

Mobile With Style Clock plugin

For WM5 Pocket PC & WM6 Professional

User Manual

V 3.0



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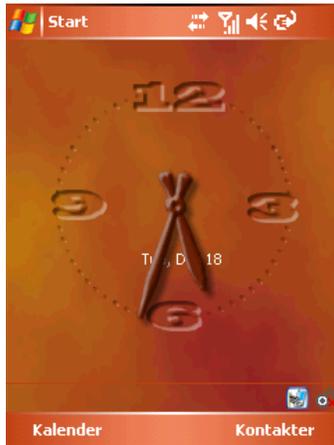
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1. General description

The Mobile With Style™ (MWS) Clock plugin is a Today plugin that works on Windows Mobile 5.0 Pocket PC and Windows Mobile 6.0 Professional.

The philosophy is to have a clean stylish look, while presenting information when there is something to present. The plugin can replace a number of standard plugins that display information about mail, SMS, tasks and so on.



The analog or digital clock is the centerpiece of the today screen; accompanied by a display of status messages according to the configured display filters and rules.

The MWS Clock plugin has a large number of configurable rules (e.g. “Display unread SMS (yes/no)”) that are available through a separate Settings program.



The primary purpose of these rules is to keep information *off* the screen and only display information that is relevant and important. If there’s nothing that requires your attention, the clock is the only thing visible on the screen. Whenever something needs attention (e.g. missed calls, low battery level, unread SMS), status information will appear beside the clock. When you have taken action (read SMS or whatever action is required), the status information will automatically disappear. One quick look at your device, and you know if there’s something you need to take care of.

In addition to the filter rules, the visual appearance of the MWS Clock plugin is highly configurable. All text fonts are configurable in font name, size, color and attribute, and all graphic parts are fully configurable in size, position, surface, effects, shadowing, etc.

Please note that the clock design is by no means limited to the examples printed in this document; numerous other components (clock faces, hands, digits and so on) are installed with the base package, and all colors, surfaces effects and shadows are freely configurable.

The program has an open design where users can add new components, e.g. clock faces and hands, surface effects and shadows. You are encouraged to create your own designs and upload them to forum.mobilewithstyle.com to share them with other users.

Platforms supported:

MWS Today Clock plugin runs on Windows Mobile 5.0 Pocket PC and on Windows Mobile 6.0 Professional devices. The same functionality on Windows Mobile 5.0 Smartphone and Windows Mobile 6.0 Standard is delivered by the product *MWS Home Clock plugin*. The program supports all possible screen resolutions and screen orientations, and handles runtime screen rotations.

Installation:

.NET Compact Framework 2.0 must be installed on the device. Please see the separate *MWS Clock plugin installation guide* for installation and upgrade procedures.

Contact

Please visit www.mobilewithstyle.com for information on existing and coming *styles*. Comments, questions and feedback are welcome on info@mobilewithstyle.com. Forum for users of the MWS Clock plugin is found at forum.mobilewithstyle.com.



2. Demo version

A demo version of the clock plugin is available for download at www.mobilewithstyle.com.

The demo version is fully functional with no restrictions other than the time it is operational. It works for 4 hours after the boot of the device, after that a simple demo message is displayed. If you need extended evaluation time, you must reboot your device, after which the plugin will work for another 4 hours (...and so on...).

Please note that the ‘demo timer’ starts when the device boots, not when the plugin is started; you cannot gain extended evaluation time just by restarting the plugin.

3. Basic operation

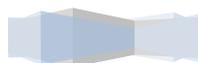
With the accompanying *MWS Clock Settings* program, you load and edit clock styles to get the screen to look the way you want it. A large number of parameters control the graphical design of the clock, and detailed editing of all the parameters could be quite extensive. During normal operation you will probably not involve the settings editor very often; once your clock styles are defined and saved, you simply load the design you want to have.

With the settings program, you also define all the filter rules that control what kind of information that should be visible on the screen, and under what circumstances it should be visible. There are a lot of parameters to configure, but you normally set it up once and only change when you feel that the plugin doesn’t respond to events in the way you want it to.

When all is set up and loaded, you will have a clock display that – when required – is accompanied by status information. When status information is displayed (e.g. *SMS :2* that indicates that you have 2 unread SMS) you can tap on the text on the screen and immediately get to the appropriate page (in this example the SMS inbox). Most – but not all – status indicators respond to screen tapping.

The date information also responds to screen taps by opening the (system) clock settings page.

There really isn’t much more to it. You have the flexibility in graphical design that can keep you busy for a long time experimenting with different surfaces, colors, components and effects. And when you’re happy with the designs shipped with the product, downloaded from the site or the ones you’ve made yourself, you’ll have a cool Today screen that always tells the correct time, and that alerts you when there’s something that needs your attention.



4. The main screen layout: the Clock

Design examples:



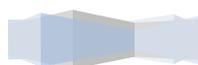
The area surrounding the clock face (analog clock) or digits (digital clock) is used to display status-information as configured on the Settings page. Please turn to the *Status Information* chapter for further details on available settings.

A special feature, available on analog clocks only, is the *MeetRing* that surrounds the clock face. It displays occupied time the coming 12 hours, giving you an instant view over when you are in appointments and when you are free. Please turn to the *MeetRing* chapter for a more thorough description on the *MeetRing*.

Just about every aspect of the clock display is configurable:

- The *background* isn't really a part of the clock plugin configuration; instead, the clock plugin uses the background defined by the current Today theme.
- The *shape* of the clock components (face, hands, digits and MeetRing) is freely selectable from a list of defined shapes. The shapes are stored in plain image files in a configuration folder on the device, and in case no suitable shapes are found, you can easily create your own.
- When the shape of the clock parts is selected, you add a *surface* by selecting a solid color, texture from an image file or by simply using the background image. Use of the background image in combination with some effects (like indent effects) produces rather nice effects where the clock parts are imprinted in the background image.
- With shape and surface in place, you add an *effect* to the shape in order to add depth. Effects are controlled by xml files in the configuration folder, and if you cannot find a suitable effect, you can create additional effects yourself.
- Finally, you add an optional *shadow* to the clock part. Shadows definitions are also read from xml files, and of course you can create your own if you can't find the right one.
- The clock display size and position is configurable with different settings for landscape and portrait orientated screens; in case of runtime screen rotation, the clock display automatically adjusts to the current screen layout.

All settings are stored in a style xml file in the configuration folder on the device, and these xml files can be copied to other devices if needed. The following sections give an overview over the available configuration parameters; for a detailed description of the MWS Settings program and the parameters, please turn to chapter *MWS Clock Settings reference*



4.1. Digital clock formatting

The digital clock adheres to the configured locale regarding 12h/24h clock and leading zero formatting, but you are free to override with your own preferences.

Each *style* has a defined center point around which the digit display is centered. You can choose between two different centering methods:

- *Dynamic* centering means that the currently visible digits will be centered on the display. This means that the digits can be shifted sideways slightly when the digits change (e.g. a “2” uses more space than a “1”), but every time you look at the screen, you’ll see a centered time display.
- *Static* centering means that each digit will always be displayed at the same spot, just like an old LED clock or any other clock with fixed display. An individual time display might look a bit off-center if the left-most digit doesn’t fill the potential space.

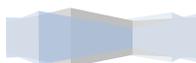
Separate from the dynamic/static centering, you can also select to have a “blank image” replacement for a leading zero. Some *style* might for instance graphically mimic an old flip-digit alarm clock, and then the space occupied by a leading zero must be filled with *something* even when you have “suppress leading zero” configured. In such a case, a leading (suppressed) zero will be replaced by a “blank image placeholder” that gives the impression of a blank flip-digit (or whatever is suitable for the *style*). Not all *styles* have a blank image defined; for styles lacking the blank image, this setting is ignored.

4.2. Date

The analog clocks display a short format date while the digital clocks display a long format. Apart from that, the date features are the same on both versions.

