How to install and configure lsite for the Windows operating system on the ADHOST Server.

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A2.1 Getting Started

The Isite software is already installed on the ADHOST server. Creating a node consists of creating directories to hold the data for your node, copying your metadata XML records to the server, establishing a zserver service uniquely associated with your particular node, and registering the node with the clearinghouse.

A2.1.1 Prepare a Directory Structure

The instructions below were prepared during the process of establishing a clearinghouse node for the Chinese National Marine Data and information Service (NMDIS). In this document, we call the node "nmdis". For your custom installation substitute the name of your node everywhere you see "nmdis".

The steps below will allow you to create and register a node call nmdis. Within the directory E:\lsite2 create a subdirectory, E:\lsite2\nmdis for your node. Copy the zserver.ini and sapi.ini files from a working node directory, say E:\lsite2\npem, for later editing (see section 19.3.2 and 19.3.3). Within E:\lsite2\nmdis create a subdirectory, E:\lsite2\nmdis\bat. Copy the files from a working directory node, say E:\lsite2\npem\bat, to E:\lsite2\nmdis\bat, for later editing.

Create a directory for your metadata xml files in the E:\lsite2\data directory. Call it E:\lsite2\data\pices-nmdis-adhost. Copy your metadata xml files to the E:\lsite2\data\pices-nmdis-adhost directory.

Create a directory for your database files in the E:\lsite2\db directory called E:\lsite2\db\pices-nmdis-adhost.

A2.1.2 Transfer XML files and copy to data directory

FTP your xml files to the anonymous FTP site on the server, E:\PICES FTP Site. Then copy the xml files to the E:\Isite2\data\pices-nmdis-adhost directory.

A2.1.3 Batch Files

Several batch files have been prepared to automate the process of indexing metadata records and verifying the zserver configuration has been successful. These are listed below in Fig. A2.1.

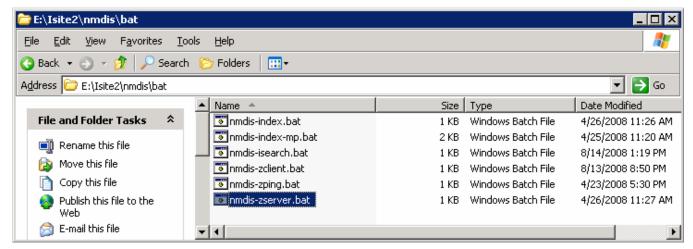


Fig. A2.1 Listing of DOS batch files to automate indexing and verification of zserver installation.

After navigating to the E:\lsite2\nmdis\bat directory, batch files can be executed in a DOS Command window by simply typing their name as shown in Fig. A2.2.

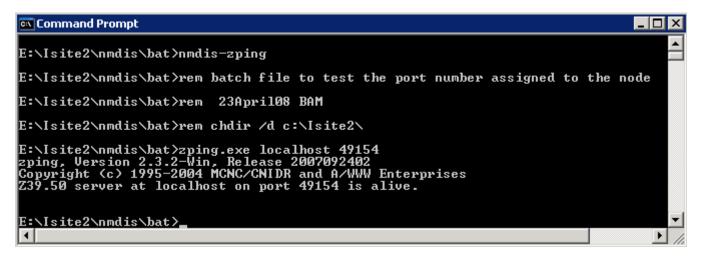


Fig. A2.2. Example of running a DOS batch file in a DOS Command window.

The listed batch files perform the following functions

- nmdis-index.bat automatically performs an index of the metadata records according to the instructions in section A2.2.1.
- nmdis-index-mp.bat automatically creates HTML, TXT and SGML versions of the XML metadata records using the MP Utility.
- nmdis-isearch.bat automatically performs an search against the indexed metadata records according to the instructions in section A2.2.2.
- nmdis-zclient.bat automatically performs a test of the indexed metadata records according to the instructions in section A2.2.2.
- nmdis-zping.bat automatically checks that the zserver service is running on a valid port according to the instructions in section A2.3.5)
- nmdis-zserver.bat installs the zserver as a local process (see section A2.3.4). Note that a local zservice process will terminate once the logon session is terminated.(see section A2.5 for the difference).

You will need to edit all the batch files to change the name of the batch files to correspond to the name you give your node. Also edit the contents of every batch file, changing the nmdis to the name of your node.

A2.2 Build an index

- A2.2.1 lindex
 - Before you can index your metadata files, you must have metadata files in the E:\Isite2\data\pices-nmdis-adhost directory. There should be sample metadata files in the C:\Isite2\data directory already. However, if you want to index your metadata files, then replace the sample metadata files with your MP validated metadata files. You should have four different types of files: .txt, .html, .sgml, and .xml. *_faq.htm files are optional. For lindex to run, you must have at least one xml file.
 - ► Open a command shell.

Note: These programs are built with the Cygwin emulator, so they require DOSstyle paths like e:\Isite2 to be expressed as /cygdrive/e/Isite2.

For this example, we will assume that your database name will be in **bold** and the string you are searching for will be in **bold italics**.

► lindex Command (See Fig. A2.3)

While in the E:\Isite2\nmdis directory, build an index using this command (all on one line):

E:\Isite2\nmdis>Iindex2.exe -d /cygdrive/e/Isite2/db/pices-nmdis-adhost**nmdis**-t fgdc -o fieldtype=/cygdrive/c/Isite2/fgdc.fields /cygdrive/c/Isite2/data/*.xml

Syntax: lindex –d [database] –t [document type] –o [document options] [metadata files]

What does the command do? The indexer goes into folder E:/Isite2/data/picesnmdis-adhost, takes all xml files, using the fgdc.fields document type creates an index database and index files and put them in folder E:/Isite2/db/pices-nmdisadhost.

You can automatically implement the indexing command by running the DOS batch file nmdis-index.bat in the E:\lsite2\nmdis\bat directory using a DOS Command Window.

