

MEDIA CENTER CONTROL – MANUAL

WINDOWS MOBILE EDITION VERSION 1.5.7

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2 Introduction

This manual is to facilitate the installation and use of Media Center Control. The focus in the development of this application was to keep the operation as simple and intuitive as possible. I hope I have got it right.

There are many different software remote controls for the Windows Media Player or the Windows Media Center on the market. But they always try to immitate a usual remote control and not improve it. Media Control Center follows a different approach. The basic idea was to shift the user interface from the computer to a portable device and to keep as simple as possible. Through this implementation, the media playback is never overshadowed by a menu. You can for example watch TV while you browse the TV program.

Because there was no such software on the market, I started about two years ago to develop a concept that can do exactly this. And why not using the mobile phone you have in your pocket every day? The idea was almost perfect. And because I'm already a Windows Mobile fan for quit a long time, I naturally choose this platform.

So after two years of programming this software for this remote control for Windows Media Player and Windows Media Center I finally called it Media Center Control (MCC). I hope you like it just like I do it.

3 Installation

The installation of Media Center Control (MCC) is simple and, depending on the variant of two or three parts. The first set up does require a few steps and will in the next chapter explains step by step.

3.1 The components

The installation consists of three components. Depending on whether you use Windows Media Player or Windows Media Center, two or three of the components are required. To install the components you start the installer and execute these steps one by one. After starting you see the following screen from which you can install the components.

Media Center Control

Step 1: Install Media Center Control on your PC

Step 2: Install Media Center Control on your smartphone

Step 3 (optional): Install Media Center Control Addin for Windows Media Center

Exit

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3.1.1 Install Media Center Control on the computer

The component which will be installed in step 1 of the installation program on your computer, is also known as MCC server. This component is the heart of MCC and has to be installed on your Microsoft Windows computer. All communication from MCC runs on the server and is then passed on to the Media Player or your smartphone.

*Note: If you update MCC you can install the components over the existing installation.
You always have to update all used components.*

To install MCC on your computer click on Step 1 in the installer. The server will be installed automatically. There is no more input needed. The configuration is carried out later and is explained in the next chapter.

3.1.2 Install Media Center Control on your smartphone

The second component is the software you use on your smartphone, and therefore is the actual remote control software. The component is also known as MCC client. The choice you make in this software will be converted into control commands transmitted via bluetooth or network to the server which processes these commands or transmits them to the playback program.

Note: It is recommended to use the bluetooth connection, as this requires less battery power than for example a WiFi connection. The bluetooth connection will also be available even if the smartphone goes into standby mode.

To install MCC on your phone, you first need a connection between your computer and the smartphone established with Windows Mobile Device Center. You should know this process when you synchronize with Outlook or other software installed.

When the connection with the Windows Mobile Device Center is made, start second step in the installer, which performs the installation. After the application is transmitted, MCC is installed on your device. Possibly you must confirm the installation on the device separately. You will be asked whether you want to install the application on the device or memory card. It is recommended that the application is installed on the device. An operation from the memory card also works, but slows down the launch and operation of MCC.

The configuration of the MCC clients is carried out later and explained in the next chapter.

3.1.3 Installing the Windows Media Center Addin

If you have owned Windows Home Premium, Windows Ultimate, or Windows Enterprise, the Windows Media Center is included in Windows and you have the choice whether you prefer Windows Media Player or Windows Media Center as your default player.

For use with the Windows Media Center, the third component is needed. This component is a Media Center addin, which is needed to transmit the control commands from the MCC server to the Media Center.

If you have not yet decided for Windows Media Center, or rather prefer the Windows Media Player, you can install the addin later. I recommend to install the addin because the selection of the preferred playback program is available at any time in the MCC server on your computer. So it is better if the addin is already installed for future use.

To install the addin you start step 3, which executes the installation. After installation, a reboot of your computer is necessary. Please reboot your computer now.

4 Initial configuration

Before we start with the configuration, I present briefly the possibilities, resulting from the different techniques. You need not commit yourself immediately because you can always try the various options in the settings.

4.1 Choice of connection type

After completing the installation, we come now to the more challenging part. First, you should consider what type of connection you prefer. There are two to choose from. These are the connection via bluetooth (serial profile) or network (WiFi, WLAN, LAN, ActiveSync). If your computer does not have bluetooth support, this is not a problem. Several very good and cheap bluetooth USB adapters are on the market which can be installed without much effort. Just look at the internet shop or dealer you trust and you will find very good offers.

The bottom line is, you do not have to commit yourself because you can operate both types in parallel. However, I want to suggest the connection via bluetooth for everyday usage, because it requires the least battery power and is not disabled by the smartphone when the device is put into standby mode. Bluetooth has two very clear advantages. A WiFi connection is usually disconnected from the smartphone when the device is in standby. For me personally, a major disadvantage, because the connection to the MCC server is lost. However, there is a possibility described in the

internet, how to make a WiFi connection to stay permanently. But even then the battery is used more and it is perhaps necessary to configure the system settings of your phone.

Let's look at the advantages and disadvantages of both types of connections in a table. A plus (+) or green background indicates a positive feature and a minus (-) with a red background a negative one.

| | Bluetooth | Network (WiFi) |
|------------------------|---------------------|---------------------|
| Power Consumption | + | - |
| Reach | - (up to 20 meters) | + (even >20 meters) |
| Active Standby | + | - |
| Internet operation | - | + |
| Wake up computer (WOL) | - | + |

As you can see, both connection types have their advantages and disadvantages. If you want MCC also to operate on the internet, for example to schedule recordings remotely, you can also set both connection types. So you would have the choice at any time you start MCC on your smartphone.

4.2 Setting up the bluetooth connection

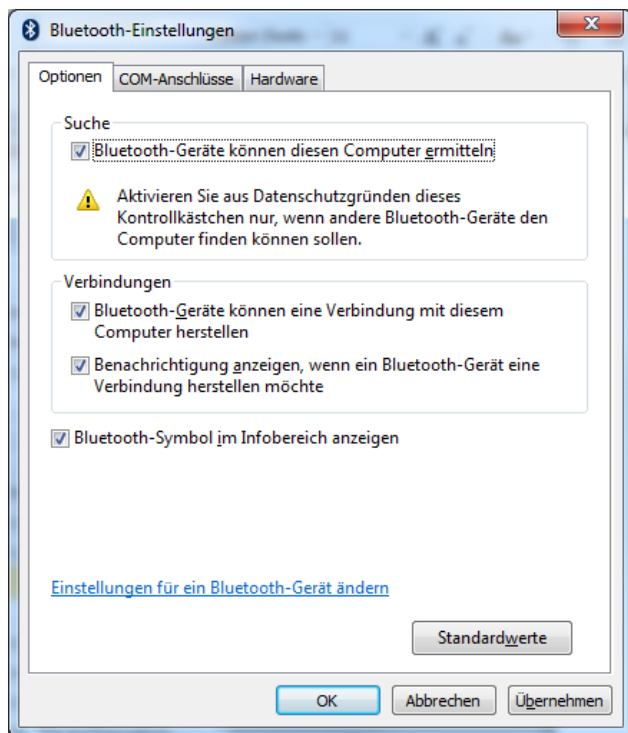
In order to your smartphone and your computer communicate using bluetooth, a predetermined connection is required. The two devices need to know and trust each other (pairing).