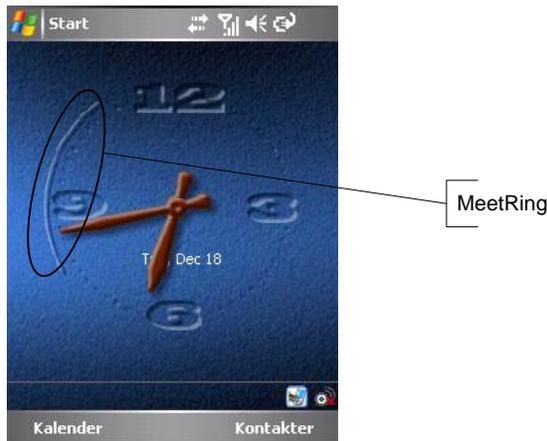
The date display may be enabled or disabled and you can adjust the used font by specifying font name, size and color, Cleartype and bold font. You can also select to use the defined *system font* for the date.

The date position on the screen is configurable in reference to the clock display and different settings apply depending on the current screen orientation (landscape or portrait).



4.3. The MeetRing

The MeetRing gives you instant information on your busy/free status for the next 12 hours. It is visually connected to the clock face, and is only available on analog clocks. The MeetRing looks for appointments in your Calendar, and will highlight a segment in the circle when you have an appointment at the corresponding time. In “worst case” you will have a complete circle around your clock face, indicating that you have no free time at all.



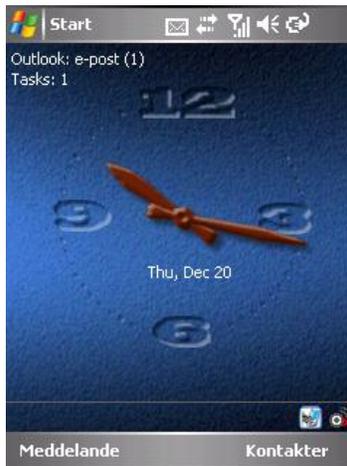
The MeetRing displays all events that are scheduled; normal events, all day events and recurring events. The display filters as defined in the settings gives the possibility to select a subset of appointments as targets for MeetRing display.

The MeetRing is handled as a ‘clock part’ and have the same configuration parameters for shape, surface, effect and shadow. In addition, the size of the MeetRing can be adjusted relative the clock size for the current screen resolution and orientation.



5. The Status information

On either side of the clock face, status information will be displayed when appropriate.



Whether or not to display a specific item is configurable on the Settings pages. Apart from this on/off, some items have additional settings that can be configured.

The program tries to keep a clean layout and tries to avoid having information “collide” on the screen. Depending on the clock size and position, available space for status information is calculated and divided in a number of ‘slots’

Each item is investigated, and when something should be displayed, it is displayed in an appropriate “slot” depending on the text size; items with the longest text are placed in the largest slot available and the next-longest text is placed in the next-longest slot, and so on.

If a majority of the potential status items are to be displayed, there is a risk (depending on font size) that some items simply don’t fit on the screen at all, but large font sizes and extremely populated status information is required for this to happen. If this is the case, the overflowing status information items will silently be dropped; no warning is given that there is information that should have been displayed but that didn’t fit.

The program goes to great length to try to keep the screen tidy and functional, but the technique is not bullet proof; there are many potential variations with font sizes and attributes and some status information has variable length. The program tries to keep it as tidy as possible, but don’t expect miracles.

The status information is designed to be visible, yet discreet. If you find it too discreet there are settings available that affects all the status displays: Font name, size and color, ClearType and bold font. You can also select to use the defined *system font* for the status info.

The program gets notified when any status information is changed in the device, and immediately adjusts the display (if required) to reflect the current status

5.1. Unread SMS

If enabled, it simply displayed the number of unread SMS. If no unread SMS exist, nothing is displayed.

5.2. Unread MMS

If enabled, it simply displayed the number of unread MMS. If no unread MMS exist, nothing is displayed.

5.3. **Unread Mail**

If enabled, it displayed the number of unread Mails. In the search for unread mails, the program scans the available mail stores. If no unread mails are found in configured mail stores, nothing is displayed.

You can select if you want the program to display a sum of all unread mails in all available mailboxes or if it should display each mailbox separately.

5.4. **Voice Mail**

If enabled, it simply displayed the number of unread voice mails. If no unread voice mails exist, nothing is displayed.

5.5. **Tasks**

If enabled, it shows a summary of you overdue, due today and/or undated tasks in a number of different ways. If no tasks of the selected type(s) exist, nothing is displayed.

5.6. **Operator**

If enabled, it displays the current Operator according to the rules you define. The settings make it possible to display the operator information only when you boot the Smartphone or when the information changes, but otherwise to suppress it (you probably know what operator you use anyway, don't you?).

5.7. **Signal**

If enabled, it displays a warning about low signal level if it goes below a defined threshold. If the signal is above the defined threshold, nothing is displayed.

5.8. **Missed Calls**

If enabled, it displays a summary of your missed calls. When you have no missed calls, nothing is displayed. You can select to only display a summary, or if you want to display the name or number of the last missed call. The information is displayed like:

3 Calls (John)

An important thing to remember is that the *name* and the *number of missed calls* is totally unrelated. In the example above, we have three missed calls where the last one was from John.

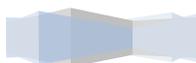
It does not say that we have three missed calls from John. To find out who made the other calls, you need to visit the Calls History page of your device.

The counter is reset you visit the Calls History page of your device.

Please note that this setting is ignored if your device doesn't have a built-in phone.

5.9. **Battery Warning**

If enabled, it displays a warning about low battery level if it goes below a defined threshold. If the battery level is above the defined threshold, nothing is displayed.



5.10. Appointments

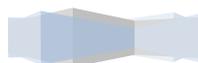
If enabled, it displays the subject of the next available appointment according to the filter criteria you define. You can filter on various sensitivity levels, appointment status and event types. You can also define a *display window* that controls when appointments will be displayed.

The Display window is simply the time period where a normal appointment must *start* in order to be displayed. The **Look Ahead** setting is how far in the future the program should look in the Calendar. If you want to see appointments the coming 2 hours, **Look Ahead** should be set 2 hours.

The **Look back** setting is how long an already started appointment should be displayed. If you're late for an appointment, it could be nice to have the appointment still visible on screen for some time.

If you select to display *All day* appointment, the following apply:

- If a normal appointment exists within the defined display window, this appointment is displayed regardless of whether there exist *All day* appointments or not.
- If no normal appointment exists within the display window but an All day appointment exist for today, this All day appointment is displayed with the prefix "Today:".
- If no normal or All day appointments exist for today, but an All day appointment exist for tomorrow, that appointment is displayed with the prefix "Tomorrow:" (provided that you have selected to include tomorrows All day events in the display).
- If multiple All day appointments on the same day exist, only the first appointment in the list is displayed.



6. Navigation

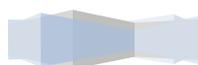
The clock plugin is not a *selectable* plugin as defined by the Today main application. Selectable plugins receive focus when the up/down navigation keys are used from adjacent plugins, and while the selectable plugin has focus, it can receive and act on navigation and Action key presses.

Since the clock plugin is not selectable, the focus will skip the plugin and move to the next plugin in line when you use the up/down navigation keys. And since it will not get focus, it will never act on keyboard input.

The plugin will however react on screen taps in a variety of ways, and all status information items will react when you tap on the text on the screen. Most – but not all – items have a default configuration that launches an application that's appropriate for the information (such as launching the calendar application if you tap on an appointment).

On the *Global – General* settings page, you can redefine all the settings for what applications to start for the various components, and you can also attach your own parameters if needed. The default settings are as follows:

Item	Application launched when item is tapped
Appointment	The built-in calendar application (<i>Start – calendar</i>)
Battery	The built-in Power applet (<i>Start – Settings – System tab – Power</i>)
Clock center	The MWS Clock Settings application
Date	The built in date/time applet (<i>Start – Settings – System tab – Clock & Alarms</i>)
Mail	The built-in messaging application with focus on the appropriate mailbox (<i>Start – Messaging</i>)
Missed Calls	None
MMS	The built-in messaging application with focus on the MMS mailbox (<i>Start – Messaging</i>)
Operator	None
Signal	None
SMS	The built-in messaging application with focus on the SMS mailbox (<i>Start – Messaging</i>)
Tasks	The built in tasks application (<i>Start – Program – Tasks</i>)
Voice mail	None



7. The bewildering flexibility

One of the main goals with version 3 of the MWS clock plugin was to make it as flexible as possible. The end result is a program that is controlled by more than 100 different parameters, and that in all major parts is based on image and xml files that can be changed or added. This flexibility, together with the Today selection of themes can be quite bewildering for a new user.

