
TICRO 100 API

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Overview

Sources

Name	Description
<u>Api</u>	The API service offers the SOAP interface to control the TICRO 100.
<u>JSON</u>	

Api Web Service

Description

The API service offers the SOAP interface to control the TICRO 100.

Remarks

Usage examples in different programming languages can be found [here](#).

See Also

[Methods](#) | [Complex Types](#) | [Simple Types](#)

Methods: Api

Methods

Name	Description
<u>GetAvailableTimezones</u>	Gets all possible time zones.
<u>GetCurrentTime</u>	Returns the current system time.
<u>GetDeviceInformation</u>	Get general device information.
<u>GetDeviceStatus</u>	Returns the device status.
<u>GetGeneralSettings</u>	Returns the general settings.
<u>GetHttpSettings</u>	Get the HTTP settings.
<u>GetLog</u>	Get the log.
<u>GetNetworkSettings</u>	Get the network settings.
<u>GetNetworkStatus</u>	Get network information like IP address or hostname. These are the settings currently active on the device.
<u>GetOuputStatus</u>	Returns the status of the outputs.
<u>GetPtpSettings</u>	Get the PTP settings.
<u>GetPtpStatus</u>	Get PTP information like sync status.
<u>GetSyslogSettings</u>	Get the syslog settings.
<u>GetSystemSettings</u>	Get the system settings.
<u>Login</u>	Authenticates the client for this session.
<u>Reboot</u>	Reboots the device.
<u>Reset</u>	Resets the device.
<u>SetCurrentTime</u>	Configures the current system time.
<u>SetGeneralSettings</u>	Configures the general settings.
<u>SetHttpSettings</u>	Set the HTTP settings.
<u>SetNetworkGeneralSettings</u>	Set the general network settings. ATTENTION: The service endpoint might change after this call!
<u>SetNetworkIPv4Settings</u>	Set the IPv4 network settings. ATTENTION: The service endpoint might change after this call!
<u>SetNetworkIPv6Settings</u>	Set the IPv6 network settings. ATTENTION: The service endpoint might change after this call!
<u>SetOutputConfiguration</u>	Configures the outputs.
<u>SetPtpE2EProfileSettings</u>	Sets the E2E profile PTP settings
<u>SetPtpGeneralSettings</u>	Sets the general PTP settings
<u>SetPtpP2PProfileSettings</u>	Sets the P2P profile PTP settings
<u>SetPtpPowerSystemsProfileSettings</u>	Sets the power systems profile PTP settings
<u>SetSyslogSettings</u>	Set the syslog settings.
<u>SetSystemSettings</u>	Set the system settings.
<u>Status</u>	Returns "OK" if the service connection is working. This method is to check the service connection.

Method: GetAvailableTimezones**Description**

Gets all possible time zones.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetAvailableTimezonesResponse element having the structure defined by the following table.

Name	Type	Description
GetAvailableTimezonesResult	<u>ArrayOfTimezoneInfo</u>	Array of time zone infos.

Method: GetCurrentTime**Description**

Returns the current system time.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetCurrentTimeResponse element having the structure defined by the following table.

Name	Type	Description
GetCurrentTimeResult	string	The current time on the device. The format is yyyy-mm-ddThh:MM:ss±hh:mm, e.g. 2013-11-19T12:56:50+00:00.

Remarks

SOAP methods can take longer than 1s to be processed. If you need faster updates it is possible to use the JSON status updates also used by the web user interface. See the [JSON area](#) or the samples for details.

Method: GetDeviceInformation**Description**

Get general device information.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetDeviceInformationResponse element having the structure defined by the following table.

Name	Type	Description
GetDeviceInformationResult	<u>DeviceInformation</u>	Provides general information about the device, e.g. the software version.

Remarks

SOAP methods can take longer than 1s to be processed. If you need faster updates it is possible to use the JSON status updates also used by the web user interface. See the [JSON area](#) or the samples for details.

Method: GetDeviceStatus**Description**

Returns the device status.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetDeviceStatusResponse element having the structure defined by the following table.

Name	Type	Description
GetDeviceStatusResult	<u>DeviceStatus</u>	Provides information on the device status.

Remarks

SOAP methods can take longer than 1s to be processed. If you need faster updates it is possible to use the JSON status updates also used by the web user interface. See the [JSON area](#) or the samples for details.

Method: GetGeneralSettings**Description**

Returns the general settings.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetGeneralSettingsResponse element having the structure defined by the following table.

Name	Type	Description
GetGeneralSettingsResult	<u>GeneralConfiguration</u>	Hold some general configuration options.

Method: GetHttpSettings**Description**

Get the HTTP settings.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetHttpSettingsResponse element having the structure defined by the following table.

Name	Type	Description
GetHttpSettingsResult	<u>HttpConfiguration</u>	Provides information on the web server configuration of the device.

Method: GetLog**Description**

Get the log.

Parameters

Name	Type	Description
amount	int	The amount of log entries to return.

Returns

A GetLogResult element having the structure defined by the following table.

Name	Type	Description
LogEntry	<u>LogEntry</u>	Array of LogEntry objects.

Method: GetNetworkSettings**Description**

Get the network settings.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetNetworkSettingsResponse element having the structure defined by the following table.

Name	Type	Description
GetNetworkSettingsResult	<u>NetworkConfiguration</u>	Providing information on the network configuration of the device.

Method: GetNetworkStatus**Description**

Get network information like IP address or hostname. These are the settings currently active on the device.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetNetworkStatusResponse element having the structure defined by the following table.

Name	Type	Description
GetNetworkStatusResult	<u>NetworkInformation</u>	Providing information on the current network configuration of the device.

Remarks

SOAP methods can take longer than 1s to be processed. If you need faster updates it is possible to use the JSON status updates also used by the web user interface. See the JSON area or the samples for details.

Method: GetOutputStatus**Description**

Returns the status of the outputs.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetOutputStatusResponse element having the structure defined by the following table.