Command Prompt	×
E:\Isite2\nmdis>Iindex2.exe -d /cygdrive/e/Isite2/db/pices-nmdis-adhost/nmdis -t fgdc -o fieldtype=. cygdrive/c/Isite2/fgdc.fields /cygdrive/e/Isite2/data/pices-nmdis-adhost/*.xml Iindex v2.5.10-Win, Release 2007092402 Building document list The system cannot find the path specified.	<u>_</u>
The system cannot find the path specified. Command failed: del \cygdrive\e\Isite2\db\pices-nmdis-adhost\nmdis.Ø* - No such file or directory Creating new cache [/cygdrive/e/Isite2/db/pices-nmdis-adhost/nmdis.db] Building database /cygdrive/e/Isite2/db/pices-nmdis-adhost/nmdis:	
Parsing files	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/TS-Beihai.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/TS-Dongfang.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/TS-Dingfang.xml	
Parsing /cygdrive/e/Isite2/data/pices-nndis-adhost/TS-Haikou.xml Parsing /cygdrive/e/Isite2/data/pices-nndis-adhost/TS-Laohutan.xml Parsing /cygdrive/e/Isite2/data/pices-nndis-adhost/TS-Lianyungang.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/TS-Qinhuangdao.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/TS-Tanggu.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/TS-Yantai.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-AirMusi.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-AirMusi.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-BalikPapan.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-BandaHarbour.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-BangkokBar.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Beihai.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Cebu.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-CuaCamApproaches.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Dalian.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Davao.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Djakarta.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-DregerHarbour.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Gaoxiong.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Guangzhou.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Guangzhou.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Haikou.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-HonNieu.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-HorsburghLighthouse.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Jolo.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-KarangDjamuang.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-KeppelHarbour.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-KualaBatuPahat.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Labuan.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Lianyungang.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Manila.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Miri.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-MuivungTau.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Pinang.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-PortDickson.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-PortKelang.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-PortMoresby.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Qingdao.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Qingdao.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Sandakan.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SeeadlerHarbour.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SungaiBaito.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SungaiKutei.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SungaiSarawak.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Surabaya.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-TanjungGelang.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Trengganu.xml	
Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-VilaHarbour.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Wusong.xml	
Parsing /cygdrive/e/Isite2/data/pices-nndis-adhost/Tide-Xiamen.xml Parsing /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Zhenhai.xml Indexing 17163 words	
Database files saved to disk.	
E:\Isite2\nmdis>	
	-

Figure 19.3. Building Index using lindex command

In Fig. A2.3, "The system cannot find the path specified. Command failed: Del \cygdrive\c\Isite\db\NMDIS.0* - No such file or directory" lines are actually a warning, not an error. It means that it's a new index – the previous one doesn't actually exist. It's an information message and can be ignored.

Note: You must run this lindex command every time new metadata records are added to your node. In the future if your zserver is running and you want to index new metadata records, first stop your zserver, then run the lindex command, and then restart your zserver. You can stop the zserver by opening the Windows Services tab, selecting the zserver-nmdis service and clicking on the Stop the service link. Restart the service by opening the Windows Services tab, selecting the zserver-nmdis service and clicking on the Start the service link (Fig. A2.16).

A2.2.2 Test Index (See Fig. A2.4 and A2.5)

Once it finishes indexing, you can test that the index was built correctly by confirming that the following full text search on your NMDIS database for the string *tidal* returns 42 records:

e:\Isite2\nmdis>Isearch2.exe -d /cygdrive/e/Isite2/db/pices-nmdis-adhost **NMDIS** *tidal*

► The following full text search should only return 42 records:

E:\Isite2\nmdis>Isearch2.exe -d /cygdrive/e/Isite2/db/pices-nmdis-adhost **NMDIS** *title/tidal*

Sometimes is is necessary to stop the zserver service (see Section A2.4) and erasing all files from the E⁽²⁾Isite2\db\pices-nmdis-adhost directory before initiating the index command.

You can automatically implement the search command by running the DOS batch file nmdis-isearch.bat in the E:\lsite2\nmdis\bat directory using a DOS Command Window.

A2.3 Configuring the Z39.50 server

- A2.3.1 sapi.ini and zserver.ini files
 - Once you have verified that the indexes were built correctly, you will need to modify files zserver.ini and sapi.ini located in folder E:\lsite2\nmdis with a text editor. Notepad will do the job, as will MS Word, providing you remember to save the file as plain text. Replace nmdis with the name given to your node.

A2.3.2 zserver.ini

The zserver.ini file contains configuration information for the server process. Open and edit the file zserver.ini. Confirm the following parameters are set as they are below:

ServerType=STANDALONE Port=49514 SAPI=/cygdrive/e/Isite2/nmdis/sapi.ini AccessLog=/cygdrive/e/Isite2/nmdis/zserver_access.log DBList= nmdis

