

```
using System;
using System.Drawing;
using System.Collections;
using System.ComponentModel;
using System.Windows.Forms;
using System.Data;
using System.Runtime.Remoting;
using System.Runtime.Remoting.Channels;
using System.Runtime.Remoting.Channels.Tcp;
using sb54_CSAI.remoteInterfaces;
using System.Threading;

namespace sb54_CSAI.ClientApp
{
    #region FrmClient CLASS
    /// <summary>
    /// FrmClient is a sub class of a <see cref="System.Windows.Forms.Form">Form </see>
    /// that provides the ReMp3 Client functionality
    /// <br></br>
    /// <br></br>
    /// Namely a Remote Tracklist and controls, and a Remote Media Library
    /// </summary>
    public class FrmClient : System.Windows.Forms.Form
    {
        #region Instance fields
        //Instance fields
        private FrmAbout oFrmAbout;
        private System.ComponentModel.IContainer components;
        private System.Windows.Forms.ColorDialog colorDialog1;
        private System.Windows.Forms.ImageList oImgList_16;
        private sb54_CSAI.MiscFormComponents.MenuIcons oMnuIcons;
        private System.Windows.Forms.MainMenu oMainMenu;
        private System.Windows.Forms.MenuItem oMnuFile;
        private System.Windows.Forms.MenuItem oMnuTrackList;
        private System.Windows.Forms.MenuItem oMnuMedia;
        private System.Windows.Forms.MenuItem oMnuExit;
        private System.Windows.Forms.MenuItem oMnuHelpAbout;
        private System.Windows.Forms.MenuItem oMnuHelp;
        private System.Windows.Forms.MenuItem oMenuSep3;
        private System.Windows.Forms.MenuItem oMnuAbout;
        private System.Windows.Forms.ImageList oImgList_32;
        private System.Windows.Forms.TabControl oTabControll1;
        private System.Windows.Forms.TabPage oTabTrackList;
        private System.Windows.Forms.TabPage oTabMedia;
        private sb54_CSAI.MiscFormComponents.uctTitledPanel uctTitledPnlTrackList;
        private sb54_CSAI.MiscFormComponents.uctTitledPanel uctTitledPnlMedia;
        private System.Windows.Forms.MenuItem oMnuTabs;
        private System.Windows.Forms.Panel panel1;
        private sb54_CSAI.MiscFormComponents.uctTitledPanel uctTitledPanel1;
        private System.Windows.Forms.Panel panel2;
        private SB54_CSAI.ClientTrackList.uctClientTrackList uctClientTrackList1;
        private System.Windows.Forms.Panel panel3;
        private sb54_CSAI.MiscFormComponents.uctTitledPanel uctTitledPanel2;
        private System.Windows.Forms.Panel panel4;
        private SB54_CSAI.MediaLibrary.uctMediaLibrary uctMediaLibrary1;
        private IClientRemoting oRemServive = null;
        private Thread myThread;

        #endregion
        #region Public Constructor
        /// <summary>
        /// Simply creates a new FrmClient, and attempts to set up a new
        /// <see cref="sb54_CSAI.remoteInterfaces.RemotingServiceClass">RemotingServiceClass </see>
        </summary>
        public FrmClient()
        {
            InitializeComponent();
            SetUpRemoting();

            //Start a new Thread to wait for the new track event to be triggered
        }
    }
}

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        //(Button press in this test case)
        startWaitingThread();
    }
#endregion
#region Windows Form Designer generated code
/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.components = new System.ComponentModel.Container();
    System.Resources.ResourceManager resources = new System.Resources.
