Pathfinder Help

Configuring Pathfinder

- Click on the **Config** button to display Pathfinder's Configuration window, from which you can
 - Specify your callsign, which is needed for some QSL searches
 - Leave the Hide script error notification box unchecked
 - o If you have more than one monitor, check the **Use multiple monitors** box
 - Leave the Display information in title bars box checked
 - Leave the Log debugging info box unchecked
 - If desired, setup Pathfinder to respond to callbook lookup directives from DXKeeper by querying QRZ.com:
 - Specify the Username and Password to your free QRZ.com account; after changing your username or password, you can manually log in by clicking the Login button
 - Indicate whether Pathfinder should automatically log in to QRZ.com on startup
 - Indicate whether Pathfinder should warn you when a callbook lookup directives has been executed without being logged into QRZ.com, which limits the information returned to a name and address
 - Setup Pathfinder to access HamCall.net by specifying the Username and Password to your Free HamCall.net account
 - In the Internet Explorer panel, click the Update Emulation button; doing so will add an entry to the Windows Registry that enables Pathfinder to display web pages using the full capabilities of the version of Internet Explorer installed on your computer. Depending upon the version of Windows you are running, a small User Account Control window seeking your approval may appear; this window may only be visible on the Windows Taskbar, in which case you should open it from there. After you approve this action, Pathfinder will offer to terminate so that you can restart it with the new Windows Registry setting in force.

Searching for QSL information on the web

- Enter a target callsign, and then click one of the 12 search buttons to search its associated site
- Striking keys F1 to F6 is equivalent to clicking on a top-row search button; F7 to F12, a bottom-row search button
- Strike the Enter key to search the most recently used site
- Click on the HC button to search the most recently used site for the target callsign's home callsign (only available after a site has been searched for the target callsign and the target callsign is different than its home callsign)
- Depressing the Alt key while striking clicking a search button or striking F7 to F12 initiates a search for the target callsign's home callsign
- Click on the **Stop** button or strike the **Esc** key to terminate a search
- Click on the X button or strike the Home key to clear the target callsign
- CTRL-click the X button to clear the target callsign and the results display

Country-specific callbooks

- After you enter a callsign, a country-specific callbook search button will appear if a web-accessible callbook for the callsign country is available
- Striking the numeric keypad / key is equivalent to clicking on the country-specific callbook search button **Search library updates**

On startup Pathfinder displa

• On startup, Pathfinder displays any newly available or updated searches; to update your search library, click the **Update** button. If you haven't performed a search library update in awhile, you can download the entire search library.

Modifying web searches

 Depress the Ctrl key while clicking on a search button to change the search associated with a search button, or to modify a search

Searching for QSL information in the Flying Horse Radio Amateur Callbook

• Enter a target callsign, and then click the **RAC** button to search for QSL information

Responding to requests from other DXLab applications

- DXKeeper, SpotCollector, and WinWarbler are all capable of sending callsigns to Pathfinder's Target Callsign textbox
- If you want Pathfinder to automatically perform a search when a callsign arrives from one of these applications, then depress the **Ctrl** key while clicking on the appropriate search button and check the **Auto** box in its Pathfinder Search dialog; when you click the **OK** button, the caption of this search button will be underlined to indicate that it will automatically be invoked.
- DXLab applications can direct Pathfinder to perform an online callbook lookup for a specified callsign; Pathfinder navigates to the specified site and displays a web page containing detailed information, extracts a subset of this information (e.g. name, QTH, address, state, province, country, grid square), and returns it to the requesting application

If you have questions or suggestions, please send them via email to the DXLab reflector.

Pathfinder Download and Installation

Installing or Upgrading the DXLab Launcher

The **DXLab Launcher** automates the installation of new DXLab applications, including Pathfinder, and the upgrading of already-installed DXLab applications.

If you're an aspiring DXLab user who has **not installed any DXIab applications** on your PC, or if you're a longtime DXLab user who has **never installed the Launcher**, then installing the Launcher will make it easy to install new DXLab applications and keep them up to date as upgrades are released.

