

MERCURY

Application Programming Interface v1.6.2 (October 2026)



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1 Application Programming Interface

1.1 Connection Method

The Mercury API is a TCP socket connection. By default the connection is encrypted with TLS 1.2 or later; when Socket API encryption is turned off on the Security webpage, the connection is plain, unencrypted TCP.

To enable the use of the API, go to the Mercury Configuration System Settings Security webpage. Set the Socket API Port to a non-zero value and save. Also create a new User and assign it the API Role. Your client TCP Socket will use this new user to login to the API port. Open your client TCP Socket using the device IP address and port assigned in the Mercury Configuration webpage.

Upon connection the client TCP Socket will receive a login and password prompt.

Login Prompt:

```
login:
Password:
```

Respond with the credentials of the API user you created above.

A user from a directory (LDAP) server logs in with `ldap:` in front of the user name, for example `ldap:jsmith`. Either way, the user must have the API role.

Login Success Response:

```
Welcome to Mercury!
```

Login Failure Response:

```
Login incorrect
```

After a failed login the device sends the login prompt again.

The device closes a session that has sent no command for longer than the Socket API session timeout set on the Security webpage: 15 minutes by default, and 0 turns the timeout off.

1.2 Response Types

For a command it recognizes, the device first echoes the command line back. It then sends any reply lines, and finally a line that reads `SUCCESS` or `ERROR`. Every line ends with CR LF.

Replies that end with `SUCCESS`:

- `OK` - a set, commit or rollback succeeded.
- `path: value` - one line for each value a get returns, for example `feature background opacity: 255`.
- `batched` - batch opened a batch, or a set inside a batch was accepted; commit applies it.

Replies that end with `ERROR`:

- `Invalid command` - the first word is not a command. This reply is not preceded by an echo.

- Invalid syntax - a set has no colon or no value after it, a get has no path, or a quotation mark is not closed.
- Invalid path: *pathString* - the path does not exist, an index is out of range, or the field cannot be read or set.
- Invalid value: *valueString* - the value is not allowed for that field.
- Failed - a setup command was refused, for example an unknown preset name or a date outside 2000 to 2037.
- Batch already started - batch was sent while a batch was open.
- No batch started - rollback was sent with no batch open.

1.3 Commands

Each command is one line. The first word is the command; it and the words of the path are not case-sensitive.

`get path`

Returns the value at *path*. A path that stops above a value, such as `get feature background`, returns every readable value below it, one `path: value` line each.

`set path: value`

Sets one value and saves it to the running preset.

`batch`

`commit`

`rollback`

`batch` opens a batch. Each set after it replies `batched` and is held until `commit` applies and saves them all at once, or `rollback` discards them. A get inside a batch returns the values the batch has set. A batch holds feature values or runtime values, not both. Setup commands are applied at once, even inside a batch. A commit with no batch open replies `No batch started` followed by `SUCCESS`.

`exit`

Closes the session. `quit` does the same.

Runtime values. A set whose path starts with `runtime` instead of `feature` changes what the sign shows at once, without saving it to the preset, for example `set runtime message 0 text: "Meeting in progress"`. A get that starts with `runtime` returns the saved value.

Values. Surround a value that contains a space or a colon with straight double quotes, for example `"sample text"`. Numbers are whole numbers. Boolean values, animation types, background and icon names and time zones are not case-sensitive; every other value is. A get returns a value that contains a space or a slash in double quotes.

2 Background Configuration

2.1 Feature Background FillColor

Default value: #000000

Usage:

```
get feature background fillColor
set feature background fillColor: value
```

Where

value: 6-digit hexadecimal RGB value (#RRGGBB)

2.2 Feature Background Name

Provides access only to built-in background images. For custom background image access use the Feature Background Filename command.

Default value: "Daylight World Clock"

Usage:

```
get feature background name
set feature background name: value
```

Where

value: String ("Daylight World Clock" | "Metal Siding" | "Mesh" | "Wicker" | "Camouflage" | "Brushed Metal" | "Old Surface").

2.3 Feature Background Filename

Provides access to custom background images that were uploaded using the Mercury web Configuration tool.

Default value: ""

Usage:

```
get feature background filename
set feature background filename: value
```

Where

value: String (0...256 characters) If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

2.4 Feature Background Visible

Default value: true

Usage:

```
get feature background visible  
set feature background visible: value
```

Where

value: Boolean (true|false)

2.5 Feature Background Type

Default value: daylightClock

Usage:

```
get feature background type  
set feature background type: value
```

Where

value: String (daylightClock|image)

2.6 Feature Background Size

Default value: auto

Usage:

```
get feature background size  
set feature background size: value
```

Where

value: String (auto|cover|contain)

2.7 Feature Background Repeat

Default value: repeat

Usage:

```
get feature background repeat  
set feature background repeat: value
```

Where

value: String (repeat|no-repeat)

2.8 Feature Background Opacity

Default value: 255

Usage:

```
get feature background opacity
set feature background opacity: value
```

Where

value: Number (0...255)

2.9 Feature Background BorderColor

Default value: #00000000

Usage:

```
get feature background borderColor
set feature background borderColor: value
```

Where

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

2.10 Feature Background BorderWidth

Default value: 0

Usage:

```
get feature background borderWidth
set feature background borderWidth: value
```

Where

value: Number (0...1000000)

2.11 Feature Background BorderAnimation Speed

Default value: 0

Usage:

```
get feature background borderAnimation speed
set feature background borderAnimation speed: value
```

Where

value: Number (0...10)

2.12 Feature Background BorderAnimation Type

Default value: "static"

Usage:

```
get feature background borderAnimation type
```

```
set feature background borderAnimation type: value
```

Where

value: String (static|blink)

2.13 Feature Background BorderContain

Setting BorderContain to true will force the background image and color to be fully displayed, following the background size and repeat settings, within the border. Setting BorderContain to false will allow the background image and color to expand underneath the border. This is useful when the background border is blinking so that the background image and color will be present while the border blinks off.

Default value: true

Usage:

```
get feature background borderContain
set feature background borderContain: value
```

Where

value: Boolean (true|false)

3 ClockGroup Configuration

The Feature Clock Group is a list of zero or more clock groups. An index must be provided to access the individual clock group attributes. The index is zero-based (i.e. index 0 for first clock group, index 1 for second clock group, index n-1 for nth clock group). Clock Groups can only be added or removed from the settings features web page.

If any Clock attribute value has not yet been set, then the Get command will return a value of “None”. In this case the Clock attribute will inherit the ClockGroup value for the corresponding attribute. This allows changing the ClockGroup attribute value to affect all the Clocks at once. For example, setting the ClockGroup Settings SecondsVisible will change all the Clock SecondsVisible values. Once a Clock attribute value has been set directly using Set Feature Clock *Index* <Attribute>: *Value* then that specific attribute will no longer inherit the ClockGroup attribute value.

3.1 Feature ClockGroup Visible

Default value: true

Usage:

```
get feature clockGroup index visible
set feature clockGroup index visible: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.2 Feature ClockGroup Name

Default value: "<group name>"

Usage:

```
get feature clockGroup index name
set feature clockGroup index name: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (0...256 characters) If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

3.3 Feature ClockGroup NameVisible

Default value: false

Usage:

```
get feature clockGroup index nameVisible
set feature clockGroup index nameVisible: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.4 Feature ClockGroup NameFont Color

Default value: #000000

Usage:

```
get feature clockGroup index nameFont color
set feature clockGroup index nameFont color: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.5 Feature ClockGroup NameFont Size

Default value: 30

Usage:

```
get feature clockGroup index nameFont size
set feature clockGroup index nameFont size: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.6 Feature ClockGroup NameFont Family

Default value: open-sans

Usage:

```
get feature clockGroup index nameFont family
set feature clockGroup index nameFont family: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

3.7 Feature ClockGroup NameFont Style

Default value: normal

Usage:

```
get feature clockGroup index nameFont style
set feature clockGroup index nameFont style: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|italic)

3.8 Feature ClockGroup NameFont Weight

Default value: normal

Usage:

```
get feature clockGroup index nameFont weight
set feature clockGroup index nameFont weight: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|bold)

3.9 Feature ClockGroup NameFont BackgroundColor

Default value: #ffffff64

Usage:

```
get feature clockGroup index nameFont backgroundColor
set feature clockGroup index nameFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.10 Feature ClockGroup NameFont BorderColor

Default value: #ffffff64

Usage:

```
get feature clockGroup index nameFont borderColor
set feature clockGroup index nameFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.11 Feature ClockGroup NameFont BorderWidth