ResourceManager(typeof(FrmClient));
    this.colorDialog1 = new System.Windows.Forms.ColorDialog();
    this.oImgList_16 = new System.Windows.Forms.ImageList(this.components);
    this.oMnuIcons = new sb54_CSAI.MiscFormComponents.MenuIcons(this.components);
    this.oMnuTrackList = new System.Windows.Forms.MenuItem();
    this.oMnuMedia = new System.Windows.Forms.MenuItem();
    this.oMnuExit = new System.Windows.Forms.MenuItem();
    this.oMnuHelp = new System.Windows.Forms.MenuItem();
    this.oMenuSep3 = new System.Windows.Forms.MenuSepItem();
    this.oMnuAbout = new System.Windows.Forms.MenuItem();
    this.oMnuTabs = new System.Windows.Forms.MenuItem();
    this.oMainMenu = new System.Windows.Forms.MainMenu();
    this.oMnuFile = new System.Windows.Forms.MenuItem();
    this.oMnuHelpAbout = new System.Windows.Forms.MenuItem();
    this.oTabControl1 = new System.Windows.Forms.TabControl();
    this.oTabTrackList = new System.Windows.Forms.TabPage();
    this.panel2 = new System.Windows.Forms.Panel();
    this.uctClientTrackList1 = new SB54_CSAI.ClientTrackList.uctClientTrackList();
    this.panell1 = new System.Windows.Forms.Panel();
    this.uctTitledPanell1 = new sb54_CSAI.MiscFormComponents.uctTitledPanel();
    this.oTabMedia = new System.Windows.Forms.TabPage();
    this.panel4 = new System.Windows.Forms.Panel();
    this.uctMediaLibrary1 = new SB54_CSAI.MediaLibrary.uctMediaLibrary();
    this.panel3 = new System.Windows.Forms.Panel();
    this.uctTitledPanel2 = new sb54_CSAI.MiscFormComponents.uctTitledPanel();
    this.oImgList_32 = new System.Windows.Forms.ImageList(this.components);
    this.uctTitledPnlTrackList = new sb54_CSAI.MiscFormComponents.uctTitledPanel();
    this.uctTitledPnlMedia = new sb54_CSAI.MiscFormComponents.uctTitledPanel();
    this.oTabControl1.SuspendLayout();
    this.oTabTrackList.SuspendLayout();
    this.panel2.SuspendLayout();
    this.panell1.SuspendLayout();
    this.oTabMedia.SuspendLayout();
    this.panel4.SuspendLayout();
    this.panel3.SuspendLayout();
    this.SuspendLayout();
    //
    // oImgList_16
    //
    this.oImgList_16.ColorDepth = System.Windows.Forms.ColorDepth.Depth32Bit;
    this.oImgList_16.ImageSize = new System.Drawing.Size(16, 16);
    this.oImgList_16.ImageStream = ((System.Windows.Forms.ImageListStreamer)
(resources.GetObject("oImgList_16.ImageStream")));
    this.oImgList_16.TransparentColor = System.Drawing.Color.Transparent;
    //
    // oMnuIcons
    //
    this.oMnuIcons.ImageList = this.oImgList_16;
    //
    // oMnuTrackList
    //
    this.oMnuTrackList.Index = 0;
    this.oMnuIcons.SetMenuIcons(this.oMnuTrackList, "0");
    this.oMnuTrackList.OwnerDraw = true;
    this.oMnuTrackList.Shortcut = System.Windows.Forms.Shortcut.CtrlL;
    this.oMnuTrackList.Text = "Track &List";
    this.oMnuTrackList.Click += new System.EventHandler(this.oMnuTrackList_Click);
    //
    // oMnuMedia

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//
this.oMnuMedia.Index = 1;
this.oMnuIcons.SetMenuIcons(this.oMnuMedia, "1");
this.oMnuMedia.OwnerDraw = true;
this.oMnuMedia.Shortcut = System.Windows.Forms.Shortcut.CtrlM;
this.oMnuMedia.Text = "&Media Library";
this.oMnuMedia.Click += new System.EventHandler(this.oMnuMedia_Click);
//
// oMnuExit
//
this.oMnuExit.Index = 0;
this.oMnuIcons.SetMenuIcons(this.oMnuExit, "3");
this.oMnuExit.OwnerDraw = true;
