

# **CatCIS**

## **User's Guide**

**Copyright 1992 - 1994 by Joseph A. Higgs**

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### **DISCLAIMER OF WARRANTY**

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## **INTRODUCTION**

CatCIS(TM) is a Windows program to be used with TAPCIS(TM) or GoCIS catalog files which contain Data Library Catalogs from CompuServe's forums. It provides a convenient way to maintain catalog files and write download scripts for TAPCIS or GoCIS. CatCIS includes the following features:

- Flexible search capability
- Clipboard support
- Mark items for deletion, download, or both
- Automatically mark duplicate entries for deletion
- Sort catalogs by date, filename, or library
- Support for the Microsoft Software Library forum
- Append catalogs
- Supports both long and short descriptions
- Convenient cross support between TapCIS and GoCIS

Please send me any comments or suggestions!

## **Files Included**

Included in the CCISST.EXE file are:

BWCC.DLL	Borland's custom control DLL.
CATCIS.EXE	The application executable
CATCIS.HLP	The application help file
CATCIS.ICO	Icon for CatCIS
CATCIS.WRI	This documentation file.
MSLCAT.SCR	A TAPCIS script file for downloading the Microsoft Software Library catalog descriptions
MSLLBR.SCR	A GoCIS script file for downloading the Microsoft Software Library catalog descriptions
REGISTER.WRI	Registration form
WHATSOEVER.WRI	Describes the new features for this version of CatCIS
GoCIS.TXT	Describes requirements for GoCIS use

CCISST.EXE is a self extracting archive. Create a directory, put CCISST.EXE in it, and then run it. The files will be extracted into that directory. Then follow the installation instructions..



## **Shareware**

CatCIS is not public domain or free software, but is being distributed as "shareware".

Shareware distribution gives users a chance to try software before buying it. If you try a Shareware program and continue to use it, you are expected to register. Individual programs differ on details -- some request registration while others require it, some specify a maximum trial period. With registration, you get anything from the simple right to continue using the software to an updated program with printed manual.

Copyright laws apply to both Shareware and commercial software, and the copyright holder retains all rights, with a few specific exceptions as stated below. Shareware authors are accomplished programmers, just like commercial authors, and the programs are of comparable quality. (In both cases, there are good programs and bad ones!) The main difference is in the method of distribution. The author specifically grants the right to copy and distribute the software, either to all and sundry or to a specific group. For example, some authors require written permission before a commercial disk vendor may copy their Shareware.

Shareware is a distribution method, not a type of software. You should find software that suits your needs and pocketbook, whether it's commercial or Shareware. The Shareware system makes fitting your needs easier, because you can try before you buy. And because the overhead is low, prices are low also. Shareware has the ultimate money-back guarantee -- if you don't use the product, you don't pay for it.

## **Registration**

CatCIS is a Shareware program. You now have the program and a chance to try it for free. If you like CatCIS, you pay a \$25 licensing fee for the rights to continue using it. The license fee is a one-time \$25 fee which gives you the right to use all future shareware versions of CatCIS.

When the licensing fee is received, I will enter you into the CatCIS user register, and notify you via CompuServe when new versions are released.

You may give away copies of CCISxx.EXE to your friends if you like. If you de-archive CCISxx.EXE for them, be certain to include this documentation.

The file REGISTER.WRI provides an order form that can be printed from Write. If you like CatCIS please fill out a registration form, and send it and your check to:

Joseph A. Higgs  
1410 Misty Bend Dr.  
Katy, Texas 77494

You may also register on CompuServe by typing GO SWREG at any prompt and registering ID # 1856.

If you have any enhancements, problems, suggestions, comments, or complaints about the program or documentation, please write to me via EasyPlex, a message in the BCPPWIN or TAPCIS forum, or a letter to the above address. My CIS ID is 72165,73.



## **License Agreement**

Non-registered users of this software are granted a 21 day limited license to make an evaluation copy for trial use for the express purpose of determining whether CatCIS is suitable for their needs. At the end of this 21 day trial period, you should either register your copy or discontinue using CatCIS.

By registering this software, you will ensure continued support and updates of this product.

A single CatCIS license entitles you to use the program on one CPU. You may make as many copies as you wish, but only one CPU may be actively running this program at one time. If other people need to use it, then you should purchase a site license.

