

# AD Phonebook 3

## Installation and configuration

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## Introduction

AD Phonebook is a browser based program that provides quick and easy access to your organizations personnel data stored in Active Directory making it an ideal staff directory.

## AD Self Update

AD Self Update is a separate program that allows your users to update their own Active Directory contact information ensuring your phonebook is as up to date as possible. To read more about [AD Self Update](#) [click here](#). AD Self Update can be purchased separately.

## Technical Support

This document will walk you through AD Phonebook installation and configuration. Should you have any questions please contact us at [support@dovestones.com](mailto:support@dovestones.com).

## Prerequisites

The following software should be installed before installing the application:

- Windows Server 2008 SP2, 2008 R2, 2012, 2012 R2, 2016.
- Internet Information Services (IIS) with World Wide Web Service installed.
- Microsoft .NET Framework 4.5
  - Application pool set to v4.0, 32bit
- SQL Compact 4 (added during installation)
  - External Microsoft SQL Server is also supported

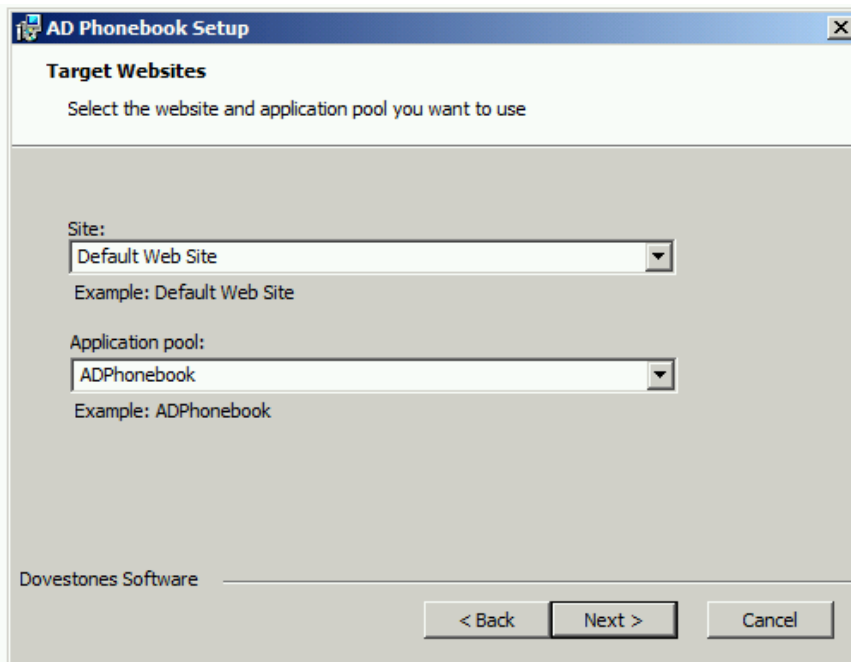
You will also need:

- A service account that has permissions to read Active Directory user objects, this should be a standard Active Directory user account that has a strong password and 'Password Never Expires' checked.

## Installation

Please follow these steps to deploy the application:

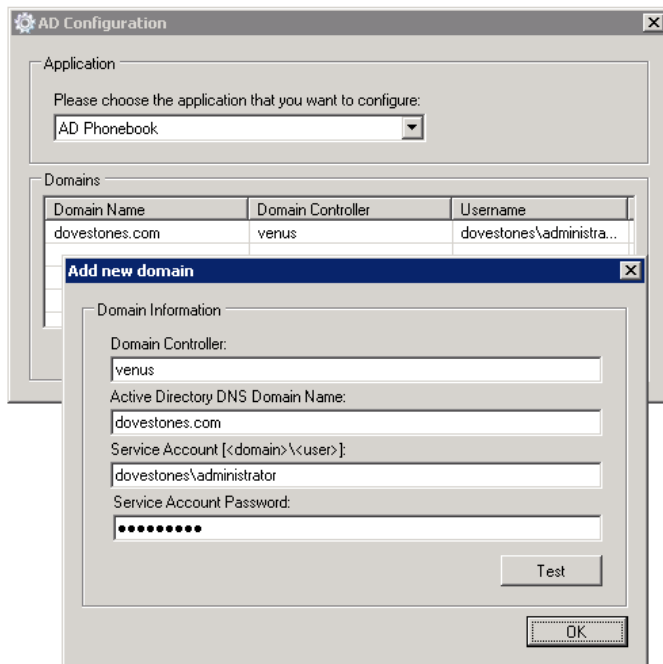
1. Run the installer file and click *Next* at the welcome screen
2. Select the web site where you would like the phonebook installed. Select an Application Pool to use or type ADPhonebook and one will be created.



