

Jam SE

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V1.1**

Overview

JAM SE is a free mobile application for a range of Java enabled mobile phones that allows you to control your music collection from your phone, using Bluetooth.

JAM SE requires a Server supporting the Bemused Protocol and a PC with a Bluetooth adapter. Browse or search your music collection on your phone, play most files supported by your music player including MP3s, CDs, etc.

Control your music player. Pause, stop, rewind, forward your playlist, add songs to the playlist, use shuffle and repeat and control the volume of your player.

Browse and select songs in your playlist; download songs to your phone, customize the look of your phone application with skins.

You can even shut down the PC from your phone.

Installation

Mobile Software Installation

You can install the software on your phone using Bluetooth or the file manager. The software can be installed into internal memory or the memory card.

(To get the correct software version for your phone please have a look at')

Sony Ericsson Phones

To install the software on your memory card:

Transfer the 'JAMSE.jar' file to the directory '\mssemc\media files\other' in the mobile phone's files system. From the phone's main menu select File manager (Data folder) and browse to the application in the 'other' directory. Select **Install** to install the software on the phone.

Nokia Phones

To install the software on a Nokia phone you can use the Nokia PC Suite (Version 6.80.21 or higher). Choose 'Install Software'. After installation the application menu on your phone must be reopened to show the new application.

Additional Setup procedure for Nokia Phones

To be able to download files to your Nokia phone you have to set file read/write permissions on your phone. On Series 40, go to "Menu/Applications/". Highlight 'jamse' application name, go to "Options/Application access", and configure the proper permissions.

On S60, go to "Tools/App. Manager/". Highlight 'jamse' application's name, go to "Options/Suite Settings", and configure the proper permissions.

Please note that the default access rights do not allow for file read/write access, you have to manually change them. If the permissions are correctly configured you will still get security prompts.

Server Installation

There are some Servers available for different OS and music players.

For Windows you will have to download the Bemused Server².

Follow the server installation instructions (README file).

There are no special installation procedures necessary.

Make sure that you have configured your Serial Port Profile correctly on your PC and that Bluetooth discovery is working fine.

Connect the server to the incoming Bluetooth serial port, make sure that you are using only one incoming port.

For Linux there are several Servers available. Have a look at the README file for installation.

¹ <http://mitglied.lycos.de/jamsoftware>

² <http://mitglied.lycos.de/jamsoftware/> (Windows/Linux)

New Features

Playlist Setup

You can browse, preview and set playlists (.m3u files) from a directory.



Make sure that the directory containing your play lists is configured on the server. You can navigate to your playlist(s) from the '**Browse Dir**' menu. If you select your playlist file the playlist menu opens and you can choose to set or preview the playlist. You can also load the playlist from the preview screen by pressing the select button.

File Search

Select the Search menu from the Player menu. You can enter a search string to search for files, the '*' symbol is supported. The search is case insensitive. From the result page you can access the normal file menu.

Page Mode

JAM SE supports long lists entries by automatically breaking down a list into pages.

For quick page navigation you can use the  >> and  << buttons.

Page Mode is automatically switched on for long list entries.

Setup Menu

Directory Caching

Downloading directories from the server can be time consuming. To reduce time and load you can choose to cache the directory structure on your phone. Go to **Setup Menu** and edit the 'Cache Time' value.

A value of '0' will pin your directory for the whole application session.

Background Color

If you have downloaded a skin that doesn't fit the actual screen size you may see parts of the background screen. With the 'Background' setting from the **Setup** menu you can select the desired background colour.

Song ticker on/off

If the actual song name doesn't fit the screen and Song ticker setting is on, the file name will roll through your display (default on).

Text Input Style

You can switch between predictive (T9 etc.) and non predictive input mode.

The input mode switch is currently only used in the search input field.

Back light on/off

Keeps the phones back light on for approximately 30 seconds. This feature uses a lot of battery power, so you should switch it off if you want to use the application for a longer period. This feature is not used by GENERIC software packages.

Show Playlist Index on/off

You can switch off the index numbers for the playlist entries, leaves more space for title entries.

Supported screen formats

The following screen formats are supported:

Screen Resolution
128x128 px
128x160 px
178x220 px
240x320 px

Please make sure that you have downloaded the correct software package suitable for your phone(see³).

For other screen sizes you will have to choose the next smaller screen size package.

The application may come with additional skin sets depending on the actual package.

If the player screen doesn't fit your screen size you can press the '2' button on your phone to switch to full screen mode.

Usage

Startup

1. Check your Bluetooth adapter is running correctly.
2. Start the Server Software and make sure that the server is configured to the correct Bluetooth serial port.
3. You should pair your mobile phone with the PC before initial startup of JAM SE.
4. Bluetooth on your phone must be switched on before you start JAM SE.
5. On first startup JAM SE will search for Bluetooth devices supporting the RFCOMM service. Device search may take some time to complete.
6. Select your PC from the device list, JAM SE will try to contact the server checking for a valid protocol.
7. Once the connection is set up the player control screen will show up on your phone.

Player volume and song data is continuously synchronized with the phone.

Depending on the Bluetooth adapter state it can take a few seconds for the phone to synchronize.

Some phone types (e.g. SE K750i) will disconnect after 2 minutes of inactivity to save battery power.