There are three levels of configuration;

1. Selection of new Today Themes through the standard *Start - Settings - Today* page together and loading a new clock style with the *MWS Clock Settings* program.
2. Tweaking of the parameters controlling a clock style through the *MWS Clock Settings* program.
3. Change or addition of clock components created with Photoshop or similar program, and control files created with Notepad or similar program. These settings are covered in the document “*MWS clock component creation*”.

7.1. Clock Styles versus Today Themes

What is a *Today Theme* and what is a clock *style*, and how are they related?

A *Today Theme* is a standard file used by Windows Mobile to define what the Today Screen¹ should look like. The file is a .tsk file that defines things like background image, colors and fonts. The .tsk file is an installable archive that also includes the background image files defined by the theme. Unless you have a Today Screen Editor of some sort, there is no easy way of creating/editing .tsk files.

There are a number of Today Themes shipped with the device; the exact number of Today Themes and their content differs slightly between different models and manufacturers.

The Today.exe application keeps track of Today plugins installed on the device, and besides presenting a list of available Themes, it also presents a list of available plugins. There is no relationship between the selected theme and the selected mix of plugins; you can change the plugins loaded without changing Theme, and the loaded plugins stay loaded when you change Theme.

When the MWS Clock plugin is installed it will automatically be detected by the Today application and made available for selection. The clock plugin will in fact automatically be selected for loading, but the plugin isn't loaded until you restart the device or enter the Today Settings program.

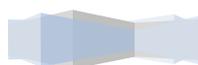
Along with the plugin, a number of Today Themes are installed to be used as base for clock designs. These themes are “fixed” and hard-coded to load an accompanying clock style.

Unfortunately, standard theme (.tsk) file do not include settings that enables clock style selection as being a part of the theme. In order to switch to a new background and clock style with a standard theme, you need to load the background and the clock style separately.

The background image of the Today screen can be changed in three ways:

- A new theme can be loaded (this is the only way you can get different images for portrait and landscape modes)
- On the *Start - Settings - Today* page you can specify an image to use instead of the images defined by the theme. You will get the same image in both landscape and portrait modes, and the imaged will be semi-transparent and appear slightly dimmed.
- You can use the *Pictures and Videos* program to locate and load a new background image that overrides the ones defined in the theme. You will get the same image in both landscape and portrait modes, but you will get the opportunity to defined the transparency level of the image.

The theme files delivered with the MWS Clock plugin covers some basic color schemes, and can be used as starting point when designing our own clock styles. Of course, you can use any theme available on your



¹ The Today Screen is the screen displayed when you press the *Start - Today*

device or create new themes (provided that you have a theme editor), the MWS Clock plugin works with whatever background and color scheme that is loaded.

The clock style files delivered with the MWS Clock plugin should be regarded as examples on how to configure the plugin, rather than final designs. You are encouraged to experiment with the settings available to find your own combination of background image and clock component design.

If you need generic themes without hard-coded associations to clock styles, you can download such themes from the MWS user forum.

On the *items* tab on the *Start – Settings – Today* page, you define what plugins that should be loaded, and these settings are preserved when you change themes. The MWS Clock plugin is designed to work together with any number of other plugins without any requirements of being first or last in the plugin list. If you like, you can also run the clock plugin as the only loaded plugin, and have dynamic status info display around the clock face supply the information you need.



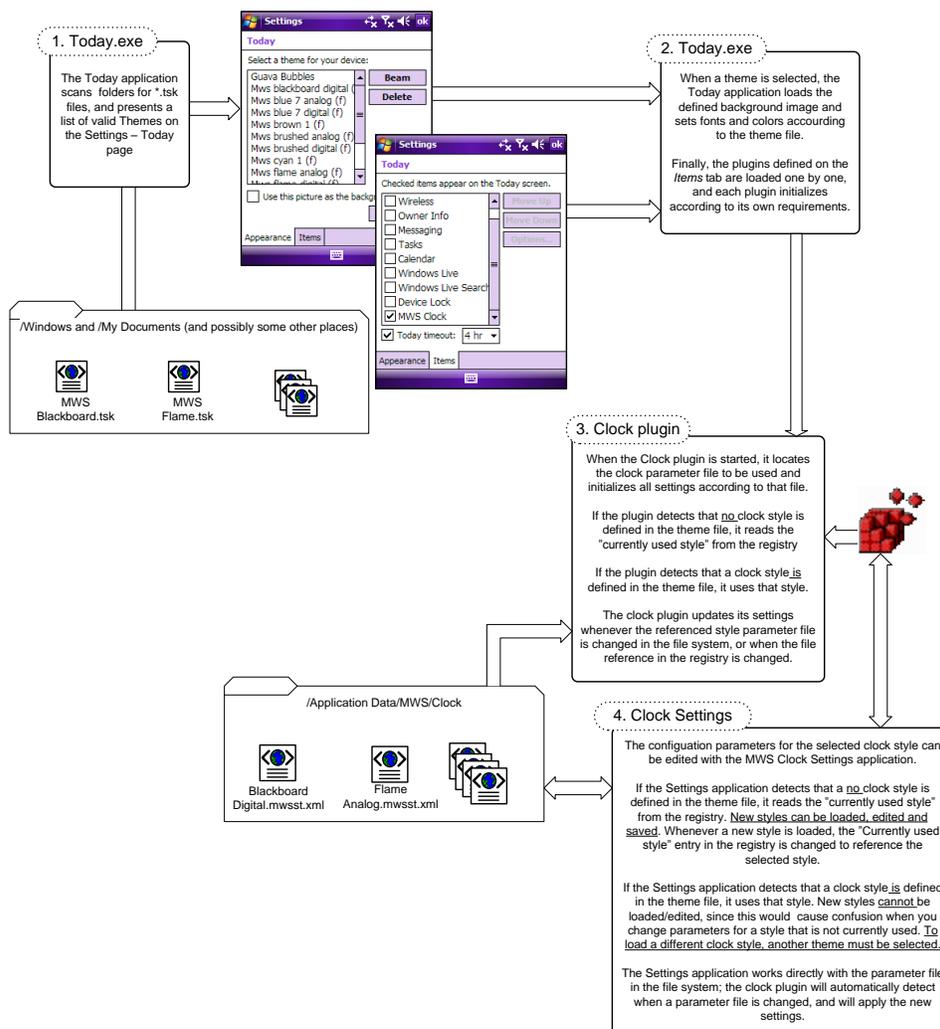
7.2. Selection of a theme

The easiest way to change to a new clock design is to simply select a Today Theme that loads the clock plugin and has a ‘hard-coded’ link to what clock style that should be loaded. By selecting a new fixed theme, you can in one operation change all aspects of the home screen layout; background image, fonts, color scheme and clock definitions.

Even though standard theme files does not support loading of a specific clock style together with the theme definitions, it is possible to achieve this by manually creating the theme file. Manual creating of theme files is a rather complex procedure that is not explained in this document. Provided that you are comfortable with creating theme files, you can find information on how to enable clock style loading in the theme in the section *Advanced tweaking; adding a clock style reference to a theme file*.

Fixed today themes and styles² are marked with an “(F)” in the theme and style name. All themes in the base style package are fixed themes but please note that you can download generic versions from the MWS user forum.

The following picture tries to summarize and show the relationship between the different components in your mobile when loading a theme and a clock style:



² This is the naming convention used for themes and styles delivered by MWS and enable a quick way to determine whether a specific theme will also load a specific clock style. If you create your own themes and styles you can name them whatever you want, but the recommended approach is to follow the same naming convention.

