using.

Any questions, feel free to visit the CHT Support forum.

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**Name:** HNDPOPUPMENUDEMO.APP  
**Build:** Handy Popup Menu Demo [V10.17.11.0180]  
**Date:** 12/13/2017  
**Category:** Pop-Up Menus  
**Classes:** [Classes By Procedure In HNDPOPUPMENUDEMO.APP](#)  
**Templates:** [Templates In Application HNDPOPUPMENUDEMO.APP](#)  
**Description:**

This application illustrates a popup menu assistance control template called HandyPopupMenuControl.

Developers can drop one or more instances of this template on any Clarion Window procedure. It's easy to build colorful popup menus in seconds. While all of the work can be done on the template interface, optional embed points are provided for developers advanced enough to embed popup menu execution code.

This application illustrates 5 instances of the template starting a variety of CHT demo applications.

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**Name:** HNDPREVIEWER.APP  
**Build:** XML2HTML Previewer [V10.17.11]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDPREVIEWER.APP](#)  
**Templates:** [Templates In Application HNDPREVIEWER.APP](#)  
**Description:**

This "CHT Snap-In" is designed to act as a specialized previewer for use with our CHT Document Builder suite of applications, such as "CHT Document Builder", "CHT Snap-Edit" and "CHT Bulk Net Mail Promo" to assist with HTML interface development.

Menus are provided to instantly set the previewer's window size to one of a variety of viewport sizes for common device sizes from small phones like the Apple iPhone to larger phones, tablets and, of course, Windows desktop.

Interacting with "CHT Document Builder" applications, like CHTSNAPEDIT.EXE and HNDDOCUMENTBUILDER.EXE, this application picks up an HTML directory location or URL from the command line passed to it from the calling application, and displays the HTML content just generated. This provides instant feedback relative to the the document changes just made.

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**Name:** HNDPRINTHTML.APP  
**Build:** XML2HTML Preview-Print [V10.17.11]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDPRINTHTML.APP](#)

**Templates:** [Templates In Application HNDPRINTHTML.APP](#)

**Description:**

This "CHT Utility Application" can display .HTM and .HTML files and typical web content such as produced by the CHT Forum Web Application whether located locally or at a remote URL (website).

Buttons are supplied:

- 1) to select and load another local HTML file
- 2) to print the currently loaded file to the print device (PRN, PDF) selected by the user from a printer select dialog.

A URL entry control is supplied with which a remote web-site HTML file may be loaded, displayed and printed.

This app picks up an HTML file name (with path) from the command line if you wish to utilize the app as a command-line utility using Clarion RUN() or from a batch file.

If you wish to import the display/print procedure PreviewPrintHTMLMain() into your application from our app, that's easy enough to do as well.

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**Name:** HNDPROGRESSBAR.APP

**Build:** COM Progress Bar Template Demo [V10.17.11.0176]

**Date:** 12/13/2017

**Category** Extended Controls - Sliders And Progress

**Classes:** [Classes By Procedure In HNDPROGRESSBAR.APP](#)

**Templates:** [Templates In Application HNDPROGRESSBAR.APP](#)

**Description:**

This application demonstrates a CHT COM Class Wrapper called HNDComProgressBar applied to an application window via the CHT template HandyComProgressBarControl. This control template places a MicroSoft COM Progress Bar Control from MSCOMCTL.OCX on your application window. It provides a full-feature, user-configurable vertical/horizontal/flat/3D Monochrome progress indicator.

With a progress bar, users can follow the progress of a lengthy operation. A progress bar may show either an approximate percentage of completion (determinate) or indicate that an operation is ongoing (indeterminate). Microsoft usability studies have shown that users are aware of response times of over one second. Consequently, you should consider operations that take two seconds or longer to complete to be lengthy and in need of progress feedback.

See HNDPRGBR.INC, HNDPRGBR..CLW and HNDPRGBR..TLB to study the header, code module and method interfaces respectively.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDQMCI.APP

**Build:** MCI Quick Player [V10.17.11.0152]

**Date:** 12/13/2017

**Category** Sound And Video

**Classes:** [Classes By Procedure In HNDQMCI.APP](#)

**Templates:** [Templates In Application HNDQMCI.APP](#)

**Description:**

This application illustrates the use of a CHT template called "EmbedAVIFunctions". This template connects a CHT class called HNDAvi to your application and enables it to display and run a wide variety of sound and video files such as AVI, MPG, WAV, MID, MP3 and more.

Other significant templates used in this application:

- \* HandyFileSelector - select files with advanced querying
- \* ListBoxBrowseExtender - list box header click column reorder, record marking and more

Other significant classes used in this application:

- \* HNDisk - advanced, low level disk functions
- \* HNDFileLoadBrowse - list box record marking, querying, sorting
- \* HNDWindow - advanced, low level window functions
- \* HNDAnimate - MS Windows animation control

CHT subscribers should study the header file for our HNDAMI class to get a deeper understanding of the properties and methods available.

Any questions, feel free to ask.

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**Name:** HNDREGISTERNETDLLS.APP  
**Build:** Register NET DLLs Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDREGISTERNETDLLS.APP](#)  
**Templates:** [Templates In Application HNDREGISTERNETDLLS.APP](#)  
**Description:**

This application runs from Webupdater whenever it senses a change in HND\_WEBUPDATER\_Cx\_01.HZO, the container that handles CHT binaries and DLLs.

This application calls REGASM.EXE to register several NET dlls for COM interoperability with Clarion Win32 applications. These are at time of writing:

HNDNETSMTP.DLL, HNDNETZIPPER.DLL, HNDNETDATETIME.DLL  
HNDNETFTP.DLL, HNDNETWLANAPI.DLL, HNDNETDRIVEDATA.DLL, HNDNETMAPI.DLL

HNDREGISTERNETDLLS.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

To register these DLL's manually using this application call the app from the DOS prompt as follows: HNDREGISTERNETDLLS

Your hardware O/S must have at least Windows FrameWork 2 installed for these NET DLLs to become correctly registered.

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**Name:** HNDREGISTEROCX.APP  
**Build:** Register OCXs Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDREGISTEROCX.APP](#)  
**Templates:** [Templates In Application HNDREGISTEROCX.APP](#)  
**Description:**

This application runs from Webupdater whenever it senses a change in HND\_WEBUPDATER\_Cx\_01.HZO, the container that handles CHT binaries, DLLs and OCXs.

This application calls REGSVR32.EXE to register several .OCX binary files for COM interoperability with Clarion applications. These are at time of writing:

HNDGTLCLKLOCK.OCX, HNDZIPR.OCX, MSCAL.OCX  
MSCOMCT2.OCX, MSCOMCTL.OCX, MSDATGRD.OCX  
MSMAPI32.OCX, MSWINSCK.OCX

HNDREGISTEROCX.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

To register these OCX's manually using this application call the app from the DOS prompt as follows: HNDREGISTEROCX.EXE.

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**Name:** HNDREGISTERTPL.APP  
**Build:** Register Templates Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDREGISTERTPL.APP](#)  
**Templates:** [Templates In Application HNDREGISTERTPL.APP](#)  
**Description:**

This application runs from Webupdater whenever the user selects to have it re-register

the HNDTOOLS.TPL template chain.

This application calls CLARIONCL.EXE to register CHT's template chain based in HNDTOOLS.TPL.

HNDREGISTERTPL.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

To register these our template manually using this application call the app from the DOS prompt as follows: HNDREGISTERTPL.EXE.

This splash screen is only added to the application for documentation purposes. It never displays as the application runs hidden from our template.

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**Name:** HNDRUNBAT.APP  
**Build:** Batch File Runner Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDRUNBAT.APP](#)  
**Templates:** [Templates In Application HNDRUNBAT.APP](#)  
**Description:**

This "CHT Batch Bot" application may be used from a desktop shortcut link or from the DOS prompt to run a batch file, the output of which is "Captured" such that a BATCHFILENAME.LOG file is produced after the batch file concludes.

This application is part of a batch-file-oriented suite including: HNCBATRUN.EXE, HNDSTOPBATCH.EXE, HNCBATCHRUNNER.EXE and HNCMPCX.EXE. They may be used together or individually, though their abilities interconnect.

HNDRUNBAT.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

HNDRUNBAT.EXE accepts several command line parameters that describe the email to be sent. These parameters are as follows:

SENDING:

--bat  
[REQ] Name of batch file to run, without path  
--path  
[REQ] Path of batch file to run  
--log  
[OPT] Requires no parameter, opens log on completion

HELP:

--help  
[OPT] Pops up a splash help screen  
--video  
[OPT] Displays a help video or help document from the web.  
--update  
[OPT] Self-update HNDRUNBAT.EXE to the latest version from the web. Utilizes CHTSNAPGET.EXE if / when utilized.

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**Name:** HNSCHDM.APP  
**Build:** CHT Search And Replace Demo [V10.17.11.0230]  
**Date:** 12/13/2017  
**Category:** File Search And Replace  
**Classes:** [Classes By Procedure In HNSCHDM.APP](#)  
**Templates:** [Templates In Application HNSCHDM.APP](#)  
**Description:**

This application uses the generic template EmbedDiskFunctions to attach a class called HNDDISK to your application procedures. The application illustrates the use of two HNDDISK functions:

- OBJ.BulkSearchReplaceText()
- OBJ.BulkFileRename()

BulkSearchReplaceText() -

Searches through text and program code files of all types in the target directory to replace words, commands, phrases.

BulkFileRename() -

Adds a prefix and removes spaces and extended characters from filenames in the target directory.

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**Name:** HNSCHOOL.APP  
**Build:** CHT Version Of ABC School App [V10.17.12.1892]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNSCHOOL.APP](#)  
**Templates:** [Templates In Application HNSCHOOL.APP](#)  
**Description:**

This is a CHT demo actively being re-built with CHT templates on ABC demo application SCHOOL.APP, hence the name HNSCHOOL.APP.

CHT developers are welcome to contribute to its eventual full incorporation of CHT templates, and to post their version of the application to our forum via the "Send Zip Files" submission button.

Its purpose is to study the use of the SQLite driver with CHT browses, and query templates set to UseSQL=True. We chose to "CHT-ify" this application specifically because it uses several SQLite data tables located in a repository file called SCHOOL.SQLITE.

A second purpose is, of course, to provide some visual and functional contrast between a raw, wizard-produced, really UGLY and semi-functional, ABC application and ABC applications extended, enhanced and functionalized by a variety of CHT templates.

To analyse the allocation of templates in this application, open the application in the Clarion IDE and navigate to Global Extensions, select AACHTControlPanel and click on the menu item "Templates By Proc". This sequence of actions triggers an HTML document to display which enumerates and names all templates used in the application by procedure.

We chose to apply, as always, our "minimalist" screen design which avoids unnecessary use of tab controls, and shuns MDI child windows. Control buttons are for the most part kept to the toolbar and when placed on a window are always above the edit fields or list box.

NOTE: It appears that the SQLite driver DLL does not provide tracing either by file or by callback, so that CHT SQLTrace will not provide SQL tracing information from this app. We have a request into SV to enquire on this issue.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNSCRPT.APP  
**Build:** CHT Web Scripiter [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 1  
**Classes:** [Classes By Procedure In HNSCRPT.APP](#)  
**Templates:** [Templates In Application HNSCRPT.APP](#)  
**Description:**

This "CHT Utility Application" is a generalized script-writing utility for all Browser Server applications built with this Clarion Handy Tools Toolkit.

Use it to create HTML/Javascript page and form scripts, Javascript Subroutines, HTML/Text email scripts and Cascading Style Sheets.

Once signed onto your TYPE 1 CHT Server Project Directory this scripiter will interact with your locally running server to give you real-time page previewing using live data from your server.

The "page-follow" component of this application interacts with your live, local test "browser server" to show you the "JDO" data packages sent from the server to your web page.

These JDO packages appear in a tab on the scripter interface to eliminate guess work as to what the server back end views are sending (by way of data, javascript and html) to your web pages on a page-by-page basis.

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**Name:** **HNDSEARCH.APP**  
**Build:** Text Search Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDSEARCH.APP](#)  
**Templates:** [Templates In Application HNDSEARCH.APP](#)  
**Description:**

This "CHT Batch Bot" application is a command-line utility that can be called from another application using, for example, Clarion RUN or one of CHT's many ShellRun() functions. It can also be leveraged from a DOS batch file, or a windows .VBS script.

HNDSEARCH.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

The application accepts several command line parameters that describe search values, replace values and more. These parameters are as follows:

--help  
    [OPT] Pops up application splash screen.  
    When used, all other parameters are ignored.

--video  
    [OPT] Displays help video or help document from the web.

--mask  
    [REQ] Required parameter eg: c:\temp\\*.app  
    Describes single or multiple files to be searched.  
    Path required, unless file(s) in same directory as this exe.

--search  
    [REQ] Required parameter eg: stop(  
    This describes what you're searching for.

--replace  
    [OPT] Optional parameter if only a search  
    This replaces the value under --search

--update  
    [OPT] Update HNDSEARCH.EXE from the web.  
    When used, all other parameters are ignored.  
    Utilizes CHTSNAPGET.EXE if / when invoked.

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**Name:** **HNDSEVERGENPACK.APP**  
**Build:** Server Generate Pack [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER GEN PACK  
**Classes:** [Classes By Procedure In HNDSEVERGENPACK.APP](#)  
**Templates:** [Templates In Application HNDSEVERGENPACK.APP](#)  
**Description:**

HNDSEVERGENPACK.APP is a convenient, multi-app solution for multi-app recompile when required.

This app has only a splash screen for self-documentation purposes and serves as a repository with which to group and multi-compile a set of related CHT apps, without using CHT Project Builder.

It contains the following 22 CHT Server Applications:

hndclientsv.app  
hndclientsvlean.app  
hndclientsvlean1view.app  
hndclientsvlean4view.app  
hndfilsv.app  
hndfilsvspecial.app  
hndlmsv.app  
hndmtssv.app

hndmtnsg.app  
hndnewslinklistsvr.app  
hndslfsv.app  
hndslfsvxmldatasvr.app  
hndslfsvxmlfilesvr.app  
hndslfsvxsa.app  
hndslfsvxsa3part.app  
hndsvlv.app  
hndeventserver.app  
hndfileserverlean.app  
hndinstallationserver.app  
hndteamdocserver.app  
hndslfsvxsa2part\_100\_82.app  
hndslfsvxsa2part\_100\_88.app

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**Name:** HNSERVICEUP.APP  
**Build:** CHT Service-Up Local [V10.17.11.0153]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNSERVICEUP.APP](#)  
**Templates:** [Templates In Application HNSERVICEUP.APP](#)  
**Description:**

This application illustrates how to control and communicate with a windows service located on the same machine. It allows you to bring up the service's window, to dismiss and minimize it, to start and stop the service and to pass configuration information to the service without physically interacting with the service's own window.