3. Wait for the installation to complete then click *Finish*.
4. Upon a successful installation run the AD Phonebook Configuration to add a service account which will be used to connect to and read from Active Directory (see below).

Follow these steps to configure the Active Directory domain(s) that the application will use.

1. Open the *AD Configuration* utility from the *Start Menu* → *All Programs* → *Dovestones Software* → *AD Phonebook Config*.
2. From the *Application* drop down list, choose *AD Phonebook*.
3. Click on the *Add Domain* button.
4. Enter the required domain information (see image below) and user credentials then click *OK*.  
Note: You must supply user credentials for a domain administrator that has sufficient permissions to read user and contact objects.



5. Repeat steps 3 and 4 to add more domains (optional).
6. Press 'Test' to check the username and password are valid.
7. Basic configuration is now complete close the program.

## Accessing the AD Phonebook web page

When you have added your service account using the AD Configuration tool you can visit the AD Phonebook web page, the address depends on the web site where you have chosen during the installation (step 2), if this was the default web site then the URL <http://localhost/ADPhonebook> should work.

Your URL would be the web site address followed by /ADPhonebook.

Example URLs:

<http://servername/adphonebook/>  
<http://192.168.1.2/adphonebook/>  
<http://172.16.1.2/adphonebook/>  
<http://10.10.1.2/adphonebook/>

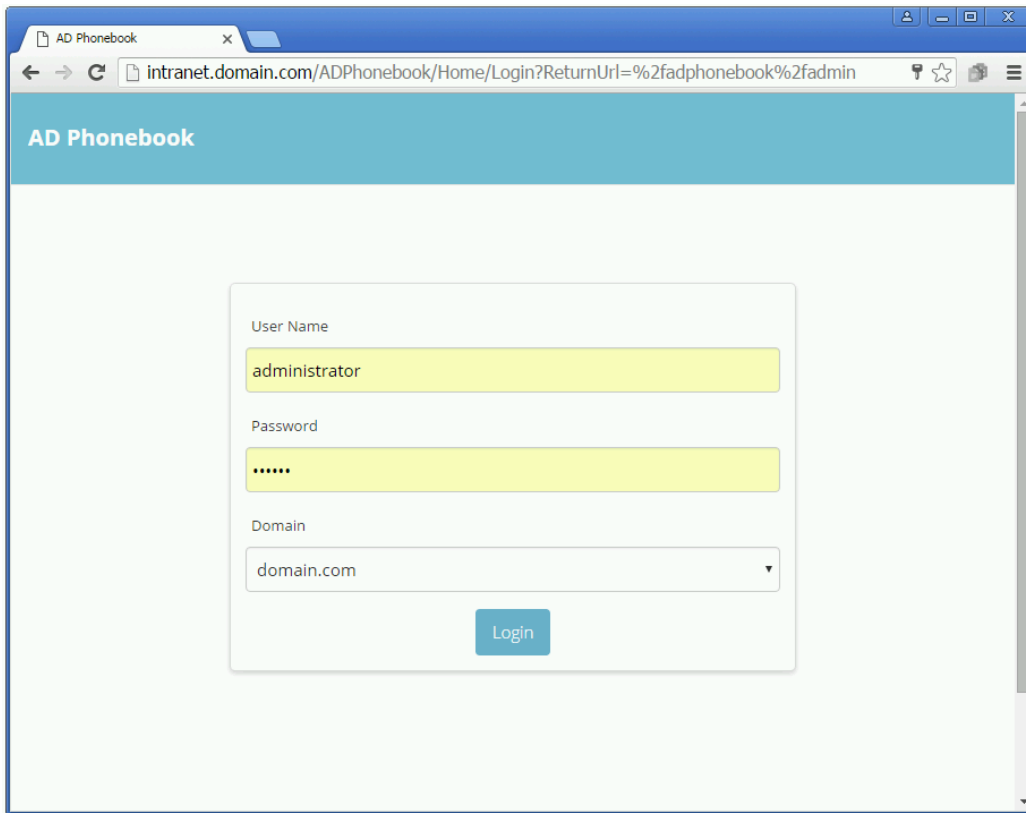
Note: The first load of the phonebook will take a little longer than normal as the database syncs with Active Directory. You can force this sync via the admin page (see below).

