

APBnet Server Deployment

February 9, 2017

APBnet software and documents related to installing version 170209 can be found at www.APBnet.net/2017Download

1. As an IT person, to deploy APBnet on a server or shared network drive, get your own User Number and Install Password by calling us at 650-726-7814. We will also give you your Agency Number (see Note 6) and the latest software installation documents and answer your questions .
2. Install APBnet on your desktop computer as described in APBnet Installation Instructions document at the above link. Complete/correct as needed the top half of the: MainMenu -> MyAgencySettings screen.
3. Create a shared folder on the server or network drive, and give users read/write/change access. Include "SharedFolderForApbnet" as part of the name of the shared folder.
4. Copy the latest 'Versionyymmdd' folder of your desktop installation to the server's shared folder. The folder contains the APBnet files and is located at your "MyDocuments\CriticalReachAPBnetFiles\".
5. Described below are the two basic types of user access to APBnet when using a server deployment:
 - A. APBnet can be accessed by the user via a user-clickable link on an Agency Intranet home page that points to the server or network drive .bat file or script you create as described in note 6 below.
 - B. APBnet can also be accessed by the user via a desktop shortcut that points to the .bat file or script you create as described in note 6 below. The user shortcuts do not change for new versions of APBnet; just change the .bat file to point to the new updated APBnet.Exe in the server's shared folder.

APBnet Shortcuts on User Desktops



Intranet home page link pointing to .bat file or script

Shared Folder on Server or Network Drive

.bat/script file that points to current apbnet.exe

Version yymmdd folder
apbnet.exe

- a. The user desktop shortcuts never need changing once they point to your .bat file/script.
- b. The .bat file is placed in the Server's Shared Folder (see note 13 about creating a bat file).
- c. Only the .bat file needs to be changed to point users to a new version of apbnet.exe.



- d. No files need to be moved between the Versionyymmdd folders when switching to a new version.
- e. Each IT person needs an APBnet User Number for research and test. After checking the new version, IT copies the new Versionyymmdd folder to the Server's Shared Folder and changes the .bat file or script to point to the new apbnet.exe in the new Versionyymmdd folder.
24x7 APBnet users should be told to restart APBnet in order to start using the new version.
- f. Use APBnet Private Group #2 to send a message/bulletin to all APBnet users in your Agency.
- g. Your IT email address goes in the Agency Data Screen (MainMenu->MyAgencySettings).
The bottom half of that screen shows operational data for all your Agency's APBnet user numbers.

6 .bat file Command Line Parameters (see table on page 4)

The server or network drive shared folder installation can provide APBnet to two types of users:

- **Full Function** users that Create and Send bulletins, for which an APBnet User Number is needed
- **Search Only** users that do only Bulletin Search without needing an APBnet User Number

The two different user types run different batch files or scripts to provide the different functionality as described in this note and in the table on page 4. You can deploy both types of users from one shared folder.

For **Full Function** users that Create and Send bulletins, as well as Search for Bulletins, the batch file is:

Start Versionyymmdd/apbnet.exe

Remember that Full Function users need an APBnet User Number.

For **Bulletin Search Only** users, multiple command line parameters are added to the .bat file.

The command line parameters are added **on the same line** as, and after, 'apbnet.exe'

(e.g., **start path/apbnet.exe "....." "....." "....." "....."**).

The **one-line** .bat file located in the server's shared folder will look like (use your own specific parameters):

Start Versionyymmdd/apbnet.exe "BulletinSearchOnly" "NoUserNumberPrompt" "State=CA"

"County=San Mateo" "AgencyNumber=2028" (remember, all on one line)

The bat file parameters for Bulletin Search Only users are shown in row 1 in the table on page 4.

The batch file command line parameters for Bulletin Search Only are defined below.

"BulletinSearchOnly" - provides only Bulletin Search function to such users

"NoUserNumberPrompt" - skips the APBnet User Number prompt for Bulletin Search Only users

"State=...." and **"County=..."** - used to define the State and County the Agency is located in.

For State=..., put in the two-character state abbreviation.

For County=..., put in the name of the county.

"AgencyNumber=..." - Defines the specific agency for the server install.

(See the MainMenu->Settings->AgencyData screen, or call us at 650-726-7814 for your Agency Number.)