this.oMnuExit.Shortcut = System.Windows.Forms.Shortcut.CtrlE;
this.oMnuExit.Text = "&Exit";
this.oMnuExit.Click += new System.EventHandler(this.oMnuExit_Click);
//
// oMnuHelp
//
this.oMnuHelp.Index = 0;
this.oMnuIcons.SetMenuIcons(this.oMnuHelp, "4");
this.oMnuHelp.OwnerDraw = true;
this.oMnuHelp.Shortcut = System.Windows.Forms.Shortcut.F1;
this.oMnuHelp.Text = "Help";
this.oMnuHelp.Click += new System.EventHandler(this.oMnuHelp_Click);
//
// oMenuSep3
//
this.oMenuSep3.Index = 1;
this.oMnuIcons.SetMenuIcons(this.oMenuSep3, null);
this.oMenuSep3.OwnerDraw = true;
this.oMenuSep3.Text = "-";
//
// oMnuAbout
//
this.oMnuAbout.Index = 2;
this.oMnuIcons.SetMenuIcons(this.oMnuAbout, "2");
this.oMnuAbout.OwnerDraw = true;
this.oMnuAbout.Shortcut = System.Windows.Forms.Shortcut.CtrlA;
this.oMnuAbout.Text = "&About Re-MP3";
this.oMnuAbout.Click += new System.EventHandler(this.oMnuAbout_Click);
//
// oMnuTabs
//
this.oMnuTabs.Index = 1;
this.oMnuTabs.MenuItems.AddRange(new System.Windows.Forms.MenuItem[] {
this.oMnuTrackList,
this.oMnuMedia});
    this.oMnuTabs.ShowShortcut = false;
    this.oMnuTabs.Text = "Tabs";
//
// oMainMenu
//
    this.oMainMenu.MenuItems.AddRange(new System.Windows.Forms.MenuItem[] {
this.oMnuFile,
this.oMnuTabs,
this.oMnuHelpAbout});
//
// oMnuFile
//
this.oMnuFile.Index = 0;
this.oMnuFile.MenuItems.AddRange(new System.Windows.Forms.MenuItem[] {
this.oMnuExit});
    this.oMnuFile.RadioCheck = true;
    this.oMnuFile.Text = "File";
//
// oMnuHelpAbout
//
this.oMnuHelpAbout.Index = 2;
this.oMnuHelpAbout.MenuItems.AddRange(new System.Windows.Forms.MenuItem[] {
this.oMnuHelp,
this.oMenuSep3,
this.oMnuAbout});
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```
this.oMnuHelpAbout.Text = "Help && About";
//
// oTabControll1
//
this.oTabControll1.Appearance = System.Windows.Forms.TabAppearance.FlatButtons;
this.oTabControll1.Controls.Add(this.oTabTrackList);
this.oTabControll1.Controls.Add(this.oTabMedia);
this.oTabControll1.Dock = System.Windows.Forms.DockStyle.Fill;
this.oTabControll1.ImageList = this.oImgList_32;
this.oTabControll1.Location = new System.Drawing.Point(0, 0);
this.oTabControll1.Name = "oTabControll1";
this.oTabControll1.SelectedIndex = 0;
this.oTabControll1.Size = new System.Drawing.Size(1016, 734);
this.oTabControll1.TabIndex = 1;
//
// oTabTrackList
//
this.oTabTrackList.Controls.Add(this.panel2);
this.oTabTrackList.Controls.Add(this.panell1);
this.oTabTrackList.ImageIndex = 0;
this.oTabTrackList.Location = new System.Drawing.Point(4, 42);
this.oTabTrackList.Name = "oTabTrackList";
this.oTabTrackList.Size = new System.Drawing.Size(1008, 688);
this.oTabTrackList.TabIndex = 0;
this.oTabTrackList.Text = "Track List";
//
// panel2
//
this.panel2.Controls.Add(this.uctClientTrackList1);
this.panel2.Dock = System.Windows.Forms.DockStyle.Fill;
this.panel2.Location = new System.Drawing.Point(0, 101);
this.panel2.Name = "panel2";
this.panel2.Size = new System.Drawing.Size(1008, 587);
this.panel2.TabIndex = 6;
//
// uctClientTrackList1
//
this.uctClientTrackList1.Dock = System.Windows.Forms.DockStyle.Fill;
this.uctClientTrackList1.Location = new System.Drawing.Point(0, 0);
this.uctClientTrackList1.Name = "uctClientTrackList1";
this.uctClientTrackList1.Size = new System.Drawing.Size(1008, 587);
this.uctClientTrackList1.TabIndex = 4;
this.uctClientTrackList1.RemoteOperations += new SB54_CSAI.ClientTrackList.
