

MERCURY

Application Programming Interface v1.5.0 (July 2023)



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1 Application Programming Interface

1.1 Connection Method

The Mercury API utilizes a secure TCP Socket connection via TLS v1.2.

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.

Login Success Response:

```
Welcome to Mercury!
```

Login Failure Response:

```
Login incorrect
```

1.2 Response Types

The device API returns either SUCCESS responses or ERROR responses.

SUCCESS:

- OK
- *returnValue* CR\LF OK

ERROR:

- Invalid command
- Invalid value: *valueString*
- Invalid path: *pathString*

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...255)

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.

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 (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 clocks 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 clocks groups)

value: Number (0...255)

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 clocks 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 clocks 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 clocks 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 clocks 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 clocks 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 clocks groups)

value: Number (0...255)

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 clocks groups)

value: Number (0...255)

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.

4.1 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)

4.2 Feature Clock AnalogClockFont Color

Default value: #ffffff

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)

4.3 Feature Clock AnalogClockFont Size

Default value: 215

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 (10...600)

4.4 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)

4.5 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...400)

4.6 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)

4.7 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)

4.8 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)

4.9 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)

4.10 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)

4.11 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...255)

4.12 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...255)

4.13 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 (256 characters) If string contains spaces then surround entire string with double quotes (e.g. "sample text string").

4.14 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)

4.15 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...255)

4.16 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)

4.17 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)

4.18 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)

4.19 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)

4.20 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)

4.21 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...255)

4.22 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...255)

4.23 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)

4.24 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...255)

4.25 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)

4.26 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)

4.27 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)

4.28 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)

4.29 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)

4.30 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...255)

4.31 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...255)

4.32 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)

4.33 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)

4.34 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)

4.35 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)

4.36 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: select a time zone from list

Africa/Abidjan, Africa/Accra, Africa/Addis_Ababa, Africa/Algiers, Africa/Asmara, Africa/ Asmera,
 Africa/Bamako, Africa/Bangui, Africa/Banjul, Africa/Bissau, Africa/Blantyre, Africa/ Brazzaville,
 Africa/Bujumbura, Africa/Cairo, Africa/Casablanca, Africa/Ceuta, 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/Timbuktu, Africa/Tripoli, Africa/Tunis,
 Africa/Windhoek, America/ Adak, America/Anchorage, America/Anguilla, America/Antigua,
 America/Araguaina, America/ Argentina/Buenos_Aires, America/Argentina/Catamarca,
 America/Argentina/ ComodRivadavia, America/Argentina/Cordoba, America/Argentina/Jujuy,
 America/Argentina/ La_Rioja, America/Argentina/Mendoza, America/Argentina/Rio_Gallegos, America/
 Argentina/Salta, America/Argentina/San_Juan, America/Argentina/San_Luis, America/
 Argentina/Tucuman, America/Argentina/Ushuaia, America/Aruba, America/Asuncion, America/Atikokan,
 America/Atka, America/Bahia, America/Bahia_Banderas, America/ Barbados, America/Belem,
 America/Belize, America/Blanc-Sablon, America/Boa_Vista, America/Bogota, America/Boise,
 America/Buenos_Aires, America/Cambridge_Bay, America/Campo_Grande, America/Cancun,
 America/Caracas, America/Catamarca, America/Cayenne, America/Cayman, America/Chicago,
 America/Chihuahua, America/ Coral_Harbour, America/Cordoba, America/Costa_Rica, America/Creston,
 America/Cuiaba, America/Curacao, America/Danmarkshavn, America/Dawson, America/Dawson_Creek,
 America/Denver, America/Detroit, America/Dominica, America/Edmonton, America/Eirunepe,
 America/El_Salvador, America/Ensenada, America/Fort_Wayne, America/Fortaleza, America/Glace_Bay,
 America/Godthab, America/Goose_Bay, America/Grand_Turk, America/ Grenada, America/Guadeloupe,
 America/Guatemala, America/Guayaquil, America/Guyana, America/Halifax, America/Havana,
 America/Hermosillo, America/Indiana/Indianapolis, America/Indiana/Knox, America/Indiana/Marengo,