Default value: 1

Usage:

```
get feature clockGroup index nameFont borderWidth
set feature clockGroup index nameFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.12 Feature ClockGroup NameFont BorderRadius

Default value: 20

Usage:

```
get feature clockGroup index nameFont borderRadius
set feature clockGroup index nameFont borderRadius: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.13 Feature ClockGroup Settings Type

Default value: "clock"

Usage:

```
get feature clockGroup index settings type
set feature clockGroup index settings type: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (clock|timer|stopwatch)

3.14 Feature ClockGroup Settings DisplayType

Default value: "analog"

Usage:

```
get feature clockGroup index settings displayType
set feature clockGroup index settings displayType: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (analog|digital|both)

3.15 Feature ClockGroup Settings AnalogClockFont Color

Default value: #000000

Usage:

```
get feature clockGroup index settings analogClockFont color
set feature clockGroup index settings analogClockFont color: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.16 Feature ClockGroup Settings AnalogClockFont Size

Default value: 200

Usage:

```
get feature clockGroup index settings analogClockFont size
set feature clockGroup index settings analogClockFont size: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (20...800)

3.17 Feature ClockGroup Settings AnalogClockFont Family

Default value: open-sans

Usage:

```
get feature clockGroup index settings analogClockFont family
set feature clockGroup index settings analogClockFont family: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

3.18 Feature ClockGroup Settings AnalogClockFont Style

Default value: normal

Usage:

```
get feature clockGroup index settings analogClockFont style
set feature clockGroup index settings analogClockFont style: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|italic)

3.19 Feature ClockGroup Settings AnalogClockFont Weight

Default value: normal

Usage:

```
get feature clockGroup index settings analogClockFont weight
set feature clockGroup index settings analogClockFont weight: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|bold)

3.20 Feature ClockGroup Settings AnalogClockFont FontSize

Default value: 40

Usage:

```
get feature clockGroup index settings analogClockFont fontSize
set feature clockGroup index settings analogClockFont fontSize: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (10...100)

3.21 Feature ClockGroup Settings AnalogClockFont FontColor

Default value: #000000

Usage:

```
get feature clockGroup index settings analogClockFont fontColor
set feature clockGroup index settings analogClockFont fontColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.22 Feature ClockGroup Settings AnalogClockFont BackgroundColor

Default value: #ffffff

Usage:

```
get feature clockGroup index settings analogClockFont backgroundColor
set feature clockGroup index settings analogClockFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.23 Feature ClockGroup Settings AnalogClockFont BorderColor

Default value: #000000ff

Usage:

```
get feature clockGroup index settings analogClockFont borderColor
set feature clockGroup index settings analogClockFont borderColor:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.24 Feature ClockGroup Settings AnalogClockFont BorderWidth

Default value: 10

Usage:

```
get feature clockGroup index settings analogClockFont borderWidth
set feature clockGroup index settings analogClockFont borderWidth:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.25 Feature ClockGroup Settings AnalogClockFont HourHandColor

Default value: #333333

Usage:

```
get feature clockGroup index settings analogClockFont hourHandColor
set feature clockGroup index settings analogClockFont hourHandColor:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.26 Feature ClockGroup Settings AnalogClockFont HourHandBorderColor

Default value: #000000

Usage:

```
get feature clockGroup index settings analogClockFont
hourHandBorderColor
```

```
set feature clockGroup index settings analogClockFont
hourHandBorderColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.27 Feature ClockGroup Settings AnalogClockFont MinuteHandColor

Default value: #333333

Usage:

```
get feature clockGroup index settings analogClockFont minuteHandColor
set feature clockGroup index settings analogClockFont minuteHandColor:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.28 Feature ClockGroup Settings AnalogClockFont MinuteHandBorderColor

Default value: #000000

Usage:

```
get feature clockGroup index settings analogClockFont
minuteHandBorderColor
set feature clockGroup index settings analogClockFont
minuteHandBorderColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.29 Feature ClockGroup Settings AnalogClockFont SecondHandColor

Default value: #333333

Usage:

```
get feature clockGroup index settings analogClockFont secondHandColor
set feature clockGroup index settings analogClockFont secondHandColor:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.30 Feature ClockGroup Settings DigitalClockFont Color

Default value: #ffffff

Usage:

```
get feature clockGroup index settings digitalClockFont color
set feature clockGroup index settings digitalClockFont color: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.31 Feature ClockGroup Settings DigitalClockFont Size

Default value: 90

Usage:

```
get feature clockGroup index settings digitalClockFont size
set feature clockGroup index settings digitalClockFont size: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.32 Feature ClockGroup Settings DigitalClockFont Family

Default value: dseg7-classic

Usage:

```
get feature clockGroup index settings digitalClockFont family
set feature clockGroup index settings digitalClockFont family: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

3.33 Feature ClockGroup Settings DigitalClockFont Style

Default value: normal

Usage:

```
get feature clockGroup index settings digitalClockFont style
set feature clockGroup index settings digitalClockFont style: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|italic)

3.34 Feature ClockGroup Settings DigitalClockFont Weight

Default value: normal

Usage:

```
get feature clockGroup index settings digitalClockFont weight
set feature clockGroup index settings digitalClockFont weight: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|bold)

3.35 Feature ClockGroup Settings DigitalClockFont BackgroundColor

Default value: #ff000000

Usage:

```
get feature clockGroup index settings digitalClockFont backgroundColor
set feature clockGroup index settings digitalClockFont
backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.36 Feature ClockGroup Settings DigitalClockFont BorderColor

Default value: #85000000

Usage:

```
get feature clockGroup index settings digitalClockFont borderColor
set feature clockGroup index settings digitalClockFont borderColor:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.37 Feature ClockGroup Settings DigitalClockFont BorderWidth

Default value: 0

Usage:

```
get feature clockGroup index settings digitalClockFont borderWidth
set feature clockGroup index settings digitalClockFont borderWidth:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.38 Feature ClockGroup Settings DigitalClockFont BorderRadius

Default value: 0

Usage:

```
get feature clockGroup index settings digitalClockFont borderRadius
set feature clockGroup index settings digitalClockFont borderRadius:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.39 Feature ClockGroup Settings ClockNameFont Color

Default value: #ffffff

Usage:

```
get feature clockGroup index settings clockNameFont color
set feature clockGroup index settings clockNameFont color: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.40 Feature ClockGroup Settings ClockNameFont Size

Default value: 25

Usage:

```
get feature clockGroup index settings clockNameFont size
```

```
set feature clockGroup index settings clockNameFont size: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.41 Feature ClockGroup Settings ClockNameFont Family

Default value: open-sans

Usage:

```
get feature clockGroup index settings clockNameFont family
```

```
set feature clockGroup index settings clockNameFont family: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

3.42 Feature ClockGroup Settings ClockNameFont Style

Default value: normal

Usage:

```
get feature clockGroup index settings clockNameFont style
```

```
set feature clockGroup index settings clockNameFont style: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|italic)

3.43 Feature ClockGroup Settings ClockNameFont Weight

Default value: normal

Usage:

```
get feature clockGroup index settings clockNameFont weight
```

```
set feature clockGroup index settings clockNameFont weight: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|bold)

3.44 Feature ClockGroup Settings ClockNameFont BackgroundColor

Default value: #a07f0000

Usage:

```
get feature clockGroup index settings clockNameFont backgroundColor
set feature clockGroup index settings clockNameFont backgroundColor:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.45 Feature ClockGroup Settings ClockNameFont BorderColor

Default value: #ff7f0000

Usage:

```
get feature clockGroup index settings clockNameFont borderColor
set feature clockGroup index settings clockNameFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.46 Feature ClockGroup Settings ClockNameFont BorderWidth

Default value: 0

Usage:

```
get feature clockGroup index settings clockNameFont borderWidth
set feature clockGroup index settings clockNameFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.47 Feature ClockGroup Settings ClockNameFont BorderRadius

Default value: 0

Usage:

```
get feature clockGroup index settings clockNameFont borderRadius
set feature clockGroup index settings clockNameFont borderRadius:
value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.48 Feature ClockGroup Settings DateFont Color

Default value: #ffdd00

Usage:

```
get feature clockGroup index settings dateFont color
set feature clockGroup index settings dateFont color: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 6-digit hexadecimal RGB value (#RRGGBB)

3.49 Feature ClockGroup Settings DateFont Size

Default value: 25

Usage:

```
get feature clockGroup index settings dateFont size
set feature clockGroup index settings dateFont size: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.50 Feature ClockGroup Settings DateFont Family

Default value: open-sans

Usage:

```
get feature clockGroup index settings dateFont family
set feature clockGroup index settings dateFont family: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