Name	Type	Description
GetOutputStatusResult	<u>ArrayOfOutputConfigurati on</u>	Array of output configurations.

Remarks

SOAP methods can take longer than 1s to be processed. If you need faster updates it is possible to use the JSON status updates also used by the web user interface. See the [JSON area](#) or the samples for details.

Method: GetPtpSettings**Description**

Get the PTP settings.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetPtpSettingsResponse element having the structure defined by the following table.

Name	Type	Description
GetPtpSettingsResult	<u>PtpConfiguration</u>	Providing information on the PTP configuration of the device.

Method: GetPtpStatus**Description**

Get PTP information like sync status.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetPtpStatusResponse element having the structure defined by the following table.

Name	Type	Description
GetPtpStatusResult	<u>PtpStatus</u>	Please refer to the PTP standard for further description of these values.

Remarks

SOAP methods can take longer than 1s to be processed. If you need faster updates it is possible to use the JSON status updates also used by the web user interface. See the [JSON area](#) or the samples for details.

Method: GetSyslogSettings**Description**

Get the syslog settings.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetSyslogSettingsResponse element having the structure defined by the following table.

Name	Type	Description
GetSyslogSettingsResult	<u>SyslogConfiguration</u>	Providing information on the syslog configuration of the device.

Method: GetSystemSettings**Description**

Get the system settings.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A GetSystemSettingsResponse element having the structure defined by the following table.

Name	Type	Description
GetSystemSettingsResult	<u>SystemConfiguration</u>	Providing information on the system and daemon configuration of the device.

Method: Login**Description**

Authenticates the client for this session.

Parameters

Name	Type	Description
password	string	The currently configured password. Default is "timeterminal" (without quotes).

Returns

A LoginResult element.

Remarks

This is only necessary, if "login" in the system settings is enabled. You need to use the same session for every request if enabled.

Method: Reboot**Description**

Reboots the device.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A RebootResponse element having the structure defined by the following table.

Name	Type	Description
RebootResult	boolean	TRUE if the reboot was started.

Remarks

The device needs ~60s to complete this action. It is possible that the request fails if the device reboots before the response is sent out.

Method: Reset**Description**

Resets the device.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A ResetResponse element having the structure defined by the following table.

Name	Type	Description
ResetResult	boolean	TRUE if the reset was started.

Remarks

The device needs ~60s to complete this action. It is possible that the request fails if the device reboots before the response is sent out.

Method: SetCurrentTime**Description**

Configures the current system time.

Parameters

Name	Type	Description
time	string	Sets the current time. The format is yyyy-mm-ddThh:MM:ss±hh:mm, e.g. 2013-11-19T12:56:50+00:00.

Returns

A SetCurrentTimeResult element.

Remarks

This value will be overwritten as soon as a PTP lock is acquired.

Method: SetGeneralSettings**Description**

Configures the general settings.

Parameters

Name	Type	Description
config	<u>GeneralConfiguration</u>	The new configuration to set.

Returns

A SetGeneralSettingsResult element having the structure defined by the following table.

Name	Type	Description
Timezone	string	The current time zone the device is configured to, e.g. "UTC" or "Europe\Vienna".
LeapSeconds	int	The offset of UTC from TAI in seconds.
OutputsActive	<u>OutputActivationMode</u>	This value defines when the outputs are active.
LocalTimeOffsetBeforeChange	int	The offset of the local time from UTC in minutes before the DST change.
LocalTimeDstChangeDateTime	string	The time of the next DST change. The format is yyyy-mm-ddThh:MM:ss±hh:mm, e.g. 2013-11-19T12:56:50+00:00.
LocalTimeOffsetAfterChange	int	The offset of the local time from UTC in minutes after the DST change.

Method: SetHttpSettings**Description**

Set the HTTP settings.

Parameters

Name	Type	Description
config	<u>HttpConfiguration</u>	The new configuration to set.

Returns

A SetHttpSettingsResult element having the structure defined by the following table.

Name	Type	Description
Mode	<u>HttpMode</u>	If set to "https" only secure connections are allowed.
Authentication	<u>PropertyState</u>	If set to "enabled" a login is required before any actions can be executed.
ServiceAccess	int	A 2-bit bitmask defining which access modes are enabled. Bit 1 is the web interface and bit 2 is the SOAP service. Consequently 1 enables only the web interface, 2 only the SOAP service and 3 both.

Remarks

The device needs ~30s to complete this action. It is possible that the request fails if the web server restarts before the response is sent out.

Method: SetNetworkGeneralSettings**Description**

Set the general network settings. ATTENTION: The service endpoint might change after this call!

Parameters

Name	Type	Description
settings	<u>GeneralNetworkSettings</u>	The new general network settings.

Returns

A SetNetworkGeneralSettingsResult element having the structure defined by the following table.

Name	Type	Description
Hostname	string	The hostname of the device.
Domain	string	The domain the device is in.
OmFind	<u>PropertyState</u>	Enables or disables the possibility to change the network settings via the OMICRON Device Browser.
NetworkBridge	<u>PropertyState</u>	Enables or disables the network bridge between the Ethernet and USB network. Must be enabled for the TICRO 100 to allow to use the web UI or SOAP interface via USB.
DefaultPort	<u>NetworkPort</u>	The network port which will be selected by default.
IPv4Configuration	<u>IPv4Configuration</u>	The IPv4 network configuration.
IPv6Configuration	<u>IPv6Configuration</u>	The IPv6 network configuration.

Remarks

The device needs ~30s to complete this action. It is possible that the request fails if the web server restarts before the response is sent out.

Method: SetNetworkIPv4Settings**Description**

Set the IPv4 network settings. ATTENTION: The service endpoint might change after this call!

Parameters

Name	Type	Description
settings	<u>IPv4Configuration</u>	The new IPv4 configuration.

Returns

A SetNetworkIPv4SettingsResult element having the structure defined by the following table.