Evisite2vandisvbat>cd Evisite2vandisvbat>cd Evisite2vandisvbat>cd Evisite2vandisvbat>cd Evisite2vandisvbat>cd Evisite2vandisvbat>cd Search u2.5.10+lim Edicase 2007092492 Search u2.5.10+lim Velase 2007092492 22 document(s) matched your query, 42 document(s) displayed. Score File 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-AirMusi.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-BandMarbour.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-BandMarbour.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-BandMarbour.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-BandMarbour.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-BandMarbour.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-BangkokBar.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Cebu.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Cebu.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Delain.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Dowon.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Dowon.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Dowon.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Dowon.xnl 1.000 /vcgdrue/velsite2/data/pices-nndis-adhost/ide-Marbour.xnl 1.000 /vcgdrue/v	
<pre>lsearch v2.5.10-Win, We lease 2007092402 Searching database /cygdrive/e/lsite2/db/pices-nmdis-adhost/Indis: Query String = tidal 42 document(s) matched your query, 42 document(s) displayed. Score File 100 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-AirMusi.xml 1101 preduction of main sea ports in Southeast Asia (Gir Musi) 1102 preduction of main sea ports in Southeast Asia (Gir Musi) 1103 preduction of main sea ports in Southeast Asia (Gir Musi) 1104 preduction of main sea ports in Southeast Asia (Sand Harbour) 1105 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-BandHarbour.xml 1106 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-BandHarbour.xml 1107 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-Bandkarbour) 1108 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-BandkokBar.xml 1108 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-Balkarbaux 1108 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-Belhai.xml 1104 prediction of main sea ports in Southeast Asia (SangkokBar.xml 1104 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-Cebu.xml 1105 / 106 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-Davao.xml 1106 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Iide-Davao.xml 1104 prediction of main sea ports in Southeast Asia (Cuc Gam Approaches.xml 1104 prediction of main sea ports in Southeast Asia (Cuc Gam Approaches.xml 1104 prediction of main sea ports in Southeast Asia (Cuc Gam Approaches.xml 1104 prediction of main sea ports in Southeast Asia (Suc Gam Approaches.xml 1104 prediction of main sea ports in Southeast Asia (Suc Gam Approaches.xml 1104 prediction of main sea ports in Southeast Asia (Suc Gam Approaches.xml 1104 prediction of main sea ports in Southeast Asia (Suc Gam) - Diakarta.xml 1104 prediction of main sea ports in Southeast Asia (Suca) - Diakarta.xml 1104 prediction of main sea ports in Southeast Asia (Suca) - Diakarta.xml 1104 prediction of main sea ports in Southeast Asia (Suca) - Diakarta.xml 1104 prediction of main sea ports in Southeast Asia (Suca) - Diakarta.xml 1104 /cygdrive/e/lsite2/data/</pre>	
<pre>[search v2.5.16-Win, Release 2007002402 Searching database /vgdrive/e/lsite2/db/pices-nndis-adhost/Indis: Wery String = tidal 42 document(s) matched your query, 42 document(s) displayed. Score File 1 100 /vggrive/e/lsite2/data/pices-nndis-adhost/Tide-AirMusi.xml 1101 prediction of main sea ports in Southeast Asia (Air Musi) 1102 prediction of main sea ports in Southeast Asia (Air Musi) 1103 prediction of main sea ports in Southeast Asia (Air Musi) 1104 prediction of main sea ports in Southeast Asia (Bank Musi) 1105 prediction of main sea ports in Southeast Asia (Bank Papan) 1106 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-Bankakar.xml 1107 prediction of main sea ports in Southeast Asia (Bankok Bar) 1108 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-Bankok Bar.xml 1108 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-Bankok Bar.xml 1108 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-CauaAhperaches.xml 1103 prediction of main sea ports in Southeast Asia (Campkok Bar) 1104 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-CauaAhpproaches.xml 1105 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-CauaAhpproaches.xml 1108 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-DataAhpproaches.xml 1108 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-DataAhpproaches.xml 1108 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1109 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1109 /vggdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Davao.xml 1104 /rgdrive/e/lsite2/data/pices-nndis-adhost/Tide-Bavouxan 11104 /rgdrive/e/</pre>	
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32. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SeeadlerHarbour.xml idal prediction of main sea ports in Southeast Asia (Seeadler Harbour) 22. 100	
33. ^ 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SungaiBaito.xml idal prediction of main sea ports in Southeast Asia (Sungai Baito)	
34. 100 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Tide-SungaiKutei.xml idal prediction of main sea ports in Southeast Asia (Sungai Kutei)	
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42. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Zhenhai.xml 'idal prediction of major coastal sea ports in China (Zhenhai)	
elect file #:	

Figure A2.4. Test that the index was built correctly by issuing a global search for the word "tidal".

🗈 Command Prompt - Isearch2.exe -d /cygdrive/e/Isite2/db/pices-nmdis-adhost/nmdis title/tidal	
:\Isite2\nmdis>Isearch2.exe -d /cygdrive/e/Isite2/db/pices-nmdis-adhost/nmdis title/tidal	
search v2.5.10-Win, Release 2007092402 earching database /cygdrive/e/Isite2/db/pices-nmdis-adhost/nmdis:	
uery String = title/tidal	
2 document(s) matched your query, 42 document(s) displayed.	
Score File 1. 100 /cuudriue/e/Isite2/data/nices-nmdis-adhost/Tide-AirMusi.xml	
1. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-AirMusi.xml idal prediction of main sea ports in Southeast Asia (Air Musi)	
2. 100 /cyggmrue/e/lsite/data/pices-nmdis-adhost/lide-Balikkapan.xml idal prediction of main sea ports in Southeast Asia (Balik Papan)	
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4. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-BangkokBar.xml idal prediction of main sea ports in Southeast Asia (Bangkok Bar)	
5. Î 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Ťide-Beihai.xml idal prediction of major coastal sea ports in China (Beihai)	
6. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Cebu.xml idal prediction of main sea ports in Southeast Asia (Cebu)	
1141 prefiction or main sea ports in southeast hista (tebu) 7. 100 /cygdrive/e/lsite2/data/pices-nmdis-adhost/Tide-CuaCamApproaches.xml	
7. ^ 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-CuaCamApproaches.xml idal prediction of main sea ports in Southeast Asia (Cua Cam Approaches) 8. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Dalian.xml	
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10. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Djakarta.xml	
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idal prediction of main sea ports in Southeast Asia (Dreger Harbour)	
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16. 100 /cygdrive/e/Isite2/data/pices-mdis-adhost/Tide-HorsburghLighthouse.xml idal prediction of main sea ports in Southeast Asia (Horsburgh Lighthouse)	
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18. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-KarangDjamuang.xml idal prediction of main sea ports in Southeast Asia (Karang Djamuang)	
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24. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Miri.xml idal prediction of main sea ports in Southeast Asia (Miri)	
25. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-MuivungTau.xml idal prediction of main sea ports in Southeast Asia (Muivung Tau)	
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27. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-PortDickson.xml idal prediction of main sea ports in Southeast Asia (Port Dickson)	
28. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-PortKelang.xml idal prediction of main sea ports in Southeast Asia (Port Kelang)	
29. 100 /cygdrive/e/Isite2/data/pices-mmdis-adhost/Tide-PortMoresby.xml idal prediction of main sea ports in Southeast Asia (Port Moresby)	
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32. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SeeadlerHarbour.xml dal prediction of main sea ports in Southeast Asia (Seeadler Harbour)	
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34. ¯ 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-SungaiKutei.xml .dal prediction of main sea ports in Southeast Asia (Sungai Kutei)	
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37. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-TanjungGelang.xml dal prediction of main sea ports in Southeast Asia (Tanjung Gelang)	
38. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Trengganu.xml	
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39. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Iide-VilaHarbour.xml dal prediction of main sea ports in Southeast Asia (Vila Harbour) 40. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Iide-Wusong.xml	
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41. 100 /cygdrive/e/Isite2/data/pices-nmdis-adhost/Tide-Xiamen.xml	
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idal prediction of major coastal sea ports in China (Zhenhai)	

Figure A2.5. Test that the index was built correctly by issuing a search for the word "tidal" in the title field.

