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web.config

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
```

Note: As an alternative to hand editing this file you can use the web admin tool to configure settings for your application. Use the Website->ASP.NET Configuration option in Visual Studio.

A full list of settings and comments can be found in machine.config.comments usually located in \Windows\Microsoft.Net\Framework\v2.x\Config

```
-->
<configuration>
  <appSettings />
  <connectionStrings>
    <add name="MyADConnection" connectionString="LDAP://DCServer1/dc=domain,dc=com" />
  </connectionStrings>
  <system.web>
    <globalization culture="" uiCulture="auto" />
    <!--
```

Set compilation debug="true" to insert debugging symbols into the compiled page. Because this affects performance, set this value to true only during development.

Visual Basic options: Set strict="true" to disallow all data type conversions where data loss can occur. Set explicit="true" to force declaration of all variables.

```
-->
  <compilation debug="true" strict="false" explicit="true" targetFramework="4.0">
    <assemblies>
      <add assembly="System.DirectoryServices, Version=4.0.0.0, Culture=neutral, PublicKeyToken=*****" />
      <add assembly="System.Management, Version=4.0.0.0, Culture=neutral, PublicKeyToken=*****" /></assemblies></compilation>
  <pages controlRenderingCompatibilityVersion="3.5" clientIDMode="AutoID">
    <namespaces>
      <clear />
      <add namespace="System" />
      <add namespace="System.Collections" />
      <add namespace="System.Collections.Specialized" />
      <add namespace="System.Configuration" />
      <add namespace="System.Text" />
      <add namespace="System.Text.RegularExpressions" />
      <add namespace="System.Web" />
      <add namespace="System.Web.Caching" />
      <add namespace="System.Web.SessionState" />
      <add namespace="System.Web.Security" />
      <add namespace="System.Web.Profile" />
      <add namespace="System.Web.UI" />
      <add namespace="System.Web.UI.WebControls" />
      <add namespace="System.Web.UI.WebControls.WebParts" />
      <add namespace="System.Web.UI.HtmlControls" />
    </namespaces>
  </pages>
  <!--
  The <authentication> section enables configuration of the security authentication mode used by ASP.NET to identify an incoming user.
  -->
```

```
<authentication mode="Windows" />
<!--
```

The <customErrors> section enables configuration of what to do if/when an unhandled error occurs during the execution of a request. Specifically, it enables developers to configure html error pages to be displayed in place of a error stack trace.

```
    <customErrors mode="RemoteOnly" defaultRedirect="GenericErrorPage.htm">
        <error statusCode="403" redirect="NoAccess.htm" />
        <error statusCode="404" redirect="FileNotFound.htm" />
    </customErrors>
-->
</system.web>
</system.webServer>

</system.webServer>
</configuration>
```

ProjectStyles.css

```
html
{
    overflow-y: scroll;
}

body
{
    margin: 2px;
    padding: 0px;
    font-family: Calibri, Verdana, Arial;
    font-size: 10pt;
}

#Wrapper
{
    margin: auto;
    padding: 0px;
    width: auto;
}

/* Заголовок */
#Header
{
    margin: 2px 0px 0px 0px;
    padding: 10px;
    height: 60px;
    text-align: center;
    background-color: #004C99;
}

#Header .Logo
{
    float: left;
    margin: 0px;
    width: 132px;
    height: 60px;
    background-image: url(Images/MYCOMPANYLogo.gif);
}
```

```
#Header .Localization
{
    float: right;
    margin: 0px;
    width: 160px;
    height: 60px;
    text-align: right;
}

#Header .Title
{
    margin: 10px 0px 0px 0px;
    text-align: center;
    vertical-align: middle;
    font-size: 24pt;
    color: #FFFFFF;
}

#Header .LanguageButton
{
    margin: 0px;
    padding: 0px;
    height: 16px;
    width: 20px;
    color: #3f52b8;
    background-color: #f6f8ff;
    border: 0px;
    text-align: center;
    font-family: Verdana;
    font-size: 8pt;
    cursor: hand;
}

/* Меню */
#Menu
{
    background-color: White;
    color: #333333;
    margin: 0px 0px 3px 0px;
    padding: 0px;
    text-align: left;
}
```

```
#Menu ul
{
    margin: 0px 0px 7px 0px;
}

#Menu ul li
{
    display: inline;
    margin: 0px 1px;
    padding: 3px 2px;
    color: #fff;
    background-color: #004C99;
    font-size: 0.8em;
    font-weight: bold;
    cursor: hand;
}

#Menu ul li a
{
    text-decoration: none;
    color: #fff;
}

/*   Содержание   */
#Content
{
    border-style: solid;
    border-width: 1px;
    background-color: White;
    color: #333333;
    border-color: #C0C0C0;
    padding: 10px;
    text-align: justify;
    min-height: 100px;
}

#Content .WorkZone
{
    width: auto;
    padding: 10px;
    min-height: 350px;
    background-color: #004c99;
    color: White;
}
```

```
#Content h1
{
    margin: 20px 0px 5px 0px;
    padding: 0px 0px;
    background-color: #F0F0F0;
    text-align: center;
    font-size: 1.4em;
    font-weight: bold;
}

#Content h2
{
    margin: 15px 0px 5px 0px;
    padding: 0px 0px;
    text-align: center;
    font-size: 1.2em;
    font-weight: bold;
}

#Content h3
{
    margin: 10px 0px 5px 0px;
    padding: 0px 0px;
    text-align: center;
    font-size: 1em;
    font-weight: bold;
}

#Content p
{
    margin: 5px 0px;
    padding: 0px;
    text-indent: 25px;
    text-align: justify;
}

#Content .VisibleTable
{
    margin: 2px;
    border: solid 1px #000000;
    border-collapse: collapse;
    border-color: #666666;
}
```

```
#Content .VisibleTable caption
{
    margin: 0px;
    padding: 1px 2px;
    border-collapse: collapse;
    background-color: #666;
    color: #FFF;
    text-align: center;
}
```

```
#Content .VisibleTable th
{
    margin: 1px 3px;
    padding: 1px 2px;
    border: solid 1px #000000;
    border-collapse: collapse;
    border-color: #666666;
    text-align: center;
}
```

```
#Content .VisibleTable tr
{
    margin: 1px 3px;
    padding: 1px 2px;
    border: solid 1px #000000;
    border-collapse: collapse;
    border-color: #666666;
}
```

```
#Content .VisibleTable td
{
    margin: 1px 5px;
    padding: 1px 5px;
    border: solid 1px #000000;
    border-collapse: collapse;
    border-color: #666666;
    text-align: left;
}
```

```
#Content .Notice
{
    font-style: italic;
    font-size: 0.9em;
}
```

```
#Content .LinkMouseOver
{
    font-family: Tahoma;
    color: Red;
    text-decoration: underline;
    cursor: hand;
    text-align: left;
}
```

```
#Content .PictureBlock
{
    margin: 2px;
    border: none 0px #000000;
    text-align: center;
    vertical-align: bottom;
}
```

```
#Content .PictureName
{
    border-top: dashed 1px #C0C0C0;
    margin-bottom: 10px;
}
```

```
#Content .TextBox
{
    margin: 0px;
    padding: 2px 4px 0px 4px;
    height: 17px;
    background-color: #fff;
    color: #004c99;
    border: 1px solid #004c99;
    font-weight: normal;
    font-size: 0.9em;
}
```

```
#Content .DropDownList
{
    margin: 2px 0px;
    padding: 2px 0px;
    height: 22px;
    background-color: #fff;
    color: #004c99;
    border: 1px solid #004c99;
    font-weight: normal;
    font-size: 0.9em;
}
```

```

#Content .Button
{
    margin: 1px;
    padding: 0px;
    width: 80px;
    height: 19px;
    background-color: #fff;
    color: #004c99;
    cursor: hand;
    border: 1px solid #004c99;
    font-weight: normal;
    text-align: center;
    font-size: 0.9em;
}

#Content .ButtonZone
{
    text-align: right;
}

#Content .ClearFloat
{
    clear: both;
}

/* Ногги */
#Footer
{
    margin-top: 3px;
    padding: 10px;
    height: 55px;
    text-align: center;
    background-color: #004C99;
}

#Footer .ButtonsPlace
{
    height: 55px;
    text-align: right;
}

```

```

#Footer .Button
{
    margin: 0px;
    padding: 0px;
    height: 19px;
    width: 80px;
    border-style: none;
    color: #004c99;
    background-color: #f6f8ff;
    font-size: 0.85em;
    cursor: hand;
}

#Footer .InfoPanel
{
    padding: 25px;
    min-height: 50px;
    min-width: 250px;
    max-width: 350px;
    text-align: center;
    color: #fff;
    background-color: #004C99;
    border: 1px solid white;
}

@media print
{
    #Header
    {
        display: none;
    }

    #Menu
    {
        display: none;
    }

    #Content
    {
        border: 0px none #fff;
        color: #000;
        padding: 0px;
        text-align: justify;
    }
}

```

```
#Footer
{
  display: none;
}
}
```


ProjectMasterPage.master

```
<%@ Master Language="VB" CodeFile="ProjectMasterPage.master.vb" Inherits="MYCOMPANYMasterPage" %>

<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" >
<head runat="server">
    <link href="ProjectStyles.css" rel="stylesheet" type="text/css" />
    <meta http-equiv="Content-Type" content="UTF-8" />
    <asp:ContentPlaceHolder id="Title_ContentPlaceHolder" runat="server">
    </asp:ContentPlaceHolder>
    <script type="text/javascript" src="<# ResolveClientUrl("~/jQuery.js") %>"></script>
    <link rel="stylesheet" type="text/css" href="<# ResolveClientUrl("~/HighSlide/highslide.css") %>" />
    <link rel="shortcut icon" href="<# ResolveClientUrl("~/Images/favicon.ico") %>" />
</head>
<body style="font-family:Tahoma; text-align: center;">
    <form id="Main_Form" runat="server">
    <div id="Wrapper">

        <ajaxToolkit:ToolkitScriptManager ID="Main_ScriptManager" runat="Server" EnablePartialRendering="true" />

        <asp:Panel ID="Header_Panel" runat="server"><div id="Header">
            <div class="Logo">
                <a href="..">&nbsp;</a>
            </div>
            <div class="Localization">
                <asp:ContentPlaceHolder id="Language_ContentPlaceHolder" runat="server">
                    <!--Language boxes-->
                </asp:ContentPlaceHolder>
            </div>
            <div class="Title">
                <asp:ContentPlaceHolder id="ServiceName_ContentPlaceHolder" runat="server">
                    Servers Inventory
                </asp:ContentPlaceHolder>
            </div>
        </div></asp:Panel>

        <asp:Panel ID="Menu_Panel" runat="server"><div id="Menu">

        </div></asp:Panel>

        <div id="Content">
            <asp:ContentPlaceHolder id="PageContent_ContentPlaceHolder" runat="server">
                Page Content
            </asp:ContentPlaceHolder>
        </div>
    </div>
    </form>
</body>
</html>
```

```
<asp:Panel ID="Footer_Panel" runat="server"><div id="Footer">
  <div class="ButtonsPlace">
    <asp:ContentPlaceHolder id="Footer_ContentPlaceHolder" runat="server">
      &nbsp;
    </asp:ContentPlaceHolder>
  </div>
</div></asp:Panel>
</div>
</form>
</body>
</html>
```

ProjectMasterPage.master.vb

```
Imports System.Xml
```

```
Partial Class MYCOMPANYMasterPage
```

```
    Inherits System.Web.UI.MasterPage
```

```
    Private mWebPageClass As New System.Web.UI.Page
```

```
    ' Процедуры при инициализации страницы
```

```
    Protected Sub Page_Init(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Init
```

```
End Sub
```

```
    ' Процедуры при загрузке страницы
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
```

```
        ' Отключение кеширования страницы
```

```
        Response.AppendHeader("Last-Modified", "-1")
```

```
        Response.AppendHeader("Expires", "-1")
```

```
        Response.AppendHeader("Cache-Control", "no-store, no-cache, must-revalidate")
```

```
        Response.AppendHeader("Cache-Control", "post-check=0, pre-check=0")
```

```
        Response.AddHeader("Pragma", "no-cache")
```

```
        Page.Header.DataBind()
```

```
End Sub
```

```
    ' Обработка переменных сессии
```

```
#Region "SessionVariables 1.0"
```

```
    ' Сохранение переменных сессии пользователя в память сервера (сервис свойств пользователя)
```

```
    Public Sub FillUserAccountProperties(ByVal UserAccount As String)
```

```
        Dim mCurrentUserProperties As UserProperties
```

```
        mCurrentUserProperties = GetUserAccountProperties(UserAccount, Session("DomainDistinguishedName"), Session("DomainController"))
```

```
        Session.Add("UserAccount", mCurrentUserProperties.Account)
```

```
        Session.Add("UserDistinguishedName", mCurrentUserProperties.DistinguishedName)
```

```
        Session.Add("UserName", mCurrentUserProperties.Name)
```

```
        Session.Add("UserDisplayName", mCurrentUserProperties.DisplayName)
```

```
        Session.Add("UserMail", mCurrentUserProperties.Mail)
```

```
        Session.Add("UserTitle", mCurrentUserProperties.Title)
```

```
        Session.Add("UserDepartment", mCurrentUserProperties.Department)
```

```
        Session.Add("UserCompany", mCurrentUserProperties.Company)
```

```
        Session.Add("UserCity", mCurrentUserProperties.City)
```

```
        Session.Add("UserCountry", mCurrentUserProperties.Country)
```

```
        Session.Add("UserDescription", mCurrentUserProperties.Description)
```

```
        Session.Add("UserTelephoneNumber", mCurrentUserProperties.TelephoneNumber)
```

```
        Session.Add("UserMobilePhone", mCurrentUserProperties.MobilePhone)
```

```
        Session.Add("UserOtherTelephone", mCurrentUserProperties.OtherTelephone)
```

```
        Session.Add("UserHideFromAddressLists", mCurrentUserProperties.HideFromAddressLists)
```

```
        Session.Add("UserEnabled", mCurrentUserProperties.Enabled)
```

```
        Session.Add("UserPasswordExpired", mCurrentUserProperties.PasswordExpired)
```

```
        Session.Add("UserPasswordNeverExpires", mCurrentUserProperties.PasswordNeverExpires)
```

```

Session.Add("UserCanNotChangePassword", mCurrentUserProperties.CanNotChangePassword)
Session.Add("UserLocked", mCurrentUserProperties.Locked)
If mCurrentUserProperties.PasswordLastSet.Ticks = 0 Then
    Session.Add("UserPasswordLastSet", Nothing)
Else
    Session.Add("UserPasswordLastSet", mCurrentUserProperties.PasswordLastSet)
End If
If mCurrentUserProperties.AccountExpires.Ticks = 0 Then
    Session.Add("UserAccountExpires", Nothing)
Else
    Session.Add("UserAccountExpires", mCurrentUserProperties.AccountExpires)
End If
End Sub

' Сохранение переменных сессии пользователя в память сервера (сервис разблокировки)
Public Sub FillSSUserAccountProperties(ByVal UserAccount As String)
    Dim mCurrentUserProperties As UserProperties
    mCurrentUserProperties = GetUserAccountProperties(UserAccount, Session("DomainDistinguishedName"), Session("DomainController"))
    Session.Add("SSUserAccount", mCurrentUserProperties.Account)
    Session.Add("SSUserDistinguishedName", mCurrentUserProperties.DistinguishedName)
    Session.Add("SSUserDisplayName", mCurrentUserProperties.DisplayName)
    Session.Add("SSUserMail", mCurrentUserProperties.Mail)
    Session.Add("SSUserEnabled", mCurrentUserProperties.Enabled)
    Session.Add("SSUserPasswordExpired", mCurrentUserProperties.PasswordExpired)
    Session.Add("SSUserPasswordNeverExpires", mCurrentUserProperties.PasswordNeverExpires)
    Session.Add("SSUserCanNotChangePassword", mCurrentUserProperties.CanNotChangePassword)
    Session.Add("SSUserLocked", mCurrentUserProperties.Locked)
    If mCurrentUserProperties.PasswordLastSet.Ticks = 0 Then
        Session.Add("SSUserPasswordLastSet", Nothing)
    Else
        Session.Add("SSUserPasswordLastSet", mCurrentUserProperties.PasswordLastSet)
    End If
    If mCurrentUserProperties.AccountExpires.Ticks = 0 Then
        Session.Add("SSUserAccountExpires", Nothing)
    Else
        Session.Add("SSUserAccountExpires", mCurrentUserProperties.AccountExpires)
    End If
End Sub

' Удаление переменных сессии пользователя из памяти сервера (сервис свойств пользователя и сервис разблокировки)
Public Sub ClearSessionVariables()

    Session.Remove("UserAccount")
    Session.Remove("UserDistinguishedName")
    Session.Remove("UserName")
    Session.Remove("UserDisplayName")
    Session.Remove("UserMail")
    Session.Remove("UserTitle")

```

```
Session.Remove("UserDepartment")
Session.Remove("UserCompany")
Session.Remove("UserCity")
Session.Remove("UserCountry")
Session.Remove("UserDescription")
Session.Remove("UserTelephoneNumber")
Session.Remove("UserMobilePhone")
Session.Remove("UserOtherTelephone")
Session.Remove("UserHideFromAddressLists")
Session.Remove("UserEnabled")
Session.Remove("UserPasswordExpired")
Session.Remove("UserPasswordNeverExpires")
Session.Remove("UserCanNotChangePassword")
Session.Remove("UserLocked")
Session.Remove("UserPasswordLastSet")
Session.Remove("UserAccountExpires")
```

```
Session.Remove("SSUserAccount")
Session.Remove("SSUserDistinguishedName")
Session.Remove("SSUserDisplayName")
Session.Remove("SSUserMail")
Session.Remove("SSUserEnabled")
Session.Remove("SSUserPasswordExpired")
Session.Remove("SSUserPasswordNeverExpires")
Session.Remove("SSUserCanNotChangePassword")
Session.Remove("SSUserLocked")
Session.Remove("SSUserPasswordLastSet")
Session.Remove("SSUserAccountExpires")
Session.Remove("SSDomainController")
Session.Remove("SSQuestion1")
Session.Remove("SSQuestion2")
Session.Remove("SSAnswer1")
Session.Remove("SSAnswer2")
Session.Remove("SSIPDetection")
```

```
End Sub
```

```
#End Region
```

```
' Чтение XML-файла в таблицу в памяти сервера
```

```
#Region "ReadXmlFile 1.1"
```

```
' Считывание одноуровневого XML-файла
```

```
Private Function ReadXmlFile(ByVal XMLFileName As String) As Data.DataTable
```

```
Dim TempTable As Data.DataTable = Nothing
```

```
' Проверка, что файл существует
```

```
If IO.File.Exists(XMLFileName) Then
```

```
Dim mDataSet As New Data.DataSet
```

```
' Открытие и считывание XML-файла
```

```
Dim mStreamRead As New System.IO.FileStream(XMLFileName, System.IO.FileMode.Open, IO.FileAccess.Read)
```

```

Try
    mDataSet.ReadXml(mStreamRead)
Catch ex As Exception

End Try
' Заккрытие XML-файла
mStreamRead.Close()
' Обработка считанных данных
For Each CurrentTable As Data.DataTable In mDataSet.Tables
    TempTable = New Data.DataTable(CurrentTable.TableName)
    For Each CurrentColumn As Data.DataColumn In CurrentTable.Columns
        Dim TempTable_Column As New Data.DataColumn(CurrentColumn.Caption, System.Type.GetType("System.String"))
        TempTable.Columns.Add(TempTable_Column)
    Next CurrentColumn
    For Each CurrentRow As Data.DataRow In CurrentTable.Rows
        Dim TempTable_Row As Data.DataRow = TempTable.NewRow
        For Each CurrentColumn As Data.DataColumn In CurrentTable.Columns
            TempTable_Row.Item(CurrentColumn.Caption) = CurrentRow(CurrentColumn).ToString
        Next CurrentColumn
        TempTable.Rows.Add(TempTable_Row)
    Next CurrentRow
Next CurrentTable
End If
Return TempTable
End Function

' Считывание многоуровневого XML-файла с выбором таблицы
Private Function ReadXmlFile(ByVal XMLFileName As String, ByVal TableName As String) As Data.DataTable
    Dim TempTable As Data.DataTable = Nothing
    ' Проверка, что файл существует
    If IO.File.Exists(XMLFileName) Then
        Dim mDataSet As New Data.DataSet
        ' Открытие и считывание XML-файла
        Dim mStreamRead As New System.IO.FileStream(XMLFileName, System.IO.FileMode.Open, IO.FileAccess.Read)
        Try
            mDataSet.ReadXml(mStreamRead)
        Catch ex As Exception

        End Try
        ' Заккрытие XML-файла
        mStreamRead.Close()
        ' Обработка считанных данных
        For Each CurrentTable As Data.DataTable In mDataSet.Tables
            If CurrentTable.TableName = TableName Then
                TempTable = New Data.DataTable(CurrentTable.TableName)
                For Each CurrentColumn As Data.DataColumn In CurrentTable.Columns
                    Dim TempTable_Column As New Data.DataColumn(CurrentColumn.Caption, System.Type.GetType("System.String"))
                    TempTable.Columns.Add(TempTable_Column)
                
```

```

        Next CurrentColumn
        For Each CurrentRow As Data.DataRow In CurrentTable.Rows
            Dim TempTable_Row As Data.DataRow = TempTable.NewRow
            For Each CurrentColumn As Data.DataColumn In CurrentTable.Columns
                TempTable_Row.Item(CurrentColumn.Caption) = CurrentRow(CurrentColumn).ToString
            Next CurrentColumn
            TempTable.Rows.Add(TempTable_Row)
        Next CurrentRow
    End If
Next CurrentTable
End If
Return TempTable
End Function

```

#End Region

```

' Получение свойств учетной записи пользователя
#Region "GetUserProperties 1.0"

```

```

' Класс свойств учетной записи пользователя
Public Class UserProperties

    Private mAccount As String
    Private mDistinguishedName As String
    Private mName As String
    Private mDisplayName As String
    Private mMail As String
    Private mTitle As String
    Private mDepartment As String
    Private mCompany As String
    Private mCity As String
    Private mCountry As String
    Private mDescription As String
    Private mTelephoneNumber As String
    Private mMobilePhone As String
    Private mOtherTelephone As String
    Private mHideFromAddressLists As Boolean
    Private mEnabled As Boolean
    Private mPasswordExpired As Boolean
    Private mPasswordNeverExpires As Boolean
    Private mCanNotChangePassword As Boolean
    Private mLocked As Boolean
    Private mPasswordLastSet As DateTime
    Private mAccountExpires As DateTime

    Sub New(ByVal Account As String)
        mAccount = UCase(Account)
    End Sub

```

```
Public ReadOnly Property Account As String
    Get
        Return mAccount
    End Get
End Property
```

```
Public Property DistinguishedName As String
    Get
        Return mDistinguishedName
    End Get
    Set(ByVal value As String)
        mDistinguishedName = value
    End Set
End Property
```

```
Public Property Name As String
    Get
        Return mName
    End Get
    Set(ByVal value As String)
        mName = value
    End Set
End Property
```

```
Public Property DisplayName As String
    Get
        Return mDisplayName
    End Get
    Set(ByVal value As String)
        mDisplayName = value
    End Set
End Property
```

```
Public Property Mail As String
    Get
        Return mMail
    End Get
    Set(ByVal value As String)
        mMail = value
    End Set
End Property
```

```
Public Property Title As String
    Get
        Return mTitle
    End Get
    Set(ByVal value As String)
```



```
        mTitle = value
    End Set
End Property

Public Property Department As String
    Get
        Return mDepartment
    End Get
    Set(ByVal value As String)
        mDepartment = value
    End Set
End Property

Public Property Company As String
    Get
        Return mCompany
    End Get
    Set(ByVal value As String)
        mCompany = value
    End Set
End Property