Step-by-step guides for installing the Launcher are available, both in HTML for browsing (<u>http://www.dxlabsuite.com/dxlabwiki/InstallLauncher</u>) and in PDF for printing (<u>http://www.dxlabsuite.com/Download%20and%20Installation.pdf</u>).

You can uninstall Pathfinder by running the Add/Remove Programs applet on the Windows control panel. If you have questions or suggestions, please post them on the DXLab reflector at http://groups.yahoo.com/group/dxlab.

If you're not a member, you can sign up at http://www.dxlabsuite.com/reflector.htm.

Pathfinder's Dynamic Searches

One second after you enter a Target Callsign, Pathfinder consults a built-in prefix table to determine the associated DXCC country. If Pathfinder knows of a web-accessible callbook for this country, it presents a dynamic search button directly beneath the Target Callsign textbox.

As illustrated in the Screen Shot below, Pathfinder labels the dynamic search button with the country's DXCC prefix and the letters "CB," an abbreviation for "callbook."

Pathfinder 4.2.2: results from	IK3QAR Q5L da	tabase for 3	39C				
? × 2004 ▼ 3b9c ● ● ● ●	Buck QRZ RW1QM DXC OZ7C R IK3QAR WM7D K4UTE DXS Google QM Mult Octavia						
Your Osl manager search engine on the Net							
IK3QAR Home Qsl Inf	o Home Mar	ager's are	a Contacts			You are vis	sitor nr. 164048
Site Status Currently there are:	3B9C Qsl info						
32531 Managers	Manager	Year	Add. Info		Info By		
2478 Addresses	FSDXA	2004	Rodriguez I	sland (AF-	017) * 18 Ma	r - 14 Apr 2004	FSDXA
Last user update:	#### Your search returned 1 manager(s) + 1 address(es) ####						
				1010			
[0,1000]	FSDXA's Address						
DB last updated on 26 Mar 2004	FSDXA, PO Box 73, Church Stretton, SY6 6WF, England, UK						
Top Searches	Note from IK3QAR [29 Feb 2004]						
→ 3B9C → T13G	This is how QsIs are managed: http://www.fsdxa.com/3b9c/qsl.html						

Clicking on the dynamic search button or striking the insert key invokes the country-specific search. Note that some of these country-specific callbooks are databases, some are simple lists of callsigns that you must manually peruse, and some are hybrids. The Australian callbook, for example, is a database whose entries contain the operator's name, rendered as a hyperlink that navigates to the operator's address.

Dynamic Search is the automatic selection of a search based on the Target Callsign's DXCC country. This enables Pathfinder to query the 30+ country-specific callsign databases and callsign listings presently accessible via the web.

Searches Subfolder

The installation of Pathfinder 3.0 creates a subfolder named Searches within Pathfinder's application folder, and populates this subfolder with several QSL database searches as well as country-specific callbook searches.

You can replace Pathfinder's 12 built-in searches with any of these new searches by using the Load button on the Search Modification dialog box; see page 9 for further instructions.

QSL Database Searches

Site URL

DB0SDX http://www.asp-profi.de/projects/hamradio/qsl/default.asp

Deja News http://www.deja.com/

- eHam <u>http://www.eham.net/callbook/</u>
- IK4LZH <u>http://qsl.425dxn.org/</u>
- T77WI http://www.inthenet.sm/arrsm/query_manager.htm
- WM7D <u>http://www.wm7d.net/</u>

Country-specific Callbooks

Pathfinder's dynamic search mechanism automatically checks your Searches subfolder for the presence of a file whose name matches the Target Callsign's DXCC entity. If you've installed Pathfinder in the folder C:\Program Files\DXLab Suite Pathfinder, then entering VK9NS as the Target Callsign leads Pathfinder to check for the existence of

C:\Program Files\DXLab Suite\Pathfinder\Searches\VK.TXT If this file exists, Pathfinder presents and labels the dynamic search button. Prefix to DXCC mapping is driven by contents of file C:\Program Files\DXLab Suite\Pathfinder\Searches\Prefixes.TXT

New country-specific searches can be added by placing an appropriately named search file into the Pathfinder folder. For example, a copy of WM7D.TXT named K.TXT will cause Pathfinder to display the dynamic search button for American callsigns; clicking on the dynamic search button will search the WM7D data base.

