

Doc. Name: Watchman-2024.0-ICD-003

Watchman ICD Version 2024.0

Revision No.: 003

Revision Date: 11/07/2024



WATCHMAN ICD

Watchman Version 2024.0

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Revision	Date	Changed by	Summary of Changes
003	11-07-2024	M.S.	Add example requests and responses from using methods.
002	14-06-2024	M.S.	Increase patch level. Add lens_calibration to Stream. Replace description with title in Scene. Update component_type in Fault.
001	21-05-2024	M.S.	Add show_image, error_image, and frame_timeout to Overlay.
000	28-02-2024	M.S.	Initial document

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Glossary

canvas The display area that Watchman uses to arrange and position overlays.

JSON JavaScript Object Notation, used to send and get requests from Watchman.

JSON-RPC A remote procedure call protocol encoded in [JSON](#).

Mosquitto Open source message broker by Eclipse that implements the [MQTT](#) protocol.

MQTT A lightweight [machine-to-machine network protocol](#) used to publish and subscribe to network requests.

overlay A configured video source that is positioned on the [canvas](#).

stream A video source used by Watchman (Video card/UDP/RTSP/File).

Video Wall The multiple connected screens over which Watchman displays video.

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1. System Description

This document provides an overview of the definitions used in the Watchman Version 2024.0 API. Watchman is a video compositor that can take feeds from multiple camera sources and widgets and display them across multiple connected screens known as the [Video Wall](#). Watchman is configured using [JSON-RPC](#) over [MQTT](#).

Watchman subscribes to the [MQTT](#) topic `watchman_rpc`, and publishes replies to `watchman_response`, and alerts to `watchman_alert`.

2. Examples

2.1 Method examples

The following examples show the [JSON](#) requests, [Mosquitto](#) requests, and [JSON](#) responses for a variety of methods. Note that the [JSONs](#) have been piped through jq and/or sed to improve readability.

2.1.1 add_stream

This method is used to add new video [stream](#) sources to Watchman. These sources can be from a video capture card, a UDP/RTSP network stream or from a file reachable by the hardware running Watchman. Multiple streams can be defined per Watchman instance. An input stream primary source must be defined, this can be from multiple different sources, and each source requires unique parameters. Watchman can process video using the *ffmpeg* library or the *gstreamer* library, or a *dummy* source can be added for testing purposes. When using a remote RTSP source, username and password credentials may be required to access the stream.

An example [JSON](#) request to use the [add_stream](#) method is as follows:

```
{
  "id": "STREAMS",
  "jsonrpc": "2.0",
  "method": "add_stream",
  "params": [
    {
      "source": {
        "uri": "rtsp://user:password@192.168.1.68",
        "name": "rtsp"
      },
      "stream_id": 1
    }
  ]
}
```

This can be sent using [Mosquitto](#) with the following command:

```
mosquitto_rr -t "watchman_rpc" -e "watchman_reply" -m '{ "id": "STREAMS", "jsonrpc": "2.0", "method": "add_stream", "params": [ { "source": { "uri": "rtsp://user:password@192.168.1.68", "name": "rtsp" }, "stream_id": 1 } ] }'
```

The resulting response of this `add_stream` request is:

```
{
  "jsonrpc": "2.0",
  "result": {
    "stream_id": 1,
    "source": {
      "name": "rtsp",
      "uri": "rtsp://user:password@192.168.1.100",
      "resolution": [
        0,
        0
      ],
      "flags": 0,
      "extra": []
    },
    "frame_timeout": 0
  },
  "id": "STREAMS"
}
```

2.1.2 add_render

This method defines the render environment for the combined `overlays`. Multiple render surfaces can be defined and can correspond to a UDP video stream or a monitor connected to the device running Watchman. An output stream can be defined for each render. Parameters such as the bitrate, destination address, port, and resolution can be configured. The panel view (position on the canvas) is also defined here and is used to tell Watchman where the render is going to be displayed.