This specific example application enters with another CHT demo application called hndwindowsservicedemo.app, but an application of this sort could be made to control multiple services running on the same hardware.

Key templates installed are EmbedWindowFunctions to handle inter-application communication by posting events to the target service's window, EmbedShellFunctions to handle starting and stopping the target service and HandyServiceRemoteControlButtons\_ESHF to write all the remote control code.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNSERVICEUPREMOTE.APP  
**Build:** CHT Service-Up Remote [V10.17.11.0149]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNSERVICEUPREMOTE.APP](#)  
**Templates:** [Templates In Application HNSERVICEUPREMOTE.APP](#)  
**Description:**

This application illustrates how to remotely control and communicate with a windows service located on a different network machine. It allows you to bring up the service's window, to dismiss and minimize it, to stop the service and to pass configuration information to the service without physically interacting with the service's own window.

This specific example application enters with another CHT demo application called HNDWINDOWSSERVICEDEMO.APP, but an application of this sort could be made to control multiple services running on the other network-connected hardware.

Key templates installed are HandyCOMMailSlotControl to handle starting and stopping the target service and HandyServiceRemoteControlButtons\_HCMSC to write all the remote control code.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDSETUP.APP

**Build:** Installation Container Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDSETUP.APP](#)  
**Templates:** [Templates In Application HNDSETUP.APP](#)  
**Description:**

This "CHT Utility Application" compresses all kinds of files into a structured container (.HZO) built around a Clarion .TPS file. Optional encryption is available.

CHT's WEBUPDATER installer/updater also assigns this application as the default Windows handler for .HZO files so that you can click on any .HZO file to open it and even unpack it to a target directory if the optional password is known.

A query allows you to describe the files to be containerized. Or files to be containerized may be dropped from MS Windows Explorer.

This application can be used to build standard .HZO installation and update files for transport and decontainerization by applications like CHT WEBUPDATER and HNDSETUPMKR.APP to provide continuous, on-line updating of your software and data products.

A new utility application called HNDSETUPMKR.APP (intended to be cloned and customized) uses a new install-maker template to generate a custom web-installer using the .HZO containers created by this HNDSETUP.APP application.

This application now incorporates three CHT-XSA security settings and a "Post File To Server" dialog, in order to make it quick and easy to upload your .HZO container to a waiting CHT installation server enabled with a CHT-XSA security dialog.

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**Name:** HNDSETUPMKR.APP  
**Build:** XSA-2 Installer TYPE 4 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 4  
**Classes:** [Classes By Procedure In HNDSETUPMKR.APP](#)  
**Templates:** [Templates In Application HNDSETUPMKR.APP](#)  
**Description:**

This "CHT Utility Application" builds an across-the-web installer for your e-commerce business in co-operation with HNDSETUP.APP (.HZO Maker) and a type 4, CHT-XSA style server, HNDLFSV.APP to securely deliver installation containers. This particular installer's security model XSA-2, incorporates an example UserName:Password hard-coded into this app.

The HNDLFSVXSA.APP server is configured as an XSA-2 configurable server.

First, use HNDSETUP.APP to build an .HZO container with the files to be installed. Set up a server based on HNDLFSV.APP to deliver your e-commerce web pages as well as your installation containers. An example container comes with this application for preliminary, local testing. That container is called HNDXSAINSTALLEXAMPLE.HZO.

Once you've tested this app as-is for installation from a local copy of HNDLFSVXSA.APP, then use a renamed copy of this application and complete the template prompts in your version of this app to build your install following its example.

Once the template dialogs have been satisfactorily completed, compile the application (your renamed copy of this application) to build the installer/updater for the HZO container configured in the template.

Finally, use, HNDSETUP.APP to upload your installation containers to your website using the HTTP upload dialog built into that application.

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**Name:** HNDSETUPMKR\_XSA3\_HC.APP  
**Build:** XSA-3 Installer TYPE 4 (HC) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 4  
**Classes:** [Classes By Procedure In HNDSETUPMKR\\_XSA3\\_HC.APP](#)  
**Templates:** [Templates In Application HNDSETUPMKR\\_XSA3\\_HC.APP](#)



## Description:

This "CHT Utility Application" builds an across-the-web installer for your e-commerce business in co-operation with HNDSETUP.APP (.HZO Maker) and a type 4, CHT-XSA style server, HNDSLFSVXSA3PART.APP to securely deliver installation containers.

First, use HNDSETUP.APP to build an .HZO container with the files to be installed. Set up a server based on HNDSLFSVXSA3PART.APP to deliver your e-commerce web pages as well as your installation containers.

Then use a renamed copy of this application and complete the template prompts in your version of this app to build your install following its example.

Once the template dialogs have been satisfactorily completed, compile the application (your renamed copy of this application) to build the installer/updater for the HZO container configured in the template.

Since the HNDSLFSVXSA3PART.APP server uses a "Customer" file where installation privileges are established and controlled, a customer maintenance application called HNDSLFSVCUS.APP has been added to the toolkit. This server uses a "Customer" table located in an SQLITE container file named HNDSLFSV.SQLITE and the maintenance app is fix-coded to access and maintain that same custome table.

In this example installer, the "Authentication Model" switch has been set to position 4 which indicates a hard-coded authentication string consisting of 3 discrete pieces separated by commas. Hence the name of this example: HNDSETUPMKR\_XSA3\_HC.APP (with HC for hard-coded).

Finally, use, HNDSETUP.APP to upload your installation containers to your website using the HTTP upload dialog built into that application.

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**Name:** HNDSETUPMKR\_XSA3\_LOOKUP.APP

**Build:** XSA-3 Installer TYPE 4 (Lookup) [V10.17.11]

**Date:** 12/13/2017

**Category:** HTTP CLIENT TYPE 4

**Classes:** [Classes By Procedure In HNDSETUPMKR\\_XSA3\\_LOOKUP.APP](#)

**Templates:** [Templates In Application HNDSETUPMKR\\_XSA3\\_LOOKUP.APP](#)

## Description:

This "CHT Utility Application" builds an across-the-web installer for your e-commerce business in co-operation with HNDSETUP.APP (.HZO Maker) and a type 4, CHT-XSA style server, HNDSLFSVXSA3PART.APP to securely deliver installation containers.

First, use HNDSETUP.APP to build an .HZO container with the files to be installed. Set up a server based on HNDSLFSVXSA3PART.APP to deliver your e-commerce web pages as well as your installation containers.

Then use a renamed copy of this application and complete the template prompts in your version of this app to build your install following its example.

Once the template dialogs have been satisfactorily completed, compile the application (your renamed copy of this application) to build the installer/updater for the HZO container configured in the template.

Since the HNDSLFSVXSA3PART.APP server uses a "Customer" file where installation privileges are established and controlled, a customer maintenance application called HNDSLFSVCUS.APP has been added to the toolkit. This server uses a "Customer" table located in an SQLITE container file named HNDSLFSV.SQLITE and the maintenance app is fix-coded to access and maintain that same custome table.

In this example installer, the "Authentication Model" switch has been set to position 5 which indicates a dynamic, user-configurable authentication string consisting of 3 discrete pieces separated by commas.

Hence the name of this example: HNDSETUPMKR\_XSA3\_LOOKUP.APP (with LOOKUP to indicate looked up in the registry configuration).

When this installer first starts, unconfigured, it pops up a dialog asking for the three-pieces of the login, in this case, emailaddress, serialnumber, lastname. This string must match entries in the server's customer table so the exact components of the login string can be determined by the developer. If entered incorrectly the installer will re-display the login configuration dialog untill properly entered.

If the customer;s account login is changed or the account is expired, the installer will ask

for the credentials to be re-entered. Otherwise, if credential information is satisfied, the install proceeds without pausing or asking for any configuration.

Finally, use, HNDSETUP.APP to upload your installation containers to your website using the HTTP upload dialog built into that application.

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**Name:** HNDSETUPMKR\_XSA\_HC.APP  
**Build:** XSA-2 Installer TYPE 4 (HC) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 4  
**Classes:** [Classes By Procedure In HNDSETUPMKR\\_XSA\\_HC.APP](#)  
**Templates:** [Templates In Application HNDSETUPMKR\\_XSA\\_HC.APP](#)  
**Description:**

This "CHT Utility Application" builds an across-the-web installer for your e-commerce business in co-operation with HNDSETUP.APP (.HZO Maker) and a type 4, CHT-XSA style server, HNDSLFSVXSA.APP to securely deliver installation containers.

This installer has the XSA username and password hard coded (hence "HC" in the name) into the application from the template where it is entered.

A hard-coded username/password of this sort in your installer, assumes you don't need download control over specific individuals. For instance, your installer is provided to a company's IT department to update your product installation on their network. You can still turn these installers off or force them to be updated periodically by using the server config, to change the required username/password.

Other, more individually controllable, variations of this installer are possible, of course. And, in addition to this one, we have several examples in the CHT Toolkit. Search in /HNDAPPS/ for HNDSETUPMKR\_XSA\*.APP.

First, use HNDSETUP.APP to build an .HZO container with the files to be installed. Set up a server based on HNDSLFSVXSA.APP to deliver your e-commerce web pages as well as your installation containers.

Then use a renamed copy of this application and complete the template prompts in your version of this app to build your install following its example.

Once the template dialogs have been satisfactorily completed, compile the application (your renamed copy of this application) to build the installer/updater for the HZO container configured in the template.

Finally, use, HNDSETUP.APP to upload your installation containers to your website using the HTTP upload dialog built into that application.

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**Name:** HNDSETUPMKR\_XSA\_LOOKUP.APP  
**Build:** XSA-2 Installer TYPE 4 (LookUp) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 4  
**Classes:** [Classes By Procedure In HNDSETUPMKR\\_XSA\\_LOOKUP.APP](#)  
**Templates:** [Templates In Application HNDSETUPMKR\\_XSA\\_LOOKUP.APP](#)  
**Description:**

This "CHT Utility Application" builds an across-the-web installer for your e-commerce business in co-operation with HNDSETUP.APP (.HZO Maker) and a type 4, CHT-XSA style server, HNDSLFSVXSA.APP to securely deliver installation containers.

First, use HNDSETUP.APP to build an .HZO container with the files to be installed. Set up a server based on HNDSLFSVXSA.APP to deliver your e-commerce web pages as well as your installation containers. Configure a global username/password combination to control installation access by your installers.

Then use a renamed copy of this application and complete the template prompts in your version of this app to build your install following its example.

Once the template dialogs have been satisfactorily completed, compile the application (your renamed copy of this application) to build the installer/updater for the HZO container configured in the template.

Finally, use, HNDSETUP.APP to upload your installation containers to your website using the HTTP upload dialog built into that application.

RE: SECURITY

The username/password required by this application for access to your server, is not hard coded as in HNDSETUPMKR\_XSA\_HC.APP. The first time this application is run, it pops up a dialog which requires the user to enter the correct username/password combination that you have provided to them. Thereafter this dialog does not re-appear unless it fails to successfully contact your server (because perhaps you changed the required server credentials).

At that point, new access information can be provided to the user-base, or not, depending on the update privileges to which they are entitled by your update policy.

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**Name:** HNDSHCUT.APP  
**Build:** Shortcut Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDSHCUT.APP](#)  
**Templates:** [Templates In Application HNDSHCUT.APP](#)  
**Description:**

This "CHT Batch Bot" application is a utility that can be incorporated into installation applications or scripts to accomplish a startup link (application shortcut) for the application being installed.

HNDSHCUT.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

It has no interface and should be run from the DOS prompt or called with clarion RUN() from an application button or menu.

Parameters must appear in one continuous line on the application command line separated by spaces with each item surrounded by double quotes.

Parameters are as follows:

- 1) Application name and path  
eg: "c:\c10\accessory\hnd\hndcmp.exe"
- 2) Application description.  
eg: "CHT Clarion Project Builder"
- 3) Short cut file name.  
eg: "CHT Clarion Project Builder.lnk"
- 4) Application work path  
eg: "c:\clarion10\hndapps"
- 5) Installation location (usually "5" for \program files\  
eg: "5"
- 6) Installation Icon (usually "0" for first application icon)  
eg: "0"

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**Name:** HNDSLFCL.APP  
**Build:** File Client TYPE 4 (Basic) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP CLIENT TYPE 4  
**Classes:** [Classes By Procedure In HNDSLFCL.APP](#)  
**Templates:** [Templates In Application HNDSLFCL.APP](#)  
**Description:**

This application is a test client to be used with HNDSLFSV.APP or HNDSLFSVXSA2PART\_100\_88.APP or HNDSLFSVXSA2PART\_100\_88.APP to test some basic principles surrounding client connections and commands sent to a custom CHT Server.

The application illustrates how to make file download requests from a Clarion application and how to send upload files to a CHT-style custom server (usually a type 4 Server).

A log-in dialog has been added, under an unlock image button on the tool bar. This produces an XSA 2-part authentication dialog for server-level authentication prior to access being allowed. The USER NAME and PASS CODE #, entered must match the same two values established on the server.

The HNDSLFCL.APP illustrates two download functions: HTTPGetFile() and HTTPGetFileBasic() and two upload functions HTTPPutFile() and HTTPPutFileBasic(). The two "Basic" functions are silent and do not present a progress window, while standard HttpGetFile and HttpPutFile functions provide a progress window with a cancel button.

These four functions are hosted in the CHT Class HNDCLIENT and are made available in the application by a template called EmbedHTTPClientFunctions.

This application requires no .DCT (Clarion Dictionary).

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**Name:** HNDSLFCMD.APP  
**Build:** HTTP Up-Dwn Command Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDSLFCMD.APP](#)  
**Templates:** [Templates In Application HNDSLFCMD.APP](#)  
**Description:**

This "CHT Batch Bot" application is a command-line HTTP tool which can send to, fetch and erase files from any standard CHT HTTP site managed by a Type 4 CHT Server such as HNDSLFSV.APP.

The "CHT Batch Bot" application can be called from one of your Clarion applications, a Windows batch file or a Windows .VBS script to provide reliable file upload, download and delete services.

HNDSLFCMD.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

#### CONFIGURATION COMMANDS:

--config0  
    [CFG] Set up HTTP configuration information #0.  
--config1  
    [CFG] Set up HTTP configuration information #1.  
--config2  
    [CFG] Set up HTTP configuration information #2.

#### SET COMMANDS:

"Set" commands may be combined with --send, --fetch or --erase.

--set0  
    [CFG] Select and use configuration #0.  
--set1  
    [CFG] Select and use configuration #1.  
--set2  
    [CFG] Select and use configuration #2.  
--set  
    [CFG] Manually inserted url and port, ignore config settings.  
    E.G. --set http://www.cwhandy.org:9000/  
--userpass  
    [CFG] Manually inserted username and password  
    E.G. --userpass username:userpass

#### ACTION COMMANDS

--send  
    [REQ] Provides file name of the local file to be uploaded.  
    Use with --local to name the local pickup directory.  
    Use with --remote to name the remote target directory.  
    Multiple files may be listed, separated by commas.