## Accessing the Admin page

The Admin page allows you to customize the phonebook, the Admin page can be accessed by adding /Admin to the phonebook URL. By default, users that are members of the Domain Admins, Built-In\Administrators (in AD not local) can access the admin page. Alternatively, you can create a group named ADPhonebookAdmins anywhere in AD and members of this group are granted access. Regular domain users will be unable to access the admin page.

Example URL:

<http://servername/adphonebook/admin/>



### Saving Changes

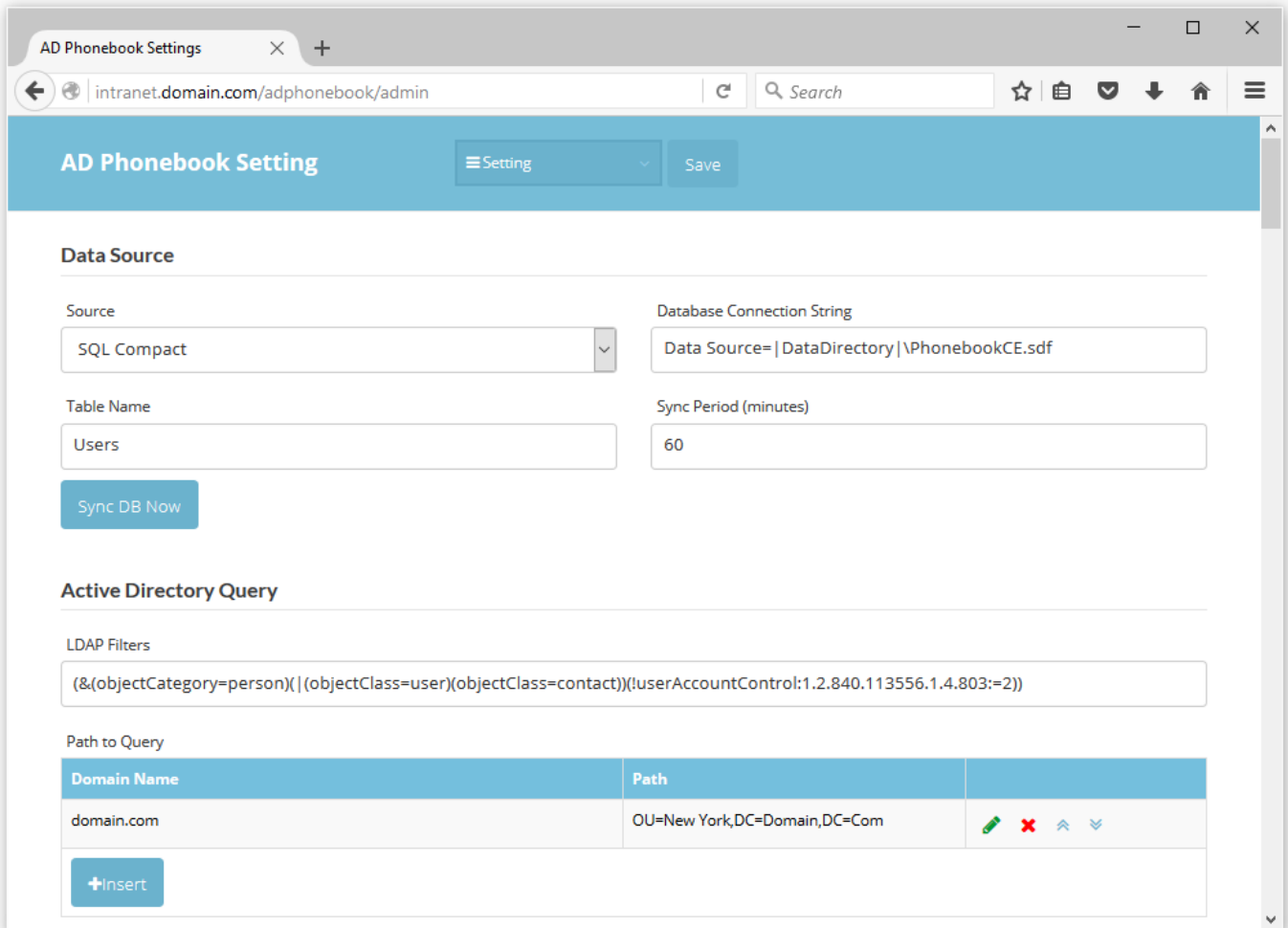
When you have made changes on the Admin page click the save button in the header to save the changes.