An example `JSON` request to use the `add_render` method is as follows:

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "add_render",
  "params": [
    {
      "render_id": 0,
      "panel_view": [
        0,
        0
      ],
      "uri": "rtsp://user:password@192.168.1.100"
    }
  ]
}
```

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```

        0,
        1,
        1
    ]
}
]
}
}
```

This can be sent using [Mosquitto](#) with the following command:

```
mosquitto_rr -t "watchman_rpc" -e "watchman_reply" -m '{ "jsonrpc": "2.0", "id": 1,
    "method": "add_render", "params": [ { "render_id": 0, "panel_view": [ 0, 0, 1, 1 ] } ] }'
```

The resulting response of this [add_render](#) request is:

```
{
  "jsonrpc": "2.0",
  "result": {
    "render_id": 0,
    "panel_view": [
      0.0,
      0.0,
      1.0,
      1.0
    ],
    "resolution": [
      1024,
      768
    ],
    "clear_color": [
      0.0,
      0.0,
      0.0
    ]
  },
  "id": 1
}
```

2.1.3 add_overlay

This method takes a previously defined video [stream](#) and uses it to create an [overlay](#). This [overlay](#) is visible on the virtual screen. This function can be used to perform multiple actions on the supplied video stream:

- The original video can be cropped down to a smaller size.
- A scene can be assigned to each [overlay](#), meaning that it can be hidden from display until required.
- The original [stream](#) can be flipped along the X axis.
- The position of the [overlay](#) on the canvas can be defined, allowing users to place the [overlay](#) anywhere on screen.

An example [JSON](#) request to use the [add_overlay](#) method is as follows:

```
{
  "id": "OVERLAYS",
  "jsonrpc": "2.0",
  "method": "add_overlay",
  "params": [
    {
      "scenes": [ "main" ],
      "crop": [
        0.0,
        0.0,
        1.0,
        1.0
      ],
      "flip_x": false,
      "overlay_id": 0,
      "stream_id": 0,
      "position": [
        0.0,
        0.1,
        0.5,
        0.7
      ],
      "z_index": 1
    }
  ]
}
```

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```
}
```

This can be sent using [Mosquitto](#) with the following command:

```
mosquitto_rr -t "watchman_rpc" -e "watchman_reply" -m '{ "id": "OVERLAYS", "jsonrpc": "2.0", "method": "add_overlay", "params": [ { "crop": [ 0.0, 0.0, 1.0, 1.0 ], "flip_x": false, "overlay_id": 0, "stream_id": 0, "position": [ 0.0, 0.1, 0.5, 0.7 ], "z_index": 1 } ] }'
```

The resulting response of this [add_overlay](#) request is:

```
{
  "jsonrpc": "2.0",
  "result": {
    "overlay_id": 0,
    "stream_id": 0,
    "show_image": "",
    "error_image": "",
    "frame_timeout": 0,
    "scenes": [],
    "z_index": 1,
    "position": [
      0.0,
      0.1000000149011612,
      0.5,
      0.699999988079071
    ],
    "crop": [
      0.0,
      0.0,
      1.0,
      1.0
    ],
    "crop_indicator_position": [
      0.44999998807907107,
      0.02500000037252903,
      0.10000000149011612,
      0.10000000149011612
    ],
  }
}
```

```

    "border": false,
    "no_scaling": false,
    "selectable": true,
    "enable_zoom": false,
    "flip_x": false,
    "flip_y": false,
    "swap_x_y": false
  },
  "id": "OVERLAYS"
}

```

2.1.4 status

The [JSON](#) request to use the `status` method is as follows:

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "status"
}
```

This can be sent using [Mosquitto](#) with the following command:

```
mosquitto_rr -t "watchman_rpc" -e "watchman_reply" -m '{ "jsonrpc": "2.0", "id": 1,
  "method": "status" }'
```

The resulting response of this `status` request is:

```
{
  "jsonrpc": "2.0",
  "result": {
    "software_version": "2024.0 (2024-06-13, commit abc1234, branch 'develop')",
    "api_version": {
      "version": 1,
      "patch_level": 0,
      "extra_version": "beta"
    },
    "fault_conditions": [],
    "time": 423308275891
  },
}
```

```
    "id": 1
}
```

2.1.5 clear_current_settings

The [JSON](#) request to use the `clear_current_settings` method is as follows:

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "clear_current_settings"
}
```

This can be sent using [Mosquitto](#) with the following command:

```
mosquitto_rr -t "watchman_rpc" -e "watchman_reply" -m '{ "jsonrpc": "2.0", "id": 1,
  "method": "clear_current_settings" }'
```

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The resulting response of this `clear_current_settings` request is:

```
{  
    "jsonrpc": "2.0",  
    "result": {  
        "profile": {  
            "profile_id": 0,  
            "name": "Unnamed"  
        },  
        "screen_text": {  
            "log": {  
                "spacing": 0.0399999910593033,  
                "x": -0.8999999761581421,  
                "y": 0.8999999761581421,  
                "count": 12,  
                "expires": true,  
                "lifetime_ns": 10000000000,  
                "scene": "",  
                "viewport": [  
                    0.0,  
                    0.0,  
                    1.0,  
                    1.0  
                ],  
                "color": [  
                    1.0,  
                    1.0,  
                    1.0,  
                    1.0  
                ],  
                "size": 1.0,  
                "alignment": 1,  
                "font": 1  
            },  
            "status": {  
                "x": 0.0,  
                "y": 0.0,  
                "scene": ""  
            }  
        }  
    }  
}
```

```

    "viewport": [
        0.0,
        0.0,
        1.0,
        1.0
    ],
    "color": [
        0.20000000298023225,
        1.0,
        0.20000000298023225,
        1.0
    ],
    "size": 1.5,
    "alignment": 2,
    "v_alignment": 1,
    "font": 2
},
},
"streams": [],
"overlays": [],
"renders": [],
"scenes": [],
"last_updated": "Never"
},
"id": 1
}

```

2.2 FaultAlert

A [FaultAlert](#) is published to the [MQTT](#) topic “watchman_alert” periodically until they are resolved and then until they expire. While watchman is running, execute the following to subscribe to the fault alerts:

```
mosquitto_pub -t "watchman_alert"
```

This will usually produce a response similar to the following:

```
{
  "faults": [] ,
```

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```
    "time": 16230902017620
}
```

where, the existence of no faults is shown as an empty array of type `ult]Fault`.

An example fault can be induced by an invalid camera source due to an incorrect camera IP address. The resulting fault alert during this fault is shown below:

```
{
  "faults": [
    {
      "component_type": 1,
      "item_id": 0,
      "fault_code": 2,
      "info": "Source process 0 (rtsp) did not provide a frame in time.",
      "began": 16261731260622,
      "last_seen": 16261731260622
    }
  ],
  "time": 16261739757696
}
```

3. API

3.1 Methods

Method:	status		
Result Type:	<code>api::watchman::Status</code>		
Parameters:	<i>None</i>		

Method:	load_settings		
Result Type:	<code>settings::Compositor</code>		
Parameters:	Name:	profile_id	Type: ProfileId (int)

Method:	delete_settings		
Result Type:	ProfileId (int)		
Parameters:	Name:	profile_id	Type: ProfileId (int)

Method:	<code>save_current_settings</code>
Result Type:	<code>settings::Compositor</code>
Parameters:	<i>None</i>

Method:	<code>clear_current_settings</code>
Result Type:	<code>settings::Compositor</code>
Parameters:	<i>None</i>

Method:	<code>get_profiles</code>
Result Type:	Array of <code>settings::Profile</code>
Parameters:	<i>None</i>

Method:	<code>get_current_settings</code>
Result Type:	<code>settings::Compositor</code>
Parameters:	<i>None</i>

Method:	<code>get_settings</code>			
Result Type:	<code>settings::Compositor</code>			
Parameters:	Name:	profile_id	Type:	ProfileId (int)

Method:	<code>get_scenes</code>		
Result Type:	Array of <code>settings::Scene</code>		
Parameters:	<code>None</code>		

Method:	<code>set_scenes</code>		
Result Type:	Array of <code>settings::Scene</code>		
Parameters:	Name:	<code>scenes</code>	Type: Array of <code>settings::Scene</code>

Method:	<code>get_current_scene</code>		
Result Type:	<code>settings::Scene</code>		
Parameters:	<code>None</code>		

Method:	<code>set_current_scene</code>		
Result Type:	<code>settings::Scene</code>		
Parameters:	Name:	<code>scene_id</code>	Type: String
		<code>indicator</code>	Bool

Method:	<code>set_current_scene_by_index</code>		
Result Type:	<code>settings::Scene</code>		
Parameters:	Name:	<code>index</code>	Type: Unsigned int
		<code>indicator</code>	Bool