Note: Port 49154 is the registered port for the Z39.50 communications protocol for the nmdis node, and we use 49154 in this example. However, your port will be different. This port must be open in order for you to be able to test that the zserver program is running and for the new node to communicate with the Clearinghouse node.

If you would like to add additional databases, you can create a comma delimited list in your zserver.ini. For example, if you were adding a database named **SOA** the DBList line would read for example:

DBList=nmdis, SOA

A2.3.3 sapi.ini

- Search API configuration file, sapi.ini, is located in folder e:\Isite2\nmdis. The sapi.ini file contains essential information for the server to connect to a specific search engine.
- Open and edit sapi.ini. You need to include an entry for each database you want to make available through zserver. Use the following for the NMDIS database, in the [Default] section of sapi.ini:

[NMDIS]

Type=ISEARCH Location=/cygdrive/e/Isite2/db/pices-nmdis-adhost FieldMaps=/cygdrive/c/Isite2/bib1_fgdc.map, /cygdrive/c/Isite2/gils_fgdc.map, /cygdrive/c/Isite2/geo_fgdc.map

Note: The FieldMaps line should all be on one line. Also, you may use relative paths instead of absolute paths in the FieldMaps parameter, assuming these files are located in the same directory as the zserver program. For example:

[NMDIS]

Type=ISEARCH Location=/cygdrive/e/Isite2/db/pices-nmdis-adhost FieldMaps=bib1_fgdc.map,gils_fgdc.map,geo_fgdc.map

Note: FieldMaps define the mapping between Use Attribute numbers and the corresponding element names in your metadata documents. FieldMaps are handled by the search script. In order for Z39.50 clients to search your Isearch database in a standardized manner, you must provide a mapping from Z39.50 database information to Isearch style information. This currently involves mapping Z39.50 Use attributes (combination Attribute Set Id and integer Use value representing a field name) to your field names as indexed by lindex. There are three mapping files that must be referenced here that allow your server to be seen as an FGDC server, a bibliographic server, and a GILS server. All three files are included in folder C:\Isite2.

Using a file editor, replace nmdis with the name of your node in the zserver.ini and sapi.ini files.

- A2.3.4 zserver.exe
 - Once you have configured zserver.ini and sapi.ini appropriately, you can issue the DOS command (see Fig. A2.6):

E:\Isite2\nmdis>zserver.exe

to start the server, then minimize the window and let the server run unattended.

Note: Do not close this DOS Command prompt window. Closing the DOS command prompt window will terminate the zserver process and the Z39.50 session. As you can see on the Command Prompt in Fig 3, the last line should return "Waiting to Accept client...".

If you want to start zserver in a directory other than the one where zserver.ini and sapi.ini are located, the command would be (for example):

E:\Isite2\nmdis>zserver.exe -i/cygdrive/e/Isite2/nmdis/zserver.ini

```
    Command Prompt - zserver.exe
    E:\lsite2\nmdis>zserver.exe
    CNIDR zserver, Version 2.3.2-Win, Release 2007092402, Copyright (c) 1995-2004 MC
    NC/CNIDR and A/WW Enterprises
    zserver.ini Path = /cygdrive/e/lsite2/nmdis/zserver.ini
    SAPI File = /cygdrive/e/lsite2/nmdis/zserver.ini
    Looking for map files in /cygdrive/e/lsite2/nmdis/
    Attempting to mount database nmdis
    Location is /cygdrive/e/lsite2/db/pices-nmdis-adhost
    Successfully mounted.
    Adding 67 fields from /cygdrive/c/Isite2/gils_fgdc.map to internal mapping table
    S...
    Adding 67 fields from /cygdrive/c/Isite2/gils_fgdc.map to internal mapping table
    S...
    Adding 67 fields from /cygdrive/c/Isite2/gils_fgdc.map to internal mapping table
    S...
    Adding 67 fields from /cygdrive/c/Isite2/geo_fgdc.map to internal mapping tables
    ...
    DebugLevel=9.
    Listening on port 49154...
    Listening to socket #4...
    Forking Server Started, Port 49154...
    Waiting to Accept client...
```

Figure A2.6. Start zserver

Leave the Command Prompt window open and open a second Command Prompt window. Arrange the two Command Prompt windows next to each other. As you test the zserver as instructed below, you should see how the zserver responds to your searches in the first Command Prompt window.

- A2.3.5 Test the zserver Installation (See Fig. A2.7)
 - ► Ping your localhost on port 49154.

Once you have zserver running (on port 49154 and with a database named " **NMDIS**"), you can test it by confirming that it is running by executing the following command in your second DOS Command Prompt window:

E:\Isite2\nmdis>zping.exe localhost 49154

It should return, "Z39.50 server at localhost on port 49154 is alive." As seen in Fig. A2.7a.

📾 Command Prompt 📃 🗆 🗙]
E:\Isite2\nmdis>zping localhost 49154 zping, Version 2.3.2-Win, Release 2007092402 Copyright (c> 1995-2004 MCNC/CNIDR and A/WWW Enterprises Z39.50 server at localhost on port 49154 is alive.	
E:\Isite2\nmdis>_	
·	1

Figure A2.7a. Test that the zserver is running correctly by running zping.