Public Property City As String
    Get
        Return mCity
    End Get
    Set(ByVal value As String)
        mCity = value
    End Set
End Property

Public Property Country As String
    Get
        Return mCountry
    End Get
    Set(ByVal value As String)
        mCountry = value
    End Set
End Property

Public Property Description As String
    Get
        Return mDescription
    End Get
    Set(ByVal value As String)
        mDescription = value
    End Set
End Property
```

```
Public Property TelephoneNumber As String
    Get
        Return mTelephoneNumber
    End Get
    Set(ByVal value As String)
        mTelephoneNumber = value
    End Set
End Property

Public Property MobilePhone As String
    Get
        Return mMobilePhone
    End Get
    Set(ByVal value As String)
        mMobilePhone = value
    End Set
End Property

Public Property OtherTelephone As String
    Get
        Return mOtherTelephone
    End Get
    Set(ByVal value As String)
        mOtherTelephone = value
    End Set
End Property

Public Property HideFromAddressLists As Boolean
    Get
        Return mHideFromAddressLists
    End Get
    Set(ByVal value As Boolean)
        mHideFromAddressLists = value
    End Set
End Property

Public Property Enabled As Boolean
    Get
        Return mEnabled
    End Get
    Set(ByVal value As Boolean)
        mEnabled = value
    End Set
End Property

Public Property PasswordExpired As Boolean
    Get
```

```
        Return mPasswordExpired
    End Get
    Set(ByVal value As Boolean)
        mPasswordExpired = value
    End Set
End Property

Public Property PasswordNeverExpires As Boolean
    Get
        Return mPasswordNeverExpires
    End Get
    Set(ByVal value As Boolean)
        mPasswordNeverExpires = value
    End Set
End Property

Public Property CanNotChangePassword As Boolean
    Get
        Return mCanNotChangePassword
    End Get
    Set(ByVal value As Boolean)
        mCanNotChangePassword = value
    End Set
End Property

Public Property Locked As Boolean
    Get
        Return mLocked
    End Get
    Set(ByVal value As Boolean)
        mLocked = value
    End Set
End Property

Public Property PasswordLastSet As DateTime
    Get
        Return mPasswordLastSet
    End Get
    Set(ByVal value As DateTime)
        mPasswordLastSet = value
    End Set
End Property

Public Property AccountExpires As DateTime
    Get
        Return mAccountExpires
    End Get
    Set(ByVal value As DateTime)
```

```
        mAccountExpires = value
    End Set
End Property
```

```
End Class
```

```
' Запрос свойств учетной записи из Active Directory
Public Function GetUserAccountProperties(ByVal UserAccount As String, ByVal LDAPSearchPath As String, Optional ByVal DomainController As String =
"" ) As UserProperties
    ' Объявление переменных
    Dim mResult As UserProperties
    Dim mSearchPath As String
    Dim mActiveDirectoryEntry As DirectoryServices.DirectoryEntry
    Dim mActiveDirectorySearcher As DirectoryServices.DirectorySearcher
    Dim mSearchResult As DirectoryServices.SearchResult
    ' Начальные значения переменных
    mResult = Nothing
    If DomainController = "" Then
        mSearchPath = "LDAP://" & LDAPSearchPath
    Else
        mSearchPath = "LDAP://" & DomainController & "/" & LDAPSearchPath
    End If
    ' Подключение к Active Directory для поиска distinguishedName учетной записи
    mActiveDirectoryEntry = New DirectoryServices.DirectoryEntry(mSearchPath)
    mActiveDirectorySearcher = New DirectoryServices.DirectorySearcher(mActiveDirectoryEntry)
    mActiveDirectorySearcher.Filter = "&(objectClass=user)(sAMAccountName=" & UserAccount & ")"
    mActiveDirectorySearcher.SearchScope = DirectoryServices.SearchScope.Subtree
    mActiveDirectorySearcher.PropertiesToLoad.Add("sAMAccountName")
    mActiveDirectorySearcher.PropertiesToLoad.Add("distinguishedName")
    mSearchResult = mActiveDirectorySearcher.FindOne
    If Not (mSearchResult Is Nothing) Then
        mResult = New UserProperties(CType(mSearchResult.Properties("sAMAccountName")(0), String))
        mResult.DistinguishedName = CType(mSearchResult.Properties("distinguishedName")(0), String)
        If DomainController = "" Then
            mSearchPath = "LDAP://" & Replace(mResult.DistinguishedName, "/", "\")
        Else
            mSearchPath = "LDAP://" & DomainController & "/" & Replace(mResult.DistinguishedName, "/", "\")
        End If
        ' Подключение к учетной записи по её distinguishedName
        mActiveDirectoryEntry = New DirectoryServices.DirectoryEntry(mSearchPath)
        ' Получение свойств учетной записи
        mResult.Name = mActiveDirectoryEntry.Properties.Item("name").Value
        mResult.DisplayName = mActiveDirectoryEntry.Properties.Item("displayName").Value
        mResult.Mail = mActiveDirectoryEntry.Properties.Item("mail").Value
        mResult.Title = mActiveDirectoryEntry.Properties.Item("title").Value
        mResult.Department = mActiveDirectoryEntry.Properties.Item("department").Value
        mResult.Company = mActiveDirectoryEntry.Properties.Item("company").Value
        mResult.City = mActiveDirectoryEntry.Properties.Item("l").Value
    End If
End Function
```

```

mResult.Country = mActiveDirectoryEntry.Properties.Item("co").Value
mResult.Description = mActiveDirectoryEntry.Properties.Item("description").Value
mResult.TelephoneNumber = mActiveDirectoryEntry.Properties.Item("telephoneNumber").Value
mResult.MobilePhone = mActiveDirectoryEntry.Properties.Item("mobile").Value
If Not (mActiveDirectoryEntry.Properties.Item("otherTelephone").Value Is Nothing) Then
    If mActiveDirectoryEntry.Properties.Item("otherTelephone").Value.ToString = "System.Object[]" Then
        ' ?????????????????? Цикл ??????????????????
        mResult.OtherTelephone = mResult.OtherTelephone + ";" + mActiveDirectoryEntry.Properties.Item("otherTelephone").Value.ToString
    Else
        mResult.OtherTelephone = mActiveDirectoryEntry.Properties.Item("otherTelephone").Value.ToString
    End If
End If
mResult.HideFromAddressLists = mActiveDirectoryEntry.Properties.Item("msExchHideFromAddressLists").Value
If (mActiveDirectoryEntry.Properties.Item("userAccountControl").Value And &H2) Then
    mResult.Enabled = True
Else
    mResult.Enabled = False
End If
If (mActiveDirectoryEntry.Properties.Item("userAccountControl").Value And &H10000) Then
    mResult.PasswordNeverExpires = True
Else
    mResult.PasswordNeverExpires = False
End If
If (mActiveDirectoryEntry.Properties.Item("userAccountControl").Value And &H800000) Then
    mResult.PasswordExpired = True
Else
    mResult.PasswordExpired = False
End If
' Получение дополнительных свойств учетной записи
mActiveDirectorySearcher = New DirectoryServices.DirectorySearcher(mActiveDirectoryEntry)
mActiveDirectorySearcher.PropertiesToLoad.Add("lastLogoff")
mActiveDirectorySearcher.PropertiesToLoad.Add("lastLogon")
mActiveDirectorySearcher.PropertiesToLoad.Add("pwdLastSet")
mActiveDirectorySearcher.PropertiesToLoad.Add("accountExpires")
mActiveDirectorySearcher.PropertiesToLoad.Add("showInAddressBook")
mActiveDirectorySearcher.PropertiesToLoad.Add("createdTimeStamp")
mActiveDirectorySearcher.PropertiesToLoad.Add("modifyTimeStamp")
mSearchResult = mActiveDirectorySearcher.FindOne
' Присвоение переменным значений, взятых из объекта
If mSearchResult.Properties.Item("pwdLastSet")(0) = 0 Then
    mResult.PasswordLastSet = Nothing
Else
    Try
        If (mSearchResult.Properties.Item("pwdLastSet")(0) + 50491123200000000) > DateTime.MaxValue.Ticks Or
(mSearchResult.Properties.Item("pwdLastSet")(0) + 50491123200000000) < DateTime.MinValue.Ticks Then
            mResult.PasswordLastSet = Nothing
        Else
            mResult.PasswordLastSet = New DateTime(mSearchResult.Properties.Item("pwdLastSet")(0) + 50491123200000000)
        End If
    Catch
    End Try
End If

```

```

        End If
    Catch ex As Exception
        mResult.PasswordLastSet = Nothing
    End Try
End If
If mSearchResult.Properties.Item("accountExpires")(0) = 0 Then
    mResult.AccountExpires = Nothing
Else
    Try
        If (mSearchResult.Properties.Item("accountExpires")(0) + 50491123200000000) > DateTime.MaxValue.Ticks Or
(mSearchResult.Properties.Item("accountExpires")(0) + 50491123200000000) < DateTime.MinValue.Ticks Then
            mResult.AccountExpires = Nothing
        Else
            mResult.AccountExpires = New DateTime(mSearchResult.Properties.Item("accountExpires")(0) + 50491123200000000)
        End If
    Catch ex As Exception
        mResult.AccountExpires = Nothing
    End Try
End If
mResult.Locked = mActiveDirectoryEntry.InvokeGet("IsAccountLocked")
For Each CurrentAce As Object In mActiveDirectoryEntry.InvokeGet("nTSecurityDescriptor").DiscretionaryAcl
    If ((CurrentAce.AceType = &H6) And (LCase(CurrentAce.ObjectType) = "{ab721a53-1e2f-11d0-9819-00aa0040529b}")) Then
        mResult.CanNotChangePassword = True
    End If
Next
Else
    mResult = Nothing
End If
' Отключение от Active Directory
mSearchResult = Nothing
mActiveDirectorySearcher.Dispose()
mActiveDirectoryEntry.Close()
' Возврат результата
Return mResult
End Function

#End Region

' Получение членов группы
#Region "GetUsersOfGroup 1.0"

' Получение типа объекта
Private Function GetClassTypeOfObject(ByVal DistinguishedName As String, Optional ByVal DomainController As String = "") As String
    ' Объявление переменных
    Dim mResult As String
    Dim mSearchPath As String
    Dim mActiveDirectoryEntry As DirectoryServices.DirectoryEntry
    mResult = Nothing

```

```

If DomainController = "" Then
    mSearchPath = "LDAP://" & Replace(DistinguishedName, "/", "\")
Else
    mSearchPath = "LDAP://" & DomainController & "/" & Replace(DistinguishedName, "/", "\")
End If
' Подключение к Active Directory
mActiveDirectoryEntry = New DirectoryServices.DirectoryEntry(mSearchPath)
mResult = CType(mActiveDirectoryEntry.Properties.Item("objectClass")(mActiveDirectoryEntry.Properties.Item("objectClass").Count - 1), String)
' Отключение от Active Directory
mActiveDirectoryEntry.Close()
' Возврат результата
Return mResult
End Function

' Получение членов группы
Public Function GetUsersOfGroup(ByVal DistinguishedName As String, Optional ByVal LevelOfRecursion As Integer = 0, Optional ByVal DomainController
As String = "") As String()
    ' Объявление переменных
    Dim mResult() As String
    Dim mCounter As Integer
    Dim mMembers() As String
    Dim mSearchPath As String
    Dim mActiveDirectoryEntry As DirectoryServices.DirectoryEntry
    ' Начальные значения переменных
    mResult = Nothing
    mCounter = 0
    If DomainController = "" Then
        mSearchPath = "LDAP://" & Replace(DistinguishedName, "/", "\")
    Else
        mSearchPath = "LDAP://" & DomainController & "/" & Replace(DistinguishedName, "/", "\")
    End If
    mMembers = Nothing
    ' Подключение к Active Directory
    mActiveDirectoryEntry = New DirectoryServices.DirectoryEntry(mSearchPath)
    For Each CurerntMember As String In mActiveDirectoryEntry.Properties.Item("member")
        ReDim Preserve mMembers(mCounter)
        mMembers(mCounter) = CurerntMember
        mCounter = mCounter + 1
    Next
    ' Отключение от Active Directory
    mActiveDirectoryEntry.Close()
    If Not (mMembers Is Nothing) Then
        ' Обработка членов группы
        mCounter = 0
        For Each mMember As String In mMembers
            Dim CurrentObjectType As String = Me.GetClassTypeOfObject(mMember)
            If Not (CurrentObjectType Is Nothing) Then
                Select Case CurrentObjectType.ToLower

```

```

Case "user"
    ' Проверка на повторяющиеся имена
    If Me.BelongToArray(mMember, mResult) = False Then
        ' Заполнение массива пользователями группы
        ReDim Preserve mResult(mCounter)
        mResult(mCounter) = mMember
        mCounter = mCounter + 1
    End If
Case "group"
    ' Рекурсивный вызов для раскрытия вложенных групп
    If LevelOfRecursion > 0 Then
        Dim CurrentMembers() As String = Me.GetUsersOfGroup(mMember, LevelOfRecursion - 1)
        If Not (CurrentMembers Is Nothing) Then
            For Each CurrentMember As String In CurrentMembers
                ' Проверка на повторяющиеся имена
                If Me.BelongToArray(CurrentMember, mResult) = False Then
                    ' Заполнение массива пользователями группы
                    ReDim Preserve mResult(mCounter)
                    mResult(mCounter) = CurrentMember
                    mCounter = mCounter + 1
                End If
            Next
        End If
    Else
        ' Заполнение массива пользователями группы
        ReDim Preserve mResult(mCounter)
        mResult(mCounter) = mMember
        mCounter = mCounter + 1
    End If
End Select
End If
Next
' Сортировка членов группы
Me.SortArray(mResult)
End If
' Возврат результата
Return mResult
End Function
#End Region

' Установка пароля учетной записи пользователя
#Region "SetUserPassword 1.0"

Public Function SetUserPassword(ByVal DistinguishedName As String, ByVal UserPassword As String, Optional ByVal DomainController As String = "")
As Boolean
    Dim mResult As Boolean = False
    Dim mSearchPath As String
    Dim mActiveDirectoryEntry As DirectoryServices.DirectoryEntry

```



```

If DomainController = "" Then
    mSearchPath = "LDAP://" & Replace(DistinguishedName, "/", "\")
Else
    mSearchPath = "LDAP://" & DomainController & "/" & Replace(DistinguishedName, "/", "\")
End If
' Подключение к Active Directory
mActiveDirectoryEntry = New DirectoryServices.DirectoryEntry(mSearchPath)
Try
    mActiveDirectoryEntry.Invoke("SetPassword", UserPassword)
    mActiveDirectoryEntry.CommitChanges()
    mResult = True
Catch ex As Exception
    mResult = False
End Try
' Закрытие объектов Active Directory
mActiveDirectoryEntry.Close()
' Возврат результата
Return mResult
End Function

```

#End Region

```

' Разблокировка учетной записи пользователя
#Region "UnlockUser 1.0"

```

```

Public Function UnlockUser(ByVal DistinguishedName As String, Optional ByVal DomainController As String = "") As Boolean
    Dim mResult As Boolean = False
    Dim mSearchPath As String
    Dim mActiveDirectoryEntry As DirectoryServices.DirectoryEntry
    If DomainController = "" Then
        mSearchPath = "LDAP://" & Replace(DistinguishedName, "/", "\")
    Else
        mSearchPath = "LDAP://" & DomainController & "/" & Replace(DistinguishedName, "/", "\")
    End If
    ' Подключение к Active Directory
    mActiveDirectoryEntry = New DirectoryServices.DirectoryEntry(mSearchPath)
    Try
        mActiveDirectoryEntry.InvokeSet("IsAccountLocked", False)
        mActiveDirectoryEntry.CommitChanges()
        mResult = True
    Catch ex As Exception
        mResult = False
    End Try
    ' Закрытие объектов Active Directory
    mActiveDirectoryEntry.Close()
    ' Возврат результата
    Return mResult
End Function

```

```
#End Region
```

```
' Проверка принадлежности значения массиву
```

```
#Region "BelongToArray 1.1"
```

```
' Проверка принадлежности значения массиву
```

```
Public Function BelongToArray(ByVal Value As String, ByVal ValuesList As String()) As Boolean
```

```
    If Not (ValuesList Is Nothing) Then
```

```
        For Each sRecord As String In ValuesList
```

```
            If sRecord = Value Then
```

```
                Return True
```

```
            End If
```

```
        Next
```

```
    End If
```

```
    Return False
```

```
End Function
```

```
' Проверка принадлежности набора значений массиву
```

```
Public Function BelongToArray(ByVal Value As String, ByVal ValuesList As String(), ByVal ValueSeparator As String) As Boolean
```

```
    Dim TempValueList() As String
```

```
    If Not (ValuesList Is Nothing) Then
```

```
        TempValueList = Split(Value, ValueSeparator)
```

```
        For Each sRecord As String In ValuesList
```

```
            For Each TempValue As String In TempValueList
```

```
                If sRecord = Trim(TempValue) Then
```

```
                    Return True
```

```
                End If
```

```
            Next
```

```
        Next
```

```
    End If
```

```
    Return False
```

```
End Function
```

```
#End Region
```

```
' Сортировка массива
```

```
#Region "SortArray 1.0"
```

```
Private Function SortArray(ByVal ArrayToSort() As String) As String()
```

```
    Dim aTempArray() As String = ArrayToSort
```

```
    Dim i As Integer = 0
```

```
    Dim j As Integer = 0
```

```
    Dim stringHolder As String = ""
```

```
    If Not (aTempArray Is Nothing) Then
```

```
        For i = (aTempArray.Length - 1) To 0 Step -1
```

```
            For j = 0 To i - 1
```

```
                If aTempArray(j).ToUpper > aTempArray(j + 1).ToUpper Then
```

```
                    stringHolder = aTempArray(j + 1)
```

```

        aTempArray(j + 1) = aTempArray(j)
        aTempArray(j) = stringHolder
    End If
Next
Next
End If
Return aTempArray
End Function
#End Region

' Конвертация Unicode строки в Ascii строку
#Region "ConvertUnicodeToAscii 1.0"
Public Function ConvertUnicodeToAscii(ByVal UnicodeLine As String) As String
    Dim unicodeString As String = UnicodeLine
    ' Create two different encodings.
    Dim ascii As System.Text.Encoding = System.Text.Encoding.ASCII
    Dim [unicode] As System.Text.Encoding = System.Text.Encoding.Unicode
    ' Convert the string into a byte[].
    Dim unicodeBytes As Byte() = [unicode].GetBytes(unicodeString)
    ' Perform the conversion from one encoding to the other.
    Dim asciiBytes As Byte() = System.Text.Encoding.Convert([unicode], ascii, unicodeBytes)
    ' Convert the new byte[] into a char[] and then into a string.
    ' This is a slightly different approach to converting to illustrate
    ' the use of GetCharCount/GetChars.
    Dim asciiChars(ascii.GetCharCount(asciiBytes, 0, asciiBytes.Length) - 1) As Char
    ascii.GetChars(asciiBytes, 0, asciiBytes.Length, asciiChars, 0)
    Dim asciiString As New String(asciiChars)
    Return asciiString
End Function
#End Region

' Подготовка текста для вставки в SQL ячейку
#Region "PrepareSQLValue 1.0"

Function PrepareSQLValue(ByVal Value As String) As String
    Dim mTempValue As String
    mTempValue = ""
    ' Экранирование кавычек
    For Each cuSymbol As Char In Value
        If cuSymbol = "" Then
            mTempValue = mTempValue + "" & cuSymbol
        Else
            mTempValue = mTempValue + cuSymbol
        End If
    Next
    ' Использование Unicode, если есть нелатинские символы
    If InStr(Me.ConvertUnicodeToAscii(mTempValue), "?") > 0 Then
        Return "N'" & mTempValue & ""
    End If
End Function

```

```

Else
    Return "" & mTempValue & ""
End If
End Function

```

#End Region

' Конвертация текста в строку спецсимволов

#Region "HTMLEncode 1.0"

```

Public Function HTMLEncode(ByVal TextToEncode As String) As String
    Dim EncodedText As New Text.StringBuilder
    For Each TextToEncodeSymbol As Char In TextToEncode
        '&#32; - space Space
        '&#48;-&#57; - 0 - 9 Digits (0-9)
        '&#65;-&#90; - A - Z Upper case A-Z
        '&#97;-&#122; - a - z Lower case a-z
        If (AscW(TextToEncodeSymbol) >= 48 And AscW(TextToEncodeSymbol) <= 57) Or _
            (AscW(TextToEncodeSymbol) >= 65 And AscW(TextToEncodeSymbol) <= 90) Or _
            (AscW(TextToEncodeSymbol) >= 97 And AscW(TextToEncodeSymbol) <= 122) Or _
            (AscW(TextToEncodeSymbol) = 32) Then
            EncodedText.Append(TextToEncodeSymbol)
        Else
            EncodedText.Append("&#" & AscW(TextToEncodeSymbol) & ";")
        End If
    Next
    Return EncodedText.ToString
End Function

```

#End Region

' Конвертация строки спецсимволов в текст

#Region "HTMLDecode 1.0"

```

Public Function HTMLDecode(ByVal TextToDecode As String) As String
    Dim DecodedText As String = TextToDecode
    For iCodeCounter As Integer = 9 To 9999
        DecodedText = Replace(DecodedText, "&#" & iCodeCounter & ";", ChrW(iCodeCounter))
    Next
    DecodedText = Replace(DecodedText, "&nbsp;", " ")
    DecodedText = Replace(DecodedText, "&amp;", "&")
    DecodedText = Replace(DecodedText, "&apos;", "'")
    DecodedText = Replace(DecodedText, "&quot;", "\"")
    DecodedText = Replace(DecodedText, "&gt;", ">")
    DecodedText = Replace(DecodedText, "&lt;", "<")
    Return DecodedText
End Function

```

```
#End Region
```

```
' Работа с IP адресами и подсетями
```

```
#Region "IP Addresses processing 1.0"
```

```
' Получение IP адреса клиента
```

```
Public Function GetIPAddress() As Net.IPAddress  
    Dim context As System.Web.HttpContext = System.Web.HttpContext.Current  
    Dim sIPAddress As String = context.Request.ServerVariables("HTTP_X_FORWARDED_FOR")  
    If String.IsNullOrEmpty(sIPAddress) Then  
        Return Net.IPAddress.Parse(context.Request.ServerVariables("REMOTE_ADDR"))  
    Else  
        Dim ipArray As String() = sIPAddress.Split(New [Char]() {"", "c"})  
        Return Net.IPAddress.Parse(ipArray(0))  
    End If  
End Function
```

```
' Конвертирование CIDR в маску подсети
```

```
Public Function MaskFromCidr(ByVal CIDR As Integer) As Long  
    'x = 32 - CIDR  
    'z = (2^x)-1  
    'return z xor 255.255.255.255  
    Const IPbrdcst As Long = 4294967295 '255.255.255.255 FF.FF.FF.FF  
    MaskFromCidr = CLng(2 ^ ((32 - CIDR)) - 1) Xor IPbrdcst  
End Function
```

```
' Подсчет количества хостов в подсети
```

```
Public Function IPnumOfHosts(ByVal IPmsk As Long) As Long 'a mask for the host portion  
    '255.255.255.0 XOR 255.255.255.255 = 255 so 0 to 255 is 256 hosts  
    Const IPbrdcst As Long = 4294967295 '255.255.255.255 FF.FF.FF.FF  
    IPnumOfHosts = IPmsk Xor IPbrdcst 'calculate the number of hosts  
End Function
```

```
' Получение IP адреса подсети по IP адресу хоста и маске подсети
```

```
Public Function IPnetAsNum(ByVal IPnum As Long, ByVal IPmsk As Long) As Long 'extract network from ip address  
    '192.168.2.113 AND 255.255.255.0 = 192.168.2.0  
    IPnetAsNum = IPnum And IPmsk 'calculate THE network number  
End Function
```