Method:	<code>change_selected_overlay</code>			
Result Type:	ItemId (int) or null			
Parameters:	Name:	increment	Type:	Int

Method:	<code>joystick_position</code>			
Result Type:	Array of 3 float			
Parameters:	Name:	position	Type:	Array of 3 floats

Method:	<code>set_profile</code>			
Result Type:	<code>settings::Profile</code>			
Parameters:	Name:	profile	Type:	<code>settings::Profile</code>

Method:	<code>add_stream</code>			
Result Type:	<code>settings::Stream</code>			
Parameters:	Name:	stream	Type:	<code>settings::Stream</code>

Method:	<code>remove_stream</code>			
Result Type:	ItemId (int)			
Parameters:	Name:	stream_id	Type:	ItemId (int)

Method:	add_overlay		
Result Type:	<code>settings::Overlay</code>		
Parameters:	Name:	overlay	Type: <code>settings::Overlay</code>

Method:	move_overlay		
Result Type:	<code>settings::Overlay</code>		
Parameters:	Name: overlay_id	Type: ItemId (int)	position Array of 4 floats

Method:	remove_overlay		
Result Type:	ItemId (int)		
Parameters:	Name: overlay_id	Type: ItemId (int)	

Method:	add_render		
Result Type:	<code>settings::Render</code>		
Parameters:	Name: render	Type: <code>settings::Render</code>	

Method:	remove_render		
Result Type:	ItemId (int)		
Parameters:	Name: render_id	Type: ItemId (int)	

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Method:	<code>get_video_interface</code>
Result Type:	Array of <code>settings::VideoInterface</code>
Parameters:	<i>None</i>

3.2 Definitions of Types

Fault			
Name	Type	Required	Description
component_type	ComponentType (Unsigned int)	Yes	Possible values: 0: None, 1: Heartbeat, 2: Source, 3: Sink, 4: Render, 5: Overlay, 6: Keyboard.
item_id	ItemId (int)	Yes	Individual element that the fault corresponds to.
fault_code	FaultCode (Unsigned int)	Yes	Possible values: 0: General fault, 1: Screen not found or disconnected, 2: Frame out of date, 3: Sink restarted
info	String	Yes	Description of the fault.
began	Int	Yes	Fault start time (monotonic clock).
last_seen	Int	Yes	Fault was last reported at this time (monotonic clock).

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FaultAlert			
Name	Type	Required	Description
faults	Array of Fault	Yes	Array of current reported faults. May be empty.
time	Int	Yes	Monotonic clock's time of this message, for comparison with fault times.

settings::Profile			
Name	Type	Required	Description
profile_id	ProfileId (int)	Yes	Profile identifier. Default value: 0.
name	String	Yes	Profile name. Default: "Unnamed".

settings::ScreenMode			
Name	Type	Required	Description
description	String	Yes	Description of the screen mode.
mode	String	Yes	A mode string that should be sent verbatim to select this screen mode.
preferred	Bool	Yes	True if this is a native/preferred mode of the monitor.

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settings::MonitorInfo

Name	Type	Required	Description
description	String	Yes	Description of the connected monitor.
modes	Array of settings::ScreenMode	Yes	A list of modes supported by the monitor.

settings::VideoInterface

Name	Type	Required	Description
connector_name	String	Yes	Description of the connector, eg “DP-1”.
connected_device	settings::MonitorInfo	No	The monitor information, if one is connected.

settings::Display

Name	Type	Required	Description
connector_name	String	No	Name of connector type, e.g., HDMI.
mode	String	No	Monitor mode.
vsync	Bool	No	Default: <i>true</i> .

settings::Sink			
Name	Type	Required	Description
name	String	No	sink name. Default: 0.
resolution	Array of 2 unsigned ints	No	Sink resolution width and height. Default: (1024, 768).
udp_destination	String	No	UDP sink address. Default: 0
udp_port	Int	No	UDP port. Default: 5000.
rtsp_port	Int	No	RTSP port. Default: 8554.
bitrate	Int	No	Bitrate in kb/sec. Default: 2000.
quality	Int	No	Encoder speed-preset . Default: 1 <i>ultrafast</i> .
key_int	Int	No	Maximal distance between two key-frames. Default: 100.
use_gpu	Bool	No	Whether or not to use the GPU. Default: <i>false</i> .
intra_refresh	Bool	No	When enabled, Periodic Intra Refresh is used instead of IDR frames. Default: <i>false</i> .
tag_family	String	No	<i>AprilTag</i> family. Default: tag36h11, possible values: tag36h11, tag36h10, tag36artoolkit, tag25h9, tag25h7, tag16h5.
tag_code	Int	No	<i>AprilTag</i> code. Default: 0.
tag_size	Double	No	Default: 0.3.