--fetch  
    [OPT] File name of a remote file to be downloaded.  
    Use instead of --send or --erase for downloading files.  
    Use with --local to name the local target directory.  
    Use with --remote to name the remote pickup directory.  
    Multiple files may be listed, separated by commas.

--erase

[OPT] Provides file to be erased from a remote directory.  
Use instead of --fetch and --send when deleting.  
Use with --remote to name the remote directory.  
Multiple files may be listed, separated by commas.

SOURCE/TARGET COMMANDS:

--remote

[OPT] Names the remote directory with which to interact.  
Remote directory always rooted in server /run/ directory.  
Example usage: subdir1/subdir2/  
Defaults to the server /run/ directory if omitted.

--local

[OPT] Names a local directory to indicate --send pickup directory or to indicate --fetch target directory.  
Defaults to the application directory if omitted.

HELP COMMANDS:

--help

[OPT] Pops up a splash help screen.  
Creates hndslfcmdhelp.txt which contains the contents of the same splash screen.

--video

[OPT] Displays a video or a document from the web which further explains use of the application.

--update

[OPT] Application self-updates from the web.  
Utilizes CHTSNAPGET.EXE if / when invoked.

LOGGING:

All successful transactions and/or errors are logged into "hndslfcmd.log" located in the same directory as the hndslfcmd.exe.

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**Name:** HNDSLFCMDSNAPTEST.APP  
**Build:** CHT BOT HNDSLFCMD.EXE Example [V10.17.11.0289]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDSLFCMDSNAPTEST.APP](#)  
**Templates:** [Templates In Application HNDSLFCMDSNAPTEST.APP](#)  
**Description:**

This application illustrates how to incorporate HNDSLFCMD.EXE into a Clarion application via the global SNAP-IN interface template "CHT ApplicationSnapIns".

HNDSLFCMD.EXE is a command-line utility to upload and download files to or from a standard, unprotected web url like a generally accessible web page or open file delivery URL. It uses the HTTP protocol.

HNDSLFCMD.EXE also has secure-file access capabilities. This requires user knowledge of the user-name/password combination protecting the file or files being downloaded or uploaded.

Any questions, feel free to ask at our CHT developer forum:  
<http://news.cwhandy.ca/LOGS>

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**Name:** HNDSLFSV.APP  
**Build:** XSA-2 Install Server TYPE 4 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 4  
**Classes:** [Classes By Procedure In HNDSLFSV.APP](#)  
**Templates:** [Templates In Application HNDSLFSV.APP](#)  
**Description:**

This application demonstrates primarily, the use of two Clarion Handy Tools Templates called EmbedBrowserServer and BrowserServerInitializationControls.

These extension/control templates provide TCP/IP connectivity with a browser or with a Clarion client application using HNDHttp or HNDClient classes. In this particular example, application functionality has been limited to acting as a static page browser server and providing two example UCR\$ (User Custom Request) procedure calls that may be called from client applications HNDHTGT.APP or HNDLFLCL.APP.

This application is entirely template-built and contains almost no hand-embedded code.

NOTE: This is a starting-point server from which to build forward. It proceeds to the point of delivering static HTML/JS/CSS pages. Many "extra" operations and features are ready to be grafted in by the developer.

To study servers derived from this one to become more advanced Page AND Installation servers, see HNDLFSVXSA.APP and HNDLFSVXSA3PART.APP.

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**Name:** HNDLFSVCUS.APP  
**Build:** XML2HTML Data Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDLFSVCUS.APP](#)  
**Templates:** [Templates In Application HNDLFSVCUS.APP](#)  
**Description:**

This application is a server-side data maintenance application paired with the following TYPE 2 server applications:

\*\* HNDLFSVXMLDATASVR.APP  
\*\* HNDNEWSLINKLISTSVR.APP  
\*\*\* HNDLFSVXMLFILESVR.APP

It provides maintenance of the data tables in HNDLFSVCUS.SQLITE.

It also shares a dictionary named HNDLFSV.DCT with these server applications. In this case, the default table name in use is HNDLFSVCUS.SQLITE.

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**Name:** HNDLFSVXMLDATASVR.APP  
**Build:** XML2HTML Server TYPE 2 (UCR\$) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 2  
**Classes:** [Classes By Procedure In HNDLFSVXMLDATASVR.APP](#)  
**Templates:** [Templates In Application HNDLFSVXMLDATASVR.APP](#)  
**Description:**

This application demonstrates TCP/IP connectivity with a browser or with a Clarion client application using HNDHttp or HNDClient classes.

In this particular example, application functionality has been limited to acting as a dynamic data, page server and providing several example UCR\$ (User Custom Request) procedure calls that may be called from an HTML web link.

This server was branched from HNDLFSV.APP in Sept 2017 to demonstrate building dynamic-data web pages based on CHT XML2HTMLGEN techniques. Take note that it has had it's default base page changed from INDEX.HTML to UCRBROWSES.HTML in order to simplify testing and navigating to the UCR\$ functions test page.

It utilizes a function called AutoGenHTMLFromXML\_VER02 exported from HNDXML2HTMLGEN.APP to convert standard CHT XML template files into HTML. This is the same functionality that triggers an HTML file to be generated from CHTSNAPEDIT.EXE when the F5 key is pushed.

Calling any one of this server's specialized UCR\$ functions, triggers the return of a dynamic data page based on one of CHT's .XML page templates.

One example, UCR\$=NEWSLINKLISTCOLUMNLABELS.UCR& calls a function in this server called NewsLinksListColumnLabels() which processes an XML template file called 000newslinklist.xml.

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**Name:** HNDSLFSVXMLFILESVR.APP  
**Build:** XML2HTML Server TYPE 2 (UCR\$) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 2  
**Classes:** [Classes By Procedure In HNDSLFSVXMLFILESVR.APP](#)  
**Templates:** [Templates In Application HNDSLFSVXMLFILESVR.APP](#)  
**Description:**

This application demonstrates TCP/IP connectivity with a browser or with a Clarion client application using HNDHttp or HNDClient classes.

In this particular example, application functionality has been limited to acting as a dynamic data, page server and providing several example UCR\$ (User Custom Request) procedure calls that may be called from an HTML web link.

This server was branched from HNDSLFSV.APP in October 2017 to demonstrate building dynamic-data web pages based on CHT XML2HTMLGEN techniques. Take note that it has had it's default base page changed from INDEX.HTML to UCRFILESERVER.HTML in order to simplify testing and navigating to the UCR\$ functions test page.

It utilizes a function called AutoGenHTMLFromXML\_VER02 exported from HNDXML2HTMLGEN.APP to convert standard CHT XML template files into HTML. This is the same functionality that triggers an HTML file to be generated from CHTSNAPEDIT.EXE when the F5 key is pushed.

Calling any one of this server's specialized UCR\$ functions, triggers the return of a dynamic data page based on one of CHT's .XML page templates.

NOTE: At time of writing, NOV 1, 2017 this server is under construction with expected completion before the end of 2017, at which time this "under-construction" notation will be removed.

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**Name:** HNDSLFSVXSA.APP  
**Build:** XSA-2 Install Server TYPE 4 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 4  
**Classes:** [Classes By Procedure In HNDSLFSVXSA.APP](#)  
**Templates:** [Templates In Application HNDSLFSVXSA.APP](#)  
**Description:**

This application consists of a Type-4 CHT static page server that has been XSA security enhanced for installation container delivery.

This uses a server-side configured 2-part username password setup (standard XSA) using CHT's HNDCONFIG class. Any client requesting an .HZO installation container is forced, via server function GetGetFileApproval() to present the correct username/password string.

The installation clients accessing this server must have pre-knowledge of the server's currently configured username/password in order to obtain installation containers. This username/password information is not exchanged between the server and the client or vice versa. The installation client either knows the login information ahead of time, and gains access or it is prohibited from obtaining installation containers.

This application is primarily template-built and contains almost no hand-embedded code.

This server and its example client installer HNDSLFSVXSAINSTALL.APP, an XSA installer, in combination with CHT's container builder app, HNDSETUP.APP combine to form a very flexible and secure, across-the-web, software, and/or document delivery system to Windows-based computers.

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**Name:** HNDSLFSVXSA2PART\_100\_82.APP  
**Build:** XSA-2 Install Server TYPE 4 [V10.17.11]  
**Date:** 12/13/2017

**Category:** HTTP SERVER TYPE 4  
**Classes:** [Classes By Procedure In HNDLFSVXSA2PART\\_100\\_82.APP](#)  
**Templates:** [Templates In Application HNDLFSVXSA2PART\\_100\\_82.APP](#)  
**Description:**

This application consists of a Type-4 CHT installation server that has been XSA-2-part security enhanced for delivery of remote data and files by remote procedure requests which in CHT parlance is User Custom Requests (UCR).

This uses a server-side configured 2-part username/password setup (standard XSA) which can be configured from the server menu via menu "Set uName and Pwd" menu.

This application uses a dictionary that defines an SQLite "Customer" file containing customer status information which can, depending on status field contents, allow or disallow an installation call from the customer's installation client.

This application is primarily template-built and contains almost no hand-embedded code.

This server and its example client installer HNDLFSVXSAINSTALL3PART.APP, an XSA-3 installer, in combination with CHT's container builder app, HNDSSETUP.APP combine to form a very flexible and secure, across-the-web, software, and/or document delivery system to Windows-based computers.

This server also utilizes a user/customer maintenance application called HNDLFSVCUS.APP which it calls via RUN() under the "Customer Maintenance Utility" menu. The path to this executable may need to be adjusted in the embed area where it is called. The customer maintenance app shares the HNDLFSV.DCT with this server application.

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**Name:** HNDLFSVXSA2PART\_100\_88.APP  
**Build:** XSA-2 Install Server TYPE 4 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 4  
**Classes:** [Classes By Procedure In HNDLFSVXSA2PART\\_100\\_88.APP](#)  
**Templates:** [Templates In Application HNDLFSVXSA2PART\\_100\\_88.APP](#)  
**Description:**

This application consists of a Type-4 CHT server that has been XSA security enhanced for installation container delivery and UCR\$ (User Custom Requests) from HNDXML2HTMLGEN.EXE and others.

This uses a server-side configured 2-part username password setup (standard XSA) to authenticate requests from its various clients.

This application uses a dictionary that defines an SQLite "Customer" file containing customer (bogus) status information which can be polled by customer email address to provide (bogus) receipt information when requested by HNDXML2HTMLGEN.EXE running any of the "receipt" templates: 000chtreceipt.xml and 000chtrenewalreminder.xml (and others).

This application is primarily template-built and contains almost no hand-embedded code.

This server also utilizes a user/customer maintenance application called HNDLFSVCUS.APP which it calls via RUN() under the "Customer Maintenance Utility" menu. The path to this executable may need to be adjusted in the embed area where it is called. The customer maintenance app shares the HNDLFSV.DCT with this server application.

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**Name:** HNDLFSVXSA3PART.APP  
**Build:** XSA-3 Install Server TYPE 4 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 4  
**Classes:** [Classes By Procedure In HNDLFSVXSA3PART.APP](#)  
**Templates:** [Templates In Application HNDLFSVXSA3PART.APP](#)  
**Description:**

This application consists of a Type-4 CHT static page server that has been XSA security enhanced for installation container delivery.



This uses a server-side configured 2-part username password setup (standard XSA) as well as a 3-part email,loginid,username setup (XSA-3) looked up in a user (customer, subscriber) file.

Which of these two security systems is applied by the server depends on the authorization header applied to a file request by the CHT XSA client application.

This application uses a dictionary that defines an SQLite "Customer" file containing customer status information which can depending on status field contains allow or disallow an installation call from the customer's installation client.

This application is primarily template-built and contains almost no hand-embedded code.

This server and its example client installer:

HNDSETUPMKR\_XSA3\_LOOKUP.APP is an XSA-3 (3-part login) installer, in combination with CHT's container builder app, HNDSETUP.APP combine to form a very flexible and secure, across-the-web, software, and/or document delivery system to Windows-based computers.

Another example client installer called:

HNDSETUPMKR\_XSA3\_HC.APP, is an XSA-3 (3-part login) installer, with the installer login hard-coded to a specific user in the data base (see template interface).

This server also utilizes a user/customer maintenance application called HNDLFSVCUS.APP which it calls via RUN() under the "Customer Maintenance Utility" menu. The path to this executable may need to be adjusted in the embed area where it is called. The customer maintenance app shares the HNDLFSV.DCT with this server application.

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**Name:** HNDSLIDER.APP  
**Build:** Demonstrate HNDComSlider Class [V10.17.11.0174]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Sliders And Progress  
**Classes:** [Classes By Procedure In HNDSLIDER.APP](#)  
**Templates:** [Templates In Application HNDSLIDER.APP](#)  
**Description:**

This application demonstrates a CHT COM Class Wrapper called HNDComSlider. It provides a full-feature interface to the COMCTL32.OCX ISlider control. See HNDCLDR.INC, HNDCLDR.CLW and HNDCLDR.TLB to study the header, code module and method interfaces respectively.

A CHT control template called HandyComSliderControl helps you drop this control onto any application window and instantiate the Clarion-style interface to the COM ISlider control.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDSMSMESSAGE.APP  
**Build:** CHT SMS Messaging Utility [V10.17.11.0414]  
**Date:** 12/13/2017  
**Category:** SMS Messages  
**Classes:** [Classes By Procedure In HNDSMSMESSAGE.APP](#)  
**Templates:** [Templates In Application HNDSMSMESSAGE.APP](#)  
**Description:**

This "CHT Utility Application" illustrates both CHT Native SMS messaging as well as SMS messages via SMTP. This application requires Clarion's CLARUNEXT.DLL but is otherwise stand-alone.

Further it is dependent on correct configuration of a valid SMTP server or SMS gateway setup with UserName, Password, Email/SMS Server and Email/SMS Return Address. Our template and SMS classes provide a configuration function with user-controllable registry location settings.

The SMS template illustrated is EMBEDSMSFUNCTIONS. The CHT class underlying this template is HNDSMS located in files HNDSMS.INC and HNDSMS.CLW.

Please read and understand the proper formation of SMS addresses before experimenting, using this URL:

([https://en.wikipedia.org/wiki/SMS\\_gateway](https://en.wikipedia.org/wiki/SMS_gateway)).

