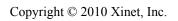
Xinet Asset Management: Your Work. Your Work.





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5

Introduction

Contents of this Guide

In this *Xinet Guide to Development APIs*, Xinet collected the various resources which are available for custom programming of FullPress* and the WebNative* family of software products.

As Xinet products are engineered to make development and customization as easy as possible, the software contains a built-in set of tools which allow programmers to extend the products' functionality to suit the special needs of individual sites or integrate Xinet products within other proprietary systems.

The Xinet Guide to Development APIs includes information about the following resources:

- FullPress file format
- FullPress file system access via the Xinet ks-utilities
- Customizing the FullPress GUI
- WebNative customization options
 - Basket plug-ins (CGIs)
 - Button APIs
 - Styles interface customizations
 - Uploader customization
- WebNative Portal APIs

Though this guide is quite useful on its own, Xinet also recommends that developers briefly review the features available in each product and its accompanying *Administration Guide* to gain familiarity with the software's functionality.

Other reference sources

Each Xinet Administration Guide explains the products' functionality and configuration in great detail. The FullPress Administration Guide and the WebNative and WebNative Venture Administration Guide provide details about administrative settings and how to use them effectively.

Sites experimenting with the "look and feel" of the Xinet web interfaces will find instructions in Chapter 5 in the WebNative and WebNative Venture Administration Guide, which discusses

1

ways to uniquely change how WebNative displays information in web-browsers via HTML and Javascript programming. WebNative Portal provides even more opportunities for customizing product functionality and the user experience, as its PHP infrastructure offers programmers a much faster development and integration path. In the *WebNative Portal Administration Guide*, current features are explained as well as tools which can be used to extend the data-display options within templates.

To help developers and programmers understand the core functionality of Xinet products, Xinet offers regularly-scheduled training classes in product administration at basic and advanced levels. Xinet also offers custom programming seminars for WebNative *Styles* interfaces as well as instruction in template creation and adding scripting to WebNative Portal. For more information on course content and scheduling, please refer to the *Training a*rea of the Xinet web site, *www.xinet.com*.

The Xinet Developer Program

While all Xinet customers have access to product development tools as part of their standard software licenses, if customers do not wish to use their production server as a testing and development platform, Xinet offers non-production *Software Development Kit* licenses to members of its Developer Program.

The Xinet Developer Program is designed to assist the following people:

- Customers who are designing and testing interfaces, plug-ins, or other in-house programming customizations and wish to do this on a separate machine rather than on their main "live" Xinet production server.
- Software developers and consultants who are writing plug-ins or other application tools which will interoperate with Xinet servers.
- Vendors and manufacturers who wish to use Xinet software for integration or testing with their own products and solutions.

For more details about the Xinet Developer Program, please refer to the Xinet Web site, www.xinet.com. You'll find an on-line application to join the program, as well as a description of our Software Development Kit license and other membership benefits.

Conventions used in this manual

We use several typographical conventions in this manual to help readers distinguish what must be typed as is and what is simply a parameter to be substituted. In particular, readers should type text set in a typewriter-like font, like this, *literally*. For example:

```
# more README or c:\> type README
```

Readers should enter this command exactly as shown above (minus the shell prompt on systems, #, or the c:\> prompt on Windows systems). Readers should substitute their own applicable text for text set in slanted typewriter type, like this. For example, when one sees

```
% ls directory_name or c:\> dir directory_name
```

one might type:

% ls doc or c:\> dir doc

On UNIX systems

The two examples given above illustrate another convention: when a command must be issued by the superuser (root), you will see the prompt #; when a command may be issued by a normal user, you will see the prompt %. As in most documentation for UNIX software, text references to UNIX functions have the form more(1). The word in italic type is the name of the function; the parenthesized number is the section of the UNIX Programmer's Manual containing the function's manual page.

On Windows systems

When the manual discusses locations for files and programs, it uses default installation pathnames. If you install files and programs in other locations, the pathnames will not be the same as in this manual.

Where to look for technical information

Xinet technical information spans several volumes, with each software distribution having an appropriate guide. The guides are available for downloading in the *Maintenance* section of the Xinet Web site, *www.xinet.com*. The Web site also provides links for ordering printed copies.

To help you easily find what you need, the guides are extensively indexed and cross-referenced, and whenever possible, the index entries and cross references provide live links to the appropriate pages within the PDF.

Xinet technical documentation includes:

• The WebNative Suite Administration Guide

This guide provides basic information about installation, licensing and WebNative Suite administration. It also provides information to consider before installation, such as optimal file-system organization and security issues. Chapters include details about administrative settings and basic ways to customize the look and feel of Web sites.

The guide includes information about setting up everyday management of the WebNative Suite database, including ways to customize data fields and control their use by users and groups. It also contains information about automating production activities based on changes in the database and information about importing data.

Within this guide, you'll also find information about file-sharing and print spooling optimizations for production workflows and details about the many options available when running WebNative Suite software in a production environment.

The Xinet Client Guide

This guide provides information to help end-users who are WebNative Suite server clients—with either direct access to the server or access through a Web browser. It explains the growing list of Xinet utilities that help users get the most out of a WebNative Suite server. It also includes tips for working within that environment when using Macintosh or Windows applications from Quark, Adobe, etc., as well as features available when sites make use of Video for WebNative Suite, WebNative Archive, and WebNative Portal.

• Xinet PC Connectivity Guide

This guide provides information about installing, setting up and maintaining the Xinet modified Samba software which allows Microsoft Windows clients to interact with WebNative Suite.

• The Xinet Guide to Development APIs

Not all sites where Xinet software is installed will need this volume. It presents information about WebNative Suite that will interest programmers customizing the product beyond ways made available through the GUIs which ship with it. Turn here for command-line customizing and diagnostics and more significant changes to WebNative Suite interfaces.

• The WebNative Portal Guide

This guide explains installation, licensing and administration for WebNative Portal sites. It also provides an overview of using WebNative Portal to customize the look and feel of user sites and gives examples of building new functionality to even further extend the product.

• The Xinet Guide to WebNative Portal Data Interchange

This guide, intended for developers who want to customize and extend WebNative Portal beyond those options which ship with the product, provides information about how to communicate with a WebNative Suite server using the *portalDI* CGI. The *portalDI* CGI is a query-based application responsible for such things as constraining information displays, presenting browse and search results, and managing shopping basket and metadata interactions.

The Video for Xinet WebNative Suite Administration Guide

This guide provides information about installing and configuring the WebNative Suite Video module, including information about its various options, settings, metadata capabilities and interactions with the WebNative Suite database.

• The Xinet WebNative Archive Administration Guide

This guide provides details about using WebNative Archive to allow WebNative users to communicate over the Web with Symantic Backup Exec™ or SGL FlashNet archiving software. The guide explains installation and administration and provides guidelines for user interaction over the Web.

On-line manual pages

UNIX-style on-line *man*(1) pages are included with UNIX distributions. While not intended for the lay reader, they provide handy reference for more technically-advanced administrators and for programmers who want to work with Xinet programs from the command line. The *man*(1) pages are also included as part of each PDF manual.

• WebNative Suite on-line help

Context-sensitive Help buttons in the WebNative Suite administration interfaces provide information about options in GUIs. They open appropriate pages within the *WebNative Suite Administration Guide*.

Xinet TechNotes

Xinet TechNotes provide information about technical issues not included in manuals. Like the *Xinet Guide to Development APIs* and *man*(1) pages, the notes are often aimed at those extending Xinet products beyond functionality offered in Xinet GUIs. They also provide information on issues that change quickly or that are of a transient nature.

WebNative Suite development tools

The WebNative Suite file format

Summary

This section describes the file format that WebNative[®] Suite uses to store Macintosh files on a UNIX file system. It does not apply to the Microsoft Windows platform.

This information provided here as accurate as possible; however the design and the code it describes are subject to change at any time.

Introduction

The file format that Xinet uses for UNIX file systems was chosen with four main goals:

- A clean interface from the UNIX side
- Portability and extensibility
- Performance
- Backwards compatibility

The desire to allow UNIX users and Macintosh users to easily share data files mandated a double file format with the data fork easily accessible. To keep the UNIX interface clean, we choose to hide the resource forks in a hidden directory, .HSResource. This allows easy access for UNIX utilities to the files data fork, and allows quick and easy access to the resource fork from the AFP server. Since there were no standard file formats at the time (AppleSingle and AppleDouble did not exist yet), and since it was clearly a performance loss to store file attribute information in each file, Xinet chose to put all of the attribute information for a single directory in one Desktop file, called .HSancillary. This format also makes it easy to determine if the directory contains WebNative-Suite-format files. (Simply check if .HSancillary exists.) resfilename() will map a data file name to the corresponding resource fork file name, hiding the details from the applications programmer.

Files created on the server (rather than by Macintosh applications) do not normally carry the type of information found in DeskTop files. Whenever the server encounters a file which did not originate on one of the clients, it tries to determine the type of the file (from a list of rules in the *filetype* database), assigns it a file type and creator.

A side effect of the way WebNative Suite creates .HSancillary files is that if users actually remove an .HSancillary file, they remove all "file type" information about the files. The server will then rebuild the.HSancillary file, doing its best to re-create type and creator information. With the introduction of AFP protocol version 3, Xinet software began supporting longer file names encoded as UTF-8. Previous versions of Xinet software had strict limitations on file names stored on the server.

Contents of .HSancillary: struct ai

The .HSancillary file contains one or more structures of the type ai (ai stands for "ancillary info"). The following shows the definition of struct ai. The current version number, which is contained in field ai version, is 8139.

```
/* Decimal Offset - Description */
struct ai {
        struct accrts
                           ai inhAR;
                                                                  /* 0 - rights inhibit bits */
        struct fInfo ai_finfo;
long ai_createDate;
                                                                  /* 8 - finder info */
                                                                  /* 40 - creation date */
                                                                  /* 44 - backup date */
        long
                            ai_backupDate;
        unsigned int ai_version;
                                                                  /* 48 - for future reference *
        /unsigned short ai_attr; /* 52 - attributes */
unsigned char ai_comment[MAXCMTSIZ + 1]; /* 54 - comment in Pascal format */
char ai_lname[CNNBUFLEN]; /* 254 - Mac AFP Long Name (8-bit) */
char ai_sname[SNBUFLEN]; /* 286 - AFP Short Name */
        u char
                            ai xmaphigh; /* 299 - .HSxmap index (upper 8 of 24 bits) */
};
```

The following code shows predefined constants:

```
#define CNNBUFLEN
                          32
                                                 /* length of AFP Long Name buffer */
#define SNBUFLEN
                          13
                                                 /* length of "short name" buffer */
                                                 /* version of struct ai */
#define AI VERSION1
                          8139
                                                 /* size of a comment string */
#define MAXCMTSIZ
                          199
                                                 /* size of struct ai for sun 4 */
#define AI SIZE
                          300
#define FINFOSIZE
                                                 /* size of Finder Information */
                          32
```

Code for struct accrts follows:

With the advent of distributed file systems it is possible that the .HSancillary file is actually on an NFS file system shared between different processor architectures. Therefore, one should make sure that all programs dealing with the file use network byte ordering and SUNSparc architecture structure-padding conventions (see htons(3)). Correct field offsets are noted in Figure 2-1. The current size of the structure is AI_SIZE . Application programmers can use opendt () to open the DeskTop file, and the various *ai() routines to read and write DeskTop entries.

The server reuses entries in this file rather than deleting them when files are deleted. An entry describes an actual file when ai_lname contains the Macintosh file name, *i.e*, ai_lname[0] !=0. Entries for which ai_lname[0] == 0 should be reused before new entries are appended to the DeskTop file. (This is done automatically if you use findaientry()).

The structure *accrts* contains the access information. Its size is 8 bytes. Figure 2-3 gives a simplified description.

The structure finfo

The structure finfo shown below contains the Finder information. The structure also contains the type and creator fields fi type and fi creator, respectively.

The fi_type and fi_creator are the structures one changes to set the Macintosh type and creator information.

File naming conventions

Macintosh files may contain characters not normally acceptable for UNIX file names. WebNative Suite software handles this on the UNIX side by substituting a three-character hexadecimal representation of the Macintosh character; for example, the Macintosh file name jam/jelly becomes jam:2Fjelly when moved to the UNIX server. This name mapping will be transparent to WebNative Suite Macintosh clients — in other words, the file will have its original Macintosh name when opened by a Macintosh application.

WebNative Suite support for AFP protocol version 3 includes longer file names encoded as UTF-8. Previous versions of Xinet software always converted non-ASCII characters in the AFP Long Name (limited to 31 characters) to their colon-escaped equivalents. (Mainly because early UNIX file systems only allowed 7-bit ASCII in file names.) Since modern UNIX file systems support a full 8-bit file name space, new file names are stored as UTF-8 in the UNIX file system. They are supported without changing the layout of the *struct ai* data (described

above), but by adding a new file, .*HSxmap*, that maps these non-AFP-Long-Name-conforming names to their *AI* entries.

If an AI entry's ai_xmaphigh and/or ai_inhAR.xmaplow fields are non-zero, the entry is for an AFP 3 file name (UTF-8, 255 characters maximum), and the actual file name is stored as a Pascal string in .HSxmap, at byte offset ((ai_xmaphigh << 16) + ai_inhAR.xmaplow) * 64. Otherwise, the ai_lname can be converted to the actual file name by replacing any byte values less than 32, greater than 126, or equal to 47 (the "slash") with their upper-case HEX-value preceded by a colon (illegal in the AFP file name space). Note that even UTF-8 file names must have control-characters and "slash" converted to their colon-escaped HEX equivalents.

If you use <code>getdtent()</code> and <code>setdtent()</code> calls, <code>oropendt()</code> and its companions (<code>readai</code>, <code>writeai</code>, <code>makeai</code>, <code>findaientry</code>, <code>closedt()</code>, all AFP name mapping is handled inside those routines. They all take file system paths as arguments and convert names as necessary. Note that it is perfectly legal to mix old-style ASCII-HEX-encoded names and new-style UTF-8 names in the same directory.

WebNative Suite file manipulation utilities

Xinet provides a number of command-line tools for working with WebNative-Suite-formatted files in the file system. Developers who wish to manipulate these files should do so using the utilities described in this section.

When a user modifies files using a mounted volume on Mac OS 9 or Mac OS X, or a Xinet Samba volume mounted on a PC client, the daemon ksd(1M) makes changes on both forks of the file. If you wish to move, copy or delete files in a WebNative Suite volume without using a mount, Xinet file manipulation utilities allow you to preserve the resource/data fork relationship. The utilities are located in:

UNIX: /usr/etc/appletalk

Windows: C: \Program Files\Xinet\FullPress

They include:

- *kats*(1) Read ancillary information about files and directories. Use the -v flag for verbose output; for example kats -v file.tif.
- Move files or directories. Use the -p flag to preserve permissions; for example, ksmv -p /path/1 /path/2.
- *kscp* Copy files or directories. Use the -*p* flag to preserve permissions; for example kscp -p file1.tif file2.tif.
- *ksrm* Remove files or directories. Use the -*r* flag to allow recursive deletion; for example ksrm -r /path/1.
- kunarc(1) Convert between various Macintosh archival formats and the WebNative Suite file format. The supported archive formats include AppleSingle, AppleDouble, BinHex, CAP-AUFS 3.0, Helios Ethershare, MacBinary, TOPS (version 2 or later) and IPT uShare 4.1
- dtrebuild(1) Maintain databases used by the AppleShare server, a la "Rebuild DeskTop" on the Macintosh. Also use it to (re)create FPO/Web images.

In addition to preserving file resources, the WebNative Suite utilities also ensure that events are sent to WebNative Venture to update the state of each file in the database.

Customizing print queue options in the WebNative Suite GUI

Xinet's FullPress 11.0 introduced print queues that generated PDF, TIFF, and TIFF/IT output. GUI-configureable PDF queues followed in version 12. This section explains simpler ways to change the parameters for these and other WebNative Suite queues that use the *PostScript Interpreter* to output files in other formats. Complete details of supported parameters and known problems can be found in *Xinet TechNote 122*.

The program responsible for making PDFs and other image format files is called rip. The rip program is called by the runrip(1) program, which is in turn called by the lp(1) system when a job is sent to a Xinet queue. Ultimately, the rip process needs to have configuration parameters set. You can do this in several ways:

- Edit the *runrip*(1) command used by the queue.
- Make a getrip conf.local file that will affect all new queues
- Make an *OPTIONS.PS* file for a queue or spooler.
- Copy and edit the XINET.PPD to allow parameters to be selected at print time.
- Finally, a few parameters are set by the application when you print from the Mac.

Background

The runrip(1) program accepts arguments that can be passed on to the rip program. See the man page of runrip(1) and $Xinet\ TechNote\ 122$ for more details. Almost all arguments to runrip(1) (save three specific ones) are simply passed on to the rip program, so changing the options for runrip(1) really changes the options for the rip.

When a print queue is created, an entry is made in the /etc/printcap file on UNIX systems and C:\Program Files\Xinet\FullPress\Admin\printcap.wri on Windows. The ex field for a PDF, TIFF, or TIFF/IT queue will have the command runrip in it, which is executed by lp(1) and sets up the execution environment for rip.

Please note that /etc/printcap entries should be typed in a single line, without "returns." A sample line from /etc/printcap for a PDF (print) queue:

```
: ex=/usr/etc/appletalk/runrip -q -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -dCompatibilityLevel=1.3 -c .setpdfwrite -f /var/adm/appletalk/psfiles/pdfscreen - : \\
```

A sample line from /etc/printcap for a TIFF/IT queue:

```
: ex=/usr/etc/appletalk/runrip -t /usr/etc/riptmp -s -q -dNOPAUSE -dBATCH -sDEVICE=tiffitp1 -dMaxBandStorageMB=1 -dMaxBandMB=40 -dCTResolution=304.8 -r18 28.8 -: \\
```

The arguments to runrip(1) influence the creation of the output files. The meaning of each parameter is described in detail in *Xinet TechNote 122* under the topic "General Operation and Interaction." There is a separate subsection for TIFF/IT file parameters.

The default settings for *runrip*(1) for each type of queue is defined in the file \(\frac{\var/adm/appletalk/getrip_conf} \) (UNIX) and \(C:\Program \)
\(Files\Xinet\FullPress\Admin\getrip_conf\) (Windows). This file is not meant to be edited, since it will be updated in future releases of WebNative Suite.

The other way to influence how output files are produced is to add parameters to the PostScript stream, either by a "slug" or at the source. One "slug" method is a file on the server added to the *runrip*(1) command for a specific queue, which gets read by the *rip* before the main body of the PostScript. Parameters for distilling must be set via the *setdistillerparams* operator. Parameters for making other format output must be set via the *setpagedevice* operator.

Xinet adds its own slug to PDF queues by default. Every PDF queue made uses the default set of parameters for PDF preview queues listed in a file: \(\frac{\var/adm/appletalk/psfiles/pdfscreen}\) (UNIX) and \(C:\Program Files\Xinet\FullPress\Admin\pfscreen}\) (Windows). For PDF print queues it uses \(\frac{\var/adm/appletalk/psfiles/pdfprint}\) (UNIX) and \(C:\Program Files\Xinet\FullPress\Admin\pdfscreen}\) (Windows) These files are not meant to be edited. They use standard Adobe-defined parameters for distilling. There is no default file for parameters for TIFF and TIFF/IT queues. All the options are in the runrip command line.

Editing arguments to runrip(1)

The easiest way to change the parameters for a queue is by altering the runrip(1) command line in the WebNative Suite GUI. The runrip(1) command is listed in $Output\ Print\ Queues > Configuration > File/Custom$ and can be edited there. That changes the ex entry in the printcap file.

Use the above method if you want to change parameters for a single, existing queue.

Editing the getrip conf.local file

The default settings for *runrip*(1) for each type of queue is defined in the file /*var/adm/appletalk/getrip conf*. This file is not meant to be edited.

You can make your own entries for *getrip_conf* in a file called *getrip_conf.local* and add your own default settings or even your own output format for new queues, as well as override existing queue types in *getrip_conf*. This will alter the *runrip*(1) options on all future print queues, not just a particular queue. Existing queues will not be changed.

Use the above method if you know all future queues will need configuration options other than the defaults selected by the *getrip_conf* file.

Making an OPTIONS.PS file

An *OPTIONS.PS* file can be used to pass on a PostScript slug to a queue or for a particular spooler to a queue. Look at the section "Adding PostScript slugs to Print Jobs at the Server" inside the *WebNative Suite Administration Guide* for details about using an *OPTIONS.PS* file.

Parameters can be placed in an *OPTIONS.PS* file and they will be inserted at the start of the PostScript stream.

Here is an example of setting the resolution for the CT and LW of a TIFF/IT queue. The entire contents of the *OPTIONS.PS* include:

```
<< /CTResolution 304.8 /HWResolution [1828.8 1828.8] >> setpagedevice
```

All TIFF/IT options listed in *Xinet TechNote 122* can be part of the *OPTIONS.PS* file. If you add an option here, it's a good idea to remove the command line equivalent from the *runrip*(1) entry for the queue. If the same parameter is specified in both the *OPTIONS.PS* file and the *runrip*(1) command line, the slug in the file will override the *runrip*(1) options. The only exceptions are the -*r* (resolution) and -*g* (height and width) options, where the opposite is true.

PDFs parameters are set like this:

```
<< /GrayImageResolution 300 >> setdistillerparams
```

The settings within an Acrobat Distiller can be "imported" to a Xinet PDF queue by copying them to an *OPTIONS.PS* file for a print queue and/or spooler.