If the bluetooth adapter in Windows is successfully installed, the toolbar has an corresponding bluetooth icon. Possibly you have installed a third-party bluetooth adapter software. In this case, please read the manufacturer's instructions for setting up a bluetooth partnership (pairing) between two devices.

4.2.1 Bluetooth partnership set up in Windows 7

Open the bluetooth settings on the bluetooth icon in the toolbar or the Control Panel.

Make sure that the computer can be seen by other bluetooth devices. Check the hook "Bluetooth devices can find this computer". The settings should look like this.



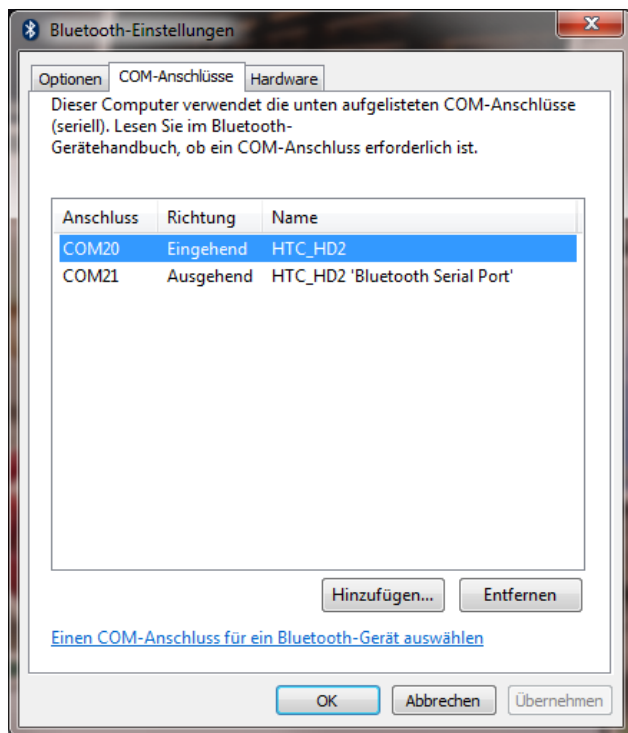
Open now the bluetooth settings on your smartphone and add a new device. Your computer should now be listed. Choose your computer. You now need to assign a password, which you then have to confirm on your computer. The partnership is now established.

You can then turn off the option "Allow bluetooth devices to find this computer" again.

4.2.2 Create bluetooth serial port on Windows 7

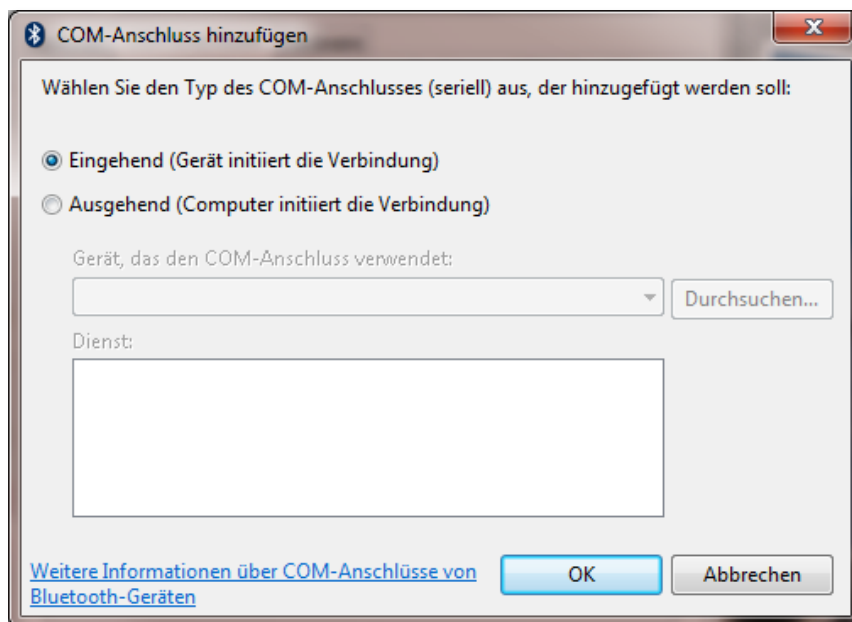
Is the partnership is established you can create the required incoming bluetooth COM port if it has not already been created automatically.

Check first the following list on a automatically created incoming connection.



On this screen you can see, that it has been already automatically created a connection with the name COM20. You now need nothing more to do than to write down this port name.

If no connection was added automatically, select "Add...".



This window can now be confirmed with "OK" if "Incoming" is highlighted. You should now see, like in the picture before, a new connection. Write down the port name (eg COM20) for later usage.

4.3 Setting up the network connection

If you are running a router with WLAN/WiFi support, you can use this with MCC. If you have not yet connected your phone to the router, please read the manufacturer's operating manual to connect between your router and the smartphone via WLAN/WiFi.

If the network is set up you need to configure the MCC client local network address or computer name of the computer on which you have installed the MCC server. The best is you always use a computer name and let the operating system determine the network address.

Note: Normally one does not work with network addresses and instead use easy to remember names. The use of a network address with MCC is required only in rare cases.

To determine the computer name, you open a command prompt (Start> Accessories> Command Prompt) and enter the command "hostname". Acknowledge it with ENTER and the computer name will be displayed. Write down the name for the configuration of the MCC client.

If you want to work with a network address, you enter the command "ipconfig" at the command prompt instead. Note the number under the entry "IPv4 address" for the configuration of the MCC client.

4.4 Setting up the connections in MCC server

After you have installed the server component of MCC, the shortcut can be found in the start menu of your computer.

You can reach the settings of the MCC server over the icon in the taskbar in the right pane. This area is called the toolbar.



Click on the icon with the right mouse button and then select the menu item "Settings...". Alternatively, you can open the settings by double-clicking the icon.

In the "Server settings" you will find the options to allow bluetooth or network connections and you can set the appropriate ports.

- If you want to allow bluetooth, set the hooks and then select the bluetooth port you have noted previously when setting up the bluetooth connection. In the example that was the port "COM20".
- Do you want to allow network connections to MCC, set the hook. The default network port can be changed if needed, but this is only necessary in rare cases.

In general, the Windows Firewall is enabled. If MCC should work on network, relevant special rules for the firewall has to be configured. This task can do MCC for you by simply pressing the button "Configure Windows Firewall."

If your computer is a pure Media Center PC, or you want the program be available right after the launch of Windows, it is recommended to set the option "Start MCC when Windows starts".

4.5 Election of the playback program

The choice of the playback program is probably easier for you. Either you use the powerful Windows Media Center, or you prefer the diversity of the Windows Media Player. With just a few clicks in the settings you can change the desired playback program at any time.

Note: The Windows Media Center is available to you only with Windows Home Premium, Windows Ultimate and Windows Enterprise.

To adjust the playback program, open the tab "Playback" in the MCC server settings and then select the desired playback program.

The configuration of the MCC server is now completed. Certainly, there are still more options available. These are explained in detail in the chapter "Overview of all settings".

4.6 Configuration of the smartphone

We come to the final step of the configuration. After MCC has already been installed on your smartphone, you will find two shortcuts in the start menu. One to start MCC and one to change the settings.