The following Fixed Today Themes are installed together with the clock plugin:



MWS Blackboard
Digital



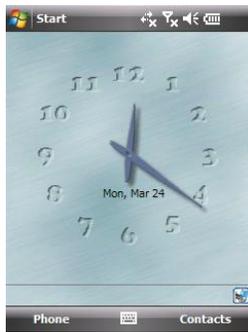
MWS Blue 7 Analog



MWS Blue 7 Digital



MWS Brown 1



MWS Brushed Analog



MWS Brushed Digital



MWS Cyan 1



MWS Flame Analog



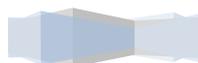
MWS Flame Digital

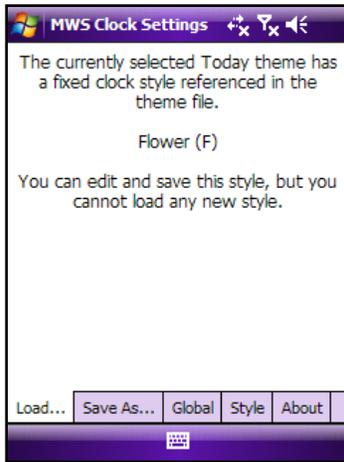


MWS Flower

Each of these themes has a hard-coded link to a clock style with a similar name. You are free to alter these linked styles in whatever way you like, the default configuration is only an example of what it can look like.

When you have loaded a fixed theme you can edit the selected clock style, but you cannot load a new clock style in any other way than loading another theme. When you start the MWS Clock Settings program, you will get this information on screen:





Please note that as a registered user on the MWS user forum, you can download additional themes and clock styles, amongst them generic versions of the base today themes.



8. MWS Clock Settings reference

Loading and editing of clock settings are done with the program MWS Clock Settings that can be found on the *Start – Programs* page.

The MWS Clock Settings program works directly with the xml file that stores the settings, and the clock plugin read the settings directly from that file. Please note that there is a slight delay (5-10 seconds) from when you save changed settings and until they are implemented by the clock plugin. There is a bug in the Operating System where the xml file may be corrupt if two programs access it at the same time, and to avoid that bug this delay is implemented.

In compliance with the design guidelines for Windows Mobile applications, the Settings program has no 'Close' button. When you have loaded a new style or edited the current style, return to the Today screen by selecting *Start – Today*.

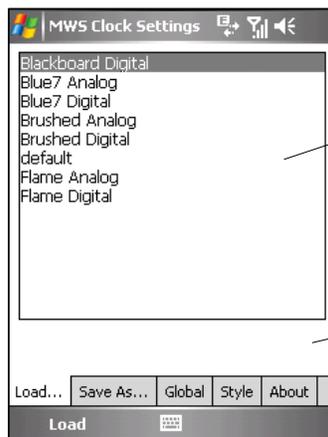
8.1. Global settings vs. style settings

A number of parameters are defined as being global parameters that affect the functionality of the clock plugin regardless of what clock style that is loaded. The intent is to have settings like 'clock display' (i.e. 12 or 24 hour display of time) to be independent of the loaded clock style, since you probably want the time to be presented the same way regardless of the graphical appearance. Global settings are stored in a separate parameter file and are not re-loaded when you change clock style.

The MWS Clock Settings program has separate tab structures for the global and style parameters so you can easily see what parameters are global. When you press Save, the Settings program keeps track of what kind of parameters that are changed, and updates the correct parameter file(s).

8.2. Load page

On the Load page, you can load a new style. As soon as the new style is loaded, it is available for editing in the settings program *and* the clock plugin instructed to start using that style. If you are not interested in editing the style, you can simply load the style and go back to the Today screen.



List of available styles:

The program scan the configuration folder for available styles and presents a list of found styles. Click on the style you want to load, and press the Load button.

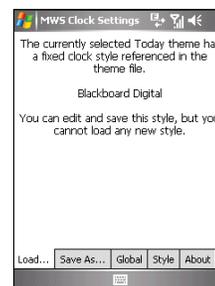
Available settings: The styles installed in the configuration folder

Message area:

You will get a warning if you have made changes to the currently selected styles that are not yet saved. If you try to load a style without saving the changes, you have to acknowledge that the made changes are discarded.

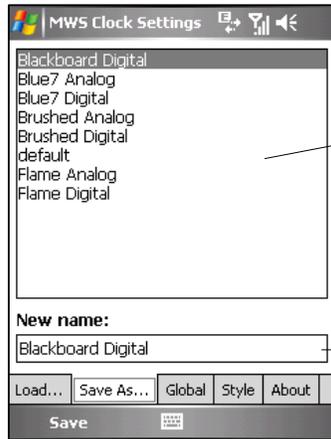
When loading of a new style is complete, the message **"Style '<style name>' is loaded"** is displayed in this area.

If the theme you are using has defined a fixed, inline style, you get this information on the Load page, and you are prohibited from loading other styles



8.3. Save As Page

Use the *Save* menu button to save the current style with the same name as before,
Use the *Save As...* tab if you want to save the style with a different name. The clock plugin will automatically switch to the new style once it is saved.



List of available styles:

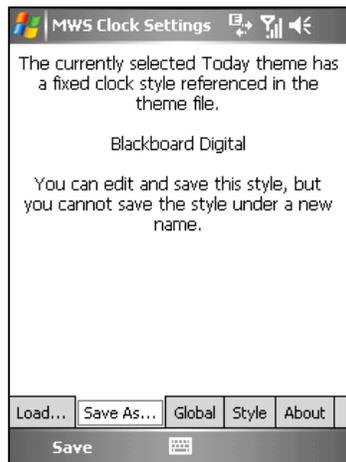
The program scan the configuration folder for available styles and presents a list of found styles. If you want to save the new style under a similar name, click on one of the existing style names, and the *New Name* field will be populated with that name

Available settings: The styles installed in the configuration folder

Name of the new style:

Enter the new style name and press Save. If you try to save with the same name as an already existing style, you get a confirmation message where you must acknowledge that the existing file will be overwritten.

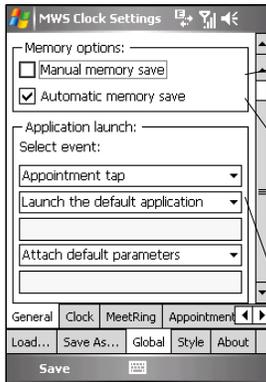
If the theme you are using has defined a fixed, inline style, you get the following information on the Save page, and you are prohibited from saving styles under a new name (the *Save* menu button must be used).



8.4. Global settings

Global settings are always used, regardless of what style is loaded.

8.4.1. General Settings



Manual memory save:

The clock plugin use numerous caches for storing bitmaps and graphical components. These caches are used to speed up the graphical engine by allowing it to only re-calculate graphical effects for changed objects (e.g. only create a new minute hand when the time changes, as opposed to re-create the whole clock. These caches may use a substantial amount of memory in the device; the exact amount depends on type of clock, type of effects and the size of the clock display. The clock plugin by default releases these caches if the Operating System announces a low memory condition in the device (see the next parameter), but if you think that the clock plugin is using too much memory during normal operation, you can switch off the caching by clearing this checkbox. **Please be aware** that disabling caching will have severe impact on the clock plugin performance.

Automatic memory save:

See the previous item for a description on the caching performed by the clock plugin. You are recommended to keep the default (checked) configuration, since this settings has no impact during normal operation. If you clear this checkbox, the clock plugin will not release its caches when the OS reports a low memory condition, and the device might get problems due to lack of memory. If you by some reason would like to disable the automatic cache release when the OS reports a low memory condition, you can clear this checkbox.

Application launch:

Many events (screen taps) causes an application to start; the default applications can be seen in the table below. For each event you can select to launch an application of your choice, should the default application not be suitable.

For each event, select:

Do nothing

Launch the default application

Launch this application:

When selecting the last alternative, you can enter the full path and filename for the application you want to launch when the selected event occur. Please note that there is no validation of the path during editing; if the defined application cannot be found at the defined path, the event will silently fail in launching the application.

You also configure any parameters to attach when launching the application. Available choices are:

Do not attach parameters

Attach default parameters

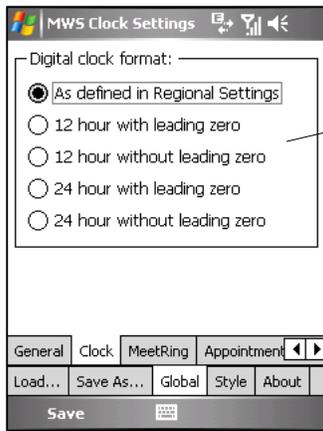
Attach these parameters

When selecting the last alternative, you can enter whatever parameters you want to attach when the application is started.