Not every parameter will work with the Xinet interpreter; exceptions are detailed in *Xinet TechNote 122* in the section "Making PDFs: not your mother's Distiller."

The *OPTIONS.PS* file is read after the *pdfscreen* and *pdfprint* files So if a setting is defined in both the *pdfscreen/print* files and the *OPTIONS.PS* file, the parameter in the *OPTIONS.PS* file is the one that will take precedence.

Use the above method if:

- You want to "import" the parameters used in Adobe's Distiller. Just put them all in the file as part of *setdistillerparams*
- You want different options per spooler, but you also want just one print queue.

For more details on importing Acrobat Distiller options, see *Xinet TechNote 130*

Editing the XINET.PPD

To make this work, the *XINET.PPD* needs to have more *OpenUI* information added to it. This is a standard feature of PPDs and part of the PostScript language. Essentially, different selections made in the client's print dialog box will add different PostScript slugs to the PostScript stream. It's the same concept as putting slugs in the *OPTIONS.PS* file.

Here is an example. It adds a menu with options for making TIFF/ITs at different resolutions.

```
*% set the resolution of TIFF/IT files:
*OpenUI
*Resolution: PickOne
*OrderDependency: 30.0 AnySetup
*Resolution
*DefaultResolution: CTResolution304.8
```

```
*Resolution CTResolution304.8/CT Resolution 304.8: " <</CTResolution 304.8 /HWResolution [1828.8 1828.8]>> setpagedevice" 
*Resolution CTResolution152.4/CT Resolution 152.4: " <</CTResolution 152.4 /HWResolution [914.4 914.4]>> setpagedevice" 
*CloseUI: *Resolution
```

This example uses a menu bar, but you could also use a radio button. Most PPDs use *OpenUI*, so it's easy to find examples to follow.

The XINET.PPD will be overwritten with each upgrade of WebNative Suite, so you want to make a copy of it and edit that copy. To add that PPD to a specific already-existing queue, move the new PPD to /var/spool/PRINTERNAME/PRINTER.PPD (UNIX) or C:\Program Files\Xinet\FullPress\Admin\spool\PRINTERNAME\PRINTER.PPD (Windows) replacing the current PRINTER.PPD in that directory. To make the new PPD the default selection when making new PPDs, make a getrip_conf.local file (see section above for details) and add a reference to the new PPD. The last field of the line for each queue refers to the default PPD.

Here are the basic steps to follow for editing your PPD:

- 1. Make a copy of the XINET.PPD, saving the old one.
- 2. Edit the PPD to add the *OpenUI* functions you want.
- 3. Make a new print queue and spooler.
- 4. Edit the *runrip* line for the queue so that any options you've added in the PPD are *not* in the *runrip* line. So if you've added a way to set the resolution of TIFF/ITs in the PPD, remove the *-dCTResolution* and *-r* flags to *runrip* for this queue.
- 5. Distribute the new PPD to the Macs and make a desktop spooler.
- 6. When you print from QuarkXPress, the new menu bars will be the *Printer* set up in *Printer Specific Options*.

If you *don't* want to make a new queue, you can keep the old one and just change the PPD it uses. The PPD used is in /var/spool/PRINTERNAME/PRINTER.PPD (UNIX) and C:\Program Files\Xinet\FullPress\Admin\spool\PRINTERNAME\PRINTER.PPD (Windows). Edit the PPD in /var/adm/appletalk/ppds (UNIX) or C:\Program Files\Xinet\FullPress\Admin\ppds (Windows), then copy it (don't move it) to the spool directory of your print queue. Also distribute the new PPD to Macintosh users. Edit the runrip line, too, if necessary.

Use the above method if you want Macintosh users to be able to select parameters when they print from QuarkXPress or any other layout application. Using this method, you can have one print queue, one spooler, and let people decide what options they want when they print.

When parameters are set by the layout program

Finally, some parameters, such as the type of screening, are beyond your control; i.e., they are set by QuarkXPress or InDesign when the PostScript is made. In particular, this affects making MonoTIFFs.

Advanced customization of print queue options

This section describes advanced ways to customize print queue options found in the GUI, and is appropriate for system integrators or more advanced administrators of large operations.

"Adding PostScript slugs to Print Jobs at the Server" in the *WebNative Suite Administration Guide* describes how to use a PostScript slug file called *OPTIONS.PS* for custom print queues. Typically, an administrator creates this slug and installs it "by hand." More advanced administrators may want to employ an optional PPD-like file to maintain user-configureable options that are then written to the *OPTIONS.PS* file. The PDF/X-1a and Configureable PDF output queues already use this mechanism.

The *printcap* option

To enable this feature, add an *op* key to the *printcap* entry for a print queue, or include it in a *getrip_conf.local* entry. (See the comments in the *getrip_conf* administration file).b The value of the *op* key should be the filename of a PPD file containing the options.b If the filename is not absolute, the file will be looked up in the default Xinet PPD directory (/var/adm/appletalk/ppds on UNIX and, by default,

C:\ProgrambFiles\Xinet\FullPress\Admin\ppds on Windows systems).

To support internationalization, the filename is first looked up with the current locale as a suffix.b For example, you can have English strings in an option file called, say, *myOpts* in the PPD directory, and german strings in an equivalent file called *myOpts.de*, and set the *op* key like this :op=myOpts:

What's in the option file?

The file referenced by the *op* key should be in PPD format, though it need not contain all the usual PPD-ish information.b The only things used from the file are the *NickName* and all *User Interface* sections (delimited by *OpenUI* and *CloseUI* lines).

The GUI shows a new configuration option button, named *Output* by default, to access the *UI* options.b The button name will be set to the *NickName* in the option file, if the file has one.b Clicking that button brings up a configuration window showing each *UI* option and allowing the user to select them and save the options. These options get written to an *OUTPUT.PPD* file in the print queue's administration directory.b The "PostScript" from the *User Interface* options gets saved to *OPTIONS.PS* in the same directory.

See an example in the *PDFX.OPT* file in the PPD directory.b It works, along with the *pdfx* file in the *psfiles directory*, to implement all the PDF/X-1a functionality in WebNative Suite.

WebNative Development Tools

WebNative® Suite provides a Web interface to WebNative Suite volumes. WebNative accesses assets in the file system and provides display, search, ordering and download, conversion, and other features via a standard Web browser. Depending on each user's or group's permissions, WebNative allows users to upload files, modify images and download them (individually or in batches), create new subdirectories, rename, copy and delete files and directories.

The display mechanism for WebNative uses "Styles" which are written in Javascript. Xinet creates and distributes a set of Styles with WebNative, and the product is designed to allow users to customize their own look-and-feel by modifying these supplied Styles or writing their own. WebNative also includes plug-ins for QuarkXPress and Adobe InDesign on Macintosh platforms, which embed previews and linked image information inside the document in a Xinet-proprietary format. WebNative parses this information from the files on-demand and displays this information in a Web browser.

WebNative customization possibilities

Besides the use of WebNative Portal, there are five ways to customize WebNative Suite Web interactions:

1. Basket plugins

The section, <u>"The WebNative Basket API" on page 16</u> of this guide, describes the Basket API. Xinet supports the creation of CGIs accessed by users who are allowed to use WebNative shopping baskets. These CGIs generally perform a function such as a batch-conversion of all files in the basket, or email an administrator to alert them to a request made.

2. Buttons

Rather than customizing the whole Style, you may wish to add or modify buttons that perform specific actions within each Style. The section, "Xinet Button API" on page 24 of this guide describes the addition of custom buttons, including ways to add them to the Javascript files that control interaction between the Styles and Xinet CGIs.

3. Styles

WebNative uses Styles to customize a user's or group's online experience. The default Style for all actions is "House," Xinet's own Style. However, users often want their site tailored to their brand —colors, logos, metadata, etc. can be integrated to create a unique

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face for WebNative. For more information on using and creating custom Styles, see "Customizing WebNative Styles" on page 28 in this guide.

4. WebNative CGIs

WebNative is comprised of CGI programs that are tied together to generate the WebNative environment. In many instances, for example, when building custom interfaces or working with database integration, there may be reasons to call the CGIs individually. For more information about what the different CGIs do, how to call them, and what results they return, refer to "WebNative Suite CGIs" on page 33.

5. Employing WebNative *Uploader* in an AppleScript

The WebNative Basket API

Introduction

The WebNative Basket API has been designed to allow Xinet integrators to provide unique services while still preserving the easy-to-use interface of WebNative. The Basket API allows additional functionality to be added to WebNative in the form of simple "plugins." The API is designed to keep the plugins easy to write while still providing enough flexibility to allow most user demands to be met.

Basic programming steps

This section outlines the basic steps you'll need to take to program your own *WebNative Basket API*. After you've read the examples which follow it, you should be able to follow these general steps to develop your own interfaces.

In order to generate any WebNative plugin, you need three pieces:

- An icon which represents the operation to users, stored normally as a GIF image no higher than 30 pixels
- A name for the operation
- · A CGI program that accepts a basket as an argument

Now, here are the steps to follow:

1. First, name the operation, develop your CGI, and design the icon you'll need.

While generating the icon and coming up with a name are quite simple, generating the actual CGI is a little bit more work. The CGI can be any program executable on the server, including compiled C programs, shell-scripts, PERL scripts, etc. If the program wishes to invoke a user-interface, it must act as a CGI-form and arrange to have itself called again. "Examples of custom shopping basket operations" on page 18 presents examples of actual CGIs.

2. Place a copy of your program and icon in the WebNative *plugins* directory, set appropriate permissions, and put a copy of the new program in each user's configuration options.

On Windows systems, use the Windows interface to do these things, placing the icons in the folder *C:\Program Files\Xinet\WebNative\Admin\images* and the plugin itself in the folder *C:\Program Files\Xinet\WebNative\Bin\plugins*.

On UNIX systems, do the following:

- # cp myplugin /usr/etc/webnative/plugins
- # chmod 4555 /usr/etc/webnative/plugins/myplugin
- # chown username /usr/etc/webnative/plugins/myplugin
- # cp myicon /var/adm/webnative/images/myicon.gif
- # chmod 444 /var/adm/webnative/images/myicon.gif
- 3. Then *cd* to the /var/adm/webnative directory on UNIX systems or open the *C:\Program Files\Xinet\WebNative\Admin* on Windows systems. Edit the *basket.config* file there, so that it will contain information about the components of the API you've written and how you'd like users to interact with the API.

The format of each entry in the basket.config file (tab separated) is as follows:

CGI-program name icon username flags

where:

- *CGI-program* represents the name of the CGI. The program should always be located in /usr/etc/webnative/plugins on UNIX systems and *C:\Program Files\Xinet\WebNative\Bin\plugins* on Windows systems. It should be executable by the world.
- name represents the name of the plugin which will appear in pop-up menus and in title bars.
- icon represents the name of the icon file, which must be stored in /var/adm/webnative/images/ on UNIX systems and C:\Program Files\Xinet\WebNative\Admin\images on Windows systems.
- username is not used at this time.
- flags is a decimal number representing the options set for this plugin. The flags themselves are the bits set in the number's binary representation:
 - 1 in this field means that new users will see this plugin by default.
 - 2 says the plugin handles archive files.
 - 4 means the plugin needs the WebNative Suite database

(More flags may be defined in the future.)

4. Test the plugin to make sure it functions correctly.

The user *nativeadmin* can delete plugins.

By default, plugins will run as the user *nobody* and have that user's permissions. This is standard Apache behavior. If the plugin needs to be run as a different user with more permissions (say, as *root*), you have the option to make the plugin a *setuid*(2) program, using the following command:

chmod 4755 plugin name

This allows the plugin to run as the current owner of the program. If the owner is *root*, then *root* permissions will apply when the program is run.

However, this approach will not work if the plugin is a script, as UNIX, as a security measure, does not allow scripts to be run with *setuid*(2). If you have written a script and *nobody* permissions are insufficient, you have three options:

- Change permissions on the server so all affected areas are writeable by world.
- Rewrite your script as a program and make it run as *setuid*(2).
- Write a one line C program that simply calls the script. Then make that program be *setuid*(2). The permissions will be inherited by the script.

Examples of custom shopping basket operations

This section describes some sample plugin operations in order to demonstrate the power and simplicity of the WebNative plugin interface. After describing what they do, we will show how they were implemented as examples of what can be done easily and quickly to customize WebNative.

Ordering images

For a variety of reasons, some prepress shops may not want customers to download images over the Web; for example, the available bandwidth may not make it reasonable, or they may be hesitant for legal considerations, or the shop may want to charge for the service of providing the images. A reasonable scenario might be for these shops to allow customers to *view* their images via WebNative but not be able to download them. The customers could select which images they wanted, and using the basket interface, request that the service provider, for example, place the images on removable media and send them to the customer. Using the *Request shipment* interface, the customer would provide the mailing address, and select the type of media. In our example, the plugin emails an operator instructions about what to

Netscape: Default basket 回目 1. The user requests to have files sent on moveable media. 2. Then, the user fills in ○ Icon View ○ Short View ● Long View Clear information about where to send the file ICC34.ps and the media he or she wants. ast accessed: Thu Aug 20 13:33:39 1998 Netscape: Request shipment Your Name: Rickee Xavier Company: EG Design Address: 666 Mission, San Francisco CA 94777 Media: CDROM Request Shipment Cancel Created on: Fri Dec 12 15:28:15 1997

generate; but many other mechanisms are possible. We've programmed an interface which looks like this:

Figure 3-1 Ordering an image

Programming the "Request shipment" interface

After deciding on the name *Request shipment*, we created the wrapped package icon for the GUI. The next step was to write the CGI which was executable on the server.

In this case the program provides a way for the user to select the type of media which will be shipped and to supply an address. A complex user interface wasn't necessary. We implemented the program as a C-Shell script; it could, however, be easily implemented in any language. The source code, shown below, is also available online in /usr/etc/webnative/plugins/ship on UNIX systems and C:\Program Files\Xinet\WebNative\Bin\plugins\ship on Windows systems.



```
# Set the title bar of the window.
echo "<TITLE>Request shipment</TITLE>"
# Initialize some variables
set NAME=""
set COMPANY=""
set ADDR=""
set MAILUSER="root"
set MEDIA=""
set nonomatch
if (-f "/usr/adm/webnative/$REMOTE USER/mailto") then
        set MAILUSER=`cat "/usr/adm/webnative/$REMOTE USER/mailto"`
else if (-f /usr/adm/webnative/mailto) then
        set MAILUSER=`cat /usr/adm/webnative/mailto`
endif
# Extract our input variables (come through stdin) and place them
# in their equivalent csh variables. You are not expected to understand this
# Made extra complicated by Solaris sed bugs.
cat > /tmp/tmp.$$
echo " " >> /tmp/tmp.$$
foreach arg ( `cat /tmp/tmp.$$ | sed -e "s/&/ /g" -e "s:%2F:/:g"` )
        set var=`echo $arg | sed 's/=.*//'`
        set value=`echo $arg | sed -e 's/^.*=//' -e 's/+/ /g' -e
s/%[0-9ABCD][0-9ABCD]//g'-e's/\r//'
        eval "set $var="\"$value\"""
end
rm -f /tmp/tmp.$$
# Get rid of odd argument passing artifacts
set basketfile=`echo $1 | sed -e 's/\\//g'`
set MAILER=""
foreach file (/usr/ucb/Mail /usr/bsd/Mail /usr/sbin/Mail /usr/bin/mail)
       if (-x $file) then
                set MAILER=$file
                break
        endif
end
if ($MAILER == "") then
        echo "Sorry, I can't send mail"
endif
# Here we check and see if the information is filled out. If so, it
# means we are being called from ourselves and the submit button
if ("$NAME" != "" && "$COMPANY" != "" && "$ADDR" != "") then
# generate a mail message in a temporary file and place the user
```

```
# information in it. The $$ makes the file unique.
        touch /tmp/mailreq.$$
        echo "$NAME" >> /tmp/mailreq.$$
        echo "$COMPANY" >> /tmp/mailreq.$$
        echo "$ADDR" >> /tmp/mailreq.$$
        echo " " >> /tmp/mailreq.$$
        echo "Requested a $MEDIA be shipped containing: " >> /tmp/mailreq.$$
        echo " " >> /tmp/mailreq.$$
        # The basketfile variable contains the name of the collection file
        # In this case we just list out the contents of the file to
        # our temp file.
        cat /tmp/mailreq.$$ "$basketfile" | $MAILER -s "Web Order" $MAILUSER
        # Clean up the temporary file
        rm /tmp/mailreq.$$
        # Give the user feedback. You can't have buttons
        # unless you have a FORM
        echo "<FORM>Thank you for your order $NAME<BR>"
        echo "Your $MEDIA will be sent as soon as possible."
        echo "<P>"
        echo "<INPUT TYPE=BUTTON VALUE='Close Window'
onClick='window.close()'>"
        echo "</FORM></HTML>"
        exit. 0
endif
# Here the user filled out some of the information but not all
# A more robust program would complain about the specific
# entries that were not filled out.
if ("$NAME" != "" || "$COMPANY" != "" || "$ADDR" != "") then
        echo "Please fill out all of the requested fields"
endif
# Request the information if we do not have it yet
echo "<FORM METHOD=POST>"
echo "Your Name: <INPUT TYPE=TEXT NAME=NAME VALUE='$NAME'><BR>"
echo "Company: <INPUT TYPE=TEXT NAME=COMPANY VALUE='$COMPANY'><BR>"
echo "Address: <INPUT TYPE=TEXT NAME=ADDR VALUE='$ADDR' SIZE=40><BR>"
# Use a fancy pull-down for the media selection
echo "Media: <SELECT NAME=MEDIA>"
echo "<OPTION value=CDROM selected>CDROM"
echo "<OPTION value='ZIP Disk'>ZIP Disk"
echo "<OPTION value='Syquest Cartridge'>Syquest Cartridge"
echo "</SELECT>"
echo "<BR>"
# We have a button to submit the form (calls the same program)
# and one to cancel the whole operation.
echo "<INPUT Type=submit Value='Request Shipment'>"
echo "<INPUT TYPE=BUTTON VALUE=Cancel onClick='window.close()'>"
echo "</FORM>"
```

As you can see, it is not difficult to generate a WebNative plug-in. Some simple enhancements that could be made to this plug-in based on a site's individual needs include (but are not limited to):

- Loading the customer's address automatically from a database.
- Automatically generating a proof-sheet (with the contents of the media, and preview images) to go along with the media.
- Providing the customer with a summary of charges for the operation before they request
 it.
- Actually generating the media on the server (see third-party plugins for more info).

Requesting restoration of archived files

Most sites operate in an environment where each customer job is archived sometime after printing. Through integration with the archiving and back-up software, FlashNet from SGL, WebNative makes it possible to review what's been placed in FlashNet archives, even though the files are no longer online. We include a CGI with WebNative which allows end-users to request restoration of archived files. You can look at this CGI in /usr/etc/webnative/plugins/restore on UNIX systems and C:\Program Files\Xinet\WebNative\Bin\plugins\restore on Windows systems.

Requirements of a CGI

Now that we have seen sample CGIs, it will make more sense to describe what a CGI must do. The CGI will be called initially with a single argument, which is a file containing the list of the files in the basket. If the CGI requires any user interaction, then it is responsible for generating an HTML form that calls the CGI again. It is also responsible for passing on the name of the basket file. Even without an API, the CGI should generate valid HTML telling the user whether the operation succeeded or failed.

The CGI will always run in its own window. Opening other windows is not recommended. The CGI itself has permission to do very little. If it needs to access the actual files referenced, it should do so by calling the built-in WebNative CGIs. The most common CGI to call is *getimage*, which will preview FPOs, or high-res data for files. This allows CGIs to be programmed without having to worry as much about their security implications. If necessary, CGIs can be specified to run as other users, but this is not recommended for novice programmers.

Basket files

WebNative maintains a user's basket state as a text file on the server. The file exists in the user's WebNative home directory (/var/adm/webnative/user_name on UNIX systems and C:\Program Files\Xinet\WebNative\Admin\user_name on Windows systems), with the name of the file being controlled entirely by the BAKSETNAME cookie. Typically, WebNative maintains the BASKETNAME cookie which is composed of the user's IP address, followed by eight random hexadecimal digits, followed by the extension basket, e.g., 192.168.0.23.ca84e231.basket. This format ensures that users sharing a login and IP address,

like those behind a NAT router, have unique baskets. However, a style author can take control of the *BASKETNAME* cookie and use any naming scheme he or she prefers.

The basket file contains a new-line-delimited list of file descriptions. Those descriptions follow two formats:

- The first, for regular files that are not archived, is simply the path to the file on the server.
- The second, for files that have been archived, is as follows:

```
voltime:volname:archiveno:path
```

where voltime represents the time the file was archived, volname indicates the name of the volume from which the file was archived, archiveno indicates how many times the file has been archived previous to the current archive, and path is where the file lived in the file system at the time the archive was created.

Plug-in suggestions

The plug-in interface is designed to provide a powerful tool for customizing without sacrificing the simple WebNative interface. In order to make your plug-in effective, try to follow these guidelines:

- · Keep it simple.
 - Don't give users more interface then they need. If you need more than one screen to enter your interface, consider implementing two different plugins. Anytime you can make a reasonable decision for the user, do so. Don't get caught in the trap of thinking that more options mean a better program. If in doubt, leave it out.
- Try to make your icon and name meaningful.

