









UsersADBrowser

Web Part for SharePoint 2010 (SharePoint Foundation 2010 / SharePoint Server 2010) to display a list of users and organizational units Active Directory.

Main features:

- Customizable appearance through the use of ascx-templates;
- The ability to display a hierarchy tree of AD organizational units;
- The ability to specify a list of attributes for display in the list of users and in the user info page;
- Search in all attributes of user list;
- Export to Excel;
- The ability to use external source to store photos and display them in a user list;
- Localization in English and Russian languages by use of resource files;
- Use of the caching mechanism to minimize requests from Web Part to a domain controller;

☒ Show employees of all child organizational units [Export to Excel](#)

	Photo	Last name	First name	Job Title	Department	Work phone	Office	Email
Department of design								
Department of development								
Programming dept								
Project management dept								
Research dept								
Testing dept								
Department staff								
Top management								
		Anderson	Julia	Doctor of Technical Sciences	Research	187	110E	janderson@server.com
		Donovan	Michael	Vice President	Top management	075 111 12 55	111G	mdonovan@server.com
		Florentino	Lisa	Head of department	Staff	077 999 55 11	202G	lflorentino@server.com
		Goodman	John	Project Manager	Project Management	075	119	jgoodman@server.com
		Hamilton	Alexander	Programmer	Programming	090	709A	ahamilton@server.com
		Ivanov	Ivan	Designer	Creative Design	555	117H	ivanov@server.com
		O'Neil	David	Designer	Technical Design	070 444 99 97	222K	dneil@server.com
		Smith	John	President	Top management	075 444 79 99	200E	jjohn@server.com

Total employees in the list: 14

Requests from Web Part to the Active Directory are executed in the context of the Web Application Pool account.

Installing the WSP-solution UsersADBrowser

1. Run the SharePoint 2010 Management Shell Console which should be located in Microsoft SharePoint 2010 Products folder of start menu. Remember to use "Run as administrator"
2. Use the following PowerShell command for adding WSP-solution to the farm
 - a. Add-SPSolution "C:\<Path to WSP-file>\UsersADBrowser.wsp"
3. To install the solution use the following "Install-SPSolution" command
 - a. Install-SPSolution -Identity UsersADBrowser.wsp -WebApplication http://<your_web_application> -GACDeployment
4. To enable the site collection feature use the "Enable-SPFeature" command
 - a. Enable-SPFeature -Identity UsersADBrowserWebPart -url http://<your_web_application>
 - b. Or activate feature UsersADBrowserWebPart via the GUI
http://<your_web_application>/_layouts/ManageFeatures.aspx?Scope=Site
5. Add a Web Part UsersADBrowser to the page of your web application
6. Go to the edit mode and set the Web Part parameters

Installed files

- UsersADBrowser.dll
 - Main assembly. Installed in the GAC (folder C:\Windows\assembly).
- C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\CONTROLTEMPLATES\UsersADBrowser
 - There are ASCX-templates of web-part and local resources located in this folder
- C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrowser
 - There are ASPX-files that generate user info pages, css, js-files and helper images located in this folder
- C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\FEATURES\UsersADBrowserWebPart
 - Folder with feature, which activates the web part in the site collection
- Web Application Global Resource files
 - C:\inetpub\wwwroot\wss\VirtualDirectories\<web_app_folder>\App_GlobalResources\UsersADBrowser.resx - English localization
 - C:\inetpub\wwwroot\wss\VirtualDirectories\<web_app_folder>\App_GlobalResources\UsersADBrowser.ru-ru.resx - Russian localization
- In the web.config file of web application was added next record
 - <SafeControl Assembly="UsersADBrowser, Version=1.0.0.0, Culture=neutral, PublicKeyToken=a1d1f24b7f649a42" Namespace="UsersADBrowser.WebParts" TypeName="*" Safe="True" SafeAgainstScript="False" />