Confirm that a full text search for the string *tidal* returns 42 records (see Fig. A2.7b):

E:\Isite2\nmdis>zclient.exe localhost 49154 " NMDI " "tidal[1,1016]"

Finally a global spatial search should return 50 records (all the records) (see Fig. A2.7c):

E:\Isite2\nmdis>zclient.exe localhost 49154 " NMDIS" "90 -180 -90 180[1,2060]"

🕰 Command Prompt - zclient.exe localhost 49154 "nmdis" "tidal[1,1016]"	_ 🗆 ×
E:\Isite2\nmdis>zping localhost 49154 zping, Version 2.3.2-Win, Release 2007092402 Copyright (c) 1995-2004 MCNC/CNIDR and A/WWW Enterprises Z39.50 server at localhost on port 49154 is alive.	
E:\Isite2\nmdis>zclient.exe localhost 49154 "nmdis" "tidal[1,1016]" zclient, Version 2.3.2-Win, Release 2007092402 Copyright (c) 1995-2004 MCNC/CNIDR and A/WWW Enterprises zclient, Version 2.3.2-Win, Release 2007092402 Copyright (c) 1995-2004 MCNC/CNIDR and A/WWW Enterprises	
 42 total records matched your query 1) Tidal prediction of main sea ports in Southeast Asia (Air Musi) 2) Tidal prediction of main sea ports in Southeast Asia (Balik Papan) 3) Tidal prediction of main sea ports in Southeast Asia (Banda Harbour) 4) Tidal prediction of main sea ports in Southeast Asia (Banda Harbour) 4) Tidal prediction of main sea ports in Southeast Asia (Bangkok Bar) 5) Tidal prediction of main sea ports in Southeast Asia (Bangkok Bar) 6) Tidal prediction of main sea ports in Southeast Asia (Cabu) 7) Tidal prediction of main sea ports in Southeast Asia (Cabu) 7) Tidal prediction of main sea ports in Southeast Asia (Cabu) 8) Tidal prediction of main sea ports in Southeast Asia (Cau Cam Approaches) 8) Tidal prediction of main sea ports in Southeast Asia (Davao) 10) Tidal prediction of main sea ports in Southeast Asia (Davao) 11) Tidal prediction of main sea ports in Southeast Asia (Davao) 12) Tidal prediction of major coastal sea ports in China (Gaoxiong) 13) Tidal prediction of major coastal sea ports in China (Gaoxiong) 13) Tidal prediction of major coastal sea ports in China (Harkou) 14) Tidal prediction of major coastal sea ports in China (Harkou) 15) Tidal prediction of main sea ports in Southeast Asia (Hon Nieu) 16) Tidal prediction of main sea ports in Southeast Asia (Hon Nieu) 16) Tidal prediction of main sea ports in Southeast Asia (Hon Nieu) 16) Tidal prediction of main sea ports in Southeast Asia (Jolo) 18) Tidal prediction of main sea ports in Southeast Asia (Karang Djamuang) 19) Tidal prediction of main sea ports in Southeast Asia (Keppel Harbour) 20) Tidal prediction of main sea ports in Southeast Asia (Kuala Batu Pahat) 	e)
Enter # of record to view (return to quit): _	▼

Figure A2.7b. Test that the zserver is running correctly by running a full text search.

📾 Command Prompt - zclient.exe localhost 49154 "nmdis" "90 -180 -90 180[1,2060]" _ 🗆 × E:\Isite2\nmdis>zclient.exe localhost 49154 "nmdis" "90 -180 -90 180[1,2060]" zclient, Version 2.3.2-Win, Release 2007092402 Copyright (c) 1995-2004 MCNC/CNIDR and A/WWW Enterprises zclient, Version 2.3.2-Win, Release 2007092402 Copyright (c) 1995-2004 MCNC/CNIDR and A/WWW Enterprises 50 total records matched your query Ocean Station Temperature and Salinity Dataset (Beihai 1213) Ocean Station Temperature and Salinity Data Set (Dongfang 1212) Ocean Station Temperature and Salinity Data Set (Haikou 1210) Ocean Station Temperature and Salinity Data Set (Laohutan 1005) Ocean Station Temperature and Salinity Data Set (Laohutan 1005) Ocean Station Temperature and Salinity Data Set (Lianyungang 1017) Ocean Station Temperature and Salinity Data Set (Qinhuangdao 1008) Ocean Station Temperature and Salinity Data Set (Yantai 1011) Tidal prediction of main sea ports in Southeast Asia (Air Musi)) Tidal prediction of main sea ports in Southeast Asia (Balik Papan)) Tidal prediction of main sea ports in Southeast Asia (Banda Harbour)) Tidal prediction of main sea ports in Southeast Asia (Banda Harbour)) Tidal prediction of main sea ports in Southeast Asia (Bangkok Bar)) Tidal prediction of main sea ports in Southeast Asia (Bangkok Bar)) Tidal prediction of main sea ports in Southeast Asia (Bangkok Bar)) Tidal prediction of main sea ports in Southeast Asia (Cau Cam Approaches)) Tidal prediction of main sea ports in Southeast Asia (Cua Cam Approaches)) Tidal prediction of main sea ports in Southeast Asia (Davao)) Tidal prediction of main sea ports in Southeast Asia (Davao)) Tidal prediction of main sea ports in Southeast Asia (Davao)) Tidal prediction of main sea ports in Southeast Asia (Dialan)) Tidal prediction of main sea ports in Southeast Asia (Davao)) Tidal prediction of main sea ports in Southeast Asia (Davao)) Tidal prediction of main sea ports in Southeast Asia (Dialan)) Tidal prediction of main sea ports in Southeast Asia (Dialan)) Tidal prediction of main sea ports in Southeast Asia (Dialan)) Tidal prediction of main sea ports in Southeast Asia (Dialan)) Tidal prediction of main sea ports in Southeast Asia (Dialan)) Tidal prediction of main sea ports in Southeast Asia (Dialan) Ð 8) 10) 11) 12) 13) 14) 15) 16) (7) 18> Enter # of record to view (return to quit): _ •

Figure A2.7c. Test that the zserver is running correctly by performing a global search.

A2.4 Install zserver as a Windows Service

Note: It is very important that you back up your computer registry before attempting to work with the Windows Service. Contact your system administrator for assistance.