After inactivity timeout you can immediately reconnect to the server by pressing the connect button from the **Disconnected** screen.

Most of the Player Menu actions can be directly accessed by keyboard shortcut, see Table 1 for further details.

Button Control

To control the player buttons you can use your phones joystick. Horizontal movement is selecting the player buttons. Menu Select or pressing the Joystick will activate the selected button.

On Nokia phones you have to press the green phone button to activate a player button.

Volume Control

Vertical Joystick movement controls the volume setting of the player.

³<http://mitglied.lycos.de/jamsoftware>

Player Menu

If you press the player control menu button the Player Menu will show up.

From the menu you can choose the following actions:














Icon	Player Menu	Keyboard Shortcuts (from player control only)	Action
	Playlist	1	Show Playlist. From the Playlist you can select a song to be played
	Browse Dir	3	Browse server directories. You can add selected files to the Playlist or download music files or skins.
	Shuffle toggle	#	Toggle Shuffle button
	Search		Search all server directories for files. You can use the '*' as a wild card character in the search string. Search is not case sensitive
	Setup		Setup Dialog see Setup Menu section
	Help		Show Help Dialog
	Repeat toggle	*	Toggle Repeat button
	Clear Playlist	0	Clear Playlist
	Switch Skin	8	Switch between standard and downloaded skin
	Screen Size	2	Toggle screen size to full screen or menu screen
	Shut Down PC		Shut down PC
	-	4	<< Rewind song by 5 seconds
	-	6	>> Forward song by 5 seconds

Table 1

Creating Skins

Using your favorite graphics software you can easily create a skin for your phone.

See the 'Writing Skins' document in the Bemused Server documentation for further details.

The JAM SE skins have slightly different definitions.

In the skin descriptor file you have to add the skin size, that is the displayed proportion of your skin.

On a typical 176 x 220 pixel phone display, in normal screen mode (menu buttons showing up) you will have up to 176 x 176 pixels for your skin.

With these settings add the following line to the skin descriptor file:

Screen with menu buttons(width=176,height=176):

SkinSize: 176 176⁴

Full screen without menu buttons (width=176,height=220):

SkinSize: 176 220⁵

Skin Download

Once you are finished with your skin, place the skin files in one of the configured server directories.

From the phone **Player Menu** select Browse Dir. Go to a skin file and press select. The Skin Menu will pop up from where you can select **Install Skin**.

The skin will be stored on your phone and is displayed in the player control. From the Player Menu you can switch skins and choose full screen or menu screen mode.

You can even install original Bemused Skins.

If you have created a great looking skin and you want to share it with the community, send your skin to jamseinfo@aol.com we will try to bundle it with the next release.

Technical Data

Symbian Phone Support (2nd Edition)

A Bemused Client for older Symbian phone types can be downloaded from the Bemused Server page⁶.

Music file download

The following music file extensions are recognized for download:

wav, aac, mp3, mp2, wma, ram, emy, imy, amr, mid, xmf, dls, rmf, au, m4a, ogg, ape, mpc

Make sure that your phone supports the downloaded file format.

Music files are downloaded to the internal memory in the '/sounds' directory (depends on your phone type).

Downloading will be aborted if the file name already exists.

Protocols

JAM SE supports the Bemused Protocol over Bluetooth. TCP/IP access is not supported.

Character Encoding

JAM SE is supporting the ISO-8859-1 character set only.

⁴Please note the space between the numbers

⁵Please note the space between the numbers

⁶ <http://bemused.sourceforge.net>

Trouble Shooting

Generic Packages

If your phone is not explicitly listed in the 'Supported Phones' table on the product homepage, you can try a GENERIC package.

Make sure that your phone's screen resolution matches the GENERIC package that you want to install.

File Download may not work for your phone if you are using a GENERIC package.

Back light feature is not working for GENERIC packages.

Java enabled phones must at least support the following Java features to be able to run JAM SE:

CLDC1.1
MIDP2.0
JSR-82 Bluetooth
JSR-75 File API

Windows XP Bluetooth Driver

There are many reports of Bluetooth problems with the standard Windows XP Bluetooth Stack. If you encounter connection problems, try to change to different Bluetooth Stack (e.g. Widcomm).

Bemused Linux Server

The original Bemused Linux Server supports the outdated XMMS Audio Player. Unfortunately this player has some serious bugs in it's remote API. A patched version for the Audacious Audio Player (a XMMS fork) can be downloaded from the JAM SE Homepage.

Empty playlist bug on Linux

XMMS and Audacious players freeze during playlist download if the playlist is empty.

Mobile Phone Bluetooth Issues

Some older SE phones need a software update to fix Bluetooth problems.

You can get the required Software Updates directly from Sony Ericsson.⁷

Some Nokia S40 phones seem to have a problem with Bluetooth device activation, it can take quite a long time until the device get activated, pressing the keyboard buttons seems to speed up device wake up time.

Directory Size

If you start browsing your server directories, all directory information will be downloaded to your phone.

This can take quite a long time, depending on your directory settings. You can configure directory caching from the Setup Menu for faster browsing.

To ensure that your phone is not running out of memory, use only small browse directories on your server.

Help us to improve JAM SE !

Please send your comments, feature requests, questions or bug reports to jamseinfo@aol.com

We'd love to hear from you !

⁷ <http://www.sonyericsson.com>