The changes are written to the 'Settings.config' file which can be found in the App\_Data folder (typically: C:\inetpub\wwwroot\ADPhonebook\App\_Data\).

### Data Source

Below is a screen shot of the Admin page showing the Data Source section. Here you can specify a data source and how frequently the program will synchronize with Active Directory, the default is 60 minutes. The default data source is SQL Compact. An external Microsoft SQL Server is also supported.

Note: Click the button 'Sync DB Now' to start the synchronization with Active Directory.



## Who is shown in the phonebook?

The Active Directory Query section of the Admin page controls which users/contacts are shown in the phonebook. The LDAP query will show users and contacts but hide disabled users, you can change this if you need to.

### Active Directory Query

LDAP Filters

(&(objectCategory=person)(|(objectClass=user)(objectClass=contact))(!userAccountControl:1.2.840.113556.1.4.803:=2))

Path to Query

Domain Name	Path	
domain.com	OU=New York,DC=Domain,DC=Com	













+insert


By default, the program will only show users that have a value in the telephone number (*telephoneNumber attribute*) and an email address (*mail attribute*). You can add/remove attributes to suit your requirements.

### Paths to query

By default, the phonebook will query the whole domain, you can restrict this to query to selected OUs by adding these OUs to the Path to Query section, in the example below, users in the New York, Staff and Students OUs would appear in the phonebook, users outside of these OUs would not be shown.

Path to Query

Domain Name	Path	
domain.com	OU=New York,DC=Domain,DC=Com	   
domain.com	OU=Staff,DC=Domain,DC=Com	   
domain.com	OU=Students,DC=Domain,DC=Com	   



### Hidden Users, Groups and OUs

Should you want to hide certain users or groups add them to the Hidden Users/Group/OUs section (e.g. Administrator or Domain Admins etc).

Hidden Users

\*One Username per line

Hidden Groups

\*One Group per line

Hidden OUs

\*One OU per line

Hide User with Missing Properties

telephoneNumber

mail

\*One LDAP property per line



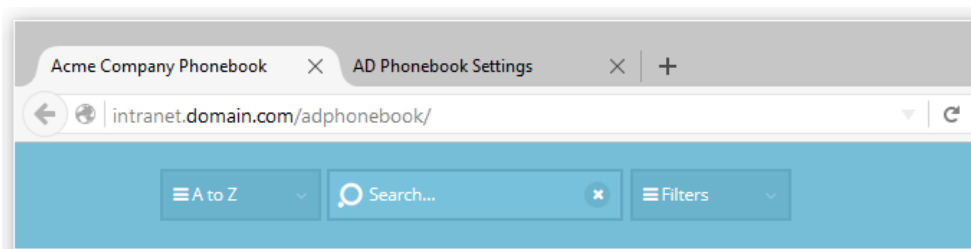
## General Settings

### General Settings

Page Title and Logo Text <input type="text" value="Acme Company Phonebook"/>	Page Size <input type="text" value="19"/>	Default Domain <input type="text"/>
Domain Dropdown List <input checked="" type="radio"/> Hidden <input type="radio"/> Visible	Export Formats <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> XLS <input type="checkbox"/> RTF <input type="checkbox"/> CSV	
Filter Character <input type="text" value="A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z"/> <small>*Comma for separation</small>		
Local Photo Preferred <input checked="" type="radio"/> Enable <input type="radio"/> Disable	Local Photo Path Format <input type="text" value="D:\photos\%username%.jpg"/>	
Footer Text (html accepted) <input type="text"/>		

### Page Title and Logo Text

The phonebook title will appear on the logon page and browser tab.



### Page Size

The Page Size value controls how many users/rows are shown per page.

### Default Domain

If you have more than one domain specified using the AD Phonebook Config program and you would like this to be shown first in the Domains drop down filter specify it here.

### Domains Drop-Down Filter

If you have multiple domains and you want users to be able to switch between domains (e.g. Staff and Students) and perform searches against a specific domain set 'Domains Drop-Down List' to Visible.

You will need to add each domain to the AD Phonebook Config utility then enable the domains drop-down list in the Admin page.