- A2.4.1 Installation of srvany.exe:
 - Using a DOS Command Prompt Shell install SRVANY.EXE as a Windows NT service with the following command (all in one line):

e:\Isite2\nmdis>INSTSRV zserver-nmdis c:\windows\system32\srvany.exe

This command line tells INSTSRV to install srvany.exe. and to create a service named "zserver-nmdis". You should receive the following message if the command was successful.

"The service was successfully added!"

- A2.4.2 Windows Services
 - Go to Start, Administrative Tools and use the "Services" control panel to configure the "Startup type" to "Automatic". (See Fig. A2.8)
 - ► Scroll down to the item "zserver-nmdis."
 - Right click on it and choose "Properties" to bring up the "zserver-nmdis Properties" dialog box.
 - ► Change "Startup type:" to "Automatic".
 - ► Choose the "Log On" tab.
 - ► Set "Log On As:" to "Local System account".
 - ▶ Press "OK" to save your changes.

A2.4.3 Specifying the application to start and its parameters (See Fig. A2.9-A2.14)

► Run the Registry Editor from the Command Prompt Shell:

C:\>REGEDIT.EXE

Services			_ D ×
File Action View He	þ		
	· · · · · · · · · · · · · · · · · · ·		
	zserver-nmdis Properties (Local Computer)		
Services (Local)	General Log On Recovery Dependencies		
	Service name: zserver-nmdis	Name △ Description Sta When Themes Provides u	atus Startup Type
	Display <u>n</u> ame: zserver-nmdis	🖏 Uninterruptible Pow Manages a	Manual
	Description: Zserver for pices-nmdis-adhost node	🍓 Virtual Disk Service Provides s 🍓 Volume Shadow Copy Manages a	Manual Manual
		WebClient Enables Wi Windows Audio Manages a Sta	Disabled arted Automatic
	Path to executable:	(A)	arted Automatic
	c:\windows\system32\srvany.exe	Windows Image Ac Provides im	Disabled
		Windows Installer Adds, modi	Manual
	Startup type: Automatic		arted Automatic
		🖏 Windows Managem Monitors all	Manual
		100	arted Automatic
	Service status: Started	🦓 Windows User Mod 🛛 Enables Wi	Manual
	Start Stop Pause Resume	🆏 WinHTTP Web Prox Implement	Manual
		🏶 Wireless Configurat Enables au Sta	arted Automatic
	You can specify the start parameters that apply when you start the service	🆏 WMI Performance 🛛 Provides p	Manual
	from here.	🍓 Workstation Creates an Sta	arted Automatic
	Start parameters:	🏶 World Wide Web P Provides W Sta	arted Automatic
	orar parameters.	🎭 zserver-nmdis 🛛 Zserver for Sta	arted Automatic
		9 1 9	arted Automatic
		🏶 zserver-tinro Zserver for Sta	arted Automatic 🚽
	OK Cancel Apply	•	
-	Extended / Standard /		

Figure A2.8. Windows Services showing the zserver-nmdis service.

- Click on the plus sign (⊞) next to "My Computer" (♣). The plus sign will turn into a minus sign (⊟) and a tree of folders (➡) will appear.
- Click on the plus sign next to the folder labeled "HKEY_LOCAL_MACHINE", and another tree structure will expand beneath it.
- ► Following the above pattern, click on the plus signs (±) next to the folders (□) "SYSTEM", "CurrentControlSet", "Services", and "zserver-mynode", in that order.
- When you have navigated that far correctly you should see the following in your status bar:

My Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\zserver-nmdis

Figure A2.2a. Registry Editor status bar

► Create a new key named "Parameters" by right clicking on the "zserver-nmdis" and choosing "New → Key" as shown below in Fig. A2.9:

📥 🔄 Z 39.50	Server	
- T- <u>-</u> m	Collapse	
	New 🕨	Кеу
	Find	String Value
	Delete Rename	Binary Value DWORD Value
	Export Permissions	Multi-String Value Expandable String Value
	Copy Key Name	

Figure A2.3. Registry Editor: zserver-nmdis: Add new key

► Under the "Parameters" key, create a new string value named "Application" by right clicking on the "Parameters" folder and choosing "New → String Value" as shown below in Fig. A2.10:

Name	Туре	Data
(Default)	REG_SZ	(value not set)
Application	REG_SZ	

Figure A2.4. Registry Editor: zserver-nmdis: Name the new key

Double click on the "Application" string value you have just created and in the "Edit String" window that pops up specify there the full path to the zserver.exe executable (including the extension - c:\Isite2\zserver.exe i/cygdrive/e/Isite2/nmdis/zserver.ini), as shown in Fig. A2.11:

Edit String
Value <u>n</u> ame:
Application
<u>V</u> alue data:
c:\lsite2\zserver.exe -i/cygdrive/e/lsite2/nmdis/zserver.ini
OK Cancel

Figure A2.5. Registry Editor: zserver-nmdis: Add Value data

 Following the pattern of steps above, create a new string value named under the "Parameters" key named "Description" and specify there the Description for the zserver (see Fig. A2.12):

😭 Registry Editor				IX	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp					
🗄 🕀 🖬 🖌	Name	Туре	Data		
🕀 🔁 WmiApRpl	(Default)	REG_SZ	(value not set)		
⊞ · 🛄 WmiApSrv	Description	REG_SZ	Zserver for pices-nmdis-adhost node		
WS2IF5L	a)DisplayName	REG_SZ	zserver-nmdis		
terre	ErrorControl	REG_DWORD	0×00000001(1)		
⊞ ·· 🔁 WZCSVC ⊞ ·· 💼 xmlprov	a) ImagePath	REG_EXPAND_SZ	c:\windows\system32\srvany.exe		
	ObjectName	REG_SZ	LocalSystem		
	- 🔡 Start	REG_DWORD	0x00000002 (2)		
Parameters	👸 Туре	REG_DWORD	0x00000010 (16)		
Security	Edit String		? ×		
⊞ 📄 zserver-npem					
🕀 💼 zserver-tinro	Value <u>n</u> ame	(
	Description	I			
	Value data:				
Select					
E Setup	Zserver for	pices-nmdis-adhost node			
			OK Cancel		
	•				
My Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\zserver-nmdis					

Figure A2.6. Registry Editor: zserver-nmdisr: Add new key and value data

NOTE: You can check if everything is working okay by going into "zservernmdis Properties" using the steps outlined above. Go to the "Log On" tab and check the box next to "Allow Service to Interact with Desktop". Set the "DebugLevel" in zserver.ini to 5 so you will get some feedback. This should be the default setting in the zserver.ini file.