## **Installation**

### **CCISST.EXE**

1. Run the file in a directory of your choice. This will extract the files to the same directory.
2. Move BWCC.DLL to your x:\windows\system directory, where 'x' is the correct drive for your system. If you already have this DLL available somewhere in your PATH, this is not necessary, and you may delete BWCC.DLL after verifying that this version is not newer than the one you have.
3. Run by double clicking the CATCIS.EXE file in file manager, or add it to a program manager group of your choosing, or set up an association in File Manager for files with a .cat or .lbr extension.

## **Data Protection**

Several steps have been taken to guard your data. When you save a catalog file, a backup is automatically provided with the extension of .~at or .~br. The new file is actually written as a temporary file. Should anything prevent the write from completing, the backup is restored for you, unless the system shuts down. In that case, the backup is available for renaming.

If you have set the attribute for either the catalog file or its backup to read only, CatCIS will not allow you to overwrite the catalog file. You may, however, use 'File|Save as' to save the file under a different name. If a file exists under the new name during a 'File|Save as', a backup of the existing file will be created, under the same attribute rules above.

When catalog items are marked for download, you may select the option to write a download script. Again, each additional request to write to the .dow file results in a backup copy of the existing file, if there is one. Should a problem occur, the previous .dow file is recovered for you. The extension for .dow file backups is .~ow.

## Operation

CatCIS is very simple to operate, with the following main menu items:

### **File**

#### **Open**

This menu selection presents a dialog box to open a catalog file. The initial directory setting comes from the directory setting you enter via the Configure|Directories dialog box. If you already have a catalog open, the Append option is available to append a catalog to the one currently in memory.

You may have CatCIS open this dialog automatically on startup using the Configure|Preferences menu selection.

#### **Save**

This menu selection saves the file being viewed to disk, deleting any catalog items marked for deletion.

A backup of the original file is saved with an extension of .~?? in the directory from which the original file was read, unless the Configuration Option Retain Backups is not selected. The '??' are the last 2 characters of the original extension.

#### **Save As**

This menu selection displays a dialog box requesting file name information for the new file to which the current catalog will be saved.

If successful, the file will be saved under the new name and the display updated to reflect the new filename.

If there is already a file of the same name in the new location during a Saveas, a backup file will be created with an extension of .~??, unless the Configuration Option Retain Backups is not selected, where '??' are the last 2 characters of the existing file.

#### **Write D/L**

This menu selection is only available when catalog items have been selected for download. Selecting it causes the Download File Selections dialog to be displayed.

Shortcut is Alt-W.

#### **DL Script**

Contains a text field with the path and filename of the script file to be used.

#### **List Boxes**

Files may be moved to the Reject list box to preclude them from being included in the download script. The script file will be written to the appropriate directory specified in Configure|Directories based on the product preference chosen in the Configure|Preferences dialog. The created file has the same file name as the catalog file and an extension of '.dow' for all forums except MSL, in which case the extension is '.scr'. Any files moved to the Reject list box will retain their marked

## **CatCIS User's Guide Version 1.5A**

status after the download script has been written.

If a download file of the same name already exists in that directory, a backup file will be created with the same file name, unless the Configure|Preferences Retain Backups option is not selected, and an extension of .~ow or .~cr as appropriate. The newly marked download requests will be appended to the existing set of requests in the new .dow file.

### **Calculated Info Box**

Based on information you provided in the Configure|Preferences dialog, the estimated time and cost of the download are displayed.

### **DL Script Type**

The drop down list box of the Download File Selections dialog has selections for writing GoCIS or TapCIS scripts.

### **MSL Options:**

If you are viewing a catalog created by capturing the library list of the MSL forum, choose one of the MSL options from the DL Script Type list box. This script file will be placed in the Section files directory for TapCIS or the Scripts directory for GoCIS.

Note: The MSL Format options allow appending different requests to the file, but no checking is done on what is already in the script file. Alternatively, you may select to overwrite the existing script file.

### **Write Update File**

Selecting this menu item displays a dialog box to define the parameters for generating a script that will update the current catalog.

Shortcut is Alt-U.

### **Update Script**

Contains a text field with the path and filename of the script file to be used or created.