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settings::Render

Name	Type	Required	Description
render_id	ItemId (int)	Yes	Render identifier. Default: 0.
panel_view	Array of 4 floats	No	Panel view x position, y position, width and height. Default: (0.0, 0.0, 1.0, 1.0).
resolution	Array of 2 unsigned ints	No	Resolution width and height. Default: (1024, 768).
clear_color	Array of 3 floats	No	Clear colour RGB value (default is black). Default: (0.0, 0.0, 0.0), value Range: (0 to 1, 0 to 1, 0 to 1).
display	settings::Display	No	Render window.
sink	settings::Sink	No	Render sink.

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settings::FrameSource

Name	Type	Required	Description
name	String	Yes	Possible values: <i>dummy</i> : for testing, <i>ffmpeg</i> : ffmpeg, <i>rtsp</i> : gstreamer rtsp/rtp client, <i>web</i> : Web plugins.
uri	String	Yes	The meaning is different depending upon the source, but typically a URL.
resolution	Array of 2 ints	No	Resolution, for sources that the user can control the resolution, e.g. web.
flags	Unsigned int	No	A sum of the chosen flag's values: 0 : nothing, 1 : use GPU (used by "rtsp" source (gstreamer)), 2 : use TCP (used by "ffmpeg" rtsp source).

settings::Stream			
Name	Type	Required	Description
stream_id	ItemId (int)	Yes	Unique number representing this source. Default: -1.
source	settings::FrameSource	Yes	Settings for the frame source.
lens_calibration	LensCalibrationParams (array of 7 floats)	No	Calibration parameters are f_x , f_y , k_1 , k_2 , k_3 , k_4 , k_5 . See: Adobe Camera Model; Simon Chen, Hailin Jin, Jeff Chien, Eric Chan, Dan Goldman; Adobe Systems Inc. Technical Report, Version 1.0, January, 2010
frame_timeout	Int	No	Timeout in milliseconds, after which the panel will display an error. Default: 1,000.

settings::Overlay			
Name	Type	Required	Description
overlay_id	ItemId (int)	Yes	overlay identifier. Default: -1.
stream_id	ItemId (int)	No	Identifier for the stream that the overlay is for. Default: -1.
show_image	String	No	Always shows selected image.
error_image	String	No	Select test card to be shown in event of error: ‘DTUP_camera_failed_2’, ‘DTUP_camera_failed_3’, ‘DTUP_camera_failed_4’, ‘DTUP_camera_not_in_use_2’, ‘DTUP_camera_not_in_use_3’, ‘DTUP_camera_not_in_use_4’
frame_timeout	Int	No	Frame timeout in milliseconds. Default: 0.
scenes	Array of strings	No	The settings::Compositor scenes that will display the overlay . If settings::Compositor has no scenes, the overlay will always be displayed.
z_index	Int	No	overlay z index. Larger values appear on top. Default: 0.
position	Array of 4 float	No	overlay x position, y position, width and height. Default: (0.0, 0.0, 1.0, 1.0).
crop	Array of 4 float	No	overlay crop x position, y position, width and height. Default: (0.0, 0.0, 1.0, 1.0).
crop_indicator_position	Array of 4 float	No	Crop indicator x position, y position, width and height. Default: (0.45, 0.025, 0.1, 0.1).