Item	Application launched when item is tapped
Appointment	The built-in calendar application (<i>Start – calendar</i>)
Battery	The built-in Power applet (<i>Start – Settings – System tab – Power</i>)
Clock center	The MWS Clock Settings application
Date	The built in date/time applet (<i>Start – Settings – System tab – Clock & Alarms</i>)
Mail	The built-in messaging application with focus on the appropriate mailbox (<i>Start – Messaging</i>)
Missed Calls	None
MMS	The built-in messaging application with focus on the MMS mailbox (<i>Start – Messaging</i>)
Operator	None
Signal	None
SMS	The built-in messaging application with focus on the SMS mailbox (<i>Start – Messaging</i>)
Tasks	The built in tasks application (<i>Start – Program – Tasks</i>)
Voice mail	None



8.4.2. Clock settings



Digital clock format:
Select the way digits should be presented when a style with a digital clock is loaded.



8.4.3. MeetRing settings



MeetRing display:

Please note that the settings to display or hide the MeetRing is a style setting and not a global setting.

Display Filter:

Display appointments with the selected status only. Busy/Free/Tentative/Out of Office.

Display Normal events:

Normal events = events not being "all day" events.

Decide if tomorrow's event should be visible in the MeetRing.

The MeetRing always looks 12 hours into the future in the search for appointments. If you have a meeting at 9 o'clock next morning it might feel odd that this is displayed after 9 o'clock the evening before.

If you only want to see today's events in the MeetRing you can select this here.

Available settings: None / Today Only / All

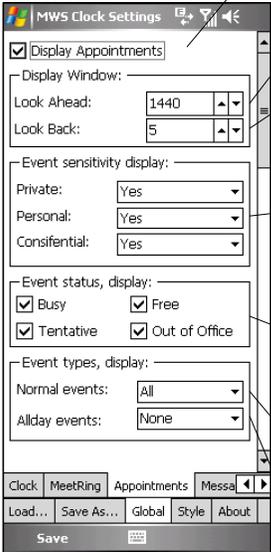
Display All day events:

Decide if "all day events" should be visible in the MeetRing and if so, if only today's events should be showed or if events for tomorrow should be included.

Available settings: None / Today Only / All



8.4.4. Appointments settings



Display Appointments:
Enable or disable appointment display in the status area.
Available settings: Enabled / Disabled

Display window, look back:
Determines how long an appointment will linger in the Status display after the start of the appointment.
Available settings: Any (minutes)

Display window, look ahead:
Determines how far in the future The status display will look to find appointments to show.
Available settings: Any (minutes)

Event sensitivity display:
Determines how statusinfo should treat appointments marked as *Private*, *Personal* and *Confidential*.
No => appointment is ignored and is never displayed in any way.
Placeholder => appointment is shown, but instead of the real subject of the appointment, the fixed text *Private*, *Personal* or *Confidential* is displayed.
Yes => All appointments and showed with the real subject.
Available settings: No / Placeholder / Yes

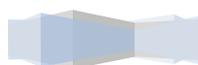
Display Filter:
Display appointments with the selected status only. Busy/Free/
Tentative/Out of Office.
Available settings: Yes / No

Display Normal events:
Normal events = events not being "all day" events.
Decide if tomorrow's event should be visible in the MeetRing. The MeetRing always looks 12 hours into the future in the search for appointments. If you have a meeting at 9 o'clock next morning it might feel odd that this is displayed after 9 o'clock the evening before.
If you only want to see today's events in the MeetRing you can select this here.
Available settings: None / Today Only / All

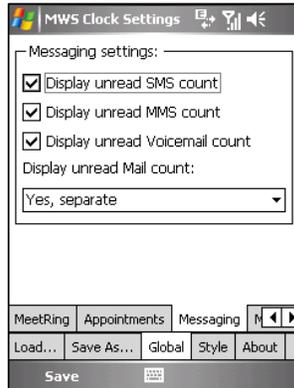
Display All day events:
Decide if "all day events" should be visible in the MeetRing and if so, if only today's events should be showed or if events for tomorrow should be included.
Available settings: None / Today Only / All

If you select to display *All day* appointment, the following apply:

- If a normal appointment exists within the defined display window, this appointment is displayed regardless of whether there exist *All day* appointments or not.
- If no normal appointment exists within the display window but an *All day* appointment exist for today, this *All day* appointment is displayed with the prefix "Today:".
- If no normal or *All day* appointments exist for today, but an *All day* appointment exist for tomorrow, that appointment is displayed with the prefix "Tomorrow:" (provided that you have selected to include tomorrows *All day* events in the display).
- If multiple *All day* appointments on the same day exist, only the first appointment in the list is displayed.



8.4.5. Messaging settings



Display unread SMS:

If **No**, the plugin ignores the SMS status and nothing will be displayed regarding SMS.

If **Yes**, the plugin displays “SMS: x” when there are unread SMS (x=number of unread SMS). If there are no unread SMS, nothing is displayed.

Available settings: Yes / No

Display unread MMS:

If **No**, the plugin ignores the MMS status and nothing will be displayed regarding MMS.

If **Yes**, the plugin displays “MMS: x” when there are unread MMS (x=number of unread MMS). If there are no unread MMS, nothing is displayed.

Available settings: Yes / No

Display unread VoiceMail:

If **No**, the plugin ignores the VoiceMail status and nothing will be displayed regarding VoiceMail .

If **Yes**, the plugin displays “VoiceMail : x” when there are unread VoiceMail (x=number of unread VoiceMail). If there are no unread VoiceMail, nothing is displayed.

Available settings: Yes / No

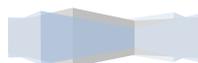
Display unread mail:

If **No** =>the plugin ignores the Mail status and nothing will be displayed regarding Mail .

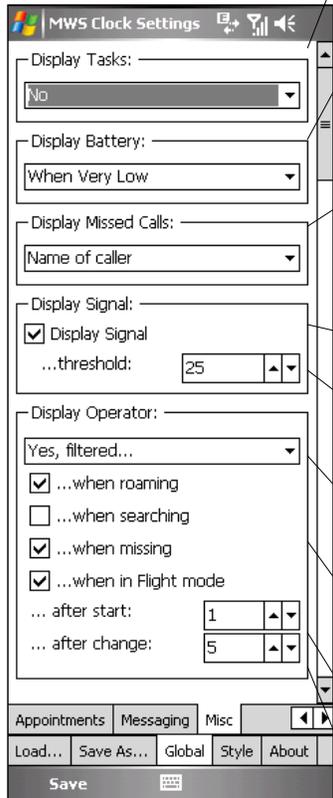
If **Yes, summary** => the plugin looks in all local mailboxes and summarize the number of unread mails. the plugin displays “Mail : x” when there are unread Mail (x=number of unread Mail). If there are no unread Mail, nothing is displayed.

If **Yes, separate** => the plugin looks in all local mailboxes and reports each mailbox separately. For each mailbox that has unread mail, the plugin displays the name of the mailbox and the number of unread mail in that mailbox. Mailboxes with no unread mail are ignored and not displayed.

Available settings: No / Yes, summary / Yes, separate



8.4.6. Miscellaneous settings



Display Tasks:
If **No** => Task display is inactive and nothing will be displayed.
If **Task pattern** => tasks information (number of tasks) will be displayed according to the selected pattern
Available settings: No, DueToday(Active, Active, DueToday/Overdue/Active, SumDueTodayOverdue(Active)

Display Battery Warning:
If **No** => Battery information is never shown
If **Level** => Battery information will be displayed if the level is below the specified level. If the battery level is above the specified level, nothing is displayed.
Available settings: No / When very low / When Low / When Medium / When High / When very high

Display Missed Calls:
If **No** => Information on missed calls is never shown
If **Count** => The fixed text "Missed Calls" will be displayed together with the number of missed calls.
If **Phone number** => The number of the last missed call will be displayed together with the number of missed calls.
If **Name of caller** => The name of the last missed call will be displayed together with the number of missed calls. If the name is unknown (i.e. the caller is not in the Contacts database), the number will be displayed instead.
Note: The display of name and number might be prevented by the caller or the operator, in which case "Unknown", "Private" or something similar will be displayed.
Available settings: No / Count / Phone number / Name of caller
Please note: This setting is ignored if your device doesn't have a built-in phone.