```
' Преобразование текстового IP в число
```

```
Public Function IPasNum(ByVal AipAddr As String) As Long 'return -1 on error  
    Dim aIP As Net.IPAddress  
    aIP = Nothing  
    If Not Net.IPAddress.TryParse(AipAddr, aIP) Then 'convert string to IP  
        Return -1 'error  
    Else  
        IPasNum = IPtoNum(aIP) 'convert IP to number  
        If IPasNum = 0 Then
```

```

        Return -1 'error
    End If
End If
End Function

```

```

' Преобразование IP адреса в число
Public Function IPtoNum(ByVal theIP As Net.IPAddress) As Long 'convert IP to number
    Dim nCIDR As Integer
    Dim IPb() As Byte = theIP.GetAddressBytes 'get the octets
    Dim theBit As Integer = 31 'work MSb to LSB
    Dim addr As Long 'accumulator for address
    nCIDR = 0
    For x = 0 To 3 'four octets
        For y = 7 To 0 Step -1 'with 8 bits each - duh
            If (IPb(x) And CByte(2 ^ y)) = CByte(2 ^ y) Then 'if the bit is on
                addr += CLng(2 ^ theBit) 'accumulate
                nCIDR += 1 'count bits
            End If
            theBit -= 1 'decrement bit pos
        Next
    Next
    Return addr
End Function

```

```

' Преобразование числа в IP адрес
Public Function NumToIp(ByVal theIP As Long) As String 'convert number back to IP
    Dim IPb(3) As Byte '4 octets
    Dim theBit As Integer = 31 'work MSb to LSB
    Dim addr As String 'accumulator for address
    addr = Nothing
    For x = 0 To 3 'four octets
        For y = 7 To 0 Step -1 '8 bits
            If (theIP And CLng(2 ^ theBit)) = CLng(2 ^ theBit) Then 'if the bit is on
                IPb(x) += CByte(2 ^ y) 'accumulate
            End If
            theBit -= 1
        Next
        addr &= IPb(x).ToString & "." 'add current octet to string
    Next
    Return addr.TrimEnd("."c)
End Function

```

```

Public Function showBits(ByVal aNum As Long) As String
    Dim strObits As New StringBuilder
    strObits.Append(Convert.ToString(aNum, 2).PadLeft(32, "0"c))
    For ix As Integer = 24 To 0 Step -8
        strObits.Insert(ix, " ")
    Next

```

```
        showBits = strObits.ToString.Trim
    End Function
```

```
#End Region
```

```
' Считывание структуры подсетей из файла
#Region "ReadNetworkStructureXML 1.0"
```

```
Public Class NetworkStructure
```

```
    Private mIPAddress As String
```

```
    Private mCIDR As Integer
```

```
    Private mSite As String
```

```
    Private mDomainController As String
```

```
    Private mDescription As String
```

```
Sub New(ByVal IPAddress As String, ByVal CIDR As Integer)
```

```
    mIPAddress = IPAddress
```

```
    mCIDR = CIDR
```

```
End Sub
```

```
Public ReadOnly Property IPAddress As String
```

```
    Get
```

```
        Return mIPAddress
```

```
    End Get
```

```
End Property
```

```
Public ReadOnly Property CIDR As Integer
```

```
    Get
```

```
        Return mCIDR
```

```
    End Get
```

```
End Property
```

```
Public Property Site As String
```

```
    Get
```

```
        Return mSite
```

```
    End Get
```

```
    Set(ByVal value As String)
```

```
        mSite = value
```

```
    End Set
```

```
End Property
```

```
Public Property DomainController As String
```

```
    Get
```

```
        Return mDomainController
```

```
    End Get
```

```
    Set(ByVal value As String)
```

```
        mDomainController = value
```

```
    End Set
```

```
End Property
```

```
Public Property Description As String
```

```
Get
```

```
Return mDescription
```

```
End Get
```

```
Set(ByVal value As String)
```

```
mDescription = value
```

```
End Set
```

```
End Property
```

```
End Class
```

```
Public Function ReadNetworkStructureXML(ByVal FileName As String) As Generic.List(Of NetworkStructure)
```

```
Dim mXMLFileName As String
```

```
Dim mNetworkStructureTable As Data.DataTable
```

```
Dim mNetworkStructure As New Generic.List(Of NetworkStructure)
```

```
mXMLFileName = Server.MapPath("~/App_Data/" & FileName)
```

```
Try
```

```
mNetworkStructureTable = Me.ReadXmlFile(mXMLFileName, "Subnet")
```

```
For Each currentRow As Data.DataRow In mNetworkStructureTable.Rows
```

```
Dim tempIPAddress() As String
```

```
tempIPAddress = Split(currentRow.Item("IPAddress"), "/")
```

```
mNetworkStructure.Add(New NetworkStructure(tempIPAddress(0), tempIPAddress(1)) With
```

```
{
```

```
.Site = (currentRow.Item("Site")),
```

```
.DomainController = (currentRow.Item("DomainController")),
```

```
.Description = (currentRow.Item("Description"))
```

```
})
```

```
Next
```

```
Return mNetworkStructure
```

```
Catch ex As Exception
```

```
Return Nothing
```

```
End Try
```

```
End Function
```

```
#End Region
```

```
' Считывание настроек веб-приложения
```

```
#Region "ReadConfigurationXML 1.0"
```

```
Public Sub ReadConfigurationXML(ByVal FileName As String)
```

```
Dim mXMLFileName As String
```

```
Dim mConfigurationTable As Data.DataTable
```

```
' Путь к файлу конфигурации
```

```
mXMLFileName = Server.MapPath("~/App_Data/" & FileName)
```

```
' Получение параметров из файла конфигурации
```

```
mConfigurationTable = Me.ReadXmlFile(mXMLFileName, "WebSite")
```

```
' Запоминание параметров
```



```
Session("DomainName") = mConfigurationTable.Rows(0).Item("DomainName")
Session("DomainDistinguishedName") = mConfigurationTable.Rows(0).Item("DomainDistinguishedName")
Session("Pre2000DomainName") = mConfigurationTable.Rows(0).Item("Pre2000DomainName")
Session("DomainController") = mConfigurationTable.Rows(0).Item("DomainController")
Session("SQLServerName") = mConfigurationTable.Rows(0).Item("SQLServerName")
Session("SQLDatabaseName") = mConfigurationTable.Rows(0).Item("SQLDatabaseName")
Session("SQLUserName") = mConfigurationTable.Rows(0).Item("SQLUserName")
Session("SQLUserPassword") = mConfigurationTable.Rows(0).Item("SQLUserPassword")
Session("ExchangeSenderEMail") = mConfigurationTable.Rows(0).Item("ExchangeSenderEMail")
Session("ExchangeServerName") = mConfigurationTable.Rows(0).Item("ExchangeServerName")
Session("ExchangeServerSMTPPort") = mConfigurationTable.Rows(0).Item("ExchangeServerSMTPPort")
Session("MinPasswordLength") = mConfigurationTable.Rows(0).Item("MinPasswordLength")
Session("EncryptionPassword") = mConfigurationTable.Rows(0).Item("EncryptionPassword")
Session("SupportCenterGroup") = mConfigurationTable.Rows(0).Item("SupportCenterGroup")
```

End Sub

#End Region

' Считывание вопросов

#Region "ReadQuestionsXML 1.0"

```
Public Sub ReadQuestionsXML(ByVal FileName As String)
    Dim mXMLFileName As String
    Dim mQuestionsTable As Data.DataTable
    Dim mQuestionsList As ListItemCollection
    ' Путь к файлу конфигурации
    mXMLFileName = Server.MapPath("~/App_Data/" & FileName)
    ' Получение параметров из файла конфигурации
    mQuestionsTable = Me.ReadXmlFile(mXMLFileName, "Question")
    mQuestionsList = New ListItemCollection
    mQuestionsList.Add("")
    For Each currentRow As Data.DataRow In mQuestionsTable.Rows
        mQuestionsList.Add(currentRow.Item(0))
    Next
    ' Запоминание параметров
    Session.Add("Questions", mQuestionsList)
End Sub
```

#End Region

' Получение таблицы из базы данных SQL

#Region "GetSQLTable 1.0"

```
Public Function GetSQLTable(ByVal ServerName As String, ByVal DatabaseName As String, ByVal UserName As String, ByVal UserPassword As String,
ByVal SQLQuery As String) As Data.DataTable
    Dim TempReader As Data.Odbc.OdbcDataReader = Nothing
    Dim TempTable As New Data.DataTable
    Dim mDatabaseConnection As New Data.Odbc.OdbcConnection
```

```

Dim mDatabaseCommand As New Data.Odbc.OdbcCommand
Dim mDatabaseAdapter As New Data.Odbc.OdbcDataAdapter
Dim mDatabaseDataTable As New Data.DataTable
' Настройка подключения к базе данных
mDatabaseConnection.ConnectionString = "DRIVER={SQL Server};SERVER=" & ServerName & ";DATABASE=" & DatabaseName & ";UID=" & UserName & ";PWD="
& UserPassword & ";"
' Подключение к базе данных
Try
    mDatabaseConnection.Open()
Catch ex As Exception
    Return Nothing
End Try
mDatabaseCommand.CommandText = SQLQuery
mDatabaseCommand.Connection = mDatabaseConnection
mDatabaseAdapter.SelectCommand = mDatabaseCommand
' Выполнение SQL-запроса
Try
    TempReader = mDatabaseCommand.ExecuteReader
Catch ex As Exception

End Try
' Заполнение выходной таблицы
Try
    If Not (TempReader Is Nothing) Then
        For iCounter As Integer = 0 To TempReader.FieldCount - 1
            TempTable.Columns.Add(New Data.DataColumn(TempReader.GetName(iCounter), Type.GetType("System.String")))
        Next
        Do While TempReader.Read
            Dim TempArray(TempReader.FieldCount - 1) As String
            For iCounter As Integer = 0 To TempReader.FieldCount - 1
                If Not (IsDBNull(TempReader.Item(iCounter))) Then
                    TempArray(iCounter) = TempReader.Item(iCounter)
                Else
                    TempArray(iCounter) = Nothing
                End If
            Next
            TempTable.Rows.Add(TempArray)
        Loop
    End If
Catch ex As Exception

End Try
' Отключение от базы данных
mDatabaseConnection.Close()
' Возвращение выходной таблицы
Return TempTable
End Function

```

#End Region

' Выполнение команды в базе данных SQL

#Region "ExecCommand_SQL 1.0"

Public Function ExecSQLCommand(ByVal ServerName As String, ByVal DatabaseName As String, ByVal UserName As String, ByVal UserPassword As String, ByVal SQLQuery As String) As Boolean

Dim TempValue As Integer = 0

' Создание подключения к SQL базе данных

Dim mDatabaseConnection As New Data.Odbc.OdbcConnection

Dim mDatabaseCommand As New Data.Odbc.OdbcCommand

Dim mDatabaseAdapter As New Data.Odbc.OdbcDataAdapter

Dim mDatabaseDataTable As New Data.DataTable

' Настройка подключения к базе данных

mDatabaseConnection.ConnectionString = "DRIVER={SQL Server};SERVER=" & ServerName & ";DATABASE=" & DatabaseName & ";UID=" & UserName & ";PWD=" & UserPassword & ";"

' Подключение к базе данных

Try

mDatabaseConnection.Open()

Catch ex As Exception

' Прекращение работы функции

Return False

End Try

' Составление команды удаления строки

mDatabaseCommand.CommandText = SQLQuery

mDatabaseCommand.Connection = mDatabaseConnection

mDatabaseAdapter.SelectCommand = mDatabaseCommand

' Удаление строки

Try

TempValue = mDatabaseCommand.ExecuteNonQuery()

Catch ex As Exception

End Try

' Закрытие соединения с базой данных

mDatabaseConnection.Close()

If TempValue > 0 Then

Return True

Else

Return False

End If

End Function

#End Region

' Вставка таблицы в базу данных SQL (с очисткой существующей)

#Region "InsertTable_SQL 1.2"

Public Function InsertSQLTable(ByVal ServerName As String, ByVal DatabaseName As String, ByVal UserName As String, ByVal UserPassword As String, ByVal UserTable As Data.DataTable) As Boolean

Dim mDatabaseConnection As New Data.Odbc.OdbcConnection

Dim mDatabaseCommand As New Data.Odbc.OdbcCommand

```

Dim mDatabaseAdapter As New Data.Odbc.OdbcDataAdapter
Dim mDatabaseDataTable As New Data.DataTable
' Настройка подключения к базе данных
mDatabaseConnection.ConnectionString = "DRIVER={SQL Server};SERVER=" & ServerName & ";DATABASE=" & DatabaseName & ";UID=" & UserName & ";PWD="
& UserPassword & ";"
' Подключение к базе данных
Try
    mDatabaseConnection.Open()
Catch ex As Exception
    Return Nothing
End Try
mDatabaseCommand.Connection = mDatabaseConnection
mDatabaseAdapter.SelectCommand = mDatabaseCommand
For iRowCounter As Integer = 0 To UserTable.Rows.Count - 1
    Dim mCurrentColumnNames As String
    Dim mCurrentRowValues As String
    mCurrentColumnNames = ""
    mCurrentRowValues = ""
    For iColumnCounter As Integer = 0 To UserTable.Columns.Count - 1
        mCurrentColumnNames = mCurrentColumnNames & "[" & UserTable.Columns(iColumnCounter).Caption & "], "
        If IsDBNull(UserTable.Rows(iRowCounter).Item(iColumnCounter)) = True Then
            mCurrentRowValues = mCurrentRowValues & "NULL" & ", "
        Else
            ' Экранирование служебных символов, если такие есть в строке
            If InStr(UserTable.Rows(iRowCounter).Item(iColumnCounter), "'") > 0 Then UserTable.Rows(iRowCounter).Item(iColumnCounter) =
Replace(UserTable.Rows(iRowCounter).Item(iColumnCounter), "'", "''")
            If UCase(UserTable.Rows(iRowCounter).Item(iColumnCounter)) = "TRUE" Then
                mCurrentRowValues = mCurrentRowValues & "1" & ", "
            Else
                If UCase(UserTable.Rows(iRowCounter).Item(iColumnCounter)) = "FALSE" Then
                    mCurrentRowValues = mCurrentRowValues & "0" & ", "
                Else
                    ' Для нелатинских символов
                    If InStr(Me.ConvertUnicodeToAscii(UserTable.Rows(iRowCounter).Item(iColumnCounter)), "?") > 0 Then
                        mCurrentRowValues = mCurrentRowValues & "N'" & UserTable.Rows(iRowCounter).Item(iColumnCounter) & "', "
                    Else
                        mCurrentRowValues = mCurrentRowValues & "'" & UserTable.Rows(iRowCounter).Item(iColumnCounter) & "', "
                    End If
                End If
            End If
        End If
    Next
    mCurrentColumnNames = Left(mCurrentColumnNames, mCurrentColumnNames.Length - 1)
    mCurrentRowValues = Left(mCurrentRowValues, mCurrentRowValues.Length - 1)
    mDatabaseCommand.CommandText = "INSERT INTO [" & UserTable.TableName & "]( " & mCurrentColumnNames & ") VALUES (" & mCurrentRowValues & ")"
    Try
        mDatabaseCommand.ExecuteNonQuery()
    Catch ex As Exception

```

```

        mDatabaseConnection.Close()
    Return False
End Try
Next
' Отключение от базы данных
mDatabaseConnection.Close()
Return True
End Function
#End Region

' Шифрование/расшифрование строки
#Region "Crypt/Encrypt string 1.2"

Public Sub MainCrypt()
    ' В КАЧЕСТВЕ ПАРОЛЯ 24 СИМВОЛА, НЕ БОЛЬШЕ, НЕ МЕНЬШЕ
    ' Пример кодирования
    Dim Code As String = EncryptString("ASDFGHJKAdfRABNDRVATRMZI", "Кодируем строку")
    ' Пример декодирования
    Dim deCode As String = DecryptBytes("ASDFGHJKAdfRABNDRVATRMZI", Code)
End Sub

Public Function EncryptString(ByVal Password As String, ByVal inString As String) As String
    Try
        Dim symAlg As New System.Security.Cryptography.AesCryptoServiceProvider()
        symAlg.IV = UnicodeEncoding.Unicode.GetBytes(Mid(Password, 1, 8)) 'вектор
        symAlg.Key = UnicodeEncoding.Unicode.GetBytes(Mid(Password, 9, 16)) 'Ключ
        Dim inBlock() As Byte = UnicodeEncoding.Unicode.GetBytes(inString)
        Dim xfrm As System.Security.Cryptography.ICryptoTransform = symAlg.CreateEncryptor()
        Dim outBlock() As Byte = xfrm.TransformFinalBlock(inBlock, 0, inBlock.Length)
        Return Convert.ToBase64String(outBlock)
    Catch ex As Exception
        Return "ERR_" + ex.Message
    End Try
End Function

Public Function DecryptBytes(ByVal Password As String, ByVal inString As String) As String
    Try
        Dim symAlg As New System.Security.Cryptography.AesCryptoServiceProvider()
        symAlg.IV = UnicodeEncoding.Unicode.GetBytes(Mid(Password, 1, 8)) 'вектор
        symAlg.Key = UnicodeEncoding.Unicode.GetBytes(Mid(Password, 9, 16)) 'Ключ
        Dim inBytes() As Byte = Convert.FromBase64String(inString)
        Dim xfrm As System.Security.Cryptography.ICryptoTransform = symAlg.CreateDecryptor()
        Dim outBlock() As Byte = xfrm.TransformFinalBlock(inBytes, 0, inBytes.Length)
        Return UnicodeEncoding.Unicode.GetString(outBlock)
    Catch ex As Exception
        Return "ERR_" + ex.Message
    End Try
End Function

```

```
#End Region
```

```
' Отправка сообщения через Exchange сервер
```

```
#Region "SendNotification 1.2"
```

```
' Отправка сообщения в простом текстовом формате
```

```
Function SendNotification(ByVal Recipients As String, ByVal Sender As String, ByVal MessageSubject As String, ByVal MessageBody As String, ByVal ExchangeServerName As String, ByVal ExchangeServerSMTPPort As String) As Boolean
```

```
Dim oEmail As Object = CreateObject("CDO.Message")
```

```
' Create "FROM:" field
```

```
oEmail.From = Sender
```

```
' Create "TO:" field
```

```
oEmail.To = Recipients
```

```
' Create the message subject
```

```
oEmail.Subject = MessageSubject
```

```
' Create the message body
```

```
oEmail.HTMLBody = MessageBody
```

```
' Set the e-mail parameters
```

```
oEmail.configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/sendusing") = 2
```

```
oEmail.configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpserver") = ExchangeServerName
```

```
oEmail.configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpserverport") = ExchangeServerSMTPPort
```

```
oEmail.configuration.Fields.Update()
```

```
' Send the message
```

```
Try
```

```
oEmail.Send()
```

```
Return True
```

```
Catch ex As Exception
```

```
Return False
```

```
End Try
```

```
End Function
```

```
' Отправка сообщения в HTML формате с указанием кодировки
```

```
Function SendNotification(ByVal Recipients As String, ByVal Sender As String, ByVal MessageSubject As String, ByVal MessageBody As String, ByVal ExchangeServerName As String, ByVal ExchangeServerSMTPPort As String, ByVal MessageEncoding As String) As Boolean
```

```
Dim oEmail As Object = CreateObject("CDO.Message")
```

```
' Create "FROM:" field
```

```
oEmail.From = Sender
```

```
' Create "TO:" field
```

```
oEmail.To = Recipients
```

```
' Create the message subject
```

```
oEmail.Subject = MessageSubject
```

```
' Create the message body
```

```
oEmail.HTMLBody = MessageBody
```

```
oEmail.BodyPart.Charset = MessageEncoding
```

```
oEmail.TextBodyPart.Charset = MessageEncoding
```

```
oEmail.HTMLBodyPart.Charset = MessageEncoding
```

```
' Set the e-mail parameters
```

```
oEmail.configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/sendusing") = 2
oEmail.configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpserver") = ExchangeServerName
oEmail.configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpserverport") = ExchangeServerSMTPPort
oEmail.Configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/languagecode") = 1049
oEmail.Configuration.Fields.Item("http://schemas.microsoft.com/cdo/configuration/usemessageresponsetext") = True
oEmail.configuration.Fields.Update()
' Send the message
Try
    oEmail.Send()
    Return True
Catch ex As Exception
    Return False
End Try
End Function
#End Region

End Class
```

Default.aspx

```
<%@ Page Title="" Language="VB" MasterPageFile="~/ProjectMasterPage.master" AutoEventWireup="false" CodeFile="Default.aspx.vb" Inherits="_Default" %>
```

```
<%@ MasterType VirtualPath="~/ProjectMasterPage.master" %>
```

```
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="Title_ContentPlaceHolder" Runat="Server">  
    <title>User Indentification Service - Start</title>  
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="Language_ContentPlaceHolder" Runat="Server">  
    <div>  
        <table>  
            <tr>  
                <td>  
                    <asp:Button ID="EN_Button" runat="server" Text="EN" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="FR_Button" runat="server" Text="FR" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="NL_Button" runat="server" Text="NL" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="DE_Button" runat="server" Text="DE" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="IT_Button" runat="server" Text="IT" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="PT_Button" runat="server" Text="PT" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
            </tr>  
            <tr>  
                <td>  
                    <asp:Button ID="ES_Button" runat="server" Text="ES" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="PL_Button" runat="server" Text="PL" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="HU_Button" runat="server" Text="HU" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
                <td>  
                    <asp:Button ID="CS_Button" runat="server" Text="CS" CssClass="LanguageButton" UseSubmitBehavior="false" />  
                </td>  
            </tr>  
        </table>  
    </div>  
</asp:Content>
```



```

        <td>
            <asp:Button ID="RU_Button" runat="server" Text="RU" CssClass="LanguageButton" UseSubmitBehavior="false" />
        </td>
        <td>
            <asp:Button ID="UA_Button" runat="server" Text="UA" CssClass="LanguageButton" UseSubmitBehavior="false" Enabled="false"
Visible="false" />
        </td>
    </tr>
</table>
</div>
</asp:Content>

<asp:Content ID="Content3" ContentPlaceHolderID="ServiceName_ContentPlaceHolder" Runat="Server">
    User Indentification Service
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="PageContent_ContentPlaceHolder" Runat="Server">
    <asp:Panel ID="WorkZone_Panel" DefaultButton="LogIn_Button" runat="server" CssClass="WorkZone" >
        <div style="text-align: center;">
            <table style="width: 100%; height: 345px;">
                <tr style="vertical-align: middle;">
                    <td>
                        <div style="min-width: 250px;">
                            <h3><asp:Literal ID="UnlockUserIndentification_Literal" runat="server" Text="<%"$ Resources: Resource,
PageUnlockUserIndentification %>" /></h3>
                            <div style="margin: 10px 0px;">
                                <asp:Literal ID="DescriptionDefaultUnlock_Literal" runat="server" Text="<%"$ Resources: Resource,
DescriptionDefaultUnlock %>" />
                            </div>
                            <asp:Button ID="Next_Button" runat="server" Text="<%"$ Resources: Resource, ButtonNext %>" CssClass="Button"
UseSubmitBehavior="false" />
                        </div>
                    </td>
                    <td style="border-right: #a9aac4 1px solid; border-left: #a9aac4 1px solid; width: 2px;">&nbsp;</td>
                    <td>
                        <div style="min-width: 250px;">
                            <h3><asp:Literal ID="DescriptionDefaultAccount_Literal" runat="server" Text="<%"$ Resources: Resource,
DescriptionDefaultAccount %>" /></h3>
                            <table align="center">
                                <tr>
                                    <td><asp:Literal ID="UserAccount_Literal" runat="server" Text="<%"$ Resources: Resource, PageUserAccount %>"
/></td>
                                    <td><asp:TextBox ID="UserAccount_TextBox" runat="server" Width="200px" CssClass="TextBox"
AutoCompleteType="Disabled"/></td>
                                </tr>
                                <tr>
                                    <td><asp:Literal ID="UserPassword_Literal" runat="server" Text="<%"$ Resources: Resource, PageUserPassword %>"
/></td>

```