uctClientTrackList.RemoteOperationsHandler(this.uctClientTrackList1.RemoteOperations);
//
// panell1
//
this.panell1.Controls.Add(this.uctTitledPanell1);
this.panell1.Dock = System.Windows.Forms.DockStyle.Top;
this.panell1.Location = new System.Drawing.Point(0, 0);
this.panell1.Name = "panell1";
this.panell1.Size = new System.Drawing.Size(1008, 101);
this.panell1.TabIndex = 5;
//
// uctTitledPanell1
//
this.uctTitledPanell1.Dock = System.Windows.Forms.DockStyle.Top;
this.uctTitledPanell1.image = ((System.Drawing.Image)(resources.GetObject(
"uctTitledPanell1.image"))));
this.uctTitledPanell1.Location = new System.Drawing.Point(0, 0);
this.uctTitledPanell1.mainTitle = "ReMP3 Client Track List";
this.uctTitledPanell1.Name = "uctTitledPanell1";
this.uctTitledPanell1.Size = new System.Drawing.Size(1008, 101);
this.uctTitledPanell1.subTitle = "Create And Manage Your Own Track Lists ";
this.uctTitledPanell1.TabIndex = 5;
//
// oTabMedia
//
this.oTabMedia.Controls.Add(this.panel4);
this.oTabMedia.Controls.Add(this.panel3);
this.oTabMedia.ImageIndex = 1;
this.oTabMedia.Location = new System.Drawing.Point(4, 42);
this.oTabMedia.Name = "oTabMedia";
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this.oTabMedia.Size = new System.Drawing.Size(1008, 688);
this.oTabMedia.TabIndex = 1;
this.oTabMedia.Text = "Media Library";
//
// panel4
//
this.panel4.Controls.Add(this.uctMediaLibrary1);
this.panel4.Dock = System.Windows.Forms.DockStyle.Fill;
this.panel4.Location = new System.Drawing.Point(0, 101);
this.panel4.Name = "panel4";
this.panel4.Size = new System.Drawing.Size(1008, 587);
this.panel4.TabIndex = 3;
//
// uctMediaLibrary1
//
this.uctMediaLibrary1.BackColor = System.Drawing.SystemColors.Control;
this.uctMediaLibrary1.Dock = System.Windows.Forms.DockStyle.Fill;
this.uctMediaLibrary1.Location = new System.Drawing.Point(0, 0);
this.uctMediaLibrary1.Name = "uctMediaLibrary1";
this.uctMediaLibrary1.Size = new System.Drawing.Size(1008, 587);
this.uctMediaLibrary1.TabIndex = 1;
this.uctMediaLibrary1.addFiles += new SB54_CSAI.MediaLibrary.uctMediaLibrary.
AddFilesHandler(this.uctMediaLibrary1_addFiles);
//
// panel3
//
this.panel3.Controls.Add(this.uctTitledPanel2);
this.panel3.Dock = System.Windows.Forms.DockStyle.Top;
this.panel3.Location = new System.Drawing.Point(0, 0);
this.panel3.Name = "panel3";
this.panel3.Size = new System.Drawing.Size(1008, 101);
this.panel3.TabIndex = 2;
//
// uctTitledPanel2
//
this.uctTitledPanel2.Dock = System.Windows.Forms.DockStyle.Fill;
this.uctTitledPanel2.image = ((System.Drawing.Image)(resources.GetObject(
"uctTitledPanel2.image")));
this.uctTitledPanel2.Location = new System.Drawing.Point(0, 0);
this.uctTitledPanel2.mainTitle = "Media Library";
this.uctTitledPanel2.Name = "uctTitledPanel2";
this.uctTitledPanel2.Size = new System.Drawing.Size(1008, 101);
this.uctTitledPanel2.subTitle = "Your MutliMedia Catalogue";
this.uctTitledPanel2.TabIndex = 2;
//
// oImgList_32
//
this.oImgList_32.ImageSize = new System.Drawing.Size(32, 32);
this.oImgList_32.ImageStream = ((System.Windows.Forms.ImageListStreamer)
(resources.GetObject("oImgList_32.ImageStream")));
this.oImgList_32.TransparentColor = System.Drawing.Color.Transparent;
//
// uctTitledPnlTrackList
//
this.uctTitledPnlTrackList.Dock = System.Windows.Forms.DockStyle.Top;
this.uctTitledPnlTrackList.image = ((System.Drawing.Image)(resources.GetObject(
"uctTitledPnlTrackList.image")));
this.uctTitledPnlTrackList.Location = new System.Drawing.Point(0, 0);
this.uctTitledPnlTrackList.mainTitle = "";
this.uctTitledPnlTrackList.Name = "uctTitledPnlTrackList";
this.uctTitledPnlTrackList.Size = new System.Drawing.Size(1008, 101);
this.uctTitledPnlTrackList.subTitle = "";
this.uctTitledPnlTrackList.TabIndex = 2;
//
// uctTitledPnlMedia
//
this.uctTitledPnlMedia.Dock = System.Windows.Forms.DockStyle.Top;
this.uctTitledPnlMedia.image = ((System.Drawing.Image)(resources.GetObject(
"uctTitledPnlMedia.image")));
this.uctTitledPnlMedia.Location = new System.Drawing.Point(0, 0);
this.uctTitledPnlMedia.mainTitle = "";