Important: For the following configuration, the MCC server has to be already configured and started. It is also assumed that you have set as previously described a connection between the computer and smartphone.

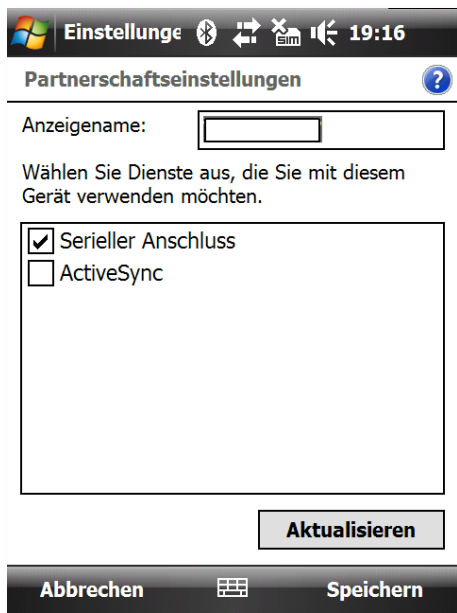
4.6.1 Prepare bluetooth

Have you already activated bluetooth in MCC server and the two devices know each other (keyword pairing)? Very nice. But before we can configure the MCC client settings, we have to create a bluetooth serial port in the bluetooth settings on your smart phone. This varies from device to device. I explain here the two most commonly known bluetooth stacks. If you have one other bluetooth stack, please read the instructions of the manufacturer. The procedure is however very similar and can be easily adapted.

Microsoft Bluetooth Stack

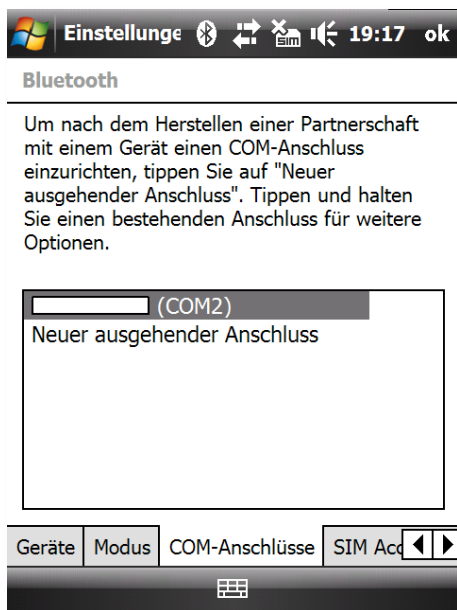
1. On the Windows computer, you have already created a bluetooth connection and this is noted (in the example it was COM20). The MCC server on your computer is configured on this port and started. The icon in the toolbar is not colored red.
2. Open the bluetooth settings on your smartphone.
3. You will see the partnership to your computer. Open its properties and then select "Update".

4. Turn off "ActiveSync" and enable the hook for "Serial Port". Click "Save."



Note: If the entry "Serial port" does not appear, it may be because the MCC server is not fully configured or started. Please read the chapter "Setting up the bluetooth connection" and "Setting up the connections in MCC server" and check the settings.

5. Select the tab "COM Ports" and then "New Outgoing Port".
6. Select your computer and then an available port.

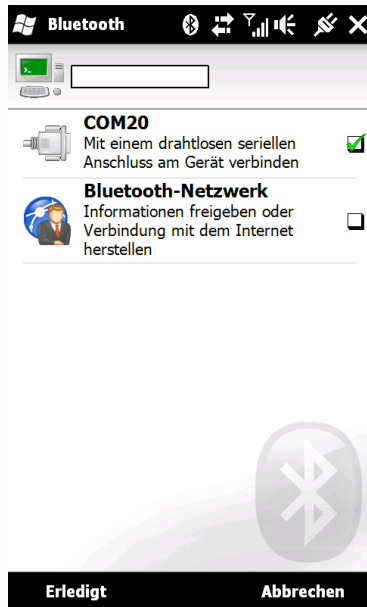


Note the selected port to enter it in the MCC client settings later (in the example, it is COM2).

Broadcom Bluetooth Stack

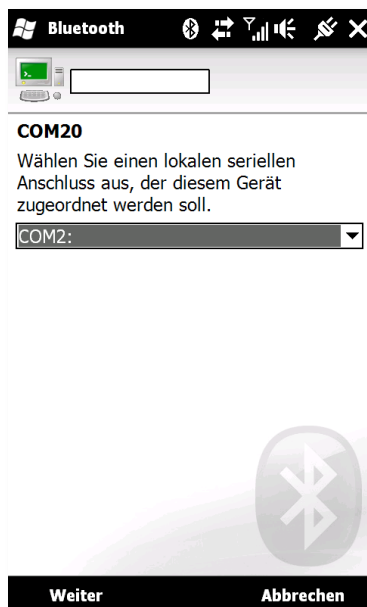
1. On the Windows computer, you have already created a bluetooth connection and this is noted (in the example it was COM20). The MCC server on your computer is configured on this port and started. The icon in the toolbar is not colored red.

2. Open the bluetooth settings on your smartphone.
3. You will see the partnership to your computer. Press it until the context menu opens. Now, select "Update".
4. Select the serial port from the list, which you have previously created on your computer and noted. Then choose "Done".



Note: If the serial port are displayed, it may be because the MCC server is not fully configured or started. Please read the chapter "Setting up the Bluetooth connection" and "Setting up the connections in the MCC server" and check the settings.

5. Choose from one of the free local serial ports and select "Next".



Note the selected port to enter it in the MCC client settings later (in the example, it is COM2).

4.6.2 MCC client settings

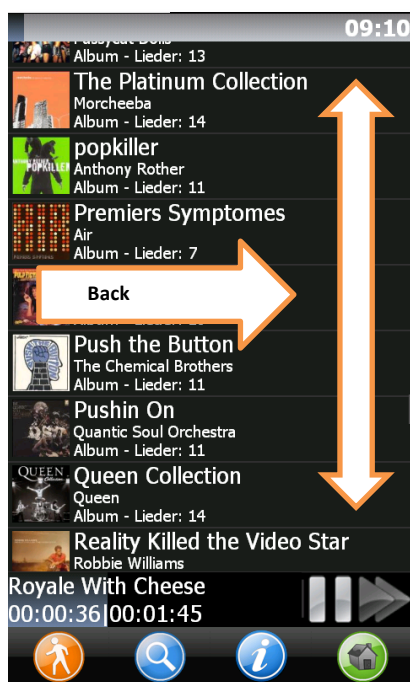
At this point, all components are installed and the MCC server and the player you have chosen must be started. If you use Bluetooth, you have created a partnership between the devices and a

bluetooth serial port. You also made note of a bluetooth port or a computer name that you can now set to the MCC client settings.

In the start menu of your smartphone, you will find a shortcut you can open the MCC client settings with. Now you see the surface of MCC for the first time. Therefore at this point, I would like to briefly explain the operation of the list overview to you.