Name	Type	Description
Mode	<u>IPv4Mode</u>	The mode which should be used to select the IPv4 address.
Address	string	The IPv4 address of the device.
Netmask	string	The IPv4 subnet mask of the device.
Gateway	string	The IPv4 gateway of the device.
Nameserver1	string	The first IPv4 name server.
Nameserver2	string	The second IPv4 name server.

Remarks

The device needs ~30s to complete this action. It is possible that the request fails if the web server restarts before the response is sent out.

Method: SetNetworkIPv6Settings**Description**

Set the IPv6 network settings. ATTENTION: The service endpoint might change after this call!

Parameters

Name	Type	Description
settings	<u>IPv6Configuration</u>	The new IPv6 configuration.

Returns

A SetNetworkIPv6SettingsResult element having the structure defined by the following table.

Name	Type	Description
Mode	<u>IPv6Mode</u>	The mode which should be used to select the IPv6 address.
Address	string	The IPv6 address of the device.
Netmask	string	The IPv6 subnet mask of the device.
Gateway	string	The IPv6 gateway of the device.
Nameserver1	string	The first IPv6 name server.
Nameserver2	string	The second IPv6 name server.

Remarks

The device needs ~30s to complete this action. It is possible that the request fails if the web server restarts before the response is sent out.

Method: SetOutputConfiguration**Description**

Configures the outputs.

Parameters

Name	Type	Description
config	<u>ArrayOfOutputConfigurati on</u>	Array of the configuration of one or all of the 5 outputs.

Returns

A SetOutputConfigurationResult element having the structure defined by the following table.

Name	Type	Description
OutputConfiguration	<u>OutputConfiguration</u>	Providing information on the configuration of an output.

Method: SetPtpE2EProfileSettings**Description**

Sets the E2E profile PTP settings

Parameters

Name	Type	Description
config	<u>E2EProfileConfiguration</u>	The new E2E configuration.

Returns

A SetPtpE2EProfileSettingsResult element having the structure defined by the following table. Please refer to the PTP standard for further description of these values.

Name	Type	Description
TransportMechanism	<u>PtpTransportMechanism</u>	
LogAnnounceInterval	int	
LogSyncInterval	int	
AnnounceReceiptTimeout	int	
LogMinDelayReqInterval	int	

Method: SetPtpGeneralSettings**Description**

Sets the general PTP settings

Parameters

Name	Type	Description
config	<u>GeneralPtpSettings</u>	The new general PTP settings.

Returns

A SetPtpGeneralSettingsResult element having the structure defined by the following table. Please refer to the PTP standard for further description of these values.

Name	Type	Description
Mode	<u>PtpMode</u>	The currently selected PTP profile.
UserDescription	string	The PTP user description.
DomainNumber	int	The PTP domain number.
MaxGrandmasterTimeInaccuracy	<u>PtpAccuracy</u>	The maximal allowed inaccuracy of a grandmaster to be accepted by the device.
IPv6MulticastAddress	<u>IPv6MulticastType</u>	The address of the IPv6 multicast.
E2EDefaultProfileConfiguration	<u>E2EProfileConfiguration</u>	The configuration of the default E2E profile.
P2PDefaultProfileConfiguration	<u>P2PProfileConfiguration</u>	The configuration of the default P2P profile.
PowerSystemsProfileConfiguration	<u>PowerSystemsProfileConfiguration</u>	The configuration of the power systems profile.

Method: SetPtpP2PProfileSettings**Description**

Sets the P2P profile PTP settings

Parameters

Name	Type	Description
config	<u>P2PProfileConfiguration</u>	The new P2P description.

Returns

A SetPtpP2PProfileSettingsResult element having the structure defined by the following table. Please refer to the PTP standard for further description of these values.

Name	Type	Description
TransportMechanism	<u>PtpTransportMechanism</u>	
LogAnnounceInterval	int	
LogSyncInterval	int	
AnnounceReceiptTimeout	int	
LogMinPeerDelayReqInterval	int	

Method: SetPtpPowerSystemsProfileSettings**Description**

Sets the power systems profile PTP settings

Parameters

Name	Type	Description
config	<u>PowerSystemsProfileCo nfiguration</u>	The new power systems configuration.

Returns

A SetPtpPowerSystemsProfileSettingsResult element having the structure defined by the following table. Please refer to the PTP standard for further description of these values.

Name	Type	Description
TransportMechanism	<u>PtpTransportMechanism</u>	
LogAnnounceInterval	int	
LogSyncInterval	int	
AnnounceReceiptTimeou t	int	
LogMinPeerDelayReqInt erval	int	
LocalTimelnaccuracy	int	
EngineeredTimelnaccura cy	int	
VlanID	int	
VlanPCP	int	

Method: SetSyslogSettings**Description**

Set the syslog settings.

Parameters

Name	Type	Description
config	<u>SyslogConfiguration</u>	The new syslog configuration.

Returns

A SetSyslogSettingsResult element having the structure defined by the following table.

Name	Type	Description
LogLevel	<u>LogLevel</u>	The current log level.
LogTarget	<u>LogTarget</u>	The current log target.
Notifications	<u>PropertyState</u>	Enables all notifications globally.
RemoteHost	string	The remote syslog host.
RemotePort	int	The remote syslog port.
RemoteTransport	<u>LogTransport</u>	The transport mode of the remote log.
Smtphost	string	The SMTP server hostname or address.
Smtpport	int	The port of the SMTP server.
Smtppfrom	string	The sender of the notifications.
Mailto	string	The recipient of mail notifications.
PtpDooSource	<u>PropertyState</u>	Enables or disables the PTP logs.
KernelSource	<u>PropertyState</u>	Enables or disables the kernel logs.
DatasyncSource	<u>PropertyState</u>	Enables or disables the clock logs.
ClockUnlockNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when the clock loses the lock.
ClockLockNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when the clock is locked to a grandmaster.
ClockLockingNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when the clock is locking to a grandmaster.
ClockInitNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when the clock is initializing.
ClockHoldoverNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when the clock goes into holdover mode.
PtpSlaveNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when PTP locks as a slave.
PtpUncalibratedNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when PTP is not calibrated.
PtpListeningNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when PTP goes into the listening state.
PtpFaultyNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when PTP is faulty.

