



NPR Labs XPoNential PAD Service

Getting Started Guide

revised 10 December 2009, Rich Rarey, NPR Labs

Introduction

The NPR Labs XPN PAD Service (referred to hereafter as the application, tool, program, or utility) is a tool to provide PAD/PSD information for WXPN's XPoNential Music channel. It is designed to use UDP and to be used with Importers running Version 2.0.1 to 3.0.5 of the iBiquity Importer software. It can also be used on a main program service with Exporters running version 2.3.3 of iBiquity's Exporter software.

Please note that at this writing, the highest iBiquity Importer software version tested with this application is 3.0.5.

Prerequisites

To use the utility, you must have the following:

- The Java Runtime Environment Version 1.5 or higher installed
- Internet access with the ability to connect to xpn.org on port 80
- Network access to the Importer for SPS or Exciter for MPS
- The [optional] configuration file, `defaults.ini`, should be in the same directory as `PAD_XPN.jar`

Operation

The program can be run on the Importer itself or on a separate computer with network access to the Importer. To run it, double click on the `PAD_XPN.jar` file. You will be presented with the following

The screenshot shows the 'XPoNential PAD Service v1.10' window. It has a title bar with standard window controls. The main area contains the following fields and controls:
- 'Importer IP:' text box with '127.0.0.1' entered.
- 'PAD Port:' text box with '10010' entered.
- 'Title/Slogan:' text box with 'Xponential Radio on' entered.
- 'Title/Slogan 2:' text box with 'Washington, DC' entered.
- 'Station Name:' text box with 'XNPR' entered.
- Two radio buttons: 'MPS' (unselected) and 'SPS' (selected).
- 'Number of minutes between IDs:' text box with '5' entered.
- Three empty text boxes for 'Artist:', 'Song:', and 'Album:'.
- A large 'Connect' button at the bottom.
- Copyright notice: '© 2007-2009 National Public Radio' at the bottom left.

screen (shown at left):

In the Importer IP field, enter the IP address of the Importer (or Exporter if running XPN on your HD-1 channel.) If running the program on the Importer itself, use the IP 127.0.0.1.

In PAD Port, enter the UDP port used by your MPS or SPS PAD. For MPS, this number will be 10000. For SPS, check the setting inside the iBiquity SPS Client's settings; 10010 is typical for an HD-2 channel.

The three boxes below the IP port are used for PAD Station IDs. Here, you can enter three lines of names/slogans that will appear on radios at a certain interval. The Station Name field is displayed in the PAD Artist field, the Title/Slogan field in the PAD Title field, and the Title/Slogan 2 field in the PAD Album field.

In the Number of minutes between IDs field, enter how often the ID should be displayed (integers only). IDs will be displayed for 15 seconds. Enter -1 to disable IDs or 0 to disable information from XPN and only display the ID.

In the two radio buttons to the right of number of minutes, select if you are displaying this information on the main program service (MPS) or a supplementary program service (SPS).

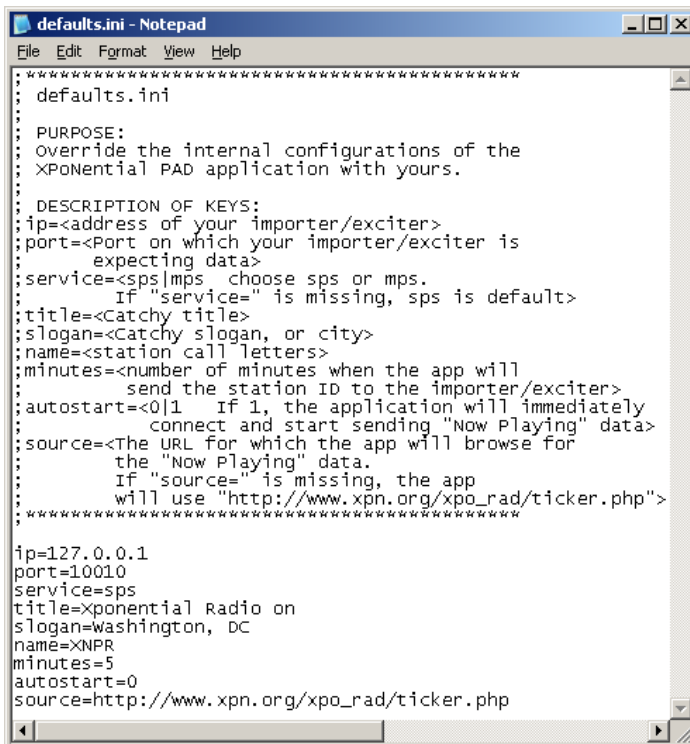
Once these settings are defined, click the Connect button. Assuming all the settings are correct and you have Internet access to xpn.org, PAD information should populate the Artist/Song/Album boxes, and PAD should show up on radios in 8 seconds for an MPS channel or about 30 seconds for a SPS channel. **Do not close the program; doing so will stop the XPN PAD.**

SETTING DEFAULTS

To ease in restarting the software, a `defaults.ini` file is included. In this file, all the fields that exist in the program can be pre-configured here by referring to the appropriate "key". The example below shows `defaults.ini` opened in Notepad, and the comments, (lines starting with a semi-semicolon) and the actual configuration.

*Note there are **no spaces** between the key name, the equals sign, and the value*
*e.g. **CORRECT:** `autostart=0` **WRONG:** `autostart = 0`*

The only setting in the ini that doesn't exist in the program's GUI is `autostart`. Setting `autostart=1` will automatically "click" the connect button when the program starts. This way, you can define all of the



```
defaults.ini
:
: *****
: PURPOSE:
: override the internal configurations of the
: XPNponential PAD application with yours.
:
: DESCRIPTION OF KEYS:
: ip=<address of your importer/exciter>
: port=<Port on which your importer/exciter is
:   expecting data>
: service=<sps|mps choose sps or mps.
:   If "service=" is missing, sps is default>
: title=<Catchy title>
: slogan=<Catchy slogan, or city>
: name=<station call letters>
: minutes=<number of minutes when the app will
:   send the station ID to the importer/exciter>
: autostart=<0|1 If 1, the application will immediately
:   connect and start sending "Now Playing" data>
: source=<The URL for which the app will browse for
:   the "Now Playing" data.
:   If "source=" is missing, the app
:   will use "http://www.xpn.org/xpo_rad/ticker.php">
: *****
ip=127.0.0.1
port=10010
service=sps
title=xponential Radio on
slogan=Washington, DC
name=XNPR
minutes=5
autostart=0
source=http://www.xpn.org/xpo_rad/ticker.php
```

fields used for your station, set `autostart` to 1, and add the XPN JAR file to your computer's startup folder in the start menu. Then, after any system restart, PAD will automatically restart for XPN.

If you have any questions about this tool, please contact Rich Rarey, NPR Labs at rrarey@npr.org or 202.513.2577. NPR Labs does not guarantee a response to questions.