

Configuring the Natural Web Interface

This section provides information on how to configure the Natural Web Interface. If you are not familiar with a specific product, refer to the corresponding product documentation for more information.

This section covers the following topics:

- Supported HTTP Servers
- Configuring RPC and RPC Server
- Configuring the Web Interface
- Configuring an HTTP Server
- Communication with Natural Security

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Supported HTTP Servers

Operating System	HTTP Server
Windows (Intel)	<ul style="list-style-type: none"> ● Microsoft Internet Information Server Version 5.0/6.0 ● Apache Version 2.0.x ● Apache Version 2.2.x
OpenVMS (*)	<ul style="list-style-type: none"> ● Apache Version 2.0.x ● Apache Version 2.2.x

Configuring RPC and RPC Server

In the following configuration description, ETB255 is the name of a Broker and NATWEB1 the name of an RPC Server used for the examples.

For the installation and configuration, refer to the Natural RPC, *Entire Net-Work*, and *EntireX Communicator* documentation.

The following topics are documented below:

- General RPC Configuration Setting for All Platforms using SYSWEB3
- Current Version of Natural for Mainframes, UNIX, OpenVMS or Windows
- EntireX Communicator / EntireX Developer's Kit

General RPC Configuration Setting for All Platforms using SYSWEB3

ACIVERS Settings

You are recommended to set the profile parameter ACIVERS to a value of 6 or above. Refer to Set the ACI Version in the Natural RPC documentation for further details.

MAXBUFF and MAX-MESSAGE-LENGTH Settings

You are recommended to set the profile parameter MAXBUFF on the Natural RPC server to a value of 1024 or above. This also requires setting the value of MAX-MESSAGE-LENGTH to 1048576 or above on the EntireX Broker that is included in EntireX Communicator.

Current Version of Natural for Mainframes, UNIX, OpenVMS or Windows

On Windows, OpenVMS and UNIX Systems using SYSWEB

To change your NATPARM file so that two additional steplibs can be accessed in the RPC environment:

- In the *Natural Execution Configuration* parameter group, add the two steplibs SYSWEB and SYSEXT to the steplib parameter subsection.

On Windows, OpenVMS and UNIX Systems using SYSWEB3

To change your NATPARM file so that two additional steplibs can be accessed in the RPC environment:

- In the *Natural Execution Configuration* parameter group, add the two steplibs SYSWEB3 and SYSEXT to the steplib parameter subsection.

In a Mainframe Environment using SYSWEB

If Natural Security is installed:

- Define the steplibs SYSWEB and SYSEXT for your library.

If Natural Security is **not** installed:

- Modify the Natural program WEB-STLB in library SYSWEB by entering the DBID and file number of the associated FNAT system file of the libraries SYSWEB and SYSEXT. If required, you can add additional steplibs.
- STOW the program.
- The STACK parameter for your RPC server should have the following value: `STACK=(LOGON SYSWEB;WEB-STLB)`

EntireX Communicator / EntireX Developer's Kit

On Windows Systems

Setting the environment variables is not required.

On UNIX (All Platforms) and OpenVMS

All EntireX-relevant environment variables must be passed by the HTTP server.

Configuring the Web Interface

The following topics are covered below:

- Natural Web Interface
- Natural Web Server Extensions for RPC
- Natural Web Server Extensions for DCOM
- Natural Web Server Extensions for MOD

Natural Web Interface

For mainframe, Windows, OpenVMS and UNIX environments no configuration is required.

Natural Web Server Extensions for RPC

Adjust the configuration file using an external editor:

```
RPC_ETB_ID_NAME=ETB255  
RPC_SERVER_NAME=NATWEB1
```

With a Natural RPC Server Running in a non-ASCII Environment

The parameter `NWW_OUT_CSS_TRANSLATE` must be set in the Configuration File. Its value depends on the code page used.

Natural Web Server Extensions for DCOM

Local DCOM (All Platforms)

No adjustments are required for local communication.

External DCOM (All Platforms)

For external communication, see the NaturalX documentation for registry changes, or adjust the configuration file using an external editor:

```
DCOM_SERVER_NAME=NATWEBEXT
```

On Windows (Internet Information Server)

If you use the Internet Information Server, the username for anonymous logon, e.g. NATWEB, is used. NATWEB must belong to the group USER, or the GUEST account must be enabled.