Returns

Name	Type	Description
PtpDisabledNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when PTP is disabled.
ClockDSTChangeNotification	<u>PropertyState</u>	Indicates whether a notification is sent, when there was a DST change.

Method: SetSystemSettings**Description**

Set the system settings.

Parameters

Name	Type	Description
config	<u>SystemConfiguration</u>	The new system services configuration.

Returns

A SetSystemSettingsResult element having the structure defined by the following table.

Name	Type	Description
Password	string	The current password. Can be set in clear text, but can only be received as a hashed string similar as in a shadow file.
Login	<u>PropertyState</u>	Indicating whether a login/password is required to access the device status and/or configuration.
PtpDoo	<u>PropertyState</u>	Indicating whether the PTP daemon is running.
OMFlite	<u>PropertyState</u>	Indicating wheter the OMICRON Find daemon is running.
Avahi	<u>PropertyState</u>	Indicating whether the Zeroconf daemon is running.
VSFTPd	<u>PropertyState</u>	Indicating whether the FTP daemon is running.
TFTPd	<u>PropertyState</u>	Indicating whether the TFTP daemon is running.

Method: Status**Description**

Returns "OK" if the service connection is working. This method is to check the service connection.

Parameters

Name	Type	Description
parameters	anyType	Empty (no parameters required).

Returns

A StatusResponse element having the structure defined by the following table.

Name	Type	Description
StatusResult	string	String with the value "OK".

Complex Types: Api

Complex Types

Name	Description
<u>ArrayOfLogEntry</u>	Contains multiple LogEntry objects.
<u>ArrayOfOutputConfiguration</u>	Contains multiple OutputConfiguration objects.
<u>ArrayOfTimezoneInfo</u>	
<u>DeviceInformation</u>	Provides general information about the device, e.g. the software version.
<u>DeviceStatus</u>	Provides information on the device status.
<u>E2EProfileConfiguration</u>	Please refer to the PTP standard for further description of these values.
<u>GeneralConfiguration</u>	Hold some general configuration options.
<u>GeneralNetworkSettings</u>	Provides information on the general network settings of the device.
<u>GeneralPtpSettings</u>	Please refer to the PTP standard for further description of these values.
<u>HttpConfiguration</u>	Provides information on the web server configuration of the device.
<u>IPv4Configuration</u>	Provides information about the IPv4 configuration of the device.
<u>IPv6Configuration</u>	Provides information about the IPv6 configuration of the device.
<u>IrigbConfiguration</u>	Providing information on the IRIG-B configuration of an output.
<u>LogEntry</u>	Providing information of one log entry.
<u>NetworkConfiguration</u>	Providing information on the network configuration of the device.
<u>NetworkInformation</u>	Providing information on the current network configuration of the device.
<u>OutputConfiguration</u>	Providing information on the configuration of an output.
<u>P2PProfileConfiguration</u>	Please refer to the PTP standard for further description of these values.
<u>PowerSystemsProfileConfiguration</u>	Please refer to the PTP standard for further description of these values.
<u>PpxConfiguration</u>	Providing information on the PPX configuration of an output.
<u>PtpConfiguration</u>	Providing information on the PTP configuration of the device.
<u>PtpStatus</u>	Please refer to the PTP standard for further description of these values.
<u>SyslogConfiguration</u>	Providing information on the syslog configuration of the device.
<u>SystemConfiguration</u>	Providing information on the system and daemon configuration of the device.
<u>TimezoneInfo</u>	

Complex Type: ArrayOfLogEntry**Description**

Contains multiple LogEntry objects.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
LogEntry	<u>LogEntry</u>	0..*	Array of LogEntry objects.

Complex Type: ArrayOfOutputConfiguration**Description**

Contains multiple OutputConfiguration objects.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
OutputConfiguration	<u>OutputConfiguration</u>	0..*	Providing information on the configuration of an output.

Complex Type: ArrayOfTimezoneInfo**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
TimezoneInfo	<u>TimezoneInfo</u>	0..*	

Complex Type: DeviceInformation

Description

Provides general information about the device, e.g. the software version.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Product	string	1..1	The complete product name. E.g. TICRO 100.
SerialNumber	string	1..1	The serial number of the device.
SoftwareVersion	string	1..1	The version of the currently installed software.
KernelVersion	string	1..1	The kernel version of the base system running on the device.
HardwareRevision	string	1..1	The hardware revision of the current device.
Uptime	string	1..1	The time the device is running since the last startup.

Complex Type: DeviceStatus**Description**

Provides information on the device status.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
CurrentInterface	string	1..1	The currently active network interface. Can be "copper" for the RJ45 connection or "fiber" for the LC connection.
ClockStatus	string	1..1	The current status of the clock. Can be "Initializing", "Locking", "Locked", "Unlocked" or "Holdover".
TuningValue	float	1..1	The percentage of the OCXO tuning value. Should be as near as possible to 50% for a new TICRO 100.
Output1Active	boolean	1..1	This value is "true" if output number 1 is active.
Output2Active	boolean	1..1	This value is "true" if output number 2 is active.
Output3Active	boolean	1..1	This value is "true" if output number 3 is active.
Output4Active	boolean	1..1	This value is "true" if output number 4 is active.
Output5Active	boolean	1..1	This value is "true" if output number 5 is active.