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**Name:** HNDSMTPNETDEMO.APP  
**Build:** CHT .NET SMTP [V10.17.11.0312]  
**Date:** 12/13/2017  
**Category:** Email Example  
**Classes:** [Classes By Procedure In HNDSMTPNETDEMO.APP](#)  
**Templates:** [Templates In Application HNDSMTPNETDEMO.APP](#)  
**Description:**

This application demonstrates CHT Class called HNDNetSMTP which sends email utilizing a DLL built with Microsoft's .NET C# compiler. The DLL is interfaced to Clarion using "COM Interop" a COM interface exposed by the .NET DLL.

The email template in use is called EMBEDNETSMTPCLASSES. The CHT Class used by this template is the HNDNETSMTPCLASS located in files HNDNETSMTP.INC and HNDNETSMTP.CLW.

This application and the HNDNetSMTP class, while doing some practical work, serve the primary purpose of allowing developers to explore the implications of using actual .NET DLLs in their Clarion applications. The operating system environment on which this application runs, must have at least Microsoft Framework 2 installed.

The technique of using "COM Interop" to DLLs created with a .NET compiler such as C#.NET, VB.NET or Clarion.NET provide a wealth of opportunity to expand the capabilities of CHT and consequently the capabilities of Win32 Clarions. We'd appreciate your feedback in testing this simple application in your development environments.

This application now includes procedure(s) using the template CHTBestPracticeEmbedClass as an example for developers.

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**Name:** HNDSNAPTEST.APP  
**Build:** CHT SNAP-IN Template Example 2 [V10.17.11.0189]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDSNAPTEST.APP](#)  
**Templates:** [Templates In Application HNDSNAPTEST.APP](#)  
**Description:**

This application illustrates how to incorporate CHTSNAPGET.EXE into a Clarion application via the global SNAP-IN interface template "CHT ApplicationSnapIns".

CHTSNAPGET.EXE is a command-line utility to download files from a standard, unprotected web url like a generally accessible web page or open file delivery URL. It is able to use standard HTTP:// or HTTPS:// protocols. It is also able to download from CHT-XSA password protected servers.

Any questions, feel free to ask at our CHT developer forum:  
<http://news.cwhandy.ca/LOGS>

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**Name:** HNDSOURCEMAPIDEMO.APP  
**Build:** MAPI / ZIP / ABC Source Procedure [V10.17.11.0322]  
**Date:** 12/13/2017  
**Category:** Email Example  
**Classes:** [Classes By Procedure In HNDSOURCEMAPIDEMO.APP](#)  
**Templates:** [Templates In Application HNDSOURCEMAPIDEMO.APP](#)  
**Description:**

This application illustrates two CHT templates that enable embeddable CHT classes inside the ABC Source Procedure template. These are:

Source\_EmbedMAPIFunctions template  
Source\_EmbedZipFunctions template

The SMTP template provides an embeddable CHT class called HNDsmtp located in

HNDIMAIL.INC and HNDIMAIL.CLW.

The ZIP template provides an embeddable CHT Class called HNDComZipClass located in HNDZIPPR.INC and HNDZIPPR.CLW.

If you want to learn to hand code with these two classes, this application is a perfect learning platform. The procedures provided may also be imported directly into your apps to provide pre-built functionality.

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**Name:** HNSOURCESMTPDEMO.APP  
**Build:** SMTP / ZIP / ABC Source Procedure [V10.17.11.0230]  
**Date:** 12/13/2017  
**Category:** Email Example  
**Classes:** [Classes By Procedure In HNSOURCESMTPDEMO.APP](#)  
**Templates:** [Templates In Application HNSOURCESMTPDEMO.APP](#)  
**Description:**

This application illustrates a two CHT templates that work with the ABC Source Procedure template. These are:

Source\_EmbedSMTPFunctions template  
Source\_EmbedZipFunctions template

The SMTP template provides an embeddable CHT class called HNSMtp located in HNSMTP.INC and HNSMTP.CLW.

The ZIP template provides an embeddable CHT Class called HNDComZipClass located in HNDZIPPR.INC and HNDZIPPR.CLW.

If you want to learn to hand code with these two classes, this application is a perfect learning platform. The procedures provided may also be imported directly into your apps to provide pre-built functionality.

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**Name:** HNSPELLCHECKDEMO.APP  
**Build:** CHT Spell-Check English [V10.17.11.0162]  
**Date:** 12/13/2017  
**Category:** Spelling-Checker  
**Classes:** [Classes By Procedure In HNSPELLCHECKDEMO.APP](#)  
**Templates:** [Templates In Application HNSPELLCHECKDEMO.APP](#)  
**Description:**

This application demonstrates a control template called HandySpellCheckControl, a template that brings low-overhead, multi-language spell-checking to your applications.

It drops a single "Spell Check" button onto your window to trigger spell-checking in entry and text controls populated on the procedure window. Checking can be triggered for the entire window using the button provided or individual controls can be checked using a configurable hot key.

Further, individual words may be checked by selecting the word and using a configurable hot key. Initially we are providing, on request, lexicons for the following languages: English, Afrikaans, Croatian, French, German, Greek, Italian, Netherlands, Portugese, Russian, Spanish, Swedish, Ukranian.

Since these lexicons are derived from open-source word lists, we will ask developers seeking non-English dictionaries to help us develop a common-words list for their chosen language. A common-words list is a set of the top 25-50 most commonly used words. In English, for example, these are words like "the", "and", "to", and so forth.

As of CHT build 112A1.01 CHT spell checking has been taken out of BETA and placed into RELEASE status. Four dictionaries are presently available: English, French, Afrikaans, and Portugese. Aside from English, we chose to release these languages first because developers contacted us and specifically encouraged us to do so.

If you speak and work in any of the above listed, but not-yet-implemented languages, feel free to contact us and encourage us to give priority to your language in an upcoming build.

Any questions, feel free to ask.

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**Name:** HNDSPELLCHECKGLOBAL.APP  
**Build:** CHT Global Spell-Check English [V10.17.11.0178]  
**Date:** 12/13/2017  
**Category:** Spelling-Checker  
**Classes:** [Classes By Procedure In HNDSPELLCHECKGLOBAL.APP](#)  
**Templates:** [Templates In Application HNDSPELLCHECKGLOBAL.APP](#)  
**Description:**

This application demonstrates a global template called GlobalIncludeSpellingCheck, a template that brings low-overhead, multi-language spell-checking to your applications.

It drops a local spell check template called LocalIncludeSpellingCheck onto your window to trigger spell-checking in entry and text controls populated on the procedure window. Checking can be triggered for the entire window using CtrlF7 (reconfigurable) or individual controls can be checked using another configurable hot key.

Further, individual words may be checked by selecting the word and using a configurable hot key. Initially we are providing, on request, lexicons for the following languages: English, Afrikaans, Croatian, French, German, Greek, Italian, Netherlands, Portugese, Russian, Spanish, Swedish, Ukranian.

Since these lexicons are derived from open-source word lists, we will ask developers seeking non-English dictionaries to help us develop a common-words list for their common language. A common-words list is a set of the top 25-50 most commonly used words. In English, for example, these are words like "the", "and", "to", and so forth.

Four dictionaries are presently available: English, French, Afrikaans, and Portugese. Aside from English, we chose to release these languages first because developers contacted us and specifically encouraged us to do so.

If you speak and work in any of the above listed, but not-yet-implemented languages, feel free to contact us and encourage us to give priority to your language in an upcoming build.

Any questions, feel free to ask.

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**Name:** HNDSPPLITTERTEST.APP  
**Build:** CHT Splitter Example [V10.17.11.0143]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Splitters  
**Classes:** [Classes By Procedure In HNDSPPLITTERTEST.APP](#)  
**Templates:** [Templates In Application HNDSPPLITTERTEST.APP](#)  
**Description:**

This application demonstrates a CHT class called HNDsplitter (HNDSPPLITTER.INC/.CLW) and three related templates.

The EmbedHNDsplitter extension template is applied to the procedure first. This is the parent of the two related control templates. Then HandySplitBarVertical and HandySplitBarHorizontal can be applied as required by the developer.

This example has applied the ABC resizer to allow window and control resize. The EmbedHNDsplitter template allows for optional interaction with ABC resizer. The default setting is to disable this ABC resizer interaction. When ABC resizer is enabled, it's up to the developer to apply that template to the procedure and configure it to his liking.

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**Name:** HNDSQL0.APP  
**Build:** ExplorerBrowse SQL Query Experiment [V10.17.11.0388]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQL0.APP](#)  
**Templates:** [Templates In Application HNDSQL0.APP](#)  
**Description:**

This application demonstrates CHT Explorerbrowse used in an SQL setting.

It illustrates these concepts:

\*\*\* A CHT ExplorerBrowse implementation returning SQL in the foreground.

\*\*\* A hand built SQL query control that accepts an SQL-Language filter.

\*\*\* A hand built CHT query control that accepts a CHT Query-Language filter.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL1.APP

**Build:** ExplorerBrowse SQL Query Demo [V10.17.11.0247]

**Date:** 12/13/2017

**Category:** Querying, Locating And Filtering

**Classes:** [Classes By Procedure In HNDSQL1.APP](#)

**Templates:** [Templates In Application HNDSQL1.APP](#)

**Description:**

This application demonstrates CHT Explorerbrowse used in an SQL setting.

It illustrates these concepts:

\*\*\* A CHT Query Builder implementation returning SQL in the foreground.

\*\*\* A hand built SQL query control using an ABC reset field and a standard entry control

\*\*\* Hiding/unhiding columns programmatically

\*\*\* Hidden columns are hidden also in CHT Query Builder

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL10.APP

**Build:** LBX Demo (SQL) [V10.17.12]

**Date:** 12/13/2017

**Category:** LBX BROWSES

**Classes:** [Classes By Procedure In HNDSQL10.APP](#)

**Templates:** [Templates In Application HNDSQL10.APP](#)

**Description:**

This application demonstrates CHT ListBoxBrowseExtender used in an SQL setting. An ordinary Clarion list box is used to build a ABC-style browse resembling HandyMarkerBrowse.

It illustrates these concepts:

\*\*\* SQLSelectQ example of filling browse queue with user SELECT.

\*\*\* EmbedViewEx filling a browse queue using an in-line process.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL12.APP

**Build:** ExplorerBrowseOneColumnQueryControl [V10.17.11]

**Date:** 12/13/2017

**Category:** Querying, Locating And Filtering

**Classes:** [Classes By Procedure In HNDSQL12.APP](#)

**Templates:** [Templates In Application HNDSQL12.APP](#)

**Description:**

This application demonstrates CHT ExplorerBrowse used in an SQL setting along with three instances of a querying control template called ExplorerBrowseOneColumnQueryControl.

It illustrates these concepts:

\*\*\* A CHT ExplorerBrowse Template

\*\*\* 3 CHT ExplorerBrowseOneColumnQueryControls Templates

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** **HNDSQL2.APP**  
**Build:** HandyMarkerBrowse SQL Query Demo [V10.17.11.0210]  
**Date:** 12/13/2017  
**Category** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQL2.APP](#)  
**Templates:** [Templates In Application HNDSQL2.APP](#)  
**Description:**

This application demonstrates CHT HandyMarkerBrowse used in an SQL setting.

It illustrates these concepts:

- \*\*\* A CHT Query Builder implementation returning SQL in the foreground.
- \*\*\* An hand-built SQL query control using an ABC Reset Field and a standard entry control.
- \*\*\* Hiding/unhiding columns programmatically
- \*\*\* Hidden columns are hidden also in CHT Query Builder

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** **HNDSQL3.APP**  
**Build:** ExplorerBrowse SQL Query Demo [V10.17.11.0223]  
**Date:** 12/13/2017  
**Category** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQL3.APP](#)  
**Templates:** [Templates In Application HNDSQL3.APP](#)  
**Description:**

This application demonstrates CHT ExplorerBrowse used in an SQL setting.

It illustrates these concepts:

- \*\*\* A CHT ExplorerBrowse Template
- \*\*\* A CHT ExplorerBrowseQueryBuilder Template
- \*\*\* A CHT PopFavoriteQueries\_EXPB Template
- \*\*\* A CHT ExplorerBrowseLocatorControlEx Template
- \*\*\* A CHT ExplorerBrowseOneColumnQueryControl Template

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** **HNDSQL4.APP**  
**Build:** HandyMarkerBrowse Query Demo [V10.17.11.0205]  
**Date:** 12/13/2017  
**Category** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQL4.APP](#)  
**Templates:** [Templates In Application HNDSQL4.APP](#)  
**Description:**

This application demonstrates CHT HandyMarkerBrowse used in an SQL setting.

It illustrates these concepts:

- \*\*\* A CHT HandyMarkerBrowse Template
- \*\*\* A CHT HandyMarkerBrowseQueryBuilder Template
- \*\*\* A CHT PopFavoriteQueries\_HMB Template

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL5.APP  
**Build:** HandyQueryProcessLimiterQBControl [V10.17.11.0193]  
**Date:** 12/13/2017  
**Category:** Processes  
**Classes:** [Classes By Procedure In HNDSQL5.APP](#)  
**Templates:** [Templates In Application HNDSQL5.APP](#)  
**Description:**

This application demonstrates CHT Query Builder used in an SQL setting in combination with an ABC process and an ABC Pause Button.

It illustrates these concepts:

\*\*\* A CHT HandyQueryProcessLimiter Template

\*\*\* A CHT HandyQueryProcessLimiterQBControl Template

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL6.APP  
**Build:** HandyQueryReportLimiterQBControl [V10.17.11.0188]  
**Date:** 12/13/2017  
**Category:** Reports  
**Classes:** [Classes By Procedure In HNDSQL6.APP](#)  
**Templates:** [Templates In Application HNDSQL6.APP](#)  
**Description:**

This application demonstrates CHT Query Builder used in an SQL setting in combination with an ABC Report Template and an ABC Pause Button.

It illustrates these concepts:

\*\*\* A CHT HandyQueryReportLimiter Template

\*\*\* A CHT HandyQueryReportLimiterQBControl Template

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL7.APP  
**Build:** ExplorerBrowse SQL Query Demo [V10.17.11.0290]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQL7.APP](#)  
**Templates:** [Templates In Application HNDSQL7.APP](#)  
**Description:**

This application demonstrates CHT Explorerbrowse used in an SQL setting with locator template: ExplorerBrowseOneColumnQueryControl.

It illustrates these concepts:

\*\*\* CONTAINS query on a single field [configurable]

\*\*\* Display back-end SQL query to the window.

\*\*\* Execute Locator with tab or with GO button.

\*\*\* Insert fixed range query with a check box.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQL8.APP  
**Build:** HandyMarkerBrowseLocatorControlEx [V10.17.11.0071]

**Date:** 12/13/2017  
**Category** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQL8.APP](#)  
**Templates:** [Templates In Application HNDSQL8.APP](#)  
**Description:**

This application demonstrates CHT HandyMarkerBrowse used in an SQL setting with a new locator template called HandyMarkerBrowseLocatorControlEx.