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border	Bool	No	Whether or not to draw a border around the overlay . Default: <i>false</i> .
no_scaling	Bool	No	Whether or not to scale the overlay (<i>unused</i>). Default: <i>false</i> .
selectable	Bool	No	Whether or not the overlay is selectable. Default: <i>true</i> .
enable_zoom	Bool	No	Whether or not the overlay is zoomed. The <code>crop</code> needs to be set for <code>enable_zoom</code> to be applied. Default: <i>false</i> .
flip_x	Bool	No	Whether or not to flip the overlay on the x axis. Default: <i>false</i> .
flip_y	Bool	No	Whether or not to flip the overlay on the y axis. Default: <i>false</i> .
swap_x_y	Bool	No	Whether or not to swap x and y of the overlay . Default: <i>false</i> .

settings::Scene

Name	Type	Required	Description
<code>id</code>	String	Yes	Unique string identifying the scene.
<code>title</code>	String	Yes	Title of the scene.

settings::TextLog			
Name	Type	Required	Description
spacing	Float	No	Vertical text spacing. Default: 0.04.
x	Float	No	x position. Default: -0.9.
y	Float	No	y position (<i>unused</i>). Default: 0.9.
count	Unsigned int	No	Count of text items to log. Default: 12.
expires	Bool	No	Whether or not to remove text after its lifetime expires. Default: <i>true</i> .
lifetime_ns	Int	No	Lifetime of text in nanoseconds. Default: 10,000,000,000.
scene	String	No	Scene to display text on. Will also display if no current scene.
viewport	Array of 4 float	No	The text's viewport location. Default: (0.0, 0.0, 1.0, 1.0).
color	Array of 4 float	No	The text's colour. Default: (1.0, 1.0, 1.0, 1.0).
size	Float	No	Text horizontal and vertical size. Default: 1.0.
alignment	TextAlignmentEnum (Int)	No	Text alignment. Default: 1 <i>align left</i> . Possible values: 0 <i>align prefix left</i> (<i>unused</i>), 1 <i>align left</i> , 2 <i>align center</i> , 3 <i>align right</i> , 4 <i>align postfix right</i> .
font	TextFontEnum (Int)	No	Font style. Default: 1 <i>bold</i> . Possible values: 0 <i>regular</i> , 1 <i>bold</i> , 2 <i>italic</i> .

settings::StatusText

Name	Type	Required	Description
x	Float	No	x position. Default: 0.0.
y	Float	No	y position. Default: 0.0.
scene	String	No	Scene to display text on. will also display if no current scene.
viewport_location	Array of 4 float	No	The text's viewport location. Default: (0.0, 0.0, 1.0, 1.0).
color	Array of 4 float	No	The text's colour. Default: (0.2, 1.0, 0.2, 1.0).
size	Float	No	Text horizontal and vertical size. Default: 1.5.
alignment	TextAlignmentEnum (Int)	No	Text alignment. Default: 2 <i>align center</i> . Possible values: 0 <i>align prefix left (unused)</i> , 1 <i>align left</i> , 2 <i>align center</i> , 3 <i>align right</i> , 4 <i>align postfix right</i> .
v_alignment	TextVAlignmentEnum (Int)	No	Text vertical alignment. Default: 1 <i>center</i> . Possible values: 0 <i>top</i> , 1 <i>center</i> , 2 <i>bottom</i> .
font	TextFontEnum (Int)	No	Font style. Default: 2 <i>italic</i> . Possible values: 0 <i>regular</i> , 1 <i>bold</i> , 2 <i>italic</i> .

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settings::ScreenText

Name	Type	Required	Description
log	settings::TextLog	No	Text log settings.
status	settings::StatusText	No	Status text settings.

settings::Compositor

Name	Type	Required	Description
profile	settings::Profile	No	The compositor profile.
screen_text	settings::ScreenText	No	The compositor screen text.
streams	Array of settings::Stream	No	The compositor streams.
overlays	Array of settings::Overlay	No	The compositor overlays.
renders	Array of settings::Render	No	The compositor renders.
scenes	Array of settings::Scene	No	The compositor scenes.
last_updated	String	No	Timestamp of last compositor settings update, or Never. Default: Never. Timestamp format: YYYY-MM-DD HH:MM:SS.uuuuuu

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ApiVersion			
Name	Type	Required	Description
version	Unsigned int	Yes	Major version of this API.
patch_level	Unsigned int	Yes	Patch level of this API.
extra_version	String	Yes	Extra information about the version, e.g. beta. May be empty.

api::watchman::Status			
Name	Type	Required	Description
software_version	String	Yes	<i>major:minor:patch</i> version of Watchman.
api_version	ApiVersion	Yes	Version of this API.
faults	Array of Fault	Yes	Array of current reported faults. May be empty.
time	Int	Yes	Monotonic clock's time of this message, for comparison with fault times.