Complex Type: E2EProfileConfiguration

Description

Please refer to the PTP standard for further description of these values.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
TransportMechanism	<u>PtpTransportMechanism</u>	1..1	
LogAnnounceInterval	int	1..1	
LogSyncInterval	int	1..1	
AnnounceReceiptTimeout	int	1..1	
LogMinDelayReqInterval	int	1..1	

Complex Type: GeneralConfiguration

Description

Hold some general configuration options.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timezone	string	1..1	The current time zone the device is configured to, e.g. "UTC" or "Europe\Vienna".
LeapSeconds	int	1..1	The offset of UTC from TAI in seconds.
OutputsActive	<u>OutputActivationMode</u>	1..1	This value defines when the outputs are active.
LocalTimeOffsetBeforeChange	int	1..1	The offset of the local time from UTC in minutes before the DST change.
LocalTimeDstChangeDateTime	string	1..1	The time of the next DST change. The format is yyyy-mm-ddThh:MM:ss±hh:mm, e.g. 2013-11-19T12:56:50+00:00.
LocalTimeOffsetAfterChange	int	1..1	The offset of the local time from UTC in minutes after the DST change.

Complex Type: GeneralNetworkSettings

Description

Provides information on the general network settings of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Hostname	string	1..1	The host name of the device.
Domain	string	1..1	The domain the device is in.
OmFind	<u>PropertyState</u>	1..1	Indicating whether the OMICRON Device Browser is allowed to change the network settings of the device.
DefaultPort	<u>NetworkPort</u>	1..1	The network port to be used.

Complex Type: GeneralPtpSettings**Description**

Please refer to the PTP standard for further description of these values.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Mode	<u>PtpMode</u>	1..1	
UserDescription	string	1..1	
DomainNumber	int	1..1	
MaxGrandmasterTimeInaccuracy	<u>PtpAccuracy</u>	1..1	
IPv6MulticastAddress	<u>IPv6MulticastType</u>	1..1	

Complex Type: HttpConfiguration

Description

Provides information on the web server configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Mode	<u>HttpMode</u>	1..1	If set to "https" only secure connections are allowed.
Authentication	<u>PropertyState</u>	1..1	If set to "enabled" a login is required before any actions can be executed.
ServiceAccess	int	1..1	A 2-bit bitmask defining which access modes are enabled. Bit 1 is the web interface and bit 2 is the SOAP service. Consequently 1 enables only the web interface, 2 only the SOAP service and 3 both.

Complex Type: IPv4Configuration

Description

Provides information about the IPv4 configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Mode	<u>IPv4Mode</u>	1..1	The mode which should be used to select the IPv4 address.
Address	string	1..1	The IPv4 address of the device.
Netmask	string	1..1	The IPv4 subnet mask of the device.
Gateway	string	1..1	The IPv4 gateway of the device.
Nameserver1	string	1..1	The first IPv4 name server.
Nameserver2	string	1..1	The second IPv4 name server.

Complex Type: IPv6Configuration

Description

Provides information about the IPv6 configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Mode	<u>IPv6Mode</u>	1..1	The mode which should be used to select the IPv6 address.
Address	string	1..1	The IPv6 address of the device.
Netmask	string	1..1	The IPv6 subnet mask of the device.
Gateway	string	1..1	The IPv6 gateway of the device.
Nameserver1	string	1..1	The first IPv6 name server.
Nameserver2	string	1..1	The second IPv6 name server.

Complex Type: IrigbConfiguration

Description

Providing information on the IRIG-B configuration of an output.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Type	int	1..1	3-bit bitmask to define the active IRIG-B extensions: Bit 1: Control Functions Bit 2: Straight binary seconds Bit 3: BCD year

Complex Type: LogEntry

Description

Providing information of one log entry.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
TimeStamp	string	1..1	The time when the log message was created.
Level	string	1..1	The log level of the log message.
Source	string	1..1	The source of the log message.
Message	string	1..1	The log message.

Complex Type: NetworkConfiguration

Description

Providing information on the network configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Hostname	string	1..1	The hostname of the device.
Domain	string	1..1	The domain the device is in.
OmFind	<u>PropertyState</u>	1..1	Enables or disables the possibility to change the network settings via the OMICRON Device Browser.
NetworkBridge	<u>PropertyState</u>	1..1	Enables or disables the network bridge between the Ethernet and USB network. Must be enabled for the TICRO 100 to allow to use the web UI or SOAP interface via USB.
DefaultPort	<u>NetworkPort</u>	1..1	The network port which will be selected by default.
IPv4Configuration	<u>IPv4Configuration</u>	1..1	The IPv4 network configuration.
IPv6Configuration	<u>IPv6Configuration</u>	1..1	The IPv6 network configuration.

Complex Type: NetworkInformation

Description

Providing information on the current network configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
IPv4Mode	string	1..1	The mode which was used to select the IPv4 address.
IPv4Address	string	1..1	The IPv4 address of the device.
IPv4SubnetMask	string	1..1	The IPv4 subnet mask of the device.
IPv4Gateway	string	1..1	The IPv4 gateway of the device.
IPv4Nameserver1	string	1..1	The first IPv4 name server.
IPv4Nameserver2	string	1..1	The second IPv4 name server.
IPv6Mode	string	1..1	The mode which was used to select the IPv6 address.
IPv6Address	string	1..1	The IPv6 address of the device.
IPv6SubnetMask	string	1..1	The IPv6 subnet mask of the device.
IPv6Gateway	string	1..1	The IPv6 gateway of the device.
IPv6LocalAddress	string	1..1	The local IPv6 address of the device.
IPv6LocalSubnetMask	string	1..1	The local IPv6 subnet mask of the device.
IPv6Nameserver1	string	1..1	The first IPv6 name server.
IPv6Nameserver2	string	1..1	The second IPv6 name server.
MacAddress	string	1..1	The MAC address of the device.
Hostname	string	1..1	The hostname of the device.
DomainName	string	1..1	The domain the device is in.
DefaultPort	string	1..1	The network port which will be selected by default.
CurrentPort	string	1..1	The currently active network interface. Can be "COPPER" for the RJ45 connection or "FIBER" for the LC connection.