It illustrates these concepts:

- \*\*\* Display data only when the filtering locator has an entry.
- \*\*\* Filtering locator filters on the current sort column.
- \*\*\* Locator drill-down "breadcrumb" trail until clear button.
- \*\*\* Display either CHT query language or SQL.
- \*\*\* Execute Locator with tab or with GO button.
- \*\*\* Report Example passing browse filter to report

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** **HNDSQL9.APP**  
**Build:** LBX Demo (SQL) [V10.17.12]  
**Date:** 12/13/2017  
**Category** LBX BROWSES  
**Classes:** [Classes By Procedure In HNDSQL9.APP](#)  
**Templates:** [Templates In Application HNDSQL9.APP](#)  
**Description:**

This application demonstrates CHT ListBoxBrowseExtender used in an SQL setting. An ordinary Clarion list box is used to build an ABC-style browse resembling HandyMarkerBrowse. Note that no ABC browse template is used here.

It illustrates these concepts:

- \*\*\* SQLSelectQ example of filling browse queue with user SELECT.
- \*\*\* EmbedViewEx filling a browse queue using an in-line process.
- \*\*\* Native LBX generated fill-from-view code.
- \*\*\* Incorporating an Update Form with UpdateButtons\_LBX.
- \*\*\* A hand-code created/managed query control.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** **HNDSQLPOPFVEXPB.APP**  
**Build:** Demonstrate PopFavoriteQueries\_EXPB [V10.17.11.0190]  
**Date:** 12/13/2017  
**Category** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQLPOPFVEXPB.APP](#)  
**Templates:** [Templates In Application HNDSQLPOPFVEXPB.APP](#)  
**Description:**

This application demonstrates CHT Explorerbrowse used in an SQL setting in conjunction with query template PopFavoriteQueries\_EXPB.

It illustrates these concepts:

- \*\*\* A Explorerbrowse implementation running on SQL Data Tables.
- \*\*\* CHT Query template PopFavoriteQueries\_EXPB.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQLPOPFVHMB.APP  
**Build:** Demonstrate PopFavoriteQueries\_HMB (SQL) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** Querying, Locating And Filtering  
**Classes:** [Classes By Procedure In HNDSQLPOPFVHMB.APP](#)  
**Templates:** [Templates In Application HNDSQLPOPFVHMB.APP](#)  
**Description:**

This application demonstrates CHT Explorerbrowse used in an SQL setting in conjunction with query template PopFavoriteQueries\_EXPB.

It illustrates these concepts:

\*\*\* A Explorerbrowse implementation running on SQL Data Tables.

\*\*\* CHT Query template PopFavoriteQueries\_EXPB.

This demonstration application requires the sample data base provided with MICROSOFT ACCESS, called Northwind. The application will find the data base and register it with ODBC if not already registered.

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**Name:** HNDSQLTRACE.APP  
**Build:** SQL Trace Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDSQLTRACE.APP](#)  
**Templates:** [Templates In Application HNDSQLTRACE.APP](#)  
**Description:**

This "CHT Utility Application" is designed to help you with your SQL application development projects by assisting with easy SQL tracing.

Start tracing by configuring the specific driver(s) used by your SQL application followed by a click on the "Minimize" button . Once this application is started, then start your SQL application.

Navigate in your SQL application to the specific area to be tested and bring HNDSQLTRACE.APP back up using the windows task bar icon menu provided.

Manual tracing:

When HNDSQLTRACE.APP re-appears all SQL statements executed to that point are displayed in reverse chronological order, with newest statements at the top. From this point forward, to trace specific actions, click the "Clear" button and interact briefly with your SQL application. Click the "Read Next" button to view the most recent SQL activity raised by your application. Repeat as necessary.

Automatic tracing:

Check the "Auto Trace" switch. A window timer will periodically refresh to the latest SQL select or group of selects issued by your application.

File Trace or Direct Trace:

These modes are mutually exclusive.

File trace is performed by communicating with SQL trace information issued by Clarion's file drivers into a text file. In "File Trace" mode a developer can trace any and all SQL select outputs from various browses in an application as long as HNDSQLTRACE.EXE is started and configured before starting the application.

"Direct Trace" mode is performed by low-level communication, usually from a specific procedure under scrutiny. This mode requires one of CHT's browse templates to be configured to issue trace information during interaction with the user.

This application includes the template CHTBestPracticeEmbedClass as an example for developers to study.

NOTE: As of November 1, 2015, and C10 Version 11975 file trace configuration information is now stored in "DRIVERS.INI" located at CSIDL\_APPDATA\SoftVelocity\Clarion\CLARION\_VERSION.

In all earlier versions of clarion, file trace configuration information was located in long obsolete, win.ini.

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**Name:** HNDSTARTERSERVICE\_A.APP  
**Build:** CHT Application Starter Service A [V10.17.11.0159]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNDSTARTERSERVICE\\_A.APP](#)  
**Templates:** [Templates In Application HNDSTARTERSERVICE\\_A.APP](#)  
**Description:**

This application uses global template HandyNTServiceFunctions and a procedure template called EmbedUtilityFunctions

The application runs as a service to start user-designated applications (like servers) listed in the application's configuration file HNDSTARTERSERVICE\_A.INI. Up to 100 applications may be started by this service. A delay time setting allows sufficient time after a re-boot for the machine to settle down before your applications are started, each about 30 seconds apart.

To install the service, from the DOS prompt type:

```
HNDBACKUPSERVICE_A /IS
```

To start the service - once installed - from the DOS prompt type:

```
HNDBACKUPSERVICE_A /SS
```

To stop the service from the DOS prompt type:

```
HNDBACKUPSERVICE_A /STOP
```

To remove the service, from the DOS prompt type:

```
HNDBACKUPSERVICE_A /RS
```

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**Name:** HNDSTOPBATCH.APP  
**Build:** Batch File Stop Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDSTOPBATCH.APP](#)  
**Templates:** [Templates In Application HNDSTOPBATCH.APP](#)  
**Description:**

This "CHT Batch Bot" application may be called to start from a CHT Clarion Project Builder or CHT Batch Runner batch script to generate a STOP.TXT file into the windows \temp\ directory.

Batch scripts can be set to check for this file, in order to stop long batch scripts in mid-stream. CHT Clarion Project Builder generates a STOP.TXT file check into its scripts to stop them before they complete.

HNDSTOPBATCH.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

This splash screen is only added to the application for documentation purposes.

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**Name:** HNDSVLV.APP  
**Build:** File Server TYPE 3 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 3  
**Classes:** [Classes By Procedure In HNDSVLV.APP](#)  
**Templates:** [Templates In Application HNDSVLV.APP](#)  
**Description:**

This application is intended as a starting point for developers to build file transfer servers of various sorts that act like FTP servers but utilize the HTTP protocol including encryption and compression.

Several demo client applications are provided to subscribers: HNDFLCLN.APP, HNDLIVUP.APP and HNDFILCL.APP. Another client application called HNDHTGT.APP illustrates making on-the-fly file requests from this server using the HNDHTTP and HNDHTTPClient classes.

The server maintains complete control of which files and directories are visible to the client. File transfers are optionally compressed and/or encrypted at the request of the client application.

This application is entirely template-built and contains almost no hand-embedded code. It is based on a dictionary called HNDFILSV.DCT.

NOTE: This is a starting-point server from which to build forward. The "file transfer" portion of the server is already installed.

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**Name:** HNDTEAMDOCSEVER.APP  
**Build:** Documentation Server TYPE 4 [V10.17.11]  
**Date:** 12/13/2017  
**Category:** HTTP SERVER TYPE 4  
**Classes:** [Classes By Procedure In HNDTEAMDOCSEVER.APP](#)  
**Templates:** [Templates In Application HNDTEAMDOCSEVER.APP](#)  
**Description:**

This "CHT Utility Application" acts as an HTML page server intended to display application information generated from your applications via CHT Clarion Project Builder"

For developers working in a team, especially teams with remote members, it's useful for members to know which versions of the applications for which they are responsible have been centrally compiled for QA. With each re-build, using CHT Compile Manager, a set of HTML pages is generated into this server's "run" directory, detailing the applications with a variety of information from version number, to procedure docs, to templates in use.

Note that the base page required by this server is docindex.html. CHT compile manager generates a matching index page with this name.

This application is entirely template-built and contains almost no hand-embedded code.

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**Name:** HNDTESTCHTSNAPGET.APP  
**Build:** CHTSNAPGET.EXE Example [V10.17.11.0239]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDTESTCHTSNAPGET.APP](#)  
**Templates:** [Templates In Application HNDTESTCHTSNAPGET.APP](#)  
**Description:**

This application illustrates how to incorporate CHTSNAPGET.EXE into a Clarion application via the global SNAP-IN interface template "CHT ApplicationSnapIns".

CHTSNAPGET.EXE is a command-line utility to download files from a standard, unprotected web url like a generally accessible web page or open file delivery URL. It uses the HTTP protocol.

CHTSNAPGET.EXE also has secure-file access capabilities. This requires user knowledge of the user-name/password combination protecting the file or files being downloaded. This secure mode can optionally use HTTPS protocol or HTTP protocol depending on server configuration.

An optional configuration switch for "CHT Servers" is available to interface with CHT Server only file fetch commands. This mode can be tested with HNDLFSV.APP or HNDFILSV.APP available also as demo applicaitons in your \HNDAPPS\ directory.

Any questions, feel free to ask at our CHT developer forum:  
<http://news.cwhandy.ca/LOGS>

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**Name:** HNDTESTCHTSNAPTOOLS.APP  
**Build:** CHT SNAP-IN Email Example [V10.17.11.0411]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDTESTCHTSNAPTOOLS.APP](#)  
**Templates:** [Templates In Application HNDTESTCHTSNAPTOOLS.APP](#)

## Description:

This application demonstrates the CHT template global template called ApplicationSnapIns.

This global template provides an interface to your application whereby several "Snap-In" components may be incorporated.

This application illustrates CHTSNAPEDIT.EXE, CHTSNAPMAPI.EXE and CHTSNAPSMTP.EXE.

CHT "Snap-Ins" are C# executables (EXEs) which provide various functionalities, which can be used standalone from the DOS prompt or programmatically from a Clarion application. The above "Snap-Ins" provide text editing, MAPI email and SMTP email, respectively.

Procedure-level button control templates are provided for each of the "Snap-In" executables in order to pass information to them and launch them from your application, seamlessly, just like dll-based procedures. Button templates are: HandyWindowsStopStartSnapSendButton, SnapEditStartButton, SnapSMTPStartButton, and SnapMAPIStartButton respectively.

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**Name:** HNDTESTCHTSNAPZIP.APP

**Build:** CHT Snap-In CHTSNAPZIP.EXE [V10.17.11.0232]

**Date:** 12/13/2017

**Category:** Application Snap-Ins

**Classes:** [Classes By Procedure In HNDTESTCHTSNAPZIP.APP](#)

**Templates:** [Templates In Application HNDTESTCHTSNAPZIP.APP](#)

## Description:

This application illustrates how to incorporate CHTSNAPZIP.EXE into a Clarion application via the global SNAP-IN interface template "CHT ApplicationSnapIns".

CHTSNAPZIP.EXE is a command-line utility that auto-zips a target directory while OPTIONALLY including any sub-directories of the source directory. CHTSNAPZIP.EXE also unzips to a target directory. This application illustrates how to do all of those things from inside a Clarion application using CHT Templates to write the code.

This application presents a SnapZipStartButton template and two input fields, a target zip file name field and a source directory name field. Complete these two fields and click the zip start button.

Other related templates used are SnapZipDirStartButton and SnapUnZipStartButton.

CHTSNAPZIP.EXE warns if the target zip file exists and if the source directory doesn't exist. Messages from CHTSNAPZIP.EXE appear in a window text control to tell you the outcome of pushing the zip button.

Any questions, feel free to ask at our CHT developer forum:  
[http://news.cwhandy.ca/LOG\\$](http://news.cwhandy.ca/LOG$)

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**Name:** HNDTESTEXCEL.APP

**Build:** CHT Excel Class Example [V10.17.11.0196]

**Date:** 12/13/2017

**Category:** MS Office Excel

**Classes:** [Classes By Procedure In HNDTESTEXCEL.APP](#)

**Templates:** [Templates In Application HNDTESTEXCEL.APP](#)

## Description:

This application illustrates a class called HNDXCELCLASS which provides a programmatic interface to Microsoft Excel for creating and opening documents.

The HNDXCELCLASS class is introduced to the procedure via a template called EmbedHndExcelClassFunctions.

Various controls are provided on the window that call into class functions to illustrate HNDXCELCLASS features.

Any questions, feel free to ask.

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**Name:** HNDTESTMAILCDO.APP  
**Build:** HNDMAILCDO.EXE Batch-Bot Example [V10.17.11.0118]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDTESTMAILCDO.APP](#)  
**Templates:** [Templates In Application HNDTESTMAILCDO.APP](#)  
**Description:**

This application demonstrates the CHT template global template called ApplicationSnapIns.

This global template provides an interface to your application whereby any of sixteen (16) "Snap-In" components may be incorporated.

This application illustrates use of CHT Batch-Bot HNDMAILCDO.EXE to send email from a Clarion window procedure.

This specific Batch-Bot is engaged with the procedure window using a control template called SnapHNDMAILCDOstartButton.

Procedure-level button control templates are provided for each of the "Snap-In" executables in order to pass information to them and launch them from your application, seamlessly, just like dll-based procedures.

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**Name:** HNDTESTMAILMAPI.APP  
**Build:** HNDMAILMAPI.EXE Batch-Bot Example [V10.17.11.0100]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDTESTMAILMAPI.APP](#)  
**Templates:** [Templates In Application HNDTESTMAILMAPI.APP](#)  
**Description:**

This application demonstrates the CHT template global template called ApplicationSnapIns.

This global template provides an interface to your application whereby any of sixteen (16) "Snap-In" components may be incorporated.

This application illustrates use of CHT Batch-Bot HNDMAILMAPI.EXE to send email from a Clarion window procedure.

This specific Batch-Bot is engaged with the procedure window using a control template called SnapHNDMAILMAPIstartButton.

Procedure-level button control templates are provided for each of the "Snap-In" executables in order to pass information to them and launch them from your application, seamlessly, just like dll-based procedures.

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**Name:** HNDTESTMAILNET.APP  
**Build:** HNDMAILNET.EXE Batch-Bot Example [V10.17.11.0084]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDTESTMAILNET.APP](#)  
**Templates:** [Templates In Application HNDTESTMAILNET.APP](#)  
**Description:**

This application demonstrates the CHT template global template called ApplicationSnapIns.

This global template provides an interface to your application whereby any of sixteen (16) "Snap-In" components may be incorporated.

This application illustrates use of CHT Batch-Bot HNDMAILNET.EXE to send email from a Clarion window procedure.