 The first interaction a user has with your plug-in will be the icon and pop-up name. Make sure the icon indicates function, and does not require previous knowledge. For example, don't use your corporate logo, as the general user probably has no idea what you make. Make the name descriptive enough to let the user decide if it is what they want to do. Good icons are hard to make. Don't be embarrassed about changing your icon if you find people don't get it. The Apple publication *Macintosh Human Interface Guidelines* gives some great tips for designing icons. You can download a copy of this publication from ftp://ftp.apple.com/devworld/Technical_Documentation/Human_Interface/Human_Interface Guidelines.sit.hqx
- Allow the user to cancel.
 At any time before finishing the transaction, users should have some method of canceling the request, and if applicable, changing their requests.
- Check for errors.
 The most time-consuming part of writing a plug-in is checking and properly reporting error conditions (full disk, etc.). If you are writing a general-use plug-in, take the time to get these conditions right, and test every one of them.
- Use guinea pigs.
 Once you are done, have people run the plug-in while you watch. Don't tell them what to do, and see where they trip.

Xinet Button API

Introduction

The button API was established to give WebNative Style authors a way to extend the default behavior of WebNative Styles without having to actually modify the Styles themselves.

It allows a Style author to add a context-sensitive button to the list of existing, file-specific WebNative buttons, which reacts to user direction in a way completely defined by the button author. Moreover, it allows the button author to do so without modifying the host Styles. This enables button authors to extend Styles without having to sacrifice new features implemented in future Style revisions.

File organization

UNIX: /usr/etc/webnative/styles/filebuttons

Windows: *C:\Program Files\Xinet\WebNative\Bin\styles\filebuttons*

Location of all global button definitions, as well as the master *button.js* file. Each button definition should be stored in a separate file, should only contain JavaScript, and must have the *.js* extension. Files that only contain JavaScript can be marked with the *WN_Include_Safe* tag. Button definitions stored in this directory are included for every WebNative action.

UNIX: /usr/etc/webnative/styles/filebuttons/buttons.js

Windows: *C:\Program Files\Xinet\WebNative\Bin\styles\filebuttons\buttons.js*

The master buttons JavaScript file, which contains button-related object definitions, as well as the global button manager reference and the global action context reference. This file is included in every WebNative action.

UNIX: /usr/etc/webnative/styles/filebuttons/readme

Windows: *C:\Program Files\Xinet\WebNative\Bin\styles\filebuttons\button.js*

This file is actually a copy of this chapter.

UNIX: /var/adm/webnative/username/filebuttons

Windows: C:\Program Files\Xinet\WebNative\Admin\username\filebuttons

Location of all user-specific button definitions. Files in these directories should follow all recommendations suggested for global button definitions, with the additional stipulation that none be named *buttons.js*. Button definitions are included with every WebNative action, but only for the user for whom they are defined.

API information

Context flags are used to describe appropriate situations for displaying a button. Flags can be bitwise-OR'd together to create an integer describing all appropriate situations.

• CONTEXT BROWSE

If enabled, the button should be displayed in *browse*.

CONTEXT SEARCH

If enabled, the button should be displayed in search.

• CONTEXT IMAGEINFO

If enabled, the button should be displayed in *imageinfo*.

CONTEXT BASKET

If enabled, the button should be displayed in the basket.

• WNButton class

The WNButton class describes a button's characteristics, as well as provides a template for Style interaction with that button. Interaction with WNButton objects typically never extends beyond creation, initialization, and registration with the button manager.

WNButton(img, alt, context, orderPreference)

img A string describing the path for image used to represent the button. If

the image path does not begin with a forward-slash, it is assumed that the image exists in /var/adm/webnative/images (UNIX), C:\Program Files\Xinet\WebNative\Admin\images (Windows), or a Style subfolder within. Icon Style dimension constraints apply regardless of where the

image exists.

alt A string describing the alt text for the HTML IMG tag generated for the

button.

context An integer describing the appropriate context for displaying the button.

orderPreference A floating point number describing the button's order preference,

relative to other buttons registered with the button manager. Buttons with a higher order preference will appear before those with lower

order preference.

checkPermission(file, userPerms)

The *checkPermission* function is stubbed on object creation. It is up to button authors to define an implementation for it and register it with their button objects. Those implementations should examine the characteristics of the objects passed in and determine whether or not it is appropriate to display the button under those circumstances. If the user should view the button, <code>checkPermission()</code> should return true. If not, it should return false.

file An object representing a file, as defined in buildobject(), located in

global.js.

userPerms An object representing the user's permission configuration, as defined

in userinfo(), located in global.js.

• getAnchorProperties(file, userPerms, args, context);

As with *checkPermission()*, *getAnchorProperties()* is stubbed on object creation. Button authors are required to create an implementation and register it with their button object.

The implementation should examine the arguments passed in and create a string describing the anchor tag properties for their button.

file An object representing a file, as defined in buildobject(), located in

global.js.

userPerms An object representing the user's permission configuration, as defined

in userinfo(), located in global.js.

args An associate array containing any extraneous arguments Style authors

wish to pass to button authors. House Style for example, passes an Fref object (defined in *global.js*), which button authors can use to

generate mouseover code. Can be null.

context An integer describing context the button is being considered in.

registerCheckPermission(cpf)

The *registerCheckPermission()* function is used to register a new *checkPermission()* definition with the button object.

cpf A reference to a checkPermission() function implementation.

registerGetAnchorProperties(gapf)

The *registerGetAnchorProperties()* function is used to register a new *getAnchorProperties()* definition with the button object.

cpf A reference to a getAnchorProperties() function implementation.

• getHouseMouseOverProperties(args, msg)

The *getHouseMouseOverProperties()* function is a utility function which automatically generates house *mouseover* handlers, for use in <code>getAnchorProperties()</code> implementations.

args Associate array containing arguments passed from house Styles.

Typically, button authors will simply pass the args Array received in getAnchorProperties() directly into getHouseMouseOverProperties().

msg A string describing the message to be displayed by the mouseover

code.

WNButtonManager class

The WNButtonManager class is responsible for maintaining a list of registered buttons and handling button display requests from WebNative Styles. Button authors need only concern themselves with the button registration functionality. Style authors need only concern themselves with the writeButton() function. A button manager can have a maximum of 1024 buttons registered at one time.

WNButtonManager()

Button and Style authors should never overwrite the global button manager with a new instantiation. Doing so could potentially disable other third party buttons registered with the button manager.

addButton(button)

The *addButton()* function registers a button with the button manager.

button A reference to the button object to be added.

writeButtons(framedoc, file, userInfo, args, context);

The *writeButtons()* function loops through the list of registered buttons and writes each to an arbitrary document, given the user has permission and the button works in the current context.

framedoc A reference to the document in which the writeButtons() function

should write HTML. It is assumed the document object has already had

open() called on it.

file An object representing a file, as defined in buildobject(), located in

global.js.

userPerms An object representing the user's permission configuration, as defined

in userinfo(), located in global.js.

args An associative array containing arbitrary arguments defined by Style

authors. Can be null.

context An integer describing the current action context.

Usage and examples

Creating new buttons is a four step process:

1. Determine whether to make the button global or user-specific. Create a file in the appropriate location.

Example:

Global button definition:

UNIX: /usr/etc/webnative/styles/filebuttons/uploadbutton.js

Windows: C:\Program\Files\Xinet\WebNative\Bin\styles\filebuttons\uploadbutton.js

User-specific button definition:

 $\textit{UNIX:} \qquad \textit{/var/adm/webnative/username/filebuttons/uploadbutton.js}$

Windows: C:\Program\Files\Xinet\WebNative\Admin\username\filebuttons\uploadbutton.js

2. In that new file, create a button object to represent your button.

Example:

 Define and attach checkPermission() and getAnchorProperties() functions to your button object.

Example:

```
function uploadCheckPermission(file, userInfo) {
   return (file.isadir && userInfo.upload);
}
function uploadGetAnchorProperties(file, userInfo, args, context)
{
```

```
return "HREF='/webnative/upload?" + file.path + "'
    TARGET='uploadWindow'";
}
myButton.registerCheckPermission( uploadCheckPermission );
myButton.registerGetAnchorProperties( uploadGetAnchorProperties );
```

4. Register your button with the button manager.

Example:

```
wnButtonManager.addButton(myButton);
```

Please see the file, /usr/etc/webnative/styles/filebuttons/xinetsample.js (UNIX) or C:\Program Files\Xinet\WebNative\Bin\styles\filebuttons\xinetsample.js (Windows), for a complete example of a working button.

Customizing WebNative Styles

You certainly are not limited to the Styles and plugins which ship with WebNative. This chapter provides an introduction to customizing WebNative Styles. "The WebNative Basket API" on page 16 provides information about plug-in development.

With some knowledge about JavaScript, you can make copies of and modify any of the existing Styles or create entirely new ones of your own. JavaScript is a relatively simple language, and with a little reading you will probably understand what is going on. Even if you can't program, you can edit the strings for localization without a problem. You can also edit some (but not all) of the Style files with a GUI editor. Please be careful, however, to test that everything functions correctly afterwards.

Overview

Organization of Style folders

Inside the /usr/etc/webnative/styles folder on Unix systems and the C:\Program Files\Xinet\WebNative\Bin\styles on Windows systems, you will find subfolders for the various WebNative actions. Inside each action folder, you will find various subfolders for available "styles" that may be applied to that action. While the Styles you see initially will be useful in their own rights, they are mainly intended as starting points for your own customizing endeavors.

How Styles work

After you have defined your Styles, you will use the *WebNative Administration Style Configuration* GUI to assign them to end users. Refer to "Configuring a user's styles" in the *WebNative Administration Guide* for more information about assigning existing Styles. After you select a Style for a user, and that user performs the action indicated (for example, *upload*), the *WebNative Style Manager* figures out how to present things to the user by looking at the files listed in <u>Table 3-1 on page 29</u>, in the order in which the table lists them.

The purpose of the hierarchy of files is to allow customizing of the whole interface with as little work as possible. Table 3-1 also shows where the files are located and their purposes. *Keep in mind that any time there are conflicts in settings, the settings in the last-read file will rule.*

Table 3-1 Style files (in order of inclusion)

File	Location	Contents
global.js	UNIX: /usr/etc/webnative/styles/ Windows: C:\Program Files\Xinet\WebNative\Bin\styles	Global JavaScript from Xinet useful in all actions and Styles
language/style.js	UNIX: /usr/etc/webnative/styles/ Windows: C:\Program Files\Xinet\WebNative\Bin\styles\	Contains the Eng- lish version of strings
action/style.js	UNIX: /usr/etc/webnative/styles/ Windows: C:\Program Files\Xinet\WebNative\Bin\styles\	JavaScript from Xinet useful in the particular action
language/style/lan- guage.js	UNIX: /usr/etc/webnative/styles/ Windows: C:\Program Files\Xinet\WebNative\Bin\styles\	Contains transla- tions of the English strings into the selected language
local.js	UNIX: /var/adm/webnative Windows: C:\Program Files\Xinet\WebNative\Admin\	Local JavaScript useful in all Styles. Can override global.
user.js	UNIX: /usr/adm/webnative/user/ Windows: C:\Program Files\Xinet\WebNative\Admin\user	JavaScript specific to the user
header.html	UNIX: /var/adm/webnative/user Windows: C:\Program Files\Xinet\WebNative\Admin\Web- Native\user\	The user's header file
actionstyle. html	UNIX: /usr/etc/webnative/styles/action/style Windows: C:\Program Files\Xinet\WebNa- tive\Bin\styles\action\style	Action and style-specific information
trailer.html	UNIX: /var/adm/webnative/user Windows: C:\Program Files\Xinet\WebNative\Admin\user	The user's trailer

Hierarchy for assigning Styles to users

It is easy to assign Styles for users using the *Style Configuration* window. If you set up a new user without specifying Styles, however, the *Style Manager* will check to see if you've defined "default Styles" for new users. (You do this by setting Styles for the user *Default* in the Style Configuration GUI.) If you have not set up default Styles, the *Style Manager* will use the *classic* Style for each action. Of course, any Styles you do assign to a user will over-write all defaults.

Where customized Styles belong

It is very important that when you want to create a custom Style that you work on a copy of an existing Style, not the original Style itself. If you modify an original Style provided by Xinet, your changes will be destroyed next time you install a new version of WebNative. If you want to change parameters inside the *global.js* file, you need to copy them into the *local.js* file and modify them there. Since the local files are read after the global files, definitions in them will override ones in the global file.

For example, if you wanted to localize the button names, you would find the code that displays the buttons in *global.js*, and copy it into *local.js*. To complete this example, you would edit *local.js* to change the button names. If on the other hand you want to modify a entire Style for an action, copy the entire directory for the Style into a new directory, for example:

```
cd uploads
cp -pr classic formsubmit
```

Then modify all of the files in *formsubmit* to suit your needs. Miraculously, you have created a brand new Style which you can assign to any user.

When copying an existing Style, be sure to copy all the "support" files used by the Style. Much like Styles, these files will also be overwritten by upgrades. For example, all of the *house* Styles use JavaScript from the file */var/adm/webnative/images/house/common.js*. When copying a *house* Style, be sure to make a copy of the *common.js* file and direct your Style to read from this copy.

WebNative actions

WebNative ships with ten *actions*, each of which can be customized through Styles. The actions are described by the CGIs that implement them, including the calling syntax as described in "WebNative Suite CGIs" on page 33. The CGIs are responsible for gathering the correct JavaScript and HTML files, and defining a series of JavaScript variables for use by the Style. Descriptions of each action follow:

Table 3-2

action	Description
basket	The basket action controls the display of shopping baskets and is comprised of a collection of separate CGIs that control basket Styles. See page 77 and page 84 for more information.
browse	The <i>browse</i> action is responsible for displaying the contents of folders in WebNative, implemented by the <i>listdir</i> CGI. (See "Listing directories and volumes" on page 44 for details.) It receives an array of <i>files</i> from 0 to (numfiles - 1). Each files element is an object as returned by buildobject(). The object may have image structures and/or archive information. Files and directories (both online and archived) will be returned together. The array is sorted in a Mac-style sort by object name.

Table 3-2

action	Description
CSS	The <i>css</i> action is used to isolate all Cascading Style Sheets (CSS) properties in a central location. It enables a WebNative Suite Style author to apply a single set of CSS definitions to all WebNative users' sessions, enabling greater uniformity and cohesion between actions. Like the language and icon actions, it is included in the result stream for nearly every WebNative CGI and can be applied to all users, including <i>nativeadmin</i> .
imageinfo	The <i>imageinfo</i> action provides the interface for viewing all information about a file, and optionally changing the <i>Desktop Comments</i> field (keywords). To change the comment, this page must "post" a form containing a <i>comment</i> Form variable. See "Getting detailed image info" on page 60 for details.
language	The language Style applied to this action is used when displaying any text elements generated by WebNative for end-users. The language Style is special, in that the Style Manager always reads the language Style before other Styles. To create a language <i>Style</i> :
	1. Make a new subdirectory in the <i>language</i> directory named for the new language.
	2. Copy the file <i>style.js</i> in the language directory to the newly created subdirectory, giving it the appropriate name for the language: cp style.js <i>languagename</i> /language.js
	3. Edit languagename/language.js, removing the line that says var lang = new Object()
	4. Translate all of the strings in the file. When you define strings, most special non-alphanumeric characters will confuse the browsers, especially various quote symbols. You'll have to use the ISO Latin equivalents for the special characters. Refer to http://www.w3.org/TR/REC-html32.html if you need help finding the equivalency, or use a visual editor that understands HTML strings.
mview	The <i>mview</i> action (known as <i>quarkview</i> ^a in earlier versions of WebNative) allows end-users to preview various kinds of files in their browsers. The users can also follow image links within the files. With the database engaged, <i>mview</i> will also write preview information into the database. (You can do this "by hand" from the command line by running <i>synchvoltodb</i> (1M) on a directory. The <i>fpod</i> (1M) daemon will then call upon <i>mview</i> to write preview information to the database.)

Table 3-2

action	Description
mview (contd.)	The <i>mview</i> program operates on the following file types:
	 QuarkXPress documents on WebNative servers that were saved with WebNative XT 3.0 or later InDesign documents on WebNative servers that were saved with the WebNative ID plug-in (3 or later) PDF files on WebNative Suite servers Users can follow image links in PDF files that satisfy one of the following: They were created with the Xinet Annotator XT or Annotator ID plug-in. They contain OPI comments. On PDF files, <i>mview</i> either reads OPI comments or Xinet Annotator marks within the files. On other layout documents, the <i>mview</i> program parses the documents and reads out special "slugs" left by the XTs or the plug-ins. The XT and plug-in make preview images for each spread.
	"Showing QuarkXPress, PDF and InDesign file previews" on page 80 provides details
order	An <i>order</i> action presents an order form with specific details about a single image file, and allows users to download images in a format and size customized for their particular needs. Refer to "Custom-ordering images" on page 64 for the calling sequence to do the actual order.
search	The <i>search</i> Style is split into two parts, controlled by the files <i>searchquery.js</i> and <i>searchdisplay.js</i> . The <i>searchquery.js</i> file controls the part of the display where the user selects search criteria; the <i>searchdisplay.js</i> file controls the part of the display where search results appear. In general, the Style described by <i>searchdisplay.js</i> should be very similar to the user's <i>browse</i> Style to present a consistent interface; but, this is not a requirement. See "Searching" on page 47 for details.
toplevel	The <i>toplevel</i> action presents what is essentially the "welcome" screen the, starting point for all the other pages. It provides a list of the user's configured volumes. See "Entry point for WebNative — toplevel" on page 58 for details.
upload	The <i>upload act</i> ion controls uploading files from a user's environment to the server. It is available on volumes that have the <i>Allow Uploads switch</i> set to on. "Sending files to a WebNative server" on page 87 provides details

a. The $\it quarkview$ action remains in the distribution solely for purposes of backwards compatibility.

WebNative Suite CGIs

Introduction

WebNative Suite is comprised of CGI programs that are tied together to generate the WebNative environment. In many instances, for example, database integration, there may be reasons to call the CGIs individually. This document explains what the different CGIs do, how to call them, and what results they return. You should not need to refer to the information in this chapter unless you plan on building custom WebNative interfaces.

Architecture

The WebNative CGIs do not actually create images on the WebNative Suite server. They rely on the engine comprised of fpod(1M) and mkfpo(1)) to keep the various previews of images up to date. If an image source is missing or out of date, they will signal fpod(1) by calling dtrebuild(1M). The dtrebuild(1M) program will then send a packet to fpod(1M), which will schedule an update of the file and call mkfpo(1). The mkfpo(1) program will actually read the high-res image and generate the necessary previews. Depending on the file and options, some or all of the following preview images will be stored in the resource fork of the file for use by WebNative Suite:

- Custom Icon in Mac icon format (32x32 pixels)
- Small PICT preview (112x112 pixels)
- Small Web GIF or JPEG preview (112x112 pixels)
- 72 DPI or less PICT preview
- 72 DPI or less Web GIF or JPEG preview
- Selectable DPI EPSF or TIFF FPO image

In the list above, any image noted to be "GIF or JPEG" will be a JPEG, unless its source happens to be:

- Black and White
- Masked
- Clipped

If the image has any one of the three attributes listed above, it will be a GIF, because there is no way to represent the image correctly in JPEG.

The phrase "72 DPI or less" means that the image will be 72 DPI unless the user has constrained the absolute size of FPOs. In that case, the resolution may be lower to meet that constraint. In these cases, all three images types will have the same resolution.

Permissions

For the CGIs to work, three conditions must be met:

- 1. They must be passed a REMOTE_USER (in the environment) that is a configured WebNative user. Usually, this is done automatically by the Web browser and server.
- 2. The file being accessed must be on one of that user's WebNative volumes.
- 3. In addition, that user's volume must be configured to allow that operation. For example, the user might be restricted from downloading high-res images, in which case the *-high* flag would not work. Failure to authenticate will return an HTTP authentication error header.

Some common JavaScript variables

The following tables describes JavaScript variables which are common to more than one WebNative CGI:

Table 3-3 Common JavaScript variables

Variable	Definition
uinfo	The uinfo variable points to an object containing information about the current WebNative user. The following fields are contained in the uinfo object: • uinfo.user — contains the user's WebNative username. • uinfo.basket — if true, WebNative will allow the user to have a basket • uinfo.archives — if true, WebNative will allow the user to view archived files/folders • uinfo.iconview — if true, the user's view should default to icon (or nearest equivalent) view • uinfo.shortview — if true, the user's view should default to short (or nearest equivalent) view • uinfo.longview — if true, the user's view should default to long (or nearest equivalent) view • uinfo.showfpoinfo — if true, then WebNative will allow the user to view FPO information • uinfo.showdates — if true, WebNative will allow the user to view file dates. • uinfo.changecomment — if true, WebNative will allow the user to change Finder comments for a file • uinfo.highres — if true, WebNative will allow the user to view/download high-res files
	to upload files • uinfo.imgorder — if <i>true</i> , WebNative will allow the user to custom order high-res images.

Table 3-3 Common JavaScript variables

Definition

- uinfo.fileadm if *true*, WebNative will allow the user to move/copy/rename/delete files
- uinfo.defaultview contains the name of the view to which the user's view should default.
- uinfo.changepassword if *true*, WebNative will allow the user to change their own passwords.
- uinfo.primarygroup contains the name of the user's primary group. (It will contain the empty string if the user doesn't have a primary group.)
- uinfo.allownonimages if true, the user can download non-image files when high-resolution image download is disabled.
- uinfo.changekeywords if *true*, the user can modify WebNative Suite metadata according to his or her permission set.
- uinfo.showcomments if *true*, the user has permission to view the Finder comments associated with files.

files

The files variable is an array of objects, each describing a file somewhere on the server. Each file object is described by the following characteristics:

Note: In the following descriptions, i refers to any arbitrary object within the array.