You may modify the prefixes.txt file, but should do so carefully; Pathfinder's parser is both intolerant and cryptic.

DXCC URL

4S <u>http://www.dxlabsuite.com/rssl/4s5.htm</u> <u>http://www.dxlabsuite.com/rssl/4s6.htm</u> <u>http://www.dxlabsuite.com/rssl/4s7a_e.htm</u> <u>http://www.dxlabsuite.com/rssl/4s7f_l.htm</u> <u>http://www.dxlabsuite.com/rssl/4s7m_r.htm</u> <u>http://www.dxlabsuite.com/rssl/4s7s_z.htm</u>

9A <u>http://www.hrs.agram.com/callbook.htm</u>

9M2	http://www.jaring.my/enrich/marts/9m2tmp.html http://www.jaring.my/enrich/marts/9m2trans.html http://www.jaring.my/enrich/marts/9w2trans.html
9M6	http://www.jaring.my/enrich/marts/9m6trans.html http://www.jaring.my/enrich/marts/9m8trans.html http://www.jaring.my/enrich/marts/9w8trans.html
BY	http://www.dxlabsuite.com/by2hit/ebycall.htm
C3	http://www.sta.ad/ura/qsl.htm
СО	http://www.infocom.etecsa.cu/www/frc/dire3.htm
ER	http://www.ournet.md/~arm/QSL.html
ES	http://www.dxlabsuite.com/es5aaw/es_callbook.htm
EW	http://www.dxlabsuite.com/ew2eo/cal_eng.htm
EY	http://www.geocities.com/CapeCanaveral/Hangar/5873/callbook.html
F	http://www.ref.tm.fr/nomenclature/nomenclature.shtml
GU	http://www.guernsey.net/~sgibbs/amateur_radio/gu_calls.html
HS	http://hs-callbook.dhs.org/cgi-bin/search.cfm
JT	http://www.pc.mdlink.de/70223102/JTCALL.TXT
LX	http://www.dxlabsuite.com/lx1no/rl_callb.html
LY	http://www.dxlabsuite.com/Irmd/lycbk.txt
LZ	http://www.pc.mdlink.de/70223102/LZCALL.TXT
ОН	http://oh-callbook.sral.fi/
OL	http://hippo.feld.cvut.cz/cgi-bin/getaddr
ΟZ	http://www.tst.dk/servlet/tstsog/tstsog.resultdetails?post=4
PA	http://www.dxlabsuite.com/pa3esz/nl_hams.html

- PY http://www.carioca.com/ham/manager.htm
- SP <u>http://Tartarus.Phys.US.edu.PL/</u>
- SV <u>http://www.radiomagazine.com/call/call.htm</u>
- T9 <u>http://www.dxlabsuite.com/t93y/callbook.htm</u>
- TF <u>http://www.nett.is/~tf5bw/ira/cqtf/irafeltal.html</u>
- TG <u>http://members.xoom.com/CRAG/Miembros.htm</u>
- VE <u>http://www.rac.ca/callbook/</u>
- VK http://www.aca.gov.au/database/radcomm/licence.htm
- VP9 http://www.bermuda-shorts.com/rsb/callsign.htm
- YL http://www.ltn.lv/~linda/hamlist.htm
- YO <u>http://www.dxlabsuite.com/yo3kaa/yocall.htm</u>
- YS <u>http://www.milian.com/faf/miembros.shtml</u>
- ZS <u>http://www.sarl.org.za/callbook.htm</u>

Kudos to Kurt OE1002419 (<u>http://www.swl.net/oe1002419</u>) for his contributions to both the general and country-specific search repository.

Note that some of the above URLs are unstable - they suddenly become inaccessible and then just as suddenly reappear; as of 10/3/99, both the 9A and OL callbooks are "down". If you notice that one of these has changed in what appears to be a permanent way, please send email to AA6YQ at <u>aa6yq@ambersoft.com</u> so that the search repository can be updated.