This specific Batch-Bot is engaged with the procedure window using a control template called SnapHNDMAILNETstartButton.

Procedure-level button control templates are provided for each of the "Snap-In" executables in order to pass information to them and launch them from your application, seamlessly, just like dll-based procedures.

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**Name:** HNDTESTMAILSMTP.APP  
**Build:** HNDMAILSMTP.EXE Batch-Bot Example [V10.17.11.0101]  
**Date:** 12/13/2017  
**Category:** Application Snap-Ins  
**Classes:** [Classes By Procedure In HNDTESTMAILSMTP.APP](#)  
**Templates:** [Templates In Application HNDTESTMAILSMTP.APP](#)  
**Description:**

This application demonstrates the CHT template global template called ApplicationSnapIns.

This global template provides an interface to your application whereby any of sixteen (16) "Snap-In" components may be incorporated.

This application illustrates use of CHT Batch-Bot HNDMAILSMTP.EXE to send email from a Clarion window procedure.

This specific Batch-Bot is engaged with the procedure window using a control template called SnapHNDMAILSMTPstartButton.

Procedure-level button control templates are provided for each of the "Snap-In" executables in order to pass information to them and launch them from your application, seamlessly, just like dll-based procedures.

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**Name:** HNDTESTSEMISILENTHZOCOMPRESSION.APP  
**Build:** JumpStartSemiSilentHZOCompression [V10.17.11.0186]  
**Date:** 12/13/2017  
**Category:** File And Memory Compression  
**Classes:** [Classes By Procedure In HNDTESTSEMISILENTHZOCOMPRESSION.APP](#)  
**Templates:** [Templates In Application HNDTESTSEMISILENTHZOCOMPRESSION.APP](#)  
**Description:**

This application provides a test interface for a CHT Jump Start function called JumpStartSemiSilentHZOCompression(). This function gives the developer an efficient, low-level function to create .HZO files. A callback to the parent window provides progress information to the parent window.

The JumpStartSemiSilentHZOCompression(). function takes the following parameters:

xSrc - A root source directory for files to be compressed  
xTgt - A target directory and file name of an hzo container  
xQry - A CHT File Query to describe the files to be compressed  
xPwd - A password to be used in data-encrypting the files  
xSubs - True or false to indicate search subdirectories of the root source  
xWinHndl - Window handle of parent window  
\*xProgress - Reference to progress variable local to parent window

The function returns the number of files compressed if successful and zero if it fails.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDTESTSEMISILENTHZODECOMPRESSION.APP  
**Build:** JumpStartSemiSilentHZODECompression [V10.17.11.0184]  
**Date:** 12/13/2017  
**Category:** File And Memory Compression  
**Classes:** [Classes By Procedure In HNDTESTSEMISILENTHZODECOMPRESSION.APP](#)  
**Templates:** [Templates In Application HNDTESTSEMISILENTHZODECOMPRESSION.APP](#)  
**Description:**

This application provides a test interface for a CHT Jump Start function called JumpStartSemiSilentHZODECompression(). This function gives the developer an efficient, low-level function to decontainerize .HZO files. A callback to the parent window provides progress information to the parent window.

The `JumpStartSemiSilentHZODeCompression()`. function takes the following parameters:

- `xSrcFile` - Name of the .HZO container to be processed
- `xTgt` - A target directory into which the .HZO is decontainerized
- `xQry` - A CHT File Query to describe the files to be decompressed
- `xPwd` - A password to be used in data-decrypting the files
- `xSubs` - True or false to include subdirectories of the root source
- `xWinHndl` - Window handle of parent window
- `xProgress` - Reference to progress variable local to parent window

The function returns the number of files decompressed if successful and zero if it fails.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDTESTSILENTHZOCOMPRESSION.APP  
**Build:** `JumpStartSilentHZOCompression` [V10.17.11.0215]  
**Date:** 12/13/2017  
**Category:** File And Memory Compression  
**Classes:** [Classes By Procedure In HNDTESTSILENTHZOCOMPRESSION.APP](#)  
**Templates:** [Templates In Application HNDTESTSILENTHZOCOMPRESSION.APP](#)  
**Description:**

This application provides a test interface for a CHT Jump Start function called `JumpStartSilentHZOCompression()`. This function gives the developer an efficient, low-level function to create .HZO files.

The `JumpStartSilentHZOCompression()`. function takes the following parameters:

- `xSrc` - A root source directory for files to be compressed
- `xTgt` - A target directory and file name of an hzo container
- `xQry` - A CHT File Query to describe the files to be compressed
- `xPwd` - A password to be used in data-encrypting the files
- `xSubs` - True or false to indicate search subdirectories of the root source

The function returns the number of files compressed if successful and zero if it fails.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDTESTSILENTHZODECOMPRESSION.APP  
**Build:** `JumpStartSilentHZODECompression` [V10.17.11.0206]  
**Date:** 12/13/2017  
**Category:** File And Memory Compression  
**Classes:** [Classes By Procedure In HNDTESTSILENTHZODECOMPRESSION.APP](#)  
**Templates:** [Templates In Application HNDTESTSILENTHZODECOMPRESSION.APP](#)  
**Description:**

This application provides a test interface for a CHT Jump Start function called `JumpStartSilentHZODECompression()`. This function gives the developer an efficient, low-level function to decontainerize .HZO files.

The `JumpStartSilentHZODECompression()`. function takes the following parameters:

- `xSrcFile` - The .HZO file to be decontainerized
- `xTgt` - A target directory into which the .HZO files are decompressed
- `xQuery` - A CHT File Query to describe the files to be decompressed
- `xPwd` - A password to be used in data-decrypting the files
- `xSubs` - True or false to include subdirectories of the root source

The function returns the number of files decompressed if successful and zero if it fails.

Any questions, feel free to ask: [news.cwhandy.com](mailto:news.cwhandy.com)

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**Name:** HNDTESTUTILITIES.APP  
**Build:** `Demonstrate HNDUTILITIES.DLL` [V10.17.11.0242]  
**Date:** 12/13/2017  
**Category:** Utility Functions  
**Classes:** [Classes By Procedure In HNDTESTUTILITIES.APP](#)  
**Templates:**

[Templates In Application HNDTESTUTILITIES.APP](#)

**Description:**

This application demonstrates the CHT template called GlobalIncludeHndUtilitiesDll. The template globally adds HNDUTILITIES.DLL to your application and makes the 125 functions in this dll available anywhere in your application.

Categories of functionality available are as follows:  
Manipulating/Finding Files and Paths, Windows SHELL, Email Address Validity Check, Case Adjustment, Disassembling Character Delimited Strings, Directories, Drives, Windows GUID, Determining Hash Values, Determining Data Type, Windows Environment, Reading/Writing Text Files, Windows System Manipulation, HTML HEX Colors, HTML Escape Characters, Windows Error Log, Runtime Error Viewing/Tracing, Memory Files, Manipulating/Extracting Strings

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- Name:** HNDTILEAPPLAUNCHER.APP  
**Build:** XML2HTML Tiles Demo [V10.17.11]  
**Date:** 12/13/2017  
**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDTILEAPPLAUNCHER.APP](#)  
**Templates:** [Templates In Application HNDTILEAPPLAUNCHER.APP](#)

**Description:**

This "CHT Batch Bot" is designed to act as a specialized FRAME for use with CHT TILE MENU HTML files such as hndtileapplaunchermenus.html, located in \accessory\hnd\html of your CHT installation.

It launches this hndtileapplaunchermenus.html automatically for purposes of demonstration but changing the HTML file being displayed is trivial. Display files can even be changed via hot-key CTRLF and selecting a new tile-menu file from \accessory\hnd\html\.

The example HTML file hndtileapplaunchermenus.html is created with CHTSNAPEDIT.EXE and XML style sheet 000tilemenuexample\$\$\$.XML. The finished HTML file is copied by the XML template to the name hndtileapplaunchermenus.html for the purposes of this example. Finished HTML names of generated entities is totally under developer control.

This application, while an example could easily be saved under a new name to become your own app-launcher by changing the name of the launched HTML file and developing new functionality via CHTSNAPEDIT.EXE from a renamed copy of 000tilemenuexample\$\$\$.XML and modifying the tile menu links.

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- Name:** HNDTPLBKC10DLL.APP  
**Build:** Template Extension DLL  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDTPLBKC10DLL.APP](#)  
**Templates:** [Templates In Application HNDTPLBKC10DLL.APP](#)

**Description:**

This application is CHT's template DLL.

This DLL is called from within CHT templates to perform various background tasks during the execution of our template code.

Some Specific tasks performed:  
Back up .APP and .DCT files as you're working on them...  
Run various CHT Utility Executables that extend IDE capabilities...  
Display CHT's Website and help documents located there...  
Display CHT's Forum via auto-login...

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- Name:** HNDTPLDOCGEN.APP  
**Build:** XML2HTML Template Docs Gen [V10.17.12]  
**Date:** 12/13/2017



**Category:** XML2HTML  
**Classes:** [Classes By Procedure In HNDTPLDOCGEN.APP](#)  
**Templates:** [Templates In Application HNDTPLDOCGEN.APP](#)  
**Description:**

This "CHT Utility Application" is used internally at CHT to read through our template files to gather "Using This Template" information which is then stored in a .TPS file so that it can be browsed and queried.

This is the "CHT XML2HTML" version which provides a stretchy document that will display correctly on most devices, small or large including phones. The output is based on an XML design file called 000TPLDOCS.XML.

The application also generates an ordered HTML version of this information for use in our website. Template listings may be generated in template-type order with breaks on type, or in template name order.

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**Name:** HNDUTILITIESDLL.APP  
**Build:** HNDUTIL Classes DLL [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDUTILITIESDLL.APP](#)  
**Templates:** [Templates In Application HNDUTILITIESDLL.APP](#)  
**Description:**

This application produces a DLL which contains roughly parallel functions to those provided in CHT's HNDUTIL class (hndutil.inc/.clw).

The DLL is used for illustration purposes in another CHT demo application called HNDTESTUTILITIES9.APP where you can see how the exported functions available in this DLL are used.

This application, besides providing a useful DLL that extends the Clarion language serves to illustrate how a CHT class (or classes) can be packaged as a DLL and used in your applications as if they were part of the Clarion language.

Powerful stuff this Clarion Handy Tools! Blows other 3rdparty tools right out of the water.

Any questions, feel free to ask on the CHT Subscriber forum:  
<http://news.cwhandy.ca/LOGS>

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**Name:** HNDUTILITYAPPS.APP  
**Build:** CHT Utility Apps Packed Into One Solution [V10.17.11.0014]  
**Date:** 12/13/2017  
**Category:** Application Exploration  
**Classes:** [Classes By Procedure In HNDUTILITYAPPS.APP](#)  
**Templates:** [Templates In Application HNDUTILITYAPPS.APP](#)  
**Description:**

HNDUTILITYAPPS.APP is a convenience, multi-app solution for multi-app recompile when required.

This app has only a splash screen for self-documentation purposes and serves only as a repository with which to multi-compile a set of CHT apps, without using CHT Project Builder.

It contains the following CHT Utility applications:

HNDENCRYPT.APP  
HNDMAILCDO.APP  
HNDMAILMAPI.APP  
HNDMAILSMTP.APP  
HNDMAKEHZO.APP  
HNDSLFCMD.APP  
HNDXML2HTMLGEN.APP  
and, of course. HNDUTILITYAPPS.APP

Any questions, feel free to ask: [news.cwhandy.com](http://news.cwhandy.com)

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**Name:** HNDVIDEOEDUCATION.APP  
**Build:** CHT Video Education Player [V10.17.11.0001]  
**Date:** 12/13/2017  
**Category:** Video Player  
**Classes:** [Classes By Procedure In HNDVIDEOEDUCATION.APP](#)  
**Templates:** [Templates In Application HNDVIDEOEDUCATION.APP](#)  
**Description:**

This "CHT Utility Application" is designed to be used as CHT's official media player (variation 2). It streams .MP4 versions of CHT Educational Videos from our CHT Video Server. At the same time the application also serves as a model for developers wishing to build their own streaming video players.

The player is built on CHT Template HandyComMediaControl which uses the Windows Media Player COM object based in WMP.DLL.

The player is capable of playing off-line any videos which have been previously viewed to completion. On-line viewing of uncached videos begins quickly, once approximately 5 percent of the video has downloaded, and already-cached videos begin immediately since they are not downloaded again.

If you plan to adapt this application to act as a video player for your own videos, a useful, accompanying application called HNBUILDVIDEOLIST.APP can build video index files on your CHT-based video server, of the type utilized by this application and by the HNDWindowsMediaPlayer class (HNDWMP.INC, HNDWMP,CLW, HNDWMP.TLB).

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**Name:** HNDVIDEOPLAYER.APP  
**Build:** CHT Personal Video Player [V10.17.11.0150]  
**Date:** 12/13/2017  
**Category:** Video Player  
**Classes:** [Classes By Procedure In HNDVIDEOPLAYER.APP](#)  
**Templates:** [Templates In Application HNDVIDEOPLAYER.APP](#)  
**Description:**

This "CHT Utility Application" is designed to be used as a general use, private video player (variation 3). It streams .MP4 versions of MP4 videos from one of our CHT Video Servers. At the same time the application also serves as a model for developers wishing to build their own streaming video players.

By way of example, we will present a variety of science and music videos that reflect our interests. The chief advantage of using a private video player rather than running the standard Windows media player is that this one does not reveal the location of videos and can act as a private video player or even an in-home player hooked to a private in-home video server.

The player is built on CHT Template HandyComMediaControl which uses the Windows Media Player COM object based in WMP.DLL.

The player is capable of playing off-line any videos which have been previously viewed to completion. On-line viewing of uncached videos begins quickly, once approximately 5 percent of the video has downloaded, and already-cached videos begin immediately since they are not downloaded again.

If you plan to adapt this application to act as a video player for your own videos, a useful, accompanying application called HNBUILDVIDEOLIST.APP can build video index files on your CHT-based video server, of the type utilized by this application and by the HNDWindowsMediaPlayer class (HNDWMP.INC, HNDWMP,CLW, HNDWMP.TLB).

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**Name:** HNDVISITME.APP  
**Build:** VisitMe Control Templates Demo [V10.17.11.0178]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Web Links  
**Classes:** [Classes By Procedure In HNDVISITME.APP](#)  
**Templates:** [Templates In Application HNDVISITME.APP](#)

## Description:

This application illustrates two web-link control templates called:

- \* HandyVisitMeControl - window hotlink to website
- \* HandyVisitMeControl\_EWF - window hot link to website, advanced

In about 30 seconds you can build procedures that, like the examples provided, launch your default browser and visit the URL of your choice.