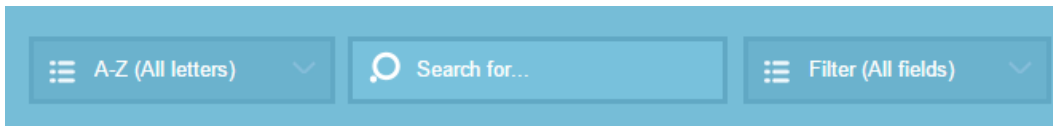
Also see [Domain Mappings](#).

### Export Formats

You can give your users the option of export the phonebook to a file. The export formats are PDF, XLS (Excel), RTF (opens in Word or similar) and CSV (Comma Separated Value).

### Search Mode

Advanced search is enabled by default, enabling Simple mode will remove the Filter and leave just the search box.



### Filter Characters

The characters shown in the A-Z filter can be changed to include different characters if needed.

### Photo Settings

By default a user's photo is not shown in the main grid, they are displayed when you click on an entry to see the user's details. To display the photo in the main grid set User Photo to Visible.

The photos are read from the thumbnailPhoto attribute in Active Directory, you can change this if needed. You can also change the size of the image that is shown in the phonebook, the default size is 50px x 50px.

#### Photo Settings

User Photo:	<input type="radio"/> Visible <input checked="" type="radio"/> Hidden
LDAP Property:	<input type="text" value="thumbnailPhoto"/>
Not found image:	<input type="text" value="-/Contents/home/img/no_photo.jpg"/>
Maximum width:	<input type="text" value="50"/> Pixels
Maximum height:	<input type="text" value="50"/> Pixels

### PDF Export Settings

There are a several options you can use when exporting to PDF. You can set the orientation of the page, landscape maybe better if you have more than five columns shown. The option 'Auto-Fit Width' will expand the columns to fill the page width. You add text you would like shown in the header and footer of the PDF to the header and footer sections. You can adjust the font size and change the margin size.

























## PDF Export Setting

Page Orientation <input type="radio"/> Portrait <input checked="" type="radio"/> Landscape	Autofit width <input checked="" type="radio"/> Yes <input type="radio"/> No
Page Header <input type="text"/>	Page Footer <input type="text"/>
Margin on Left <input type="text" value="40"/>	Margin on Right <input type="text" value="40"/>
Margin on Top <input type="text" value="30"/>	Margin Bottom <input type="text" value="30"/>
Table's Header font size <input type="text" value="11"/>	Table's Content font size <input type="text" value="10"/>


## Column Settings

By default the phonebook will display the columns listed below. In the Column Settings section you can add, remove or edit columns. You hide columns, specify which column the users will be sorted by, create hyperlinks and use regular expressions to format the values shown.

### Column Setting

Header Text	LDAP Property	Visible	Sort	
Name	cn	true	true	   
Email Address	mail	true	false	   
Department	department	true	false	   
Title	title	true	false	   
Phone	telephoneNumber	true	false	   
Manager	manager	true	false	   

[+ New Column](#)

Clicking on the 'New Column' button will open the Edit column window, here you can add additional columns that will be shown in the main grid. Clicking on the edit  button will allow you to edit existing columns.

### Header Text and LDAP Property

Below is an example column, the Header Text can have any name but the LDAP Property must exactly match the Active Directory property name. For example you could have the Header Text read 'Car Parking Space' and the LDAP Property could be extensionAttribute1.

## Add Column



Header Text	LDAP Property	
<input type="text" value="Email Address"/>	<input type="text" value="mail"/>	
Visibility:	Hyperlink	
<input checked="" type="radio"/> Display <input type="radio"/> Hide	<input checked="" type="checkbox"/> Display As a Hyperlink	
URI Format	Regex Pattern	Replace By
<input type="text" value="mailto:{0}"/>	<input type="text"/>	<input type="text"/>
Sort		
<input type="checkbox"/> Sort by this column		
Width	Mobile Width	
<input type="text" value="180"/>	<input type="text" value="20"/>	
Hide on Mobile		
<input type="checkbox"/> Hide on Mobile		

## Hide Columns

If you want to temporarily hide the column from view you can change the visibility to Hidden.

## Hyperlink

If you would like the column value to be a hyperlink check the Hyperlink check box and enter a protocol or scheme name e.g. `mailto:{0}` or `tel:{0}`. You can also use the URI text box to pass arguments in the URL for example the default manager column contains the URI value `../ADPhonebook/?name={0}` this is used to display the managers details when the managers name is clicked.