```

        <td><asp:TextBox ID="UserPassword_TextBox" runat="server" Width="200px" TextMode="Password" CssClass="TextBox"
AutoCompleteType="Disabled" /></td>
        </tr>
        <tr>
            <td></td>
            <td style="text-align:right;"><asp:Button ID="LogIn_Button" runat="server" Text="<%$ Resources: Resource,
ButtonLogIn %>" CssClass="Button" /></td>
        </tr>
    </table>
</div>
</td>
</tr>
</table>
</div>
</asp:Panel>
</asp:Content>

<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceHolder" Runat="Server">

    <asp:Button ID="Help_Button" runat="server" Text="<%$ Resources: Resource, ButtonHelp %>" CssClass="Button" UseSubmitBehavior="false" />

    <ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"
        PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
    </ajaxToolkit:ModalPopupExtender>
    <asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
        <div><asp:Literal ID="Info_Literal" runat="server" Text="<%$ Resources: Resource, HelpDefault %>"></asp:Literal></div>
        <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
        <asp:HiddenField ID="Info_HiddenField" runat="server" />
    </asp:Panel>

</asp:Content>

```

Default.aspx.vb

Partial Class _Default

Inherits System.Web.UI.Page

Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

' Смена языка страницы

ChangeLanguage()

' Если не было обращение страницы самой к себе, то считать настройки из файла конфигурации

If Page.IsPostBack = False Then

Master.ReadConfigurationXML("Configuration.xml")

Master.ReadQuestionsXML("Questions.xml")

Session.Add("SupportCenterMembers", Master.GetUsersOfGroup(Session("SupportCenterGroup"), 0, Session("DomainController")))

End If

End Sub

Protected Sub Next_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Next_Button.Click

Response.Redirect("SelfServiceLogin.aspx")

End Sub

Protected Sub LogIn_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles LogIn_Button.Click

If UserAccount_TextBox.Text <> "" AndAlso UserPassword_TextBox.Text <> "" AndAlso ValidateUser_AD(UserAccount_TextBox.Text, UserPassword_TextBox.Text) Then

' Заполнение свойств учетной записи

Master.FillUserAccountProperties(UserAccount_TextBox.Text)

' Перенаправление на страницу свойств учетной записи

Response.Redirect("UserProperties.aspx")

Else

Info_Literal.Text = Resources.Resource.ErrorWrongCredentials

Info_ModalPopupExtender.Show()

End If

End Sub

Protected Sub Help_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Help_Button.Click

Info_Literal.Text = Resources.Resource.HelpDefault

Info_ModalPopupExtender.Show()

End Sub

Protected Sub EN_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles EN_Button.Click

Session("CurrentCulture") = "en"

ChangeLanguage()

End Sub

Protected Sub RU_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles RU_Button.Click

Session("CurrentCulture") = "ru"

ChangeLanguage()

End Sub

```
Protected Sub DE_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles DE_Button.Click
    Session("CurrentCulture") = "de"
    ChangeLanguage()
End Sub
```

```
Protected Sub IT_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles IT_Button.Click
    Session("CurrentCulture") = "it"
    ChangeLanguage()
End Sub
```

```
Protected Sub ES_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles ES_Button.Click
    Session("CurrentCulture") = "es"
    ChangeLanguage()
End Sub
```

```
Protected Sub FR_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles FR_Button.Click
    Session("CurrentCulture") = "fr"
    ChangeLanguage()
End Sub
```

```
Protected Sub NL_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles NL_Button.Click
    Session("CurrentCulture") = "nl"
    ChangeLanguage()
End Sub
```

```
Protected Sub CS_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles CS_Button.Click
    Session("CurrentCulture") = "cs"
    ChangeLanguage()
End Sub
```

```
Protected Sub PL_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles PL_Button.Click
    Session("CurrentCulture") = "pl"
    ChangeLanguage()
End Sub
```

```
Protected Sub HU_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles HU_Button.Click
    Session("CurrentCulture") = "hu"
    ChangeLanguage()
End Sub
```

```
Protected Sub PT_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles PT_Button.Click
    Session("CurrentCulture") = "pt"
    ChangeLanguage()
End Sub
```

```
Protected Sub UA_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles UA_Button.Click
    Session("CurrentCulture") = "ua"
    ChangeLanguage()
```

End Sub

```
' Проверка правильности пары пользователь-пароль
Private Function ValidateUser_AD(ByVal UserAccount As String, ByVal UserPassword As String) As Boolean
    Dim mActiveDirectoryMembershipProvider As ActiveDirectoryMembershipProvider = Nothing
    Dim mConnectionName As String = Nothing
    Dim mNameValueCollection As NameValueCollection = Nothing
    'Dim mConnectionUserName As String = Nothing
    'Dim mConnectionPassword As String = Nothing
    mActiveDirectoryMembershipProvider = New ActiveDirectoryMembershipProvider
    mConnectionName = "MyADConnection"
    'mConnectionUserName = "DOMAIN\USERNAME"
    'mConnectionPassword = "Password"
    mNameValueCollection = New NameValueCollection()
    mNameValueCollection.Add("connectionStringName", mConnectionName)
    'MyNameValueCollection.Add("connectionUsername", MyConnectionUserName)
    'MyNameValueCollection.Add("connectionPassword", MyConnectionPassword)
    mNameValueCollection.Add("attributeMapUsername", "sAMAccountName")
    mActiveDirectoryMembershipProvider.Initialize("ADDomainADMembershipProvider", mNameValueCollection)
    Return mActiveDirectoryMembershipProvider.ValidateUser(UserAccount, UserPassword)
End Function
```

```
' Смена языка элементов страницы
Protected Sub ChangeLanguage()
    If Session("CurrentCulture") <> "" Then
        ' Установка предпочитаемого языка как текущего
        Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
        ' Смена теста объектов

        UnlockUserIndentification_Literal.Text = Resources.Resource.PageUnlockUserIndentification
        DescriptionDefaultUnlock_Literal.Text = Resources.Resource.DescriptionDefaultUnlock
        Next_Button.Text = Resources.Resource.ButtonNext

        DescriptionDefaultAccount_Literal.Text = Resources.Resource.DescriptionDefaultAccount
        UserAccount_Literal.Text = Resources.Resource.PageUserAccount
        UserPassword_Literal.Text = Resources.Resource.PageUserPassword
        LogIn_Button.Text = Resources.Resource.ButtonLogIn

        Help_Button.Text = Resources.Resource.ButtonHelp
        Info_Literal.Text = Resources.Resource.ErrorWrongCredentials
    End If
End Sub
```

End Class

SecretQuestions.aspx

```
<%@ Page Title="" Language="VB" MasterPageFile="~/ProjectMasterPage.master" AutoEventWireup="false" CodeFile="SecretQuestions.aspx.vb"
    Inherits="SecretQuestions" %>

<%@ MasterType VirtualPath="~/ProjectMasterPage.master" %>
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>

<asp:Content ID="Content1" ContentPlaceHolderID="Title_ContentPlaceHolder" Runat="Server">
    <title>User Indentification Service - Secret questions</title>
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="Language_ContentPlaceHolder" Runat="Server">
</asp:Content>

<asp:Content ID="Content3" ContentPlaceHolderID="ServiceName_ContentPlaceHolder" Runat="Server">
    User Indentification Service
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="PageContent_ContentPlaceHolder" Runat="Server">
    <asp:Panel ID="WorkZone_Panel" runat="server" CssClass="WorkZone">
        <h3><asp:Literal ID="SCQuestion_Literal" runat="server" Text="<%$ Resources: Resource, PageSCQuestion %>" /></h3>
        <p><asp:Literal ID="ServiceDescriptionSC_Literal" runat="server" Text="<%$ Resources: Resource, DescriptionSC %>" /></p>
        <div style="text-align: center;">
            <table align="center">
                <tr>
                    <td>
                        <td>
                            <asp:Literal ID="SecretQuestionSC_Literal" runat="server" Text="<%$ Resources: Resource, PageSecretQuestion %>" />
                        </td>
                        <td>
                            <asp:Literal ID="YourAnswerSC_Literal" runat="server" Text="<%$ Resources: Resource, PageAnswer %>" />
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <asp:DropDownList ID="QuestionSC_DropDownList" Width="407px" CssClass="DropDownList" runat="server" />
                        </td>
                        <td>
                            <asp:TextBox ID="AnswerSC_TextBox" runat="server" Width="400px" CssClass="TextBox" AutoCompleteType="Disabled" />
                            <ajaxToolkit:FilteredTextBoxExtender ID="AnswerSC_FTBE" runat="server" TargetControlID="AnswerSC_TextBox"
                                FilterType="Custom" ValidChars="abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890 -" />
                        </td>
                    </tr>
                </table>
                <asp:Button ID="ResetSC_Button" runat="server" Text="<%$ Resources: Resource, ButtonReset %>" CssClass="Button" />
                <asp:Button ID="SaveSC_Button" runat="server" Text="<%$ Resources: Resource, ButtonSave %>" CssClass="Button" />
            </div>
        <h3><asp:Literal ID="SSQuestion_Literal" runat="server" Text="<%$ Resources: Resource, PageSSQuestion %>" /></h3>
    </asp:Panel>
</asp:Content>
```

```
<p><asp:Literal ID="ServiceDescriptionSS_Literal" runat="server" Text="<%$ Resources: Resource, DescriptionSS %>" /></p>
<div style="text-align: center;">
  <table align="center">
    <tr>
      <td>
        <asp:Literal ID="SecretQuestionSS_Literal" runat="server" Text="<%$ Resources: Resource, PageSecretQuestion %>" />
      </td>
      <td>
        <asp:Literal ID="YourAnswerSS_Literal" runat="server" Text="<%$ Resources: Resource, PageAnswer %>" />
      </td>
    </tr>
    <tr>
      <td>
        <asp:DropDownList ID="QuestionSS1_DropDownList" Width="407px" CssClass="DropDownList" runat="server" />
      </td>
      <td>
        <asp:TextBox ID="AnswerSS1_TextBox" runat="server" Width="400px" CssClass="TextBox" AutoCompleteType="Disabled" />
        <ajaxToolkit:FilteredTextBoxExtender ID="AnswerSS1_FTBE" runat="server" TargetControlID="AnswerSS1_TextBox"
          FilterType="Custom" ValidChars="abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890 -" />
      </td>
    </tr>
    <tr>
      <td>
        <asp:DropDownList ID="QuestionSS2_DropDownList" Width="407px" CssClass="DropDownList" runat="server" />
      </td>
      <td>
        <asp:TextBox ID="AnswerSS2_TextBox" runat="server" Width="400px" CssClass="TextBox" AutoCompleteType="Disabled" />
        <ajaxToolkit:FilteredTextBoxExtender ID="AnswerSS2_FTBE" runat="server" TargetControlID="AnswerSS2_TextBox"
          FilterType="Custom" ValidChars="abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890 -" />
      </td>
    </tr>
    <tr>
      <td>
        <asp:TextBox ID="QuestionSS3_TextBox" runat="server" Width="400px" CssClass="TextBox" AutoCompleteType="Disabled" />
        <ajaxToolkit:FilteredTextBoxExtender ID="QuestionSS3_FTBE" runat="server" TargetControlID="QuestionSS3_TextBox"
          FilterType="Custom" ValidChars="abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890 -" />
      </td>
      <td>
        <asp:TextBox ID="AnswerSS3_TextBox" runat="server" Width="400px" CssClass="TextBox" AutoCompleteType="Disabled" />
        <ajaxToolkit:FilteredTextBoxExtender ID="AnswerSS3_FTBE" runat="server" TargetControlID="AnswerSS3_TextBox"
          FilterType="Custom" ValidChars="abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890 -" />
      </td>
    </tr>
  </table>
  <asp:Button ID="ResetSS_Button" runat="server" Text="<%$ Resources: Resource, ButtonReset %>" CssClass="Button" />
  <asp:Button ID="SaveSS_Button" runat="server" Text="<%$ Resources: Resource, ButtonSave %>" CssClass="Button" />
</div>
</asp:Panel>
```

```
</asp:Content>
```

```
<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceholder" Runat="Server">
```

```
  <asp:Button ID="Help_Button" runat="server" Text="<%$ Resources: Resource, ButtonHelp %>" CssClass="Button" />
```

```
  <asp:Button ID="Back_Button" runat="server" Text="<%$ Resources: Resource, ButtonBack %>" CssClass="Button" />
```

```
  <ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"  
    PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
```

```
</ajaxToolkit:ModalPopupExtender>
```

```
  <asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
```

```
    <div><asp:Literal ID="Info_Literal" runat="server" Text="<%$ Resources: Resource, HelpSecretQuestions %>"></asp:Literal></div>
```

```
    <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
```

```
    <asp:HiddenField ID="Info_HiddenField" runat="server" />
```

```
  </asp:Panel>
```

```
</asp:Content>
```


SecretQuestions.aspx.vb

Partial Class SecretQuestions

Inherits System.Web.UI.Page

```
Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
    Dim mTempTable As Data.DataTable
    ChangeLanguage()
    ' Проверка, что настройки портала считаны, что вопросы считаны, и, что авторизация пройдена
    If (Not Session("SQLServerName") Is Nothing) AndAlso
        (Not Session("Questions") Is Nothing) AndAlso
        (Not Session("UserAccount") Is Nothing) Then
        If Page.IsPostBack = False Then
            ' Заполнение котрольного вопроса центра поддержки
            mTempTable = Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
Session("SQLUserPassword"), "SELECT * FROM qa WHERE qaAccount = '" & Session("UserAccount") & "'")
            If mTempTable.Rows.Count = 0 Then
                QuestionSC_DropDownList.DataSource = Session("Questions")
                QuestionSC_DropDownList.DataBind()
                QuestionSC_DropDownList.Enabled = True
                AnswerSC_TextBox.Text = ""
                AnswerSC_TextBox.Enabled = True
                ResetSC_Button.Enabled = False
                SaveSC_Button.Enabled = True
            Else
                QuestionSC_DropDownList.Items.Clear()
                QuestionSC_DropDownList.Items.Add(mTempTable.Rows(0).Item("qaQuestion"))
                QuestionSC_DropDownList.Enabled = False
                AnswerSC_TextBox.Text = (mTempTable.Rows(0).Item("qaAnswer"))
                AnswerSC_TextBox.Enabled = False
                ResetSC_Button.Enabled = True
                SaveSC_Button.Enabled = False
            End If
            ' Заполнение контрольных вопросов сервиса самообслуживания
            mTempTable = Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
Session("SQLUserPassword"), "SELECT * FROM qas WHERE qasAccount = '" & Session("UserAccount") & "'")
            If mTempTable.Rows.Count = 0 Then
                QuestionSS1_DropDownList.DataSource = Session("Questions")
                QuestionSS1_DropDownList.DataBind()
                QuestionSS1_DropDownList.Enabled = True
                QuestionSS2_DropDownList.DataSource = Session("Questions")
                QuestionSS2_DropDownList.DataBind()
                QuestionSS2_DropDownList.Enabled = True
                QuestionSS3_TextBox.Text = ""
                QuestionSS3_TextBox.Enabled = True
                AnswerSS1_TextBox.Text = ""
                AnswerSS2_TextBox.Text = ""
            End If
        End If
    End Sub
```

```

        AnswerSS3_TextBox.Text = ""
        AnswerSS1_TextBox.Enabled = True
        AnswerSS2_TextBox.Enabled = True
        AnswerSS3_TextBox.Enabled = True
        ResetSS_Button.Enabled = False
        SaveSS_Button.Enabled = True
    Else
        QuestionSS1_DropDownList.Items.Clear()
        QuestionSS1_DropDownList.Items.Add(mTempTable.Rows(0).Item("qasQuestion"))
        QuestionSS1_DropDownList.Enabled = False
        QuestionSS2_DropDownList.Items.Clear()
        QuestionSS2_DropDownList.Items.Add(mTempTable.Rows(1).Item("qasQuestion"))
        QuestionSS2_DropDownList.Enabled = False
        QuestionSS3_TextBox.Text = mTempTable.Rows(2).Item("qasQuestion")
        QuestionSS3_TextBox.Enabled = False
        AnswerSS1_TextBox.Text = Master.DecryptBytes(Session("EncryptionPassword"), (mTempTable.Rows(0).Item("qasAnswer")))
        AnswerSS1_TextBox.Enabled = False
        AnswerSS2_TextBox.Text = Master.DecryptBytes(Session("EncryptionPassword"), (mTempTable.Rows(1).Item("qasAnswer")))
        AnswerSS2_TextBox.Enabled = False
        AnswerSS3_TextBox.Text = Master.DecryptBytes(Session("EncryptionPassword"), (mTempTable.Rows(2).Item("qasAnswer")))
        AnswerSS3_TextBox.Enabled = False
        ResetSS_Button.Enabled = True
        SaveSS_Button.Enabled = False
    End If
End If
Else
    ' Перенаправление на страницу неавторизованных пользователей
    Master.ClearSessionVariables()
    Response.Redirect("Default.aspx")
End If
End Sub

' Сброс котрольного вопроса центра поддержки
Protected Sub ResetSC_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles ResetSC_Button.Click
    Dim mResult As Boolean
    mResult = Master.ExecSqlCommand(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"), Session("SQLUserPassword"),
"DELETE FROM qa WHERE qaAccount = '" & Session("UserAccount") & "'")
    If mResult = True Then
        QuestionSC_DropDownList.DataSource = Session("Questions")
        QuestionSC_DropDownList.DataBind()
        QuestionSC_DropDownList.Enabled = True
        AnswerSC_TextBox.Text = ""
        AnswerSC_TextBox.Enabled = True
        ResetSC_Button.Enabled = False
        SaveSC_Button.Enabled = True
        ' Отправка письма, что совершен контрольный вопрос центра поддержки удален
        Master.SendNotification(Session("UserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader,
Resources.Resource.NotificationSCStateDeactivated, Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))
    End If
End Sub

```

```

Else
    ' Ошибка при сбросе контрольного вопроса
    Info_Literal.Text = Resources.Resource.ErrorResettingQA
    Info_ModalPopupExtender.Show()
End If
End Sub

' Сохранение котрольного вопроса центра поддержки
Protected Sub SaveSC_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles SaveSC_Button.Click
    Dim mResult As Boolean
    Dim mTempTable As Data.DataTable
    Dim mTempColumn As Data.DataColumn
    Dim mTempRow As Data.DataRow
    If (Not QuestionSC_DropDownList.SelectedValue = "") And (Not AnswerSC_TextBox.Text = "") Then
        If AnswerSC_TextBox.Text.Length > 3 Then
            ' Создание структуры новой таблицы в памяти
            mTempTable = New Data.DataTable("qa")
            mTempColumn = New Data.DataColumn("qaAccount", System.Type.GetType("System.String"))
            mTempTable.Columns.Add(mTempColumn)
            mTempColumn = New Data.DataColumn("qaQuestion", System.Type.GetType("System.String"))
            mTempTable.Columns.Add(mTempColumn)
            mTempColumn = New Data.DataColumn("qaAnswer", System.Type.GetType("System.String"))
            mTempTable.Columns.Add(mTempColumn)
            ' Заполнение таблицы
            mTempRow = mTempTable.NewRow()
            mTempRow("qaAccount") = Session("UserAccount")
            mTempRow("qaQuestion") = QuestionSC_DropDownList.SelectedValue
            mTempRow("qaAnswer") = AnswerSC_TextBox.Text
            mTempTable.Rows.Add(mTempRow)
            mResult = Master.InsertSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
Session("SQLUserPassword"), mTempTable)
            If mResult = True Then
                QuestionSC_DropDownList.Enabled = False
                AnswerSC_TextBox.Enabled = False
                ResetSC_Button.Enabled = True
                SaveSC_Button.Enabled = False
                ' Отправка письма, что совершен контрольный вопрос центра поддержки установлен
                Master.SendNotification(Session("UserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader,
Resources.Resource.NotificationSCStateActivated, Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))
            Else
                ' Ошибка при сохранении контрольного вопроса
                Info_Literal.Text = Resources.Resource.ErrorSavingQA
                Info_ModalPopupExtender.Show()
            End If
        Else
            ' Ответ слишком короткий
            Info_Literal.Text = Resources.Resource.ErrorAnswerIsShort
            Info_ModalPopupExtender.Show()
        End If
    End If
End Sub

```

```

        End If

    Else
        ' Вы не ввели контрольный вопрос
        Info_Literal.Text = Resources.Resource.ErrorQuestionIsEmpty
        Info_ModalPopupExtender.Show()
    End If
End Sub

' Сброс контрольных вопросов сервиса самообслуживания
Protected Sub ResetSS_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles ResetSS_Button.Click
    Dim mResult As Boolean
    mResult = Master.ExecSqlCommand(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"), Session("SQLUserPassword"),
"DELETE FROM qas WHERE qasAccount = '" & Session("UserAccount") & "'")
    If mResult = True Then
        QuestionSS1_DropDownList.DataSource = Session("Questions")
        QuestionSS1_DropDownList.DataBind()
        QuestionSS1_DropDownList.Enabled = True
        QuestionSS2_DropDownList.DataSource = Session("Questions")
        QuestionSS2_DropDownList.DataBind()
        QuestionSS2_DropDownList.Enabled = True
        QuestionSS3_TextBox.Text = ""
        QuestionSS3_TextBox.Enabled = True
        AnswerSS1_TextBox.Text = ""
        AnswerSS2_TextBox.Text = ""
        AnswerSS3_TextBox.Text = ""
        AnswerSS1_TextBox.Enabled = True
        AnswerSS2_TextBox.Enabled = True
        AnswerSS3_TextBox.Enabled = True
        ResetSS_Button.Enabled = False
        SaveSS_Button.Enabled = True
        ' Отправка письма, что совершен контрольные вопросы сервиса самообслуживания удалены
        Master.SendNotification(Session("UserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader,
Resources.Resource.NotificationSSStateDeactivated, Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))
    Else
        ' Ошибка при сбросе контрольного вопроса
        Info_Literal.Text = Resources.Resource.ErrorResettingQA
        Info_ModalPopupExtender.Show()
    End If
End Sub

' Сохранение контрольных вопросов сервиса самообслуживания
Protected Sub SaveSS_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles SaveSS_Button.Click
    Dim mResult As Boolean
    Dim mTempTable As Data.DataTable
    Dim mTempColumn As Data.DataColumn
    Dim mTempRow As Data.DataRow
    If (Not QuestionSS1_DropDownList.SelectedValue = "") And (Not AnswerSS1_TextBox.Text = "") And

```

