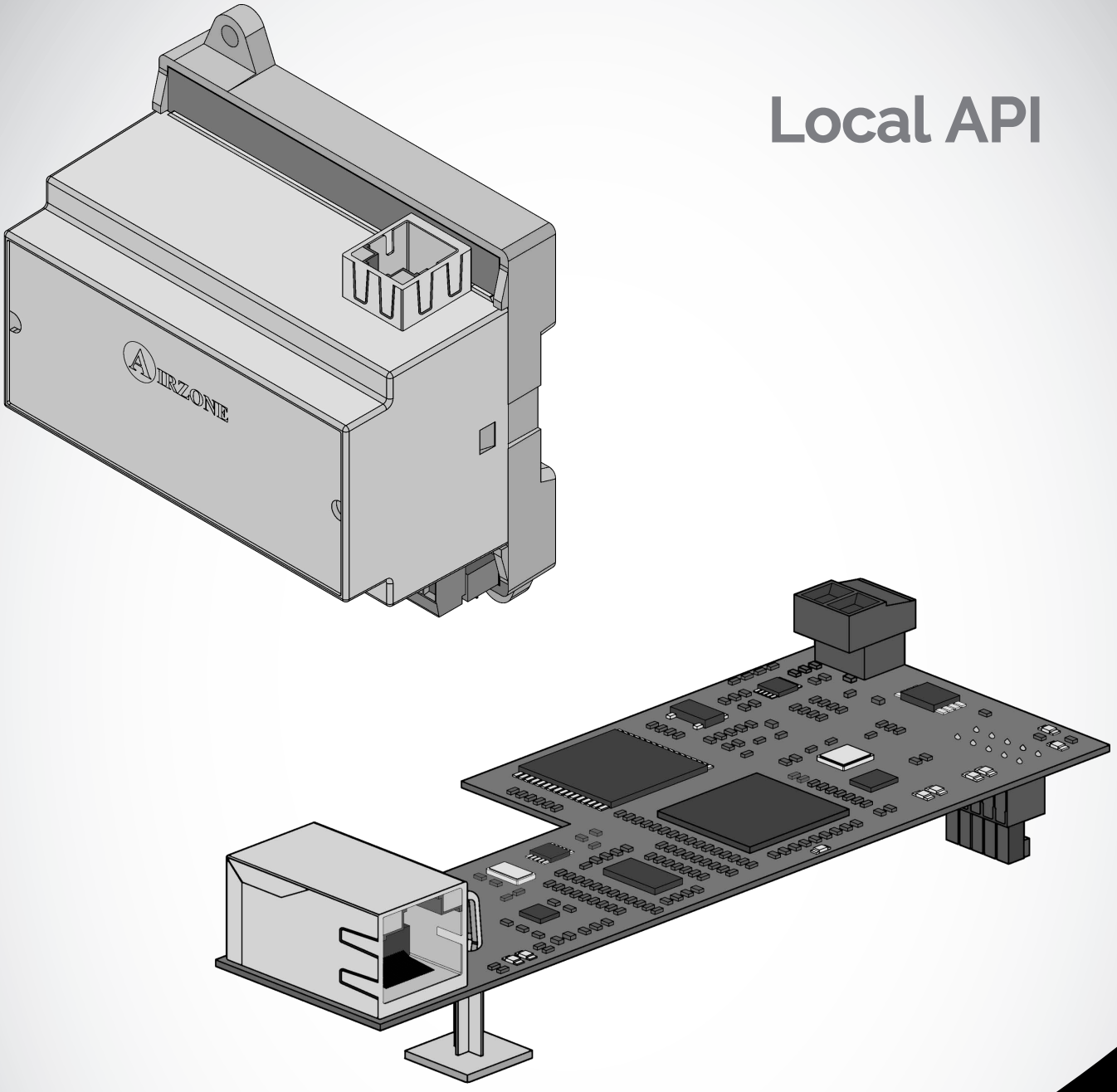
Integration manual

Local API



AIRZONE

AIRZONE

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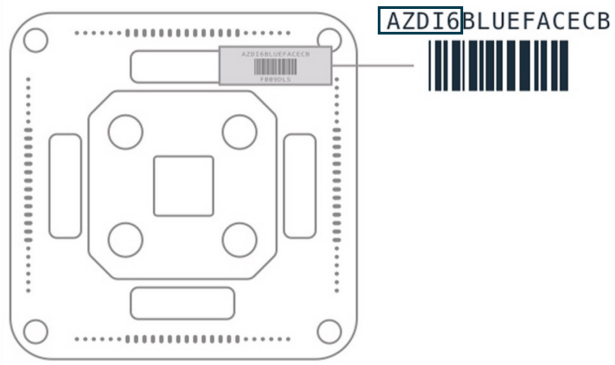
INTEGRATION WITH AIRZONE SYSTEMS