## Regular Expressions

You can use regular expressions (abbreviated as Regex) to manipulate the displayed values. Certain attributes such as 'manager' contain the full LDAP path to the managers user object (E.g. `CN=John Smith,OU=Managers,DC=Domain,DC=Com`), Regular Expressions can be used to remove the path and leave just the managers name (E.g. John Smith) which is easier to read. Regular expressions can be applied to any column/attribute by clicking the 'Edit' button for that column on the 'List Columns' tab.

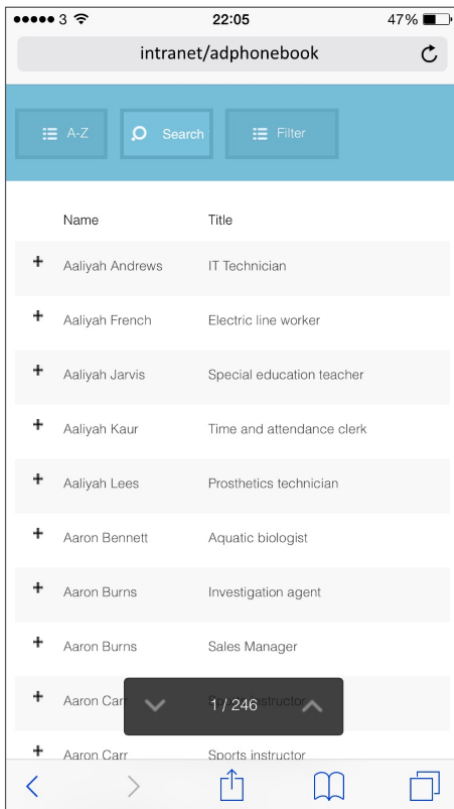
Header Text	LDAP Property	
<input type="text" value="Manager"/>	<input type="text" value="manager"/>	
Visibility:	Hyperlink	
<input checked="" type="radio"/> Display <input type="radio"/> Hide	<input checked="" type="checkbox"/> Display As a Hyperlink	
URI Format	Regex Pattern	Replace By
<input type="text" value="../ADPhonebook/?name={0}"/>	<input type="text" value="^CN=(.+?),(?:CN OU DC)=.*"/>	<input type="text" value="\$1"/>

## Hide On Mobile

When the phonebook is viewed on a mobile device you'll want to hide some columns to make it easy to read due to the limited width on mobile devices. Use the hide on mobile check box to hide columns you

don't want to show on mobiles, some of the default columns already have this checked. You can still see hidden values by adding them to the users details (clicking/touching the users name).

Example showing two columns on mobile, touch the row to view details on that user.



## Filters

By default the main grid is filtered using the cn attribute (Name column), you can change this to another column.


## Details Section

When you click or touch a user's name or the + symbol detailed information about the user is displayed. You can customize the tabs and the content shown on these tabs via the Details Section on the Admin page.

Name	Email Address	Department	Title	Phone	Manager
+ Aaron Bennett	ABennett1@domain.com	Sales	Team Member	124	Daisy Ashton
+ Aaron Dennis	ADennis@domain.com	Technical	Elementary school teacher	128299	Adam Cain
- Aaron Harrison	AHarrison@domain.com	HR	HR Administrator	195959	Adam Cain

General   Organization   Address   Telephones   Direct Reports





















**General**

 Display Names: [Aaron Harrison](#)  
 Email: [AHarrison@domain.com](mailto:AHarrison@domain.com)  
 Telephone: 195959  
 Mobile: 070 7712 6789

Clicking on the 'New Section' button will open a new window, here you can add additional tabs that show next to the existing tabs. Clicking on the New Row button will allow you to add new row/attribute.

You can change the order the tabs appear by using the arrows.

### Detail Sections

Title	Visible	
General	true	   
Organization	true	   
Address	true	   
Telephones	true	   
Direct Reports	true	   

[+ New Section](#)

## Domain Mappings

If you have more than one domain and you have the domain drop down box shown you can assign a friendly name to each domain.

For example instead of users seeing *miami3.internal.net* they can see *Miami Office* (or similar).

## Interface

You can customize the colours used in the phonebook by changing the six-digit hexadecimal colour value. Click the Restore button to restore the original default colours.