If you have questions or suggestions, please send them via email to the DXLab reflector at <u>dxlab@yahoogroups.com</u>.

Assigning a Search to a Button

Each online callbook and QSL database accessible via Pathfinder is described by a small file, referred to as a *search file*. Your copy of Pathfinder maintains its search files in a subfolder named Searches; this subfolder was created and populated when you installed Pathfinder. If you installed Pathfinder in

C:\Program Files\DXLab Suite\Pathfinder,

then the searches subfolder is

C:\Program Files\DXLab Suite\Pathfinder

From time to time, new online callbooks and QSL databases become available. In addition, the location or search parameters for existing online resources sometimes change. You can create or modify your own search files to expand Pathfinder's search capabilities -- see Modifying searches for more information. In addition, you can download search files -- either en masse or individually -- from Pathfinder's Search library as they become available by following these directions.

If a downloaded search file describes a callbook or QSL database that you expect to search frequently, you can assign the search to one of Pathfinder's 12 search buttons via the following steps.

ິStep 1	Directions Hold down the control key while clicking on the search button to which you want the search assigned; the Pathfinder Search dialog box will be displayed.
2	Click the Load button in this dialog box; the Select file from which to load search dialog box will be displayed.
3	Change the Look in: pull-down so that the dialog box displays the contents of Pathfinder's Searches subfolder.
4	Click on the downloaded search file you are assigning to the search button, and then click the Open button; the Select file from which to load search dialog box will be closed.
5	Click the OK button in the Pathfinder Search dialog box. The search button you designated in step 1 will now search the online resource described by the downloaded search file.

If you have questions or suggestions, please send them via email to the DXLab reflector at <u>dxlab@yahoogroups.com</u>.

Modifying Pathfinder Searches

Suppose, for example, that you find DX-IS to be not very useful and would rather replace it with a display of the EU-EW callbook.

Step Directions

- 1 Hold down the control key while clicking on the DX-IS button (or while striking the F12 key) and Pathfinder will present a dialog box that allows you to change all of the search parameters -- from the caption on the search button to the URL, PostData, and Headers -- to whatever you want.
- 2 Place <u>http://www.dxlabsuite.com/ew2eo/cal_eng.txt</u> in the dialog box's URL field, and clear all characters from the PostData and Header fields. The EU-EW callbook does not involve a database search -- its a static text file accessible via this URL.
- **3** Update the Name, Caption, and Tooltip fields to reflect the new search. The dialog box should now look like this:

🗮 Pathfin	der search #12			
Name	EU-EW Callbook	Caption	EW CB	
Tooltip	click to view the Belarus callbook	9		
URL	http://www.qsl.net/ew2eo/cal_e	ng.htm		
Post Data				
Headers	ļ_			
Auto	Г			
	Load Save	Default	ОК	Cancel

Step

Directions, continued

4

Click the OK button, and you'll never be more than one click or keystroke away from the EU-EW callbook. Pathfinder will remember this modified search from one session to the next, even if you upgrade the program.

5 To share this search with friends, click the Save... button in the above dialog box -- you'll be prompted for a filename, into which Pathfinder will store the search parameters.If you send them this file, another Pathfinder user can click the Load... button in the above dialog box -- the result will be as if they'd typed in the search parameters themselves.

It's only necessary to use Save... and Load... if you plan to share searches; Pathfinder automatically remembers your search modifications from session to session using the Windows registry.

Automating a Database Search Automating a database search is more complex:

Is the parameter encoded in the URL?	Some QSL information sources expect parameters like Target Callsign to be encoded in the URL QRZ and Buckmaster, for example. You can usually determine what they expect by using your browser's "View HTML" or "View Source" command. As you might guess by looking at these searches, the string {Target Callsign} in the URL field is replaced by the contents of Pathfinder's Target Callsign textbox before the URL is sent. Similarly, the string {MyCallsign} is replaced by the current user's callsign.
Must you encode and convey specific information as Post Data and Headers?	Other QSL information sources use HTML forms and CGI, which means you must properly encode and convey specific information to the server as Post Data and Headers. {Target Callsign} substitution is provided for the PostData and Header fields. In addition, any string of the form $\{N\}$ where N is a decimal number less than 255 is replaced by a single byte of value N before the field contents are sent.
Discovering what's required	One way to discover what's required is to monitor the interaction between a browser and the search engine with a TCP/HTTP protocol analyzer. Another is to set up a captive web server and then modify the client HTML to send the POST request to that web server.
Restoring a search to "factory" parameters.	The Default button in the modification dialog box restores a search to "factory" parameters. Thus one can experiment freely and then easily put things back the way they were when you first installed Pathfinder.