Important: *Webserver Airzone Cloud Ethernet (AZX6WEMSCLOUDC or AZX6WSCLOUDDINC) must have the 3.1.6 version or higher.*

SYSTEM IDENTIFICATION

To start the configuration process, it is necessary to identify the system, to do this, remove the Blueface thermostat from its base and check the code printed on the label located on the back of the thermostat.



Depending on the code printed on the label the system will be configured in different ways, for further information, please refer to the documentation related to each system:

Identification		Related documentation	
AZCE6	Flexa 3.0 / Innobus Pro6 System	*Quick Guide*	*Installation Manual*
AZDI6	Acuazone / Innobus Pro32 System	*Quick Guide*	*Installation Manual*
AZRA6	RadianT365 System	*Quick Guide*	*Installation Manual*
AZVAF	VAF System	*Quick Guide*	*Installation Manual*
AZZBS	ZBS System	*Quick Guide*	*Installation Manual*

REQUESTS WORKFLOW

Requests are made pointed to an address, port and application.

e.g http://XXX.XXX.XXX.XX:3000/api/v1/xxx

Where XXX.XXX.XXX.XX is the IP address and the port is 3000

The Airzone system allows the control of the zones and parameters via PUT and POST requests.

POST method: extract system data.

PUT method: modify system data.

POST METHOD

The **POST** method is used to extract the data of a specified zone.

This method is used as below:

POST http://XXX.XXX.XXX.XX:3000/api/v1/hvac

Where XXX.XXX.XXX.XX is the IP address.

The port by default is 3000.

The application where is pointed is api/v1/hvac.

With the following body

{

"systemID": n (system number),

"zoneID": m (zone number)

}

POST request parameters

If the **POST** method is correctly requested the response is indicated with code **200** and will give back the following parameters:

Parameters	Value type	Description	Available values	
SystemID	Integer	System to consult	1 to 32	
ZoneID	Integer	Zone to consult	1 to 32	
			0	All zones
name	String	Name of zone	*Name of zone*	
on	Boolean	On/Off	true	
			false	
setpoint	Integer	Setpoint temperature	15 to 30 for ºC	
			59 to 86 for ºF	
roomtemp	Integer	Room temperature	Number	
maxtemp	Integer	Upper limit setpoint temperature	Number	
mintemp	Integer	Lower limit setpoint temperature	Number	
coolsetpoint*	Integer	Setpoint temperature for cooling mode	Number	
coolmaxtemp*	Integer	Upper limit cooling temperature	Number	
coolmintemp*	Integer	Lower limit cooling temperature	Number	
heatsetpoint*	Integer	Setpoint temperature for heating mode	Number	
heatmaxtemp*	Integer	Upper limit heating temperature	Number	
heatmintemp*	Integer	Lower limit heating temperature	Number	
modes	Array	Operation modes available in the system	1	STOP
			2	COOLING
			3	HEATING
			4	FAN
			5	DRY
			7	AUTO*
mode	Integer	Operation mode selected for the system	1	STOP
			2	COOLING
			3	HEATING
			4	FAN
			5	DRY
			7	AUTO*
speeds	Integer	Fan speeds available in the system	1 to 7 based on the installation	
			0	Auto

speed	Integer	Fan speed selected for the system	1 to 7 based on the installation	
			0	Auto
coldstages	Integer	Cooling stages available in the system / zone	1	AIR
			2	RADIANT
			3	COMBINED
coldstage	Integer	Cooling stage running	1	AIR
			2	RADIANT
			3	COMBINED
heatstages	Integer	Heating stages available in the system / zone	1	AIR
			2	RADIANT
			3	COMBINED
heatstage	Integer	Heating stage running	1	AIR
			2	RADIANT
			3	COMBINED
humidity	Integer	Relative humidity of the zone	*Number (%)*	
units	Integer	Temperature measurement units	0	CELSIUS
			1	FAHRENHEIT

**Only for VAF or ZBS Airzone systems.*

The "errors" parameter indicates error type and zone.

The "warning" parameter indicates the incidence and zone.