```

(Not QuestionSS2_DropDownList.SelectedValue = "") And (Not AnswerSS2_TextBox.Text = "") And
(Not QuestionSS3_TextBox.Text = "") And (Not AnswerSS3_TextBox.Text = "") Then
If AnswerSS1_TextBox.Text.Length > 3 And
AnswerSS2_TextBox.Text.Length > 3 And
QuestionSS3_TextBox.Text.Length > 3 And AnswerSS3_TextBox.Text.Length > 3 Then
If Not ((QuestionSS1_DropDownList.SelectedValue = QuestionSS2_DropDownList.SelectedValue) Or
(QuestionSS1_DropDownList.SelectedValue = QuestionSS3_TextBox.Text) Or
(QuestionSS2_DropDownList.SelectedValue = QuestionSS3_TextBox.Text)) Then
' Создание структуры новой таблицы в памяти
mTempTable = New Data.DataTable("qas")
mTempColumn = New Data.DataColumn("qasAccount", System.Type.GetType("System.String"))
mTempTable.Columns.Add(mTempColumn)
mTempColumn = New Data.DataColumn("qasQuestion", System.Type.GetType("System.String"))
mTempTable.Columns.Add(mTempColumn)
mTempColumn = New Data.DataColumn("qasAnswer", System.Type.GetType("System.String"))
mTempTable.Columns.Add(mTempColumn)
' Заполнение таблицы
mTempRow = mTempTable.NewRow()
mTempRow("qasAccount") = Session("UserAccount")
mTempRow("qasQuestion") = QuestionSS1_DropDownList.SelectedValue
mTempRow("qasAnswer") = Master.EncryptString(Session("EncryptionPassword"), AnswerSS1_TextBox.Text)
mTempTable.Rows.Add(mTempRow)
mTempRow = mTempTable.NewRow()
mTempRow("qasAccount") = Session("UserAccount")
mTempRow("qasQuestion") = QuestionSS2_DropDownList.SelectedValue
mTempRow("qasAnswer") = Master.EncryptString(Session("EncryptionPassword"), AnswerSS2_TextBox.Text)
mTempTable.Rows.Add(mTempRow)
mTempRow = mTempTable.NewRow()
mTempRow("qasAccount") = Session("UserAccount")
mTempRow("qasQuestion") = QuestionSS3_TextBox.Text
mTempRow("qasAnswer") = Master.EncryptString(Session("EncryptionPassword"), AnswerSS3_TextBox.Text)
mTempTable.Rows.Add(mTempRow)
mResult = Master.InsertSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
Session("SQLUserPassword"), mTempTable)
If mResult = True Then
QuestionSS1_DropDownList.Enabled = False
QuestionSS2_DropDownList.Enabled = False
QuestionSS3_TextBox.Enabled = False
AnswerSS1_TextBox.Enabled = False
AnswerSS2_TextBox.Enabled = False
AnswerSS3_TextBox.Enabled = False
ResetSS_Button.Enabled = True
SaveSS_Button.Enabled = False
' Отправка письма, что совершен контрольные вопросы сервиса самообслуживания установлены
Master.SendNotification(Session("UserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader,
Resources.Resource.NotificationSSStateActivated, Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))
Else
' Ошибка при сохранении контрольного вопроса

```

```

        Info_Literal.Text = Resources.Resource.ErrorSavingQA
        Info_ModalPopupExtender.Show()
    End If
Else
    ' Вопросы одинаковые
    Info_Literal.Text = Resources.Resource.ErrorQuestionsAreTheSame
    Info_ModalPopupExtender.Show()
End If
Else
    ' Ответ слишком короткий
    Info_Literal.Text = Resources.Resource.ErrorAnswerIsShort
    Info_ModalPopupExtender.Show()
End If
Else
    ' Вы не ввели контрольный вопрос
    Info_Literal.Text = Resources.Resource.ErrorQuestionIsEmpty
    Info_ModalPopupExtender.Show()
End If
End Sub

Protected Sub Help_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Help_Button.Click
    Info_Literal.Text = Resources.Resource.HelpSecretQuestions
    Info_ModalPopupExtender.Show()
End Sub

Protected Sub Back_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Back_Button.Click
    Response.Redirect("UserProperties.aspx")
End Sub

' Смена языка элементов страницы
Protected Sub ChangeLanguage()
    ' Проверка, что предпочитаемый язык задан
    If Session("CurrentCulture") <> "" Then
        ' Установка предпочитаемого языка как текущего
        Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
        ' Смена теста объектов

        SCQuestion_Literal.Text = Resources.Resource.PageSCQuestion
        ServiceDescriptionSC_Literal.Text = Resources.Resource.DescriptionSC
        SecretQuestionSC_Literal.Text = Resources.Resource.PageSecretQuestion
        YourAnswerSC_Literal.Text = Resources.Resource.PageAnswer
        ResetSC_Button.Text = Resources.Resource.ButtonReset
        SaveSC_Button.Text = Resources.Resource.ButtonSave

        SSQuestion_Literal.Text = Resources.Resource.PageSSQuestion
        ServiceDescriptionSS_Literal.Text = Resources.Resource.DescriptionSS
        SecretQuestionSS_Literal.Text = Resources.Resource.PageSecretQuestion
        YourAnswerSS_Literal.Text = Resources.Resource.PageAnswer
    End If
End Sub

```

```
ResetSS_Button.Text = Resources.Resource.ButtonReset
SaveSS_Button.Text = Resources.Resource.ButtonSave

Help_Button.Text = Resources.Resource.ButtonHelp
Back_Button.Text = Resources.Resource.ButtonBack
Info_Literal.Text = Resources.Resource.HelpSecretQuestions
```

```
End If
End Sub
```

```
End Class
```

SelfServiceActions.aspx

```
<%@ Page Title="" Language="VB" MasterPageFile="~/ProjectMasterPage.master" AutoEventWireup="false" CodeFile="SelfServiceActions.aspx.vb"
    Inherits="SelfServiceActions" %>

<%@ MasterType VirtualPath="~/ProjectMasterPage.master" %>
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>

<asp:Content ID="Content1" ContentPlaceHolderID="Title_ContentPlaceHolder" Runat="Server">
    <title>User Indentification Service - Self-service actions</title>
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="Language_ContentPlaceHolder" Runat="Server">
</asp:Content>

<asp:Content ID="Content3" ContentPlaceHolderID="ServiceName_ContentPlaceHolder" Runat="Server">
    User Indentification Service
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="PageContent_ContentPlaceHolder" Runat="Server">
    <asp:Panel ID="WorkZone_Panel" runat="server" CssClass="WorkZone">
        <div style="text-align: center;">
            <table style="width: 100%; height: 345px;" align="center">
                <tr style="vertical-align: middle;">
                    <td>
                        <div style="min-width: 250px;">
                            <h3><asp:Literal ID="SetNewPassword_Literal" runat="server" Text="<%$ Resources: Resource, PageSetNewPassword %>" /></h3>
                            <table style="text-align:left; width:400px;" align="center">
                                <tr>
                                    <td><asp:Literal ID="NewPassword_Literal" runat="server" Text="<%$ Resources: Resource, PageNewPassword %>"
                                        <asp:Literal ID="NewPassword_Literal" runat="server" Text="<%$ Resources: Resource, PageNewPassword %>"
                                        <td style="text-align:right;"><asp:TextBox ID="NewPassword_TextBox" runat="server" Width="200px"
                                        TextMode="Password" CssClass="TextBox" AutoCompleteType="Disabled"/></td>
                                </tr>
                                <tr>
                                    <td><asp:Literal ID="NewPasswordConfirm_Literal" runat="server" Text="<%$ Resources: Resource,
                                        PageNewPasswordConfirm %>" /></td>
                                    <td style="text-align:right;"><asp:TextBox ID="NewPasswordConfirm_TextBox" runat="server" Width="200px"
                                        TextMode="Password" CssClass="TextBox" AutoCompleteType="Disabled" /></td>
                                </tr>
                                <tr>
                                    <td colspan="2" style="text-align:right;"><asp:Button ID="Set_Button" runat="server" Text="<%$ Resources:
                                        Resource, ButtonSet %>" CssClass="Button" /></td>
                                </tr>
                            </table>
                        </div>
                    </td>
                    <td style="border-right: #a9aac4 1px solid; border-left: #a9aac4 1px solid; width: 2px;">&nbsp;</td>
                </tr>
            </table>
        </div>
    </asp:Panel>
</asp:Content>
```



```

        <td>
            <div style="min-width: 250px;">
                <h3><asp:Literal ID="UnlockAccount_Literal" runat="server" Text="<%"$ Resources: Resource, PageUnlockAccount %>" /></h3>
                <table style="text-align:left; width:300px;" align="center">
                    <tr>
                        <td><asp:Literal ID="AccountStatus_Literal" runat="server" Text="<%"$ Resources: Resource, PageAccountStatus %>"
                    /></td>
                        <td style="text-align:right;"><asp:Label ID="AccountStatus_Label" runat="server" Text="" /></td>
                    </tr>
                    <tr>
                        <td colspan="2" style="text-align:right;"><asp:Button ID="Unlock_Button" runat="server" Text="<%"$ Resources:
Resource, ButtonUnlock %>" CssClass="Button" /></td>
                    </tr>
                </table>
            </div>
        </td>
    </tr>
</table>
</div>
</asp:Panel>
</asp:Content>

<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceHolder" Runat="Server">

    <asp:Button ID="Help_Button" runat="server" Text="<%"$ Resources: Resource, ButtonHelp %>" CssClass="Button" />
    <asp:Button ID="LogOut_Button" runat="server" Text="<%"$ Resources: Resource, ButtonLogOut %>" CssClass="Button" />

    <ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"
        PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
    </ajaxToolkit:ModalPopupExtender>
    <asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
        <div><asp:Literal ID="Info_Literal" runat="server" Text="<%"$ Resources: Resource, HelpSecretQuestions %>"></asp:Literal></div>
        <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
        <asp:HiddenField ID="Info_HiddenField" runat="server" />
    </asp:Panel>

</asp:Content>

```

SelfServiceActions.aspx.vb

```
Partial Class SelfServiceActions
```

```
    Inherits System.Web.UI.Page
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
```

```
        ChangeLanguage()
```

```
        ' Проверка, что настройки портала считаны, и, что авторизация пройдена
```

```
        If (Not Session("SQLServerName") Is Nothing) AndAlso
```

```
            (Not Session("SSUserDistinguishedName") Is Nothing) Then
```

```
            If Page.IsPostBack = False Then
```

```
                If Session("SSUserLocked") = True Then
```

```
                    AccountStatus_Label.Text = Resources.Resource.PageLocked
```

```
                    AccountStatus_Label.ForeColor = Drawing.Color.Orange
```

```
                    AccountStatus_Label.Font.Bold = True
```

```
                    Unlock_Button.Enabled = True
```

```
                Else
```

```
                    AccountStatus_Label.Text = Resources.Resource.PageUnlocked
```

```
                    AccountStatus_Label.ForeColor = Drawing.Color.White
```

```
                    AccountStatus_Label.Font.Bold = False
```

```
                    Unlock_Button.Enabled = False
```

```
                End If
```

```
                If Session("SSUserCanNotChangePassword") = True Then
```

```
                    NewPassword_TextBox.Enabled = False
```

```
                    NewPasswordConfirm_TextBox.Enabled = False
```

```
                    Set_Button.Enabled = False
```

```
                Else
```

```
                    NewPassword_TextBox.Enabled = True
```

```
                    NewPasswordConfirm_TextBox.Enabled = True
```

```
                    Set_Button.Enabled = True
```

```
                End If
```

```
            End If
```

```
        Else
```

```
            ' Перенаправление на страницу неавторизованных пользователей
```

```
            Master.ClearSessionVariables()
```

```
            Response.Redirect("Default.aspx")
```

```
        End If
```

```
    End Sub
```

```
    Protected Sub Help_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Help_Button.Click
```

```
        Info_Literal.Text = Resources.Resource.HelpSelfServiceActions
```

```
        Info_ModalPopupExtender.Show()
```

```
    End Sub
```

```
    Protected Sub LogOut_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles LogOut_Button.Click
```

```
        Master.ClearSessionVariables()
```

```
        Response.Redirect("Default.aspx")
```

End Sub

' Установка нового пароля учетной записи

Protected Sub Set_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Set_Button.Click

If NewPassword_TextBox.Text = NewPasswordConfirm_TextBox.Text Then

If NewPassword_TextBox.Text.Length >= Session("MinPasswordLength") Then

If Master.SetUserPassword(Session("SSUserDistinguishedName"), NewPassword_TextBox.Text, Session("SSDomainController")) = True Then

' Отправка письма, что пароль изменен

Master.SendNotification(Session("SSUserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader, Resources.Resource.NotificationSSPasswordIsChanged & "
" & Session("SSIPdetection"), Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))

Info_Literal.Text = Resources.Resource.InfoPasswordChanged

Info_ModalPopupExtender.Show()

Else

' Ошибка при изменении пароля

Info_Literal.Text = Resources.Resource.ErrorChangingPassword

Info_ModalPopupExtender.Show()

End If

Else

' Ошибка: пароль короткий

Info_Literal.Text = Resources.Resource.ErrorPasswordIsShort

Info_ModalPopupExtender.Show()

End If

Else

' Ошибка: введены разные пароли

Info_Literal.Text = Resources.Resource.ErrorPasswordsAreDifferent

Info_ModalPopupExtender.Show()

End If

End Sub

' Разблокировка учетной записи

Protected Sub Unlock_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Unlock_Button.Click

If Master.UnlockUser(Session("SSUserDistinguishedName"), Session("SSDomainController")) = True Then

Info_Literal.Text = Resources.Resource.InfoAccountUnlocked

Info_ModalPopupExtender.Show()

AccountStatus_Label.Text = Resources.Resource.PageUnlocked

AccountStatus_Label.ForeColor = Drawing.Color.White

AccountStatus_Label.Font.Bold = False

Unlock_Button.Enabled = False

Else

Info_Literal.Text = Resources.Resource.ErrorUnlockingAccount

Info_ModalPopupExtender.Show()

End If

End Sub

' Смена языка элементов страницы

Protected Sub ChangeLanguage()

' Проверка, что предпочитаемый язык задан

```
If Session("CurrentCulture") <> "" Then
    ' Установка предпочитаемого языка как текущего
    Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
    ' Смена теста объектов

    SetNewPassword_Literal.Text = Resources.Resource.PageSetNewPassword
    NewPassword_Literal.Text = Resources.Resource.PageNewPassword
    NewPasswordConfirm_Literal.Text = Resources.Resource.PageNewPasswordConfirm
    Set_Button.Text = Resources.Resource.ButtonSet

    UnlockAccount_Literal.Text = Resources.Resource.PageUnlockAccount
    AccountStatus_Literal.Text = Resources.Resource.PageAccountStatus
    Unlock_Button.Text = Resources.Resource.ButtonUnlock

    Help_Button.Text = Resources.Resource.ButtonHelp
    LogOut_Button.Text = Resources.Resource.ButtonLogOut
    Info_Literal.Text = Resources.Resource.HelpSecretQuestions

End If
End Sub

End Class
```



```
        </tr>
    </table>
</div>
</asp:Panel>
</asp:Content>

<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceHolder" Runat="Server">

    <asp:Button ID="Help_Button" runat="server" Text="<%$ Resources: Resource, ButtonHelp %>" CssClass="Button" />
    <asp:Button ID="Back_Button" runat="server" Text="<%$ Resources: Resource, ButtonBack %>" CssClass="Button" />
    <asp:Button ID="Next_Button" runat="server" Text="<%$ Resources: Resource, ButtonNext %>" CssClass="Button" />

    <ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"
        PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
    </ajaxToolkit:ModalPopupExtender>
    <asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
        <div><asp:Literal ID="Info_Literal" runat="server" Text="<%$ Resources: Resource, HelpSelfServiceIdentification %>"></asp:Literal></div>
        <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
        <asp:HiddenField ID="Info_HiddenField" runat="server" />
    </asp:Panel>

</asp:Content>
```

SelfServiceIdentification.aspx.vb

```
Partial Class SelfServiceIdentification
```

```
Inherits System.Web.UI.Page
```

```
Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
```

```
Dim mTempTable As Data.DataTable
```

```
Dim mQuestion1 As Integer
```

```
Dim mQuestion2 As Integer
```

```
ChangeLanguage()
```

```
' Проверка, что настройки портала считаны, и, что авторизация пройдена
```

```
If (Not Session("SQLServerName") Is Nothing) AndAlso
```

```
(Not Session("SSUserAccount") Is Nothing) Then
```

```
If Page.IsPostBack = False Then
```

```
' Заполнение контрольных вопросов сервиса самообслуживания
```

```
mTempTable = Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
```

```
Session("SQLUserPassword"), "SELECT * FROM qas WHERE qasAccount = '" & Session("SSUserAccount") & "'")
```

```
' Выбор 2х вопросов из 3х
```

```
mQuestion1 = 0
```

```
mQuestion2 = 0
```

```
Randomize()
```

```
Do
```

```
    mQuestion1 = Int(Rnd() * 10)
```

```
Loop Until (mQuestion1 >= 1 And mQuestion1 <= 3)
```

```
Do
```

```
    Do
```

```
        mQuestion2 = Int(Rnd() * 10)
```

```
        Loop Until (mQuestion2 >= 1 And mQuestion2 <= 3)
```

```
Loop While mQuestion2 = mQuestion1
```

```
' Сохранение выбранных вопросов и ответов в памяти сервера
```

```
Session.Add("SSQuestion1", mTempTable.Rows(mQuestion1 - 1).Item("gasQuestion"))
```

```
Session.Add("SSQuestion2", mTempTable.Rows(mQuestion2 - 1).Item("gasQuestion"))
```

```
Session.Add("SSAnswer1", Master.DecryptBytes(Session("EncryptionPassword"), mTempTable.Rows(mQuestion1 - 1).Item("gasAnswer")))
```

```
Session.Add("SSAnswer2", Master.DecryptBytes(Session("EncryptionPassword"), mTempTable.Rows(mQuestion2 - 1).Item("gasAnswer")))
```

```
' Отображение вопросов на странице
```

```
QuestionSS1_TextBox.Text = Session("SSQuestion1")
```

```
QuestionSS2_TextBox.Text = Session("SSQuestion2")
```

```
End If
```

```
Else
```

```
' Перенаправление на страницу неавторизованных пользователей
```

```
Master.ClearSessionVariables()
```

```
Response.Redirect("Default.aspx")
```

```
End If
```

```
End Sub
```

```
Protected Sub Help_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Help_Button.Click
```

```
Info_Literal.Text = Resources.Resource.HelpSelfServiceIdentification
```

```

    Info_ModalPopupExtender.Show()
End Sub

Protected Sub Back_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Back_Button.Click
    Master.ClearSessionVariables()
    Response.Redirect("Default.aspx")
End Sub

Protected Sub Next_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Next_Button.Click
    ' Проверка, что поле учетной записи заполнено, и, что сервис активирован для пользователя
    If AnswerSS1_TextBox.Text.ToUpper = Session("SSAnswer1").ToString.ToUpper And
        AnswerSS2_TextBox.Text.ToUpper = Session("SSAnswer2").ToString.ToUpper Then
        ' Получение свойств учетной записи
        Master.FillSSUserAccountProperties(Session("SSUserAccount"))
        ' Отправка письма, что совершен вход в сервис самообслуживания
        Master.SendNotification(Session("SSUserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader,
Resources.Resource.NotificationSSLoginSuccess & "<br />" & Session("SSIPdetection"), Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))
        ' Переход на страницу действий
        Response.Redirect("SelfServiceActions.aspx")
    Else
        ' Отправка письма, что произошла ошибка при входе в сервис самообслуживания
        Master.SendNotification(Session("SSUserMail"), Session("ExchangeSenderEMail"), Resources.Resource.NotificationHeader,
Resources.Resource.NotificationSSLoginFailed & "<br />" & Session("SSIPdetection"), Session("ExchangeServerName"), Session("ExchangeServerSMTPPort"))
        Info_Literal.Text = Resources.Resource.ErrorWrongAnswers
        Info_ModalPopupExtender.Show()
    End If
End Sub

' Смена языка элементов страницы
Protected Sub ChangeLanguage()
    ' Проверка, что предпочитаемый язык задан
    If Session("CurrentCulture") <> "" Then
        ' Установка предпочитаемого языка как текущего
        Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
        ' Смена теста объектов
        SSIdentification_Literal.Text = Resources.Resource.PageSSIdentification
        ServiceDescriptionSSLogin_Literal.Text = Resources.Resource.DescriptionSSIdentification
        SecretQuestionSS_Literal.Text = Resources.Resource.PageSecretQuestion
        YourAnswerSS_Literal.Text = Resources.Resource.PageAnswer
        Help_Button.Text = Resources.Resource.ButtonHelp
        Back_Button.Text = Resources.Resource.ButtonBack
        Next_Button.Text = Resources.Resource.ButtonNext

    End If
End Sub

End Class

```


SelfServiceLogin.aspx

```
<%@ Page Title="" Language="VB" MasterPageFile="~/ProjectMasterPage.master" AutoEventWireup="false" CodeFile="SelfServiceLogin.aspx.vb"
    Inherits="SelfServiceLogin" %>

<%@ MasterType VirtualPath="~/ProjectMasterPage.master" %>
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>

<asp:Content ID="Content1" ContentPlaceHolderID="Title_ContentPlaceHolder" Runat="Server">
    <title>User Indentification Service - Self-service login</title>
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="Language_ContentPlaceHolder" Runat="Server">
</asp:Content>

<asp:Content ID="Content3" ContentPlaceHolderID="ServiceName_ContentPlaceHolder" Runat="Server">
    User Indentification Service
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="PageContent_ContentPlaceHolder" Runat="Server">
    <asp:Panel ID="WorkZone_Panel" runat="server" CssClass="WorkZone">
        <div style="text-align:center; height: 350px;">
            <table style="height: 100%;">
                <tr>
                    <td style="vertical-align: middle;">
                        <h3><asp:Literal ID="SSLogin_Literal" runat="server" Text="<%"$ Resources: Resource, PageSSLogin %>" /></h3>
                        <p style="max-width: 450px;"><asp:Literal ID="ServiceDescriptionSSLogin_Literal" runat="server" Text="<%"$ Resources: Resource,
DescriptionSSLogin %>" /></p>
                        <table>
                            <tr>
                                <td><asp:Literal ID="UserAccount_Literal" runat="server" Text="<%"$ Resources: Resource, PageUserAccount %>" /></td>
                                <td><asp:TextBox ID="UserAccount_TextBox" runat="server" Width="390px" CssClass="TextBox"
AutoCompleteType="Disabled"/></td>
                            </tr>
                            <tr>
                                <td><asp:Literal ID="Location_Literal" runat="server" Text="<%"$ Resources: Resource, PageLocation %>" /></td>
                                <td><asp:DropDownList ID="Location_DropDownList" runat="server" Width="400px" CssClass="DropDownList"/></td>
                            </tr>
                        </table>
                    </td>
                </tr>
            </table>
        </div>
    </asp:Panel>
</asp:Content>

<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceHolder" Runat="Server">
```

```
<div style="float: left; font-size: smaller; color: White;"><asp:Label ID="IPDetection_Label" runat="server" Text="" /></div>
```

```
<asp:Button ID="Help_Button" runat="server" Text="<%$ Resources: Resource, ButtonHelp %>" CssClass="Button" />
```

```
<asp:Button ID="Back_Button" runat="server" Text="<%$ Resources: Resource, ButtonBack %>" CssClass="Button" />
```

```
<asp:Button ID="Next_Button" runat="server" Text="<%$ Resources: Resource, ButtonNext %>" CssClass="Button" />
```

```
<ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"
```

```
  PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
```

```
</ajaxToolkit:ModalPopupExtender>
```

```
<asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
```

```
  <div><asp:Literal ID="Info_Literal" runat="server" Text="<%$ Resources: Resource, HelpSelfServiceLogin %>"></asp:Literal></div>
```

```
  <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
```

```
  <asp:HiddenField ID="Info_HiddenField" runat="server" />
```

```
</asp:Panel>
```

```
</asp:Content>
```

SelfServiceLogin.aspx.vb

```
Partial Class SelfServiceLogin
    Inherits System.Web.UI.Page
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        Dim mClientIPAddress As Net.IPAddress
        Dim mNetworkStructure As Generic.List(Of MYCOMPANYMasterPage.NetworkStructure)
        ChangeLanguage()
        ' Проверка, что настройки портала считаны
        If (Not Session("SQLServerName") Is Nothing) Then
            If Page.IsPostBack = False Then
                mClientIPAddress = Master.GetIPAddress
                mNetworkStructure = Master.ReadNetworkStructureXML("NetworkStructure.xml")
                For Each currentSubnet As MYCOMPANYMasterPage.NetworkStructure In mNetworkStructure
                    Location_DropDownList.Items.Add(currentSubnet.Description & ", DC: " & currentSubnet.DomainController)
                    Dim mSuggestedClientSubnet As String
                    mSuggestedClientSubnet = Master.NumToIp(Master.IPnetAsNum(Master.IPtoNum(mClientIPAddress),
Master.MaskFromCidr(currentSubnet.CIDR)))
                    If currentSubnet.IPAddress = mSuggestedClientSubnet Then
                        Location_DropDownList.SelectedValue = currentSubnet.Description & ", DC: " & currentSubnet.DomainController
                        IPDetection_Label.Text = "IP: " & mClientIPAddress.ToString & ", NetID: " & mSuggestedClientSubnet & "/" & currentSubnet.CIDR
& ", DC: " & currentSubnet.DomainController
                        End If
                    Next
                    If IPDetection_Label.Text = "" Then
                        IPDetection_Label.Text = "IP: " & mClientIPAddress.ToString & ", NetID: Unknown, DC: The master"
                        Location_DropDownList.SelectedValue = "Unknown"
                    End If
                    Session.Add("SSIPDetection", IPDetection_Label.Text)
                End If
            Else
                ' Перенаправление на страницу неавторизованных пользователей
                Master.ClearSessionVariables()
                Response.Redirect("Default.aspx")
            End If
        End Sub

