

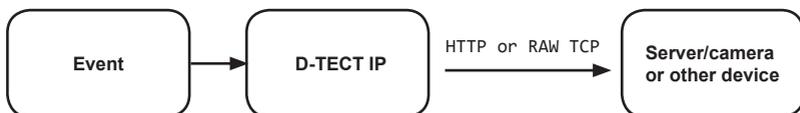
1. Introduction

The D-TECT IP can be set to send network alarms at different events, but to fully integrate and control its functions it is necessary to use the HTTP API.

When using user configurable network alarms the VMS systems and IP cameras are set to listen for specific messages (as for example a HTTP API for an IP camera or a generic event input in a VMS). Event conditions can be set in the unit to only send alarms that are of interest. For almost any kind of event this includes alarm delay and timeout, but it can also be different types of threshold levels.

The HTTP API are used on all D-TECT IP units and allows control of all functions . This method allows all devices that can perform a HTTP request to integrate the D-TECT IP.

Integration using user configurable network alarms



Integration using HTTP API



2. User configurable network alarms

The D-TECT IP can perform user configurable network alarms at a number of different event triggers. It can be configured to a maximum of 40 individual network alarms according to the following table.

Number	Event	Condition	Condition Value	Trigger
1 ... 20	PIR Detection	Digital input		start
				stop
	Tampering	Accelerometer		start
				stop
	Low light detection	Lux level	2 ... 50	start
				stop
	Timer/heartbeat	Timer period (s)	1 ... 100000	start
				stop
	Temperature	Upper limit (°C)	-40 ... 100	start
		Lower limit (°)		stop

Supported protocols: HTTP request (GET or POST) or RAW TCP

Supported data types: JSON, XML, plain text

Maximum URL length: 400 characters

3. HTTP API to control D-TECT

The following commands are used to control the D-TECT and to read sensor status. The HTTP API can be used by software or other IP devices.

All HTTP requests are of the GET method. The HTTP requests are based on the following layout:

http://<user>:<pass>@<ip-address>/<product>/<group>/<index>/<function>/<action>

<user> Saved username in the product

<pass> Saved password in the product

<ip-address> IP address of the product

3.1. D-Tect API function list

Product	Group	Index	Function	Action	Description	
detect					Returns all status of the D-TECT	
	sensor	pir_detection			Returns status of PIR	
			value		Returns detection value of PIR	
		low_light_detection			Returns status of low light detector	
			value		Returns value of light detector	
		walk_test			Returns status of walk test	
			state			Returns state walk test
				on		Sets walk test to On
			off		Sets walk test to Off	
		temperature				Returns status of temperature sensor
			value			Returns temperature value
	unit				Returns temperature unit	
	digital_outputs	1 ... 2				Returns status of all digital outputs
						Returns status of selected digital output
			State			Returns state of selected digital output
				open		Sets selected digital output to open.
			close		Sets selected digital output to closed.	
	tampering					Returns status of all tampering sensors
						Returns status of selected tampering sensor
		lid	state			Returns state of selected tampering sensor
				reset		Resets the state of selected tampering sensor. (automatic reset after 10 seconds)

3.2. Examples - Get status information

Each time a status is requested the D-TECT returns a JSON object. The JSON object is built up with the logic as described in section 3.1.

Get state of a specific digital output with the following request.

HTTP request: `http://user:pass@<product-ip>/dtect/digital_outputs/1/state`

Response: "open" (alternatively "closed")

Get temperature status with the following request.

HTTP request: `http://user:pass@<product-ip>/dtect/sensor/temperature/value`

Response: 25.3

Get complete status with the following request.

HTTP request: `http://user:pass@<product-ip>/dtect`

Response: {
 "sensor": {
 "pir_detection": {
 "value": "no_alarm"
 },
 "low_light_detection": {
 "value": 2
 },
 "walk_test": {
 "value": "off"
 },
 "temperature": {
 "value": 19.2,
 "unit": "°C"
 }
 },
 "digital_outputs": {
 "1": {
 "state": "closed"
 },
 "2": {
 "state": "open"
 }
 },
 "tampering": {
 "lid": {
 "state": "alarm"
 }
 }
}

3.3. Examples - Action commands

Close a specific digital output with the following request.

HTTP request: `http://user:pass@<product-ip>/dtect/digital_outputs/1/state/close`

Response: OK

Reset a specific tampering alarm with the following request.

HTTP request: `http://user:pass@<product-ip>/dtect/tampering/lid/state/reset`

Response: OK