Parameters	Value type	Description	Available values	
errors	Array	Zone errors	3	Motorized element not connected
			4	Motorized element blocked
			5	Temperature probe – Open circuit
			6	Temperature probe – Short circuit
			7	Incompatible element
			8	Communication error
		System errors	9	Gateway-System communication error
			11	Gateway-AC Unit communication error
			13	Main Board-Control Module of Radiant Elements communication error
			14	Main Control Board-Expansion Module Communication error
			15	Energy Meter communication error
			16	Energy Meter measurement error
			C02	Main Control Board – Production Control Board communication error
			C09	Aerothermal Gateway - Production Control Board Communication Error
		warning (zone warnings)	Occupancy	
			Window	
			Anti-freezing	
			Active dew	
			Active dew protection	
			Low battery	
			Zone without thermostat	

If the **POST** request is wrong, the response is indicated with code **500** and will give back the following parameters:

Parameters	Value type	Description	Available values	
errors	Array	Error	request malformed	Wrong request format
			zoneid not provided	Zone not present in the request
			systemid not provided	System not present in the request
			zoneid out of range	Zone not valid (0 – 32)
			systemid out of range	System not valid (0 – 32)
			zoneid not available	Zone not available
			internal error	Internal error in the application
			driver not provided	The driver is not indicated in the request
			method not supported	Unsupported method

PUT METHOD

The **PUT** method is used to modify the data of a specified zone.

This method is used as below:

PUT http://XXX.XXX.XXX.XX:3000/api/v1/hvac

Where XXX.XXX.XXX.XX is the IP address.

The port by default is 3000.

The application where is pointed is api/v1/hvac.

With the following body

{

“systemID”: n (system number),

“zoneID”: m (zone number)

“parameter” (parameter to modify, e.g “setpoint”): f (value)

}

PUT request parameters

The PUT method allows to modify the following parameters:

Parameters	Value type	Description	Available values	
on	Boolean	On/Off	true	
			false	
setpoint	Integer	Setpoint temperature	15 to 30 for ˚C	
			59 to 86 for ˚F	
name	String	Name of zone	*Name of zone*	
coolsetpoint*	Integer	Setpoint temperature for cooling mode	18 to 30 for ºC	
			59 to 86 for ºF	
heatsetpoint*	Integer	Setpoint temperature for heating mode	15 to 30 for ºC	
			64 to 86 for ºF	
mode	Integer	Operation mode	1	STOP
			2	COOLING
			3	HEATING
			4	FAN
			5	DRY
			7	AUTO*
speed	Integer	Fan speed	1 to 7 based on the installation	
			0	Auto
coldstage	Integer	Cooling stages	1	AIR
			2	RADIANT
			3	COMBINED
heatstage	Integer	Heating stages	1	AIR
			2	RADIANT
			3	COMBINED

**Only for VAF or ZBS Airzone systems.*

If the **PUT** method is correctly requested the response is indicated with code **200** and will give back the system parameters.

If the **PUT** method is requested wrong the response is indicated with code **500** and will give back the system parameters.

Parameters	Value type	Description	Available values	
errors	Array	Error	request malformed	Wrong request format
			zoneid not provided	Zone not present in the request
			systemid not provided	System not present in the request
			zoneid out of range	Zone not valid (0 – 32)
			systemid out of range	System not valid (0 – 32)
			zoneid not available	Zone not available
			internal error	Internal error in the application
			driver not provided	The driver is not indicated in the request
			method not supported	Unsupported method

AIRZONE

INTEGRATION

Check integration

To check the installed driver version.

POST http://XXX.XXX.XXX.XX:3000/api/v1/integration

Where XXX.XXX.XXX.XX is the IP address.

The port by default is 3000.

The application where is pointed is api/v1/integration.

If the **POST** method is correctly requested the response is indicated with code **200** and will give back the following parameters:

```
{
    "driver": "integrator"
}
```

Where "integrator" stands for the system to control with Airzone.

Modify integration

To set the integration value.

PUT http://XXX.XXX.XXX.XX:3000/api/v1/integration

Where XXX.XXX.XXX.XX is the IP address.

The port by default is 3000.

The application where is pointed is api/v1/integration.

With the following body

```
{
    "driver": "integrator"
}
```

Where "integrator" stands for the system to control with Airzone.

If the **PUT** method is correctly requested the response is indicated with code **200** and will give back the following parameters:

```
{
    "driver": "integrator"
}
```

Where "integrator" stands for the system to control with Airzone.

If the **PUT** method is requested wrong the response is indicated with code **500** and will give back the system parameters.

```
{
    "errors":  [{
        "error": "integration not provided"
    }]
}
```

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