- files [i] . name describes the name of the file
- files [i].path describes the full path to the file on the server
- files [i] .archive indicates whether this file is an archive. See the information about the archive field below for details.
- files [i] . comment describes the Finder comments associated with the file
- files[i].fileid describes the unique file ID number associated with the file in the WebNative Suite database. Does not exist for files on non-database-enabled volumes.
- files [i] .type describes the Macintosh 4-char file type for the file.
- files [i].creator describes the Macintosh 4-char creator for the file
- files [i] . length describes the size of the file (in bytes)
- files[i].isadir if true, then the file represented is a directory
- files [i] .inbasket if true, then the file represented is in the user's basket
- files [i] . cdate a JavaScript Date object describing the Macintosh creation date for the file

Contd...

Table 3-3 Common JavaScript variables

Definition

files
(Contd.)

- files [i] .mdate a JavaScript Date object describing the Macintosh modification date for the file
- files [i] . adate a JavaScript Date object describing the Macintosh access date for the file.
- files[i].isimage if *true*, the file is classified by WebNative as an image.

Example: Consider a file on the server with the path /RAID/ticket23/header.tif. The file object for this file would have

```
files[i] name = 'header.tif'
files[i].path = '/RAID/ticket23/header.tif'
files[i].type = 'TIFF'
```

All other fields would be set appropriately.

If the archive field of the file object is not false, undefined, or null, then it contains the following fields:

- files [i] .archive.name describes the name of the archive
- files [i] . archive . number describes which back-up of the file this object represents
- files[i].archive.date a JavaScript Date object describing when this file was backed up files[i].archive.offset an offset used by the archivepict CGI to retrieve the archived image.
- files [i] .archive.pict if *true*, then a picture accessible to the *archivepict* CGI is available for viewing
- files[i].archive.near_line if *true*, the file is near-line and may be restored without operator intervention.

Example: If the header tif had been backed up for the second time on July 31, 2001, it would have an archive object with the following values:

```
files[i].archive.number = 2
files[i].archive.name = 'header.tif'
files[i].archive.date = new Date ('July 31,
2001')
```

Depending on the image type and the user's permissions, file objects which correspond to images potentially have additional information. This additional information describes all "supporting" images WebNative Suite has made on the server

Table 3-3 Common JavaScript variables

Definition

Note: Even though a file is an image, there is no guarantee that any of the fields will be present. It is always a good idea to test them for existence before referencing them.

- files[i].highres describes the original high-res image
- files[i].fpo describes the FPO made of the high-res image
- files [i] .largeweb— describes the Web-ready preview of the image made by WebNative
- files [i] . smallweb— describes a scaled down version of the Web-ready preview made by WebNative
- files[i].custicon—describes a custom icon for the image, similar to Photoshop's preview icons.

Each of these support images is described by the following information. Note: In the following descriptions, support_image refers to any of the five support images described above.

- files[i].support_image.width describes the image's width
- files[i].support_image.height—describes the image's height
- files[i].support_image.resolution describes the image's resolution (in DPI)
- files[i].support_image.imagetype describes the image's file type
- files[i].support_image.colorspace describes the image's colorspace
- files[i]. support_image.length describes the image's size (in bytes).
- files[i].support_image.dbfield—the WebNative Suite database file ID for the associated image file.

Example: If header.tif was 640 pixels by 480 pixels, and had a resolution of 72 DPI, it would have a highres object with the following values:

```
files[i].highres.width = 640
files[i].highres.height = 480
files[i].highres.resolution = 72
All other fields would be set appropriately.
```

numfiles

The files array is, typically, much bigger than the actual number of items within it. The numfiles variable describes how many files are actually represented in the files object. This variable should be used in place of files.length.

 Table 3-3
 Common JavaScript variables

Variable	Definition
dir	The dir variable represents the current directory being browsed, searched, etc. It is described by the following fields: • dir.path — describes the full path to the directory on the server • dir.htmlpath — an HTML-friendly, printable path in Macintosh path syntax • dir.name — the name of the directory • dir.inbasket — if true, then the directory is currently in the user's basket • dir.archive — has the same characteristics as files[i].archive Example: The directory /RAID/ticket23 would have a dir object with the following values: dir.htmlpath = 'RAID:ticket23:' dir.name = 'ticket23' dir.path = '/RAID/ticket23' Other values would be set accordingly.
volumes	The volumes variable points to an array of objects describing the volumes available to the user. Each object is described as follows. Note: In the following descriptions, <code>i</code> is merely a place holder, and refers to any arbitrary object within the array. <code>volume[i].path</code> — the full path to the volume on the server <code>volume[i].name</code> — an HTML-friendly name for the volume, as defined by the WebNative administrator <code>volume[i].uinfo</code> — a <code>uinfo</code> object, as described in "Common JavaScript variables" on page 34, detailing the user's permissions for the given volume.
numvols	The numvols variable contains the number of volumes available to the user for browsing and/or searching.
The following tv	wo variables only pertain to the WebNative Suite database.
keywords	The keywords variable points to an array of objects representing WebNative Suite database fields. Each database field is described by the following characteristics. Note: In the following descriptions, i refers to any arbitrary object within the array. • keywords[i].id—a unique ID number for this field • keywords[i].order—the rank in which the field should be displayed • keywords[i].editable—if true, a user can modify this field if they have the permission

keywords[i].name — the printable name for this fieldkeywords[i].type — the field type according to the database

Table 3-3 Common JavaScript variables

Definition

- keywords [i] . size the size of the field in the database, specified in 1-byte characters.
- keywords [i].cols the number of columns the field would have if displayed
- keywords [i] . rows The number of rows the field would have if displayed.
- keywords [i] . precision for floating point fields, the number of decimal places to use
- keywords [i] . flags general purpose information storage area
- keywords [i].display information regarding how to display to the keyword
- keywords [i] . hidden if *true*, then this field should not be shown to the user
- keywords [i].limited if true, then only a limited number of values can be used in this field
- keywords [i] . values if limited is *true*, then this points to an array of values which can be used for this field
- keywords [i] . fixed if true, then the field can not be edited
- keywords [i] . indexflag if true, the field is indexed.
- keywords [i] .permflags —if non-zero, the field is editable.
- keywords [i] . htmlvalue contains the same data as keywords [i] value, albeit guaranteed to be in a displayable encoding.
- keywords [i] . htmlvalues contains a displayable list of potential values for the metadata in question.
- keywords [i] . dbvalues contains a list of potential values for the metadata in question, as they appear in the database.
- keywords [i] .valueflag general purpose flag for keyword values
- keywords [i] . value the current value of this field for a given file

Note: This variable is only set when it is produced by the image-info CGI or any other CGI that deals with only one file.

Example: Consider a limited database field with ID = 17 and a value set of "queried," "in process" and "done." It would have a keyword object with the following values:

```
keyword[i].id = 17
```

keyword[i].limited = true

keyword[i].values = newArray(3)

keyword[i].values[0] = 'Queued'

keyword[i].values[1] = 'in process'

keyword[i].values[2] = 'done'

Other values would be set appropriately.

 Table 3-3
 Common JavaScript variables

Variable	Definition
numkeywords	The numkeywords variable describes how many keywords are actually represented in the array pointed to by keywords. This variable should be used in place of keywords.length, as the array pointed to by keywords might be bigger than the actual number of keywords within it.

Displaying icons

With all WebNative CGIs, the *icons* action is performed every time a WebNative CGI is invoked. The action prints information about where WebNative Style files should look for WebNative icons, as well as providing information about how to display those icons. *Note*: Only icons drawn with the *putwnicon()* JavaScript function will respond to the icons action. Icons placed any other way may not respond as expected.

On UNIX systems, the icons rely on:

/usr/etc/webnative/styles/icons/style/icons.js

and reside in the directory

/var/adm/webnative/images/style.

The equivalent files on Windows systems reside in:

C:\Program Files\Xinet\WebNative\styles\icon\style\icons.js

C:\Program Files\Xinet\WebNative\Admin\images\style.

Arguments:

Not applicable

Corresponding HTML files:

(where style can be classic, buttons, smallbuttons, or house)

Corresponding HTML files:

(where style can be classic, buttons, smallbuttons, or house)

Table 3-4 Displaying icons

Name	Description	Classic	Buttons	Small buttons	House
wn_basket.gif	basket icon	\$	\$	\$	Ħ

Table 3-4 Displaying icons

Name	Description	Classic	Buttons	Small buttons	House
wn_basketchecked. gif	checked bas- ket icon	₩	*	\$	Ħ
batchapply	batch key- word apply icon				<u> </u>
wn_browse.gif	icon represent- ing browse action	6	<u></u>	<u></u>	Ħ
changepass- word.gif	user change password and sets prefer- ence for icons				
changeuser.gif	changeuser icon				12
wn_filemgr.gif	file manager icon	8		v v	
wn_fmcopy.gif	file manager copy icon	23	2 3	23)	
wn_fmmove.gif	file manager move icon	2	*		Ħ
wn_fmtrash.gif	file manager trash icon	23	2 -3	23	

Table 3-4 Displaying icons

Name	Description	Classic	Buttons	Small buttons	House
wn_fmcancel.gif	file manager cancel icon				0
wn_folder.gif	folder icon				Ø
wn_high.gif	download high-res icon	1	1	1	\rightarrow
wn_home.gif	toplevel action icon	(1)	(i)		•
wn_info.gif	imageinfo action icon	i	i	i	i
wn_linkedfiles.gif	view linked files icon		噐		
wn_low.gif	download FPO icon	P	FPO	FP0	~ *
wn_nearline.gif	nearline icon	NEAR LINE	NEAR LINE	NEAR LINE	(green)
wn_nextpage.gif	next page of multipage preview				>
wn_offline.gif	offline icon	OFF- LINE	OFF- LINE	OFF- LINE	

Table 3-4 Displaying icons

Name	Description	Classic	Buttons	Small buttons	House
wn_order.gif	custom image order icon				
wm_prevpage.gif	previous page of multipage preview				<
wn_promote.gif	make work- ing-version icon	^	*	^	^
wn_qmark.gif	question mark icon	②	◈	②	?
wn_search.gif	search action icon	Q)	@	@	Q
wn_stream.gif	view file icon				~■
wn_upload.gif	upload action icon	•	•	•	€
wn_versions.gif	show versions icon	<\$>	<\$	<\$>	<⊕>>
wn_wrench.gif	configuration icon	8	8	�	٩

JavaScript variables:

NOTE: Unlike other WebNative Styles, the *icons* action does not automatically print the following variables. They must be *statically initialized* in the *icons.js* file. Additionally, each image shown above must be present in the new icon Style. If not all are present, incorrect behavior should be expected.

• var wn icondirpath

The wn_icondirpath is a string representing the path where WebNative should look for icon files. This path must be specified relative to the top-level WebNative image directory, and must be followed with a trailing forward-slash. For example, to specify the path /webnativedoc/images/mybuttons, one should initialize wn_icondirpath with the value mybuttons/.

• var wn iconwidth

The wn_iconwidth variable should be initialized with a string value specifying the width of the icons contained within the directory specified by wn icondirpath.

· var wn iconheight

The wn_iconheight variable is similar to the wn_iconwidth variable, only it specifies the height of the icons rather than their width.

Accepted Form variables: Not applicable.

Listing directories and volumes

On UNIX systems, /usr/etc/webnative/listdir
On Windows systems, C:\Program Files\Xinet\WebNative\Bin\listdir.exe

The *listdir* CGI browses a directory on a WebNative volume, gathers information about its contents, and prints HTML which displays the contents. Additionally, it will provide information about files which have been backed up from that directory with the FlashNet archiving software. Essentially, it is a front-end for browsing WebNative file systems.

The *listdir* program also implements the *toplevel* action. It will perform *toplevel* if no path is supplied. If a path is supplied, it will perform *browse*. For backwards compatibility, the *searchengine* CGI also performs the *toplevel* action when called with no arguments (or the optional -t)

Command summary:

```
listdir [-q] [-f] [-t] [-c pagecount] [-s start]
[-u username] [-b username] [-nohead] [-nofoot] [-nosrc]
[-style style] [-i pathid] [-D] [-dir depth] [-cust c] [-N]
filename
```

The table below provides details about optional *listdir* arguments:

 Table 3-5
 listdir operation arguments and variables

Argument	Definition
-d	The -q argument specifies that listdir should operate in "quick" mode. In quick mode, support image information, including previews, FPOs, custom icons, etc., is not gathered for image files.
-f	If the -f argument is specified, the listdir CGI will print its support HTML rather than its frameset, provided the frameset exists. If the frameset exists and the -f argument is omitted, the frameset will be printed. If the frameset does not exist, the -f argument will have no effect.
-t	If the $-t$ argument is the only specified, then $listdir$ will perform the $toplevel$ action.
-c pagecount	If the -c argument is specified, then <i>listdir</i> will only display pagecount <i>number</i> of files.
-s start	If the -s argument is given, then listdir will start listing files only after it has skipped start number of files.
-u username	The -u argument allows a user to re-login as a different user. In order to work, the username provided must be the same as the current user. Any other username will have no effect.
-b username	The -b argument forces a user to log in as the username specified. Any other username will result in an "Unauthorized Access" error.
-nohead	If -nohead is given, then the user's <i>header.html</i> , stored in his or her WebNative user directory, will not get printed.
-nofoot	If -nofoot is given, then the user's <i>trailer.html</i> , stored in his or her WebNative user directory, will not get printed.
-nosrc	If -nosrc is given, then browse.html will not be printed.
-style style	The <i>listdir</i> CGI can dynamically change <i>Styles by</i> specifying the <code>-style</code> argument and the name of the <i>Style</i> to use.
−i pathid	With the database enabled, if the unique <i>path ID pathid</i> for a path is known before invoking <i>listdir</i> ; it can be passed in with the -i argument. This eliminates the <i>path ID</i> lookup that would otherwise occur, were the argument not supplied.
-D	Instruct <i>listdir</i> to send WebNative Suite debugging information to Apache's error log.

 Table 3-5
 listdir operation arguments and variables

Argument	Definition
-dir depth	This variable instructs listdir to browse subdirectories beginning at the directory depth.
-cust c	The $-cust$ flag is used to initialize the "custom" javascript with the variable value c .
-N	If present sets the <i>nonav</i> javascript variable to <i>true</i> .
filename	The name of the directory about which to gather information.

The following are JavaScript variables:

files numfiles uinfo dir	Please see the "Some common JavaScript variables" on page 34 for information regarding these variables.
filecount	The filecount variable is similar to the numfiles variable, except it does not account for directories or hidden files.
pagecount	The pagecount variable reflects the -c pagecount value passed in. It represents how many files listdir actually returned.
startindex	The startindex variable reflects the -s start value passed in. It represents how many files were skipped before listdir actually started printing file information.
endindex	The endindex variable is equal to zero if startindex plus pagecount is greater than the number of files in the directory. If not, then it is equal to startindex plus endindex.
arrayIndex	If the $-dir$ argument was given upon invocation, then $arrayIndex$ will be set to I .
custom	The custom variable will be equal to the number passed in via the -cust argument.
files[i].hasversions	If <i>true</i> , then versions of the file exist on the server.
files[i].numpreviews	If defined, indicates the number of small Web previews available for the given file.

Table 3-5 listdir operation arguments and variables

Argument	Definition
dirpagecount	The dirpagecount <i>variable reflects the</i> -dc dircount value passed in. It represents how many directories <i>listdir</i> actually returned.
dirstartindex	The dirstartindex variable reflects the -ds dirstart value passed in. It represents how many directories were skipped before <i>listdir actually</i> started printing directory information.
filehints	Array of objects describing files not included in the files array. Each object has a "begin" and "end" member variable, which describe a "chunk" of files defined by filecount and startindex.
dirhints	Array of objects describing directories not included in the <i>files</i> array. Each object has a "begin" and "end" member variable, which describe a "chunk" of directories defined by directories and directories.
dircount	Total number of paths passed to the CGI for multi-directory searching.
nonav	If <i>true</i> , the style should not display the typical WebNative Suite navigation buttons like <i>Search</i> , <i>Upload</i> , and so on.
Accepted Form variables:	
	None

Corresponding HTML files

On UNIX systems:

- /usr/etc/webnative/styles/browse/style/browse.html
- /usr/etc/webnative/styles/browse/style/frameset.html (optional)

On Windows systems:

- C:\Program Files\Xinet\WebNative\Admin\styles\browse\style\browse.html
- C:\Program Files\Xinet\WebNative\Admin\styles\browse\style\frameset.html

Searching

On Unix systems, $\/\$ usr/etc/webnative/searchengine On Windows systems, $\/\$ C:\Program Files\Xinet\WebNative\Bin\searchengine.exe

The *search* action is implemented via the *searchengine* CGI. The *searchengine* CGI will recursively traverse a WebNative-accessible directory and search for files which match user-specified criteria. It can also search through offline files.

Command Summary:

```
searchengine [-t] [-f] [-u] [-b] [-d 1|2|3] [-nohead]
[-nofoot] [-nosrc] [-style style] [noarch] [nokey] [noimg] [-D]
[-nodesc] [dir path [-dir path ...]] [-max int]
[-full] [allvols] [-sort] filename
```

The table below provides details about *searchengine* arguments:

 Table 3-6
 searchengine operation arguments

Argument	Definition
-t	If the -t argument is present, then searchengine will ignore all other options and perform the toplevel action. "toplevel operation arguments" on page 59 for details.
-f	If the -f argument is specified, the searchengine CGI will print its support HTML rather than its frameset, provided the frameset exists. If the frameset exists and the -f argument is omitted, the frameset will be printed. If the frameset does not exist, the -f argument will have no effect.
-u	The -u argument allows a user to re-login as a different user. In order to work, the username provided must be the same as the current user. Any other username will have no effect.
-b	The -b argument forces a user to log in as the username specified. Any other username will result in an "Unauthorized Access" error.
-d 1 2 3	The -d option is used to specify whether or not searchengine searches in online files only (1), offline files only (2), or both (3). If the selectedvol form variable is submitted to the CGI, it will override the value specified by the -d flag.
-nohead	If -nohead is given, then the user's header.html, stored in his or her WebNative user directory, will not be printed.
-nofoot	If -nofoot is given, then the user's trailer.html, stored in his or her WebNative user directory, will not be printed.
-nosrc	If <code>-nosrc</code> is given, then searchquery.js and searchdisplay.js will not be printed.
-style style	The searchengine CGI can dynamically change Styles by specifying the -style argument and the name of the Style to use.
-noarch	Instructs the searchengine CGI to suppress printing of archive information.

 Table 3-6
 searchengine operation arguments

Argument	Definition
-nokey	Instructs the searchengine CGI to suppress printing of keyword information.
-noimg	Instructs the searchengine CGI to suppress printing of preview information.
-D	Instructs the searchengine CGI to log WebNative Suite debugging information to Apache's error log.
-nodesc	Forces the search query to only search the toplevel volume
-dir path [-dir path]	Instructs the searchengine CGI to search multiple volumes.
-max int	Limit the number of query matches to int in two instances:
	If it is less than the last value for max matches POSTed to the searchengine CGI
	or
	• If no value has been POSTed to the CGI, it is less than the default value of 12
-full	If a user has access to all volumes in the database, <code>-full</code> can be used in place of directory args to search the entire database. Users who do not have full access will only see results from volumes to which they have access.
allvols	Substituting the allvols token for a path has the same effect at the -full switch

 Table 3-6
 searchengine operation arguments

Argument	Definition
-sort	This flag causes the search results to be sorted by the WebNative Suite database; i.e., not according to Apple's standard sorting scheme. (Essentially the difference is that the old sort will count numbers as separate letters whereas the Apple sort will actually assess the "value" of the number; e.g., the Apple sort would put file_088 after file_1 because the numeric value of 088 is greater than 1.)
	The <code>-sort</code> flag will also sort based on the full result set (instead of sorting within the subset of files that the query finds first). This may cause queries to become very slow in returning results if you have a large database. In SQL terms <code>-sort</code> causes the use of the following condition, <code>ORDER BY FileName</code> to be appended to the end of the query, instead of a simple <code>LIMIT XX</code> in the regular case.
	In order to use the <code>-sort</code> flag, the Style must be edited to include the flag where it sets the submit target to <i>searchengine</i> . The <code>-sort</code> argument has no effect on systems which are not running WebNative Suite database. Xinet introduced this argument solely for use with custom Styles. Styles that ship with. WebNative Suite do not use this sorting mechanism.
filename	The full path to the directory at which searches are rooted.

JavaScript variables

dir	Please see the "Some common JavaScript variables" on page 34 for
uinfo	information regarding the above variable.
keywords	
files	Note: The Numkeywords variable, while capitalized, has the same
numfiles	meaning as numkeywords on page 34.
Numkeywords	meaning as namkey words on page 54.