Local System account	
Allow service to interact with deskto	р

Figure A2.7. Windows Services: zserver-nmdis Properties

Then reboot and log in. You will get a command prompt box with the zserver debug text displayed.

If everything is okay, then you should see the Command Prompt Shell pop up with the screen in Fig. A2.14.

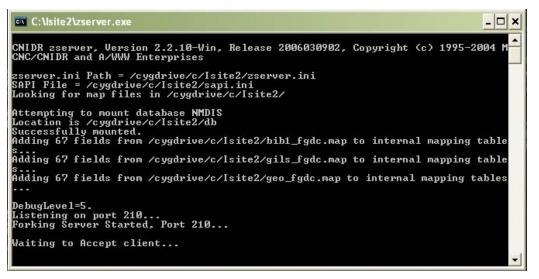


Figure A2.8. Message received after reboot

Note: After the reboot **DO NOT** leave the "Allow Service to Interact with Desktop" checked, because a Command Prompt Shell will appear for every user and if a user exits the shell, the zserver process will terminate.

Go to Windows Services > "zserver-nmdis" Properties" > "Log On" tab and uncheck the box next to "Allow Service to Interact with Desktop". Leave the Windows Services open. You'll have to get back to it.

When the zserver process is stable and registered, you should configure the zserver service to be started whenever the system reboots to ensure minimum down-time and administrator interaction. After you register your node with the Clearinghouse, go to Windows Services. In the Services, for zserver-nmdis, stop the service and then start it once more (see section A2.4). This will ensure that next time you reboot your zserver will start up automatically.

That's it! You're done with the Isite installation. Next, on to register your newly created node.

A2.5 Starting and Stopping the Zserver Process

Normally, a zerver process is started for each individual node running on the AdHost server as listed in Fig. A2.15, which can be viewed by clicking on "Start", then "Administrative Tools", then "Services". Scroll to the bottom as services are listed alphabetically. Note that in this example, there is a separate zserver process running for three separate nodes and that the services are logged on as belonging to the local system.

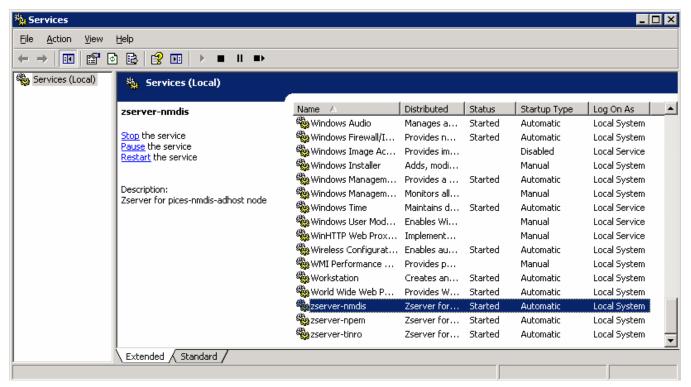


Figure A2.15 All three zserver processes are active and running.

A zserver process can be stopped by clicking on it, then clicking on the "stop the service" link to the left of the window (See Fig. A2.15). It can be started again by clicking on the "start the service" link (see Fig. A2.16). The three zserver processes can be seen running in the Windows Task Manager windows (Fig.A2.17). Note that all three are running as SYSTEM service meaning they will continue to run after you log off of the AdHost server.

ile <u>A</u> ction <u>V</u> iew							
- → 🔃 😭							
_				,	1		
	zserver-nmdis	Name 🛆	Description	Status	Startup Type	Log On As	
		🆓 Windows Audio	Manages a	Started	Automatic	Local System	
	<u>Start</u> the service	🎇 Windows Firewall/I	Provides n	Started	Automatic	Local System	
		🆓 Windows Image Ac	Provides im		Disabled	Local Service	
	Description:	🆏 Windows Installer	Adds, modi		Manual	Local System	
	Zserver for pices-nmdis-adhost node	🆓 Windows Managem	Provides a	Started	Automatic	Local System	
		🍓 Windows Managem	Monitors all		Manual	Local System	
		🆏 Windows Time	Maintains d	Started	Automatic	Local Service	
		🦓 Windows User Mod	Enables Wi		Manual	Local Service	
		🦓 WinHTTP Web Prox	Implement		Manual	Local Service	
		🦓 Wireless Configurat		Started	Automatic	Local System	
		🦓 WMI Performance	Provides p		Manual	Local System	
		workstation	Creates an	Started	Automatic	Local System	
		🤹 World Wide Web P	Provides W	Started	Automatic	Local System	
		server-nmdis	Zserver for		Automatic	Local System	
		server-npem	Zserver for	Started	Automatic	Local System	
		🖏 zserver-tinro	Zserver for	Started	Automatic	Local System	

Figure A2.16. Only two zservers are active and running and one (nmdis) is stopped.

Eile	Vindows Task Mana Options View Hel				×
Ap	plications Processes	Performance Netw	orking	Users	
	Image Name	User Name	CPU	Mem Usage 🔺	
	svchost.exe	NETWORK SERVICE	00	3,368 K	
	svchost.exe	NETWORK SERVICE	00	4,728 K	
	svchost.exe	LOCAL SERVICE	00	5,292 K	
	svchost.exe	SYSTEM	00	29,600 K	
	svchost.exe	SYSTEM	00	2,172 K	
	svchost.exe	LOCAL SERVICE	00	1,316 K	
	svchost.exe	SYSTEM	00	8,284 K	
	svchost.exe	SYSTEM	00	5,132 K	
	svchost.exe	SYSTEN104×445	00	3,928 K	
	System	SYSTEM	00	216 K	
	System Idle Process	SYSTEM	99	16 K	
	taskmgr.exe	bmegrey	00	4,388 K	
	tomcat5.exe	SYSTEM	00	125,352 K	
	winlogon.exe	SYSTEM	00	10,184 K	
	winlogon.exe	SYSTEM	00	5,692 K	
	wmiprvse.exe	SYSTEM	00	5,064 K	
	zserver.exe	SYSTEM	00	4,204 K	
	zserver.exe	SYSTEM	00	4,880 K	
	zserver.exe	SYSTEM	00	4,836 K 🔍 💌	
	Show processes fro	om all users		End Process	
Proce	esses: 44 CPU Us	age: 0% Com	nmit Cha	rge: 938M / 3947M	

Figure A2.17. Windows Task manager showing the zserver process running separately for each of three active nodes.

