

# HOP Big Ass Fan SOFT Interface for RTI

## 1. Overview

This RTI driver provides a complex interface for controlling Haiku Big Ass Fans and Lights. Using this driver with your RTI automation system will bring complete 2-way control of your beloved fans via any RTI interface whether it is touchscreen, remote or mobile app you will be able to adjust fan and lights from single interface.

Driver is using new API and supports for all IP controllable fans (Haiku - firmware version 3+, es6 and i6 fans)

## 2. Features

### Fan

- 2-way control/feedback
- All Speeds Control
- Auto Mode Control
- Whoosh Control
- Direction Control
- Occupancy Control
- Eco Control

### Light

- 2-way control/feedback
- Light Level Control
- Auto Mode Control
- Occupancy Control

### Sensor

- Temperature in celsius
- Temperature in fahrenheit

## 3. Fan Settings

There are no special settings needed on the fan side, however driver controls fans by IP address of each driver hence these should be static or reserved on DHCP server.

## 2. Installation

Save HaikuController.rtidriver file into Integration Designer (APEX) driver folder.

Default location is: "Documents\Integration Designer\Control Drivers"

Save source bundle file into Integration Designer (APEX) source bundle folder.

Default location is: "Documents\Integration Designer\Templates"

Add fan. NOTE driver does not provide separate light source from version 1.03+, all functionality including light control is now bound under Fan source. Maximum of 10 sources is supported in single instance. Simply load/add another instance of the driver should you need to control more than 10 fans.

## 3. Driver Configuration

### Add Licence

**Project name** - This should be a brief description or identifier of the project where the driver is used.

**Licence key** - Licence key provided after driver purchase, driver comes with three day trial which gets automatically activated if no licence key is entered.

Licence status is exposed via driver variables.

### Fan Source Configuration

Fan source represents one Haiku Big Ass fan and has the following configuration properties.

**Enabled** - Driver will try to connect to this device if enabled otherwise connection to this device will be ignored..

**Fan Name** - Name of the driver which will name macro categories related to this fan.

**IP Address** - IP address of the fan.

**TCP Port** - TCP port fan listens for new connections. Default 31415.

### System Functions (FAN)

System Function	Action	Button TAG	Description
Fan Mode	On	Fan On	Turn fan on.
Fan Mode	Off	Fan Off	Turn fan off.
Fan Mode	Auto	Fan Auto	Turn fan on in auto mode.
Fan Mode	Toggle	Fan Toggle	Toggles between on and off.
Set Speed Percent	Speed	Fan Speed	Sets fan speed in percent 0-100%
Set Speed	Speed	Fan Speed 1	Set fan to preset one speed.
Set Speed	Speed	Fan Speed 2	Set fan to preset two speed.
Set Speed	Speed	Fan Speed 3	Set fan to preset three speed.
Set Speed	Speed	Fan Speed 4	Set fan to preset four speed.
Set Speed	Speed	Fan Speed 5	Set fan to preset five speed.
Set Speed	Speed	Fan Speed 6	Set fan to preset six speed.
Set Speed	Speed	Fan Speed 7	Set fan to preset seven speed.
Change Speed	Direction	Speed Up	Increase preset speed by one.
Change Speed	Direction	Speed Down	Decrease preset speed by one.
Set Whoosh	Whoosh	Whoosh On	Enable whoosh mode.
Set Whoosh	Whoosh	Whoosh Off	Disable whoosh mode.

<b>System Function</b>	<b>Action</b>	<b>Button TAG</b>	<b>Description</b>
Set Whoosh	Whoosh	Whoosh Toggle	Toggles whoosh mode between On/Off
Set Direction	Direction	Direction Forward	Set fan forward spin direction.
Set Direction	Direction	Direction Reverse	Set fan reverse direction.
Set Direction	Direction	Direction Toggle	Toggle fan spin direction between forward/reverse.
Set Eco Mode	Mode	Eco On	Enable eco mode.
Set Eco Mode	Mode	Eco Off	Disable eco mode.
Set Eco Mode	Mode	Eco Toggle	Toggle eco mode enabled/disabled.
Set Occupancy	Mode	Occupancy On	Enable occupancy mode.
Set Occupancy	Mode	Occupancy Off	Disable occupancy mode.
Set Occupancy	Mode	Occupancy Toggle	Toggle occupancy mode enabled/disabled.

### System Functions (LIGHT)

System Function	Action	Button TAG	Description
Light Mode	Mode	Light On	Turn light on.
Light Mode	Mode	Light Off	Turn light off.
Light Mode	Mode	Light Auto	Turn light on in auto mode.
Light Mode	Mode	Light Toggle	Toggle mode between On/Off
Set Level	Level	Light Preset 1	Set light to preset 1
Set Level	Level	Light Preset 2	Set light to preset 2
Set Level	Level	Light Preset 3	Set light to preset 3
Set Level	Level	Light Preset 4	Set light to preset 4
Set Level	Level	Light Preset 5	Set light to preset 5
Set Level	Level	Light Preset 6	Set light to preset 6
Set Level	Level	Light Preset 7	Set light to preset 7
Set Level	Level	Light Preset 8	Set light to preset 8
Set Level	Level	Light Preset 9	Set light to preset 9
Set Level	Level	Light Preset 10	Set light to preset 10
Set Level	Level	Light Preset 11	Set light to preset 11
Set Level	Level	Light Preset 12	Set light to preset 12