3.51 Feature ClockGroup Settings DateFont Style

Default value: normal

Usage:

```
get feature clockGroup index settings dateFont style
set feature clockGroup index settings dateFont style: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|italic)

3.52 Feature ClockGroup Settings DateFont Weight

Default value: normal

Usage:

```
get feature clockGroup index settings dateFont weight
set feature clockGroup index settings dateFont weight: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: String (normal|bold)

3.53 Feature ClockGroup Settings DateFont BackgroundColor

Default value: #a07f0000

Usage:

```
get feature clockGroup index settings dateFont backgroundColor
set feature clockGroup index settings dateFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.54 Feature ClockGroup Settings DateFont BorderColor

Default value: #ff7f0000

Usage:

```
get feature clockGroup index settings dateFont borderColor
set feature clockGroup index settings dateFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

3.55 Feature ClockGroup Settings DateFont BorderWidth

Default value: 0

Usage:

```
get feature clockGroup index settings dateFont borderWidth
set feature clockGroup index settings dateFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.56 Feature ClockGroup Settings DateFont BorderRadius

Default value: 0

Usage:

```
get feature clockGroup index settings dateFont borderRadius
set feature clockGroup index settings dateFont borderRadius: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...1000000)

3.57 Feature ClockGroup Settings DateVisible

Default value: true

Usage:

```
get feature clockGroup index settings dateVisible
set feature clockGroup index settings dateVisible: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.58 Feature ClockGroup Settings Format24hr

Default value: true

Usage:

```
get feature clockGroup index settings format24hr
set feature clockGroup index settings format24hr: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.59 Feature ClockGroup Settings NameVisible

Default value: true

Usage:

```
get feature clockGroup index settings nameVisible
set feature clockGroup index settings nameVisible: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.60 Feature ClockGroup Settings SecondsVisible

Default value: false

Usage:

```
get feature clockGroup index settings secondsVisible
set feature clockGroup index settings secondsVisible: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.61 Feature ClockGroup Settings TimeZone

Default value: "America/New_York"

Usage:

```
get feature clockGroup index settings timeZone
set feature clockGroup index settings timeZone: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: a time zone name. Names are not case-sensitive. The list below is a selection: the device also accepts the other names in its time zone database, including aliases such as US/Eastern and Canada/Pacific.

"Africa/Abidjan", "Africa/Accra", "Africa/Addis_Ababa", "Africa/Algiers", "Africa/Asmara",
 "Africa/Bamako", "Africa/Bangui", "Africa/Banjul", "Africa/Bissau", "Africa/Blantyre",
 "Africa/Brazzaville", "Africa/Bujumbura", "Africa/Cairo", "Africa/Casablanca", "Africa/Conakry",
 "Africa/Dakar", "Africa/Dar_es_Salaam", "Africa/Djibouti", "Africa/Douala", "Africa/El_Aaiun",
 "Africa/Freetown", "Africa/Gaborone", "Africa/Harare", "Africa/Johannesburg", "Africa/Juba",
 "Africa/Kampala", "Africa/Khartoum", "Africa/Kigali", "Africa/Kinshasa", "Africa/Lagos",
 "Africa/Libreville", "Africa/Lome", "Africa/Luanda", "Africa/Lubumbashi", "Africa/Lusaka",
 "Africa/Malabo", "Africa/Maputo", "Africa/Maseru", "Africa/Mbabane", "Africa/Mogadishu",
 "Africa/Monrovia", "Africa/Nairobi", "Africa/Ndjamena", "Africa/Niamey", "Africa/Nouakchott",
 "Africa/Ouagadougou", "Africa/Porto-Novo", "Africa/Sao_Tome", "Africa/Tripoli", "Africa/Tunis",
 "Africa/Windhoek",

"America/Adak", "America/Anchorage", "America/Anguilla", "America/Antigua",
 "America/Argentina/Buenos_Aires", "America/Aruba", "America/Asuncion", "America/Atikokan",
 "America/Barbados", "America/Belize", "America/Blanc-Sablon", "America/Bogota", "America/Cancun",
 "America/Caracas", "America/Cayenne", "America/Cayman", "America/Chicago", "America/Costa_Rica",
 "America/Curacao", "America/Danmarkshavn", "America/Denver", "America/Dominica",
 "America/Edmonton", "America/El_Salvador", "America/Grand_Turk", "America/Grenada",
 "America/Guadeloupe", "America/Guatemala", "America/Guayaquil", "America/Guyana",
 "America/Halifax", "America/Havana", "America/Hermosillo", "America/Jamaica", "America/Kralendijk",
 "America/La_Paz", "America/Lima", "America/Los_Angeles", "America/Lower_Princes",
 "America/Managua", "America/Manaus", "America/Marigot", "America/Martinique",
 "America/Matamoros", "America/Mexico_City", "America/Miquelon", "America/Montevideo",
 "America/Montserrat", "America/Nassau", "America/New_York", "America/Noronha",
 "America/Godthab", "America/Panama", "America/Paramaribo", "America/Phoenix",
 "America/Port_of_Spain", "America/Port-au-Prince", "America/Puerto_Rico", "America/Punta_Arenas",
 "America/Regina", "America/Rio_Branco", "America/Santiago", "America/Santo_Domingo",
 "America/Sao_Paulo", "America/Scoresbysund", "America/St_Barthlemy", "America/St_Johns",
 "America/St_Kitts", "America/St_Lucia", "America/St_Thomas", "America/St_Vincent",
 "America/Tegucigalpa", "America/Thule", "America/Tijuana", "America/Toronto", "America/Tortola",
 "America/Vancouver", "America/Whitehorse", "America/Winnipeg",

"Antarctica/Casey", "Antarctica/Davis", "Antarctica/DumontDUrville", "Antarctica/Mawson",
 "Antarctica/McMurdo", "Antarctica/Palmer", "Antarctica/Syowa", "Antarctica/Troll",
 "Antarctica/Vostok",

"Arctic/Longyearbyen",

"Asia/Aden", "Asia/Almaty", "Asia/Amman", "Asia/Aqtobe", "Asia/Ashgabat", "Asia/Baghdad",
 "Asia/Bahrain", "Asia/Baku", "Asia/Bangkok", "Asia/Beirut", "Asia/Bishkek", "Asia/Brunei", "Asia/Chita",
 "Asia/Colombo", "Asia/Damascus", "Asia/Dhaka", "Asia/Dili", "Asia/Dubai", "Asia/Dushanbe",

"Asia/Hebron", "Asia/Ho_Chi_Minh", "Asia/Hong_Kong", "Asia/Hovd", "Asia/Irkutsk", "Asia/Jakarta", "Asia/Jayapura", "Asia/Jerusalem", "Asia/Kabul", "Asia/Kamchatka", "Asia/Karachi", "Asia/Kathmandu", "Asia/Kolkata", "Asia/Kuala_Lumpur", "Asia/Kuwait", "Asia/Macau", "Asia/Makassar", "Asia/Manila", "Asia/Muscat", "Asia/Nicosia", "Asia/Novosibirsk", "Asia/Omsk", "Asia/Phnom_Penh", "Asia/Pyongyang", "Asia/Qatar", "Asia/Riyadh", "Asia/Sakhalin", "Asia/Seoul", "Asia/Shanghai", "Asia/Singapore", "Asia/Taipei", "Asia/Tashkent", "Asia/Tbilisi", "Asia/Tehran", "Asia/Thimphu", "Asia/Tokyo", "Asia/Ulaanbaatar", "Asia/Urumqi", "Asia/Vientiane", "Asia/Vladivostok", "Asia/Yangon", "Asia/Yekaterinburg", "Asia/Yerevan",

"Atlantic/Azores", "Atlantic/Bermuda", "Atlantic/Canary", "Atlantic/Cape_Verde", "Atlantic/Faroe", "Atlantic/Reykjavik", "Atlantic/South_Georgia", "Atlantic/St_Helena", "Atlantic/Stanley", "Australia/Adelaide", "Australia/Brisbane", "Australia/Darwin", "Australia/Eucla", "Australia/Lord_Howe", "Australia/Perth", "Australia/Sydney",

"Etc/UTC",

"Europe/Amsterdam", "Europe/Andorra", "Europe/Athens", "Europe/Belgrade", "Europe/Berlin", "Europe/Bratislava", "Europe/Brussels", "Europe/Bucharest", "Europe/Budapest", "Europe/Chisinau", "Europe/Copenhagen", "Europe/Dublin", "Europe/Gibraltar", "Europe/Guernsey", "Europe/Helsinki", "Europe/Isle_of_Man", "Europe/Istanbul", "Europe/Jersey", "Europe/Kaliningrad", "Europe/Kiev", "Europe/Lisbon", "Europe/Ljubljana", "Europe/London", "Europe/Luxembourg", "Europe/Madrid", "Europe/Malta", "Europe/Mariehamn", "Europe/Minsk", "Europe/Monaco", "Europe/Moscow", "Europe/Oslo", "Europe/Paris", "Europe/Podgorica", "Europe/Prague", "Europe/Riga", "Europe/Rome", "Europe/Samara", "Europe/San_Marino", "Europe/Sarajevo", "Europe/Simferopol", "Europe/Skopje", "Europe/Sofia", "Europe/Stockholm", "Europe/Tallinn", "Europe/Tirane", "Europe/Vaduz", "Europe/Vatican", "Europe/Vienna", "Europe/Vilnius", "Europe/Warsaw", "Europe/Zagreb", "Europe/Zurich",

"Indian/Antananarivo", "Indian/Chagos", "Indian/Christmas", "Indian/Cocos", "Indian/Comoro", "Indian/Kerguelen", "Indian/Mahe", "Indian/Maldives", "Indian/Mauritius", "Indian/Mayotte", "Indian/Reunion",

"Pacific/Apia", "Pacific/Auckland", "Pacific/Bougainville", "Pacific/Chatham", "Pacific/Chuuk", "Pacific/Easter", "Pacific/Efate", "Pacific/Fakaofu", "Pacific/Fiji", "Pacific/Funafuti", "Pacific/Galapagos", "Pacific/Gambier", "Pacific/Guadalcanal", "Pacific/Guam", "Pacific/Honolulu", "Pacific/Enderbury", "Pacific/Kiritimati", "Pacific/Kosrae", "Pacific/Majuro", "Pacific/Marquesas", "Pacific/Midway", "Pacific/Nauru", "Pacific/Niue", "Pacific/Norfolk", "Pacific/Noumea", "Pacific/Pago_Pago", "Pacific/Palau", "Pacific/Pitcairn", "Pacific/Port_Moresby", "Pacific/Rarotonga", "Pacific/Saipan", "Pacific/Tahiti", "Pacific/Tarawa", "Pacific/Tongatapu", "Pacific/Wake", "Pacific/Wallis"

3.62 Feature ClockGroup Settings Visible

Default value: true

Usage:

```
get feature clockGroup index settings visible
```

```
set feature clockGroup index settings visible: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

3.63 Feature ClockGroup Settings TimerDays

Default value: 0

Usage:

```
get feature clockGroup index settings timerDays
```

```
set feature clockGroup index settings timerDays: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...10000)

3.64 Feature ClockGroup Settings TimerHours

Default value: 0

Usage:

```
get feature clockGroup index settings timerHours
```

```
set feature clockGroup index settings timerHours: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...23)

3.65 Feature ClockGroup Settings TimerMinutes

Default value: 5

Usage:

```
get feature clockGroup index settings timerMinutes
```

```
set feature clockGroup index settings timerMinutes: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...59)

3.66 Feature ClockGroup Settings TimerSeconds

Default value: 0

Usage:

```
get feature clockGroup index settings timerSeconds
set feature clockGroup index settings timerSeconds: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Number (0...59)

3.67 Feature ClockGroup Settings Swappable

This will include/exclude individual clocks to participate in the swapping of clocks that are shown on the sign. The ClockSwapInterval seconds determines the frequency of swapping. The ClockSwapEnable must be set to true to start the swapping feature.

Default value: false

Usage:

```
get feature clockGroup index settings swappable
set feature clockGroup index settings swappable: value
```

Where

index: Number (0...n-1 where n=number of clock groups)

value: Boolean (true|false)

4 Clock Configuration

The Feature Clock is a list of zero or more clocks. An index must be provided to access the individual clock attributes. The index is zero-based (i.e. index 0 for first clock, index 1 for second clock, index n-1 for nth clock). Clocks can only be added or removed from the settings features web page.

If any Clock attribute value has not yet been set, then the Get command will return a value of "None". In this case the Clock attribute will inherit the ClockGroup value for the corresponding attribute. This allows changing the ClockGroup attribute value to affect all the Clocks at once. For example, setting the ClockGroup Settings SecondsVisible will change all the Clock SecondsVisible values. Once a Clock attribute value has been set directly using Set Feature Clock *Index* <Attribute>: *Value* then that specific attribute will no longer inherit the ClockGroup attribute value.

4.1 Feature Clock Type

Default value: "clock"

Usage:

```
get feature clock index type
set feature clock index type: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (clock|timer|stopwatch)

4.2 Feature Clock DisplayType

Default value: "analog"

Usage:

```
get feature clock index displayType
set feature clock index displayType: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (analog|digital|both)

4.3 Feature Clock AnalogClockFont Color

Default value: #000000

Usage:

```
get feature clock index analogClockFont color
set feature clock index analogClockFont color: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.4 Feature Clock AnalogClockFont Size

Default value: 200

Usage:

```
get feature clock index analogClockFont size
set feature clock index analogClockFont size: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (20...800)

4.5 Feature Clock AnalogClockFont Family

Default value: open-sans

Usage:

```
get feature clock index analogClockFont family
set feature clock index analogClockFont family: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

4.6 Feature Clock AnalogClockFont Style

Default value: normal

Usage:

```
get feature clock index analogClockFont style
set feature clock index analogClockFont style: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|italic)

4.7 Feature Clock AnalogClockFont Weight

Default value: normal

Usage:

```
get feature clock index analogClockFont weight
set feature clock index analogClockFont weight: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|bold)

4.8 Feature Clock AnalogClockFont FontSize

Default value: 40

Usage:

```
get feature clock index analogClockFont fontSize
set feature clock index analogClockFont fontSize: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (10...100)

4.9 Feature Clock AnalogClockFont FontColor

Default value: #000000

Usage:

```
get feature clock index analogClockFont fontColor
set feature clock index analogClockFont fontColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.10 Feature Clock AnalogClockFont BackgroundColor

Default value: #ffffff

Usage:

```
get feature clock index analogClockFont backgroundColor
set feature clock index analogClockFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.11 Feature Clock AnalogClockFont BorderColor

Default value: #000000ff

Usage:

```
get feature clock index analogClockFont borderColor
set feature clock index analogClockFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.12 Feature Clock AnalogClockFont BorderWidth

Default value: 10

Usage:

```
get feature clock index analogClockFont borderWidth
```

```
set feature clock index analogClockFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.13 Feature Clock AnalogClockFont HourHandColor

Default value: #333333

Usage:

```
get feature clock index analogClockFont hourHandColor
set feature clock index analogClockFont hourHandColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.14 Feature Clock AnalogClockFont HourHandBorderColor

Default value: #000000

Usage:

```
get feature clock index analogClockFont hourHandBorderColor
set feature clock index analogClockFont hourHandBorderColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.15 Feature Clock AnalogClockFont MinuteHandColor

Default value: #333333

Usage:

```
get feature clock index analogClockFont minuteHandColor
set feature clock index analogClockFont minuteHandColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.16 Feature Clock AnalogClockFont MinuteHandBorderColor

Default value: #000000

Usage:

```
get feature clock index analogClockFont minuteHandBorderColor
set feature clock index analogClockFont minuteHandBorderColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.17 Feature Clock AnalogClockFont SecondHandColor

Default value: #333333

Usage:

```
get feature clock index analogClockFont secondHandColor
set feature clock index analogClockFont secondHandColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.18 Feature Clock DigitalClockFont Color

Default value: #ffffff

Usage:

```
get feature clock index digitalClockFont color
set feature clock index digitalClockFont color: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.19 Feature Clock DigitalClockFont Size

Default value: 90

Usage:

```
get feature clock index digitalClockFont size
set feature clock index digitalClockFont size: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.20 Feature Clock DigitalClockFont Family

Default value: dseg7-classic

Usage:

```
get feature clock index digitalClockFont family
set feature clock index digitalClockFont family: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

4.21 Feature Clock DigitalClockFont Style

Default value: normal

Usage:

```
get feature clock index digitalClockFont style
set feature clock index digitalClockFont style: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|italic)

4.22 Feature Clock DigitalClockFont Weight

Default value: normal

Usage:

```
get feature clock index digitalClockFont weight
set feature clock index digitalClockFont weight: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|bold)

4.23 Feature Clock DigitalClockFont BackgroundColor

Default value: #ff000000

Usage:

```
get feature clock index digitalClockFont backgroundColor
set feature clock index digitalClockFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.24 Feature Clock DigitalClockFont BorderColor

Default value: #85000000

Usage:

```
get feature clock index digitalClockFont borderColor
set feature clock index digitalClockFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.25 Feature Clock DigitalClockFont BorderWidth

Default value: 0

Usage:

```
get feature clock index digitalClockFont borderWidth
set feature clock index digitalClockFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.26 Feature Clock DigitalClockFont BorderRadius

Default value: 0

Usage:

```
get feature clock index digitalClockFont borderRadius
set feature clock index digitalClockFont borderRadius: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.27 Feature Clock ClockName

Default value: "<clock name>"

Usage:

```
get feature clock index clockName
set feature clock index clockName: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (0...256 characters) If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

4.28 Feature Clock ClockNameFont Color

Default value: #ffffff

Usage:

```
get feature clock index clockNameFont color
set feature clock index clockNameFont color: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.29 Feature Clock ClockNameFont Size

Default value: 25

Usage:

```
get feature clock index clockNameFont size
set feature clock index clockNameFont size: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.30 Feature Clock ClockNameFont Family

Default value: open-sans

Usage:

```
get feature clock index clockNameFont family
set feature clock index clockNameFont family: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

4.31 Feature Clock ClockNameFont Style

Default value: normal

Usage:

```
get feature clock index clockNameFont style
set feature clock index clockNameFont style: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|italic)

4.32 Feature Clock ClockNameFont Weight

Default value: normal

Usage:

```
get feature clock index clockNameFont weight
set feature clock index clockNameFont weight: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|bold)

4.33 Feature Clock ClockNameFont BackgroundColor

Default value: #a07f0000

Usage:

```
get feature clock index clockNameFont backgroundColor
```

```
set feature clock index clockNameFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.34 Feature Clock ClockNameFont BorderColor

Default value: #ff7f0000

Usage:

```
get feature clock index clockNameFont borderColor
```

```
set feature clock index clockNameFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.35 Feature Clock ClockNameFont BorderWidth

Default value: 0

Usage:

```
get feature clock index clockNameFont borderWidth
```

```
set feature clock index clockNameFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.36 Feature Clock ClockNameFont BorderRadius

Default value: 0

Usage:

```
get feature clock index clockNameFont borderRadius
```

```
set feature clock index clockNameFont borderRadius: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.37 Feature Clock DateFont Color

Default value: #ffdd00

Usage:

```
get feature clock index dateFont color
set feature clock index dateFont color: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 6-digit hexadecimal RGB value (#RRGGBB)

4.38 Feature Clock DateFont Size

Default value: 25

Usage:

```
get feature clock index dateFont size
set feature clock index dateFont size: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.39 Feature Clock DateFont Family

Default value: open-sans

Usage:

```
get feature clock index dateFont family
set feature clock index dateFont family: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

4.40 Feature Clock DateFont Style

Default value: normal

Usage:

```
get feature clock index dateFont style
```

```
set feature clock index dateFont style: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|italic)

4.41 Feature Clock DateFont Weight

Default value: normal

Usage:

```
get feature clock index dateFont weight
```

```
set feature clock index dateFont weight: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (normal|bold)

4.42 Feature Clock DateFont BackgroundColor

Default value: #a07f0000

Usage:

```
get feature clock index dateFont backgroundColor
```

```
set feature clock index dateFont backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.43 Feature Clock DateFont BorderColor

Default value: #ff7f0000

Usage:

```
get feature clock index dateFont borderColor
```

```
set feature clock index dateFont borderColor: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

4.44 Feature Clock DateFont BorderWidth

Default value: 0

Usage:

```
get feature clock index dateFont borderWidth
set feature clock index dateFont borderWidth: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.45 Feature Clock DateFont BorderRadius

Default value: 0

Usage:

```
get feature clock index dateFont borderRadius
set feature clock index dateFont borderRadius: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...1000000)

4.46 Feature Clock DateVisible

Default value: true

Usage:

```
get feature clock index dateVisible
set feature clock index dateVisible: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Boolean (true|false)

4.47 Feature Clock Format24hr

Default value: true

Usage:

```
get feature clock index format24hr
set feature clock index format24hr: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Boolean (true|false)

4.48 Feature Clock NameVisible

Default value: true

Usage:

```
get feature clock index nameVisible
set feature clock index nameVisible: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Boolean (true|false)

4.49 Feature Clock SecondsVisible

Default value: false

Usage:

```
get feature clock index secondsVisible
set feature clock index secondsVisible: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Boolean (true|false)

4.50 Feature Clock TimeZone

Default value: "America/New_York"

Usage:

```
get feature clock index timeZone
set feature clock index timeZone: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: a time zone name. Names are not case-sensitive. The list below is a selection: the device also accepts the other names in its time zone database, including aliases such as US/Eastern and Canada/Pacific.

"Africa/Abidjan", "Africa/Accra", "Africa/Addis_Ababa", "Africa/Algiers", "Africa/Asmara",
 "Africa/Bamako", "Africa/Bangui", "Africa/Banjul", "Africa/Bissau", "Africa/Blantyre",
 "Africa/Brazzaville", "Africa/Bujumbura", "Africa/Cairo", "Africa/Casablanca", "Africa/Conakry",
 "Africa/Dakar", "Africa/Dar_es_Salaam", "Africa/Djibouti", "Africa/Douala", "Africa/El_Aaiun",
 "Africa/Freetown", "Africa/Gaborone", "Africa/Harare", "Africa/Johannesburg", "Africa/Juba",
 "Africa/Kampala", "Africa/Khartoum", "Africa/Kigali", "Africa/Kinshasa", "Africa/Lagos",
 "Africa/Libreville", "Africa/Lome", "Africa/Luanda", "Africa/Lubumbashi", "Africa/Lusaka",
 "Africa/Malabo", "Africa/Maputo", "Africa/Maseru", "Africa/Mbabane", "Africa/Mogadishu",
 "Africa/Monrovia", "Africa/Nairobi", "Africa/Ndjamena", "Africa/Niamey", "Africa/Nouakchott",
 "Africa/Ouagadougou", "Africa/Porto-Novo", "Africa/Sao_Tome", "Africa/Tripoli", "Africa/Tunis",
 "Africa/Windhoek",

"America/Adak", "America/Anchorage", "America/Anguilla", "America/Antigua",
 "America/Argentina/Buenos_Aires", "America/Aruba", "America/Asuncion", "America/Atikokan",
 "America/Barbados", "America/Belize", "America/Blanc-Sablon", "America/Bogota", "America/Cancun",
 "America/Caracas", "America/Cayenne", "America/Cayman", "America/Chicago", "America/Costa_Rica",
 "America/Curacao", "America/Danmarkshavn", "America/Denver", "America/Dominica",
 "America/Edmonton", "America/El_Salvador", "America/Grand_Turk", "America/Grenada",
 "America/Guadeloupe", "America/Guatemala", "America/Guayaquil", "America/Guyana",
 "America/Halifax", "America/Havana", "America/Hermosillo", "America/Jamaica", "America/Kralendijk",
 "America/La_Paz", "America/Lima", "America/Los_Angeles", "America/Lower_Princes",
 "America/Managua", "America/Manaus", "America/Marigot", "America/Martinique",
 "America/Matamoros", "America/Mexico_City", "America/Miquelon", "America/Montevideo",
 "America/Montserrat", "America/Nassau", "America/New_York", "America/Noronha",
 "America/Godthab", "America/Panama", "America/Paramaribo", "America/Phoenix",
 "America/Port_of_Spain", "America/Port-au-Prince", "America/Puerto_Rico", "America/Punta_Arenas",
 "America/Regina", "America/Rio_Branco", "America/Santiago", "America/Santo_Domingo",
 "America/Sao_Paulo", "America/Scoresbysund", "America/St_Barthelemy", "America/St_Johns",
 "America/St_Kitts", "America/St_Lucia", "America/St_Thomas", "America/St_Vincent",
 "America/Tegucigalpa", "America/Thule", "America/Tijuana", "America/Toronto", "America/Tortola",
 "America/Vancouver", "America/Whitehorse", "America/Winnipeg",

"Antarctica/Casey", "Antarctica/Davis", "Antarctica/DumontDUrville", "Antarctica/Mawson",
 "Antarctica/McMurdo", "Antarctica/Palmer", "Antarctica/Syowa", "Antarctica/Troll",
 "Antarctica/Vostok",