America/Indiana/Petersburg, America/ Indiana/Tell_City, America/Indiana/Vevay,
 America/Indiana/Vincennes, America/Indiana/ Winamac, America/Indianapolis, America/Inuvik,
 America/Iqaluit, America/Jamaica, America/ Jujuy, America/Juneau, America/Kentucky/Louisville,
 America/Kentucky/Monticello, America/ Knox_IN, America/Kralendijk, America/La_Paz, America/Lima,
 America/Los_Angeles, America/Louisville, America/Lower_Princes, America/Maceio, America/Managua,
 America/ Manaus, America/Marigot, America/Martinique, America/Matamoros, America/Mazatlan,
 America/Mendoza, America/Menominee, America/Merida, America/Metlakatla, America/ Mexico_City,
 America/Miquelon, America/Moncton, America/Monterrey, America/ Montevideo, America/Montreal,
 America/Montserrat, America/Nassau, America/New_York, America/Nipigon, America/Nome,
 America/Noronha, America/North_Dakota/Beulah, America/North_Dakota/Center,
 America/North_Dakota/New_Salem, America/Ojinaga, America/Panama, America/Pangnirtung,
 America/Paramaribo, America/Phoenix, America/ Port-au-Prince, America/Port_of_Spain,
 America/Porto_Acre, America/Porto_Velho, America/Puerto_Rico, America/Rainy_River,
 America/Rankin_Inlet, America/Recife, America/ Regina, America/Resolute, America/Rio_Branco,
 America/Rosario, America/Santa_Isabel, America/Santarem, America/Santiago, America/Santo_Domingo,
 America/Sao_Paulo, America/Scoresbysund, America/Shiprock, America/Sitka, America/St_Barthelemy,
 America/St_Johns, America/St_Kitts, America/St_Lucia, America/St_Thomas, America/ St_Vincent,
 America/Swift_Current, America/Tegucigalpa, America/Thule, America/ Thunder_Bay, America/Tijuana,
 America/Toronto, America/Tortola, America/Vancouver, America/Virgin, America/Whitehorse,
 America/Winnipeg, America/Yakutat, America/ Yellowknife, Antarctica/Casey, Antarctica/Davis,
 Antarctica/DumontDUrville, Antarctica/ Macquarie, Antarctica/Mawson, Antarctica/McMurdo,
 Antarctica/Palmer, Antarctica/Rothera, Antarctica/South_Pole, Antarctica/Syowa, Antarctica/Troll,
 Antarctica/Vostok, Arctic/ Longyearbyen, Asia/Aden, Asia/Almaty, Asia/Amman, Asia/Anadyr, Asia/Aqtau,
 Asia/Aqtobe, Asia/Ashgabat, Asia/Ashkhabad, Asia/Baghdad, Asia/Bahrain, Asia/Baku, Asia/Bangkok,
 Asia/Beirut, Asia/Bishkek, Asia/Brunei, Asia/Calcutta, Asia/Chita, Asia/Choibalsan, Asia/ Chongqing,
 Asia/Chungking, Asia/Colombo, Asia/Dacca, Asia/Damascus, Asia/Dhaka, Asia/ Dili, Asia/Dubai,
 Asia/Dushanbe, Asia/Gaza, Asia/Harbin, Asia/Hebron, Asia/Ho_Chi_Minh, Asia/Hong_Kong, Asia/Hovd,
 Asia/Irkutsk, Asia/Istanbul, Asia/Jakarta, Asia/Jayapura, Asia/ Jerusalem, Asia/Kabul, Asia/Kamchatka,
 Asia/Karachi, Asia/Kashgar, Asia/Kathmandu, Asia/ Katmandu, Asia/Khandyga, Asia/Kolkata,
 Asia/Krasnoyarsk, Asia/Kuala_Lumpur, Asia/ Kuching, Asia/Kuwait, Asia/Macao, Asia/Macau,
 Asia/Magadan, Asia/Makassar, Asia/Manila, Asia/Muscat, Asia/Nicosia, Asia/Novokuznetsk,
 Asia/Novosibirsk, Asia/Omsk, Asia/Oral, Asia/ Phnom_Penh, Asia/Pontianak, Asia/Pyongyang, Asia/Qatar,
 Asia/Qyzylorda, Asia/Rangoon, Asia/Riyadh, Asia/Saigon, Asia/Sakhalin, Asia/Samarkand, Asia/Seoul,
 Asia/Shanghai, Asia/ Singapore, Asia/Srednekolymsk, Asia/Taipei, Asia/Tashkent, Asia/Tbilisi, Asia/Tehran,
 Asia/ Tel_Aviv, Asia/Thimbu, Asia/Thimphu, Asia/Tokyo, Asia/Ujung_Pandang, Asia/Ulaanbaatar,
 Asia/Ulan_Bator, Asia/Urumqi, Asia/Ust-Nera, Asia/Vientiane, Asia/Vladivostok, Asia/Yakutsk,
 Asia/Yekaterinburg, Asia/Yerevan, Atlantic/Azores, Atlantic/Bermuda, Atlantic/Canary,
 Atlantic/Cape_Verde, Atlantic/Faeroe, Atlantic/Faroe, Atlantic/Jan_Mayen, Atlantic/Madeira,
 Atlantic/Reykjavik, Atlantic/South_Georgia, Atlantic/St_Helena, Atlantic/Stanley, Australia/ ACT,
 Australia/Adelaide, Australia/Brisbane, Australia/Broken_Hill, Australia/Canberra, Australia/Currie,
 Australia/Darwin, Australia/Eucla, Australia/Hobart, Australia/LHI, Australia/ Lindeman,
 Australia/Lord_Howe, Australia/Melbourne, Australia/NSW, Australia/North, Australia/Perth,
 Australia/Queensland, Australia/South, Australia/Sydney, Australia/Tasmania, Australia/Victoria,
 Australia/West, Australia/Yancowinna, Brazil/Acre, Brazil/DeNoronha, Brazil/East, Brazil/West,
 Canada/Atlantic, Canada/Central, Canada/ East-Saskatchewan, Canada/Eastern, Canada/Mountain,
 Canada/Newfoundland, Canada/ Pacific, Canada/Saskatchewan, Canada/Yukon, Chile/Continental,
 Chile/EasterIsland, Cuba, Egypt, Eire, Etc/GMT, Etc/GMT+0, Etc/GMT+1, Etc/GMT+2, Etc/GMT+3,
 Etc/GMT+4, Etc/GMT+5, Etc/GMT+6, Etc/GMT+7, Etc/ GMT+8, Etc/GMT+9,Etc/GMT+10, Etc/GMT+11,
 Etc/GMT+12, Etc/GMT-0, Etc/GMT-1, Etc/GMT-2, Etc/GMT-3, Etc/GMT-4, Etc/GMT-5, Etc/GMT-6,
 Etc/GMT-7, Etc/GMT-8, Etc/GMT-9, Etc/GMT-10, Etc/GMT-11, Etc/GMT-12, Etc/ GMT-13, Etc/GMT-14,