Signal: Display signal:
If **No** => Signal information is never shown
If **Yes** => Signal information will be displayed according to the threshold setting
Available settings: Yes / No

Signal: Threshold:
If current signal strength is above the threshold, nothing will be displayed. If current signal strength is below the threshold, a notification specifying the current signal strength will be shown.
Available settings: 0-100%

Operator: Display operator info:
If **No** => Operator information is never shown
If **Yes, always** => the operator information will always be displayed.
If **Yes, filtered** => Operator information will be displayed according to the following settings
Available settings: No, Yes, always / Yes, filtered

Operator: Display filter:
Select in what modes operator information will be displayed.
Available settings:

Operator: Display after start:
Determines if Operator information will be showed each time the device boots. The Operator name will be displayed the specified period and then it will be removed. If set to 0, Operator information will not be displayed in connection to a device boot.
Available settings: Any (minutes)

Operator: Display after change:
Determines if Operator information will be showed each time the Operator changes. The Operator name will be displayed the specified period and then it will be removed. If set to 0, Operator information will not be displayed in connection to an Operator change.
Available settings: Any (minutes)

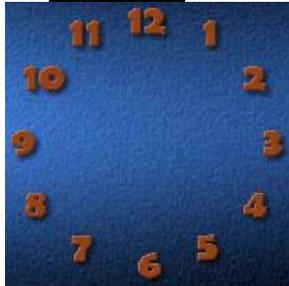


8.5. Style settings

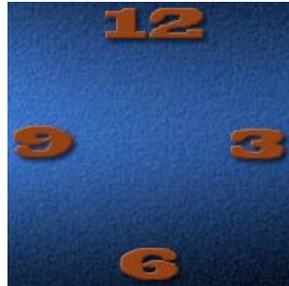
8.5.1. Base selection of components

The following base components are installed with the plugin and can be used for building clock designs.

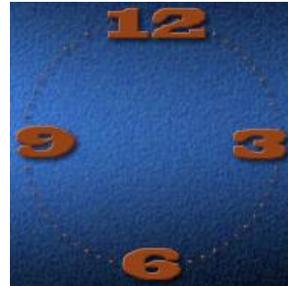
Clock Faces



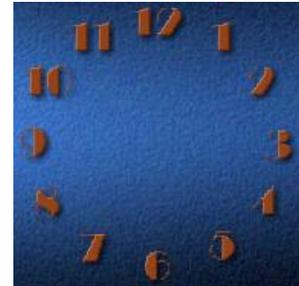
Berlin



Blackoak clean



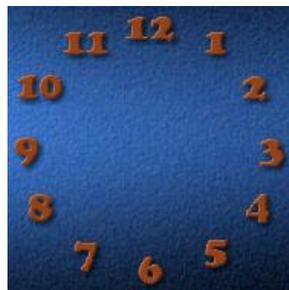
Blackoak dots



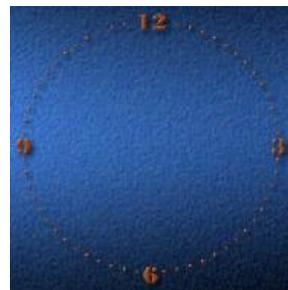
Broadway



Brush Script



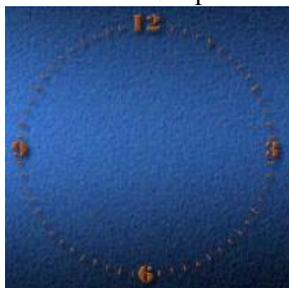
Cooper Black



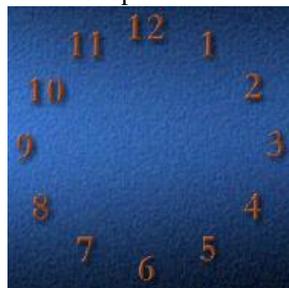
Dots



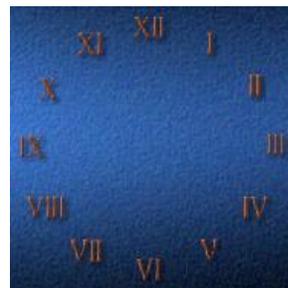
Jokerman



Lines



Plain



Roman 1



Roman 2

Clock Hands:



Hands 1



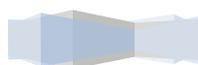
Hands 2



Hands 3

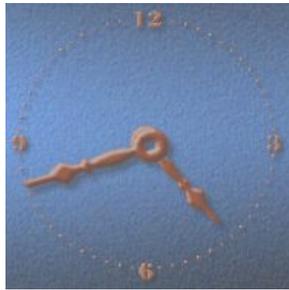


Hands 4





Hands 5

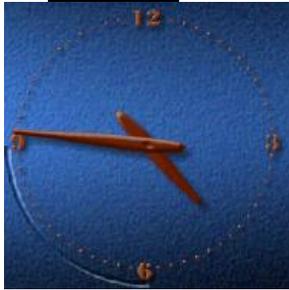


Hands 6



Hands 7

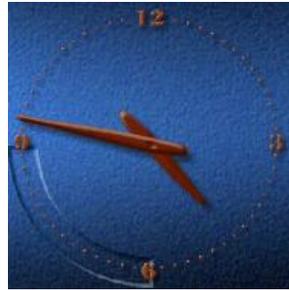
MeetRings:



default



medium



wide

Effects



Emboss 1



Emboss 2



Emboss 3



Emboss 4



Emboss Sharp



Emboss Soft 1



Emboss Soft 2



Indent 1



Indent 2



Indent 4



Indent 4



Indent Sharp



Indent Soft

Shadows



Soft



Medium



Hard



8.5.2. Configuration of graphical components

All graphical components (clock face, clock hands, clock digits and MeetRing) are constructed runtime using roughly the same setup of parameters. This section of the document covers the basic principles for clock component configuration, and gives details about all the available parameters and their effect. In this section, the clock face is used as an example, but the same principles go for all kind of graphical components. When differences between graphical components are present, this is clearly stated.

All components are stored in the configuration folder (*/Application data/MWS/Clock*).

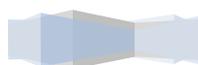
The short explanation of settings is this:

- Step 1 – Select a shape and add a surface,
- Step 2 – Select an effect.
- Step 3 – Select a shadow.

The somewhat longer explanation is...

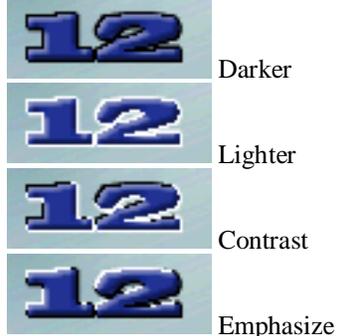
Step 1 – select a shape and add a surface

<p>First, you select an image file that includes the shape of the component. The program scans the configuration folder for files that contains components of the correct component type, and presents a dropdown list of available component.</p> <p>The list includes the selection <i>Refresh</i> that when selected, re-scans the configuration folder for new contents. Use this selection if you have added new component by copying them to the configuration folder.</p> <p>Clock face and clock hand images are automatically resized to fit the clock width parameter defined in the Layout section of the style parameters.</p> <p>Clock digit images are resized so that the display width equals the defined clock width.</p> <p>MeetRing images are resized according to the defined clock width, with an percentage adjustment to make the MeetRing larger or smaller than the clock face.</p>	
<p>Select a surface for the image. You can select</p> <ul style="list-style-type: none"> • Solid Color, in which case you can select what color to use • Background. The actual background image selected for the Today screen is used as surface for the component. This is especially handy when using effects do make the component as an ‘imprint’ on the background image. • Any image file defined as usable together with the selected component type. Surface images can be either generic for use with any kind of component, or component-specific. The program scans the configuration folder to find all surface images that are applicable. Use <i>Refresh</i> to re-scans the folder if you copy new file to it. <p>Surface images are automatically resized in the same manner as is the image files.</p>	 <p>Solid color used as surface</p>
<p><u>For clock hands only:</u> specify whether the surface image should be rotated along with the shape image.</p> <p>The shape image for the clock hands only includes the hands in a 12o’clock position; depending on the actual time, the shape is rotated to the correct position.</p> <p>If you have a solid color surface, it is no meaning in rotating the surface since it is always the same. If you use the background or a specially</p>	