### **Select Libraries to Update**

Contains a checklist box for selecting which libraries will be updated. Each line has a checkbox indicating if the library will be updated, the library name, the file pattern to use (or the word 'Custom' if the file pattern or keywords have been changed), and the number of days for the update.

The check box may be toggled with the mouse or space bar. This is a multiple selection box, so the control and shift keys are used to select more than one library. It is not necessary to use either when the space bar is used for selection.

### **Edit Button**

To edit a particular line, either double click it, or choose the Edit button while that line has the focus in the checklist box. To maintain selected libraries when using the mouse, hold down the control key. The Update Detail dialog box will be displayed.

### **Description Type**

This set of radio buttons indicates whether the item with the focus in the checklist box will be

## **CatCIS User's Guide Version 1.5A**

updated with short or long descriptions. The radio buttons are for information only, and the selection may be changed by using the edit button.

### **Update Script Type**

This drop down list box has selections for writing GoCIS or TapCIS scripts.

### **MSL Options:**

If you are viewing a catalog created by capturing the library list of the MSL forum, choose one of the MSL options from the Update Script Type list box. This script file will be placed in the Section files directory for TapCIS or the Scripts directory for GoCIS.

Note: The MSL Format options allow appending different requests to the file, but no checking is done on what is already in the script file. Alternatively, you may select to overwrite the existing script file.

The created file has the same file name as the catalog file and an extension of '.dow' for all forums except MSL, in which case the extension is '.scr'.

If a download file of the same name already exists in that directory, a backup file will be created with the same file name, unless the Configure|Preferences Retain Backups option is not selected, and an extension of '~ow'. The newly selected criterion for updating the catalog will be appended to the existing set of requests in the .dow file.

### **File List**

Initially, this area of the menu contains the inactive selection 'File List'. After viewing catalog files, a Most Recently Used file list is built, and quick access to the last few files you viewed is enabled.

### **Exit**

This menu selection closes CatCIS after checking to determine that no pending marked actions are required.

### **Edit**

#### **Copy**

This menu selection copies the currently displayed catalog object to the Windows clipboard.

Shortcuts are Ctrl-C or Ctrl-Insert.

### **Search**

#### **Find**

The Find menu selection will display a dialog box to get the required search information from you. These items are:

#### **Find What:**

Enter the text you want to find in this edit box.

#### **Search What:**

Check the boxes of the items you want searched for the search text. Any or all may be selected.

**CatCIS User's Guide**  
**Version 1.5A**

Each catalog object contains the following items that may be searched:

CompuServe Information System Identification line. Checking this box causes a search of the first catalog object line, including the CIS ID and the library number, if available. For short description objects, this is the only available field.

File Line. Checking this box causes a search of the second catalog object line, including the file name, byte count, download count, and original upload date, last upload date, and last download date.

Title Line. Checking this box causes a search of the uploader's title description.

Keywords. Checking this box causes a search of the uploader's keywords.

Description. Checking this box causes a search of the description of the catalog object.

**Direction:**

Select the appropriate radio button to search Up, which will search catalog objects prior to the one on display; or Down, which will search catalog objects after the one on display.

**Match Case:**

Check this check box to limit the search to matching the text you entered exactly. Uncheck it to search for the text irrespective of case.

**Highlight Hits:**

Check this check box to cause visual highlighting of any matches found in a catalog object.

**Save Default.**

This button will write the current state of the Find dialog box to the CatCIS.INI file. This will maintain your selections from session to session with CatCIS. CatCIS will keep your Find dialog box selections throughout the current session when you do not use the Save Defaults button, but those selections will be lost the next time you run CatCIS, or if you run a second instance of the program.

**Search.**

This button closes the dialog and begins searching the catalog objects for your search text.

**Cancel.**

This button will cancel the search, and will cause any changes you made to the dialog to be lost.

**Search again**

The Search again menu selection will use the search criterion from the Find dialog box to search for the next occurrence of the target text.

The shortcut for this action is F3.

**Mark**

**Download**

The Download menu selection will mark the catalog item for download. Once marked, a

## **CatCIS User's Guide**

### **Version 1.5A**

download script file can be written.

Shortcuts are the Insert key or Alt-D.

#### **Delete**

The Delete menu selection will mark the catalog item for deletion. Catalog items marked for deletion will not be written to the file when the catalog file is rewritten to disk via File|Save or File|Save As.