### Interface

Header Background Colour	Searchbox Input Colour
<input type="text" value="#76bdd7"/>	<input type="text" value="#78c1dc"/>
Filters and Buttons Background Colour	Headerbox Borders Colour
<input type="text" value="#6bb2cd"/>	<input type="text" value="#61a8c4"/>
Hyperlink Colour	Filter Hover Colour
<input type="text" value="#006687"/>	<input type="text" value="#6bb2cd"/>
Details Text Colour	
<input type="text" value="#448ea6"/>	
<input type="button" value="Restore"/>	

### Logo Setting

Show logo	Select image with size less than or equal to 160 x 70 pixels
<input type="radio"/> Visible <input checked="" type="radio"/> Hidden	<input type="button" value="Choose logo file"/>

## Using HTTPS and SSL Certificates

Whilst the phonebook will work perfectly using HTTP its best practice when a web site contains sensitive data to install an SSL certificate and access the site using HTTPS.

## Querying the phonebook via a URL

The AD Phonebook can take queries passed via the URL, you can query any of the columns that are being displayed in the phonebook. The url should be followed by a question mark then the column name and the value you want to search for. You can combine two or more using &.

e.g. <http://server/adphonebook?columnName=value>

Below are a few examples:

<http://server/adphonebook?department=sales>

<http://server/adphonebook?department=sales&title=manager>

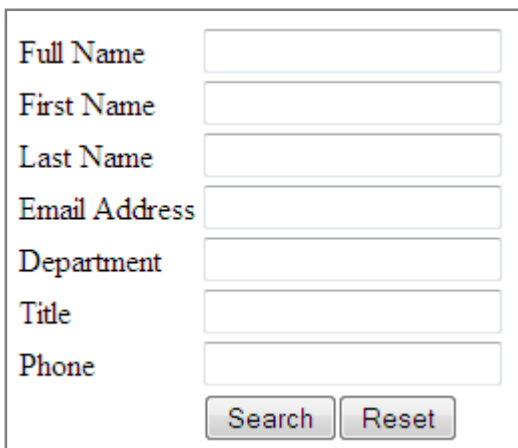
<http://server/adphonebook?department=purchasing&title=teacher&manager=samantha>

## Querying the phonebook from other web pages

The AD Phonebook can take queries passed from another web page such as an intranet page. Below is an example html form that will query the phonebook. Form elements can be added or removed.

### Example

```
<html>
<head>
  <title>Example</title>
</head>
<body>
  <form action="/adphonebook" method="get">
    <table>
      <tr><td>Full Name</td><td><input type="text" name="Full Name" /></td></tr>
      <tr><td>First Name</td><td><input type="text" name="First Name" /></td></tr>
      <tr><td>Last Name</td><td><input type="text" name="Last Name" /></td></tr>
      <tr><td>Email Address</td><td><input type="text" name="Email Address" /></td></tr>
      <tr><td>Department</td><td><input type="text" name="Department" /></td></tr>
      <tr><td>Title</td><td><input type="text" name="Title" /></td></tr>
      <tr><td>Phone</td><td><input type="text" name="Phone" /></td></tr>
      <tr><td></td><td><input type="submit" value="Search" />
        <input type="reset" value="Reset" /></td>
      </tr>
    </table>
  </form>
</body>
</html>
```



Full Name	<input type="text"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
Email Address	<input type="text"/>
Department	<input type="text"/>
Title	<input type="text"/>
Phone	<input type="text"/>
	<input type="submit" value="Search"/> <input type="reset" value="Reset"/>

### Simple example

```
<html>
<head>
  <title>Example</title>
</head>
<body>
  <form action="/adphonebook" method="get">
    <table>
      <tr><td>Full Name</td><td><input type="text" name="Full Name" /></td></tr>
      <tr><td>Department</td><td><input type="text" name="Department" /></td>
    </table>
  </form>
</body>
</html>
```



```
<td></td><td><input type="submit" value="Search" /></td>
</tr>
</table>
</form>
</body>
</html>
```



A screenshot of a search form. It contains two input fields: the first is labeled "Full Name" and the second is labeled "Department". To the right of the "Department" field is a button labeled "Search".

## Embedding the phonebook within an iframe

Below is an example snippet of code that would load the phonebook within an iframe, the height and width would force the phonebook into mobile view.

```
<iframe src="http://localhost/adphonebook" height="627" width="375" allowfullscreen=""
frameborder="0"></iframe>
```

## Help and Support

If you require any help installing or configuring AD Phonebook contact [support@dovestones.com](mailto:support@dovestones.com).