    Protected Sub Help_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Help_Button.Click
        Info_Literal.Text = Resources.Resource.HelpSelfServiceLogin
        Info_ModalPopupExtender.Show()
    End Sub

    Protected Sub Back_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Back_Button.Click
        Master.ClearSessionVariables()
        Response.Redirect("Default.aspx")
    End Sub
```

```

Protected Sub Next_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Next_Button.Click
    ' Проверка, что поле учетной записи заполнено, и, что сервис активирован для пользователя
    If (UserAccount_TextBox.Text <> "") AndAlso
        (Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"), Session("SQLUserPassword"), "SELECT *
FROM qas WHERE qasAccount = '" & UserAccount_TextBox.Text.ToUpper & "'").Rows.Count > 0) Then
        Session.Add("SSUserAccount", UserAccount_TextBox.Text.ToUpper)
        Session.Add("SSDomainController", Mid(Location_DropDownList.SelectedItem.Value, InStr(Location_DropDownList.SelectedItem.Value, ", DC: "))
+ 6))
        Response.Redirect("SelfServiceIdentification.aspx")
    Else
        ' Для введенной учетной записи сервис не активирован
        Info_Literal.Text = Resources.Resource.ErrorSSIsNotActivated
        Info_ModalPopupExtender.Show()
    End If
End Sub

' Смена языка элементов страницы
Protected Sub ChangeLanguage()
    ' Проверка, что предпочитаемый язык задан
    If Session("CurrentCulture") <> "" Then
        ' Установка предпочитаемого языка как текущего
        Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
        ' Смена теста объектов

        SSLogin_Literal.Text = Resources.Resource.PageSSLogin
        ServiceDescriptionSSLogin_Literal.Text = Resources.Resource.DescriptionSSLogin
        UserAccount_Literal.Text = Resources.Resource.PageUserAccount
        Location_Literal.Text = Resources.Resource.PageLocation

        Help_Button.Text = Resources.Resource.ButtonHelp
        Back_Button.Text = Resources.Resource.ButtonBack
        Next_Button.Text = Resources.Resource.ButtonNext
    End If
End Sub

End Class

```

SupportCenterActions.aspx

```
<%@ Page Title="" Language="VB" MasterPageFile="~/ProjectMasterPage.master" AutoEventWireup="false" CodeFile="SupportCenterActions.aspx.vb"
    Inherits="SupportCenterActions" %>

<%@ MasterType VirtualPath="~/ProjectMasterPage.master" %>
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>

<asp:Content ID="Content1" ContentPlaceHolderID="Title_ContentPlaceHolder" Runat="Server">
    <title>User Indentification Service - Support center actions</title>
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="Language_ContentPlaceHolder" Runat="Server">
</asp:Content>

<asp:Content ID="Content3" ContentPlaceHolderID="ServiceName_ContentPlaceHolder" Runat="Server">
    User Indentification Service
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="PageContent_ContentPlaceHolder" Runat="Server">
    <asp:Panel ID="WorkZone_Panel" runat="server" CssClass="WorkZone">
        <div style="text-align:center; height: 350px;">
            <table style="height: 100%;" align="center">
                <tr>
                    <td style="vertical-align: middle;">
                        <h3>Users identification</h3>
                        <p style="max-width: 490px;"><asp:Literal ID="ServiceDescriptionSSLogin_Literal" runat="server" Text="<%$ Resources: Resource,
DescriptionSCA %>" /></p>
                        <table style="text-align: left;" align="center">
                            <tr>
                                <td><asp:Literal ID="UserAccount_Literal" runat="server" Text="<%$ Resources: Resource, PageUserAccount %>" /></td>
                                <td><asp:TextBox ID="UserAccount_TextBox" runat="server" Width="390px" CssClass="TextBox"
AutoCompleteType="Disabled"/></td>
                            </tr>
                            <tr>
                                <td colspan="2" style="text-align: right;"><asp:Button ID="Check_Button" runat="server" Text="<%$ Resources: Resource,
ButtonCheck %>" CssClass="Button" /></td>
                            </tr>
                            <tr>
                                <td><asp:Literal ID="Question_Literal" runat="server" Text="<%$ Resources: Resource, PageSecretQuestion %>" /></td>
                                <td><asp:TextBox ID="Question_TextBox" runat="server" Width="390px" CssClass="TextBox" AutoCompleteType="Disabled"
Enabled="false"/></td>
                            </tr>
                            <tr>
                                <td><asp:Literal ID="Answer_Literal" runat="server" Text="<%$ Resources: Resource, PageUserAnswer %>" /></td>
                                <td><asp:TextBox ID="Answer_TextBox" runat="server" Width="390px" CssClass="TextBox" AutoCompleteType="Disabled"
Enabled="false"/></td>
                            </tr>
                        </table>
                    </td>
                </tr>
            </table>
        </div>
    </asp:Panel>
</asp:Content>
```

```

        </table>
        <h3>Actions (will be developed if necessary)</h3>
        <p style="max-width: 450px;">Properties</p>
        <p style="max-width: 450px;">Membership</p>
        <p style="max-width: 450px;">Unlock</p>
        <p style="max-width: 450px;">Change password</p>
    </td>
</tr>
</table>
</div>
</asp:Panel>
</asp:Content>

<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceHolder" Runat="Server">

    <asp:Button ID="LogOut_Button" runat="server" Text="<%"$ Resources: Resource, ButtonLogout %>" CssClass="Button" />

    <ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"
        PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
    </ajaxToolkit:ModalPopupExtender>
    <asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
        <div><asp:Literal ID="Info_Literal" runat="server" Text="<%"$ Resources: Resource, HelpSelfServiceLogin %>"></asp:Literal></div>
        <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
        <asp:HiddenField ID="Info_HiddenField" runat="server" />
    </asp:Panel>

</asp:Content>

```

SupportCenterActions.aspx.vb

```
Partial Class SupportCenterActions
```

```
    Inherits System.Web.UI.Page
```

```
    Private mWebPageClass As New System.Web.UI.Page
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
```

```
        Dim mCurrentAccount As String
```

```
        If Page.IsPostBack = False Then
```

```
            Master.ReadConfigurationXML("Configuration.xml")
```

```
            Master.ReadQuestionsXML("Questions.xml")
```

```
            Session.Add("SupportCenterMembers", Master.GetUsersOfGroup(Session("SupportCenterGroup"), 0, Session("DomainController")))
```

```
            mCurrentAccount = UCase(Mid(mWebPageClass.User.Identity.Name, InStr(mWebPageClass.User.Identity.Name, "\") + 1,
```

```
Len(mWebPageClass.User.Identity.Name) - InStr(mWebPageClass.User.Identity.Name, "\"))
```

```
            Master.FillUserAccountProperties(mCurrentAccount)
```

```
        End If
```

```
        ChangeLanguage()
```

```
        ' Проверка, что настройки портала считаны
```

```
        If (Not Session("SQLServerName") Is Nothing) And
```

```
            (Master.BelongToArray(Session("UserDistinguishedName"), Session("SupportCenterMembers")) = True) Then
```

```
            If Page.IsPostBack = False Then
```

```
                End If
```

```
            Else
```

```
                ' Перенаправление на страницу неавторизованных пользователей
```

```
                Master.ClearSessionVariables()
```

```
                Response.Redirect("Default.aspx")
```

```
            End If
```

```
    End Sub
```

```
    Protected Sub Check_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Check_Button.Click
```

```
        Dim mTempTable As Data.DataTable
```

```
        If (UserAccount_TextBox.Text <> "") Then
```

```
            mTempTable = Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"), Session("SQLUserPassword"),  
"SELECT * FROM qa WHERE qaAccount = '" & UserAccount_TextBox.Text.ToUpper & "'")
```

```
            If mTempTable.Rows.Count > 0 Then
```

```
                Question_TextBox.Text = mTempTable.Rows(0).Item("qaQuestion")
```

```
                Answer_TextBox.Text = mTempTable.Rows(0).Item("qaAnswer")
```

```
            Else
```

```
                ' Пользователь не активировал сервис
```

```
                Info_Literal.Text = Resources.Resource.ErrorSCIsNotActivated
```

```
                Info_ModalPopupExtender.Show()
```

```
            End If
```

```
        Else
```

```
            ' Учетная запись не введена
```

```
            Info_Literal.Text = Resources.Resource.ErrorAccountIsEmpty
```

```
            Info_ModalPopupExtender.Show()
```

```
End If
```

```
End Sub
```

```
' Смена языка элементов страницы
```

```
Protected Sub ChangeLanguage()
```

```
' Проверка, что предпочитаемый язык задан
```

```
If Session("CurrentCulture") <> "" Then
```

```
' Установка предпочитаемого языка как текущего
```

```
Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
```

```
' Смена теста объектов
```

```
ServiceDescriptionSSLogin_Literal.Text = Resources.Resource.DescriptionSCA
```

```
UserAccount_Literal.Text = Resources.Resource.PageUserAccount
```

```
Check_Button.Text = Resources.Resource.ButtonCheck
```

```
Question_Literal.Text = Resources.Resource.PageSecretQuestion
```

```
Answer_Literal.Text = Resources.Resource.PageUserAnswer
```

```
LogOut_Button.Text = Resources.Resource.ButtonLogOut
```

```
Info_Literal.Text = Resources.Resource.HelpSelfServiceLogin
```

```
End If
```

```
End Sub
```

```
Protected Sub LogOut_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles LogOut_Button.Click
```

```
Master.ClearSessionVariables()
```

```
Response.Redirect("Default.aspx")
```

```
End Sub
```

```
End Class
```


UserProperties.aspx

```
<%@ Page Title="" Language="VB" MasterPageFile="~/ProjectMasterPage.master" AutoEventWireup="false" CodeFile="UserProperties.aspx.vb"
    Inherits="UserProperties" %>

<%@ MasterType VirtualPath="~/ProjectMasterPage.master" %>
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit" TagPrefix="ajaxToolkit" %>

<asp:Content ID="Content1" ContentPlaceHolderID="Title_ContentPlaceHolder" Runat="Server">
    <title>User Indentification Service - Account properties</title>
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="Language_ContentPlaceHolder" Runat="Server">
</asp:Content>

<asp:Content ID="Content3" ContentPlaceHolderID="ServiceName_ContentPlaceHolder" Runat="Server">
    User Indentification Service
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="PageContent_ContentPlaceHolder" Runat="Server">
    <asp:Panel ID="WorkZone_Panel" runat="server" CssClass="WorkZone">
        <div style="text-align: center;">
            <div style="max-width: 900px;">
                <h2><asp:Label ID="Welcome_Label" runat="server" Text="" /></h2>
                <div style="float: left; margin: 10px; min-width: 200px; max-width: 330px;">
                    <h3 style="text-align: left;"><asp:Label ID="Password_Label" runat="server" Text="<%$ Resources: Resource, PagePassword %>"
/></h3>
                    <table style="text-align:left; width: 100%;" align="center">
                        <tr>
                            <td><asp:Literal ID="PasswordChanged_Literal" runat="server" Text="<%$ Resources: Resource, PagePasswordChanged %>"
/></td>
                            <td style=" width:70px;"><asp:Label ID="PasswordChanged_Label" runat="server" Text="" /></td>
                        </tr>
                        <tr>
                            <td><asp:Literal ID="PasswordExpires_Literal" runat="server" Text="<%$ Resources: Resource, PagePasswordExpires %>"
/></td>
                            <td><asp:Label ID="PasswordExpires_Label" runat="server" Text="" /></td>
                        </tr>
                        <tr>
                            <td><asp:Literal ID="CanChangePassword_Literal" runat="server" Text="<%$ Resources: Resource, PageCanChangePassword %>"
/></td>
                            <td><asp:Label ID="CanChangePassword_Label" runat="server" Text="" /></td>
                        </tr>
                        <tr>
                            <td><asp:Literal ID="Locked_Literal" runat="server" Text="<%$ Resources: Resource, PageLocked %>" /></td>
                            <td><asp:Label ID="Locked_Label" runat="server" Text="" /></td>
                        </tr>
                    </table>
                </div>
            </div>
        </div>
    </asp:Panel>
</asp:Content>
```

```

        <td><asp:Literal ID="AccountExpires_Literal" runat="server" Text="<%$ Resources: Resource, PageAccountExpires %>" /></td>
        <td><asp:Label ID="AccountExpires_Label" runat="server" Text="" /></td>
    </tr>
    <tr>
        <td><asp:Literal ID="ShownInAddressBook_Literal" runat="server" Text="<%$ Resources: Resource, PageShownInAddressBook %>"
/></td>
        <td><asp:Label ID="ShownInAddressBook_Label" runat="server" Text="" /></td>
    </tr>
</table>
<h3 style="text-align: left; "><asp:Label ID="Service_Label" runat="server" Text="<%$ Resources: Resource, PageService %>" /></h3>
<table style="text-align:left; width: 100%; align="center">
    <tr>
        <td><asp:Literal ID="SecretServiceSCIsActivated_Literal" runat="server" Text="<%$ Resources: Resource,
PageServiceSCIsActivated %>" /></td>
        <td style=" width:70px;"><asp:Label ID="SecretServiceSCIsActivated_Label" runat="server" Text="" /></td>
    </tr>
    <tr>
        <td><asp:Literal ID="SecretServiceSSIsActivated_Literal" runat="server" Text="<%$ Resources: Resource,
PageServiceSSIsActivated %>" /></td>
        <td><asp:Label ID="SecretServiceSSIsActivated_Label" runat="server" Text="" /></td>
    </tr>
    <tr>
        <td colspan="2" style="text-align: right;"><asp:Button ID="SecretService_Button" runat="server" Text="<%$ Resources:
Resource, ButtonChangeState %>" CssClass="Button" style="width: 100px;" /></td>
    </tr>
</table>
</div>
<div style="float: right; margin: 10px;">
    <h3 style="text-align: left;"><asp:Literal ID="General_Literal" runat="server" Text="<%$ Resources: Resource, PageGeneral %>"
/></h3>
    <table style="text-align:left;" align="center">
        <tr>
            <td style="width:140px;"><asp:Literal ID="DisplayName_Literal" runat="server" Text="<%$ Resources: Resource,
PageDisplayName %>" /></td>
            <td><asp:TextBox ID="DisplayName_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
        </tr>
        <tr>
            <td><asp:Literal ID="EMail_Literal" runat="server" Text="<%$ Resources: Resource, PageEMail %>" /></td>
            <td><asp:TextBox ID="EMail_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
        </tr>
        <tr>
            <td><asp:Literal ID="Description_Literal" runat="server" Text="<%$ Resources: Resource, PageDescription %>" /></td>
            <td><asp:TextBox ID="Description_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
        </tr>
    </table>

```

```
<h3 style="text-align: left;"><asp:Literal ID="Phones_Literal" runat="server" Text="<%$ Resources: Resource, PagePhones %>"
/></h3>
<table style="text-align:left;" align="center">
  <tr>
    <td style="width:140px;"><asp:Literal ID="OfficePhone_Literal" runat="server" Text="<%$ Resources: Resource,
PageOfficePhone %>" /></td>
    <td><asp:TextBox ID="OfficePhone_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled" /></td>
  </tr>
  <tr>
    <td><asp:Literal ID="MobilePhone_Literal" runat="server" Text="<%$ Resources: Resource, PageMobilePhone %>" /></td>
    <td><asp:TextBox ID="MobilePhone_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled" /></td>
  </tr>
  <tr>
    <td><asp:Literal ID="OtherPhone_Literal" runat="server" Text="<%$ Resources: Resource, PageOtherPhone %>" /></td>
    <td><asp:TextBox ID="OtherPhone_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
  </tr>
</table>
<h3 style="text-align: left;"><asp:Literal ID="Office_Literal" runat="server" Text="<%$ Resources: Resource, PageOffice %>"
/></h3>
<table style="text-align:left;" align="center">
  <tr>
    <td style="width:140px;"><asp:Literal ID="Title_Literal" runat="server" Text="<%$ Resources: Resource, PageTitle %>"
/></td>
    <td><asp:TextBox ID="Title_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
  </tr>
  <tr>
    <td><asp:Literal ID="Department_Literal" runat="server" Text="<%$ Resources: Resource, PageDepartment %>" /></td>
    <td><asp:TextBox ID="Department_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
  </tr>
  <tr>
    <td><asp:Literal ID="Company_Literal" runat="server" Text="<%$ Resources: Resource, PageCompany %>" /></td>
    <td><asp:TextBox ID="Company_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
  </tr>
  <tr>
    <td><asp:Literal ID="City_Literal" runat="server" Text="<%$ Resources: Resource, PageCity %>" /></td>
    <td><asp:TextBox ID="City_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
  </tr>
  <tr>
    <td><asp:Literal ID="Country_Literal" runat="server" Text="<%$ Resources: Resource, PageCountry %>" /></td>
    <td><asp:TextBox ID="Country_TextBox" runat="server" Width="350px" CssClass="TextBox" Enabled="false"
AutoCompleteType="Disabled"/></td>
  </tr>
</table>
```

```
        </tr>
    </table>
</div>
</div>
<div style="clear: both;">&nbsp;</div>
</div>
</asp:Panel>
</asp:Content>
```

```
<asp:Content ID="Content5" ContentPlaceHolderID="Footer_ContentPlaceHolder" Runat="Server">
```

```
<asp:Button ID="SCA_Button" runat="server" Text="<%$ Resources: Resource, ButtonSupportCenter %>" CssClass="Button" Visible="False" />
<asp:Button ID="Help_Button" runat="server" Text="<%$ Resources: Resource, ButtonHelp %>" CssClass="Button" />
<asp:Button ID="LogOut_Button" runat="server" Text="<%$ Resources: Resource, ButtonLogOut %>" CssClass="Button" />
```

```
<ajaxToolkit:ModalPopupExtender ID="Info_ModalPopupExtender" TargetControlID="Info_HiddenField"
    PopupControlID="Info_Panel" OkControlID="InfoOk_Button" DropShadow="true" runat="server">
</ajaxToolkit:ModalPopupExtender>
```

```
<asp:Panel ID="Info_Panel" CssClass="InfoPanel" runat="server" >
    <div><asp:Literal ID="Info_Literal" runat="server" Text="<%$ Resources: Resource, HelpUserProperties %>"></asp:Literal></div>
    <asp:Button ID="InfoOk_Button" CssClass="Button" style="margin: 10px;" runat="server" Text="OK" />
    <asp:HiddenField ID="Info_HiddenField" runat="server" />
</asp:Panel>
```

```
</asp:Content>
```

UserProperties.aspx.vb

```
Partial Class UserProperties
```

```
    Inherits System.Web.UI.Page
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
```

```
        Dim mTempTable As Data.DataTable
```

```
        ' Смена языка страницы
```

```
        ChangeLanguage()
```

```
        ' Проверка, что настройки портала считаны и, что авторизация пройдена
```

```
        If (Not Session("SQLServerName") Is Nothing) AndAlso
```

```
            (Not Session("UserAccount") Is Nothing) Then
```

```
            If Page.IsPostBack = False Then
```

```
                ' Заполнение полей таблицы свойств пользователя
```

```
                Welcome_Label.Text = Resources.Resource.PageWelcome & ", " & Session("UserName")
```

```
                DisplayName_TextBox.Text = Session("UserDisplayName")
```

```
                EMail_TextBox.Text = Session("UserMail")
```

```
                Description_TextBox.Text = Session("UserDescription")
```

```
                OfficePhone_TextBox.Text = Session("UserTelephoneNumber")
```

```
                MobilePhone_TextBox.Text = Session("UserMobilePhone")
```

```
                OtherPhone_TextBox.Text = Session("UserOtherTelephone")
```

```
                Title_TextBox.Text = Session("UserTitle")
```

```
                Department_TextBox.Text = Session("UserDepartment")
```

```
                Company_TextBox.Text = Session("UserCompany")
```

```
                City_TextBox.Text = Session("UserCity")
```

```
                Country_TextBox.Text = Session("UserCountry")
```

```
                PasswordChanged_Label.Text = Format(CDate(Session("UserPasswordLastSet")), "dd.MM.yyyy")
```

```
                If Session("UserPasswordNeverExpires") = True Then
```

```
                    PasswordExpires_Label.Text = Resources.Resource.PageNever
```

```
                Else
```

```
                    PasswordExpires_Label.Text = Format(CDate(Session("UserPasswordLastSet")).AddDays(90), "dd.MM.yyyy")
```

```
                End If
```

```
                If Session("UserCanNotChangePassword") = True Then
```

```
                    CanChangePassword_Label.Text = Resources.Resource.PageNo
```

```
                Else
```

```
                    CanChangePassword_Label.Text = Resources.Resource.PageYes
```

```
                End If
```

```
                If Session("UserLocked") = True Then
```

```
                    Locked_Label.Text = Resources.Resource.PageYes
```

```
                Else
```

```
                    Locked_Label.Text = Resources.Resource.PageNo
```

```
                End If
```

```
                If Session("UserAccountExpires") Is Nothing Then
```

```
                    AccountExpires_Label.Text = Resources.Resource.PageNever
```

```
                Else
```

```
                    AccountExpires_Label.Text = Format(CDate(Session("UserAccountExpires")), "dd.MM.yyyy")
```

```
                End If
```

```
                If Session("UserHideFromAddressLists") = True Then
```

```

        ShownInAddressBook_Label.Text = Resources.Resource.PageNo
    Else
        ShownInAddressBook_Label.Text = Resources.Resource.PageYes
    End If
    mTempTable = Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
Session("SQLUserPassword"), "SELECT * FROM qa WHERE qaAccount = '" & Session("UserAccount") & "'")
    If mTempTable.Rows.Count = 0 Then
        SecretServiceSCIsActivated_Label.Text = Resources.Resource.PageNo
    Else
        SecretServiceSCIsActivated_Label.Text = Resources.Resource.PageYes
    End If
    mTempTable = Master.GetSQLTable(Session("SQLServerName"), Session("SQLDatabaseName"), Session("SQLUserName"),
Session("SQLUserPassword"), "SELECT * FROM qas WHERE qasAccount = '" & Session("UserAccount") & "'")
    If mTempTable.Rows.Count = 0 Then
        SecretServiceSSIsActivated_Label.Text = Resources.Resource.PageNo
    Else
        SecretServiceSSIsActivated_Label.Text = Resources.Resource.PageYes
    End If
    If Master.BelongToArray(Session("UserDistinguishedName"), Session("SupportCenterMembers")) = True Then
        SCA_Button.Visible = True
    Else
        SCA_Button.Visible = False
    End If
End If
Else
    ' Перенаправление на страницу неавторизованных пользователей
    Master.ClearSessionVariables()
    Response.Redirect("Default.aspx")
End If
End Sub

Protected Sub SecretService_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles SecretService_Button.Click
    Response.Redirect("SecretQuestions.aspx")
End Sub

Protected Sub LogOut_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles LogOut_Button.Click
    Master.ClearSessionVariables()
    Response.Redirect("Default.aspx")
End Sub