While HandyVisitMeControl adds a HNDWindow class instance to your procedure unconditionally, the \_EWF template is a child of EmbedWindowFunctions (hence, \_EWF in the name) and only becomes visible when that template is already present on your application. It shares the HNDWindow class instance populated by EmbedWindowFunctions.

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**Name:** HNDWINDOWSSCRIPTHOSTDEMO.APP  
**Build:** CHT Windows Script Host Demo [V10.17.11.0185]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Scripting  
**Classes:** [Classes By Procedure In HNDWINDOWSSCRIPTHOSTDEMO.APP](#)  
**Templates:** [Templates In Application HNDWINDOWSSCRIPTHOSTDEMO.APP](#)  
**Description:**

This application illustrates how to use a CHT template called HandyCOMWindowsScriptHostControl. It incorporates a COM class wrapper for the MS Windows Script Host Object located in WSHOM.OCX.

Windows Script Host provides a wide variety of low-level operating system configuration functions normally enabled in WScript, JScript and VBScript. Microsoft describes Windows Script Host as follows: "Windows Script Host (WSH), a feature of the Microsoft Windows 2000/XP family of operating systems, is a powerful multi-language scripting environment ideal for automating system administration tasks.

Scripts running in the WSH environment can leverage the power of WSH objects and other COM-based technologies that support Automation, such as Windows Management Instrumentation (WMI) and Active Directory Service Interfaces (ADSI), to manage the Windows subsystems that are central to many system administration tasks."

This template and its underlying wrapper class, HNDScriptHostClass based in modules HNDWSHOM.INC /HNDWSHOM.CLW /HNDWSHOM.TLB provide you the equivalent of running windows administration scripts from inside your Clarion application, using Clarion syntax rather than writing WScript, JScript or VBScript.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDWINDOWSSERVICEDEMO.APP  
**Build:** CHT Demonstration NT Service [V10.17.11.0154]  
**Date:** 12/13/2017  
**Category:** Windows Services  
**Classes:** [Classes By Procedure In HNDWINDOWSSERVICEDEMO.APP](#)  
**Templates:** [Templates In Application HNDWINDOWSSERVICEDEMO.APP](#)  
**Description:**

This application, once configured, starts CHT backup application HNDFSYNC.EXE at the Start Time: indicated and creates a backup based on the .TPS Synch File provided. Use this application as a model for most hidden, background services required to perform some routine task on a regular schedule, as in this case a backup service.

To install this service application, at the DOS prompt type:  
HNDWINDOWSSERVICEDEMO /IS or /INSTALL

To start the service once installed, at the DOS prompt type:  
HNDWINDOWSSERVICEDEMO /SS or /START

To stop the service once installed, at the DOS prompt type:  
HNDWINDOWSSERVICEDEMO /SP or /STOP

To remove the service once installed, at the DOS prompt type:  
HNDWINDOWSSERVICEDEMO /RS or /REMOVE

See HNDSERVICEUP.APP and HNDSERVICEUPREMOTE.APP for examples of how to control and configure this service remotely from another application.

This application starts with its window minimized and hidden. Its application icon appears on the Windows Task Bar from which it can be commanded. By unchecking the "Application In Tray" switch on the EmbedWindowFunctions template in the main procedure, this application can be made to run completely hidden, while still being configured remotely from HNDSERVICEUPREMOTE.APP or HNDSERVICEUP.APP.

Any questions, feel free to ask.

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**Name:** HNDWINDOWSSHELLDEMO.APP  
**Build:** CHT Windows Shell Demo [V10.17.11.0179]  
**Date:** 12/13/2017  
**Category:** Extended Controls - Shell  
**Classes:** [Classes By Procedure In HNDWINDOWSSHELLDEMO.APP](#)  
**Templates:** [Templates In Application HNDWINDOWSSHELLDEMO.APP](#)  
**Description:**

This application illustrates how to use a CHT template called HandyCOMWindowsScriptHostControl. It incorporates a COM class wrapper for the MS Windows Script Host Object located in WSHOM.OCX.

Windows Script Host provides a wide variety of low-level operating system configuration functions normally enabled in WScript, JScript and VBScript. Microsoft describes Windows Script Host as follows: "Windows Script Host (WSH), a feature of the Microsoft Windows 2000/XP family of operating systems, is a powerful multi-language scripting environment ideal for automating system administration tasks. Scripts running in the WSH environment can leverage the power of WSH objects and other COM-based technologies that support Automation, such as Windows Management Instrumentation (WMI) and Active Directory Service Interfaces (ADSI), to manage the Windows subsystems that are central to many system administration tasks."

This template and its underlying wrapper class, HNDScriptHostClass based in modules HNDWSHOM.INC /HNDWSHOM.CLW /HNDWSHOM.TLB provide you the equivalent of running windows administration scripts from inside your Clarion application, using Clarion syntax rather than writing WScript, JScript or VBScript.

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDWORDDEMO.APP  
**Build:** MS Word Interface Demo [V10.17.11.0153]  
**Date:** 12/13/2017  
**Category:** MS Office Word  
**Classes:** [Classes By Procedure In HNDWORDDEMO.APP](#)  
**Templates:** [Templates In Application HNDWORDDEMO.APP](#)  
**Description:**

This application illustrates a class called HNDMSWORD which provides a programmatic interface to Microsoft Word for creating and opening documents.

The HNDMSWORD class is introduced to the procedure via a template called EmbedWordFunctions.

This application, in and of itself uses a window with no controls that minimizes itself and drops an icon on your tool bar from where several command menu items illustrate programmatic control over MS Word.

Any questions, feel free to ask.

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**Name:** HNDWORDINTERFACEDEMO.APP  
**Build:** HandyWordInterfaceControls Demo [V10.17.11.0154]  
**Date:** 12/13/2017  
**Category:** MS Office Interface  
**Classes:** [Classes By Procedure In HNDWORDINTERFACEDEMO.APP](#)

**Templates:** [Templates In Application HNDWORDINTERFACEDEMO.APP](#)

**Description:**

This application illustrates a class called HNDOfficeWord which provides a programmatic interface to Microsoft Word for creating and opening email, appointments, tasks and more.

The HNDOfficeWord class is introduced to the procedure via a template called EmbedHndWordClassFunctions. Then a second template called HandyWordInterfaceControls has been added to the main window to illustrate a variety of functions available.

This application is a work in progress intended for expansion as CHT Word templates are added and improved.

Any questions, feel free to ask.

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**Name:**

**HNDXML2HTMLGEN.APP**

**Build:**

XML2HTML Command Utility [V10.17.11]

**Date:**

12/13/2017

**Category:**

XML2HTML

**Classes:**

[Classes By Procedure In HNDXML2HTMLGEN.APP](#)

**Templates:** [Templates In Application HNDXML2HTMLGEN.APP](#)

**Description:**

This "CHT Batch Bot" application runs from various other CHT Batch-Bots and Snap-Ins in order to generate user-embedded XML template files into stand-alone HTML pages and forms.

It may also be run directly from a DOS batch file or developer application implementing XML to HTML processing.

CHT Snap-Edit now calls this HTML generator exclusively to transform XML template files into HTML before previewing.

This generator implementation can access and call remote procedures established in a CHT client data server to request data packages which are then merged into the HTML document. Several example XML templates have been provided to illustrate insertion of remote data from a CHT server by UCR (user custom request): 000CHTRECEIPTBLUE.XML, 000CHTRECEIPTBLACK.XML, 000CHTUPDATERENEWALLETTER.XML.

A document is in preparation which will explain in detail the structuring of various interchangeable XML template designs with which this generator-application will operate to create HTML. For example, mail-merge letters, static web pages, interactive web forms, tile menus and more.

**GENERATING:**

--input  
[REQ] name of the XML input template file  
--output  
[OPT] name of the HTML output template file  
--prevw [OPT] preview HTML after generate  
--noprevw [OPT] no preview HTML after generate

**CONFIGURE DATA SERVER:**

--config  
[OPT] configure remote data server for secure access

**HELP:**

--help  
[CFG] Pops up a splash help screen  
--update  
[CFG] Self-update HNDMAILCDO.EXE to the latest version.  
Utilizes CHTSNAPGET.EXE if / when unvoked.  
--video  
[OPT] Displays a video or document from the web that further explains use of this application.

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**Name:** HNDXSAKIT1.APP  
**Build:** CHT-XSA-KIT-01 Gen Pack [V10.17.11.0037]  
**Date:** 12/13/2017  
**Category:** XSA-KIT GEN PACK  
**Classes:** [Classes By Procedure In HNDXSAKIT1.APP](#)  
**Templates:** [Templates In Application HNDXSAKIT1.APP](#)  
**Description:**

This application serves as a repository application which pulls together the four separate projects that comprise CHT-XSA-KIT-01.

It serves only as a convenience to pull these four projects together for easy examination, compilation and customization where necessary.

The projects contained in CHT-XSA-KIT-01 are:  
CHT-XSA-KIT-01.01 - HNDSLFCMDXSA.CWPROJ  
CHT-XSA-KIT-01.02 - HNDSLFSVXSA.CWPROJ  
CHT-XSA-KIT-01.03 - HNDSETUPXSA.CWPROJ  
CHT-XSA-KIT-01.04 - HNDINSTALLXSA.CWPROJ

Because this is an .APP it is distributed only to subscribers to the full CHT Toolkit, as it uses CHT templates in its design.

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**Name:** HNDXSAKIT1SETUP.APP  
**Build:** CHT-XSA-KIT-01 - Project Setup Wizard [V10.17.11.0078]  
**Date:** 12/13/2017  
**Category:** Application Installation Utility  
**Classes:** [Classes By Procedure In HNDXSAKIT1SETUP.APP](#)  
**Templates:** [Templates In Application HNDXSAKIT1SETUP.APP](#)  
**Description:**

This single, across-the-web installer application downloads and installs the first four XSA-STANDALONE-PROJECTS which constitute CHT-XSA-KIT ONE.

Please, read about these four projects in the ABOUT CHT COMPONENTS section of our website.

This application is a generated copy of a CHT demo application called HNDSETUPMKR.APP with some detail changes made in the code to describe what it is we're installing.

To modify this in order to download and install an .HZO containing your own software project(s) or application(s), see the source areas explicitly marked for easy modification.

After the installation container is built, we're using HNDSETUPXSA.EXE to upload our container (.HZO) file, and this installer .EXE file to our website using the HTTP upload capabilities built right into that application.

Any questions, visit CHT's support forum at:  
<http://support.cwhandy.ca>

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**Name:** HNDXTEST.APP  
**Build:** Encryption Test Bench Demo [V10.17.11.0168]  
**Date:** 12/13/2017  
**Category:** File And Memory Encryption  
**Classes:** [Classes By Procedure In HNDXTEST.APP](#)  
**Templates:** [Templates In Application HNDXTEST.APP](#)  
**Description:**

LOW-LEVEL MEMORY AND FILE ENCRYPTION EXAMPLES

This application demonstrates the low-level file and memory encryption, capabilities of the HNDEncrypt class.

\* Class attached to procedure using EmbedObject template  
\* 128 Bit encryption inherits abilities from Windows Crypto API

- \* Files encrypted or decrypted in a single pass
- \* Optional file compression/decompression
- \* Encrypt a STRING or CSTRING memory buffer in-memory
- \* Decrypt a STRING or CSTRING memory buffer in-memory
- \* Convert Encrypted Data to Base64 for web transfer
- \* Optional encryption key generation
- \* Encrypt passwords with embedded key using SetPass(), GetPass()
- \* Encrypt buffers with embedded key using AutoEncrypt(),AutoDecrypt()
- \* More...

Any questions, feel free to ask: news.cwhandy.com

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**Name:** HNDZDEMO.APP  
**Build:** File Compression/Decompression Demo [V10.17.11.0177]  
**Date:** 12/13/2017  
**Category:** File And Memory Compression  
**Classes:** [Classes By Procedure In HNDZDEMO.APP](#)  
**Templates:** [Templates In Application HNDZDEMO.APP](#)  
**Description:**

This application uses the generic template EmbedDiskFunctions to attach a class called HNDDISK to your application procedures. The application illustrates the use of two HNDDISK functions:  
 OBJ.BulkShrinkFiles()  
 OBJ.BulkGrowFiles()

The proprietary CHT compression library is used by some of the functions in HNDDisk for file compression and decompression. The compression library is run-time loaded, so that your app will run whether this DLL library is present or not.

An application-global template called IncludeCompressionLibrary is available for you to attach to your application if you plan on using CHT compression. It will remind you in the standard ship (.SHP) list to include HNDZLIBX.DLL. If your application uses the HNDDISK class but does not call any of the compression methods, it's not necessary to include the compression library with your final application.

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**Name:** HNDZINDEX.APP  
**Build:** Installation Tuner Utility [V10.17.11]  
**Date:** 12/13/2017  
**Category:** TOOLKIT UTILITY  
**Classes:** [Classes By Procedure In HNDZINDEX.APP](#)  
**Templates:** [Templates In Application HNDZINDEX.APP](#)  
**Description:**

This "CHT Utility Application" helps CHT subscribers validate and tune their installations after WEBUPDATER, installation/update sessions.

During the "Check Installation" phase it compares a user's CHT files against HASH values available in the installation index. Missing, out-of-date and changed files are marked accordingly in the index.

In the "Tune Installation" pass, the results of the "Check Installation" phase are used to install or re-install missing and out of date files from CHT's installation containers. Files are decompressed and placed in the correct target directory and the index is updated.

With this application you are able to roll-back the current CHT installation to its install-time state after you've changed any component of the toolkit such as a demo application.

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**Name:** HNDZIPNMAILBBOT.APP  
**Build:** ZipN Email (BOT SMTP) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNMAILBBOT.APP](#)  
**Templates:** [Templates In Application HNDZIPNMAILBBOT.APP](#)

## Description:

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's Batch-Bot SMTP executable HNDMAILSMTP.EXE launched via CHT's Global and Local templates GlobalEmbedHNDSnapCallFunctions, ProcedureSnapIns and SnapHNDMAILSMTPSnapButton, respectively.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An SMTP configuration dialog lets you preconfigure up to 3 selectable SMTP servers to handle the sending of your email and zip attachment.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPNEMAILBBOTCDO.APP  
**Build:** ZipN Email (BOT CDO) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNEMAILBBOTCDO.APP](#)  
**Templates:** [Templates In Application HNDZIPNEMAILBBOTCDO.APP](#)

## Description:

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's Batch-Bot SMTP executable HNDMAILCDO.EXE launched via CHT's Global and Local templates GlobalEmbedHNDSnapCallFunctions, ProcedureSnapIns and SnapHNDMAILCDOSnapButton, respectively.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An SMTP configuration dialog lets you preconfigure up to 3 selectable SMTP servers to handle the sending of your email and zip attachment.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPNEMAILBBOTMAPI.APP  
**Build:** ZipN Email (BOT MAPI) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNEMAILBBOTMAPI.APP](#)  
**Templates:** [Templates In Application HNDZIPNEMAILBBOTMAPI.APP](#)

## Description:

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's Batch-Bot SMTP executable HNDMAILMAPI.EXE launched via CHT's Global and Local templates GlobalEmbedHNDSnapCallFunctions, ProcedureSnapIns and SnapHNDMAILMAPISnapButton, respectively.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

This application's configuration button reminds only that MAPI email leverages the default email client to send mail, so it is only necessary that a working email client (e.g. Windows Live, Outlook) be present in order for email sending to operate correctly.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.