Complex Type: OutputConfiguration

Description

Providing information on the configuration of an output.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Mode	int	1..1	8-bit bitmask to define the output mode: Bit 0: IRIG-B Bit 1: PPX Bit 2: DCF77 Bit 3: Modulation Bit 4: UTC Bit 5: Local Time Bit 6: RESERVED Bit 7: RESERVED Only one of the first three bits is allowed to be used at the same time. Same for bit 4 & 5. If neither bit 4 nor bit 5 is set TAI is used. Bit 3 is only used in combination with bit 0 (modulated IRIG-B).
FriendlyName	string	1..1	A formatted version of the output configuration which can be displayed to a user. This field is read-only.
Mute	boolean	1..1	If this value is true, the output is not active.
TriggerTime	string	1..1	The time configured for a trigger. Only active if the mode is off (bit 0 to 2 set to 0) or PPX. The format is yyyy-mm-ddThh:MM:ss±hh:mm, e.g. 2013-11-19T12:56:50+00:00. Attention: This is UTC time - see remarks for details.
IrigbConfiguration	IrigbConfiguration	1..1	The IRIG-B configuration of this output.
PpxConfiguration	PpxConfiguration	1..1	The PPX configuration.
Id	int	1..1	The Id of the output this configuration belongs to.
Interface	string	1..1	The interface type of this output. This field is read-only.

Remarks

The trigger time must be supplied as a UTC time and the actual trigger will happen at that UTC time independent of the selected time base (bit 4 & 5 of the mode). For example if the mode is local time and the time zone is set to UTC+02:00 a set trigger value of "2014-02-10T15:00:00+00:00" will raise a trigger on the 10th of February 2014 at 17:00 local time and not 15:00. In case of TAI the UTC offset will be added, so with a current offset of 35s the time for a trigger on the same day at 17:00 TAI needs to be "2014-02-10T16:59:25+00:00".

Complex Type: P2PProfileConfiguration

Description

Please refer to the PTP standard for further description of these values.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
TransportMechanism	<u>PtpTransportMechanism</u>	1..1	
LogAnnounceInterval	int	1..1	
LogSyncInterval	int	1..1	
AnnounceReceiptTimeout	int	1..1	
LogMinPeerDelayReqInterval	int	1..1	

Complex Type: PowerSystemsProfileConfiguration

Description

Please refer to the PTP standard for further description of these values.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
TransportMechanism	<u>PtpTransportMechanism</u>	1..1	
LogAnnounceInterval	int	1..1	
LogSyncInterval	int	1..1	
AnnounceReceiptTimeout	int	1..1	
LogMinPeerDelayReqInterval	int	1..1	
LocalTimeInaccuracy	int	1..1	
EngineeredTimeInaccuracy	int	1..1	
VlanID	int	1..1	
VlanPCP	int	1..1	

Complex Type: PpxConfiguration

Description

Providing information on the PPX configuration of an output.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Pps	int	1..1	Pulses per second. Valid values: 0 = Custom 1 = 1 PPS 2 = 10 PPS 4 = 100 PPS 8 = 1000 PPS
Ppm	int	1..1	Period of custom pulses in seconds.
PulseWidth	int	1..1	Pulse width of the pulse in nano seconds.
PulseSlope	int	1..1	Defines which flank of the pulse is used as a reference. 0 means the falling flank and 1 the rising flank.


Complex Type: PtpConfiguration

Description

Providing information on the PTP configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Mode	<u>PtpMode</u>	1..1	The currently selected PTP profile.
UserDescription	string	1..1	The PTP user description.
DomainNumber	int	1..1	The PTP domain number.
MaxGrandmasterTimeInaccuracy	<u>PtpAccuracy</u>	1..1	The maximal allowed inaccuracy of a grandmaster to be accepted by the device.
IPv6MulticastAddress	<u>IPv6MulticastType</u>	1..1	The address of the IPv6 multicast.
E2EDefaultProfileConfiguration	<u>E2EProfileConfiguration</u>	1..1	The configuration of the default E2E profile.
P2PDefaultProfileConfiguration	<u>P2PProfileConfiguration</u>	1..1	The configuration of the default P2P profile.
PowerSystemsProfileConfiguration	<u>PowerSystemsProfileConfiguration</u>	1..1	The configuration of the power systems profile.

Complex Type: PtpStatus

Description

Please refer to the PTP standard for further description of these values.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
PortState	string	1..1	
DelayMechanism	string	1..1	
SyncInterval	int	1..1	
AnnounceInterval	int	1..1	
AnnounceReceiptTimeout	int	1..1	
MinimumDelayRequestInterval	int	1..1	
MinimumPDelayRequestInterval	int	1..1	
PeerMeanPathDelay	int	1..1	
DelayAsymmetry	int	1..1	
ProfileId	string	1..1	
NetworkProtocol	string	1..1	
VlanId	int	1..1	
VlanPriority	int	1..1	
TwoStep	boolean	1..1	
ClockIdentity	string	1..1	
ClockClass	string	1..1	
ClockAccuracy	string	1..1	
ClockVariance	int	1..1	
Priority1	int	1..1	
Priority2	int	1..1	
DomainNumber	int	1..1	
SlaveOnly	boolean	1..1	
GrandmasterId	int	1..1	
LocalTimeInaccuracy	int	1..1	
NetworkTimeInaccuracy	int	1..1	
PortIdentity	string	1..1	
GrandmasterIdentity	string	1..1	

Content Model

Component	Type	Occurs	Description
GrandmasterClockClass	string	1..1	
GrandmasterClockAccuracy	string	1..1	
GrandmasterClockVariance	int	1..1	
GrandmasterPriority1	int	1..1	
GrandmasterPriority2	int	1..1	
GrandmasterPowerId	int	1..1	
GrandmasterTimeInaccuracy	int	1..1	
UtcOffset	int	1..1	
UtcOffsetValid	boolean	1..1	
Leap59	boolean	1..1	
Leap61	boolean	1..1	
TimeTraceable	boolean	1..1	
FrequencyTraceable	boolean	1..1	
PtpTimeScale	boolean	1..1	
TimeSource	string	1..1	