On Windows (Apache)

If you use the Apache Server, the default settings for User/Group specified at httpd.conf can be used:

User/Group: The name (or # number) of the user/group to run httpd as User nobody Group #-1

Natural Web Server Extensions for MOD

Note:

This section applies to SYSWEB3 only.

- Using an RPC Server
- Using a DCOM Server
- Using a SPoD Server

Using an RPC Server

1. Install the Natural Web Server Extensions
2. Open the ..\conf\httpd.conf file of the HTTP Server and add the the following new lines for the RPC Interface:

For Apache 2.0.x

```
...
LoadModule nww3_module modules/nww3mod2.dll
<Location /nww3/mod>
  AllowOverride None
  NWWinifile "<yourRoot>/nww3/nww3mod.ini"
  SetHandler nww3
</Location>
...
```

For Apache 2.2.x

```
...
LoadModule nww3_module modules/nww3mod22.dll
<Location /nww3/mod>
  AllowOverride None
  NWWinifile "<yourRoot>/nww3/nww3mod.ini"
  SetHandler nww3
</Location>
...
```

3. Specify additional files at the /nww3 directory, if not only one service or broker are to be used.
4. If a static read of the .ini file is wanted (this influences the performance), add the line shown in *italics* to your obj.conf.

Using a DCOM Server

1. Install the Natural Web Server Extensions.
2. Open the ..\conf\httpd.conf file of the HTTP Server and add the the following new lines for the DCOM Interface:

For Apache 2.0.x

```

...
LoadModule nww3d_module modules/nww3dmod2.dll
<Location /nww3d/mod>
  AllowOverride None
  NWWinifile "<yourRoot>/nww3d/nww3dmod.ini"
  SetHandler nww3d
</Location>
...

```

For Apache 2.2.x

```

...
LoadModule nww3d_module modules/nww3dmod22.dll
<Location /nww3d/mod>
  AllowOverride None
  NWWinifile "<yourRoot>/nww3d/nww3dmod.ini"
  SetHandler nww3d
</Location>
...

```

3. Specify additional files at the /nww3d directory, if not only one service or broker are to be used.
4. If a static read of the .ini file is wanted (this influences the performance), add the line shown in *italics* to your obj.conf.

Using a SPoD Server

1. Install the Natural Web Server Extensions.
2. Open the ..\conf\httpd.conf file of the HTTP Server and add the the following new lines for the SPoD (PAL) Interface:

For Apache 2.0.x

```

...
LoadModule nww3p_module modules/nww3pmod2.dll
<Location /nww3p/mod>
  AllowOverride None
  NWWinifile "<yourRoot>/nww3p/nww3pmod.ini"
  SetHandler nww3p
</Location>
...

```

For Apache 2.2.x

```

...
LoadModule nww3p_module modules/nww3pmod22.dll
<Location /nww3p/mod>
  AllowOverride None
  NWWinifile "<yourRoot>/nww3p/nww3pmod.ini"
  SetHandler nww3p
</Location>
...

```

3. Specify additional files at the /nww3p directory, if not only one service or broker are to be used.

4. If a static read of the .ini file is wanted (this influences the performance), add the line shown in *italics* to your obj.conf.

Configuring an HTTP Server

Windows (Internet Information Server 5.0 and 6.0)

If you use the Internet Information Server, the username for anonymous logon, e.g. |USR_NATWEB, is used. |USR_NATWEB must belong to the group USER, or the GUEST account must be enabled.

Communication with Natural Security

The new version of the EntireX Developer's Kit supports the usage of two passwords and user IDs.

The first user ID is used to get access through EntireX Security and the second for Natural Security.

The HTTP Server Security is involved as a third security system.

HTTP Server Security

Restrict the access of the NWW interface at your HTTP Server. For details, refer to your HTTP server documentation.

EntireX Security

In the configuration file the NWW_USER_ID and NWW_PASSWORD have to be specified.

Natural Security

A second User ID/Password (RPC_USER_ID, RPC_PASSWORD) has to be set.

If the parameter USE_REMOTE_USER is activated, the RPC_USER_ID will be set/overwritten. The RPC_PASSWORD remains unchanged.

It is necessary to set up Natural Security with "AUTO=ON" to pass security without password. If no RPC_USER_ID/RPC_PASSWORD pair is set, the NWW_USER_ID/NWW_PASSWORD will be used to ensure compatibility with the existing implementation.