' Смена языка элементов страницы
Protected Sub ChangeLanguage()
    ' Проверка, что предпочитаемый язык задан
    If Session("CurrentCulture") <> "" Then
        ' Установка предпочитаемого языка как текущего
        Threading.Thread.CurrentThread.CurrentUICulture = Globalization.CultureInfo.GetCultureInfo(Session("CurrentCulture").ToString)
        ' Смена теста объектов
    End If
End Sub

```

```
Password_Label.Text = Resources.Resource.PagePassword
PasswordChanged_Literal.Text = Resources.Resource.PagePasswordChanged
PasswordExpires_Literal.Text = Resources.Resource.PagePasswordExpires
CanChangePassword_Literal.Text = Resources.Resource.PageCanChangePassword
Locked_Literal.Text = Resources.Resource.PageLocked
AccountExpires_Literal.Text = Resources.Resource.PageAccountExpires
ShownInAddressBook_Literal.Text = Resources.Resource.PageShownInAddressBook
```

```
Service_Label.Text = Resources.Resource.PageService
SecretServiceSCIsActivated_Literal.Text = Resources.Resource.PageServiceSCIsActivated
SecretServiceSSIsActivated_Literal.Text = Resources.Resource.PageServiceSSIsActivated
SecretService_Button.Text = Resources.Resource.ButtonChangeState
```

```
General_Literal.Text = Resources.Resource.PageGeneral
DisplayName_Literal.Text = Resources.Resource.PageDisplayName
EMail_Literal.Text = Resources.Resource.PageEMail
Description_Literal.Text = Resources.Resource.PageDescription
```

```
Phones_Literal.Text = Resources.Resource.PagePhones
OfficePhone_Literal.Text = Resources.Resource.PageOfficePhone
MobilePhone_Literal.Text = Resources.Resource.PageMobilePhone
OtherPhone_Literal.Text = Resources.Resource.PageOtherPhone
```

```
Office_Literal.Text = Resources.Resource.PageOffice
Title_Literal.Text = Resources.Resource.PageTitle
Department_Literal.Text = Resources.Resource.PageDepartment
Company_Literal.Text = Resources.Resource.PageCompany
City_Literal.Text = Resources.Resource.PageCity
Country_Literal.Text = Resources.Resource.PageCountry
```

```
SCA_Button.Text = Resources.Resource.ButtonSupportCenter
Help_Button.Text = Resources.Resource.ButtonHelp
LogOut_Button.Text = Resources.Resource.ButtonLogOut
Info_Literal.Text = Resources.Resource.HelpUserProperties
```

```
End If
```

```
End Sub
```

```
Protected Sub Help_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Help_Button.Click
    Info_Literal.Text = Resources.Resource.HelpUserProperties
    Info_ModalPopupExtender.Show()
End Sub
```

```
Protected Sub SCA_Button_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles SCA_Button.Click
    Response.Redirect("SupportCenterActions.aspx")
End Sub
```

```
End Sub
```

```
End Class
```

Configuration.xml

```
<?xml version="1.0" encoding="utf-8"?>
<Configuration>
  <WebSite>
    <DomainName>domain.com</DomainName>
    <DomainDistinguishedName>DC=domain,DC=com</DomainDistinguishedName>
    <Pre2000DomainName>MY_DOMAIN</Pre2000DomainName>
    <DomainController>dc.domain.com</DomainController>
    <SQLServerName>sqlserver.domain.com</SQLServerName>
    <SQLDatabaseName>UserIndentification</SQLDatabaseName>
    <SQLUserName>UserIndentification_SA</SQLUserName>
    <SQLUserPassword>*****</SQLUserPassword>
    <ExchangeSenderEMail>noreply-UserIndentification@domain.com</ExchangeSenderEMail>
    <ExchangeServerName>mail.domain.com</ExchangeServerName>
    <ExchangeServerSMTPPort>25</ExchangeServerSMTPPort>
    <MinPasswordLength>6</MinPasswordLength>
    <EncryptionPassword>*****</EncryptionPassword>
    <SupportCenterGroup>CN=Support Center Users,OU=Users,DC=domain,DC=com</SupportCenterGroup>
  </WebSite>
</Configuration>
```


NetworkStructure.cmd

```
powershell.exe "%~DP0NetworkStructure.ps1"
```

NetworkStructure.ps1

```
# Get the script folder
$ScriptPath = $MyInvocation.MyCommand.Path
$ScriptFolder = Split-Path $scriptpath

# Get sites from AD
$Sites = [System.DirectoryServices.ActiveDirectory.Forest]::GetCurrentForest().Sites
$SitesX = @()
ForEach ($Site in $Sites) {
    $SitesX += New-Object -Type PSObject -Property (
        @{
            "SiteName" = $site.Name
            "DomainController" = $Site.Servers[0].Name
        }
    )
}

# Get subnets from AD and insert DCs into the subnets table
$SitesAndSubnets = @()
$Subnets = [ADSI]"LDAP://CN=Subnets,CN=Sites,CN=Configuration,DC=domain,DC=com"
ForEach ($CurrentSubnet in $Subnets.children) {
    $Network = [ADSI]"${$CurrentSubnet.Path}"
    $st = $($Network.siteobject).split(",")
    $SiteName = $st[0].Replace("CN=", "")
    ForEach ($CurrentSite in $SitesX) {
        If ($CurrentSite.SiteName -eq $SiteName) {
            $DomainController = $CurrentSite.DomainController
        }
    }
    $SitesAndSubnets += New-Object -Type PSObject -Property (
        @{
            "IPAddress" = $($Network.cn)
            "Site" = $SiteName
            "DomainController" = $DomainController
            "Description" = $($Network.description)
        }
    )
}

# Remove lines without Description or DC
$SitesAndSubnetsFinal = @()
ForEach ($CurrentSitesAndSubnet in $SitesAndSubnets) {
    If (($CurrentSitesAndSubnet.DomainController -ne $Nothing) -and `
        ($CurrentSitesAndSubnet.Description -ne $Nothing)) {
        $SitesAndSubnetsFinal += $CurrentSitesAndSubnet
    }
}
```

```

# Sort the table by Description
$SitesAndSubnetsFinal = $SitesAndSubnetsFinal | Sort-Object -Property "Description"

# Save result to XML-file
$OutputFilePath = $ScriptFolder + "\NetworkStructure.xml"
$xmlWriter = New-Object System.XML.XmlTextWriter($OutputFilePath,$Null)
# Set The Formatting
$xmlWriter.Formatting = "Indented"
$xmlWriter.Indentation = "4"
# Write the XML Declaration
$xmlWriter.WriteStartDocument()
# Set the XSL
#$XSLPropText = "type='text/xsl' href='style.xsl'"
# $xmlWriter.WriteProcessingInstruction("xml-stylesheet", $XSLPropText)
# Write Root Element
$xmlWriter.WriteStartElement("NetworkStructure")
# Write the Document
$xmlWriter.WriteStartElement("Subnet")
$xmlWriter.WriteElementString("IPAddress", "0.0.0.0/0")
$xmlWriter.WriteElementString("Site", "Unknown")
$xmlWriter.WriteElementString("DomainController", "W8GVB701")
$xmlWriter.WriteElementString("Description", "Unknown")
$xmlWriter.WriteEndElement() # <-- Closing Subnets
ForEach ($CurrentSitesAndSubnetsFinal in $SitesAndSubnetsFinal) {
    $xmlWriter.WriteStartElement("Subnet")
    $xmlWriter.WriteElementString("IPAddress", $CurrentSitesAndSubnetsFinal.IPAddress)
    $xmlWriter.WriteElementString("Site", $CurrentSitesAndSubnetsFinal.Site)
    $xmlWriter.WriteElementString("DomainController", $CurrentSitesAndSubnetsFinal.DomainController)
    $xmlWriter.WriteElementString("Description", $CurrentSitesAndSubnetsFinal.Description)
    $xmlWriter.WriteEndElement() # <-- Closing Subnets
}
# Write Close Tag for Root Element
$xmlWriter.WriteEndElement() # <-- Closing RootElement
# End the XML Document
$xmlWriter.WriteEndDocument()
# Finish The Document
$xmlWriter.Finalize
$xmlWriter.Flush()
$xmlWriter.Close()

```

NetworkStructure.xml

```
<?xml version="1.0"?>
<NetworkStructure>
  <Subnet>
    <IPAddress>0.0.0.0/0</IPAddress>
    <Site>Unknown</Site>
    <DomainController>DCServer1.domain.com</DomainController>
    <Description>Unknown</Description>
  </Subnet>
  <Subnet>
    <IPAddress>10.143.215.0/25</IPAddress>
    <Site>BAL</Site>
    <DomainController> DCServer2.domain.com </DomainController>
    <Description>Balakhna</Description>
  </Subnet>
  <Subnet>
    <IPAddress>10.132.196.64/26</IPAddress>
    <Site>KST</Site>
    <DomainController> DCServer3.domain.com </DomainController>
    <Description>Kstovo</Description>
  </Subnet>
  <Subnet>
    <IPAddress>193.202.67.0/25</IPAddress>
    <Site>BOR</Site>
    <DomainController> DCServer4.domain.com </DomainController>
    <Description>Bor</Description>
  </Subnet>
</NetworkStructure>
```

Questions.xml

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<Questions>
```

```
  <Question>What was your favourite place to visit as a child?</Question>
```

```
  <Question>What is the country of your ultimate dream vacation?</Question>
```

```
  <Question>What was your dream job as a child?</Question>
```

```
  <Question>Who was your childhood hero?</Question>
```

```
</Questions>
```

Resource.resx

ButtonBack	Back
ButtonCancel	Cancel
ButtonChangeState	Change state
ButtonCheck	Check
ButtonHelp	Help
ButtonLogin	Log in
ButtonLogOut	Log out
ButtonNext	Next
ButtonReset	Reset
ButtonSave	Save
ButtonSet	Set
ButtonSupportCenter	Support Center
ButtonUnlock	Unlock
DescriptionDefaultAccount	Show my account properties
DescriptionDefaultUnlock	Access to the service which helps me unlocking my account or resetting my password
DescriptionSC	This section is for identifying you by the support center when you phone there. The answer is not encrypted and the support center can read it. Please fulfill the form and save it to activate the service. Your answer must be longer than 3 letters and in English. If you want to disable this part of the service, reset the form.
DescriptionSCA	To identify a user by phone, type his account in the form, request data from the database and ask the user suggested question (you can translate the question from English to the user's language). If the user's answer matches with the answer in the portal, you can process the request. If the answer is incorrect, finish the conversation and suggest to apply to the local ITPM.
DescriptionSS	This section is for the self-service. The answers are encrypted and nobody can read it except you. Please fulfill the form and save it to activate the service. Questions must be different and your answers must be longer than 3 letters. Please use English in answers. If you want to disable this part of the service, reset the form.
DescriptionSSIdentification	To let the system identificate you, answer to the following questions. You should answer in English and in the exact spelling which you have already answered when you activated the service. If you do not remember the answers, you can't use this service and please change the answers of this self-service as soon as your account is unlocked with another way.
DescriptionSSLogin	To login the self-service you should enter your account, choose the nearest city and push Next. If your city is not detected correctly or is not in the list, then choose "Unknown" location. In this case your account unlocking might take about 30 minutes.
ErrorAccountIsEmpty	Error: account is empty, you must fill in the account field.
ErrorAnswerIsShort	Error: the secret question or answer is too short, it must be longer than 3 letters.
ErrorChangingPassword	Error occurred during changing the password.
ErrorPasswordIsShort	Error: the password is too short.
ErrorPasswordsAreDifferent	Error: the entered passwords are different.
ErrorQuestionIsEmpty	Error: the secret question or answer is empty, it must be set.
ErrorQuestionsAreTheSame	Error: the secret questions are the same, they must be different.
ErrorResettingQA	Error occurred during resetting the secret questions and answers. Please apply to the Support Center.
ErrorSavingQA	Error occurred during saving the secret questions and answers. Please apply to the Support Center.
ErrorSCIsNotActivated	Error: the support center service by phone is not activated for this account. Please forward the user to the local ITPM.
ErrorSSIsNotActivated	Error: the self-service is not activated for this account. Please apply to the Support Center.

ErrorUnlockingAccount	Error occured during unlocking the account.
ErrorWrongAnswers	Error: the answers are wrong.
ErrorWrongCredentials	Error: the entered account and the password are not match.
HelpDefault	<p><div style="text-align: left;"><p>The service "UserIndentification" allows for a self-control of your Windows account.</p> <p>With this service, you can:
 <ul style="list-style-type: none;"> - check the status of your account and its basic properties;
 - set the passphrase for your identification by Support Center MYCOMPANY;
 - unlock your account.</p> <p>To check the status of your account, use the right side of this page. Type your user ID and password that you use to login into the Windows, then click "Sign In." On the next page you will see your account properties as well as a section with passphrase.</p> <p>If you would like to unlock your account, you have to use another computer that is already logged into the MYCOMPANY network, for example, ask your colleague to use his computer. Use the left side of this page to begin the process of your identification.</p></div></p>
HelpSecretQuestions	<p><div style="text-align: left;"><p>This page helps you to configure the self-service and identification for the Support Center MYCOMPANY.</p> <p>The "Support Center secret question" section is used to specify the passphrase for the user authentication when Support Center MYCOMPANY is contacted by phone. Question and answer in this section are stored in a database that can be accessed by Support Center agents. When you call the Support Center MYCOMPANY, agents will try to authenticate you by usage of this question and answer from the database. If the user's answer coincides with the answer from database, request will be accepted and processed. Otherwise, the request will be rejected and forwarded to responsible person for verification.</p> <p>The "Self service secret questions" section is used to specify the passphrase to unlock the account by the self-service. Questions and answers in this section are stored in an encrypted database and no one except you can read the data.</p></div></p>
HelpSelfServiceActions	<p><div style="text-align: left;"><p>This page is used to self-unlock the account or to change your password.</p> <p>If you want to change your password, use the left side of the form, enter new password, confirm it, and click on "Set". New password will be set afterwards.</p> <p>If you just need to unlock your account, you have to use the right side of the form. If the account is locked, the button "Unlock" is available. Click on this button and your account will be unlocked.</p></div></p>
HelpSelfServiceIdentification	<p><div style="text-align: left;"><p>This page is used to identify the user by passphrases.</p> <p>To access the self-service you need to answer two randomly selected questions from an encrypted database. Answers to questions must be the same like during the registration process.</p> <p>If your answers will correspond with answers in the encrypted database, access to the self-service will be granted. Otherwise, the service will offer you to answer two other randomly selected questions.</p></div></p>
HelpSelfServiceLogin	<p><div style="text-align: left;"><p>This page is used to determine the user's location in order to perform the unlocking of the account on the nearest server. If the closest server is not set correctly, then unlocking may take about 30 minutes - time for synchronization between servers. </p> <p>Typically, the service determines the location of the user automatically, however, sometimes it may be required to select a location from the dropdown list. By default, for unknown sites the server W8GVB701 located in Belgium is used. You can see your current IP address, subnet, and the server in the lower left corner of this page.</p> <p>To continue the process of unlocking of your account you need to enter your account ID and click "Next."</p></div></p>
HelpUserProperties	<p><div style="text-align: left;"><p>This page displays the properties of your account.</p> <p>It displays time related information about your account, account status, status of self-service and identification for the Support Center MYCOMPANY, as well as the basic properties of the account taken from Active Directory.</p> <p>Basic information about your account, password, and account expiration is updated automatically after they are updated by Support Center MYCOMPANY, HR or other authorized persons.</p></div></p>
	<p><p>Status of self-service and identification for the Support Center MYCOMPANY can be changed by clicking on button "Change state" in the appropriate section.</p></div></p>

InfoAccountUnlocked	Your account has been unlocked
InfoPasswordChanged	Your password has been changed
NotificationHeader	UserIdentification service notification
NotificationSCStateActivated	This message is to inform you, that the support center service by phone is activated for your account. From now you can phone to the support center. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
NotificationSCStateDeactivated	This message is to inform you, that the support center service by phone is deactivated for your account. From now you can't phone to the support center, because the specialists are not able to identify the requestor. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
NotificationSSLoginFailed	This message is to inform you, that you have incorrectly answered to questions of the self-service section of UserIdentification. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
NotificationSSLoginSuccess	This message is to inform you, that you have successfully logged in the self-service section of UserIdentification. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
NotificationSSPasswordsChanged	This message is to inform you, that you have changed your password via the self-service section of UserIdentification. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
NotificationSSStateActivated	This message is to inform you, that the account self-service is activated for your account. From now you can unlock your account your-selves. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
NotificationSSStateDeactivated	This message is to inform you, that the account self-service is deactivated for your account. From now you can't unlock your account your-selves, because the service is not able to identify the requestor. If you have not done any actions in the UserIdentification portal, please inform your manager and the support center immediately.
PageAccountExpires	Your account expires
PageAccountStatus	Account status
PageAnswer	Your answer
PageCanChangePassword	You can change the password
PageCity	City
PageCompany	Company
PageCountry	Country
PageDepartment	Department
PageDescription	Description
PageDisplayName	Display name
PageEMail	E-mail
PageGeneral	General
PageLocation	Location
PageLocked	Your account is currently locked
PageMobilePhone	Mobile phone
PageNever	Never
PageNewPassword	Your new password
PageNewPasswordConfirm	Confirm your new password
PageNo	No
PageNotActivated	You did not activate the service
PageOffice	Office
PageOfficePhone	Office phone
PageOtherPhone	Other phone

PagePassword	Password
PagePasswordChanged	You changed the password
PagePasswordExpires	Your password expires
PagePhones	Phones
PageSCQuestion	Support center secret question
PageSecretQuestion	Secret question
PageService	Service
PageServiceSCIsActivated	The support center service is activated
PageServiceSSIsActivated	The self-service is activated
PageSetNewPassword	Set a new password
PageShownInAddressBook	Your account is shown in the address book
PageSSIdentification	Self-service identification
PageSSLogin	Self-service login
PageSSQuestion	Self service secret questions
PageTheServicesActivated	The service is activated
PageTheServicesDeactivated	The service is deactivated
PageTitle	Title
PageUnlockAccount	Unlock the account
PageUnlocked	You account is not locked
PageUnlockUserIdentification	Unlock/Reset my account
PageUserAccount	Account
PageUserAnswer	User answer
PageUserIdentification	User identification
PageUserPassword	Password
PageWelcome	Welcome
PageYes	Yes

Resource.ru.resx

ButtonBack	Назад
ButtonCancel	Отмена
ButtonChangeState	Изменить настройки
ButtonCheck	Проверить
ButtonHelp	Справка
ButtonLogin	Войти
ButtonLogOut	Выйти
ButtonNext	Далее
ButtonReset	Сбросить
ButtonSave	Сохранить
ButtonSet	Установить
ButtonSupportCenter	Центр поддержки
ButtonUnlock	Разблокировать
DescriptionDefaultAccount	Показать свойства моей учетной записи
DescriptionDefaultUnlock	Доступ к сервису, который помогает разблокировать мою учетную запись или сбросить мой пароль
DescriptionSC	Этот раздел предназначен для идентификации вас центром поддержки, когда вы туда звоните. Ответ не зашифрован, и центр поддержки может прочитать его. Пожалуйста, заполните форму и сохраните ее для активизации сервиса. Ваш ответ должен быть на английском языке и не менее 3 символов. Если вы хотите отключить эту часть сервиса, сбросьте форму.
DescriptionSCA	Для идентификации пользователя по телефону, введите его учетную запись в форму, запросите данные из базы данных и задайте пользователю вопрос-подсказку (вы можете перевести вопрос с английского на родной язык пользователя). Если ответ пользователя совпадает с ответом в портале, вы можете выполнить запрос. Если не совпадает, завершите разговор и попросите пользователя обратиться к локальному ИТРМ.
DescriptionSS	Этот раздел предназначен для самообслуживания. Ответы зашифрованы, и никто не может прочитать их кроме вас. Пожалуйста, заполните форму и сохраните ее для активизации сервиса. Ответы должны отличаться и быть не менее 3 символов. Пожалуйста, используйте в ответах английский язык. Если вы хотите заблокировать эту часть сервиса, сбросьте форму.
DescriptionSSIdentification	Чтобы позволить системе идентифицировать вас, ответьте на следующие вопросы. Вы должны отвечать на английском языке и точно набирать ответы, на которые вы уже ответили, когда активировали сервис. Если вы не помните ответы, вы не можете использовать этот сервис. Пожалуйста, измените ответы для сервиса самообслуживания, как только ваша учетная запись будет разблокирована другим способом.
DescriptionSSLogin	Чтобы зайти в сервис самообслуживания, вы должны ввести свою учетную запись, выбрать ближайший город и нажать Далее. Если ваш город не обнаруживается правильно, или его нет в списке, выберите расположение "Unkown". В этом случае, разблокировка вашей учетной записи может занять около 30 минут.
ErrorAccountIsEmpty	Ошибка: учетная запись отсутствует, вы должны ввести учетную запись в поле.
ErrorAnswerIsShort	Ошибка: секретный ответ или вопрос слишком короткие, они должны быть не менее 3 символов.
ErrorChangingPassword	Произошла ошибка во время смены пароля
ErrorPasswordIsShort	Ошибка: пароль слишком короткий
ErrorPasswordsAreDifferent	Ошибка: введенные пароли не совпадают
ErrorQuestionIsEmpty	Ошибка: нет секретного ответа или вопроса, необходимо ввести.
ErrorQuestionsAreTheSame	Ошибка: секретные вопросы одинаковые, они должны различаться.
ErrorResettingQA	Произошла ошибка во время смены секретных вопросов или ответов. Пожалуйста, обратитесь в центр поддержки.
ErrorSavingQA	Произошла ошибка во время сохранения секретных вопросов или ответов. Пожалуйста, обратитесь в центр поддержки.
ErrorSCIsNotActivated	Ошибка: помощь центра поддержки по телефону не активирована для этой учетной записи. Пожалуйста, перенаправьте пользователя к