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**Name:** HNDZIPNEMAILCDO.APP  
**Build:** ZipN Email (CDO) [V10.17.11.0101]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNEMAILCDO.APP](#)  
**Templates:** [Templates In Application HNDZIPNEMAILCDO.APP](#)

**Description:**

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's native Clarion-code CDO classes located in HNDMSCDO.INC/HNDMSCDO.CLW.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An SMTP/CDO configuration dialog lets you preconfigure up to three target SMTP servers to handle the sending of your email and zip attachment.

Your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPNEMAILMAPI.APP  
**Build:** ZipN Email (MAPI) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNEMAILMAPI.APP](#)  
**Templates:** [Templates In Application HNDZIPNEMAILMAPI.APP](#)

**Description:**

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's native Clarion-code MAPI classes located in HNDMAPI.INC/HNDMAPI.CLW.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

Email configuration is carried out on the system's default MAPI client software. Success with this MAPI client is dependent on a MAPI-compliant email application being installed and configured on the hosting computer.

This application's email configuration button reminds only that MAPI email leverages the default email client to send mail, so it is only necessary that a working email client (e.g. Windows Live, Outlook) be present in order for email sending to operate correctly.

Your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPNEMAILNET.APP  
**Build:** ZipN Email (NET) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNEMAILNET.APP](#)  
**Templates:** [Templates In Application HNDZIPNEMAILNET.APP](#)

**Description:**

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's HNDNETSMTP.DLL via HNDNetSMTPClass to provide a "Handy" utility that assists with sending zips via .NET based SMTP email.

The application can be pre-configured using up to 20 potential configurations to back up a

particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An SMTP configuration dialog lets you preconfigure up to three target SMTP servers to handle the sending of your email and zip attachment.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPEMAILSMTP.APP  
**Build:** ZipN Email (SMTP) [V10.17.12]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPEMAILSMTP.APP](#)  
**Templates:** [Templates In Application HNDZIPEMAILSMTP.APP](#)  
**Description:**

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's native Clarion SMTP Classes HNDsmtp to provide a "Handy" utility that assists with sending zips via pure Clarion-code SMTP email.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An SMTP configuration dialog lets you preconfigure up to three target SMTP servers to handle the sending of your email and zip attachment.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPEMAILSNAP.APP  
**Build:** ZipN Email (SNAP SMTP) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPEMAILSNAP.APP](#)  
**Templates:** [Templates In Application HNDZIPEMAILSNAP.APP](#)  
**Description:**

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's Snap-In SMTP executable CHTSNAPSMTP.EXE launched via CHT's Global and Local templates GlobalEmbedHNDsnapCallFunctions and ProcedureSnapIns respectively.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An SMTP configuration dialog lets you preconfigure up to three SMTP servers to handle the sending of your email and zip attachment.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPEMAILSNAPMAPI.APP  
**Build:** ZipN Email (SNAP MAPI) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST EMAIL CLIENT  
**Classes:** [Classes By Procedure In HNDZIPEMAILSNAPMAPI.APP](#)

**Templates:** [Templates In Application HNDZIPNET.APP](#)

**Description:**

This "CHT Utility Application" combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL via CHT Classes HNDNetZipperClass with CHT's Snap-In SMTP executable HNDMAILMAPI.EXE launched via CHT's Global and Local templates GlobalEmbedHNDSnapCallFunctions, ProcedureSnapIns and SnapMAPIStartButton respectively.

The application can be pre-configured using up to 20 potential configurations to back up a particular directory using a CHT Query that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

This application's email configuration button reminds only that MAPI email leverages the default email client to send mail, so it is only necessary that a working email client (e.g. Windows Live, Outlook) be present in order for email sending to operate correctly.

Once configured, your application can build a zip with one button click and send it to one or more recipients with a second click. Up to twenty separate, unique configurations are retained for instant re-use.

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**Name:** HNDZIPNET.APP

**Build:** ZIP Command Utility (NET) [V10.17.11]

**Date:** 12/13/2017

**Category:** TOOLKIT UTILITY

**Classes:** [Classes By Procedure In HNDZIPNET.APP](#)

**Templates:** [Templates In Application HNDZIPNET.APP](#)

**Description:**

This "CHT Batch Bot" application is a command-line zip tool which can zip files alone or in bulk using a DOS-style file mask (eg: \*.app) to describe the files to be zipped. The application can be called from one of your Clarion applications, a Windows batch file or a Windows .VBS script to provide reliable single and multi file zipping services.

HNDZIPNET.EXE source code, because it is in Clarion .APP format, is included as a standard part of the CHT toolkit, provided both in .APP format as well as ready-to-run, in .EXE format.

HNDZIPNET.EXE is dependent on one DLL being present and visible on the system path, namely: HNDNETZIPPER.DLL.

The application communicates to this DLL via COM requiring the HNDNETZIPPER.DLL to be registered on the host system. The DLL will auto-register on the host system when first called and found not to be registered. Auto-registration can only be performed from an "admin" account.

\*\* ZIPPING/UNZIPPING/LISTING \*\*\*

--zip

[REQ] Provides file name of the target zip file to be created.  
Note that the ESC key cancels zip operations in all cases.  
Use --path to name the source files location.

--unzip

[REQ] File name of the source zip file to be processed.  
Use --path to name the unzip location.

--list

[OPT] Lists the entire contents of the zip to a file called "hndzipnet.txt" and displays it in CHT Snap Edit.

--path

[OPT] Names the path where source files are located.  
Application path is used when this tag is omitted.

--subs

[OPT] --subs denotes include subdirectories

--win

[OPT] --win 1 denotes show progress window

--mask

[OPT] Standard dos-style file mask to describe files to be zipped,, for example \*.app

--qry

[OPT] CHT-Style file query to describe files to be zipped,  
for example: NAME ENDSWITH APP OR NAME \* .DCT

--noedit

[OPT] --noedit requires no parameter use this for "silent"  
running so that Snap Edit does not appear afterward

HELP:

--help

[OPT] Pops up this splash help screen.  
Creates a help file called "hndzipnet.txt"  
Displays "hndzipnet.txt" in CHT Snap Editor window.

LOGGING:

All successful transactions or errors are logged into "hndzipnet.txt" located in the same  
directory as the hndzipnet.exe.

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**Name:** HNDZIPNFTP.APP

**Build:** ZipN Post to FTP (Clarion) [V10.17.11]

**Date:** 12/13/2017

**Category:** ZIP-N-POST FTP CLIENT

**Classes:** [Classes By Procedure In HNDZIPNFTP.APP](#)

**Templates:** [Templates In Application HNDZIPNFTP.APP](#)

**Description:**

This "CHT Utility Application" combines zip file creation capabilities using CHT's HNDNETZIPPER.DLL plus HNDNETZIPPER source classes in combination with CHT's HNDNETFTP source classes to provide a "Handy" utility that assists with zipped backups and uploads to any standard FTP Server.

The application provides 20 unique pre-configurations each of which can back up a specified directory using a CHT file query that describes the files to be backed up. This results in a standard zip file for each configuration which can include source subdirectories right inside the zip.

An FTP setup dialog lets you configure a target FTP server with an optionally separate target web directory to accept your zip files.

Once configured, your application can build a backup with one button click and send it to an FTP server with a second click.

Up to 20 different backup configurations may be pre-created for immediate re-use and moving from one configuration to the other requires only one button click.

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**Name:** HNDZIPNFTPNET.APP

**Build:** ZipN Post to FTP (NET) [V10.17.11]

**Date:** 12/13/2017

**Category:** ZIP-N-POST FTP CLIENT

**Classes:** [Classes By Procedure In HNDZIPNFTPNET.APP](#)

**Templates:** [Templates In Application HNDZIPNFTPNET.APP](#)

**Description:**

This "CHT Utility Application" combines zip file creation capabilities using CHT's HNDNETZIPPER.DLL plus HNDNETZIPPER source classes in combination with HNDNETFTP.DLL and HNDNETFTP source classes to provide a "Handy" utility that assists with zipped backups and uploads to any standard FTP Server.

The application provides 20 unique pre-configurations each of which can back up a specified directory using a CHT file query that describes the files to be backed up. This results in a standard zip file for each configuration which can include source subdirectories right inside the zip.

An FTP setup dialog lets you configure a target FTP server with an optionally separate target web directory to accept your zip files.

Once configured, your application can build a backup with one button click and send it to an FTP server with a second click.

Up to 20 different backup configurations may be pre-created for immediate re-use and moving from one configuration to the other requires only one button click.

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**Name:** HNDZIPNPOSTTOCHTSERVER.APP  
**Build:** ZipN Post to CHT Server (DLL) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST HTTP XSA-CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNPOSTTOCHTSERVER.APP](#)  
**Templates:** [Templates In Application HNDZIPNPOSTTOCHTSERVER.APP](#)  
**Description:**

This "CHT Utility Application", combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL and HNDNETZIPPER source classes, along with CHT's wide-ranging HTTP powers to provide a "Handy" utility that assists with backups to any 2-Part CHT XSA File Server like HNDLFSVXSA.APP and others.

The application can be pre-configured to 20 different settings to back up a variety of directories using a CHT File Query that describes the files to be backed up. Each setting results in a standard zip file that can optionally include source subdirectories right inside the zip. Moving from one configuration to the next requires only one button click.

The HTTP configuration dialog also lets you preconfigure the target CHT file server designated to accept your zip file(s).

Note that as of May 2017 this application utilizes CHT-XSA authentication, so that you can authenticate against any CHT Server which has been provided with a CHT-XSA configuration dialog.

Once configured, your application can build a backup with one button click and PUT it to a CHT-Style secure XSA web server with a second click.

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**Name:** HNDZIPNPOSTTOCHTSERVEROCX.APP  
**Build:** ZipN Post to CHT Server (OCX) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST HTTP XSA-CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNPOSTTOCHTSERVEROCX.APP](#)  
**Templates:** [Templates In Application HNDZIPNPOSTTOCHTSERVEROCX.APP](#)  
**Description:**

This "CHT Utility Application", combines CHT's zip file creation capabilities with CHT's wide-ranging HTTP powers to provide a "Handy" utility that assists with backups to a CHT File Server like HNDFILSV.APP and HNDMLV.APP.

The application can be pre-configured to back up a particular directory using a file mask that describes the files to be backed up, resulting in a standard zip file that can include source subdirectories right inside the zip.

An HTTP configuration dialog lets you preconfigure a target CHT file server to accept your zip file(s).

Once configured, your application can build a backup with one button click and PUT it to a web server with a second click.

Up to 20 different backup configurations may be pre-created and moving from one to the other requires only one button click.

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**Name:** HNDZIPNPOSTTOCHTSETUP.APP  
**Build:** ZipN Post To CHT Setup (DLL) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST HTTP XSA-CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNPOSTTOCHTSETUP.APP](#)  
**Templates:** [Templates In Application HNDZIPNPOSTTOCHTSETUP.APP](#)  
**Description:**

This "CHT Utility Application", combines CHT's zip file creation capabilities using

HNDNETZIPPER.DLL and HNDNETZIPPER source classes, along with CHT's wide-ranging HTTP powers to provide a "Handy" utility that assists with backups to any 2-Part CHT XSA File Server like HNDSLFSVXSA.APP and others.

The application can be pre-configured to 20 different settings to back up a variety of directories using a CHT File Query that describes the files to be backed up. Each setting results in a standard zip file that can optionally include source subdirectories right inside the zip. Moving from one configuration to the next requires only one button click.

The HTTP configuration dialog also lets you preconfigure the target CHT file server designated to accept your zip file(s).

Note that as of May 2017 this application utilizes CHT-XSA authentication, so that you can authenticate against any CHT Server which has been provided with a CHT-XSA configuration dialog.

Once configured, your application can build a backup with one button click and PUT it to a CHT-Style secure XSA web server with a second click.

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**Name:** HNDZIPNPOSTTOCHTXSA.APP  
**Build:** ZipN Post to XSA Server (DLL) [V10.17.11]  
**Date:** 12/13/2017  
**Category:** ZIP-N-POST HTTP XSA-CLIENT  
**Classes:** [Classes By Procedure In HNDZIPNPOSTTOCHTXSA.APP](#)  
**Templates:** [Templates In Application HNDZIPNPOSTTOCHTXSA.APP](#)  
**Description:**

This "CHT Utility Application", combines CHT's zip file creation capabilities using HNDNETZIPPER.DLL and HNDNETZIPPER source classes, along with CHT's wide-ranging HTTP powers to provide a "Handy" utility that assists with backups to any 2-Part CHT XSA File Server like HNDSLFSVXSA.APP and others.

The application can be pre-configured to 20 different settings to back up a variety of directories using a CHT File Query that describes the files to be backed up. Each setting results in a standard zip file that can optionally include source subdirectories right inside the zip. Moving from one configuration to the next requires only one button click.

The HTTP configuration dialog also lets you preconfigure the target CHT file server designated to accept your zip file(s).

Note that as of May 2017 this application utilizes CHT-XSA authentication, so that you can authenticate against any CHT Server which has been provided with a CHT-XSA configuration dialog.

Once configured, your application can build a backup with one button click and PUT it to a CHT-Style secure XSA web server with a second click.

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**Name:** HNDZTEST.APP  
**Build:** File And Memory Compression Demo [V10.17.11.0174]  
**Date:** 12/13/2017  
**Category:** File And Memory Compression  
**Classes:** [Classes By Procedure In HNDZTEST.APP](#)  
**Templates:** [Templates In Application HNDZTEST.APP](#)  
**Description:**

LOW-LEVEL FILE AND MEMORY COMPRESSION EXAMPLES

This application demonstrates the low-level file reading, writing capabilities of the HNDDosFile class.

- \* Class attached to procedure using EmbedObject template.
- \* Read a file into a CSTRING memory buffer as is or compressed in a single pass.
- \* Write a compressed CSTRING memory buffer to a file as is (still compressed) or uncompressed.
- \* Compress a CSTRING memory buffer in-memory.
- \* Uncompress a CSTRING memory buffer in-memory.
- \* Compression capabilities of this class come from it's parent class HNDsqueeze.
- \* File reading-writing capabilities come from Clarion's DOS file driver.
- \* More...

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