

pitt&sherry

Phonebook

Installation and configuration guide

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February 2010

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1. Installation

1.1 Server Configuration

Phonebook requires a network share with at least read-only access for all users who will be using the application. This share will contain the configuration files set up by the administrator. These configuration files are used by the Phonebook application on users machines to connect to, query and display entries from Active Directory.

1. Create your network share with read-only permissions for users (as a minimum) and read/write for administrators.
2. Run the **server-setup.exe** application to begin installation of configuration files.
3. Choose your network share in the installation wizard and the required files will be extracted to this location.

1.1.1 ServerSettings.xml

Server settings are copied from the server each time a user executes the Phonebook application. These settings are then used by the client to retrieve data from various locations such as Active Directory and SQL server. Therefore these settings must contain names and paths which can be resolved by a client computer. For example, setting **SQLServerName** = **(local)** will cause client computers to look at themselves for the Phonebook database.

XML Element	Description	Example
ADPath	The path to your Active Directory Domain Service.	LDAP://COMPANY
ADQuery	An Active Directory query which will be used to retrieve the Phonebook entries from Active Directory.	(objectClass=user)
UseSQL	Allowed values are true or false. Only set to true if you have entered values for the SQLServerName and SQLDatabaseName .	false
SQLServerName	The server name (including instance name if required) of an SQL server with a Phonebook database. Clients will use trusted connection to connect to the SQL server.	192.168.0.1 or MyServer\MyInstance
SQLDatabaseName	The name of a Phonebook database on the given SQL server. Ensure users can connect to this database using trusted connection.	Phonebook
PhotoPath	The full UNC path of the directory which contains Phonebook entry photos (full explanation below). A Photos directory was created by the server setup in your network share.	\\MyServer\MyShare\Photos\
MappingPath	The full UNC path to the MappingSettings.xml file (explained below).	\\MyServer\MyShare\MappingSettings.xml
LicensePath	The full UNC path to the license file. This license file will be provided when you purchase the software.	\\MyServer\MyShare\license.lic

Note: Special characters like ampersand (&) and duples (< or >) cannot be used in these fields unless escaped. For example, to use ampersand enter the value `&`; or for a left dipole use `<t;`. To escape an entire value use the CDATA tag like so:

```
<ADQuery><![CDATA[ (&(objectClass=user) (company=pitt&sherry)) ]]></ADQuery>
```

1.1.2 MappingSettings.xml

Mapping settings are also copied from the server each time a user executes the Phonebook application. These settings are used to map fields from Active Directory to Phonebook entries. The defaults provided should be sufficient for most standard Active Directory configurations but the option is here to change how you map your data.

Note: Any of these fields can be left blank if you do not want them showing up in the Phonebook.

XML Element	Description	Example
GivenName	The field name in Active Directory which contains data for the given name of a Phonebook entry.	givenName
Surname	Surname for Phonebook entry.	sn
Telephone	Telephone number for Phonebook entry.	telephoneNumber
TelephoneShortDial	Telephone short dial number for Phonebook entry.	ipPhone
Mobile	Mobile number for Phonebook entry.	mobile
MobileShortDial	Mobile short dial number for Phonebook entry.	
Email	Email address for Phonebook entry.	mail
Username	Username for Phonebook entry.	sAMAccountName
Position	Position title for Phonebook entry	title

1.1.3 SQL Server Database (Optional)

The SQL Server database is used to log users and their computer names. This data is used to allow VNC to connect to other users computers.

After running the server setup, there will be an SQL script in your network share location to create the schema of the Phonebook database. Once the database has been created you can delete this script.

1. Open SQL Server Management Studio.
2. Create a new database to contain the Phonebook data. This way you can choose the location of your data files, the recovery model, permissions etc.
3. Open the **phonebook-schema.sql** file.
4. Set the database for the SQL script to your newly created database from step 2.
5. Execute the script to create the required tables.
6. Delete the script once the script has executed successfully.

1.1.4 Photo Path (Optional)

The Phonebook can display photos for each entry in the list. It does this by looking in a specific directory on a shared network drive. Photos are matched to their corresponding entries in the Phonebook by filename and username (explained below). All images must be JPEG with the `.jpg` file extension and be no higher than 55 pixels.

The Username field is the key for reading the correct photo for each entry. By default, the Active Directory field `sAMAccountName` is used for Username. For each object in Active Directory this might have a value such as "jcitizen" or "john.citizen". Therefore the photo which corresponds to this entry would be named `jcitizen.jpg` or `john.citizen.jpg` respectively.

Note: For performance, the Phonebook simply outputs the image to the screen without modification. An image greater than 55 pixels in height will end up drawing over the top of other entries in the list. Width of the image is not an issue as the text will align accordingly. For aesthetics, all images should be the same width and height. The width and height of the default placeholder (the silhouette) is 47x55 pixels.

1.2 Client Install

1. Run the `client-setup.exe` application to begin installation.
2. Follow the steps in the wizard to install the application.
3. Once the installation is complete, run the Phonebook.
4. On first run, the Phonebook will not have the server configuration file path. Phonebook will prompt you to enter this path. You must choose the `ServerSettings.xml` file from your network share.
5. If you have your server settings, Active Directory mapping settings and license file set up correctly, then the Phonebook will load. If they are not set up correctly, you will receive a message informing you of the specific issue.