Complex Type: SyslogConfiguration

Description

Providing information on the syslog configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
LogLevel	<u>LogLevel</u>	1..1	The current log level.
LogTarget	<u>LogTarget</u>	1..1	The current log target.
Notifications	<u>PropertyState</u>	1..1	Enables all notifications globally.
RemoteHost	string	1..1	The remote syslog host.
RemotePort	int	1..1	The remote syslog port.
RemoteTransport	<u>LogTransport</u>	1..1	The transport mode of the remote log.
Smtphost	string	1..1	The SMTP server hostname or address.
Smtpport	int	1..1	The port of the SMTP server.
Smtppfrom	string	1..1	The sender of the notifications.
Mailto	string	1..1	The recipient of mail notifications.
Ptpdoosource	<u>PropertyState</u>	1..1	Enables or disables the PTP logs.
KernelSource	<u>PropertyState</u>	1..1	Enables or disables the kernel logs.
DatasyncSource	<u>PropertyState</u>	1..1	Enables or disables the clock logs.
ClockUnlockNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when the clock loses the lock.
ClockLockNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when the clock is locked to a grandmaster.
ClockLockingNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when the clock is locking to a grandmaster.
ClockInitNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when the clock is initializing.
ClockHoldoverNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when the clock goes into holdover mode.
PtpSlaveNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when PTP locks as a slave.
PtpUncalibratedNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when PTP is not calibrated.
PtpListeningNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when PTP goes into the listening state.
PtpFaultyNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when PTP is faulty.
PtpDisabledNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when PTP is disabled.
ClockDSTChangeNotification	<u>PropertyState</u>	1..1	Indicates whether a notification is sent, when there was a DST change.

Complex Type: SystemConfiguration

Description

Providing information on the system and daemon configuration of the device.

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Password	string	1..1	The current password. Can be set in clear text, but can only be received as a hashed string similar as in a shadow file.
Login	<u>PropertyState</u>	1..1	Indicating whether a login/password is required to access the device status and/or configuration.
PtpDoo	<u>PropertyState</u>	1..1	Indicating whether the PTP daemon is running.
OMFlite	<u>PropertyState</u>	1..1	Indicating wheter the OMICRON Find daemon is running.
Avahi	<u>PropertyState</u>	1..1	Indicating whether the Zeroconf daemon is running.
VSFTPD	<u>PropertyState</u>	1..1	Indicating whether the FTP daemon is running.
TFTPD	<u>PropertyState</u>	1..1	Indicating whether the TFTP daemon is running.

Complex Type: TimezoneInfo**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Zone	string	1..1	The name of the time zone. This value can be saved as a current time zone.
DisplayName	string	1..1	Nicly formated string of the time zone, which can be used to display to the user.

Simple Types: Api

Simple Types

Name	Description
<u>HttpMode</u>	Defines the modes in which the web server is accessible.
<u>IPv4Mode</u>	Defines how the IPv4 addresses are acquired.
<u>IPv6Mode</u>	Defines how the IPv6 addresses are acquired.
<u>IPv6MulticastType</u>	
<u>LogLevel</u>	Defines the level required for log messages to be saved.
<u>LogTarget</u>	Defines where log messages are saved.
<u>LogTransport</u>	Defines how log messages are sent to a remote log server.
<u>NetworkPort</u>	Defines which network port should be used.
<u>OutputActivationMode</u>	Defines under which conditions the outputs should be active.
<u>PropertyState</u>	Defines if a property is enabled or disabled.
<u>PtpAccuracy</u>	Defines the accuracy a grandmaster clock needs to be accepted as a master.
<u>PtpMode</u>	Defines which PTP profile is used.
<u>PtpTransportMechanism</u>	Please refer to the PTP standard for further description of these values.

Simple Type: `HttpMode`

Description

Defines the modes in which the web server is accessible.

Derived By

Restricting string

Enumeration

Value	Description
Http	This mode allows HTTP and HTTPS connections.
Https	This mode only allows HTTPS connections.

Simple Type: IPv4Mode**Description**

Defines how the IPv4 addresses are acquired.

Derived By

Restricting string

Enumeration

Value	Description
Off	IPv4 is turned off completely.
Static	Use the supplied IPv4 addresses.
Dhcp	Request the IPv4 addresses from a DHCP server or uses auto-conf if none is found.

Simple Type: IPv6Mode**Description**

Defines how the IPv6 addresses are acquired.

Derived By

Restricting string

Enumeration

Value	Description
Off	IPv6 is turned off completely.
Static	Use the supplied IPv6 addresses.
Autoconf	Use auto-conf to assign IPv6 addresses.
AutoconfManualDns	Use auto-conf to assign IPv6 addresses, but assign the DNS servers manually.

Simple Type: IPv6MulticastType**Derived By**

Restricting string

Enumeration

Value	Description
0x1	Interface-Local scope
0x2	Link-Local scope
0x3	reserved
0x4	Admin-Local scope
0x5	Site-Local scope
0x6	(unassigned)
0x7	(unassigned)
0x8	Organization-Local scope
0x9	(unassigned)
0xA	(unassigned)
0xB	(unassigned)
0xC	(unassigned)
0xD	(unassigned)
0xE	Global scope
0xF	reserved

Simple Type: LogLevel**Description**

Defines the level required for log messages to be saved.

Derived By

Restricting string

Enumeration

Value	Description
Debug	All the below plus debug messages.
Info	All the below plus informational messages.
Warning	All the below plus warnings.
Error	All the below plus errors.
Critical	Only critical errors.

Simple Type: LogTarget

Description

Defines where log messages are saved.

Derived By

Restricting string

Enumeration

Value	Description
Local	Only log to the local log file.
IPv4	Log locally and to a remote IPv4 syslog server.
IPv6	Log locally and to a remote IPv6 syslog server.

Simple Type: LogTransport

Description

Defines how log messages are sent to a remote log server.