this.uctTitledPnlMedia.Name = "uctTitledPnlMedia";
this.uctTitledPnlMedia.Size = new System.Drawing.Size(1008, 101);
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        this.uctTitledPnlMedia.subTitle = "";
        this.uctTitledPnlMedia.TabIndex = 1;
        //
        // FrmClient
        //
        this.AutoScaleBaseSize = new System.Drawing.Size(5, 13);
        this.AutoScroll = true;
        this.ClientSize = new System.Drawing.Size(1016, 734);
        this.Controls.Add(this.oTabControl1);
        this.Icon = ((System.Drawing.Icon)(resources.GetObject("$this.Icon")));
        this.MaximumSize = new System.Drawing.Size(1280, 1024);
        this.Menu = this.oMainMenu;
        this.MinimumSize = new System.Drawing.Size(1024, 768);
        this.Name = "FrmClient";
        this.SizeGripStyle = System.Windows.Forms.SizeGripStyle.Hide;
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "Re-MP3 Client : Remote Client";
        this.Closing += new System.ComponentModel.CancelEventHandler(this.
FrmClient_Closing);
        this.Closed += new System.EventHandler(this.FrmClient_Closed);
        this.oTabControl1.ResumeLayout(false);
        this.oTabTrackList.ResumeLayout(false);
        this.panel2.ResumeLayout(false);
        this.panel1.ResumeLayout(false);
        this.oTabMedia.ResumeLayout(false);
        this.panel4.ResumeLayout(false);
        this.panel3.ResumeLayout(false);
        this.ResumeLayout(false);
    }
#endregion
#region Public Methods

    /// <summary>
    /// Clean up any resources being used.
    /// </summary>
    /// <param name="disposing">true indicates the object should be disposed</param>
    protected override void Dispose( bool disposing )
    {
        //if being asked to dispose
        if( disposing )
        {
            //clean up the held resources
            if( components != null ) { components.Dispose(); }
        }
        //call base class Dispose
        base.Dispose( disposing );
    }
#endregion
#region Private Methods

    /// <summary>
    /// Attempts to set up a new
    /// <see cref="sb54_CSAI.remoteInterfaces.RemotingObject">RemotingObject </see>
    /// by using the <see cref="sb54_CSAI.ClientApp.ClientRemoting">ClientRemoting </
see>
    /// getClientInterface() method
    /// </summary>
    private void SetUpRemoting()
    {
        oRemService = ClientRemoting.getClientInterface();
    }

    /// <summary>
    /// Simply show an Exception message to the user
    /// </summary>
    /// <param name="exMsg">The Exception string to show</param>
    private void showRemotingMessage(String exMsg)
    {
        MessageBox.Show("Problem with Remoting in FrmClient : " +
            "\r\n\r\n\r\n" + exMsg +
            "\r\n\r\n\r\n" +
            "Re-MP3 Server application must be running in order to use\r\n" +

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        "the Re-MP3 Client, perhaps the Re-MP3 Server machine (" +
        CliConfigInfo.svrAddress + ") \n" +
        "or Re-MP3 Server application have been shutdown",
        "Remoting Services ERROR", MessageBoxButtons.OK,
        MessageBoxIcon.Error);
    }

    /// <summary>
    /// Simply shows about form
    /// </summary>
    private void showAboutForm()
    {
        try
        {
            oFrmAbout = new FrmAbout();
            oFrmAbout.ShowDialog(this);
        }
        catch (Exception ex)
        {
            MessageBox.Show("Problem with loading oFrmAbout " +
                "\r\n\r\n\r\n" + ex.Message,
                "Form Loading ERROR", MessageBoxButtons.OK,
                MessageBoxIcon.Error);
        }
    }

    /// <summary>
    /// Calls the correct operation of the
    /// <see cref="sb54_CSAI.remoteInterfaces.RemotingServiceClass">RemotingServiceClass
    </see>
    /// </summary> as dicatated by the user selected operation. For example if the user
    /// selected FF the RemoteExecuteFF() method will be called
    /// <param name="sender"></param>
    /// <param name="e"></param>
    private void uctClientTrackList1_RemoteOperations(object sender, SB54_CSAI.