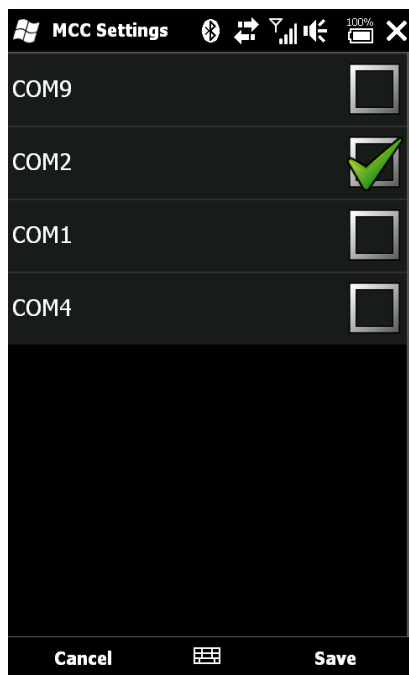
To move the list up or down, you touch the list and move the finger directly in a vertical direction. The list will move accordingly. With the touch of a list entry will bring you to the appropriate sub-menu or activate or deactivate the selected option. You can go back in the list at any time by touching the list on the left side and taking your finger directly horizontal movement to the right. You should remember this. These finger gestures are the basic control of MCC on your smartphone.

To save the settings click on "Save". To discard the settings and exit, select "Cancel".



4.6.3 Setting the bluetooth connection

Select "Bluetooth port" in the MCC client settings. All available ports are listed. Select the port which you had previously noted (in the example, the COM2).



Do the gesture vertically from left to right to go to the previous menu.

Note: If you want to control multiple computers, you can also select multiple ports. At each start of MCC you can then select the desired port.

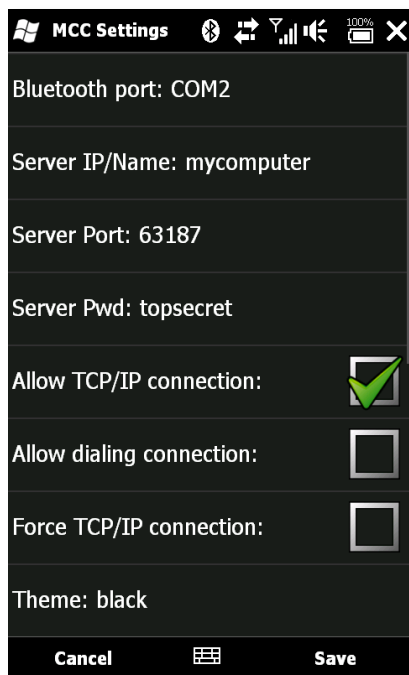
4.6.4 Setting the network connection

Choose "Server IP / Name" in the MCC client settings. This opens a list of already registered network addresses or computer names. The list is of course not yet filled. Now select "Add new host/IP". At the top is now a textbox displayed, in which you can enter the computer name or network address. Confirm with ENTER or touch the confirmation icon next to the text.

Note: If you want to control multiple computers, you can add multiple computer names to the list. Please note however, that the MCC server all with the same connection and the same password must be configured.

If you set a password for network connections to the MCC server, you can enter it by choosing the entry "Server pwd".

You must also enable the option "Allow network connection". If the option is not activated, MCC is not able to establish a network connection.



If you only want to use the network connection and do not need bluetooth, you should activate the option "Force network connection". This forces MCC to immediately establish a network connection.

You can also use MCC over the Internet. If you want MCC to automatically create a dialup connection to the internet if no other connection (eg WiFi) exists, activate the option "Allow dialing connection". When disabled you have to - if desired - connect to the Internet manually.

Now, select "Save" at the bottom of the screen to save the settings. You will be asked whether you want to start MCC directly. Why not...

4.6.5 Here we go - The first launch of MCC

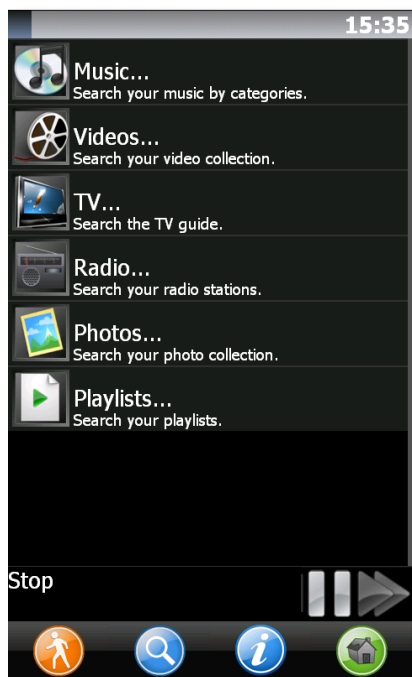
Finally! The time has come. What you now get to see depends on which settings you have made and which Windows Mobile version you use.

Have you configured the network for MCC and not the option "Force network connection" enabled, you will be asked whether you want to connect via network or bluetooth.

Note: If you have configured multiple computer names or bluetooth connections, you are asked which computer you want to connect.

If you have configured bluetooth, and not connect via network and the Broadcom bluetooth stack is installed, you will be prompted to select the serial port. Unfortunately there is no option to skip this query. In the bluetooth stack from Microsoft this step is not required.

If all goes well and the connection is established, you will see the main menu of MCC. Now you can start browsing you media library. If no connection could be established, you get an error message.



5 Overview of all settings

The settings that are essential for the operation of MCC, you have already met in previous chapters. There are also other settings. All settings available are briefly described in this section.

5.1 Settings of the MCC server

5.1.1 Main Settings

| Server settings | Description |
|-------------------------------------|--|
| Enable Bluetooth connections | Enables or disables the ability to connect via bluetooth with MCC. |
| Bluetooth port | Selects the port for bluetooth connectivity. |
| Enable network connections | Enables or disables the ability to connect via network with MCC. |
| Network port | Selects the network port for the network connection. This should normally not be changed. |
| Allow internet access to MCC | Enables or disables internet access with MCC. This option must be enabled, so you can access MCC through an internet router from the distance. |
| Start MCC with Windows | Enables or disables the automatic startup of MCC (and the playback program) when starting Windows. |

| Transmit options | Description |
|---|--|
| Sort by user ratings only | The normal sort order also takes into account the automatic ratings which are created by Windows. If this option is enabled, MCC sorts by user ratings only. |
| Hide Windows automatic playlists | If this option is enabled, the automatically generated playlists are not transferred to the client. |

5.1.2 Playback

| Player | Description |
|--------------------------|---|
| Use Windows Media Center | If Windows Media Center is available on your computer, you can set it as the default player for MCC. |
| Use Windows Media Player | The Windows Media Player is available on all Windows Vista and Windows 7 operating systems and may be the default player for MCC. |

| Fullscreen | Description |
|--|--|
| Switch to fullscreen if video is playing | Enables or disable the automatic switch to full screen mode when a video or photo is played. This function is only supported with Windows Media Player. |
| Switch to fullscreen if audio is playing | Enables or disable the automatic switch to full screen mode when audio is played. This function is only supported with Windows Media Player. |

| Volume | Description |
|------------------------------|--|
| Set system volume on startup | Enables or disables the automatic system volume setting on startup. This take effect if the computer was switched off or was in power saving mode (standby). |
| Set player volume on startup | Enables or disables the automatic player volume setting on startup. This take effect if the computer was switched off or was in power saving mode (standby). This function is only supported with Windows Media Player. |