Etc/GMT0, Etc/Greenwich, Etc/UCT, Etc/UTC, Etc/Universal, Etc/Zulu, Europe/Amsterdam, Europe/Andorra, Europe/Athens, Europe/Belfast, Europe/Belgrade, Europe/Berlin, Europe/Bratislava, Europe/Brussels, Europe/Bucharest, Europe/Budapest, Europe/Busingen, 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/Nicosia, 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/Tiraspol, Europe/Uzhgorod, Europe/Vaduz, Europe/Vatican, Europe/Vienna, Europe/Vilnius, Europe/Volgograd, Europe/Warsaw, Europe/Zagreb, Europe/Zaporozhye, Europe/Zurich, GB, GB-Eire, Greenwich, Hongkong, Iceland, Indian/Antananarivo, Indian/Chagos, Indian/Christmas, Indian/Cocos, Indian/Comoro, Indian/Kerguelen, Indian/Mahe, Indian/Maldives, Indian/Mauritius, Indian/Mayotte, Indian/Reunion, Iran, Israel, Jamaica, Japan, Kwajalein, Libya, Mexico/BajaNorte, Mexico/BajaSur, Mexico/General, Navajo, Pacific/Apia, Pacific/Auckland, Pacific/Bougainville, Pacific/Chatham, Pacific/Chuuk, Pacific/Easter, Pacific/Efate, Pacific/Enderbury, Pacific/Fakaofo, Pacific/Fiji, Pacific/Funafuti, Pacific/Galapagos, Pacific/Gambier, Pacific/Guadalcanal, Pacific/Guam, Pacific/Honolulu, Pacific/Johnston, Pacific/Kiritimati, Pacific/Kosrae, Pacific/Kwajalein, Pacific/Majuro, Pacific/Marquesas, Pacific/Midway, Pacific/Nauru, Pacific/Niue, Pacific/Norfolk, Pacific/Noumea, Pacific/Pago_Pago, Pacific/Palau, Pacific/Pitcairn, Pacific/Pohnpei, Pacific/Ponape, Pacific/Port_Moresby, Pacific/Rarotonga, Pacific/Saipan, Pacific/Samoa, Pacific/Tahiti, Pacific/Tarawa, Pacific/Tongatapu, Pacific/Truk, Pacific/Wake, Pacific/Wallis, Pacific/Yap, Poland, Portugal, Singapore, Turkey, US/Alaska, US/Aleutian, US/Arizona, US/Central, US/East-Indiana, US/Eastern, US/Hawaii, US/Indiana-Starke, US/Michigan, US/Mountain, US/Pacific, US/Pacific-New, US/Samoa