Shortcuts are the Delete key, Ctl-X, or Alt-L.

#### **Duplicates**

This menu selection will mark duplicate catalog entries for deletion. This menu selection is only available if there are no entries already marked for deletion.

If the Configure|Preferences Relax Duplicates option is not checked, catalog entries are first sorted by filename, CIS Id, and the last download date. Entries are checked for duplication based on the filename and CIS Id being equal. Long descriptions are tested against long descriptions, and shorts against shorts.

If Relax Duplicates is checked, the CIS Id is ignored, allowing duplicate long and short descriptions in the same catalog to be removed irrespective of description type.

The entry with the latest download date is retained. If all criterion are equal, the final determining factor is the session number; the entry with the larger session number is kept.

This algorithm assumes that there are no duplicate filenames in a given session. If there are, the last entry found in that session after the sort is kept and all others are marked for deletion.

The jump keys '<<' and '>>' will take you to the next filename for easy checking that the correct entries are marked for deletion.

#### **Custom**

This menu selection will display a dialog box for defining the criterion for marking catalog items for deletion or download.

CatCIS will search the entire catalog and mark items appropriately.

### **View**

#### **Sort**

The Sort menu selection displays a submenu allowing selection of different sorts on the library catalog.

#### **Standard**

This is the original sort order from reading the file.

#### **Date**

This selection reorders the display in descending order based on the last download date. The secondary sort order is ascending filename order.

**CatCIS User's Guide**  
**Version 1.5A**

**Filename**

This selection reorders the display in ascending filename order. The secondary sort order is descending last download date.

**Library**

This selection reorders the display in ascending library number order. The secondary sort order is descending last download date. The tertiary sort order is ascending filename.

**Configure**

**Directories**

The Directories menu selection displays a dialog box for setting the directories for TapCIS and GoCIS.

**TapCIS**

Catalog files are generally kept in the STORE subdirectory of your TAPCIS directory, so your entry might look like this:

c:\tapcis\store

## **CatCIS User's Guide**

### **Version 1.5A**

Section files are generally kept in the TAPCIS directory, so your entry might look like this:

c:\tapcis

#### **GoCIS**

The Control directory is generally a subdirectory of your GoCIS directory, so your entry might look like this:

c:\GoCIS\control

The Scripts directory is generally a subdirectory of your GoCIS directory, so your entry might look like this:

c:\GoCIS\scripts

CatCIS will verify that the directories exist prior to closing. If only one set of directories is entered, CatCIS will duplicate those entries for the other product.

### **Preferences**

The Preferences menu selection displays a dialog box for setting the additional configuration items.

#### **Default Catalog Type:**

CatCIS can handle the catalog formats of TAPCIS and GoCIS. Select the appropriate one for your catalogs. This selection determines what initial directories will be used, the default file extension in the File Dialogs, and the default Script Type in the Download File Selections and Write Update Script dialogs.

If you have a file created by capturing the descriptions to a file, or you have downloaded one of the catalog files maintained by the sysops, it is best to rename the file with an extension of .cat. Either the TapCIS or the GoCIS default catalog type may be selected.

#### **Download Information:**

The Download Information section allows customization of the parameters used to determine the time and cost of downloading selected files. Estimate Char/Sec based on download performance on your system; you can get information on rates from CompuServe by using GO RATES.

#### **Options:**

##### **Retain Backups:**

CatCIS creates backup files while executing any file write activities. These files will be in the same directory as the original and have the same file name. The extension of backup files substitutes the tilde (~) for the first character of the extension. Unchecking the Retain Backups checkbox will cause all \*.~?? files created by CatCIS to be deleted upon successful completion of file activities.

##### **View Next on Mark:**

Check the View Next On Mark checkbox to automatically skip to the next item after clicking on the

**CatCIS User's Guide**  
**Version 1.5A**

delete action bar button.

## **CatCIS User's Guide**

### **Version 1.5A**

#### **Relax Duplicates:**

Check this option to allow comparison between short and long descriptions in a given catalog when using the Mark|Duplicates menu item. The difference is that with this option selected, the check for duplicates will ignore the CIS ID of the uploader.

Long descriptions will be retained in cases where entries with the same filename exist with both long and short descriptions.

The risk in using this option is that the uploader's ID is not used in the comparison, so two files of the same name, uploaded by different people, will cause the loss of one.