5.1.3 Television (TV)

| Electronic Program Guide | Description |
|--|--|
| Minimal rating for TV shows in the best shows list | The broadcasts particularly worth seeing are rated by a vote of 1-4, in the form of stars. Here you can specify at what threshold programs in the list of the best programs are shown. This function is only supported with Windows Media Center. |
| Sort TV channels by most viewed | Enables or disables the descending order of television channels by watched duration. If the option is disabled, the channels are ordered by channel number. This function is only supported with Windows Media Center. |
| How many TV shows should the server send (hours) | Sets how many entries in hours should be returned from the EPG. |
| How many results should the server send | Sets the maximum number of entries that are returned for a search. |
| Prime-Time | Sets the prime-time. |

5.1.4 Movies

| Movie folders | Description |
|---------------|-------------|
|---------------|-------------|

| | |
|---------------|--|
| Add | Here you have to enter all your directories with movie content. With „Add“ you can add a new movie folder. |
| Remove | Removes the selected movie folder form the list. |

5.1.5 Advanced settings

| Sleep timer | Description |
|---|---|
| Sleep timer set your computer to standby | If this option is enabled, MCC will put your computer into standby if you switch the computer off from MCC. Scheduled recordings can resume the computer from standby mode. |
| Sleep timer will shut down the computer | If this option is enabled, MCC will shut down your computer if you switch the computer off from MCC. Scheduled recordings will not be recorded if the computer is shut down. |
| Sleep timer set your computer to hibernate | If this option is enabled, MCC will put your computer into hibernate if you switch the computer off from MCC. Scheduled recordings can resume the computer from hibernate mode. |

| Media Center | Description |
|---------------------------------------|---|
| Startpage | Sets the startpage of the Windows Media Center. |
| Hide the addin startup message | If this option is enabled, the MCC addin startup message in Windows Media Center is suppressed. |

| Storage locations | Description |
|--------------------------|--|
| Path to videos | Windows Vista is not supporting the media library. Therefore you must specify the location of your videos. This is only needed on Windows Vista. |
| Path to images | Windows Vista is not supporting the media library. Therefore you must specify the location of your images/photos. This is only needed on Windows Vista. |
| Path to records | Windows Vista is not supporting the media library. Therefore you must specify the location of your records/recordings. This is only needed on Windows Vista. |

| MKV video support | Description |
|--|--|
| Allow media library inventory MKV files | This option enables or disables the inventory of MKV files to the Windows Media Library. |

5.2 Settings of the MCC Client

| Connection Settings | Description |
|----------------------------|---|
| Bluetooth port | Here the used bluetooth port is selected. |
| Server IP/Name | Here the computer names or network addresses of the |

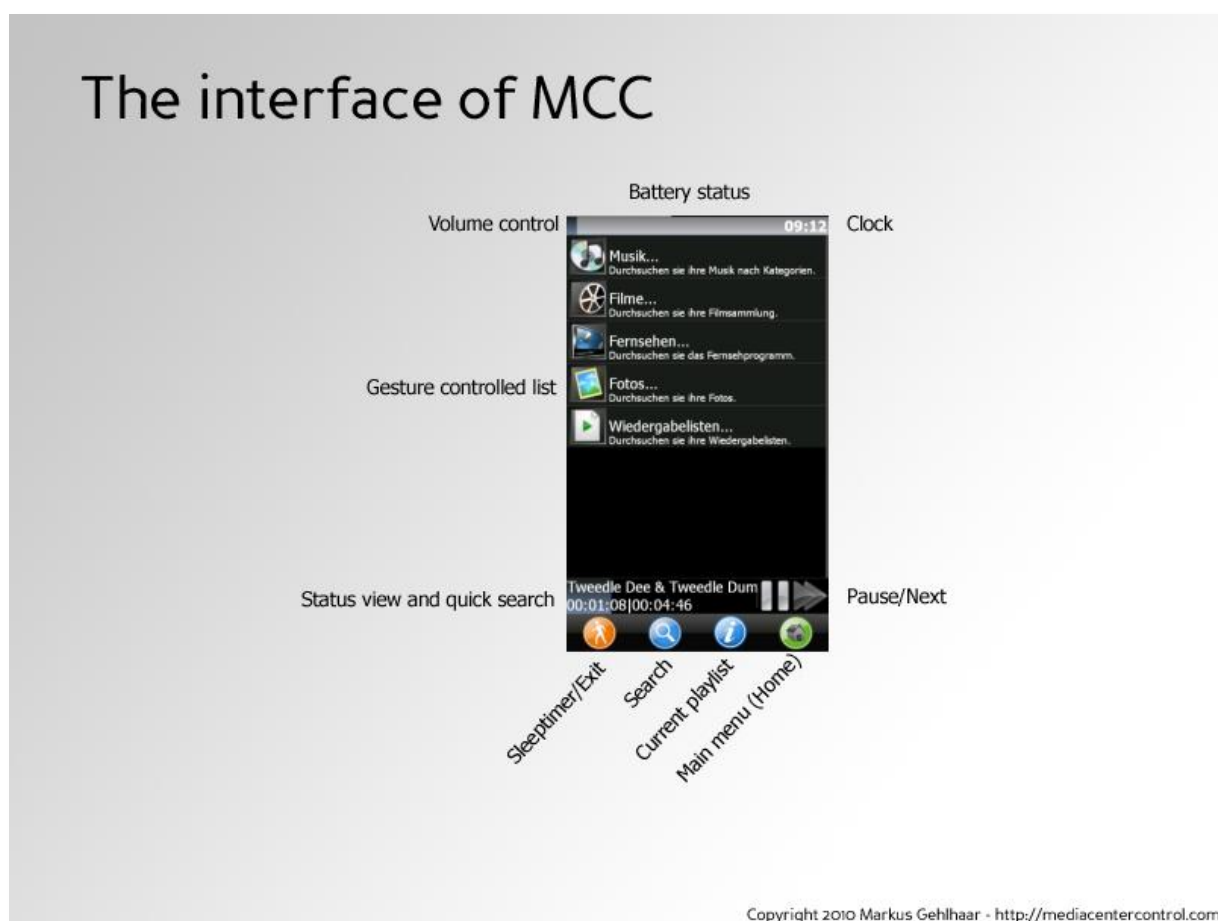
| | |
|---------------------------------|--|
| | computers you want to control are set. You can also set a MAC address to wake up the computer. A MAC address you add, by touching the computer in the list and hold until the context menu is displayed. Then choose "Edit MAC for WOL ...". |
| Server port | Here, the network port is set, which you have set in the MCC server settings. As a rule, the port must not be changed. |
| Server pwd | Here the password is entered, which is needed to connect with the MCC server. |
| Allow network connection | Enables or disables the connection over network. |
| Allow dialing connection | Enables or disables the auto-connect to the internet. If this option is activated it may incur additional costs. Note the costs for internet connectivity with your mobile phone contract. |
| Force network connection | Enables or disables forcing a network connection. When enabled, only connection via network is possible. |