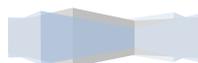
tailored surface image file it might make sense to rotate the surface image along with the shape image.	
<p><u>For clock digits only:</u> Some styles might mimic a real life clock display where the digits are constructed out of something more solid than electrons. One example is an old-time flip-digit alarm clock. In such a case, the first digit don't just "disappear" when it is zero – instead a blank or neutral piece of "display hardware" is put into place.</p> <p>To accurately reproduce the impression of that kind of display, the setting <i>Display zero placeholder</i> allows for turning this feature on or off. If the style image doesn't have any blank image defined this setting is ignored.</p>	
<p><u>For clock digits only:</u> You can define how the time display will be positioned on the screen. If <i>Use dynamic centering</i> is selected, the actual width of the clock display is re-calculated every minute, and based on that result the clock display is centered on the predefined center point (defined in the Layout section). From minute to minute, the digits will shift slightly sideways when the total width of the time display changes, but the display will always be centered.</p> <p>If <i>Use dynamic centering</i> is cleared, the time display will be locked and the digits will always be displayed in the same position. The time position is centered in reference to the maximum width the display can have with the configured time format. After the initial calculation, digit positions are fixed which gives a good impression of real life LED and flip-digit watches, though it can sometimes make the display look a bit off-balance.</p>	
Select transparency of the component. This is useful if you want a component (e.g. the MeetRing) to keep a low profile.	
<u>For MeetRing only:</u> specify the size of the MeetRing image in reference to the defined clock width. Use this if you want the MeetRing to be positioned outside (or inside) of the clock face.	

Step 2 – Select an effect.

Effects are defined as xml files in the configuration folder, and the program scans that folder and presents a list of available effects. Select <i>Refresh</i> if you add additional effect files, and want up refresh the list.	
The effects use <i>convolution filters</i> to calculate the effect of light being applied from a certain angle. You can specify the color of that light, but frankly, white is often the best...	
<p>You can add an <i>Edge Enhancement</i> that modifies the edge of the shape to enhance the contrast or simply to add an edge.</p> <p>You can specify the impact on the edge enhancement (0-100%). The examples to the right are using 100%, just to make the effect very obvious. In reality you'd use more subtle changes just to make the shape stand out from the surrounding area.</p>	

Step 3 – Add a shadow

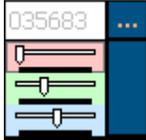
Shadow effects are defined as xml files in the configuration folder, and the program scans that folder and presents a list of available shadows. Select <i>Refresh</i> if you add additional shadow files, and want up refresh the list.	
You can specify the color of the shadow, but frankly, black is often the best...	
You specify the displacement of the shadow in reference to the component image, i.e. the 'height' of the image from the background image. You can specify up to 20 pixel displacement of the shadow, but 3-5 pixels often gives the best effect.	
Finally, you define a transparency of the shadow in order to make it somewhat less obvious and more blurry.	



8.5.3. Color coding

For the font colors, shadow colors effect light and solid surface colors, a color code representing the exact color should be entered. This color code is a hexadecimal representation on RGB color coding where 000000 equals black and FFFFFFF equals white. To see the actual colors, you need a program that can handle RGB colors (like Photoshop or Paint Shop Pro), or you can use a web service like <http://www.colorschemer.com/online.html>

The color input fields can contain max 6 hexadecimal characters³. If fewer characters are entered, the field is padded to the right with '0'-characters. If more than 6 characters are entered, only the first (leftmost) 6 characters are used.

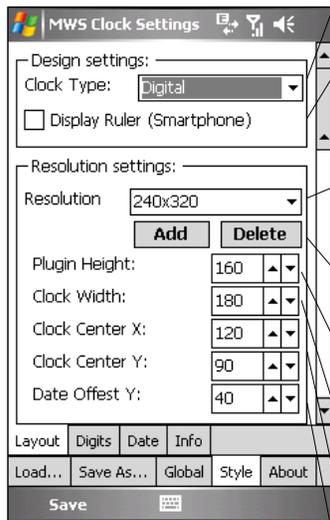


You can also edit colors by clicking on the color field to the right of the input field, and adjust the trackbars for the red, blue and green color components. The resultant color is immediately displayed in the color field. To close the drawbar region, click the color field once more.

³ 0-9, A,B,C,D,E,F

8.5.4. Layout settings

The Layout section is where you define the type of clock you want to display, and the size and position of the clock display.



Clock Type:

Select *Analog* or *Digital* depending on the type of clock display you want. When this setting is changed, the tab structure for the Style tabs is changed to reflect the clock component available for the selected clock type.

Available settings: Analog / Digital

Display Ruler:

This setting has no meaning on a Pocket PC / Professional device, since today screen rulers cannot be configured. You can configure this if you plan to export the style file to a Smartphone / Standard device.

On a Smartphone / Standard device, this setting enables or disables the display of a ruler (a thin line) inbetween plugins.

Available settings: On / Off

Resolution:

The clock plugin can handle any screen resolution and screen orientation. On any given device, only (max) two resolution settings are used; the landscape and portrait resolutions for that device. The MWS Clock Settings program can handle any number of resolution settings in order to prepare a style file for usage on many different devices with various resolutions.

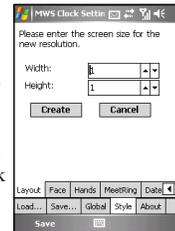
When a resolution is selected in the dropdown list, the characteristics for that resolution is displayed in the fields below the dropdown box.

Available settings: Defined resolutions

Add / Delete buttons:

Press the **Delete** button to remove the selected resolution from the style definition file.

Press the **Add** button to add a new resolution to the style definition file. On a separate page you will be able to enter the width and height for the new resolution, and once you get back to this page you can adjust the settings for the resolution.



Plugin height:

Enter the number of pixels that the plugin should occupy on the screen.

Available settings: Any

Clock width:

Enter the number of pixels that the clock display should occupy on the screen. Please note that this is not the width of the plugin (which is always the total width of the screen), but the actual width of the clock itself. An analog clock face and clock hands width and height will be scaled to this value. The MeetRing width and height will be scaled to this value adjusted with the settings for the MeetRing. A digital clock will adjust the total width of the displayed digits to this value, and scale the height of the digits proportionally.

Available settings: Any

Clock Center X and Y:

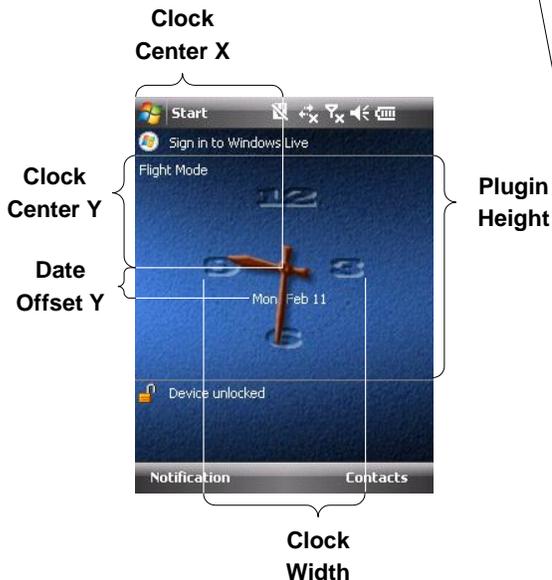
Enter the center location of the clock relative to the upper left corner of the clock plugin screen space (i.e. not relative to the upper, left corner of the screen itself)

Available settings: Any

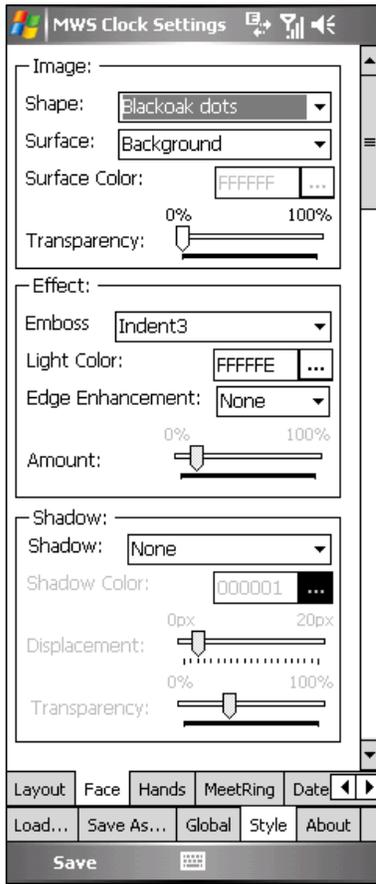
Date Offset Y:

Enter the vertical offset of the Date display relative to the clock center position. Date display cannot be adjusted horizontally relative the clock center position.