    ClientTrackList.RemoteEventArgs e)
    {
        //get the operation type
        SB54_CSAI.ClientTrackList.RemoteOperationType opType=e.OperationType;

        switch(opType)
        {
            //REW OPERATION
            case SB54_CSAI.ClientTrackList.RemoteOperationType.REW:
                try
                {
                    oRemService.RemoteExecuteREW();
                    //now go and get the Server track list items, keep the Client and
                    Server in synch
                    showServerTracks();
                }
                catch (Exception ex)
                {
                    showRemotingMessage(ex.Message);
                }
                break;

            //FF OPERATION
            case SB54_CSAI.ClientTrackList.RemoteOperationType.FF:
                try
                {
                    oRemService.RemoteExecuteFF();
                    //now go and get the Server track list items, keep the Client and
                    Server in synch
                    showServerTracks();
                }
                catch (Exception ex)
                {
                    showRemotingMessage(ex.Message);
                }
            }
        }
    }

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    }
    break;

    //ADD_FILES OPERATION
    case SB54_CSAI.ClientTrackList.RemoteOperationType.ADD_FILES:
        try
        {
            oRemService.RemoteExecuteADD_PLAY(e.PlayableFiles);
            //now go and get the Server track list items, keep the Client and
Server in synch
            showServerTracks();
        }
        catch (Exception ex)
        {
            showRemotingMessage(ex.Message);
        }
        break;

    //CLEAR_ADD_FILES OPERATION
    case SB54_CSAI.ClientTrackList.RemoteOperationType.CLEAR_ADD_FILES:
        try
        {
            oRemService.RemoteExecuteCLEAR_PLAY(e.PlayableFiles);
            //now go and get the Server track list items, keep the Client and
Server in synch
            showServerTracks();
        }
        catch (Exception ex)
        {
            showRemotingMessage(ex.Message);
        }
        break;

    //PLAY OPERATION
    case SB54_CSAI.ClientTrackList.RemoteOperationType.PLAY:
        try
        {
            oRemService.RemoteExecutePLAY();
            //now go and get the Server track list items, keep the Client and
Server in synch
            showServerTracks();
        }
        catch (Exception ex)
        {
            showRemotingMessage(ex.Message);
        }
        break;

    //STOP OPERATION
    case SB54_CSAI.ClientTrackList.RemoteOperationType.STOP:
        try
        {
            oRemService.RemoteExecuteSTOP();
            //now go and get the Server track list items, keep the Client and
Server in synch
            showServerTracks();
        }
        catch (Exception ex)
        {
            showRemotingMessage(ex.Message);
        }
        break;

    default:
        Console.WriteLine("uctClientTrackList1_RemoteOperations : Invalid
selection.");
        break;
    }
}
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    /// <summary>
    /// Create and start a new thread to respond to the new tracklist event
    /// </summary>
    private void startWaitingThread()
    {
        //Create and start the reader thread.
        myThread = new Thread(new ThreadStart(MyReadThreadProc));
        myThread.Name = "waitThread";
        myThread.Start();
    }

    /// <summary>
    /// Call the <see cref="sb54_CSAI.remoteInterfaces.RemotingObject">RemotingObject </
see>
    /// on the newly created thread at the client. Which should block this thread UNTIL
there
    /// is a new track available at the server, then the <see cref="sb54_CSAI.
remoteInterfaces.RemotingObject">
    /// RemotingObject </see> will release this thread, at which point the
    /// string representing the trackname is returned by the the <see cref="sb54_CSAI.
remoteInterfaces.RemotingObject">
    /// RemotingObject </see> and the ReMP3 client will then use this trackname to see
if
    /// the client tracklist contains this track and will make the track BOLD if it has
the track.
    /// The client thread, then recursively calls this <see cref="sb54_CSAI.
remoteInterfaces.RemotingObject">RemotingObject </see>
    /// method and the entire process starts again.