Web Part parameters

Parameter	Description
LDAP Path start entry	LDAP-path to the Active Directory container Examples: <ul style="list-style-type: none">• LDAP://DC=devdomain,DC=dev• LDAP://OU=EmployeesOU,DC=devdomain,DC=dev
LDAP Users filter	Filter by default selects enabled user accounts whose surnames is not empty Examples: <ul style="list-style-type: none">• (&(objectCategory=Person)(objectClass=User)(sn=*)(!userAccountControl:1.2.840.113556.1.4.803:=2))• (&(objectCategory=Person)(objectClass=User)(sn=*))
AD user property attributes for user list (delimiter ",")	A list of system names of AD-attributes separated by commas. The values of these attributes will be displayed in the user list. Localized attribute names are in the global resource file of current web app: App_GlobalResources\UsersADBrowser.resx and App_GlobalResources\UsersADBrowser.ru-ru.resx When you add an attribute that is not present in the list by default, you must add it's localized name in resx file. Resource file is a simple XML-file and can be edited in a text editor like Notepad. Examples: <ul style="list-style-type: none">• sn,givenName,title,department,telephoneNumber,physicalDeliveryOfficeName,mail• displayName,title,department,telephoneNumber,physicalDeliveryOfficeName,mail,manager
AD user property attribute for sorting user list	Examples: <ul style="list-style-type: none">• sn – sort by surname• displayName – sort by displayName attribute
AD user property attribute for the link to a page with detailed info	Examples: <ul style="list-style-type: none">• sn• displayName
List of names of organizational units that should be excluded (delimiter ",")	List the names of organizational units Active Directory, which should not appear in the hierarchy tree (users from excluded OUs are not displayed in the user list) Examples: <ul style="list-style-type: none">• Domain Controllers,Trash• Test OU,Domain Controllers,Trash
View mode	Possible values: <ul style="list-style-type: none">- Full (a hierarchical list of organizational units and list of users are shown in this mode)- UserList (only list of AD-users is shown in this mode)
User Info mode	Possible values: <ul style="list-style-type: none">- DialogWindow (user info is displayed in a popup DHTML-window)- Page (user info is displayed on a separate ASPX-page /_layouts/UsersADBrowser/UserInfo.aspx)- ExternalPage (links lead to external page with parameter ?accountname=<user_account>, for example, /my/Person.aspx) List of Active Directory attributes, which should be displayed in the user info page is defined in the following files C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrowser\UserInfo

	Ajax.aspx and C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrower\UserInfo.aspx For description of parameters, see below under "Parameters of UserInfoControl" section
Address of external page, that displays user info (only for User Info mode = ExternalPage)	Address of the external page to display information about the user (only used when you set parameter "User Info mode" to ExternalPage - see description above)
Show presence information (uses the status of Office Communicator)	Display indicator of presence information. This feature uses the built-in feature of SharePoint 2010 and is based on Office Communicator client app functionality. Web application must be pre-configured to support feature of displaying presence information. Indicator of presence information works only in Internet Explorer.
Show the user photo	Display photos in the users list or not
Format of url of photos users	It is possible to use variables: <ul style="list-style-type: none"> - {DOMAIN} – replaced by the domain name; - {LOGIN} – replaced by the user login; Examples: <ul style="list-style-type: none"> • /Photos/_t/{DOMAIN}_{LOGIN}_jpg.jpg • /Photos/{LOGIN}.jpg
Width of photos in list	Width of the images in the user list
Allow sorting	If this option is enabled, the user can sort user list by clicking on the column headers.
Caching time of organizational units (minutes)	Cache time in minutes of a hierarchical list of organizational AD units. Default value - 120 minutes.
Caching time of user list (minutes)	Cache time in minutes of user lists. Default value – 120 minutes.

Parameters of UserInfoControl

List of attributes Active Directory, which should display in the user info page is defined in the following files

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrower\UserInfoAjax.aspx and

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrower\UserInfo.aspx

The first page is used to display a popup window with information about the user, and the second page is used to display user info on a separate page.

Properties of UADB:UserInfoControl

Parameter	Description
LDAPProperties	A list of system names of AD-attributes separated by commas. The values of these attributes will be displayed in the user info page. Localized attribute names are located in the global resource file of

	current web app. Example: <ul style="list-style-type: none"> displayName,title,department,telephoneNumber,physicalDeliveryOfficeName,mail,manager
IsShowPresence	Possible values: True or False
IsShowPhoto	Possible values: True or False
ImageFormatUrl	Format of images url. See above for similar parameter in the Web Part parameters table.
ImageWidth	The width of the image. If the value 0, then the image is displayed in original size.
CachingTime	Cache time in minutes of user info data. Default value – 20 minutes.

Design customizing

Customizing the appearance of Web Part UsersADBrowser is possible, through the use of ascx-templates.

Main WebPart template:

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\CONTROLTEMPLATES\UsersADBrowser\Browser.ascx

Template of User Info:

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\CONTROLTEMPLATES\UsersADBrowser\UserInfo.ascx

Pages with detailed information about the user:

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrowser\UserInfoAjax.aspx

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrowser\UserInfo.aspx

Users image by default:

C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\LAYOUTS\UsersADBrowser\img\person.png

Information about developer

Name: Yuri Khristoforov

Email: jyura@mail.ru

Web: <http://usersadbrowser.codeplex.com>, <http://activex.net.ru>