

```
using System;
using System.Collections.Generic;
using System.Text;
using ActiveDs;
using System.Security.Principal;

namespace ADnet001
{
    class Program
    {
        static void Main(string[] args)
        {
            ADnet beispiel = new ADnet();
            //beispiel.newUser();
            //beispiel.changeUser();
            //beispiel.searchUser("");
            beispiel.membership();
            Console.ReadLine();
        }
    }

    class ADnet
    {
        // Objekte anlegen bzw. zuweisen
        System.DirectoryServices.DirectoryEntry de = new System.DirectoryServices.DirectoryEntry("LDAP://ou=test, dc=test, dc=local");
        System.DirectoryServices.DirectoryEntries des;
        System.DirectoryServices.DirectoryEntry sub;

        public ADnet()
        {
        }

        // das alte ADSI

        ActiveDs.IADs i;
        ActiveDs.IADsUser iu;

        public void newUser()
        {
            // Neues Item anlegen
            des = de.Children;
            sub = des.Add("cn=muster", "user");
            sub.CommitChanges();

            // Attribute zuweisen bzw. ändern
            sub.Properties["sn"].Value = "Mustermann";
            sub.InvokeSet("givenName", "Heinrich");
        }
    }
}
```

```
        sub.CommitChanges();
    }

    public void changeUser()
    {
        // Multiwert Attribute zuweisen bzw. ändern

        System.DirectoryServices.DirectoryEntry muster = new System.DirectoryServices.DirectoryEntry("LDAP://cn=muster, ou=test, dc=test, dc=local");

        muster.Properties["otherTelephone"].Add("1234");
        muster.Properties["otherTelephone"].Add("5678");
        muster.CommitChanges();
    }

    public void searchUser(string sid)
    {
        // User suchen

        System.DirectoryServices.DirectorySearcher ds = new System.DirectoryServices.DirectorySearcher("Test");
        System.DirectoryServices.DirectoryEntry root = new System.DirectoryServices.DirectoryEntry("LDAP://dc=test, dc=local");
        System.DirectoryServices.SearchResultCollection src;
        System.DirectoryServices.SearchResult sr;

        // parameter der Suche festlegen
        ds.SearchScope = System.DirectoryServices.SearchScope.Subtree;
        ds.SearchRoot = root;
        //ds.Filter = "(&(objectClass=User)(cn=a*))";
        ds.Filter = "(&(objectClass=User)(objectSID=" + sid + "))";

        // Einen gefunden User ausgeben

        sr = ds.FindOne();

        Console.WriteLine(sr.Path);

        // Alle gefunden User ausgeben

        src = ds.FindAll();

        foreach (System.DirectoryServices.SearchResult srx in src)
        {
            System.DirectoryServices.DirectoryEntry resultUser = new System.DirectoryServices.DirectoryEntry(srx.Path);
            Console.WriteLine(srx.Path + ";" + resultUser.Properties["cn"].Value);
        }
    }

    public void membership()
    {
```

```
    // Authentifizierung prüfen
    string s = System.Security.Principal.WindowsIdentity.GetCurrent().Name.ToString();
    string t = System.Security.Principal.WindowsIdentity.GetCurrent().User.ToString();
    //Console.WriteLine(s + ";" + t);
    searchUser(t);
}
}
```