	локальному ITPM.
ErrorSSIsNotActivated	Ошибка: сервис самообслуживания не активирован для этой учетной записи. Пожалуйста, обратитесь в центр поддержки.
ErrorUnlockingAccount	Произошла ошибка во время разблокировки учетной записи.
ErrorWrongAnswers	Ошибка: ответы неправильные.
ErrorWrongCredentials	Ошибка: введенные учетная запись и пароль не совпадают.
HelpDefault	<p><div style="text-align: left;"></p> <p><p>Сервис UserIdentification представляет возможность самостоятельного управления состоянием своей учетной записи в компании MYCOMPANY.</p></p> <p><p>С помощью этого сервиса Вы можете:
</p> <ul style="list-style-type: none"> - просмотреть состояние своей учетной записи и её основных свойств;
 - задать контрольную фразу для идентификации Центром поддержки MYCOMPANY;
 - самостоятельно разблокировать свою учетную запись.</p> <p><p>Для проверки состояния учетной записи воспользуйтесь правой частью этой страницы. Введите в форме свои учетную запись и пароль, которые вы используете для входа в Windows, нажмите кнопку "Войти". На открывшейся странице будут доступны свойства учетной записи, а так же раздел управления контрольными фразами.</p></p> <p><p>Для разблокировки учетной записи воспользуйтесь любым компьютером, который уже произвел вход в сеть MYCOMPANY, например, попросите своего коллегу воспользоваться его компьютером на 5 минут. Используйте левую часть этой страницы для начала процесса идентификации пользователя по контрольным фразам и разблокировки учетной записи.</p></div></p>
HelpSecretQuestions	<p><div style="text-align: left;"></p> <p><p>Эта страница помогает настроить сервис самообслуживания и идентификации в центре поддержке MYCOMPANY.</p></p> <p><p>Раздел "Секретный вопрос для центра поддержки" используется для задания контрольных фраз при идентификации пользователя центром поддержки MYCOMPANY по телефону. Вопрос и ответ этого раздела хранятся в базе данных, открытой для персонала ИТ службы. При звонке в центр поддержки, сотрудник ИТ службы зачитывает пользователю заранее выбранный вопрос из базы данных, а пользователь отвечает на него. Если ответ пользователя совпадает с ответом, указанным в базе данным - запрос на поддержку принимается. В противном случае сотрудник ИТ службы отказывает в регистрации запроса.</p></p> <p><p>Раздел "Секретные вопросы сервиса самообслуживания" используется для задания контрольных фраз для самостоятельной разблокировки учетной записи пользователя. Вопросы и ответы этого раздела хранятся в зашифрованной базе данных, никто, кроме Вас, не может прочитать эти данные.</p></div></p>
HelpSelfServiceActions	<p><div style="text-align: left;"></p> <p><p>Эта страница служит для самостоятельной разблокировки учетной записи или смены пароля.</p></p> <p><p>Для смены пароля учетной записи нужно воспользоваться левой частью формы, где нужно ввести новый пароль, его подтверждение и нажать кнопку "Установить". После этой операции будет установлен новый пароль для учетной записи, который можно использовать для входа в систему на любом компьютере компании MYCOMPANY.</p></p> <p><p>Для разблокировки учетной записи нужно воспользоваться правой частью формы. Если учетная запись заблокирована, то кнопка "Разблокировать" доступна. При нажатии на эту кнопку произойдет разблокировка учетной записи, и, используя эту учетную запись, можно входить на любой компьютер компании MYCOMPANY.</p></p> <p></div></p>
HelpSelfServiceIdentification	<p><div style="text-align: left;"></p> <p><p>Эта страница служит для идентификации пользователя по контрольным фразам.</p></p> <p><p>Для входа в сервис самообслуживания необходимо ответить на два случайно выбранных вопроса из зашифрованной базы данных. Ответы на вопросы должны быть даны на той же раскладке клавиатуры, которая использовалась при регистрации в сервисе (обычно это латинский алфавит).</p></p> <p><p>При совпадении данных ответов с ответами из зашифрованной базы данных, произойдет вход в сервис самообслуживания. В противном случае</p>

	сервис предложит ответить на два других случайно выбранных вопроса.</p></div>
HelpSelfServiceLogin	<div style="text-align: left;"> <p>Эта страница служит для определения местоположения пользователя для того, чтобы выполнить разблокировку учетной записи на ближайшем сервере. Если ближайший сервер выбран неправильно, то разблокировка может занять около 15 минут - время синхронизации серверов компании.</p> <p>Обычно сервис самостоятельно определяет местоположение текущего пользователя, тем не менее, иногда требуется помочь ему и выбрать местоположение из выпадающего списка. По умолчанию для всех неопределенных сетей используется сервер W8GVB701, расположенный в Бельгии. Ваш текущий IP адрес, подсеть и сервер можно увидеть в левом нижнем углу этой страницы.</p> <p>Для продолжения процесса разблокировки учетной записи нужно ввести учетную запись и нажать "Далее".</p></div>
HelpUserProperties	<div style="text-align: left;"> <p>Эта страница отображает свойства учетной записи.</p> <p>Здесь отображается информация о сроке действия учетной записи, пароля, состоянии учетной записи, состоянии сервиса самообслуживания и идентификации в центре поддержке MYCOMPANY, а так же основные свойства учетной записи из службы Active Directory компании MYCOMPANY.</p> <p>Информация об основных свойствах учетной записи, пароле и сроке действия учетной записи обновляется автоматически при внесении данных в учетную запись пользователем, центром поддержки MYCOMPANY, службой по персоналу MYCOMPANY или другими уполномоченными лицами.</p> <p>Состояние сервиса самообслуживания и идентификации в центре поддержке можно изменить, нажав кнопку "Изменить настройки" в соответствующем разделе.</p></div>
InfoAccountUnlocked	Ваша учетная запись разблокирована
InfoPasswordChanged	Ваш пароль изменен
NotificationHeader	Уведомление сервиса UserIdentification
NotificationSCStateActivated	Это сообщение для информирования Вас, что сервис помощи центра поддержки по телефону активирован для Вашей учетной записи. С настоящего времени Вы можете звонить в центр поддержки. Если Вы не выполняли какие-либо действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или обратитесь в центр поддержки немедленно.
NotificationSCStateDeactivated	Это сообщение для информирования Вас, что сервис помощи центра поддержки по телефону отключен для Вашей учетной записи. С настоящего времени Вы не можете звонить в центр поддержки, потому что специалисты не смогут идентифицировать Вас как пользователя. Если Вы не выполняли какие-либо действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или центр поддержки немедленно.
NotificationSSLoginFailed	Это сообщение для информирования Вас, что Вы неправильно ответили на вопросы сервиса самообслуживания. Если Вы не выполняли какие-то действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или обратитесь в центр поддержки немедленно.
NotificationSSLoginSuccess	Это сообщение для информирования Вас, что Вы успешно зашли в раздел сервис самообслуживания портала UserIdentification. Если Вы не выполняли какие-либо действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или обратитесь в центр поддержки немедленно.
NotificationSSPasswordsChanged	Это сообщение для информирования Вас, что Вы изменили свой пароль с помощью сервиса самообслуживания портала UserIdentification. Если Вы не выполняли какие-либо действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или обратитесь в центр поддержки немедленно.
NotificationSSStateActivated	Это сообщение для информирования Вас, что сервис самообслуживания портала UserIdentification для Вашей учетной записи активирован. Если Вы не выполняли какие-либо действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или обратитесь в центр поддержки немедленно.
NotificationSSStateDeactivated	Это сообщение для информирования Вас, что сервис самообслуживания портала UserIdentification для Вашей учетной записи деактивирован. С настоящего времени Вы не можете разблокировать свою учетную запись сами, потому что сервис не может идентифицировать Вас как пользователя. Если Вы не выполняли какие-либо действия в портале UserIdentification, пожалуйста, проинформируйте своего руководителя или

	обратитесь в центр поддержки немедленно.
PageAccountExpires	Ваша учетная запись устареет
PageAccountStatus	Состояние учетной записи
PageAnswer	Ваш ответ
PageCanChangePassword	Вы можете сменить пароль
PageCity	Город
PageCompany	Компания
PageCountry	Страна
PageDepartment	Отдел
PageDescription	Описание
PageDisplayName	Отображаемое имя
PageEMail	Электронная почта
PageGeneral	Основное
PageLocation	Расположение
PageLocked	Ваша учетная запись заблокирована
PageMobilePhone	Мобильный телефон
PageNever	Никогда
PageNewPassword	Ваш новый пароль
PageNewPasswordConfirm	Подтверждение нового пароля
PageNo	Нет
PageNotActivated	Вы не активировали сервис
PageOffice	Офис
PageOfficePhone	Офисный телефон
PageOtherPhone	Другой телефон
PagePassword	Пароль
PagePasswordChanged	Вы сменили пароль
PagePasswordExpires	Ваш пароль устареет
PagePhones	Телефоны
PageSCQuestion	Секретный вопрос для центра поддержки
PageSecretQuestion	Секретный вопрос
PageService	Сервис
PageServiceSCIsActivated	Помощь центра поддержки активирована
PageServiceSSIsActivated	Сервис самообслуживания активирован
PageSetNewPassword	Установить новый пароль
PageShownInAddressBook	Учетная запись указана в адресной книге
PageSSIdentification	Идентификация в сервисе самообслуживания
PageSSLogin	Вход в сервис самообслуживания
PageSSQuestion	Секретные вопросы сервиса самообслуживания
PageTheServiceIsActivated	Сервис активирован
PageTheServiceIsDeactivated	Сервис деактивирован
PageTitle	Должность
PageUnlockAccount	Разблокировка учетной записи

PageUnlocked	Учетная запись не заблокирована
PageUnlockUserIndentification	Разблокировка/сброс пароля моей учетной записи
PageUserAccount	Учетная запись
PageUserAnswer	Ответ пользователя
PageUserIdentification	Идентификация пользователя
PageUserPassword	Пароль
PageWelcome	Добро пожаловать
PageYes	Да

База данных

QAS – для зашифрованных контрольных вопросов, используемых только пользователем

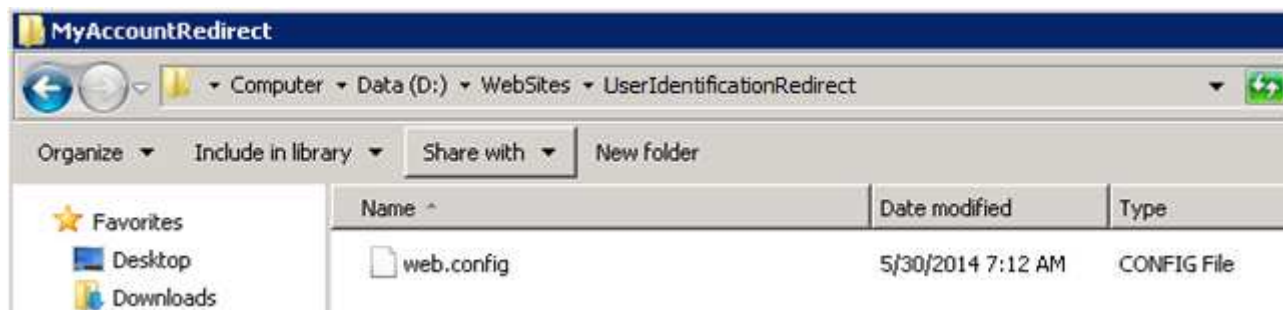
	Column Name	Data Type	Allow Nulls
▶	qasID	bigint	<input type="checkbox"/>
	qasAccount	nvarchar(255)	<input type="checkbox"/>
	qasQuestion	nvarchar(255)	<input type="checkbox"/>
	qasAnswer	nvarchar(255)	<input type="checkbox"/>
			<input type="checkbox"/>

QAS – для открытых контрольных вопросов, доступ к которым имеет служба ИТ-поддержки

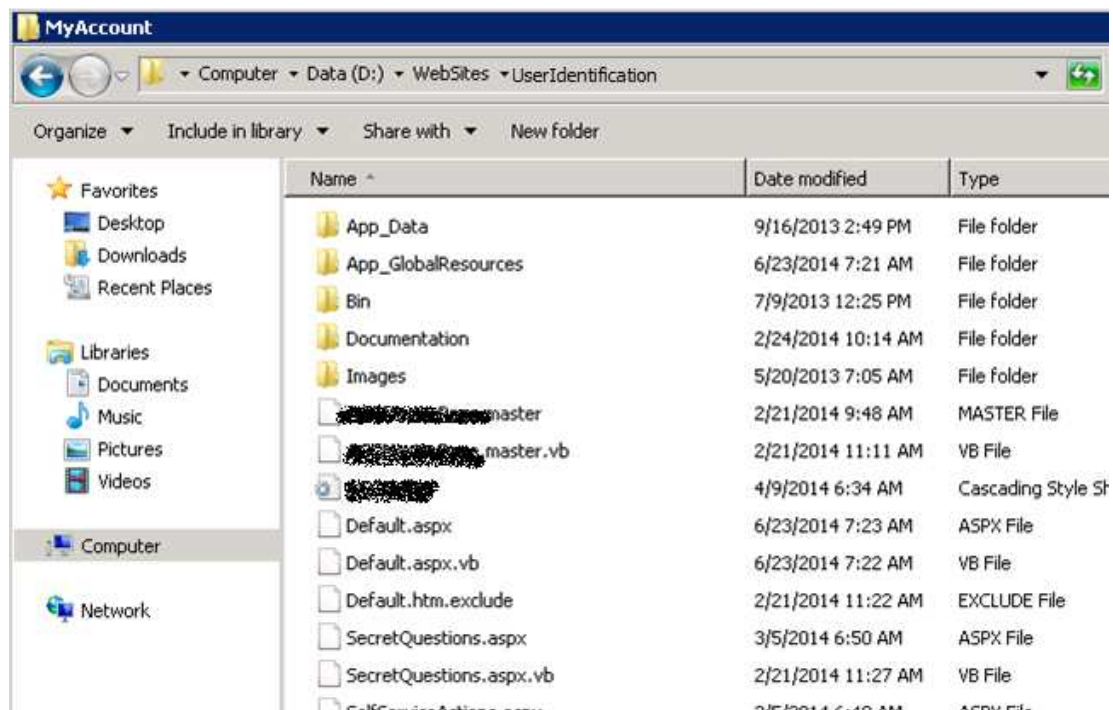
	Column Name	Data Type	Allow Nulls
▶	qaID	bigint	<input type="checkbox"/>
	qaAccount	nvarchar(255)	<input type="checkbox"/>
	qaQuestion	nvarchar(255)	<input type="checkbox"/>
	qaAnswer	nvarchar(255)	<input type="checkbox"/>
			<input type="checkbox"/>

Структура папок сервера

Папка для сайта перенаправления с HTTPS на HTTPS



Папка для основного сайта



Структура веб-сервера

Пул приложений

Application Pools

This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications.

The screenshot shows the IIS Management Console interface for Application Pools. On the left, a tree view lists several application pools, with 'MyAccount' selected. The main area displays the 'Advanced Settings' dialog box for this pool. The dialog is organized into sections: General, CPU, and Process Model. The 'Name' field is highlighted, showing the value 'MyAccount'. The 'Process Model' section shows the identity is set to 'NetworkService'.

Section	Property	Value
General	.NET Framework Version	v4.0
	Enable 32-Bit Applications	False
	Managed Pipeline Mode	Integrated
	Name	MyAccount
	Queue Length	1000
	Start Automatically	True
CPU	Limit	0
	Limit Action	NoAction
	Limit Interval (minutes)	5
	Processor Affinity Enabled	False
	Processor Affinity Mask	4294967295
Process Model	Identity	NetworkService
	Idle Time-out (minutes)	20
	Load User Profile	False
	Maximum Worker Processes	1
	Ping Enabled	True
	Ping Maximum Response Time (seconds)	90
	Ping Period (seconds)	30
	Shutdown Time Limit (seconds)	90
	Startup Time Limit (seconds)	90

Name
[name] The application pool name is the unique identifier for the application pool.

OK Cancel

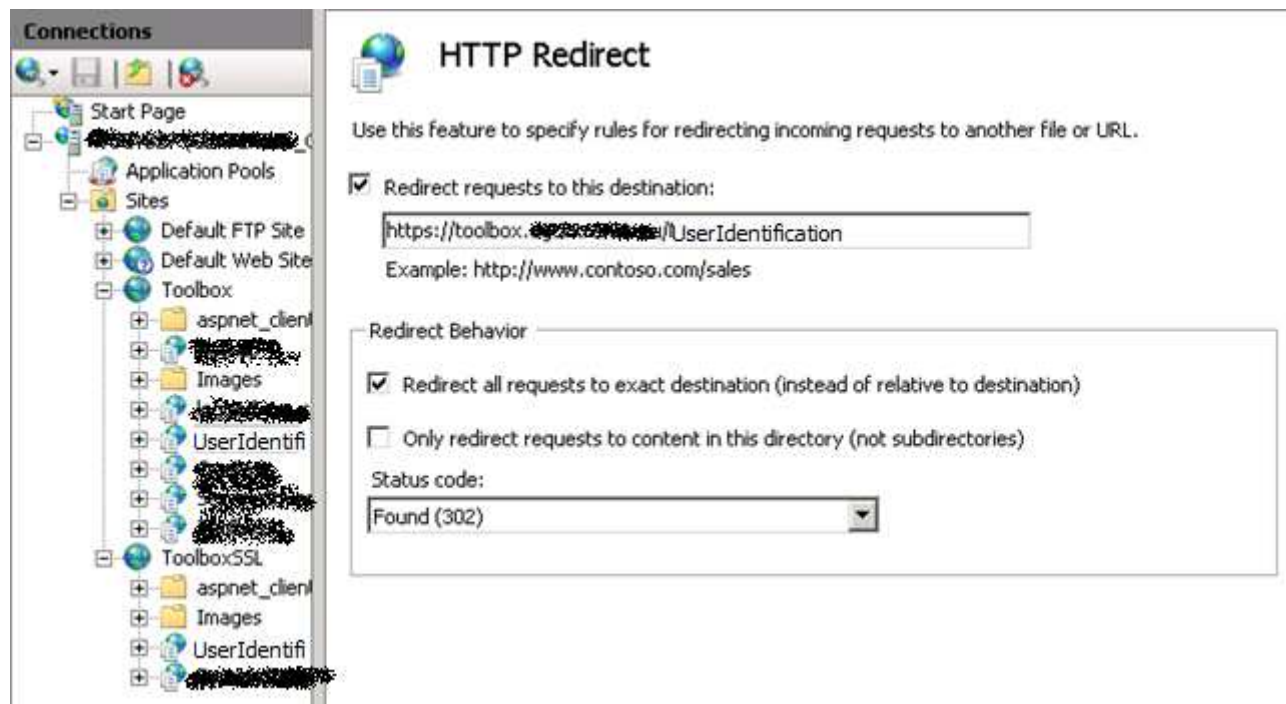
The screenshot displays the IIS Server Certificates management console. On the left, the 'Connections' tree shows the hierarchy: Start Page > Application Pools > Sites > Toolbox > ToolboxSSL. The main area shows a list of certificates:

Name	Issued To	Issued By
Toolbox	[Redacted]	[Redacted]
Toolbox v2	[Redacted]	[Redacted]

A 'Certificate' dialog box is open, showing details for the selected certificate. The 'General' tab is active, displaying the following information:

- Certificate Information**
- This certificate is intended for the following purpose(s):
 - Ensures the identity of a remote computer
- Issued to:** Toolbox v2
- Issued by:** [Redacted]
- Valid from:** 4/ 29/ 2014 **to:** 5/ 25/ 2017
- You have a private key that corresponds to this certificate.

Buttons for 'Issuer Statement' and 'OK' are visible at the bottom of the dialog box. A link for 'Learn more about certificates' is also present.



The screenshot shows the IIS Manager interface. On the left, the 'Connections' tree is expanded to show the 'Toolbox' folder. The main pane displays the 'HTTP Redirect' configuration for the selected folder. The configuration includes a checked checkbox for 'Redirect requests to this destination:', a text box containing the URL 'https://toolbox. [redacted] /UserIdentification', and an example 'http://www.contoso.com/sales'. Below this, the 'Redirect Behavior' section has a checked checkbox for 'Redirect all requests to exact destination (instead of relative to destination)', an unchecked checkbox for 'Only redirect requests to content in this directory (not subdirectories)', and a 'Status code' dropdown menu set to 'Found (302)'.

HTTP Redirect

Use this feature to specify rules for redirecting incoming requests to another file or URL.

Redirect requests to this destination:

Example: `http://www.contoso.com/sales`

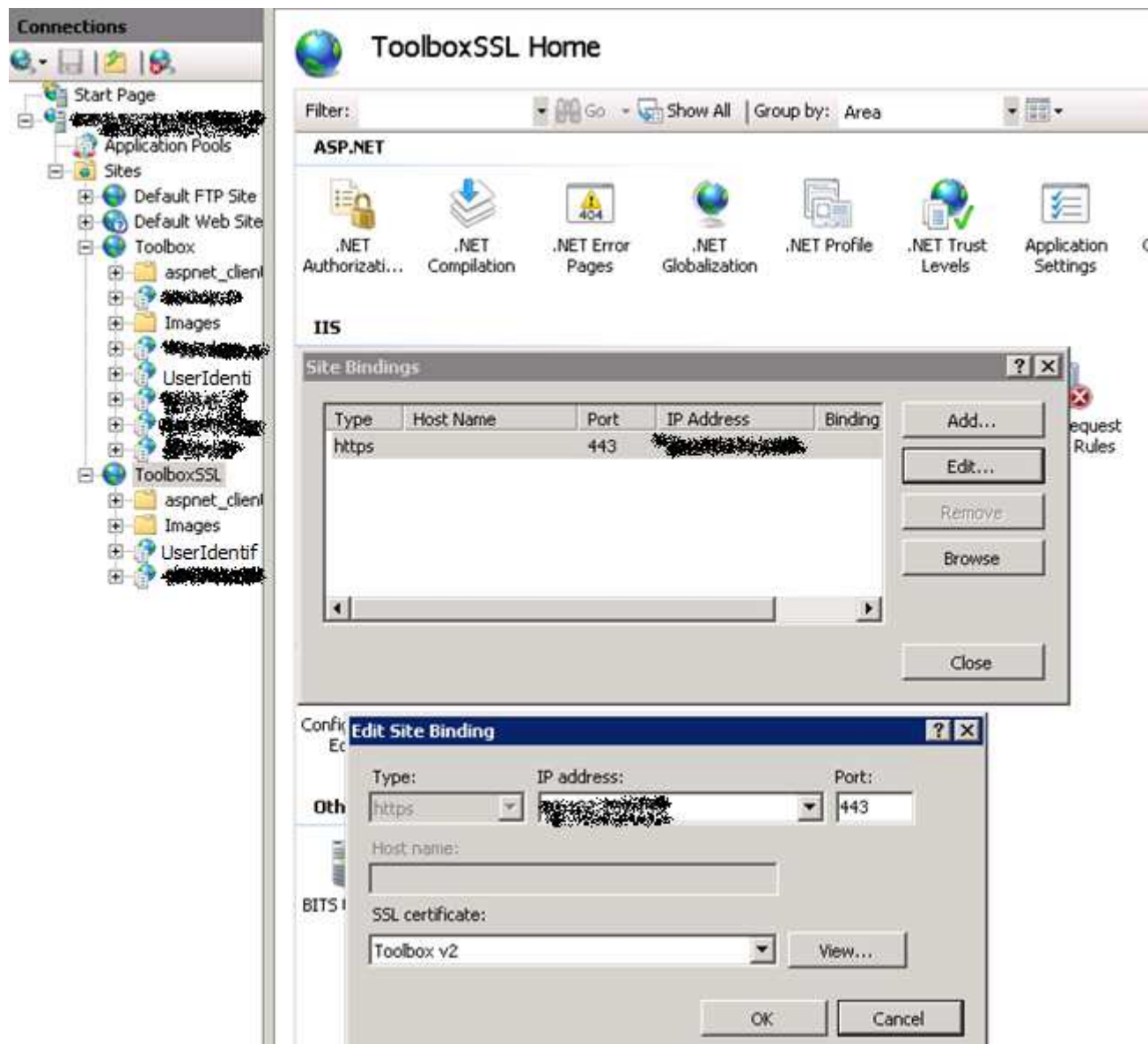
Redirect Behavior

Redirect all requests to exact destination (instead of relative to destination)

Only redirect requests to content in this directory (not subdirectories)

Status code:

Основной веб-сайт, использующий протокол HTTPS и сертификат сервера



Настройки аутентификации пользователей основного веб-сайта

The screenshot shows the IIS Manager interface. On the left is the 'Connections' tree, and on the right is the 'Authentication' configuration page.

Connections Tree:

- Start Page
- Application Pools
- Sites
 - Default FTP Site
 - Default Web Site
 - Toolbox
 - aspnet_client
 - [Redacted]
 - Images
 - [Redacted]
 - UserIdentific
 - [Redacted]
 - [Redacted]
 - ToolboxSSL
 - aspnet_client
 - Images
 - UserIdentific
 - [Redacted]

Authentication Page:

Group by: No Grouping

Name	Status	Response Type
Anonymous Authentication	Enabled	
ASP.NET Impersonation	Disabled	
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Disabled	HTTP 401 Challenge

Настройки аутентификации страницы веб-сайта для работников службы ИТ-поддержки пользователей

The screenshot shows the IIS Connections pane on the left and the Authentication settings pane on the right. The Connections pane shows a tree view of the web site structure, including Application Pools, Sites, and various folders like aspnet_client, Images, and UserIdentification. The Authentication pane shows a table of authentication methods.

Name	Status	Response Type
Anonymous Authentication	Disabled	
ASP.NET Impersonation	Disabled	
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Enabled	HTTP 401 Challenge