 Table 3-6
 searchengine operation arguments

Argument	Definition
Pathtype Filetype Filetypelogic Maxmatches Selectedvol Datetime ^a Datetype Datewhence	Each of these JavaScript variables corresponds to a form variable, described below in the Form Variables subsection of this table. Each JavaScript variable contains the last value submitted to the searchengine CGI for the corresponding form variable. For example, if the form variable <i>pathtype</i> (notice the lower case) was submitted with the value 1, then the JavaScript variable Pathtype will have the value 1. These "mirror" variables are provided to enable the search interface to maintain its state across form submissions.
Datelogic Checkdate ^b Exactmatch	
Nocasematch Comment Commentlogic	
Skipcount Filename	
Filenamelogic Filenamehasany	
Commenthasany Pathsearchtype	

a. Note: corresponds to dateyear, datemonth, dateday

b. Note: corresponds to dateon

Table 3-6 searchengine operation arguments

Definition Argument searchfield The searchfield variable, if not null, zero, or undefined, points to an array of objects representing how the keyword fields were searched during the last form submission. Each object is defined by the following fields: searchfield[i].type — the database field's type searchfield [i] . string — the search string (corresponds to dbsearchkeywordN) searchfield [i] . flag — the type of search that was done (corresponds to dbsearchflagN) searchfield[i].casesense — whether or not the search was case sensitive (corresponds to dbsearchcaseN) searchfield [i]. logic — how the search is combined with other results (corresponds to dbsearchlogic) searchfield[i] .not — whether or not the search was inverted (corresponds to dbsearchnotN) searchfield [i] . multi — whether or not a multi-word search was done (corresponds to dbsearchmultiwordN) $\mathtt{searchfield}\,[\,\dot{l}\,]$. any — whether or not a "has any" search was done (corresponds to dbsearchhasanyN) Example: If dbsearchkeyword11 were submitted with the value "cover.art" and dbsearchmultiword11 were submitted with the value "1," then the eleventh object of the searchfield object would have the following values: searchfield[11].string = "Cover Art" searchfield[11].multi = 1 Other fields would be set appropriately. searchall If searchall is not null, zero, or false, then it points to an object describing the dbsearchall set of form variables. It is described by the same variables as a searchfield [i] object. morematches If morematches is true, then more matches for the previously submitted search criteria exist. These matches can be retrieved by re-submitting the same search criteria with an appropriate value for skipcount. Example: If 100 matches were available, but skipcount were 23 and morematches 12, then morematches would be true. didsearch If didsearch is true, then the searchengine CGI performed a search of some kind. A "search" is defined as performing a new search, getting more results for a set of search criteria, or getting previous results for a set of search criteria.

 Table 3-6
 searchengine operation arguments

Argument	Definition
totalmatches	If you are running WebNative database, the totalmatches variable contains the total number of matches for the search criteria specified. If the display of results is limited, the variable contains the number of files actually displayed plus one. If you are not running the database, totalmatches will always = 0 .
Nodescend	Has a value of true if the -nodesc flag was given.
UseDB	If <i>non-zero</i> , the WebNative Suite database is enabled and will be used to perform searches.
FilenameFullText	If <i>non-zero</i> , then file names are Full-Text indexed in the WebNative Suite database.
CommentFullText	If <i>non-zero</i> , then finder comments are Full-Text indexed in the WebNative Suite database.
Allkeysfulltext	If <i>non-zero</i> , then all metadata values are Full-Text indexed in the WebNative Suite database.
volumes	An array of buildvol objects, described in "Entry point for WebNative — toplevel" on page 58.
numvols	An integer indicating the number of objects in the volumes array.

Accepted Form variables:

dir	The dir form variable specifies the directory within which the <i>searchengine</i> CGI should root its searches.
pathtype	The pathtype form variable specifies whether to include files, directories, or both in the search results (aka. File/Folders). Legal values include: 1 (include only files), 2 (include only directories), or 3 (include both). When used with other logic options, pathtype and selectedvol will always be tested first, regardless of the order in which the criteria have been submitted.
filetype	The filetype form variable specifies a specific file type, which all files must be in order to be included in the search results. Legal values for filetype include: 1 (for all file types), -1 (for all images), -2 (for all non-images), -3 (for all PDF files), -4 (for all QuarkXPress files), or a four-character Macintosh filetype string (like JPEG or GIFf).

 Table 3-6
 searchengine operation arguments

Argument	Definition
filetypelogic	The filetypelogic form variable specifies whether the filetype described above must be matched in order for a file to be included in the search results. If it is set to 0 then filetype must be matched to be included in the search results. If not, then a file will still be included if it matches other criteria. (For those familiar with boolean searching, 0 corresponds to <i>AND-ing</i> the filetype to the search criteria and 1 corresponds to <i>OR-ing the</i> filetype to the search criteria). Note: This variable only works with WebNative database enabled. In WebNative, the presence of a value for filetype implies that it must be matched in all files.
filenamelogic	This form variable is similar to filetypelogic. It specifies whether the file name must be matched in order for a file to be included in the search results. If set to \mathcal{O} (the default value) an AND value will be used; if set to \mathcal{I} , an \mathcal{OR} value will be used.
maxmatches	The maxmatches variable instructs the CGI to return a maximum number of matches for the given query. Although more may be available, only maxmatches will be printed. The rest can be retrieved by resubmitting the form with an appropriate skipcount. Legal values are integers.
selectedvol	The selectedvol variable indicates whether files/folders in offline or online volumes are included in the search results (aka. Search In). Legal values include: 1 (online files only), 2 (offline files only), 3 (online and offline files). When used with other logic options, selectedvol and pathtype will always be tested first, regardless of the order in which the criteria have been submitted.
dateon	If the dateon variable is present and has a non-null value, then the searchengine CGI will perform date matching, which is driven by criteria described below.
datetype	The datetype variable specifies which date to perform date searching on. Legal values include: 1 (creation date), 2 (last modification date), and 3 (last access date).
datewhence	The datewhence variable describes whether to search before, on, or after the date specified. Legal values include: 1 (newer), 2 (older), and 3 (same).
dateyear	Specifies the year to match against (use four digits, as in 2001)
datemonth	Specifies the month to match against (any whole number 0 – 11)
dateday	Specifies the day to match against (any whole number $1-31$)
datelogic	Similar to filetypelogic, only with respect to date matching.

 Table 3-6
 searchengine operation arguments

Argument	Definition
exactmatch	If exactmatch is specified, then all criteria must be matched exactly (i.e. the string <i>foo</i> will only match <i>foo</i> and not things like <i>foobar</i> nor <i>so much foo</i>).
comment	<i>The</i> comment variable specifies a string with which to search Finder comments.
commentlogic	The commentlogic variable is similar to filetypelogic, only with respect to comment matching. If set to 0 (the default value) an AND value will be used; if set to 1, an OR value will be used.
nocasematch	If the nocasematch variable is submitted, then case will be ignored when matching strings.
skipcount	The skipcount variable specifies how many matches the <i>searchengine</i> CGI should skip before printing results.
pathsearchtype	Indicates how to search filenames. With a value of <i>I</i> , the filename argument may match anywhere in the searched filename. With a value of <i>2</i> , the filename argument must match the beginning of the searched filename.
filenamehasany	With a value of <i>I</i> , the filename argument will be split into tokens and a Full-Text search will be performed on the searched filenames. A filename Full-Text index must be present on the server for this field to have any effect.
actionsearch	Submitting the actionsearch variable will cause the searchengine CGI to search the filesystem rooted at the path stored in the dir form variable, using the specified criteria. It will start printing the first matches it finds after skipping skipcount number of files and will print maxmatches number of matches.
actionmore	Submitting the actionmore variable has a similar effect as actionsearch, only the CGI will start printing after it has skipped skipcount <i>plus</i> maxmatches number of files.
actionless	Submitting the actionmore variable has a similar effect as actionsearch, only the CGI will start printing after it has skipped skipcount <i>minus</i> maxmatches number of files.
actionclear	Submitting the actionclear variable will reset all JavaScript variables to default values.

Table 3-6 searchengine operation arguments

Argument

Definition

The following Form variables only work with the WebNative Suite database. The letter N following each is merely a placeholder. It should be replaced with the numerical field ID for the keyword to be searched.

dbsearchflagN

The dbsearchflagN determines the type search that is performed with the string stored in dbsearchkeywordN. Legal values are 0 (the field contents must contain the search string), 1 (the field contents must be exactly equal to the search string), 2 (the field contents must start with the search string), 3 (the field contents must end with the search string), and 4 (the search string is treated as a regular expression).

dbsearchdateyearN
dbsearchdatemonthN
dbsearchdatedayN
dbsearchdatehourN
dbsearchdatenuteN
dbsearchdatenuteN
dbsearchdatesecsN

If the database field is a date type, it can be searched by inserting values in the above variables, rather than using the <code>dbsearchkeywordN</code> variable.

dbsearchdateyearN can be any 4-digit number dbsearchdatemonthN can be any integer 0-11 dbsearchdatedayN can be any integer 1-31 dbsearchdatehourN can be any integer 0-23 dbsearchdatenuteN can be any integer 0-59 dbsearchdatesecsN can be any integer 0-59

dbsearchkeywordN The dbsearchkeywordN form variable contains the search string with which to search database field N.

dbsearchlogicN

The dbsearchlogicN form variable is similar to the filetypelogic variable, only with respect to database field N.

dbsearchnotN

If the dbsearchnotN variable is set to 1, then the CGI will return everything whose keyword *N value* doesn't match the search string in dbsearchkeywordN. If it is 0 or is omitted, then it behaves normally.

dbsearchmultiwordN

This argument has been superseded. Use dbsearchhasanyN, instead.

dbsearchhasanyN If dbsearchhasanyN has a value of 1, then the CGI will consider the presence of any word within the search string as a match. This means, for example, that files could contain keyword1 or keyword2 or keyword3(If it is 0 or omitted, then the CGI matches normally.) Continuing the example, if dbsearchhasanyN has a value of 2, the files must contain keyword1 and keyword2 and keyword3 and, thus returns fewer results.

 Table 3-6
 searchengine operation arguments

Argument	Definition
dbsearchhase- achN	When set to 1 provides the same thing as dbsearchhasany 2
filename- hasany <i>N</i>	The values for $$ N are the same as for dbsearchhasanyN. When set to 2, it provides the same as filenamehaseach 1.
${\tt commenthasany}N$	The values for N are the same as for dbsearchhasanyN. When set to 2, it provides the same as commenthaseach 1.
dbsearchregexp <i>N</i>	If dbsearchregexpN has a value of 1, then the search string within dbsearchkeywordN may contain a full regular expression instead of merely a search string.
dbsearchcaseN	If dbsearchcaseN has a value of 1, then searches will be case sensitive. If it is 0 or is omitted, then searches will be case insensitive.
dbsearchall*	If one wants to search all database fields with the same criteria, then one should use the <code>dbsearchall*</code> pattern instead of the <code>dbsearch*N</code> pattern. For example, to search all database fields for the word <i>foo</i> , one would search using the <code>dbsearchallkeyword</code> variable with a value of <code>foo</code> .
dbsearchtypeN	Should contain the metadata type found in the javascript keyword object. This field is used to optimize searches for each data type.
dbsearchhasany <i>N</i>	With a value of <i>I</i> , this field will instruct <i>searchengine</i> to perform a Full-Text search using the <code>dbsearchkeywordN</code> value. The metadata field being searched must have a Full-Text index in the WebNative Suite database for this field to have any effect.
dbsearchall- withfile	If dbsearchallwithfile is <i>non-zero</i> , <i>searchengine</i> will include filenames in its "search all" query.
dbsearchall- withcomment	If dbsearchallwithcomment is <i>non-zero</i> , <i>searchengine</i> will include file comments in its "search all" query.
custquery_X custquerylogic_X	Provides a search cause type that allows users to enter a custom SQL search clause using columns in the "file" (e.g., FileName, Creator, etc.) and keyword1 table (e.g., Field123, etc.). Refer to "About custom queries" on page 58 for more information.

Corresponding HTML files:

- On UNIX systems
- /usr/etc/webnative/styles/search/style/searchquery.js
- /usr/etc/webnative/styles/search/style/searchdisplay.js
- /usr/etc/webnative/styles/search/style/frameset.html (optional)

On Windows systems

- C:\Program Files\Xinet\WebNative\Admin\styles\search\style\searchquery.js
- C:\Program Files\Xinet\WebNative\Admin\styles\search\style\searchdisplay.js
- C:\Program Files\Xinet\WebNative\Admin\styles\search\style\frameset.html (optional)

About custom queries

WebNative Suite supports form variables that allow users to enter a custom SQL search clause using columns in the "file" (e.g., *FileName*, *Creator*, etc.) and *keyword1* table. (e.g., *Field123*, etc.). The only constraint is that the access to the data fields is limited naturally to the those to which the particular user has access. Custom clauses with illegal fields will simply be ignored. However, it is well within the user's power to add syntax errors to the clause which can cause the entire search to fail, so this should be used with caution.

An example of a custom clause is:

```
Field123 = "bbb" AND LENGTH(FileName) > 5
```

The variable, <code>custquery_X</code> represents the feature. Multiple values of this variable may be submitted to pass custom SQL conditions that will be included with the other built-in <code>search</code> conditions. (Where <code>X</code> is the index to the particular custom query, starting from 0. The <code>X</code> number is basically the count of custom queries involved. Normally there would just be one, so you would only use <code>custquery_0</code> which is associated with <code>custquerylogic_0</code> and <code>custquerynot_0</code>. If a second one is added they would all share the suffix <code>_1</code>, and so on...The values that are submitted follow the same rules as the <code>dbsearch_logic</code> and <code>not_values.</code>)

The variable custquerylogic_X is also supported, providing the logical operation for how the whole condition is joined to the query. The custquerynot_X variable negates the condition (e.g., custquery 0 = "Field44 = \"foo\"", custquerylogic 0 = 1).

Entry point for WebNative — toplevel

On UNIX systems: /usr/etc/webnative/listdir

/usr/etc/webnative/searchengine

On Windows systems: C:\Program Files\Xinet\WebNative\Bin\listdir.exe

C:\Program Files\Xinet\WebNative\Bin\searchengine.exe

The *toplevel* action, which is not associated with a single, named CGI, is the "starting point" for most WebNative activities. It provides the user with a convenient, single entry-point into WebNative file systems.

Command summary:

```
listdir [-t] [-nohead] [-nofoot] [-nosrc]
or
searchengine [-t] [-nohead] [-nofoot] [-nosrc]
```

The table below gives details about *toplevel* arguments:

 Table 3-7
 toplevel operation arguments

Argument	Definition
-t	The -t flag, if given, will force the two CGIs listed above to perform the <i>toplevel</i> action. If the -t is omitted, and no other argument is given to the CGIs, the <i>toplevel</i> action will also be performed. If any other flags are given, the CGIs will attempt to perform their regular actions.
-nohead	If -nohead is given, then the user's <i>header.html</i> , stored in his or her WebNative user directory, will not be printed.
-nofoot	If -nofoot is given, then the user's <i>trailer.html</i> , stored in his or her WebNative user directory, will not be printed.
-nosrc	If -nosrc is given, then toplevel.js will not be printed.
JavaScript variables	
uinfo	Please see the file <u>"Common JavaScript variables" on page 34</u> fo a description.
numvols	The numvols variable contains the number of volumes available to the user for browsing and/or searching.
volumes	The volumes variable points to an array of objects describing th volumes available to the user. Each object is described as follows Note: In the following descriptions, i is merely a place holder, and refers to any arbitrary object within the array. volume $[i]$. path — the full path to the volume on the server volume $[i]$. name — an HTML-friendly name for the volume, as defined by the WebNative administrator volume $[i]$. uinfo — a uinfo object, as described in "Commo JavaScript variables" on page 34, detailing the user's permission for the given volume.
UserInfo	An object containing information about the user's WebNative account. It consists of the following fields:
	•UserInfo.name — the user's name •UserInfor.issubadmin — if <i>true</i> , the user has <i>subadmin</i> privilege •UserInfo.id — the user's WebNative Suite database numerical ID
HasAllVols	if <i>true</i> , the user has access to every WebNative Suite data- base-enabled volume. This is useful for generating "allvols" searches, which are optimized searches of every database-enabled volume.
Accepted Form Va	riables
	None

Corresponding HTML Files:

On UNIX,

/usr/etc/webnative/styles/toplevel/style/toplevel.js

On Windows,

C:\Program Files\Xinet\WebNative\Admin\styles\toplevel\style\toplevel.js

Getting detailed image info

```
On UNIX systems — /usr/etc/webnative/imageinfo
On Windows systems — C:\Program Files\Xinet\WebNative\Bin\imageinfo.exe
```

The *imageinfo* CGI provides detailed information about any file on a WebNative mounted volume. Additionally, it can be used to edit a file's meta-information, provided the user has permission to do so.

Command summary:

```
imageinfo [-a action] [-b] [-f] [-nohead] [-nofoot]
[-nosrc] [-style style] [-nokeys] [-I] [-v] [-D] [-p]
[-onlykeys] [-uploadkeys] filename
```

The table below gives details about *imageinfo* arguments:

 Table 3-8
 imageinfo operation arguments

Argument	Definition
-a action	The imageinfo CGI is not limited to using the default HTML associated with it. In fact, any WebNative action can have its own <i>imageinfo</i> HTML file. Any action's <i>imageinfo</i> HTML file can be used by giving <i>imageinfo</i> the –a flag, followed by the name of the action. If –a is omitted, then the default <i>imageinfo</i> action is assumed.
-b	The -b flag informs the CGI that the nobuttons JavaScript variable should be set to true, rather than the default false.
-f	The -f flag informs the <i>imageinfo</i> CGI to print the default <i>imageinfo</i> HTML file rather than the <i>frameset</i> HTML file. If the <i>frameset</i> file does not exist, then this flag has no effect.
-nohead	If -nohead is given, then the user's <i>header.html</i> , stored in his or her WebNative user directory, will not get printed.
-nofoot	If -nofoot is given, then the user's <i>trailer.html</i> , stored in his or her WebNative user directory, will not be printed.
-nosrc	If -nosrc is given, then imageinfo.html will not be printed.

 Table 3-8
 imageinfo operation arguments

8 1 8	
Argument	Definition
-style <i>style</i>	The <i>imageinfo</i> CGI can dynamically change Styles by specifying the -style argument and the name of the Style to use.
-nokeys	Instructs the <i>imageinfo</i> CGI to suppress printing of keyword information.
-1	Activates the display of linked-file information.
-A	Activates the display of version information.
-D	Instructs the <i>imageinfo</i> CGI to log WebNative Suite database-debugging information to Apache's error log.
-p	Instructs the <i>imageinfo</i> CGI to set the <i>browseparent</i> variable to <i>false</i> .
-onlykeys	If supplied, the <i>imageinfo</i> CGI will only display metadata-related JavaScipt
-uploadkeys	Similar to -onlykeys, except it only displays metadata-related JavaScript which has been approved for Uploader usage.
filename	The name of the file which the <i>imageinfo</i> CGI should gather and print information about.
JavaScript variables	
file keywords uinfo	Please see "Some common JavaScript variables" on page 34 for descriptions of these variables. Note: The file variable has the same elements as files [i], described in "Some common JavaScript variables" on page 34.
usedb	If <i>true</i> , file information comes from the WebNative Suite database, rather than the file system.
Syncing	If <i>true</i> , the volume the file resides on is currently being synced with the WebNative Suite database.
xmpwritable	If <i>true</i> , the file has XMP data that can be written by the WebNative Suite database
xmppad	Indicates the amount of data that can be written to the file's XMP packet.
dtcomment	The dtcomment variable contains a string representing the <i>Finder</i> comments associated with the file.

 Table 3-8
 imageinfo operation arguments

Argument	Definition
editkeywords	If editkeywords is <i>true</i> , then the user has permission to edit a file's database keywords, given those keywords are editable.
nobuttons	If nobuttons is <i>true</i> , then the user interface should not display buttons.
errcode	If an error occurred, this variable will have a non-zero integer value. If all processing completed successfully, then this will be zero.
browseparent	Indicates whether it is appropriate for Styles to display a browse icon for the current directory
fhistory	An array of objects describing the WebNative Suite database transaction history for the given file.
fhistory[i].event	The type of event that occurred.
<pre>fhistory[i].time</pre>	The UNIX time at which the event occurred.
fhistory[i].user	The WebNative <i>username</i> of the user which initiated the event.
fhistory[i].ipaddr	The IP address which the event request originated from.
hasversions	If <i>true</i> , there are versions of the given file stored on the server.
versions	An array of file objects describing the versions. This variable is only populated if the -v switch was given.
versionpwd	The directory which contains the file's version repository.
versioncount	Number of file objects in the version array.
haslinks	If <i>true</i> , the file is linked in QuarkXPress and/or InDesign files on a WebNative Suite database-enabled volume.
links	An array of file objects describing the QuarkXPress and/or InDesign files the image is used in. This variable is only populated if the -1 switch was given.
numlinks	Number of files in the links array.

 Table 3-8
 imageinfo operation arguments

Argument	Definition
naa	If naa is not <i>false</i> or <i>null</i> , then it points to an object describing the NAA comments associated with the file. Note: Even if the naa object exists, not all of the following fields may be defined or have a value. One should check each field for existence before referencing it: naa. Vers — the NAA version the comments are stored as
	naa.keywords — an array of keywords naa.objname — object name naa.category — category naa.categories — an array of supplemental categories naa.date — date naa.byline — by-line naa.title — by-line title naa.city — city naa.state — province/state naa.country — country naa.instr — instructions naa.xmit_ref — transmission reference naa.headline — headline naa.credit — credit naa.source — source naa.copyright — copyright naa.caption — caption/abstract naa.writer — writer/editor
Accepted Form variable	s
dir	Specifies the full path to the file whose comments/keywords are to be changed. This field is optional if the file path is passed in as an argument.
comment	Specifies a value for the file's finder comments.
submitcomment	If submitcomment is defined, then <i>imageinfo</i> will attempt to change the files' comments to the string specified in the comment form variable.
keyword <i>N</i>	Specifies a value for the file's database field with id <i>N</i> . <i>Note: N</i> is merely a placeholder, and refers to a unique database field id. For example, to set the value for database field 2, one would submit form variable named keyword2 with the desired value.