#### **Startup File Open Dlg:**

Checking this option will cause CatCIS to automatically display the File Open Dialog upon startup.

## **Help**

### **Index**

This selection displays a list of items from which to select for further help information.

### **Keyboard**

This selection displays a list of keyboard shortcuts for common actions in CatCIS.

### **Commands**

This selection displays a list of the available commands from which to select for further help information.

### **Procedures**

This selection displays additional help for some of the procedures in CatCIS.

### **About**

The About menu selection displays the application's About box.

That's really all there is to it! Enjoy, and provide me with any feedback you feel appropriate. If the demand is there, I would like to continue to expand the program to provide a few more features. Let me hear from you!

## **Technical Specifications**

### **Operating System**

Requires Microsoft Windows 3.x.

### **Capacity**

32,000 catalog descriptions, depending on available system resources. The average catalog item is about 315 characters, so this could represent 9 Mb of data.

### **File Compatibility**

CatCIS is compatible with TAPCIS '.CAT' files, GoCIS '.LBR' files, or any text file in the format of a CompuServe library listing. Extension to other file types is certainly possible, and your suggestions are welcome.

### **Limitations**

Fewer with every release. Let me know what you need!!!

## **Credits**

CatCIS was coded in Borland's C++, Version 4.0, with Application Frameworks. A sincere word of thanks to Borland for providing some excellent tools.

Thanks to everyone who responded with suggestions for improvements and for your support!

## **What's New**

### Version 1.5A(2/19/94)

- Corrected GPF when file is not a catalog, file contains no catalog entries, or catalog read canceled by user.
- Fixed cursor movement in the Configure|Preferences dialog.

### Version 1.5(1/14/94)

- Added Mark|Custom for mass marking based on selected criterion.
- CatCIS now maintains window state info so it will open maximized if you exit that way.
- Adjusted Configure|Directories so only one set of directories must be entered. The other set will be made to mimic the entered set if not entered.
- Added append or overwrite option for MSL scripts.
- Fixed problem with reading mixed short and long descriptions in GoCIS catalogs. CatCIS now reads the TapCIS and GoCIS catalogs with different logic.
- Added 'bookmark'. Next time you open a catalog, you will be placed at the last catalog object at which you were viewing, unless you have updated the catalog, in which case you will be placed at the first new catalog entry.
- Added optional feature to automatically open the file open dialog when CatCIS first starts and there is no command line parameter.
- Added a relaxed duplicates option to Configure|Preferences. This allows comparison between short and long descriptions by not using the CIS ID of the uploader. In cases where there is both a short and a long description for a given filename, the long description will be retained. The risk in using this option is that the uploader's ID is not used in the comparison. If two files of the same name happen to exist, uploaded by different people, you will lose one of them.
- Changed sorts to use last download date as it is more reflective of the entry's age.
- Change to insure there is a last download date. If one not available from the catalog, use last update.
- Adjusted mark duplicates to better handle CIS ID.
- Change to use Julian dates so update routines could calculate number of days.
- Fixed error on next session when sorted by dates.
- Corrected problem with View Next on Mark preference choice sometimes not clearing the old description from the screen properly.
- Corrected problem that could cause GP fault on append if there are a multiple of 50 catalog

**CatCIS User's Guide**  
**Version 1.5A**

objects in the current file.

- Fixed Append so that if no catalog items were found in the append, the query for write dialog will not appear.
- Changed Count/MaxCount fields in the status bar to handle 5 digits
- Update Catalog feature added. Allows update by library based on the latest item in the library, rather than by catalog's latest file date. Provides a mechanism for marking libraries as active/inactive, file mask, keywords, and user may change the number of days for the update.