| Other settings | Description |
|-------------------------|---|
| Cover cache | The path for storing the cover art and station logos. This path should always refer to a directory on the storage card. |
| Theme | Here you can choose which design to use MCC to customize the look you like. Under http://mediacentercontrol.com you can find more themes. |
| Default action | Sets the default behavior for touching list entries. The following options are available: <u>Play</u> : The selected item in the list is played immediately. <u>Context</u> : Opens the context menu for the selected list entry. <u>Details</u> : Opens the details view of the selected list entry. |
| Screen off after | Specifies the time after the screen should be turned off and the device is put into standby mode. This setting is specified in minutes and takes precedence over the setting of Windows Mobile. |
| Sleeptimer beep | Enables or disables the sleep timer beep signal. If this option is activated and the sleep timer is active, MCC notifies you before turning off with a short beep. You then have the option to change the time. |
| Virtual remote | You can choose from one of the options. "Normal" uses a virtual remote with standard buttons and with "Gesture" you can control Windows Media Center with gestures to be able to control it "blind". The "Touchpad" option simulates a mouse cursor. |
| Big volume bar | Enables or disables the larger volume bar. |
| Allow landscape | Enables or disables the auto-rotate of the screen when you turn the device into the landscape view. |
| Allow reverse landscape | Enables or disables the auto-rotate of the screen when you turn the device into the reverse landscape view. |
| Mute on call | Here you set the volume behavior of an incoming call on your smartphone. The following options are available: <u>Do not mute</u> : The volume is not changed. <u>Mute on incoming call & talking</u> : The volume is reduced during ringing and during the conversation. <u>Mute while talking</u> : The volume is reduced only when answering the call. |

| | |
|---------------|--|
| Mute volume % | Specifies the amount of volume reduction when a call is incoming in percent. |
| Pause on call | Here you set the pause behavior for an incoming call on your smartphone. The following options are available: <u>Do not pause</u> : The playback is not stopped. <u>Pause on incoming call & talking</u> : The playback is paused for an incoming call, and during the call. <u>Pause while talking</u> : The playback will be paused if you answer the call. |

6 Using the MCC Client

The use of MCC is self-explanatory if you are already somewhat familiar with kinetic list views from other programs. Have a look to the surface of MCC in more detail on the following image.

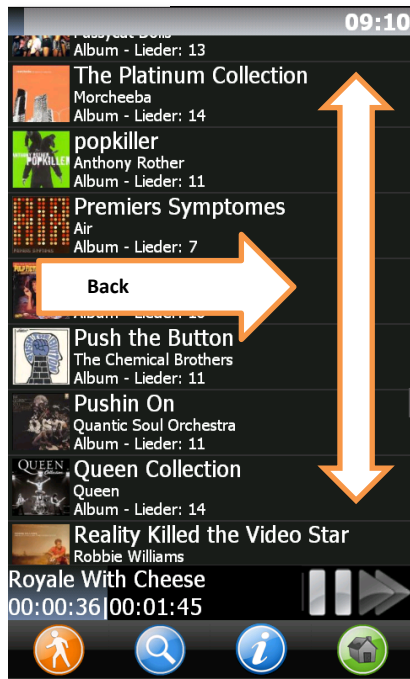


In the list view, you see the main menu of MCC. From here you go to all important areas.

6.1 The List view





To move the list up or down, you affect the list and move the finger directly in a vertical direction. The list will move accordingly. With the touch of a list entry will bring you to the appropriate sub-

menu or activate or deactivate the selected option. You are back in the list by touching the list on the left side and taking your finger directly horizontal movement to the right.



6.2 The function bar

The four main menu items you have on the bottom bar at any time. The buttons are assigned twice. Touching the button short will execute the main function and hold the button will execute the second function.

| Button | Function |
|---|--|
|  | Switch off/Sleep timer With this button you can turn off the computer and set the sleep timer. <i>Hold the button directly brings you to switch off.</i> |
|  | Search With this button you open the search bar with which you can find music, videos and TV shows quickly. |
|  | Current playlist With this button you open the current playlist. If you just look television, the television program is opened. <i>Hold the button opens the virtual remote control for Windows Media Center.</i> |
|  | Home With this button you come right back to the main menu of MCC. <i>Hold this button opens the settings.</i> |

6.3 The volume control

The volume control is located at the top. On the right side of the volume control, you always see the current time. If you touch the volume control with a finger, you can adjust the volume from 0-100%.

If you have activated the sleep timer, you will see the remaining minutes until the computer is turned off to the left of the time.

Directly above the volume control you can read the battery charge on a narrow line. If this line turns red, you should immediately connect your phone to a charger.




6.4 The status bar

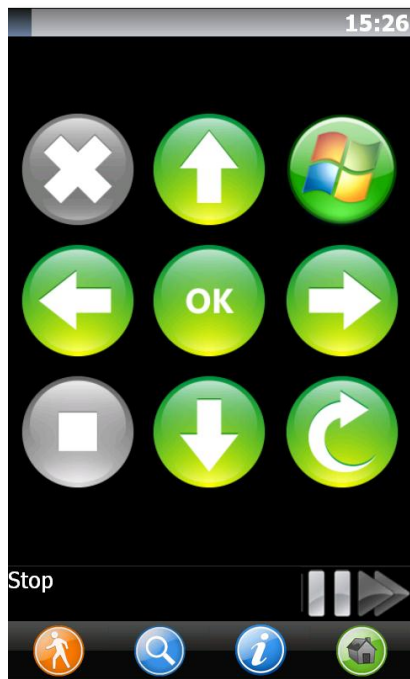
Directly above the toolbar with the buttons for quick access to the main functions you see the status bar. The status bar displays the current played theme. You see the title, current position and the total playing time. The bar is called the quick search bar and shows you to the current position. If you touch the quick search you can jump directly to the desired position. On the right side are the buttons to pause the playback and to jump to the next item into the playlist.




6.5 The virtual remote control for Windows Media Center

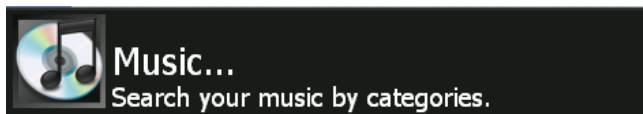
If you set the Windows Media Center as playback program, you can open the virtual remote with a long press of . Sometimes you need the ability to control the Windows Media Center conventionally.

In the MCC Settings you can choose between two modes. Normal mode displays the remote control in the form of buttons. In "Gesture" - mode no buttons are displayed, but you operated with gestures. The "Gesture" - mode therefore allows you to operate "blind". To do this, simply wipe in the direction you want with your finger. Short press corresponds with the OK button and with a long press you can move back a step.




6.6 Listen to music

In principle, MCC works like a slightly better MP3 player. First you pick "Music" from the menu, which can be reached at any time with  .




Now you can choose if you would like to browse through your albums, artists or genres. At this point you can also change the order of the songs by rating and enable/disable the shuffle and repeat mode.

After you e.g. have chosen to browse through your albums , you will after a short delay, see a list of all your albums. It should be mentioned that the list items, in this case albums, can not only be touched but also touching and holding until the context menu will appear. The context menu contains many useful functions that are hidden to provide more clarity. So you choose an album, open the context menu and select "Play". The selected album will now be played on your computer and on your phone you will see the current playlist.

With the gesture  you can now return to the list of albums to attach another album to the playlist. Keep one album touched until the context menu is displayed and then select "Add to playlist". The selected album will now be played right after the currently playing album.

By briefly touching a album, the individual songs on this album appears and you can then pick a song directly. Touch any song and select "Play". MCC is now adding all the songs that are in the list and save a new playlist and then play it.

You can move at any time during playback through other menus. If they want to see what songs are in the playlist, you only need to touch  and the playlist is displayed. The song that is playing is highlighted with a colored background.