Derived By

Restricting string

Enumeration

Value	Description
Tcp	Send the log messages via TCP.
Udp	Send the log messages via UDP.

Simple Type: NetworkPort

Description

Defines which network port should be used.

Derived By

Restricting string

Enumeration

Value	Description
Auto	Use the port which has connection. If both or no network ports are connected during boot up copper will be used.
Copper	Use the RJ45 connector.
Fibre	Use the LC optical connector.

Simple Type: OutputActivationMode**Description**

Defines under which conditions the outputs should be active.

Derived By

Restricting string

Enumeration

Value	Description
Always	The outputs are always active.
Sync	The outputs are only active if the device has a valid PTP lock.
SyncOrHoldover	The outputs are only active if the device has a valid PTP lock or is in holdover mode.

Remarks

Attention: If the output mode is set to "Always" the device will send out an invalid time until the time is set manually or a PTP lock is acquired.

Simple Type: PropertyState

Description

Defines if a property is enabled or disabled.

Derived By

Restricting string

Enumeration

Value	Description
Enabled	
Disabled	

Simple Type: PtpAccuracy

Description

Defines the accuracy a grandmaster clock needs to be accepted as a master.

Derived By

Restricting string

Enumeration

Value	Description
Within25ns	A grandmaster clock with a maximal inaccuracy up to 25ns is accepted to be locked to.
Within100ns	A grandmaster clock with a maximal inaccuracy up to 100ns is accepted to be locked to.
Within250ns	A grandmaster clock with a maximal inaccuracy up to 250ns is accepted to be locked to.
Within1us	A grandmaster clock with a maximal inaccuracy up to 1 μ s is accepted to be locked to.
Within2p5us	A grandmaster clock with a maximal inaccuracy up to 2.5 μ s is accepted to be locked to.
Within10us	A grandmaster clock with a maximal inaccuracy up to 10 μ s is accepted to be locked to.
Within100us	A grandmaster clock with a maximal inaccuracy up to 100 μ s is accepted to be locked to.
Within250us	A grandmaster clock with a maximal inaccuracy up to 250 μ s is accepted to be locked to.
Within1ms	A grandmaster clock with a maximal inaccuracy up to 1ms is accepted to be locked to.
Within2p5ms	A grandmaster clock with a maximal inaccuracy up to 2.5ms is accepted to be locked to.
Within10ms	A grandmaster clock with a maximal inaccuracy up to 10ms is accepted to be locked to.
Within25ms	A grandmaster clock with a maximal inaccuracy up to 25ms is accepted to be locked to.
Within100ms	A grandmaster clock with a maximal inaccuracy up to 100ms is accepted to be locked to.
Within250ms	A grandmaster clock with a maximal inaccuracy up to 250ms is accepted to be locked to.
Within1s	A grandmaster clock with a maximal inaccuracy up to 1s is accepted to be locked to.
Within10s	A grandmaster clock with a maximal inaccuracy up to 10s is accepted to be locked to.
Greater10s	A grandmaster clock with a maximal inaccuracy greater than 10s is accepted to be locked to.
Unknown	All grandmaster clocks are accepted.

Simple Type: PtpMode

Description

Defines which PTP profile is used.

Derived By

Restricting string

Enumeration

Value	Description
DefaultE2E	Default End to End Profile
DefaultP2P	Default Peer to Peer Profile
PowerSystems	Power Profile

Simple Type: PtpTransportMechanism

Description

Please refer to the PTP standard for further description of these values.

Derived By

Restricting string

Enumeration

Value	Description
UdpIPv4	
UdpIPv6	
IEEE802_3	

JSON status updates

The JSON status files can be requested at a much higher frequency (more than once per second) than the other API calls. This can be used for example to update the time or PTP status every 500ms.

Device Status

The device status JSON file can be requested at [HTTP/HTTPS]://[DeviceIP/Hostname]/ajax/deviceStatus.php and has the following structure:

Name	Type	Description
status	string	Always the string "ok". This is just to check the valid connection. Used by the web interface to check the device connection.
device:	object	
- interface	string	The currently active network interface. Can be "copper" for the RJ45 connection or "fiber" for the LC connection.
- status	string	The current status of the clock. Can be "Initializing", "Locking", "Locked", "Unlocked" or "Holdover".
- tuningValue	string	The percentage of the OCXO tuning value. Should be as near as possible to 50% for a new TICRO 100.
outputs:	array	Array containing an object for each of the 5 outputs.
- id	int	The id of the output - starts at 0.
- active	int	0 or 1, depending whether the output is currently active.

General Status

The general status JSON file can be requested at [HTTP/HTTPS]://[DeviceIP/Hostname]/ajax/generalStatus.php and has the following structure:

Name	Type	Description
general:		
- dateTime	string	The current time on the device. The format is yyyy-mm-ddThh:MM:ss±hh:mm, e.g. 2013-11-19T12:56:50+00:00.
- productName	string	The complete product name. E.g. TICRO 100.
- serialNumber	string	The serial number of the device.
- softwareVersion	string	The version of the currently installed software.
- kernelVersion	string	The kernel version of the base system running on the device.
- hardwareRevision	string	The hardware revision of the current device.
- uptime	string	The time the device is running since the last startup.

Network Status

The network status JSON file can be requested at [HTTP/HTTPS]://[DeviceIP/Hostname]/ajax/networkStatus.php and has the following structure:

Name	Type	Description
network:		
- IPv4Address	string	The IPv4 address of the device.
- IPv6Address	string	The IPv6 address of the device.
- macAddress	string	The MAC address of the device.
- hostname	string	The hostname of the device.
- domainName	string	The domain the device is in.

PTP Status

The PTP status JSON file can be requested at [\[HTTP/HTTPS\]://\[DeviceIP/Hostname\]/ajax/ptpStatus.php](http://[DeviceIP/Hostname]/ajax/ptpStatus.php).

Please refer to the PTP standard for further description of these values.

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