Corresponding HTML files:

On UNIX systems

- /usr/etc/webnative/styles/action/style/imageinfo.html
- /usr/etc/webnative/styles/action/style/frameset.html (optional)

but, typically:

- /usr/etc/webnative/styles/imageinfo/style/imageinfo.html
- /usr/etc/webnative/styles/imageinfo/style/frameset.html (optional)

On Windows systems

- C:\Program Files\Xinet\WebNative\Admin\styles\action\style\imageinfo.html
- C:\Program Files\Xinet\WebNative\Admin\styles\action\style\frameset.html

but typically:

- C:\Program Files\Xinet\WebNative\Admin\styles\imageinfo.html\style\imageinfo.html
- C:\Program Files\Xinet\WebNative\Admin\styles\imageinfo.html\style\frameset.html

Custom-ordering images

```
On Unix systems — /usr/etc/webnative/imageorder
On Windows systems — C:\Program Files\Xinet\WebNative\Bin\imageorder.exe
```

The *imageorder* program handles both the initial full display of an image's properties and the actual download of the custom-sized image. Additionally, the program prints support HTML responsible for presenting a user with an interface.

Command summary:

```
imageorder [-f] [-g [dhesz]] [-imagetox args] filename
```

For example:

To create a 96 DPI greyscale TIFF from the file /path/to/file, one would use the following URL:

```
/webnative/imageorder?-gd+-xtif+-cgrey+-r96+/path/to/file
```

The table below gives details about *imageorder* arguments:

 Table 3-9
 imageorder operation arguments

Argument	Definition
-f	If the -f argument is specified, the <i>imageorder</i> CGI will print its support HTML rather than its <i>frameset</i> , provided the <i>frameset</i> exists. If the <i>frameset</i> exists and the -f argument is omitted, the <i>frameset</i> will be printed. If the <i>frameset</i> does not exist, the -f argument will have no effect.
-g[dhesz]	Convert and download the image d — Convert and download a compressed archive containing the image. h — Suppress printing of the HTTP header. Useful only in a non-Web environment. e — Suppress addition of three character file type extension to filename. s — Force imageorder to use StuffIt archive format for downloads. z — Force imageorder to use ZIP archive format for downloads. zz — Force imageorder to use AppleDouble ZIP archive format for downloads
filename	The filename argument specifies the name of the file to convert, scale, and/or crop.
-imagetox args	See <i>imagetox</i> (1) man page.
JavaScript variables	
sourcewidth	The sourcewidth variable corresponds to the original image's pixel width.
sourceheight	The sourceheight variable corresponds to the original image's pixel height.
sourcedpi	The sourcedpi variable corresponds to the original image's resolution, in dots per inch.
filename	The filename variable contains the full path to the file specified at invocation.
htmlname	The htmlname variable contains a printable, HTML-friendly version of the filename contained in the filename variable.
hasclip	If hasclip is true, then the image has a clipping path.
hasmask	If hasmask is true, then the image has a mask.

 Table 3-9 imageorder operation arguments

Argument	Definition
imagetype	The imagetype variable contains the 4-character Macintosh file type for the file.
ispixels	If ispixels is true, then the file is pixel-oriented (like JPEG), rather than vector-oriented (like PDF).
colorspace	The colorspace variable contains the colorspace the image is in.
numspots	The numspots variable contains an integer describing how many spot colors the image has.
spots	If numspots is greater than zero, then the spots variable will point to an array of strings. Each member of that array is an object described as follows: $ spots[i] . name — the name of the spot color \\ spots[i] . cyan — the cyan value of the spot color \\ spots[i] . megenta — the magenta value of the spot color \\ spots[i] . yellow — the yellow value of the spot color \\ spots[i] . black — the black value of the spot color$
previews	A generic JavaScript object containing fields for each preview image available for the file. The fields are set like the support_image variables on page 37 but may also include a "tiff" filed describing an EPS' TIFF preview.
hasiccprofile	If true, then the given file has an embedded ICC profile.
hasiccdefault	If <i>true</i> , the file type has an ICC profile associated with it. If hasicoprofile is <i>true</i> , hasicodefault will always be <i>false</i> .
iccprofile	Describes either the embedded or default ICC profile for the image, given either exists.
renderingintent	Describes the default rendering intent.
iccdirectory	Directory on the server where ICC profiles exist.
ICCGreyfiles	Array of filenames for all the ICC profiles on the server for the Grey colorspace.
ICCLabfiles	Array of filenames for all the ICC profiles on the server for the Lab colorspace.
ICCRGBfiles	Array of filenames for all the ICC profiles on the server for the RGB colorspace.

Table 3-9 imageorder operation arguments

Argument	Definition
ICCCMYKfiles	Array of filenames for all the ICC profiles on the server for the CMYK colorspace.
ICCGreynames	Array of names for the above Grey ICC profiles.
ICCLabnames	Array of names for the above Lab ICC profiles.
ICCRGBnames	Array of names for the above RGB ICC profiles.
ICCCMYKnames	Array of names for the above CMYK ICC profiles.
usmfiles	Array of filenames describing preset unsharp masks on the server.
usmnames	Array of name describing the above unsharp masks.
numpages	Indicates how man pages the document has.
setstyle	If the default Style was overridden with the -style argument, the new Style name will be reflected in setstyle.
Accepted Form variables	
	None

On UNIX systems

- /usr/etc/webnative/styles/order/style/imageorder.html
- /usr/etc/webnative/styles/order/style/frameset.html (optional)

On Windows systems

- C:\Program Files\Xinet\WebNative\Admin\styles\order\style\imageorder.html
- C:\Program Files\Xinet\WebNative\Admin\styles\order\style\frameset.html (optional)

Extracting Web-ready previews of images

On UNIX systems — /usr/etc/webnative/getimageOn Windows systems — $C:\Program\ Files\Xinet\WebNative\Bin\getimage.exe$

The *getimage* program provides a centralized access point for retrieving a high-res image and all support images associated with that high-res image. For example, it can be used to extract a preview image into a Web-ready form. Additionally, *getimage* will compress and archive in *StuffIt* format large-sized high-res and FPO images before sending them to the user.

Command Summary:

```
getimage [-s pagenumber] [-f fmt] [-D] [-E] [-id dbid]
[-d date] [-n] -web|eweb|small|high|fpo filename
```

The table below gives details about *getimage* arguments:

 Table 3-10
 getimage operation arguments

Argument	Definition
-s pagenumber	Given multiple previews for a single file have been stored in the WebNative Suite database, this argument can be used to retrieve those previews individually. The pagenumber argument indicates which preview to retrieve.
-f fmt	When sending high-res or FPO files, <i>getimage</i> will compress and archive the image as a <i>Stuffit</i> file before sending it. The -f flag can be used to specify an alternate compression/archive format. Supported formats include:
	zip — Windows-style zip file uzip — Uncompressed Windows-style zip file maczip — Mac-style zip file, which includes resource forks unmaczip — Uncompressed Mac-style zip file sit — Stuffit file.
-D	Instructs the <i>getimage</i> CGI to log WebNative Suite debugging information to Apache's error log.
-E	If image retrieval fails, the $-\mathbb{E}$ argument will cause <i>getimage</i> to download a file describing the error in place of the requested image.
-d date	Instructs <i>getimage</i> to retrieve a large Web preview from the large Web preview history table. The preview selected will be as close to <code>date</code> as possible, but will never be older. If no preview is available in the large Web history table, the current large Web preview will be used. The <code>date</code> argument is encoded as the number of seconds since january 1, 1970. This argument is only supported with the WebNative Suite database enabled.
-n	Informs <i>getimage</i> that, if no download format is explicitly specified, it may choose <i>maczip</i> as a format. If not supplied, getimage will only choose between <i>sit</i> and <i>zip</i> .
-id <i>dbid</i>	Instructs the <i>getimage</i> CGI to retrieve image data from the database, rather than the file system. <i>dbid</i> must be a valid WebNative Suite file ID number

Table 3-10 getimage operation arguments

Argument

-web|eweb|small| high|fpo filename

Definition

The getimage CGI can return the following types of images.

- web Web-friendly preview option will return the larger GIF or JPEG of the image, with the appropriate MIME header (Content-type: *image/gif* or Content-type: *image/jpeg*). This image will be up to 72 DPI, and can be quite large in the case of large images on a server with no limit on FPO sizes. This image should not be scaled to a square size, as it will change the aspect ratio.
- eweb identical to web, but forces the GGI to not wrap images in an HTML IMG tag.
- small get a small, Web-friendly preview with the appropriate MIME header (Content-type: *image/gif* or Content-type: *image/jpeg*). This image will be 112 pixels in the larger direction. This size image is appropriate for inlining in Web pages. This image should not be scaled to a square size, as it will change the aspect ratio.
- high get the original high-res images (compressed and archived). The data and resource fork will be placed together in a *StuffIt* file (Content-type: application/x-stuffit). If a Zip file is requested, the resource fork is omitted. For images, extraneous resources will be discarded.
- fpo get the image's FPO (compressed and archived). The data and resource fork will be placed together in a *StuffIt* file (Content-type: *application/x-stuffit or just the data in a Zip*). Extraneous resources will be discarded. This is similar to usage of the *FPO Exporter* application on the Mac. Reasonable Web browsers will automatically decode the image to a Mac file on the other end with the correct file name.

JavaScript Variables

None

Accepted Form variables

None

Getting icons

On UNIX systems, /usr/etc/webnative/webicon
On Windows systems, C:\Program Files\Xinet\WebNative\Bin\webicon.exe

The webicon CGI is used to search WebNative's icon database or a file's resource fork and get a Web-friendly icon for a specified file. By default, the webicon CGI returns a 32x32 GIF (with a Content-type: image/gif header) for any file the user has permission to access. The webicon CGI first checks if the file has a custom icon. If so, the custom icon is returned. If not, the icon database on the server will be consulted, and the icon for the application that created the image will be returned. If there is no application icon for the image, a document icon with a ? in the middle of it will be returned. The default icon will always be square, and always be exactly 32x32 pixels.

Command Summary:

```
webicon [-16] [-off] [-gifonly] [-TC hextypeandcreator]
[-T hextype] [-C hexcreator]] path
```

The table below gives details about webicon arguments:

 Table 3-11
 webicon operation arguments

Argument	Definition
-16	A 16 pixel by 16 pixel icon is retrieved (as opposed to 32 by 32) if the -16 argument is given.
-off	If the -off flag is given, then the <i>webicon</i> CGI will draw the icon to specify "offline" status (i.e. greyed).
-gifonly	If -gifonly is specified, then the icon retrieved will always be a GIF.
-TC hextypeandcreator	The file's <i>type</i> and <i>creator</i> can be specified in two ways. The first is to give the -TC argument, followed by the hex representation of the file's <i>type</i> followed by the hex representation of the file's <i>creator</i> , with no space in between the <i>type</i> and <i>creator</i> . Example: A JPEG (type JPEG) created by Photoshop (creator 8BIM) would have a hex type/creator string 4A5045473842494D.
-T hextype -C hexcreator	If -TC is not used to identify <i>type</i> and <i>creator</i> , then the -T argument can be given to specify the file's <i>type</i> . Again, the type is given as the hex representation. Additionally, the creator can be specified with the -C argument, which is followed by the hex representation of the file's <i>creator</i> .

Table 3-11 webicon operation arguments

Argument	Definition
path	If a file has a custom icon within its resource fork, the path to the file can be specified instead of the <i>type</i> and <i>creator</i> . The custom icon will be extracted from the resource fork instead of the icon database. Note: A file has a custom icon if the .custicon field of the file's corresponding file object (i.e. file[i].custicon) exists and has a value.
JavaScript variables	
	None
Accepted Form variables	
	None

None

File management

On UNIX systems — /usr/etc/webnative/filemgrOn Windows systems — $C:\Program\ Files\Xinet\WebNative\Bin\filemgr.exe$

The *filemgr* CGI is used to remotely administer WebNative file systems. Users with file management permissions can move, copy, rename, and delete any file or directory in a WebNative volume. Once the CGI is live and running in a browser window, however, interaction should proceed with form variables rather than command-line operations.

Command summary:

```
filemgr [-f] -action operator [path]
```

The table below shows details of *filemgr variables*:

 Table 3-12 filemgr
 Form and operation variables

Variable	Definition
-f	If the -f flag is given, then <i>filemgr</i> will not print its <i>frame-set</i> if it is present. Instead, it will print its HTML file. If no <i>frameset</i> file is specified, then the html file will always be displayed and -f will have no effect.
-numvols	The numvols variable contains the number of volumes available to the user for browsing and/or searching.

 Table 3-12 filemgr
 Form and operation variables

Variable	Definition
-volumes	The volumes variable points to an array of objects describing the volumes available to the user. Each object is described as follows. Note: In the following descriptions, <i>i</i> is merely a place holder, and refers to any arbitrary object within the array.
	volume [i] .path — the full path to the volume on the server volume [i] .name — an HTML-friendly name for the volume, as defined by the WebNative administrator volume [i] .uinfo — a uinfo object, as described in "Common JavaScript variables" on page 34, detailing the user's permissions for the given volume.
-action	Informs the <i>filemgr</i> CGI which action invoked it. The <i>browse</i> action, for example, would invoke it with -browse. Note: Any other action wishing to invoke the <i>filemgr</i> CGI must have a <i>filemgr.html</i> file within that action's current style directory, or it must invoke it as if it were the <i>browse</i> action.
operator	The operator argument may be any one of the following values: nop, list, mkdir, rm, del, or premv. The operator argument instructs the filemgr CGI to prepare itself for the operation associated with the argument. Each of these operators can be submitted to the CGI as values for the "action" form variable described on page 74 • nop—no operation is performed, aside from printing the CGI's corresponding HTML files. • list—identical to nop. • mkdir—makes a directory. • rm—informs the CGI that the user would like to remove a file. • del—identical to rm, except the file is actually removed. • premv—informs the CGI that the user would like to move a file/directory. • mv—performs a move using form variables • updir—instructs the filemgr CGI to create a new diretory for files to be uploaded. Similar to mkdir, only the user does not need general file management permission to use it, only upload permission. • promote—promotes a version of a given file to be the current working version. The old current working version is saved as a new version beforehand. The Web-Native Administration Guide provides more information about WebNative Version Management.

 Table 3-12 filemgr
 Form and operation variables

Variable	Definition
path	The working directory for <i>filemgr</i> . This may be specified on the command line or may be passed as a form variable. The form variable takes precedence.
	 precp — similar to premv, except the file will be copied instead of moved. cp — similar to mv, except the file will be copied instead of moved.
JavaScript Variables	
files numfiles dir uinfo	Please see <u>"Some common JavaScript variables" on page 34</u> for information about these variables. All are initialized relative to the root directory passed in at invocation.
volumes	
numvols	
action	The action variable contains a string mirroring the operator specified upon invocation. The user interface should draw itself appropriately.
filename	The filename variable is only set after a premy or precp operation has been submitted via POST. It contains the full path to the file on the server upon which <i>filemgr</i> is to act. This path is specified in the filename form variable in the form submitted during the precp or premy operation.
htmlfile	This variable contains a printable, Macintosh-formatted version of the path stored in the filename variable.
newname	The newname variable is only set after a mv or cp operation has been submitted via POST, or to cause a directory to be made via <i>mkdir</i> . It contains the new name given to the moved or copied file.
msg	If an error occurred, a message explaining it will be stored here.
errcode	If an error occurred, the errorde variable will contain a positive integer. If errorde is negative, <i>filemgr</i> is just in the information-gathering stage.

 Table 3-12 filemgr
 Form and operation variables

Variable	Definition
rmcount	If the rm operation is specified in a form submission, and the filename specified upon submission was a directory, this variable will contain the number of entries within the directory.
Accepted Form variables	
filename	The filename form variable should contain the full path of the file to be operated on.
newname	If a file is to be moved or copied, the newname form variable should contain the new name for the file. The same name as the filename can be used here if the file is being moved or copied to another directory.
dir	If a file is to be moved or copied, the dir form variable should contain the full path to the final directory where the moved or copied file is to reside. For any other operation, it should contain the full path to the directory when the file specified in filename exists.
action	The action form variable should contain one of the operators specified in "Some common JavaScript variables" on page 34.
action_premv action_precp action_mv action_cp action_del	The action_* variables should have no value. Their presence is equivalent to setting the action form variable to each's respective suffix. While many action_* elements may be present in a form, only the last will be used in processing.
overwrite	If not defined <i>filemgr</i> or the value is 0, <i>filemgr</i> does not overwrite files. If defined and value is 1 <i>filemgr</i> overwrites files on copy and move.

On UNIX systems

/usr/etc/we bnative/styles/action/style/filemgr.html

Typically, though...

/usr/etc/web native/styles/browse/style/filemgr.html

On Windows systems

Typically, though...

Previewing archived files

On Unix systems — /usr/etc/webnative/archivepict On Windows systems — $C:\Pr$ Files\Xinet\WebNative\Bin\archivepict.exe

The *archivepict* CGI searches for a preview of an archived file. If it finds one, it will send back a Web-friendly version of it.

Command Summary:

```
archivepict [-o offset -l length] volumename number path
```

The table below shows details of archivepict variables:

 Table 3-13
 archivepict flags and variables

Variable	Definition
-o offset -l length	If a specific preview is desired, an offset and length into Flashnet's preview storage can be specified as the first two arguments. These flags should not be used unless the offset and length values were generated by a WebNative CGI.
volumename	The name of the volume the archived picture resides on.
number	More than one backup for a specific file may exist at one time. The <i>number</i> variable refers to the <i>n</i> th instance of the file's backup for which a preview is to be retrieved.
path	The path to the file for which a preview is requested
JavaScript variables	None
Accepted Form variables	
	None

Corresponding HTML files: None

Determining plug-in availability

On UNIX systems — /usr/etc/webnative/basketbuttons On Windows systems — $C:\Program\ Files\Xinet\WebNative\Bin\basketbuttons.exe$

The *basketbutton* CGI collects information about which plugins are available to a user. In most cases, *basketbutton* will never be invoked by anything other than *basketcontrol*.

The table below shows details of basketbutton variables:

 Table 3-14
 basketbuttons flags and variables

Variable	Definition
Arguments	
	None
JavaScript varia	bles
basketbtns	Contains an array of objects describing the plugins available to the user. Each object within this array corresponds to one plugin, which are described by the following characteristics. Note: In the following descriptions, i refers to any arbitrary object within the array.
	basketbtns[i].path — contains the path portion of the URL for the plugin basketbtns[i].icon — contains the path to the plugin's icon on
	the server basketbtns $[i]$. name — contains a user-friendly name for the plugin
	basketbtns[i].confirm — if the plugin associated with this object does not handle archived images, this flag will be set to true. Example: The <i>batchorder</i> plug-in has the following entry in the basketbtns array:
	<pre>basketbtns[i].path = '/webnative/plu- gins/batchorder.dir/batchorder' basketbtns[i].icon = 'wn_order.gif' basketbtns[i].name = 'Batch Image Order' basketbtns[i].confirm = 'true'</pre>
basketfile	Contains the path to the user's basket file on the server. Most plugin require this to be passed in as an argument.
Accepted Form	variables
	None

Corresponding HTML Files:

On UNIX systems:

/usr/etc/we bnative/styles/basket/style/buttons.html

On Windows systems:

Gaining access to a user's basket

On Unix systems — /usr/etc/webnative/basketcontrol
On Windows systems — C:\Program Files\Xinet\WebNative\Bin\basketcontrol.exe

The basketcontrol CGI is responsible for displaying control.html, which invokes other basket CGIs with appropriate arguments. It is the primary entry point for accessing and displaying a user's WebNative basket.

Command summary:

```
basketcontrol [-n|-a|-r|-p] [path [...]]
```

The table below shows details of basketcontrol arguments and variables:

Table 3-15 basketcontrol arguments and variables

Variable	Definition
	Arguments
-n -a -r -p path	An "operation" may be specified as an argument to basket-control. The noop operation, meaning do nothing but display text, is specified by the -n flag. Adding a file or group of files to the basket is specified by giving basketcontrol the -a flag. Removing a file or group of files is specified by the -r flag. If the -p flag is given, the basketcontrol CGI will proxy add/remove requests to the showbasket CGI rather than handling them itself. Typically, this is undesirable. Only one of the flags may be specified. If none of them is specified, then an operation of noop is assumed. Additionally, basketcontrol is not directly responsible for executing these operations. It merely reports them to other CGIs which do the real work associated with the flags. If the -a or -r flag is specified, a list of paths to files on the server must be specified.
JavaScript variables	
controluser	This variable corresponds to the current user's WebNative username.
add	If add is true, then the -n argument was given to <i>basketcon-rol</i> . All interested CGIs, particularly <i>showbasket</i> , should be notified via appropriate flags.
remove	If remove is <i>true</i> , then the -r argument was given to <i>bas-ketconrol</i> . All interested CGIs should be notified via appropriate flags.