<b>System Function</b>	<b>Action</b>	<b>Button TAG</b>	<b>Description</b>
Set Level	Level	Light Preset 13	Set light to preset 13
Set Level	Level	Light Preset 14	Set light to preset 14
Set Level	Level	Light Preset 15	Set light to preset 15
Set Level	Level	Light Preset 16	Set light to preset 16
Set Level Percent	Level	Light Level	Set light brightness in percent 0-100%
Set Color Temperature	Temperature	Light Color	Set light color temperature 2200-6500K
Set Occupancy	Mode	Light Occupancy On	Set light occupancy mode on.
Set Occupancy	Mode	Light Occupancy Off	Set light occupancy mode off.
Set Occupancy	Mode	Light Occupancy Toggle	Toggle light occupancy mode enabled/disabled

### System Variables (FAN)

Variable	Type	Button TAG	Description
Fan Name	string	Fan Name	Name of the fan retrieved from device(not from driver config)
Fan Mode On	boolean	Fan Toggle	True if mode=On,Auto
Current Preset	integer	Fan Preset	Current fan speed preset active
Speed Percent	integer	Fan Speed	Current fan speed in percent 0-100%
Speed 1 Active	boolean	Fan Speed 1	True if speed=1
Speed 2 Active	boolean	Fan Speed 2	True if speed=2
Speed 3 Active	boolean	Fan Speed 3	True if speed=3
Speed 4 Active	boolean	Fan Speed 4	True if speed=4
Speed 5 Active	boolean	Fan Speed 5	True if speed=5
Speed 6 Active	boolean	Fan Speed 6	True if speed=6
Speed 7 Active	boolean	Fan Speed 7	True if speed=7
Direction	string	Direction Toggle	Forward/Reverse
Whoosh Active	boolean	Whoosh Toggle	True if whoosh active
Eco Mode Active	boolean	Eco Toggle	True if eco active
Fan Auto Active	boolean	Fan Auto	True if in auto mode
Fan Occupancy Active	boolean	Occupancy Toggle	True if occupancy active
Connected	boolean	Fan Connected	True if connected to device.

### System Variables (LIGHT)

Variable	Type	Button TAG	Description
Light Power On	boolean	Light Toggle	True if mode=On,Auto
Light Current Preset	integer	Light Preset	Current light preset active 0-16
Light Current Level Percent	integer	Light Level	Current light level in percent 0-100%
Light Current Color Temperature	integer	Light Color	Current light color temperature 2200-6500K
Light Occupancy Active	boolean	Light Occupancy Toggle	True if light occupancy is active
Light Preset 1 Active	boolean	Light Preset 1	True if light preset 1 is active
Light Preset 2 Active	boolean	Light Preset 2	True if light preset 2 is active
Light Preset 3 Active	boolean	Light Preset 3	True if light preset 3 is active
Light Preset 4 Active	boolean	Light Preset 4	True if light preset 4 is active
Light Preset 5 Active	boolean	Light Preset 5	True if light preset 5 is active
Light Preset 6 Active	boolean	Light Preset 6	True if light preset 6 is active
Light Preset 7 Active	boolean	Light Preset 7	True if light preset 7 is active
Light Preset 8 Active	boolean	Light Preset 8	True if light preset 8 is active
Light Preset 9 Active	boolean	Light Preset 9	True if light preset 9 is active
Light Preset 10 Active	boolean	Light Preset 10	True if light preset 10 is active

Variable	Type	Button TAG	Description
Light Preset 11 Active	boolean	Light Preset 11	True if light preset 11 is active
Light Preset 12 Active	boolean	Light Preset 12	True if light preset 12 is active
Light Preset 13 Active	boolean	Light Preset 13	True if light preset 13 is active
Light Preset 14 Active	boolean	Light Preset 14	True if light preset 14 is active
Light Preset 15 Active	boolean	Light Preset 15	True if light preset 15 is active
Light Preset 16 Active	boolean	Light Preset 16	True if light preset 16 is active
Light Auto Active	boolean	Light Auto	True if light auto mode is active

### System Variables (SENSOR)

Variable	Type	Button TAG	Description
Temperature Celsius	integer	Temperature C	Ambient Temperature in Celsius (if supported)
Temperature Fahrenheit	integer	Temperature F	Ambient Temperature in Fahrenheit (if supported)

### System Variables (DRIVER)

Variable	Type	Button TAG	Description
Licence Status	string		Status of licence (valid/not valid)

### System Events (FAN)

Event	Description
Turns On	Fired when fan turns on.
Turns Off	Fired when fan turns off.
Turns Auto	Fired when fan turns auto.
Direction Forward	Fired when direction changes to forward.
Direction Reverse	Fired when direction changes to reverse.
Speed 1 Active	Fired when speed 1 becomes active.
Speed 2 Active	Fired when speed 2 becomes active.
Speed 3 Active	Fired when speed 3 becomes active.
Speed 4 Active	Fired when speed 4 becomes active.
Speed 5 Active	Fired when speed 5 becomes active.
Speed 6 Active	Fired when speed 6 becomes active.
Speed 7 Active	Fired when speed 7 becomes active.

### System Events (LIGHT)

Light Turns On	Fired when light turns on.
Light Turns Off	Fired when light turns off.
Light Turns Auto	Fired when light turns auto.

### System Events (CONNECTION)

Connected	Fired when driver connects to device.
Disconnected	Fired when driver disconnects from device.(FAULT)