"Arctic/Longyearbyen",

"Asia/Aden", "Asia/Almaty", "Asia/Amman", "Asia/Aqtobe", "Asia/Ashgabat", "Asia/Baghdad",
 "Asia/Bahrain", "Asia/Baku", "Asia/Bangkok", "Asia/Beirut", "Asia/Bishkek", "Asia/Brunei", "Asia/Chita",
 "Asia/Colombo", "Asia/Damascus", "Asia/Dhaka", "Asia/Dili", "Asia/Dubai", "Asia/Dushanbe",
 "Asia/Hebron", "Asia/Ho_Chi_Minh", "Asia/Hong_Kong", "Asia/Hovd", "Asia/Irkutsk", "Asia/Jakarta",
 "Asia/Jayapura", "Asia/Jerusalem", "Asia/Kabul", "Asia/Kamchatka", "Asia/Karachi", "Asia/Kathmandu",
 "Asia/Kolkata", "Asia/Kuala_Lumpur", "Asia/Kuwait", "Asia/Macau", "Asia/Makassar", "Asia/Manila",
 "Asia/Muscat", "Asia/Nicosia", "Asia/Novosibirsk", "Asia/Omsk", "Asia/Phnom_Penh",
 "Asia/Pyongyang", "Asia/Qatar", "Asia/Riyadh", "Asia/Sakhalin", "Asia/Seoul", "Asia/Shanghai",
 "Asia/Singapore", "Asia/Taipei", "Asia/Tashkent", "Asia/Tbilisi", "Asia/Tehran", "Asia/Thimphu",

"Asia/Tokyo", "Asia/Ulaanbaatar", "Asia/Urumqi", "Asia/Vientiane", "Asia/Vladivostok", "Asia/Yangon", "Asia/Yekaterinburg", "Asia/Yerevan",

"Atlantic/Azores", "Atlantic/Bermuda", "Atlantic/Canary", "Atlantic/Cape_Verde", "Atlantic/Faroe", "Atlantic/Reykjavik", "Atlantic/South_Georgia", "Atlantic/St_Helena", "Atlantic/Stanley", "Australia/Adelaide", "Australia/Brisbane", "Australia/Darwin", "Australia/Eucla", "Australia/Lord_Howe", "Australia/Perth", "Australia/Sydney",

"Etc/UTC",

"Europe/Amsterdam", "Europe/Andorra", "Europe/Athens", "Europe/Belgrade", "Europe/Berlin", "Europe/Bratislava", "Europe/Brussels", "Europe/Bucharest", "Europe/Budapest", "Europe/Chisinau", "Europe/Copenhagen", "Europe/Dublin", "Europe/Gibraltar", "Europe/Guernsey", "Europe/Helsinki", "Europe/Isle_of_Man", "Europe/Istanbul", "Europe/Jersey", "Europe/Kaliningrad", "Europe/Kiev", "Europe/Lisbon", "Europe/Ljubljana", "Europe/London", "Europe/Luxembourg", "Europe/Madrid", "Europe/Malta", "Europe/Mariehamn", "Europe/Minsk", "Europe/Monaco", "Europe/Moscow", "Europe/Oslo", "Europe/Paris", "Europe/Podgorica", "Europe/Prague", "Europe/Riga", "Europe/Rome", "Europe/Samara", "Europe/San_Marino", "Europe/Sarajevo", "Europe/Simferopol", "Europe/Skopje", "Europe/Sofia", "Europe/Stockholm", "Europe/Tallinn", "Europe/Tirane", "Europe/Vaduz", "Europe/Vatican", "Europe/Vienna", "Europe/Vilnius", "Europe/Warsaw", "Europe/Zagreb", "Europe/Zurich",

"Indian/Antananarivo", "Indian/Chagos", "Indian/Christmas", "Indian/Cocos", "Indian/Comoro", "Indian/Kerguelen", "Indian/Mahe", "Indian/Maldives", "Indian/Mauritius", "Indian/Mayotte", "Indian/Reunion",

"Pacific/Apia", "Pacific/Auckland", "Pacific/Bougainville", "Pacific/Chatham", "Pacific/Chuuk", "Pacific/Easter", "Pacific/Efate", "Pacific/Fakaofu", "Pacific/Fiji", "Pacific/Funafuti", "Pacific/Galapagos", "Pacific/Gambier", "Pacific/Guadalcanal", "Pacific/Guam", "Pacific/Honolulu", "Pacific/Enderbury", "Pacific/Kiritimati", "Pacific/Kosrae", "Pacific/Majuro", "Pacific/Marquesas", "Pacific/Midway", "Pacific/Nauru", "Pacific/Niue", "Pacific/Norfolk", "Pacific/Noumea", "Pacific/Pago_Pago", "Pacific/Palau", "Pacific/Pitcairn", "Pacific/Port_Moresby", "Pacific/Rarotonga", "Pacific/Saipan", "Pacific/Tahiti", "Pacific/Tarawa", "Pacific/Tongatapu", "Pacific/Wake", "Pacific/Wallis"

4.51 Feature Clock Visible

Default value: true

Usage:

```
get feature clock index visible
set feature clock index visible: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Boolean (true|false)

4.52 Feature Clock ClockGroupId

Default value: 0

Usage:

```
get feature clock index clockGroupId
set feature clock index clockGroupId: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...n-1 where n=number of clock groups)

4.53 Feature Clock TimerDays

Default value: 0

Usage:

```
get feature clock index timerDays
set feature clock index timerDays: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...10000)

4.54 Feature Clock TimerHours

Default value: 0

Usage:

```
get feature clock index timerHours
set feature clock index timerHours: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...23)

4.55 Feature Clock TimerMinutes

Default value: 5

Usage:

```
get feature clock index timerMinutes
set feature clock index timerMinutes: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...59)

4.56 Feature Clock TimerSeconds

Default value: 0

Usage:

```
get feature clock index timerSeconds
set feature clock index timerSeconds: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (0...59)

4.57 Feature Clock TimerMode

Read only. The state of a timer or stopwatch clock. Change it with Setup Clock Timer.

Default value: reset

Usage:

```
get feature clock index timerMode
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (reset|run|pause)

4.58 Feature Clock TimerRun

Read only. While a timer runs, the UTC date and time at which it reaches zero; while a stopwatch runs, the UTC date and time from which it counts. Empty while the clock is paused or reset.

Default value: ""

Usage:

```
get feature clock index timerRun
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String, an ISO 8601 date and time (e.g. 2026-10-23T14:30:00.000000), or empty

4.59 Feature Clock TimerPause

Read only. While a timer is paused, the seconds it had left; while a stopwatch is paused, the seconds it had counted. 0 while the clock runs or is reset.

Default value: 0

Usage:

```
get feature clock index timerPause
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Number (whole seconds)

4.60 Feature Clock Swappable

This will include/exclude individual clocks to participate in the swapping of clocks that are shown on the sign. The ClockSwapInterval seconds determines the frequency of swapping. The ClockSwapEnable must be set to true to start the swapping feature.

Default value: false

Usage:

```
get feature clock index swappable
set feature clock index swappable: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: Boolean (true|false)

4.61 Feature ClockSwapEnable

NOTE: There is no space between Clock and SwapEnable. This is a global setting for all clocks in this feature set. The Swap Enable must be set to true to start the swapping feature.

Default value: false

Usage:

```
get feature clockSwapEnable
set feature clockSwapEnable: value
```

Where

value: Boolean (true|false)

4.62 Feature ClockSwapInterval

NOTE: There is no space between Clock and SwapInterval. This is a global setting for all clocks in this feature set. This sets the frequency in seconds that visible clocks will swap with hidden clocks. The ClockSwapEnable must be set to true to start the swapping feature. Only individual clocks with Swappable set to true will participate in swapping between visible and hidden status.

Default value: 20

Usage:

```
get feature clockSwapInterval
set feature clockSwapInterval: value
```

Where

value: Number (10...999)

5 IconGroup Configuration

The Feature Icon Group is currently a list of a single icon group. An index of zero must be provided to access the icon group attributes.

The Feature Icon Group Settings contains the values for a single icon that will be inherited by any icon within this group that has not had its individual settings already set.

The single Settings Icon has three states. A state index must be provided to access state dependent attributes. The state index is zero-based.

If any Icon attribute value has not yet been set, then the Get command will return a value of "None". In this case the Icon attribute will inherit the IconGroup value for the corresponding attribute. This allows changing the IconGroup attribute value to affect all the Icons at once. For example, setting the IconGroup Settings Color will change all the Icon Color values. Once an Icon attribute value has been set directly using Set Feature Icon *Index* <Attribute> *StateIndex*: *Value* then that specific attribute will no longer inherit the IconGroup attribute value.