7. Internet IP Address Ranges and Connectivity Tests

APBnet uses outbound Internet TCP network connectivity to port 6565 on these five IP address **ranges**:

209.234.100.128/25	Test connectivity using->	telnet 209.234.100.188 6565
50.79.195.96/29	Test connectivity using->	telnet 50.79.195.98 6565
64.186.16.56/29	Test connectivity using->	telnet 64.186.16.58 6565
50.193.28.32/28	(server not yet on-line)	
204.152.189.64/27	(server not yet on-line)	

The Internet access to the above IP address ranges needs to be 'Clear Path' or 'ByPass' (no proxy server or Internet authentication requirement) from our desktop program 'APBnet.exe'. The APBnet traffic is encrypted using SSL. The APBnet software initiates only outbound sessions from the user's computer; there are no inbound sessions initiated by APBnet servers. The telnet commands shown can be used to test connectivity; the response should contain "...mysql...". It is normal for a successful telnet test to timeout after 15 seconds.

8. Agency Server

A few small files (probably a max of 25 MB) are stored in the shared folder on the Agency server or network drive. The user's Windows desktop computer retrieves the APBnet.exe from the server shared folder and the APBnet.exe runs on the user's desktop computer. There is no cpu usage on the Agency server and there is only minor file I/O activity on the server. There is very little local network traffic between the server and the user desktops. .Net does not need to be installed on the server (can actually be a Linux server). If the \\ UNC path method does not work in the .bat file, try a mapped drive. To see the path to the APBnet.exe a specific user is using, have the user start APBnet and go to MainMenu->System Status screen.

9. Latest Version of the Software

The latest version of the APBnet software will always be available from our download site. For access, contact us by email at Support@CriticalReach.Org or by phone at (650) 726-7814. To install an update to APBnet, refer to the "HowToUpdateAPBent.pdf" document at www.APBnet.net/APBnet-documents.

10. Changing a User from using a Desktop Installation to using a Server Deployment

Delete the current APBnet shortcut from the user's Windows desktop and replace it with your Server Deployment shortcut or web page link. Remove the Versionyymmdd folders from the 'CriticalReachAPBnetFiles' folder in his local Windows 'MyDocuments' folder

11. Windows Server 2003

If the server is running Windows Server 2003 and the user desktop is running Windows 7 64-bit, you might need to set the compatibility options on the APBnet stored on the server to Windows XP SP 3.

12. APBnet and Windows DotNet (on the desktop computer)

APBnet uses Microsoft Windows DotNet. In rare cases, a desktop computer might not have that Microsoft software installed. The lack of DotNet is sometimes indicated by error 0XC0000135 or 'can't find runtime' message when APBnet is started. Or you might get a system security block if you do not have the latest



version of DotNet installed. Other cases with strange errors have been reported. If you have one of these cases, use the link below to the Microsoft download site for DotNet 4 or provide the link to your IT person: <http://www.microsoft.com/en-us/download/details.aspx?id=17851>

13. Windows 7 and Server 2008 Steps for creating a .bat File

1. Open notepad (enter notepad into the search field and hit enter, or click on Start and All Programs and Accessories and NotePad).
2. Type your command line (on one line as per Note 6 above).
3. Save the file as a .bat file (select "All files" from the dropdown and then type in your file name, including ".bat" as the filename extension at the end of the filename).

14. Benefits of the 'Version...' Folder Naming Conventions

- a. It solves the problem of Windows preventing an update from being made due to the apbnet.exe being in use and therefore blocking the copy in of a new version.
- b. It documents the version being used while looking at the server's shared folder list.
- c. It allows the ability to easily back up to a previous version if needed.
- d. It allows different users in your org to run different versions (you will probably never use this).

15. Help Button

Most APBnet screens have a Help button in the lower right corner; click on it to display usage information.

(Batch File Command Line Parameters table for Note 6 above is on the next page)



650/726-7814
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Here is how the one-line batch file for Bulletin Search Only (row 1 in the table below) would look for the California San Mateo County Sheriff:
Start Versionymmdd/apbnet.exe "BulletinSearchOnly" "NoUserNumberPrompt" "State=CA" "County=San Mateo" "AgencyNumber=2028"

	Batch File Command Line Parameters Used				
User Functionality	BulletinSearchOnly	NoUserNumberPrompt	State=	County=	AgencyNumber=
Bulletin Search Only without User# Prompt (see example below table)	Yes	Yes	Yes	Yes	Yes
Full Function Users with individual User#'s User# is read from IDfile.txt in the User's MyDocuments/CriticalReachAPBnetFiles folder. File is created at first-time use of APBnet by the User. (user gets a one-time prompt for User# and Install Password).	No	No	No	No	No