 Table 3-15
 basketcontrol arguments and variables

Variable	Definition
noaction	If noaction is true, then the -n argument was given to bas- ketcontrol. Again, all interested CGIs should be notified.
controlpath	If -r or -a were specified upon invocation, the control- path variable contains any path information also passed in. If the -n flag or no flag was specified, then controlpath is set to null.
controlpath	If the -p flag was given, this variable will contain the path list which should be passed to the <i>showbasket</i> CGI.
Accepted Form variables	
	None

On UNIX systems:

/usr/etc/webnative/styles/basket/*style/control.html

On Windows systems:

C:\Program Files\Xinet\WebNative\Admin\styles\basket\style\control.html

Generating a rectangular mask

On UNIX Systems — /usr/etc/webnative/cropimage
On Windows Systems — C:\Program Files\Xinet\WebNative\Bin\cropimage.exe

The *cropimage* CGI is used in conjunction with *imageorder*. Its primary purpose is to run a separate cropping frame for image ordering. It is also used to generate a rectangular mask which illustrates how cropping will occur based on the user's input. It can be used, however, in any instance where a rectangular mask is needed. For example, the "preview" order Style uses *cropimage* to create a dynamic "bubble" for the slider.

Command Summary:

```
cropimage [-fname] [-c]
[height, width, crop-x, crop-y, crop-width, crop-height]
```

The table below shows details of *cropimage arguments and variables*:

Table 3-16 cropimage arguments and variables

Variable	Definition
Note: If no arguments are p	resent, then cropimage will print the cropimage.html file.
-fname	If -f is specified, then <i>cropimage</i> will print the file called name from the <i>imageorder style</i> directory
-c height, width, crop-x, crop-y, crop-width, crop-height	If the $-c$ flag is specified, then cropimage will send the image mask specified. The image mask specification consists of a comma-delimited list of six integers. The first two integers correspond to the height and width of the entire mask. Then next two describe the position of the top-left corner of the non-masked area (coordinate numbering is done from top to bottom and from left to right). The next two describe the width and height of the non-masked area.

${\it Java Script\ variables}$

Note: The following variables are output every time cropimage prints html, regardless which frame it is printing.

willen frame it is printing.	
origwidth	Corresponds to the $width$ argument passed in upon invocation.
origheight	Corresponds to the height argument passed in upon invocation.
dispwidth	Corresponds to the width argument passed in upon invocation. Will never be less than 0, however, regardless of origwidth.
dispheight	Corresponds to the <i>height</i> argument passed in upon invocation. Will never be less than 0, however, regardless of origheight.
icropx	Corresponds to the $crop-x$ argument passed in upon invocation.
icropy	Corresponds to the $crop-y$ argument passed in upon invocation.
icropw	Corresponds to the <code>crop-width</code> argument passed in upon invocation.
icroph	Corresponds to the ${\it crop-height}$ argument passed in upon invocation.
filename	Full path to the given file on the server.
htmlname	Displayable filename for the given file.
origres	Indicates the file's resolution, in dots-per-inch.

Table 3-16 cropimage arguments and variables

Variable	Definition
setstyle	If the default style was overridden with the -style argument, the new style name will be reflected here.
Accepted Form variables	
	None

On UNIX systems

- /usr/etc/webnative/styles/order/style/cropimage.html the primary HTML file, responsible for opening/filling any other frames
- /usr/etc/webnative/styles/order/style/cbframe.html buffer frame (optional)
- /usr/etc/webnative/styles/order/style/ccframe.html control frame (optional)
- /usr/etc/webnative/styles/order/style/cdframe.html display frame (optional)
- /usr/etc/webnative/styles/order/style/cnframe.html blank frame (optional)

On Windows systems

- C:\Program Files\Xinet\WebNative\Admin\styles\order\style\cropimage.html— the primary HTML file, responsible for opening/filling any other frames
- *C:\Program Files\Xinet\WebNative\Admin\styles\order\style\cbframe.html* buffer frame (optional)
- *C:\Program Files\Xinet\WebNative\Admin\styles\order\style\ccframe.html* control frame (optional)
- *C:\Program Files\Xinet\WebNative\Admin\styles\order\style\cdframe.html* display frame (optional)
- *C:\Program Files\Xinet\WebNative\Admin\styles\order\style\cnframe.html* blank frame (optional)

Showing QuarkXPress, PDF and InDesign file previews

On UNIX systems — /usr/etc/webnative/quarkview
On Windows systems — C:\Program Files\Xinet\WebNative\Bin\quarkview.exe

The *mview* CGI (formerly known as *quarkview*¹) allows a user to view spreads and linked image information for any QuarkXPress file on the server which was saved with the

¹ The *quarkview* CGI remains in the distribution for backwards compatibility only. Use *mview* for all new development.

WebNative XT enabled or any InDesign document that was saved with the WebNative ID plug-in.

Command Summary:

```
mview [-f] [-D] [-d dlev] [-sync] [-fidfileid]
[-volflagsflags] [-sint] [-lint] [-p pagenumber] [-sspreadnumber |
-lspreadnumber] filename
```

The table below shows details of *mview* arguments and variables:

 Table 3-17
 mview arguments and variables

Variable	Definition
-f	If the -f argument is specified, the <i>mview</i> CGI will print its support HTML rather than its <i>frameset</i> , provided the <i>frameset</i> exists. If the <i>frameset</i> exists and the -f argument is omitted, the <i>frameset</i> will be printed. If the <i>frameset</i> does not exist, the -f argument will have no effect.
-D	Instruct <i>mview</i> to send WebNative Suite debug information to Apache's error log.
-d dlev	Instruct <i>mview</i> to send WebNative Suite debugging information to Apache's error log, using a custom debug level <code>dlev</code> .
-sync	Puts the <i>mview</i> CGI in database <i>sync</i> mode. When given, it will synchronize the given QuarkXPress, InDesign document, or PDF with the WebNative Suite database. Note: In database <i>sync</i> mode, the <i>mview</i> CGI does not output <i>JavaScript</i> or HTML.
-fidfileid	Used in <i>sync</i> mode to supply the CGI with the QuarkX-Press, InDesign or PDF document's WebNative database ID number. Has performance benefits.
-volflags <i>flags</i>	Used by mview to determine which previews are being stored for the volume in which the file exists.
-sint	Used to pull the small spread preview numbered <code>int</code> from the database.
-lint	Used to pull the large spread preview numbered <i>int</i> from the database.
filename	The full path on the server to the QuarkXPress or InDesign document to be examined.
-p pagenumber	Display the supplied page number on page load rather than the first page.

 Table 3-17
 mview arguments and variables

Variable	Definition
-lspreadnumber	The -1 option requires a spread number. It will send the large Web preview for the file given with filename to standard out. If the preview is stored in the WebNative Suite database, that preview will be used. Otherwise, the previews will come from the file system, and therefore will not be provided if the file has been archived.
-sspreadnumber	The -s option requires a spread number. It will send the small Web preview for the file given with filename to standard out. If the preview is stored in the WebNative Suite database, that preview will be used. Otherwise, the previews will come from the file system, and therefore will not be provided if the file has been archived.
JavaScript variables	
uinfo path	Please see <u>"Some common JavaScript variables" on page 34</u> for information regarding these variables.
newvers	If newvers is non-zero, then the QuarkXPress/InDesign document was saved with a new version of the WebNative XT/WebNative ID which is incompatible with this version of WebNative.
image	The image variable points to an array of objects describing all the images used within the document. Each image is described by the following characteristics. Note: In the following descriptions, i refers to any arbitrary object within the array.
	• $image[i]$. $name$ — the name of the $image$
	• image [i] .top — the y value of the top of the image (with respect to the spread)
	• image [i] .bottom — the y value of the bottom of the image (with respect to the spread)
	• image [i] . left — the x value of the left side of the image (with respect to the spread)
	• image [i] . right — the x value of the right side of the image (with respect to the spread)
	• image [i] . spread — the spread on which the image appears.

Table 3-17 mview arguments and variables

Variable

Definition

- image[i].status the image status
- Example: A 100 pixel by 500 pixel image in the extreme top-left corner of the 4th spread of a 6-spread document would have the following values:

```
image[i].top = 0
image[i].bottom = 500
image[i].left = 0
image[i].right = 100
image[i].spread = 4
```

All other fields would be set accordingly.

- image [i] . volume the name of the volume the image exists on
- image [i] .file if the *quarkview* CGI can find the file corresponding to the image, its information is printed here (as described in <u>"Some common JavaScript variables" on page 34</u>)

numimage

The numimage variable describes the number of images within the image array.

smallspread
largespread

Both the smallspread and the largespread variables point to an array of objects. Each object in these two array corresponds to a spread preview within the QuarkXPress or InDesign document. Both arrays contain information for every spread within the document. The only difference between the previews is their size. The previews represented in smallspread are suitable for use as thumbnails, while those in largespread are the same size as the original document. Each spread is described by the following information.

Note: Both smallspread and largespread contain the same fields. So only smallspread is detailed below. Again, $\dot{\mathbf{i}}$ is used as a reference to any given object in the array.

- smallspread[i].top—the top of the spread with respect to the document
- smallspread[i].bottom the bottom of the spread with respect to the document
- smallspread[i].left the left of the spread with respect to the document
- smallspread[i].right the right of the spread with respect to the document
- smallspread[i].size the size of the spread in bytes
- smallspread[i].offset the offset of the spread in the document

Table 3-17 mview arguments and variables

Variable	Definition
numspread	The numspread variable describes the number of spreads within both the largespread and smallspread arrays.
docfileid	The file's WebNative Suite file ID number.
resolution	The document's resolution, in dots-per-inch.
offline	If true, the file is offline
isimage	If <i>true</i> , the file is classified as an image by the WebNative Suite server. Certain non-image files can be viewed with <i>mview</i> , like movies and layout documents.
docslugoutofdate	If true, the document was saved without the Xinet plug-in enabled.
Accepted Form variables	
	None

On UNIX systems

- /usr/etc/webnative/styles/quarkview/style/view.html
- /usr/etc/webnative/styles/quarkview/style/frameset.html (optional)

On Windows systems

- C:\Program Files\Xinet\WebNative\Admin\styles\quarkview\style\view.html
- C:\Program Files\Xinet\WebNative\Admin\styles\quarkview\style\frameset.html

Information about basket contents

On UNIX systems — /usr/etc/webnative/showbasket
On Windows systems — C:\Program Files\Xinet\WebNative\Bin\showbasket.exe

The *showbasket* CGI is responsible for gathering information about and displaying the contents of the user's WebNative basket. Additionally, it is responsible for maintaining the contents of that basket.

Command summary:

```
showbasket [-n|-a|-r|-c] [-t string] [-D] [-s] [path [-f path]]
```

The table below shows details of showbasket arguments and variables:

 Table 3-18
 showbasket arguments and variables

Variable	Definition
-n -a -r -c	An "operation" may be specified as an argument to <i>basket-control</i> . The "noop" operation, meaning "do nothing but print HTML," is specified by the -n flag. Adding a file or group of files to the basket is specified by giving <i>basketcontrol</i> the -a flag. Removing a file or group of files is specified by the -r flag. Clearing the basket of all files is specified by the -c flag. Only one of the flags may be specified. If none of them is specified, then an operation of "noop" is assumed.
-t string	In order to prevent a user's browser from caching the documents generated by <i>showbasket</i> , the -t flag can be used to create a unique URL each time the CGI is invoked. In order to work correctly, it must be followed by a unique string each time the CGI is invoked.
-D	Instruct <i>showbasket</i> to send WebNative Suite debugging information to Apache's error log.
-s	If supplied, basket contents will not be sorted alphabetically; rather, the contents will appear as they are ordered in the user's basket file.
path []	If the -a or -r flag is specified, a list of paths to files on the server must be specified, separated by -f arguments. These files will be added or removed.
JavaScript variables	
uinfo files numfiles	Please see "Some common JavaScript variables" on page 34 for information about these variables.
isIE	If the isIE variable is set to true, then the user's browser is Internet Explorer. Some versions of Internet Explorer cache documents with the same URL, which causes problems with the CGI must invoke itself. If this variable is true, it is recommended to use the -t flag in any subsequent invocations.
controlpath	Contains the list of paths showbasket acted upon.

 Table 3-18
 showbasket arguments and variables

Variable	Definition
files $\left[i ight]$.uinfo	Each element in the files array has a uinfo object associated with it, as described in "Some common JavaScript variables" on page 34. This uinfo object describes the user's permissions for the volume on which that file resides.
Accepted Form variables	
	None

UNIX systems

/usr/etc/webnative/styles/basket/style/showbasket.html

Windows systems

 $C:\Program\ Files\Xinet\Web\Native\Admin\styles\basket\style\showbasket.html$

Streaming files to a browser

On Unix systems, /usr/etc/webnative/streamfile
On Windows systems, C:\Program Files\Xinet\WebNative\Bin\streamfile.exe

The streamfile CGI is used to stream a file of arbitrary type to the user's Web-browser.

Command summary:

streamfile [-a][-cd] mimetype filename

The table below shows details of streamfile arguments and variables:

 Table 3-19
 streamfile arguments and variables

Variable	Definition
-a	If the -a argument is given, then the <i>streamfile</i> CGI will attach the file specified as a MIME attachment, rather than have it comprise the body of the message.
-cd	Causes streamfile to use the Content-Disposition HTTP header to name the file, instead of Content-Type. This increases compatibility with Internet Explorer on Windows.
mimetype	The MIME-type of file to be streamed. This can also be the value -pdf for PDF files, or -html for HTML files.
filename	The name of the file to be streamed.

Table 3-19 streamfile arguments and variables

Variable	Definition
JavaScript variables	
	None
Accepted Form variables	
	None

None.

Sending files to a WebNative server

On UNIX systems, /usr/etc/webnative/upload
On Windows systems, C:\Program Files\Xinet\WebNative\Bin\upload.exe

The *upload* CGI is used to send files to the WebNative server. A file may be encoded before sending, using a number of Macintosh "file-flattening" encodings, or it may be transmitted as merely the data segment. Typically, this is all handled with the <INPUT TYPE=file> HTML form widget. Hence, casual developers need not concern themselves with the actual data transmission. Additionally, the upload CGI can perform complex, script-based post-upload operations as well as generate detailed reports describing the upload.

Command summary:

```
upload [-f] [-r] [-c] [-b] [-nohead] [-nofoot]
[-style style] path
```

The table below shows details of upload arguments and variables:

Table 3-20 upload arguments and variables

	Variable	Definition
-f		If the <code>-f</code> argument is specified, the <i>upload</i> CGI will print its support HTML rather than its <i>frameset</i> , provided the <i>frameset</i> exists. If the <i>frameset</i> exists and the <code>-f</code> argument is omitted, the <i>frameset</i> will be printed. If the <i>frameset</i> does not exist, the <code>-f</code> argument will have no effect.
-r		If the -r flag is given, then the <i>upload</i> CGI will ignore all Finder comments associated with the file, regardless of whether they were transmitted.
-c		If the -c argument is given, then the file specified in path will only have its <i>Desktop</i> and <i>Finder</i> information updated.

 Table 3-20
 upload arguments and variables

Variable	Definition
-b	If the -b argument is given, then the file specified in path will be decoded on the server using <i>kunarc</i> .
-nohead	If -nohead is given, then the user's header.html, stored in his or her WebNative user directory, will not be printed.
-nofoot	If -nofoot is given, then the user's trailer.html, stored in his or her WebNative user directory, will not be printed.
-style <i>style</i>	The upload CGI can dynamically change Styles by specify ing the -style argument and the name of the Style to use
path	The directory in which to upload files or, if the $-c$ or $-b$ argument is given, the file to act upon.
JavaScript variables	
uinfo	Please see <u>"Some common JavaScript variables" on page 3</u> for a description of the uinfo variable.
dir	The dir variable contains the full path passed into the CO upon invocation.
htmldir	The htmldir variable contains a Macintosh-formatted version of the path specified in the dir variable.
dirobj	identical to dir object in "Some common JavaScript variables" on page 34.
Note: If an upload report w above, as well as the follow	as generated, it will contain all of the variables described ring variables.
numfiles	The number of files uploaded to the server.
uploads	The uploads variable points to an array of objects representing each file uploaded to the server. Each object is described below. Note: In the following descriptions, i refers to any arbitrary object within the array. • uploads [i] .pathname — the path to the file on the server uploads [i] .href — a pre-prepared URL for the file • uploads [i] .filename — an HTML-friendly name for the file • uploads [i] .bytes — the size of the file, measured in bytes • uploads [i] .comments — the comments specified for the file, if any
REMOTE_USER	The username of the user who uploaded the files

 Table 3-20
 upload arguments and variables

Variable	Definition
DOWNLOADTIME	The time the upload occurred.
Accepted Form variables	
comments	If desired, the comments form variable can contain new Finder comments for the file being uploaded. Any comments in the comment form variable will override those already in the encoded file.
creation_date	Can be used to overwrite a file's creation date or to give a creation date to a created folder. Date must be in Apple-Share format.
dbkeyword <i>XX</i>	If supplied, the upload CGI will attempt to apply the value of this field to the newly-uploaded file. For the purposes of this documentation, <i>xx</i> represent the keyword ID for the metadata field to be modified.
dir	The dir form variable should contain the name of the directory in which the uploaded files will be stored.
dir_end	Indicates that an application has finished uploading a directory and that trigger processing should be engaged.
dir_start	Indicates that an application is beginning to upload a directory and that trigger processing should be suspended until notified.
filedata	The filedata form variable should contain an encoded version (BinHex or AppleSingle encoding, for example) of the file or the file's data segment. Note: The filedata form variable may be enumerated (filedata1, filedata2, etc.), allowing multiple files to be uploaded.
modification_date	Can be used to overwrite a file's modification date or to give a modification date to a created folder. Date must be in AppleShare format.
newdir	If present, will create a new directory with a name equal to its value.
overwrite	With a value of 1 or true, will cause the upload CGI to overwrite existing files when file-name conflicts arise. Omitting it or giving it a value other than 1 or true will engage default behavior, which is to append a numerical suffix to the uploaded file's name.

 Table 3-20
 upload arguments and variables

Variable	Definition
reportname	If reportname is submitted and has a value, then the upload CGI will generate a report describing the upload and place it in the same directory as the uploaded file. This report will have a name containing the value of this form variable, followed by a unique id and the .html extension.

On UNIX systems

/usr/etc/webnative/styles/upload/style/upload.html
/usr/etc/webnative/styles/upload/style/frameset.html (optional)

On Windows systems

C:\Program Files\Xinet\WebNative\Admin\styles\upload\style\frameset.html (optional)

The *upload.script* file

If present the *upload* CGI will execute the *upload.script* file. User-defined scripts must implement the following arguments.

Command summary:

upload.script [-r report] user dirname filename1 filename2 ...

The table below shows details of *upload.script arguments* and *variables*:

Table 3-21 upload.script arguments and variables

Variable	Definition
-r report	If a report was generated by the upload CGI, then it will execute the script with the -r argument, which is immediately followed by the path to the report.
user	The user's username is the first non-optional argument passed to the script.
dirname	The directory to which to files were uploaded
filename1 filename2	Any other arguments to the CGI will be the names of the files uploaded.

Corresponding HTML/script files

On UNIX systems

- /usr/etc/webnative/styles/upload/style/upload.html
- /usr/etc/webnative/styles/upload/style/frameset.html (optional)
- /usr/etc/webnative/styles/upload/style/upload.script (optional)
- /usr/etc/webnative/styles/upload/style/postupload.html (optional)
- /usr/etc/webnative/styles/upload/style/uploadreport.html (optional)

On Windows systems

- C:\Program Files\Xinet\WebNative\Admin\styles\upload\style\upload.html
- C:\Program Files\Xinet\WebNative\Admin\styles\upload\style\frameset.html (optional)
- C:\Program Files\Xinet\WebNative\Admin\styles\upload\style\upload.script (optional)
- C:\Program Files\Xinet\WebNative\Admin\styles\upload\style\postupload.html (optional)
- C:\Program Files\Xinet\WebNative\Admin\styles\upload\style\uploadreport.html (optional)

Employing WebNative Uploader from an AppleScript

Xinet Uploaders provide an efficient drag-and drop mechanism for clients to upload files to a WebNative Suite or WebNative Portal server. It also allows users to associate metadata with uploaded files. WebNative Uploader now supports AppleScript, which allows you to automate its use in your workflow. For more information on what is possible using AppleScript, open the dictionary from within *Script Editor*. Figure 3-2 presents this part of the *Uploader* suite:



Figure 3-2 *Uploader* library

WebNative Portal APIs

BROWSE— listdir equivalent

Receives files/folders lists from WebNative Venture servers for display in a web browser. Based on input parameters, can also update/change/add metadata.