5.1 Feature IconGroup Settings Name

Default value: "Audio Call (Style 1)"

Usage:

```
get feature iconGroup index settings name stateIndex
set feature iconGroup index settings name stateIndex: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: String (No Icon|Audio Call (Style 1)|Audio Call (Style 2)|DEFCON 1|DEFCON 2|DEFCON 3|DEFCON 4|DEFCON 5|FPCON Alpha|FPCON Bravo|FPCON Charlie|FPCON Delta|FPCON Normal|Media Pause|Media Play|Media Record|Media Stop|Microphone (Style 1)|Microphone (Style 2)|Personal Electronic Device (Style 1)|Personal Electronic Device (Style 2)|Content Sharing (Style 1)|Content Sharing (Style 2)|Speaker (Style 1)|Speaker (Style 2)|Video Call (Style 1)|Video Call (Style 2)|Warning)

5.2 Feature IconGroup Settings Animation Speed

Default value: 1

Usage:

```
get feature iconGroup index settings animation stateIndex speed
set feature iconGroup index settings animation stateIndex speed: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: Number (0...10)

5.3 Feature IconGroup Settings Animation Type

Default value: "static"

Usage:

```
get feature iconGroup index settings animation stateIndex type
set feature iconGroup index settings animation stateIndex type: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: String (static|blink)

5.4 Feature IconGroup Settings Color

Default value: #9e9e9e

Usage:

```
get feature iconGroup index settings color stateIndex
set feature iconGroup index settings color stateIndex: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: 6-digit hexadecimal RGB value (#RRGGBB)

5.5 Feature IconGroup Settings Font Color

Default value: #9e9e9e

Usage:

```
get feature iconGroup index settings font stateIndex color
set feature iconGroup index settings font stateIndex color: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: 6-digit hexadecimal RGB value (#RRGGBB)

5.6 Feature IconGroup Settings Font Size

Default value: 25

Usage:

```
get feature iconGroup index settings font stateIndex size
set feature iconGroup index settings font stateIndex size: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: Number (0...1000000)

5.7 Feature IconGroup Settings Font Family

Default value: open-sans

Usage:

```
get feature iconGroup index settings font stateIndex family
set feature iconGroup index settings font stateIndex family: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

5.8 Feature IconGroup Settings Font Style

Default value: normal

Usage:

```
get feature iconGroup index settings font stateIndex style
set feature iconGroup index settings font stateIndex style: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: String (normal|italic)

5.9 Feature IconGroup Settings Font Weight

Default value: normal

Usage:

```
get feature iconGroup index settings font stateIndex weight
set feature iconGroup index settings font stateIndex weight: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: String (normal|bold)

5.10 Feature IconGroup Settings Font BackgroundColor

Default value: #9e9e9e00

Usage:

```
get feature iconGroup index settings font stateIndex backgroundColor
set feature iconGroup index settings font stateIndex backgroundColor:
value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

5.11 Feature IconGroup Settings Font BorderColor

Default value: #9e9e9e00

Usage:

```
get feature iconGroup index settings font stateIndex borderColor
set feature iconGroup index settings font stateIndex borderColor:
value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

5.12 Feature IconGroup Settings Font BorderWidth

Default value: 0

Usage:

```
get feature iconGroup index settings font stateIndex borderWidth
set feature iconGroup index settings font stateIndex borderWidth:
value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: Number (0...1000000)

5.13 Feature IconGroup Settings Font BorderRadius

Default value: 0

Usage:

```
get feature iconGroup index settings font stateIndex borderRadius
set feature iconGroup index settings font stateIndex borderRadius:
value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: Number (0...1000000)

5.14 Feature IconGroup Settings Region

Default value: 0

Usage:

```
get feature iconGroup index settings region
set feature iconGroup index settings region: value
```

Where

index: Number (0)

value: Number (0...1)

5.15 Feature IconGroup Settings Size

Default value: 70

Usage:

```
get feature iconGroup index settings size stateIndex
set feature iconGroup index settings size stateIndex: value
```

Where

index: Number (0)

stateIndex: Number (0...2)

value: Number (0...1000000)

5.16 Feature IconGroup Settings Visible

Default value: true

Usage:

```
get feature iconGroup index settings visible
set feature iconGroup index settings visible: value
```

Where

index: Number (0)

value: Boolean (true|false)

6 Icon Configuration

The Feature Icon is a list of zero or more icons. An index must be provided to access the individual icon attributes. The index is zero-based (i.e. index 0 for first icon, index 1 for second icon, index n-1 for nth icon). Icons can only be added or removed from the settings features web page.

Each Icon has three states. A state index must be provided to access state dependent attributes. The state index is also zero-based.

If any Icon attribute value has not yet been set, then the Get command will return a value of “None”. In this case the Icon attribute will inherit the IconGroup value for the corresponding attribute. This allows changing the IconGroup attribute value to affect all the Icons at once. For example, setting the IconGroup Settings Color will change all the Icon Color values. Once an Icon attribute value has been set directly using Set Feature Icon *Index* <Attribute> *StateIndex*: *Value* then that specific attribute will no longer inherit the IconGroup attribute value.

6.1 Feature Icon Name

Default value: “Audio Call (Style 1)”

Usage:

```
get feature icon index name stateIndex
set feature icon index name stateIndex: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: String (No Icon|Audio Call (Style 1)|Audio Call (Style 2)|DEFCON 1|DEFCON 2|DEFCON 3|DEFCON 4|DEFCON 5|FPCON Alpha|FPCON Bravo|FPCON Charlie|FPCON Delta|FPCON Normal|Media Pause|Media Play|Media Record|Media Stop|Microphone (Style 1)|Microphone (Style 2)|Personal Electronic Device (Style 1)|Personal Electronic Device (Style 2)|Content Sharing (Style 1)|Content Sharing (Style 2)|Speaker (Style 1)|Speaker (Style 2)|Video Call (Style 1)|Video Call (Style 2)|Warning)

6.2 Feature Icon Animation Speed

Default value: 1

Usage:

```
get feature icon index animation stateIndex speed
set feature icon index animation stateIndex speed: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: Number (0...10)

6.3 Feature Icon Animation Type

Default value: "static"

Usage:

get feature icon *index* animation *stateIndex* type

set feature icon *index* animation *stateIndex* type: *value*

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: String (static|blink)

6.4 Feature Icon Color

Default value: #9e9e9e

Usage:

get feature icon *index* color *stateIndex*

set feature icon *index* color *stateIndex*: *value*

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: 6-digit hexadecimal RGB value (#RRGGBB)

6.5 Feature Icon Font Color

Default value: #9e9e9e

Usage:

get feature icon *index* font *stateIndex* color

set feature icon *index* font *stateIndex* color: *value*

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: 6-digit hexadecimal RGB value (#RRGGBB)

6.6 Feature Icon Font Size

Default value: 25

Usage:

```
get feature icon index font stateIndex size
set feature icon index font stateIndex size: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: Number (0...1000000)

6.7 Feature Icon Font Family

Default value: open-sans

Usage:

```
get feature icon index font stateIndex family
set feature icon index font stateIndex family: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

6.8 Feature Icon Font Style

Default value: normal

Usage:

```
get feature icon index font stateIndex style
set feature icon index font stateIndex style: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: String (normal|italic)

6.9 Feature Icon Font Weight

Default value: normal

Usage:

```
get feature icon index font stateIndex weight
set feature icon index font stateIndex weight: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: String (normal|bold)

6.10 Feature Icon Font BackgroundColor

Default value: #9e9e9e00

Usage:

```
get feature icon index font stateIndex backgroundColor
set feature icon index font stateIndex backgroundColor: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

6.11 Feature Icon Font BorderColor

Default value: #9e9e9e00

Usage:

```
get feature icon index font stateIndex borderColor
set feature icon index font stateIndex borderColor: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

6.12 Feature Icon Font BorderWidth

Default value: 0

Usage:

```
get feature icon index font stateIndex borderWidth
set feature icon index font stateIndex borderWidth: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: Number (0...1000000)

6.13 Feature Icon Font BorderRadius

Default value: 0

Usage:

```
get feature icon index font stateIndex borderRadius
set feature icon index font stateIndex borderRadius: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: Number (0...1000000)

6.14 Feature Icon Region

Default value: 0

Usage:

```
get feature icon index region
set feature icon index region: value
```

Where

index: Number (0...n-1 where n=number of icons)

value: Number (0...1)

6.15 Feature Icon Size

Default value: 70

Usage:

```
get feature icon index size stateIndex
set feature icon index size stateIndex: value
```

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: Number (0...1000000)

6.16 Feature Icon State

Default value: 0

Usage:

get feature icon *index* state

set feature icon *index* state: *value*

Where

index: Number (0...n-1 where n=number of icons)

value: Number (0...2)

6.17 Feature Icon Text

Default value: "ATC"

Usage:

get feature icon *index* text *stateIndex*

set feature icon *index* text *stateIndex*: *value*

Where

index: Number (0...n-1 where n=number of icons)

stateIndex: Number (0...2)

value: String (0...10 characters) If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

6.18 Feature Icon Visible

Default value: true

Usage:

get feature icon *index* visible

set feature icon *index* visible: *value*

Where

index: Number (0...n-1 where n=number of icons)

value: Boolean (true|false)

7 Layout Configuration

7.1 Feature Layout Id

Default value: 0

Usage:

```
get feature layout id
set feature layout id: id
```

Where

id: Number (0...4)

8 Logo Configuration

The Feature Logo provides access to the two logo image slots. Custom logo image files are uploaded using the Mercury web Configuration tool. These API commands allow selecting from previously uploaded files and assigning to one of the two logo slots.

8.1 Feature Logo Filename

Default value: ""

Usage:

```
get feature logo index filename
set feature logo index filename: filename
```

Where

index: Number (0...1)

filename: String (0...256 characters) If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

8.2 Feature Logo Visible

Default value: false

Usage:

```
get feature logo index visible
set feature logo index visible: visible
```

Where

index: Number (0...1)

visible: Boolean (true|false)

8.3 Feature Logo Height

Default value: 200

Usage:

```
get feature logo index height
set feature logo index height: value
```

Where

index: Number (0...1)

value: Number (0...9999)

8.4 Feature Logo Width

Default value: 200

Usage:

```
get feature logo index width
set feature logo index width: value
```

Where

index: Number (0...1)

value: Number (0...9999)

9 Message Configuration

The Feature Message is a list of three messages. An index must be provided to access the individual message attributes. The index is zero-based (i.e. index 0 for first message, index 1 for second message, etc.).

9.1 Feature Message Animation Speed

Default value: 0

Usage:

```
get feature message index animation speed
set feature message index animation speed: value
```

Where

index: Number (0...2)

value: Number (0...10)

9.2 Feature Message Animation Type

Default value: "static"

Usage:

```
get feature message index animation type
set feature message index animation type: value
```

Where

index: Number (0...2)

value: String (static|blink)

9.3 Feature Message Font Color

Default value: #ffffff

Usage:

```
get feature message index font color
set feature message index font color: value
```

Where

index: Number (0...2)

value: 6-digit hexadecimal RGB value (#RRGGBB)

9.4 Feature Message Font Size

Default value: 60

Usage:

```
get feature message index font size
set feature message index font size: value
```

Where

index: Number (0...2)

value: Number (0...1000000)

9.5 Feature Message Font Family

Default value: open-sans

Usage:

```
get feature message index font family
set feature message index font family: value
```

Where

index: Number (0...2)

value: String (eb-garamond|consolas|verdana|times-new-roman|dancing-script|open-sans|courier-prime|roboto|comic-neue|dseg7-classic|dseg7-classic-mini|dseg7-modern|dseg7-modern-mini|dseg14-classic|dseg14-classic-mini|dseg14-modern|dseg14-modern-mini)

9.6 Feature Message Font Style

Default value: normal

Usage:

```
get feature message index font style
set feature message index font style: value
```

Where

index: Number (0...2)

value: String (normal|italic)

9.7 Feature Message Font Weight

Default value: normal

Usage:

```
get feature message index font weight
set feature message index font weight: value
```

Where

index: Number (0...2)

value: String (normal|bold)

9.8 Feature Message Font BackgroundColor

Default value: #73737300

Usage:

```
get feature message index font backgroundColor
set feature message index font backgroundColor: value
```

Where

index: Number (0...2)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

9.9 Feature Message Font BorderColor

Default value: #bababa00

Usage:

```
get feature message index font borderColor
set feature message index font borderColor: value
```

Where

index: Number (0...2)

value: 8-digit hexadecimal RGBA value (#RRGGBBAA)

9.10 Feature Message Font BorderWidth

Default value: 0

Usage:

```
get feature message index font borderWidth
set feature message index font borderWidth: value
```

Where

index: Number (0...2)

value: Number (0...1000000)

9.11 Feature Message Font BorderRadius

Default value: 0

Usage:

```
get feature message index font borderRadius
set feature message index font borderRadius: value
```

Where

index: Number (0...2)

value: Number (0...1000000)

9.12 Feature Message Text

Default value: ""

Usage:

```
get feature message index text
set feature message index text: value
```

Where

index: Number (0...2)

value: String (0...256 characters) If string contains spaces, then surround entire string with double quotes (e.g. "sample text string").

9.13 Feature Message Visible

Default value: false

Usage:

```
get feature message index visible
```

```
set feature message index visible: value
```

Where

index: Number (0...2)

value: Boolean (true|false)

10 Date Time Configuration

10.1 Setup DateTime Time

The time format must be complete date and time as shown below with no milliseconds. The time must be in UTC.

Default value: not set, requires initial setup.

Usage:

```
get setup datetime time  
set setup datetime time: value
```

Where

value: UTC Datetime (MM/DD/YYYY HH:MM:SS)

Surround the value with straight double quotes, because it contains a space and colons, for example `set setup datetime time: "10/23/2026 14:30:00"`. A date in any other format, or with a year outside 2000 to 2037, replies `Failed`. A `get` returns the time in the same format, in double quotes.

10.2 Setup DateTime NTP

Not available. The v1.6 socket API neither reads nor sets the NTP server, and both commands reply `Invalid path`. Set the NTP server in the Mercury web configuration tool.

11 Display Configuration

The Setup Display is a list of one or more video ports. The port index selects the video output port for configuration (e.g. hdmi-1, hdmi-2, dp-1, dp-2, etc.) The Mercury device should be connected to only one display for best sign layout.

11.1 Setup Display Videoparam

Default value: auto (the mode the display prefers)

Usage:

```
get setup display port-x videoparam
set setup display port-x videoparam: value
```

Where

port-x: String where *port* is (hdmi|dp) and *x* is (1|2|3|...)

value: String (e.g., 4096x2160@25.00, 1920x1080@60.00, etc.) select video parameter from list of supported resolutions in attached Mercury display.

auto selects the mode the display prefers. A *get* returns the current mode as *resolution@refresh*, or an empty value when nothing is connected to the port. Port names are not case-sensitive, and *get setup display* lists every port by name.

11.2 Setup Display Videomute

Default value: false

Usage:

```
get setup display port-x videomute
set setup display port-x videomute: value
```

Where

port-x: String where *port* is (hdmi|dp) and *x* is (1|2|3|...)

value: Boolean (true|false)

11.3 Setup Display Connected

Used to determine if a video display is currently connected to the specified port index.

Default value: false

Usage:

```
get setup display port-x connected
```

Where

port-x: String where *port* is (hdmi|dp) and *x* is (1|2|3|...)

12 RunPreset Configuration

The Setup RunPreset specifies which configuration preset to use. This allows quickly switching between stored presets in order to alter the Mercury sign based on the current situation.

12.1 Setup RunPreset

Default value: "Factory Default"

Usage:

```
get setup runpreset
set setup runpreset: value
```

Where

value: String, the name of an existing preset, spelled exactly as it is saved (names are case-sensitive). If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

An unknown name replies Failed.

13 Clock Timer/Stopwatch Control

The Setup Clock TimerMode controls the starting, stopping, and resetting of a previously configured clock timer or stopwatch. The clock's type must be timer or stopwatch: for any other type, or for an index with no clock, the command replies Invalid path. Setting run while the clock is already running, or pause while it is paused or reset, replies Invalid value; reset always succeeds. The values are lowercase.

13.1 Setup Clock Timer

Default value: "reset"

Usage:

```
set setup clock index timerMode: value
```

Where

index: Number (0...n-1 where n=number of clocks)

value: String (reset|run|pause)

get feature clock index timerMode returns the current mode; see Feature Clock TimerMode.

14 Appendix

14.1 Breaking Changes in Version 1.1.0

14.1.1 *Removed Commands*

14.1.1.1 *Feature Clock FillColor*

This command is no longer supported and is replaced by the following commands:

- Feature Clock AnalogClockFont Color
- Feature Clock DigitalClockFont Color

14.1.1.2 *Feature Clock Font Color*

This command is no longer supported and is replaced by the following commands:

- Feature Clock ClockNameFont Color
- Feature Clock DateFont Color

14.1.1.3 *Feature Clock Text*

This command is no longer supported and is replaced by the following commands:

- Feature Clock ClockName