4.37 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)

4.38 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)

5 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.

5.1 Feature Icon Name

Default value: "Audio Call"

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)

5.2 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)

5.3 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)

5.4 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)

5.5 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)

5.6 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...255)

5.7 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)

5.8 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)

5.9 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)

5.10 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)

5.11 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)

5.12 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...255)

5.13 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...255)

5.14 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)

5.15 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...255)

5.16 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)

5.17 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").

5.18 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)

6 Layout Configuration

6.1 Feature Layout Id

Default value: 0

Usage:

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

Where

id: Number (0...4)

7 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.

7.1 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").

7.2 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)

7.3 Feature Logo Height

Default value: 200

Usage:

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

Where

index: Number (0...1)

value: Number (0...1000)

7.4 Feature Logo Width

Default value: 200

Usage:

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

Where

index: Number (0...1)

value: Number (0...1000)

8 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.).

8.1 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)

8.2 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)

8.3 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)

8.4 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...255)

8.5 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)

8.6 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)

8.7 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)

8.8 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)

8.9 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)

8.10 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...255)

8.11 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...255)

8.12 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").

8.13 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)

9 Date Time Configuration

9.1 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)

9.2 Setup DateTime NTP

NTP is an array but there is currently only one NTP server supported. To clear the NTP server, use empty quotes (set setup datetime ntp 0: "")

Default value: empty

Usage:

```
get setup datetime ntp index
set setup datetime ntp index: value
```

Where

index: Number (0) only one NTP server supported

value: IP Address (xxx.xxx.xxx.xxx)

10 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.

10.1 Setup Display Videoparam

Default value: native display resolution

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.

10.2 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)

10.3 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|...)

11 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.

11.1 Setup RunPreset

Default value: ""

Usage:

```
get setup runpreset
```

```
set setup runpreset: value
```

Where

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

12 Appendix

12.1 Breaking Changes in Version 1.1.0

12.1.1 *Removed Commands*

12.1.1.1 *Feature Clock FillColor*

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

- Feature Clock AnalogClockFont Color
- Feature Clock DigitalClockFont Color

12.1.1.2 *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

12.1.1.3 *Feature Clock Text*

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

- Feature Clock ClockName