    /// </summary>
    private void MyReadThreadProc()
    {
        string currTrackAtServer=oRemServive.getTrack();
        uctClientTrackList1.currentTrackName = currTrackAtServer;

        MyReadThreadProc();
    }

    /// <summary>
    /// Will attempt to get <see cref="sb54_CSAI.ServerApp.FrmMain">ServerApp FrmMain</
see> to call the
    /// getTrackList() method of the <see cref="SB54_CSAI.MediaPlayerControl.
uctMediaPlayer">Embedded Media Player</see>
    /// control. Then these server files are added to this client track list
    /// </summary>
    private void showServerTracks()
    {
        try
        {
            //now get the matching server list of tracks
            string[] serverplayerFiles = oRemServive.RemoteGetPlayerTracks();
            if (serverplayerFiles.Length > 0)
            {
                uctClientTrackList1.clearList();
                uctClientTrackList1.addFiles(serverplayerFiles);
            }
        }
        catch (Exception ex)
        {
            showRemotingMessage(ex.Message);
        }
    }

    /// <summary>
    /// Event handler that occurs when the user selects the AddFiles menu within the
    /// <see cref="SB54_CSAI.MediaLibrary.uctMediaLibrary ">embedded media library </
see>
    /// </summary>
    /// <param name="sender">The source object that raised the event</param>
    /// <param name="e">The event arguments</param>
    private void uctMediaLibrary1_addFiles(object sender, SB54_CSAI.MediaLibrary.
AddFilesEventArgs e)

```

```
{
    //add files from media library to track list
    uctClientTrackList1.addFiles(e.PlayableFiles);
}

#region GUI Interactions

/// <summary>
/// The Client application is closing so ensure that the extra thread that was
created to deal with
/// the retrieval of the current media track, is aborted.
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void FrmClient_Closing(object sender, System.ComponentModel.CancelEventArgs e)
{
    //abort the thread on closing
    myThread.Abort();
}

/// <summary>
/// Event handler that occurs when the FrmClient is Closed
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void FrmClient_Closed(object sender, System.EventArgs e)
{
    Application.Exit();
}

/// <summary>
/// Event handler that occurs when the oMnuTrackList is clicked. Simply shows the
Tracklist tab
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void oMnuTrackList_Click(object sender, System.EventArgs e)
{
    selectTab(0);
}

/// <summary>
/// Event handler that occurs when the oMnuMedia is clicked. Simply shows the
Media Library tab
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void oMnuMedia_Click(object sender, System.EventArgs e)
{
    selectTab(1);
}

/// <summary>
/// Selects the tab, as specified by the index parameter
/// </summary>
/// <param name="index">The tab index to select</param>
private void selectTab(int index)
{
    oTabControll1.SelectedIndex =index;
}

/// <summary>
/// Event handler that occurs when the oMnuExit is clicked. Simply Closes the ReMp3
client
/// if the user confirms the close operation
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void oMnuExit_Click(object sender, System.EventArgs e)
{
    DialogResult dlgResult = MessageBox.Show("Are you sure you want to quit",
        "Confirmation", MessageBoxButtons.YesNo,
```

```
        MessageBoxIcon.Question);
    if (dlgResult == DialogResult.Yes)
    {
        //once application stops, this code is run
        try
        {
            Application.Exit();
        }
        catch(Exception ex)
        {
            MessageBox.Show("Problem with Remoting in FrmMain : " +
                "\r\n\r\n\r\n" + ex.Message,
                "Remoting Services ERROR", MessageBoxButtons.OK,
                MessageBoxIcon.Error);
        }
    }
}

/// <summary>
/// Event handler that occurs when the oMnuAbout is clicked. Simply shows the
/// About form
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void oMnuAbout_Click(object sender, System.EventArgs e)
{
    showAboutForm();
}

/// <summary>
/// Load the help for for the currently selected tab
/// </summary>
/// <param name="sender">The source object that raised the event</param>
/// <param name="e">The event arguments</param>
private void oMnuHelp_Click(object sender, System.EventArgs e)
{
    //find out which tab is active
    string currentTab = oTabControl1.SelectedTab.Text;
    string currenthelpTopic="";

    //which help topic should be shown
    switch(currentTab)
    {
        case "Track List":
            currenthelpTopic="Track List.htm";
            break;
        case "Media Library":
            currenthelpTopic="Media Library.htm";
            break;
        default:
            currenthelpTopic="Home.htm";
            break;
    }
    //now show the help
    Help.ShowHelp(this,Application.StartupPath + @"\ClientApp_HELP\ClientApp.chm",
currenthelpTopic);
}
#endregion

#endregion
}
#endregion
}
```