## CatCIS User's Guide Version 1.5A

### Version 1.4(11/22/93)

- Flagged parsing so once the catalog has been parsed, that dialog will no longer pop up.
- Added Mark|Duplicates menu item. This will mark duplicate entries for deletion, retaining only the most recent entry.
- Enabled jump buttons '<<' and '>>' under different sort options. These buttons take you to the next session under the Standard sort; next date item under the Date sort; next filename under the Filename sort; and next library under the Library sort.
- Fixed library sort order to sort by library correctly.
- When you mark an item for delete, CatCIS now moves to the next item immediately so you don't have to then page down.
- Fixed problem with occasional duplication of last catalog item. This also caused opening the catalog to position you to the last item rather than the last session.
- Track file writes better to avoid spurious dialogs about the need to write the file
- Pop a dialog if quit after append to see if write is desired
- Fixed append so it creates a new session for the appended information and counts things correctly
- Fixed loss of library names when appending
- Renamed Options menu item to Configure. Split Configure into Directories and Preferences.
- Directories allows specification of necessary directory information for TapCIS and WinCIS. This will make writing download scripts for one product from the other product's catalogs easier.
- Preferences contains info on which is the preferred product (TapCIS or WinCIS), download charge information, and backup retention. Based on the preferred product, CatCIS will make the appropriate directory current and set the default file type (\*.cat or \*.lbr) on startup.
- Added a check when CatCIS starts up for version information. If the catcis.ini still contains old version information, a message box is displayed to insure users know to check the Configure information.
- Added a drop down list box to the Write Download dialog to allow writing the necessary script file in any of the possible formats. This made it necessary to expand the path requests in the Configure|Directories dialog.
- Added the MSLLBR.SCR file for creating the MSL.LBR catalog from the Microsoft Software Library.
- Added options for creating download scripts for WinCIS to retrieve files from the Microsoft Software Library.

**CatCIS User's Guide**  
**Version 1.5A**

Version 1.3B (10/21/93)

-- Fixed error in sorting routine that caused a stack overflow.

## CatCIS User's Guide Version 1.5A

### Version 1.3A (10/01/93)

- Fixed error in writing download scripts for multiple file downloads.
- Fixed the navigation button response. Double-clicks would cause strange moves.
- Added functionality to File|Open for appending files. If a file is open, an Append check box is enabled. If selected, the open file is returned to the standart sort and the new file appended to it.
- Fixed the extension on File|SaveAs so it is .LBR when WinCIS is selected in the Options|Configuration.

### Version 1.3 (9/12/93)

- Adjusted file read for somewhat quicker and smoother reading
- Fixed an error that could cause the last catalog item to be ignored under certain circumstances
- Changed Options dialog to handle WinCIS and added a help button for description of required items.
- WinCIS support requires a change to the WINCIS.TPL file. In the [GO FORUM] section, add the following at the end, prior to the [GO LIB] section:

```
; *** Added to accomodate CatCIS download scripts***
%IF FILEEXISTS &&CONTROLPATH&&FORUMNAME.DOW
%%ECHO Executing &&FORUMNAME.DOW
%%DO &&CONTROLPATH&&FORUMNAME.DOW
%%@Unable to execute &&CONTROLPATH&&FORUMNAME.DOW
%%KILLFILE &&CONTROLPATH&&FORUMNAME.DOW
%%SEND ^M
%%WAIT FORUM !
%Echo CatCIS download check complete
;
```

[GO LIB]

- Rewrote the Help file to cover WinCIS requirements.
- Adjusted File|Open such that the current open file is highlighted in the file list. If you are going through your files, this makes it easier to locate the next one.
- Added real bitmapped buttons for most of the action bar.
- Added File|Open, clipboard, and search buttons to the action bar.
- Added limited support for MSL lbrary. Limited in that multiple writes to the download script will only capture the latest mark set (the .scr file is overwritten each time you write the script). .scr files go in the TapCIS directory (\*.SEC directory). Download files will go to the download

**CatCIS User's Guide**  
**Version 1.5A**

directory specified in the PARAMS.CIS file, if available, otherwise to the TapCIS directory.

- Added View main menu item. This has a View|Sort selection, which includes Standard, Date, Filename, and Library sorts.

## **CatCIS User's Guide**

### **Version 1.5A**

#### Version 1.2 (7/8/93)

- Removed help file information from the configuration dialog box. CatCIS now expects its help file to be in the same directory from which it executes. Old CatCIS.INI files may retain the help file line, but it is not used by the program.
- Includes new BWCC.DLL, version 1.03, date 3/9/93.
- Adjusted search dialog to use transfer buffers.
- Removed action bar option from the configuration dialog box. Action bar is no longer an optional feature.
- Added download info section to the configuration dialog box.
- Added a select/reject dialog as part of the write download script procedure. Shows list of downloads, estimated time, and cost, and total. Allows selective unMark from list to control charges.
- Added session jump keys (sh-pgup and sh-pgdn) and buttons.
- Changed error message boxes to have message number in the title instead of the message text.
- Added Edit|Copy functionality.
- Updated the help file.