Touch again one of the songs in the playlist. You will notice that the context menu opens and there are new features included. Perhaps you expected that the selected song is played back immediately? The default setting of MCC prevent exactly that, to prevent accidental play. Touching the screen happens too often inadvertently. It would be annoying if it every time interrupts the playback. You can change the default behavior in the MCC client settings if you wish.

For all media (music, videos, photos, and television), there is always the shortcut "Show Details ..." in the context menu. About this point, you get more information. Perhaps the most important thing at this point is that you can change the rating here.

Note: To remove the rating hold the button until all the stars are dark.

6.7 Watch videos

Just like you start listen to music videos are played. Select from the main menu "Videos".



The videos are listed according to their folders. You will find the video files so just as you are accustomed to Windows Explorer. Like with the music: Enter a video from the list again be played back all following videos one after the other, as long as until the list has reached the end or stop them playing. This is an advantage you may have missed in the Windows Media Center. With MCC you can view multi-part videos, movies, or documentation in succession without each time trying again to have the remote control. You can then start the sleep timer, and don't have to worry about switching off the computer.

In the details view, which you reach through the context menu, you can also change the rating of videos. However, these remain at a new installation of the computer does not receive, as is the case with music. This is a limitation of the Windows Media Player or Windows Media Center.

Note: To remove the rating stars you hold the button until all the stars are dark.

6.8 Watch movies

If you are using the Windows Media Center, you can watch your stored DVD's and movies here.

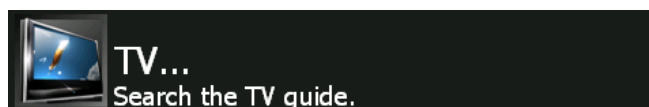


MCC can read and display metadata from "My Movies". For more informations read the chapter "How movies section works in MCC".

To navigate in the DVD menu, hold  down to open the virtual remote control.

6.9 Television (TV)

The most powerful feature of MCC. Through the "TV" from the main MCC to reach a variety of functions. You can for example always check everything that comes on TV or what you would like to add. And all this while you continue to watch TV. The TV image is superimposed at no time of dialogues, as you get everything displayed on your smartphone.



Here is an overview of the functions.

| Bezeichnung | Beschreibung |
|----------------------------|---|
| Channels | Here you get all channels. The channels are sorted by default for most viewed channels. You can change the behaviour in the MCC server settings. |
| Now | See what's on television now. This view is updated continuously and is also automatically sorted by most channels. The red bar in the background shows you how long the program is already running. |
| Prime Time | Here you get all the broadcasts in prime time, usually at 8:15pm. The prime-time settings can be adjusted in the MCC server settings. |
| Best of today | Here you can get all broadcasts, which are provided with an rating. The minimum rating setting can be adjusted in the MCC server settings. |
| Movies & series | Here you get all the movies and series appear to be screened today. |
| Favorite broadcasts | Here you get the broadcasts containing your favorite keywords. The favorite keywords can be set through the point "favorite catchwords". |
| Records | Here you get the recorded broadcasts. |
| Scheduled records | Here you get all broadcasts for which you have scheduled a recording. You can stop the recording at any time from the context menu. |
| Categories | Broadcasts are assigned to categories. Here you can seek and find items for these categories. |
| Favorite catchwords | Here you may enter the keywords on which interest you most and you want to see on „Favorite broadcasts“. |
| Appointments | You can easily create an appointment for broadcasts. Here you get displayed all at once. The appointments are created through the context menu and stored in the Outlook calendar. |

By selecting a television program to open the context menu, which includes the following features.

| Item | Description |
|----------------------|--|
| Show details | Shows the braodcasts details. |
| Show program | Shows all broadcasts of the channel. |
| Switch | Switch to the channel. |
| Record | Creates a schedule fort he broadcast. |
| Record series | Creates a series schedule for the broadcast. |

Create appointment

Creates an Outlook appointment for the broadcast.

Show schedulesShows all schedules for the broadcast.

6.10 Radio

You can get a list of all your radio stations with this option.



6.11 View photos

If you use the Windows Media Player as the playback program, photos behave just like music or videos. Simultaneous play of music and photos is not possible.

If you use the Windows Media Center, you can view photos in a slideshow and listen to music at the same time. The best way is you first start playing music and then start the slideshow.



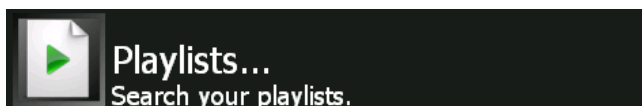
Photos are listed by their folders. You will find the photo files, so just as you are accustomed to Windows Explorer. Playback will start just as you have already met when playing music and video.

In the details view, which you reach through the context menu, you can also change the rating of photos. However, these remain at a new installation of the computer does not receive, as is the case with music. This is a limitation of the Windows Media Player or Windows Media Center.

Note: To remove the rating stars you hold the button until all the stars are dark.


6.12 Playlists

MCC also supports playlists. You can create your own playlists on your computer and then choose them on the point "Playlists" from the MCC main menu.




If you look at the playlists in MCC, you may notice that new playlists are added. These are automatically created and dynamic playlists. The content of these playlists is not static and is adjusted automatically as soon as appropriate content can be found in your media library. There is for example a play list for automatically five-star rated music or for the last three episodes of your favorite series.

6.13 Switch off computer and sleep timer


If you want to quit MCC, turn off the computer or use the sleep timer, you touch  in the bottom button bar.

To turn off the computer, select "Shut down". Depending on how you have configured the MCC server, the computer shuts down or is put into sleep mode.

Note: With touching  long, you can switch off your computer directly and without detours.

For the sleep timer you have different times from 30 to 240 minutes to choose from. Select the desired time to activate the sleep timer. Whether the sleep timer is activated to recognize the fact that appears to the left next to the time the remaining time until shutdown.



You can turn off the sleep timer, by once again pressing  and "Deactivate sleep timer" option. You can always choose another time to save some time to switch off or reduce.

Two minutes before the computer shuts down, turns on the display of their phone again and it will sound a short beep. If it means this can probably hear that you have not fallen asleep. The display automatically the menu of different times is displayed from which you can then select it again to one a little further to look or listen. This game can continue until you are actually asleep.

7 Wake on LAN – Wake computers

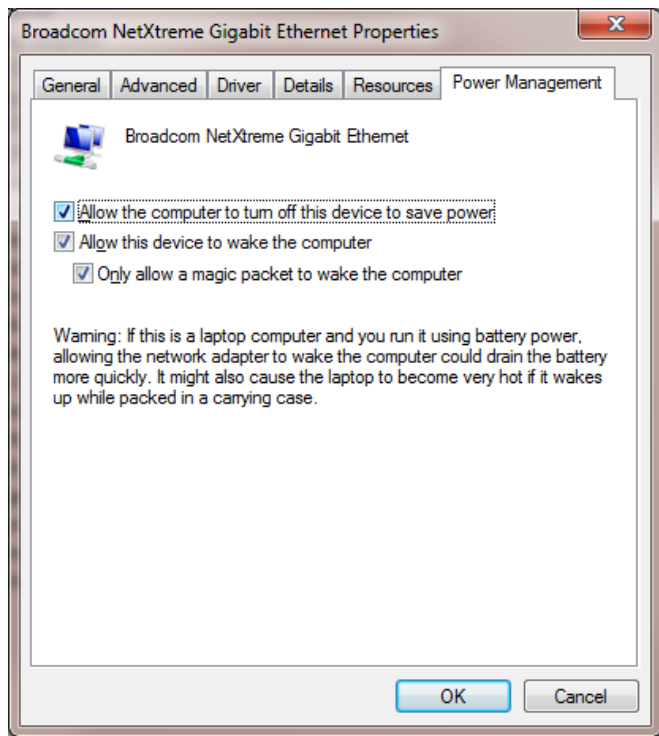
With MCC you can wake up your computer which is turned off or in standby mode. This is done with the technique Wake on LAN (WOL).