Available settings: Any



8.5.5. Analog clock face settings

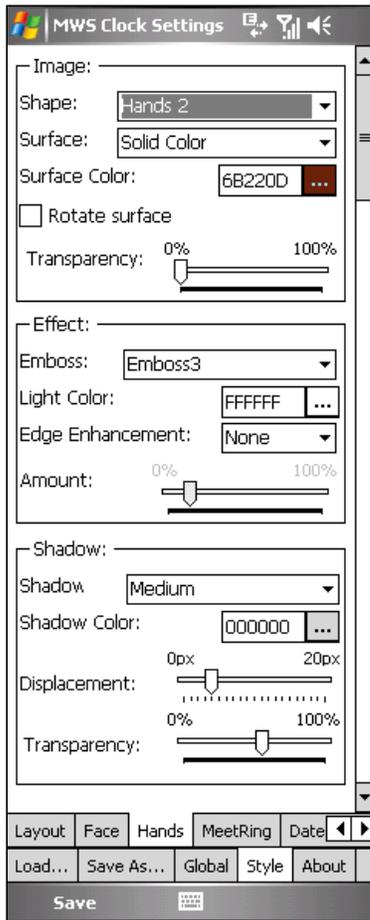


Analog clock face settings:

Please turn to the section *Configuration of graphical components* for an explanation of the settings.



8.5.6. Analog clock hands settings

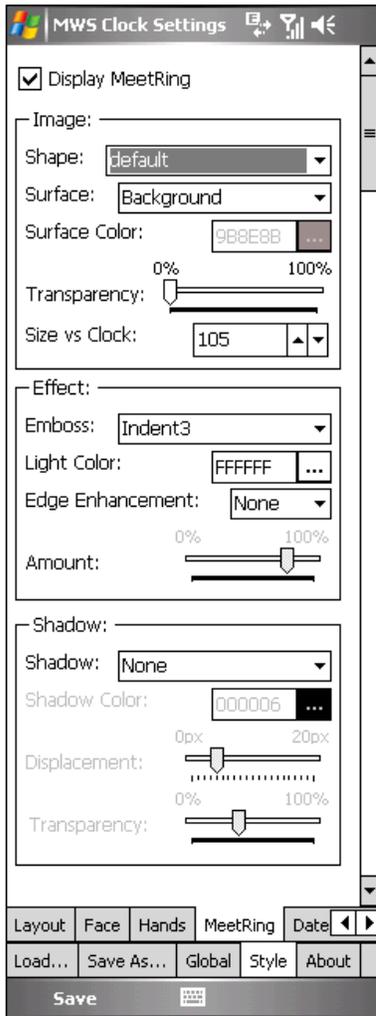


Analog clock hands settings:

Please turn to the section *Configuration of graphical components* for an explanation of the settings.



8.5.7. MeetRing settings



Display MeetRing:

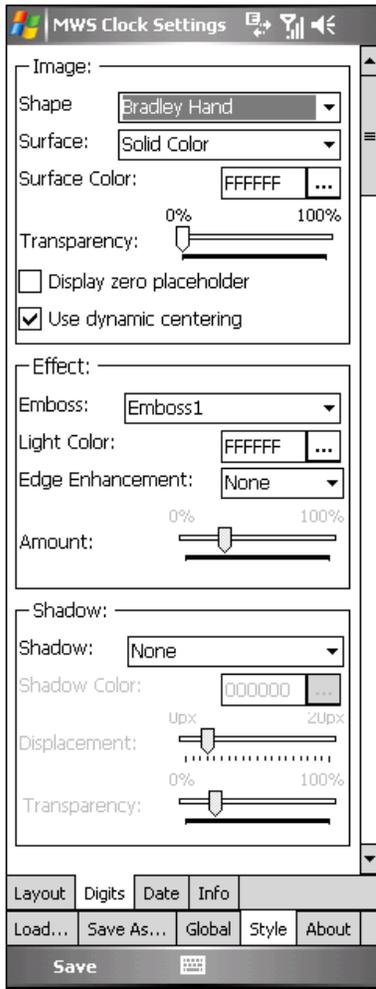
Select whether or not the MeetRing should be displayed

MeetRing settings:

Please turn to the section *Configuration of graphical components* for an explanation of the settings.



8.5.8. Clock digits settings



Clok digits settings:
 Please turn to the section *Configuration of graphical components* for an explanation of the settings.



8.5.9. Date settings

Display Date:
Select whether or not to display the date.

Use System Font:
If selected, the system font (font name, color, size, attributes) is used. If cleared, the font settings in the *Font settings* box is used.

Font settings:
Select the font name, size, color and attributes to use in the date display.

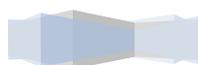
8.5.10. Status Info settings

Display Statusinfo:
Select whether or not to display status information.

Use System Font:
If selected, the system font (font name, color, size, attributes) is used. If cleared, the font settings in the *Font settings* box is used.

Font settings:
Select the font name, size, color and attributes to use in the statusinfo display.

Padding:
Set the padding (i.e. the distance from the screen edge) for the status info display. *Top*, *Bottom*, *Left* and *Right* are the distance from respective edge. The *Space* setting is *extra* padding between lines (i.e. in addition to the ordinary line space).



9. Advanced tweaking; adding a clock style reference to a theme file

The concept of loading a fixed clock style together with a theme is called an *inline* style, and the definition of the inline style is controlled by a registry key. In order for a theme to automatically load a specific clock style, the theme .tsk file must include the registry key:

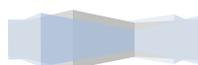
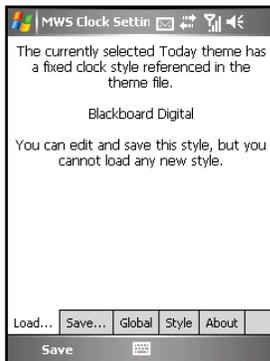
```
HKCU\Software\Microsoft\Today\MWSClockPluginFixedStyle REG_SZ <style file>
```

The <style file> reference must be the complete file name of the style file to be loaded (only the file name, not the path). The file name of a style is the same as is displayed in the MWS Clock Settings program (e.g. “*Blackboard Digital*”) with the double extension “.mwsst.xml” (e.g. “*Blackboard Digital.mwsst.xml*”).

Please note the following: If you add this registry key in **one** theme file, you’re more or less forced to add it to **all** theme files that are to be used with the clock plugin, even if the other themes shouldn’t load any specific clock style. If you load a theme that stores a value in this registry key, it will get ‘stuck’ in the registry unless you explicitly remove it by storing a blank value. If you later loads another theme without this registry key, the old value will still be in the registry, and the new theme will use that style (and it will be persistent, you cannot load a new style with the MWS Clock Settings program as long as that registry key exist).

The non-Fixed themes delivered with the clock plugin include an empty registry setting in order to neutralize any previous fixed style setting.

If the *MWSClockPluginFixedStyle* registry key exist and contains a file name, the following page will be displayed when you start the MWS Clock Settings program:



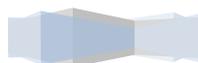
10. *Support, downloads and uploads*

At the support forum (forum.mobilewithstyle.com), additional information is available along with program updates and additional downloads.

To get access to program updates and additional downloads, please register a user account on the forum using the same email address as you used when purchasing the software.

In the forum, you can...

- Read the latest news
- Read the latest FAQ
- Post feature requests and bug reports, and see lists of current feature requests and bugs.
- Get support
- Download program updates (registered users only)
- Download additional clock components, styles, Home Screens and Today themes (registered users only)
- Getting help with home.xml and Today theme creation (registered users only, and to a reasonable extent)
- Publish your own designs and share with other registered users.



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