A2.6 Local and System Level Zserver Processes

A zserver service can be run locally for testing purposes by first stopping the SYSTEM zserver process in the Services Window (See Figs A2.15 and A2.16). Navigate to the E:\lsite2\nmdis\bat directory and run the batch job nmdis-zserver.bat in a DOS Command window which should look like Fig. A2.18. At this point, the Windows Task manager shows that there are two zserver process running at the SYSTEM level and one running locally under the username of bmegrey (see Fig. A2.19).

```
    Command Prompt - nmdis-zserver
    E:\lsite2\nmdis\bat>chdir /d c:\lsite2\
    E:\lsite2\zserver.exe -i/cygdrive/e/lsite2/nmdis/zserver.ini
    C:\lsite2\zserver.exe -i/cygdrive/e/lsite2/nmdis/zserver.ini
    CNIDR zserver, Uersion 2.3.2-Win, Release 2007092402, Copyright (c) 1995-2004 MCNC/CNIDR a
    nd A/WW Enterprises
    zserver.ini Path = /cygdrive/e/lsite2/nmdis/zserver.ini
    SAPI File = /cygdrive/e/lsite2/nmdis/zserver.ini
    SAPI File = /cygdrive/e/lsite2/nmdis/sapi.ini
    Looking for map files in /cygdrive/e/lsite2/nmdis/
    Attempting to mount database nmdis
    Location is /cygdrive/e/lsite2/db/pices-nmdis-adhost
    Successfully mounted.
    Adding 67 fields from /cygdrive/c/lsite2/gls_fgdc.map to internal mapping tables...
    Adding 67 fields from /cygdrive/c/lsite2/gls_fgdc.map to internal mapping tables...
    PebugLevel=9.
    Listening on port 49154...
    Listening to socket #4...
    Forking Server Started, Port 49154...
    Waiting to Accept client...
```

Figure A2.18. Example of interactively starting a local zserver process.

oplications Processe	s Performance Netw	orking	Users
Image Name	User Name	CPU	Mem Usage 📃 🔺
svchost.exe	NETWORK SERVICE	00	3,372 K
svchost.exe	NETWORK SERVICE	00	4,720 K
svchost.exe	LOCAL SERVICE	00	5,208 K
svchost.exe	SYSTEM	00	25,200 K
svchost.exe	SYSTEM	00	2,172 K
svchost.exe	LOCAL SERVICE	00	1,316 K
svchost.exe	SYSTEM	00	8,284 K
svchost.exe	SYSTEM	00	5,096 K
svchost.exe	SYSTEM 02×443	00	3,928 K
System	SYSTEM	00	212 K
System Idle Process	; SYSTEM	99	16 K
taskmgr.exe	bmegrey	00	2,176 K
tomcat5.exe	SYSTEM	00	92,624 K
winlogon.exe	SYSTEM	00	10,168 K
winlogon.exe	SYSTEM	00	5,560 K
wmiprvse.exe	SYSTEM	00	5,064 K
zserver.exe	SYSTEM	00	4,200 K
zserver.exe	SYSTEM	00	4,876 K
zserver.exe	bmegrey	00	4,560 K 📃 💌
Show processes f	rom all users		End Process

Figure A2.19. Windows Task Manager showing one local zserver process and two System Level zserver processes.

Once the DOS Command windows is closed the local zserver process will terminate (see Figure A2.20)

plications Processes	Performance Netw	orking	Users	
Image Name	User Name	CPU	Mem Usage	
svchost.exe	SYSTEM	00	2,684 K	
svchost.exe	NETWORK SERVICE	00	3,384 K	
svchost.exe	NETWORK SERVICE	00	4,732 K	
svchost.exe	LOCAL SERVICE	00	5,208 K	
svchost.exe	SYSTEM	00	25,224 K	
svchost.exe	SYSTEM	00	2,172 K	
svchost.exe	LOCAL SERVICE	00	1,316 K	
svchost.exe	SYSTEM	00	8,284 K	
svchost.exe	SYSTE№] 01×444	00	5,096 K	
svchost.exe	SYSTEM	00	3,928 K	
System	SYSTEM	00	212 K	
System Idle Process	SYSTEM	99	16 K	
taskmgr.exe	bmegrey	00	4,384 K	
tomcat5.exe	SYSTEM	00	92,624 K	
winlogon.exe	SYSTEM	00	10,168 K	
winlogon.exe	SYSTEM	00	5,560 K	
wmiprvse.exe	SYSTEM	00	5,064 K	
zserver.exe	SYSTEM	00	4,200 K	
zserver.exe	SYSTEM	00	4,876 K	•
Show processes fro	om all users		End Process	;

Figure A2.20. Windows Task manager showing only two System Level zserver processes running after the local process was terminate by closing the DOS Command window.

The SYSTEM zserver process for the nmdis node can be restarted from the Services window by clicking on the zserver-nmdis process and clicking on the "start the service" link (See Fig. A2.16). Always check that the zserver process successfully started by running the nmdis-zping batch file before logging off the AdHost server.

A2.7 Register your node

- Until you register your server with the FGDC, it will not be included in the search forms. To register, fill in the server-level metadata at <u>http://registry.fgdc.gov/</u>.
- Refer to PICES Tech Memo for instructions to register your node (see section 8.6) or see the FGDC tutorial at <u>http://registry.fgdc.gov/TutorialAdd.asp</u>.