Note: The wake up only works over the network connection and not via the bluetooth connection.

The following conditions must be met so that you can use Wake on LAN.

1. The computer must have an internal LAN card. WOL does not work with wireless cards. The NIC must support WOL. The required cable must be plugged by the network card to the motherboard of your computer. This cable is located inside the computer.
2. The BIOS of your computer must support WOL. Check the BIOS settings of your computer for a setting called "Wake on LAN", "Allow computer to resume from network" or similar. Activate this function.
3. Windows must be configured accordingly. Open the Device Manager and under network adapters choose your network card. Open the properties of the NIC and switch to power

management. Make sure that all three hooks are set.



If the conditions are met you can enter the MAC address of your computer in the MCC client settings. The MAC address of your computer you can find in a command prompt with the command "ipconfig /all". MAC addresses have one of the following formats.

00-23-32-65-E8-99 or 00:23:32:65:E8:99

Open the MCC client settings and select "Server IP/Name". Here you have registered your computers already. Touch and hold the entry with the computer name to which you want to add the MAC address. Select "Edit MAC for WOL..." from the context menu. Enter in the text box then the MAC address and press ENTER or the confirmation button to the right of the text box. Save the settings with "Save".

If configured properly, you can now wake up to your computer via WOL. Turn your computer off, or put it into standby mode. Launch MCC and connect via network. If you have registered more than one computer, you now choose the computer with which you want to connect. After a short time should turn on the computer and be connected to MCC.

8 MCC and the internet

You can control your computer with MCC over the internet. It will be good e.g. to schedule recordings. You can search the TV and record programs of interest. So you never miss your favorite show, even if you have forgotten to program the recording at home.

So that you can control from the Internet (eg EDGE or UMTS) to your computer with MCC, you have to configure your internet router accordingly. Please check out the MCC server settings according to which network port you use. Usually this is the port 63187. This port must forward your router from

the internet to your compute. This process is called port forwarding. Build it on your router so a port forwarding in the following way.

From **ANY** (any address) **TCP port 63187** to **YourComputerName port 63187**

Now you have to make sure that is allowed in the MCC server settings to connect from network and internet.

Important: If you allow internet access to MCC, you should urgently set a password in the network authentication of MCC server. Take care that the password in the MCC server and client is identical.

In addition, the Windows Firewall be configured to access one of the MCC is allowed from public networks. This you can control in the MCC server settings by pressing the button "Configure Windows Firewall".

Now it should be possible to access on its public internet address on MCC. In some countries there is the problem that the public internet address will change every 24 hours. To work around this problem, the one service such as www.DynDNS.org up on your internet router, if this function is supported by your router. This service saves your current public internet address and linked it with a name that is accessible from the internet. The name you can choose when registering and could loud eg "MyMCC.DynDNS.org". This name then you set in the MCC client settings as a host.

With this configuration, your computer must remain on continuously, however, that it is always available on the go. This is usually not desired. MCC also has a solution. MCC is able to wake your computer using Wake on LAN (WOL). Read the chapter "Wake on LAN – Wake computers" to ensure that your computer is set so that it can be woken up in the local network already. For this to be over the internet to work, your internet router in a position to be the so called "Magic Packet" to pass on to your computer. This does not work with all routers.

First, you need the network address of your computer, which you can identify with "ipconfig" at a command prompt. Let's assume that address is 192.168.0.10. You must now determine the broadcast address. For this the last number of the address is replaced with 255, so that is in our example, the broadcast address 192.168.0.255. You must set the following port to use WOL over the internet.

From **ANY** (any address) **UDP port 7** to **YourBroadcastAddress port 7**

On the internet you can find instructions in appropriate fora such as forward in your router to a broadcast address. Have a look into the MCC forum at <http://forum.mediacycentercontrol.com>. Possiblythere is already a solution for your model.

9 Cover and channel logos

Media Control Center shows you the album art of music, videos and TV on your phone. These images from the MCC server are reduced in size and stored in a special folder in order to keep the amount of data to be transferred to a minimum and to optimize the display on the phone.

The image files are stored by MCC in the following folders and can be deleted if necessary.

| Device | Location |
|------------|---|
| Computer | C:\Users\Username\AppData\Local\MCC_Server\cover\ |
| Smartphone | \Storage Card\MCC Cover\ Depending on the language of your phone, the storage card have a different name (for example "Speicherkarte"). You can adjust the location in the MCC client settings if necessary. |

9.1 Channel logos in Windows Media Center

There are regions for the Microsoft unfortunately does not provide channel logos. But channel logos you can easily install with a tool itself. One tool that I can recommend is "My Channel Logos". You can download the tool free of charge at <http://mychannellogos.com>. Have you installed the logo with this or a similar tool, they are displayed in Windows Media Center and also in MCC.

10 How movies section works in MCC

So you can search in MCC films the following conditions must be met:

- Each movie must be stored in a separate folder that contains the name of the movie
- In each of these folders must be a "mymovies.xml" file to find.

MCC reads the metadata from the "mymovies.xml" files. These files are created and stored by the program "My Movies Collection Management". "My Movies" is available for free at <http://www.mymovies.dk>.

Furthermore, the "folder.jpg" files are read from the movie folders.

Other film databases are not supported. However, there is no problem if you use a different movie Media Center addin, such as "Mediabrowser", in parallel. There is no need to use the "My Movies" addin. All you need is the "My Movies Collection Management".

10.1 DVD and Blu-ray Images

MCC can mount DVD and Blu-ray images automatically. For this feature you have to install „Virtual CloneDrive“. You can get this software for free at <http://www.slysoft.com>.

For the automatic playback in Windows Media Center, you must have configured the media center accordingly.

11 Custom file extensions

If you installed any plugins for file formats, it is possible that they not appear in MCC. To make these files available in MCC, you must manually change the Windows Registry.

11.1 File extensions for videos

You have to change the following registry value.

Key: HKEY_CURRENT_USER\Software\MCC

Name (String): ExtVideo

The value contains the extension without points, stars or any other special character.

| Extension | Value |
|-----------|-------|
| .QT | QT |
| .RMM | RMM |

Several extensions have to be separated with a semicolon. Example:

QT;RMM

11.2 File extensions for pictures

You have to change the following registry value.

Key: HKEY_CURRENT_USER\Software\MCC

Name (String): ExtPicture

The value contains the extension without points, stars or any other special character.

| Extension | Value |
|-----------|-------|
| .NEF | NEF |
| .IFF | IFF |

Several extensions have to be separated with a semicolon. Example:

NEF;IFF