Table 4-1BROWSE input parameters

Input parameter	What it does
_REQUEST['path']	Full path to folder on WebNative Venture server from server root
_REQUEST['view']	Icon/short/long view. Sets the user's current view to the selected value. _REQUEST['view'] linked to _SESSION['VIEW'].
_REQUEST['show_columns']	Sets the number of columns to use for files in icon, short or custom templates. _REQUEST['show_columns'] linked to _SESSION['SHOW_COLUMNS'].
_REQUEST['show_rows']	Sets the number of rows to use for files in all BROWSE templates. _REQUEST['show_rows'] linked to _SESSION['SHOW_ROWS']
_REQUEST['show_index']	Sets the file display index point from paginationREQUEST['show_index'] linked to _SESSION['SHOW_INDEX']
_REQUEST['show_rows_dirs']	Sets the number of rows to use for folders in all BROWSE templates. _REQUEST['show_rows_dirs'] linked to _SESSION['SHOW_ROWS_DIRS']
_REQUEST['show_index_dirs']	Sets the folder display index point from pagination. _REQUEST['show_index_dirs'] linked to _session['show_index_dirs']

 Table 4-1BROWSE input parameters

• •	
Input parameter	What it does
_REQUEST['server']	Base64_encoded string of the WebNative server's IP address or domain name. For multi-server setup, _REQUEST['server'] linked to _SESSION['SERVER']
_REQUEST['siteurl']	Base64_encoded string of the current template set base folder. Example: http://127.0.0.1/House yields base64_encode('House') Example: http://127.0.0.1/ yields NULL
_REQUEST['sort']	Sorts the files by any TAG defined in the <i>\$files_info</i> array. Example: <i>File Type</i> ; sort=FILE_TYPE. Example: <i>Keyword</i> ; sort=KEYWORD_VALUE
_REQUEST['tmpl']	Template specified. if _REQUEST['releasetmpl'] is not specified, the template remains for the user session or until a change is specified by setting _REQUEST['tmpl'] again. REQUEST['tmpl'] linked to _SESSION['TMPL']['BROWSE']
_REQUEST['releasetmpl']	When used with _REQUEST['tmpl'], prevents \$_SESSION['TMPL'] ['IMAGEINFO'] from linking.
_REQUEST['win']	The <i>width:height</i> of the user's browser window. Used to calculate columns when set to <i>auto</i> .
_REQUEST['submitcomment']	Process metadata input
_REQUEST['AIComment'][{FILEID}]	IPTC comments field
_REQUEST['keyword{KWID}'][{FILEID}]	Sets a metadata field value other then formatted date values. (See below.) Example: when keyword ID is 278 and file ID is 1623, _REQUEST['keyword278'][1623]
_REQUEST['date{KWID}'][{FILEID}][0]	<i>Year</i> value
_REQUEST['date{KWID}'][{FILEID}][1]	Month value
_REQUEST['date{KWID}'][{FILEID}][2]	Day value
_REQUEST['date{KWID}'][{FILEID}][3]	Hour value
_REQUEST['date{KWID}'][{FILEID}][4]	Minute value

 Table 4-1BROWSE input parameters

Input parameter	What it does
_REQUEST['date{KWID}'][{FILEID}][5]	Seconds value
_REQUEST['date{KWID}'][{FILEID}][6]	AM/PM value for 12-hour formats
_REQUEST['version']	Display the current Xinet WebNative Portal version in the user's browser window

IMAGEINFO—imageinfo equivalent

Receives file/folder detailed information from WebNative Venture servers for display in a web browser. Based on input parameters, can also update/change/add metadata or process an image order.

Table 4-2IMAGEINFO input parameters

Input parameter	What it does
_REQUEST['file']	Full path to file/folder on WebNative Venture server from server root.
_REQUEST['server']	Base64_encoded string of the WebNative Venture server's IP address or domain name. For multi-server setup, _REQUEST['server'] linked to _SESSION['SERVER']
_REQUEST['siteurl']	Base64_encoded string of the current template sets base folder. Example: http://127.0.0.1/House yields base64_encode('House') Example: http://127.0.0.1/ yields NULL
_REQUEST['tmpl']	Template specified. If _REQUEST['releasetmpl'] is not specified, the template remains for the user session or until a change is specified by setting _REQUEST['tmpl'] again. _REQUEST['tmpl'] linked to _SESSION['TMPL']['IMAGEINFO'].
_REQUEST['releasetmpl']	When used with _REQUEST['tmpl'], prevents \$_SESSION['TMPL']['IMAGE-INFO'] from linking.
_REQUEST['ipdf']	WebNative-Venture-style path to file. Sets _REQUEST['nonav'] = true. _REQUEST['ipdf'] links to _REQUEST['file']

 Table 4-2IMAGEINFO input parameters

Input parameter	What it does
_REQUEST['action']	When value = del, runs file management delete file process. Usually only used with versions. Requires both: _REQUEST['filepath'], the full path to file on WebNative Venture server from server root, and _REQUEST['filename'], the file name.
_REQUEST['versions']	True/false. Get versions data from Web- Native Venture server for _REQUEST['file'].
_REQUEST['links']	True/false. Get linked files data from the WebNative Venture server forREQUEST['file'].
_REQUEST['nonav']	Turns off navigable tags: {SBB}, {FM}, {PB}, {NB}, etc.
_REQUEST['process']	Process image order input. See IMAGEORDER for input parameters.
_REQUEST['submitcomment']	Process metadata input.
_REQUEST['AIComment'][{FILEID}]	IPTC comments field
_REQUEST['keyword{KWID}'][{FILEID}]	Sets a metadata field value, other than formatted date values. (See below.) Example when keyword ID is 278 and file ID is 1623, _REQUEST['keyword278'] [1623]
_REQUEST['date{KWID}'][{FILEID}][0]	Year value
_REQUEST['date{KWID}'][{FILEID}][1]	Month value
_REQUEST['date{KWID}'][{FILEID}][2]	Day value
_REQUEST['date{KWID}'][{FILEID}][3]	Hour value
_REQUEST['date{KWID}'][{FILEID}][4]	Minute value
_REQUEST['date{KWID}'][{FILEID}][5]	Second value
_REQUEST['date{KWID}'][{FILEID}][6]	AM/PM value for 12 hour formats
_REQUEST['version']	Display the current Xinet WebNative Portal version in the user's browser window

SEARCHOPTIONS—searchengine equivalent

Provides searching options from WebNative Venture servers for display in a web browser.

 Table 4-3SEARCHOPTIONS input parameters

Input parameter	What it does
_REQUEST['path']	Full path to folder on WebNative Venture server from server root.
_REQUEST['searchallservers']	If true, all WebNative-Venture-enabled volumes from all servers configured for access within config.inc.php will be searched.
_REQUEST['searchallvols']	If true, all WebNative-Venture-enabled volumes are searched.
_REQUEST['server']	Base64_encoded string of the WebNative server's IP address or domain name. Required for multi-server setup. _REQUEST['server'] linked to _SESSION['SERVER'].
_REQUEST['siteurl']	Base64_encoded string of the current template set base folder. Example: http://127.0.0.1/House yields base64_encode('House') Example: http://127.0.0.1/ yields NULL
_REQUEST['tmpl']	Template specified. If _REQUEST['releasetmpl'] is not specified, the template remains for the user session or until a change is specified by setting _REQUEST['tmpl'] again. _REQUEST['tmpl'] linked to _SESSION['TMPL']['BROWSE'].
_REQUEST['releasetmpl']	When used with _REQUEST['tmpl'], prevents \$_SESSION['TMPL']['IMAGE-INFO'] from linking.
_REQUEST['addfield']	Add searchoptions field to view.
_REQUEST['removefield_n']	Remove searchoptions field from view.
_REQUEST['Clear']	Clear all selected search options.
_REQUEST['actionsearch']	True = perform search
_REQUEST['SEARCHFIELD']['FIELD- NAME'] and _REQUEST['FIELDNAME']	Both are allowable for all search criteria submissions listed below:
_REQUEST['SEARCHFIELD']['FILEDNAME']	Used for documentation purposes only

 Table 4-3SEARCHOPTIONS input parameters

Input parameter	What it does
_REQUEST['SEARCHFIELD']['DBSEAR-CHALL']	Value to search against all fields
_REQUEST['SEARCHFIELD']['DBSEARCH-LOGIC']	0/1 for And/Or
_REQUEST['SEARCHFIELD']['FILENAME']	Value to search against file and/or folders
_REQUEST['SEARCHFIELD'] ['FILENAMELOGIC']	0
_REQUEST['SEARCHFIELD']['PATHSEARCH-TYPE']	1 = Contains 2 = Starts With -1 = Has Any (Must be Full-Text enabled)
_REQUEST['SEARCHFIELD']['PATHTYPE']	1 = Files 2 = Folders 3 = Files and Folders
_REQUEST['SEARCHFIELD'] ['PATHTYPE-LOGIC']	0
_REQUEST['SEARCHFIELD']['FILETYPE']	-1 = Images -2 = Non Images -3 = PDF -4 = QUARK -7 = InDesign 1 = All Types PIX = Alias PIX ArtP = Art Pro CT CT = Barco CT CT01 = Contex CT CTos = Crosfield DA{M = Dalim TILE = Eclipse Tile EPSF = EPSF GIFf = GIF PEG = JPEG BMP = MSWin BMP PCDI = Photo CD 8BPS = Photoshop NativeCT = Scitex CT LINE = Scitex LW SGI = SGI Imagelib SUNR = Sun Raster TIFF = TIFF XWND = X Windows Dump
_REQUEST['SEARCHFIELD'] ['FILETYPELOGIC']	0/1 for <i>And/Or</i>

 Table 4-3SEARCHOPTIONS input parameters

Input parameter	What it does
_REQUEST['SEARCHFIELD'] ['SELECTEDVOL']	1 = Online Files2 = Archive Files3 = Online and Archived files
_REQUEST['SEARCHFIELD'] ['SELECTEDVOLLOGIC']	0
_REQUEST['SEARCHFIELD'] ['DATE']['MONTH']	Month value
_REQUEST['SEARCHFIELD'] ['DATE']['DAY']	Day value
_REQUEST['SEARCHFIELD'] ['DATE']['YEAR']	Year value
_REQUEST['SEARCHFIELD']['DATELOGIC']	0/1 for <i>And/Or</i>
_REQUEST['SEARCHFIELD']['DATETYPE']	1 = Created 2 = Modified 3 = Last Accessed
_REQUEST['SEARCHFIELD']['DATEON']	on = search on DATE input values
_REQUEST['SEARCHFIELD'] ['DATEWHENCE']	1 = Since 2 = Before 3 = On 8 = Is Null
_REQUEST['SEARCHFIELD']['COMMENT']	Comment field value
_REQUEST['SEARCHFIELD'] ['COMMENTLOGIC']	0/1 for <i>And/Or</i>
_REQUEST['SEARCHFIELD'] ['DBSEARCHALLKEYWORD']	Value to search against all keyword fields
_REQUEST['SEARCHFIELD'] ['DBSEARCHALLLOGIC']	0/1 for <i>And/Or</i>
_REQUEST['SEARCHFIELD'] ['DBSEARCHKEYWORD{KWID}']	Metadata field search Value, other than formatted date values. (See below.)
_REQUEST['SEARCHFIELD'] ['DBSEARCHDATE{KWID}'][YEAR]	<i>Year</i> value
_REQUEST['SEARCHFIELD'] ['DBSEARCHDATE{KWID}'][MONTH]	Month value
_REQUEST['SEARCHFIELD'] ['DBSEARCHDATE{KWID}'][DAY]	Day value
_REQUEST['SEARCHFIELD'] ['DBSEARCHDATE{KWID}'][HOUR]	Hour value

 Table 4-3SEARCHOPTIONS input parameters

Input parameter	What it does
_REQUEST['SEARCHFIELD'] ['DBSEARCHDATE{KWID}'][NUTE]	Minute value
_REQUEST['SEARCHFIELD'] ['DBSEARCHDATE{KWID}'][SECS]	Seconds value
_REQUEST['SEARCHFIELD'] ['DBSEARCHLOGIC{KWID}']	0/1 for And/Or
_REQUEST['SEARCHFIELD'] ['DBSEARCHFLAG{KWID}']	For Text Fields: -1 = Has Any (Full-Text fields only) 0 = Contains 1 = Equals 2 = Starts With 3 = Ends With 4 = Regular Expression 5 = Full Text (Full-Text fields only) 8 = Is Null For Date Fields: 402 = Before 404 = Since 405 = On For Integer Fields: 201 = Less Then 203 = Greater Then 205 = Equals 8 = Is Null
_REQUEST['version']	Display the current Xinet WebNative Portal version in the user's browser window.

SEARCHRESULTS— searchengine equivalent

Search results, files/folders lists, from WebNative Venture servers for display in a web browser. Based on input parameters, can also update/change/add metadata.

Table 4-4SEARCHRESULTS input parameters

Input parameter	What it does
_REQUEST['view']	Icon/short/long. Sets the users current view to the selected value. _REQUEST['view'] linked to _SESSION['VIEW']

 Table 4-4SEARCHRESULTS input parameters

Input parameter	What it does
_REQUEST['show_columns']	Sets the number of columns to use for files in icon, short or custom templates. _REQUEST['show_columns'] linked to _SESSION['SHOW_COLUMNS']
_REQUEST['show_rows']	Sets the number of rows to use for files in all BROWSE templates. _REQUEST['show_rows'] linked to _SESSION['SHOW_ROWS']
_REQUEST['show_index']	Sets the file-display index point from paginationREQUEST['show_index'] linked to _SESSION['SHOW_INDEX']
_REQUEST['show_rows_dirs']	Sets the number of rows to use for folders in all BROWSE templates. _REQUEST['show_rows_dirs'] linked to _SESSION['SHOW_ROWS_DIRS']
_REQUEST['show_index_dirs']	Sets the folder-display index point from pagination. _REQUEST['show_index_dirs'] linked to _SESSION['SHOW_INDEX_DIRS']
_REQUEST['skipcount']	Actionmore/actionless display the next or previous page of results-to-display. Used when Allow_SearchAll is disabled.
_REQUEST['sort']	Sorts the files by any TAG defined in the \$files_info array. Example: File Type; sort=FILE_TYPE. Example: Keyword; sort=KEYWORD_VALUE
_REQUEST['tmpl']	Template specified. If _REQUEST['releasetmpl'] is not specified, the template remains for the user session or until a change has been specified by setting _REQUEST['tmpl'] again. _REQUEST['tmpl'] linked to _SESSION['TMPL']['BROWSE']
_REQUEST['releasetmpl']	When used with _REQUEST['tmpl'], prevents \$_SESSION['TMPL']['IMAGE-INFO'] from linking.
_REQUEST['win']	The width:height of the user's browser window. Used to calculate columns when set to auto.

 Table 4-4SEARCHRESULTS input parameters

Input parameter	What it does
_REQUEST['submitcomment']	Process metadata input as explained below.
_REQUEST['AIComment'][{FILEID}]	IPTC comments field
_REQUEST['keyword{KWID}'][{FILEID}]	Sets a metadata field value, other than formatted date values. (See below.) Example: when keyword ID is 278 and file id is 1623: _REQUEST['keyword278'] [1623]
_REQUEST['date{KWID}'][{FILEID}][0]	Year value
_REQUEST['date{KWID}'][{FILEID}][1]	Month value
_REQUEST['date{KWID}'][{FILEID}][2]	Day value
_REQUEST['date{KWID}'][{FILEID}][3]	Hour value
_REQUEST['date{KWID}'][{FILEID}][4]	Minute value
_REQUEST['date{KWID}'][{FILEID}][5]	Seconds value
_REQUEST['date{KWID}'][{FILEID}][6]	AM/PM value for 12-hour formats
_REQUEST['version']	Display the current Xinet WebNative Portal version in the user's browser window

IMAGEORDER— imageorder equivalent

Based on input parameters, process a Custom Image Order.

Table 4-5*IMAGEORDER* input parameters

Input parameter	What it does
_REQUEST['file']	Full path to file/folder on the WebNative Venture server from server root
_REQUEST['server']	Base64_encoded string of the WebNative server's IP address or domain name. For multi-server setup, _REQUEST['server'] linked to _SESSION['SERVER'].

 Table 4-5IMAGEORDER input parameters

Input parameter	What it does
_REQUEST['siteurl']	Base64_encoded string of the current template sets base folder. Example: http://127.0.0.1/House yields base64_encode('House') Example: http://127.0.0.1/ yields NULL
_REQUEST['tmpl']	Template specified. If _REQUEST['releasetmpl'] is not specified, the template remains for the user session or until a change is specified through resetting _REQUEST['tmpl']. _REQUEST['tmpl'] linked to _SESSION['TMPL']['IMAGEINFO']
_REQUEST['releasetmpl']	When used with _REQUEST['tmpl'], prevents \$_SESSION['TMPL']['IMAGE-INFO'] from linking.
_REQUEST['webready']	Output is ready for display in a web page from an HTML tag

Table 4-5IMAGEORDER input parameters

Input parameter	What it does
REQUEST['format']	File format for output:
	 eps* Encapsulated PostScript
	• tif Tag Image File Format (TIFF)
	 gif Composure's Graphics Interchange Format
	 jpg* Native JPEG, "lossy" compression format
	 web*Either GIF (if image is masked or clipped) or JPEG
	• bmp MS Windows BitMaP (aka DIB) format
	 png Portable Network Graphic format
	Those formats marked with * all take an optional number following the format (e.g., -x eps83). This number sets a JPEC compression factor (normally off for EPS format). The JPEG compression factor is a number with a useful range between 5 and 95, where 5 creates a highly-compressed image that doesn't look very much like the original, and 95 produces a less-compressed image, which will look
	very much like (but not exactly like) the original. When JPEG output format is requested, the default compression factor is 75. Requesting EPS format with a compression value of 0 will cause the output to be HEX encoded (instead of the default BINARY); but, not JPEG compressed.
REQUEST['colorspace']	Process the output to a colorspace: Grey, RGB, LAB or CMYK.
REQUEST['pict']	Extract the PICT image if available.
REQUEST['inputicc']	Sets an input ICC profile pathname, which overrides any other profile included within the image.

Table 4-5IMAGEORDER input parameters

Input parameter What it does

REQUEST['outputicc']

Sets an output ICC profile pathname. This option enables ICC color correction if one of the following conditions is met (precedence in the order listed):

- 1. An input profile has been supplied with the inputticc option
- 2. The image has an embedded profile
- 3. A default profile has been specified on the WebNative server for the image format and colorspace in the file /var/adm/appletalk/coloropts (UNIX) or C:\Program Name\Xinet\FullPress \Admin\coloropts (Windows). (FullPress creates/updates the coloropts file whenever the administrator saves default ICC profiles in a Print Queue for various formats.)
- 4. The input image is in LAB colorspace.

Sets the Rendering Intent for ICC color conversion. Normally, the default Rendering Intent supplied in the profile is used. However, it can be overridden with this flag, as long as the profile that is being used supports the substituted Rendering Intent. If the requested Rendering Intent isn't supported, the profiles' default will be used. Current valid Rendering Intents include:

- 0 = Perceptual
- 1 = Relative Colorimetric
- 2 = Saturation
- 3 = Absolute Colorimetric

REQUEST['renderingintent']

Table 4-5IMAGEORDER input parameters

Input parameter

REQUEST['usm']

What it does

Adds an Unsharp Mask (sharpening) filter over the image. This option takes one argument, which can be one of the following:

- The number θ causes the sharpening parameters to be read from the default system table (a file named default in the /var/adm/appletalk/usm directory (UNIX) or $C:\Program\Files\Xinet\FullPress\Admin\usm\directory$ (Windows).
- You can supply a file name and the table will be read from that file.
- The argument can alternatively be *I*-to-4 comma-separated numbers giving the parameters for the filter.

The sharpening parameters include:

The *radius*, in pixels, of the blurring Aperture, which must be greater than 0.5 (and has no default)

A percentage strength of the sharpening values to apply (default is 100), where anything θ or less disables the Unsharp Mask filter

A *lower threshold, in pixel intensity* (0-255), below which no sharpening will occur (default is 0).

An *upper limit on the sharpening* that will be applied to the image (default is 255, and any number out of the 1-255 range will be ignored).

A value of 255 means no limit, a value of 10 means limit the maximum amount of change to a pixel to 10 (in component intensity value units, which are 0–255).

Note that the Unsharp Mask parameters differ from PhotoShop in the radius only: add one to a PhotoShop Unsharp Mask Radius to get the equivalent sharpening.

 Table 4-5IMAGEORDER input parameters

_	
Input parameter	What it does
_REQUEST['crop']	The argument specifies a rectangle on the source image, in pixels, numbered from (0,0), which is the pixel in the upper-left corner of the image. The coordinates cropx (horizontal) and cropy (vertical) provide the coordinates of the first pixel that will be placed in the upper-left corner of the output image. The pair, cropw (width) and croph (height) give the number of pixels of the original image to include in the cropped image.
_REQUEST['watermark']	Turns on watermarking for the output image. This turns on automatically if the FullPress installation has not been licensed. By default, a watermark is tiled, pixel-for-pixel across and down the image as many times as it will fit.
_REQUEST['dpi']	Output resolution to a DPI (dots per inch)
_REQUEST['scale']	Images may be scaled (up or down) by supplying the -s option with the (floating point) percentage of the image size (in pixels) to output.
_REQUEST['width']	Scale to a specific width
_REQUEST['height']	Scale to a specific height
_REQUEST['backcolor']	Sets the background color, when a Masked or Clipped image is output in a format that does not support masks or Clipping paths to the given color.
_REQUEST['spotoff']	Spot colors will be merged with the color- space channels and output in the image. This option excludes spot channels.
_REQUEST['clipping']	Causes all Masks and Clipping paths to be ignored.
_REQUEST['preview']	This option causes imageorder to search for a "preview" image before reading in the "full-scale" image.
_REQUEST['pctiff']	If an EPS image has a PC-style TIFF preview, this option causes the TIFF to be read instead of the EPS.

Table 4-5IMAGEORDER input parameters

Input parameter	What it does
_REQUEST['nonav']	Turns off navigable tags: {SBB}, {FM}, {PB}, {NB}, etc.
_REQUEST['process']	Required to start process
_REQUEST['version']	Display the current Xinet WebNative Portal version in the user's browser window

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