#### Version 1.1a (4/18/93)

- Added Retain Backups checkbox to Options. When unchecked, those little \*.~at files go away.
- Reduce sensitivity to garbage. If more than 10 characters per read buffer are garbage, or a single catalog entry exceeds 1000 characters, dialog shows up, but only if you select to Save, Save As, or have marked items deleted such that a save will occur.
- Changed all navigation keys to messages for better toolbar access
- Added buttons for page down, up, top, and bottom.
- Added color to Download and Delete buttons for better visibility. These use the colors defined in the CatCIS.INI file.

**CatCIS User's Guide**  
**Version 1.5A**

Version 1.1 (3/13/93)

- Change navigation to use PostMessage as this should prevent reentrancy problems
- Adjust .DEF file to better use dynamic load
- Adjust compile directives to put related .cpp in same segment
- Added char by char check for invalid chars. Hurts performance by about 1 sec, but helps for transmission garbage.
- Added test for object size, limit is 1000 chars. Also to help identify transmission garbage.
- Added bGarbage to let folks know that if they save the memory image they are losing garbage info.
- Action bar for Delete, Download, Write D/L file

Version 1.0 (1/16/93)

- Corrected display of Section File Missing so it displays when the section file is missing (makes sense).
- Dropped the help button from the file dialogs.
- Installed command line processing. Associations from File Manager will now work correctly.
- Added cancel option during time consuming operations.
- Made status bar smart to not set text if same text. Improves overall performance by reducing screen paints. Also reduces flicker.
- Reduced program rudeness. If it does not have the focus when a message occurs, it will beep, but wait until it has the focus to display the message. Before, it would jump to the front.
- Made wait dialogs take strings for progress reports.
- Only 1 write per DL item.
- Only 1 write per catobj.
- Improved error processing, handling, and recovery.
- Improved catalog read speed by 30-50% (your mileage may vary).
- Changed configuration to request storage path and tapcis path, along with location of help file.
- Improved response to system shutdown when actions are pending.

## **CatCIS User's Guide**

### **Version 1.5A**

- Reworked string resource, using message numbers on most messages, reduced size.
- Change - Download - text on marked items to gray text if .dow file written and cat still displayed, disabled Mark Download in that case as well. This precludes multiple requests to download the same item.
- Improved error response and recovery from no disk space problem.
- Complete rewrite of .cat file writing procedures to improve error reporting and recovery, especially across devices.
- Complete rewrite of .dow file creation, including better error reporting and recovery, writing each .dow episode to temp file and appending to existing .dow if there, or creating one if it's not.
- No overwrite of read only cat file. You may Save as to another file. Also added checks for read only backup files.
- Added colors to .ini for customization.
- Developed Help.

#### 12/25/92 build version

- Added search functionality. Allows searching any or all of the CIS ID line, File line, Title line, Keywords, and description text; direction of search specification; text case matching; optional hit highlighting; and saving of dialog selections between sessions.
- Added a check mark to Mark menu item if catalog item is marked in any way.
- Disabled Write D/L menu selection if none marked.
- After Options|Configuration close, write CatCIS.INI immediately, rather than waiting until application close.
- No longer count sessions in which there are no catalog entries. You may notice fewer sessions as a result.
- Keep track of download and delete marking for faster determination that something is marked.
- Got rid of pesky message that .sec file was not found. This will now be displayed in the status bar, Library: box.

#### 12/06/92 build version

- Major programming error located by Guenter Herbig [100021,3621] corrected. Thanks Guenter! This error manifested itself by causing a system lockup due to overzealous calls for a device context, a limited resource.
- Improved status bar performance and reduced its predeliction for jumping up and down when using the top of the window for a resize.

**CatCIS User's Guide**  
**Version 1.5A**

-- Fixed a small memory leak in status bar. You really can't delete a pen until it is selected out of the device context!

-- Removed code to delete class icon. This caused no harm, but should not have been there. Incidentally, any artistic folks who have an idea for a better icon are certainly welcome to go for it!

12/01/92 build version

Actually, everything, as this is the first release.