If you have questions or suggestions, please send them via email to the DXLab reflector at <u>dxlab@yahoogroups.com</u>.

Updating Your Search Library

Each online callbook and QSL database accessible via Pathfinder is described by a small file, referred to as a *search file*. Your copy of Pathfinder maintains its search files in a subfolder named Searches; this subfolder was created and populated when you installed Pathfinder. If you installed Pathfinder in

C:\Program Files\DXLab Suite\Pathfinder

then the searches subfolder is

C:\Program Files\DXLab Suite\Pathfinder\Searches

From time to time, new online callbooks and QSL databases become available. In addition, the location or search parameters for existing online resources sometimes change. You can create or modify your own search files to expand Pathfinder's search capabilities -- see page_9 of this document for more information. In addition, you can download search files -- either en masse or individually -- from Pathfinder's Search library (<u>http://www.dxlabsuite.com/pathfinder/searches</u>) as they become available. The following two sections describe these search file download procedures.

If a downloaded search file describes a country-specific callbook, no further action is required; Pathfinder checks its Searches subfolder whenever you enter a callsign, and thus will reference the new search file when needed.

If a downloaded search file describes a callbook or QSL database that you expect to search frequently, you can assign the search to one of Pathfinder's 12 search buttons by following the instructions on page 8.

To update a search already assigned to one of Pathfinder's search buttons, assign the newly-downloaded search file to the existing button by following the directions on page 8 of this document.

Downloading All Search Files

The following process updates all search files. If you've made modifications to the search files in your Searches subfolder, be sure to make copies before proceeding.

Step	Directions
1	Download the self-extracting executable containing all search files from http://www.dxlabsuite.com/pathfinder/searches/SearchLib.exe
2	When prompted, direct your browser to save this executable file to a temporary location on your hard drive; subfolder C:\Temp is often used for this purpose. Note the name of the executable file being downloaded, as well as the destination subfolder.
3	When the download has finished, initiate self-extraction by double-clicking on the executable file in a Windows Explorer window. The WinZip Self-Extractor dialog box will appear.
4	By default, the self-extractor will place all search files in C:\Program Files\DXLab Suite\Pathfinder\Searches If you installed Pathfinder in C:\Program Files\DXLab Suite\Pathfinder, then this default destination is correct just click the Unzip button. Your Searches subfolder will now contain a full set of up-to-date search files. If you installed Pathfinder elsewhere, modify the Unzip to folder field to designate Pathfinder's Searches subfolder and then click the Unzip button.

Downloading Individual Search Files

Step	Directions
1	Display Pathfinder's Search Library by viewing http://www.dxlabsuite.com/pathfinder/searches

- 2 Find the entry corresponding to the search file you wish to download, and click on it. Your browser will display the search file's contents -- six lines of descriptive information.
- 3 Use your browser's **SaveAs** command (in it' **File** menu) to store the file into Pathfinder's Searches subfolder. If you are updating an existing search file, your browser will ask permission to replace it with the new version; click the **Yes** button.

If the downloaded search file describes a country-specific callbook, no further action is required; Pathfinder checks its Searches subfolder whenever you enter a callsign, and thus will reference the new search file when needed.

If the downloaded search file describes a callbook or QSL database that you expect to search frequently, you can assign the search to one of Pathfinder's 12 search buttons by following the directions on page 8 of this document.

To update a search already assigned to one of Pathfinder's search buttons, assign the newly-downloaded search file to the existing button by following the directions on page 8 of this document.

If you have questions or suggestions, please send them via email to the DXLab reflector.