

# Manual of Reolink Open Platform v.1.0 - ROP Configuration via LAN

## Prerequisites

- The camera is connected to a LAN.
- The configuration tool and the camera are deployed on the same LAN.

## How to Set Up ROP Configuration via LAN

### Step 1: Scan for the camera on the LAN

- Broadcast over the LAN through the port 2000
- Parameter

Name	Description	Type	Value Range
magic	Scan identifier to broadcast	int	0x00952700

- Format: JSON
- Example

```
{  
  "magic" : 9774848  
}
```

- Response Content

Name	Description	Type	Value Range
ip	IP address of the device	string	Valid IP address
uid	Device UID	string	Valid UID
port	HTTP port number for ROP	Integer	(1, 65535)

- Format: JSON
- Example Response

```
{  
  "uid" : "952700Y002QSVBXD",  
  "ip" : "192.168.10.2",  
  "port" : 9527  
}
```

## Step 2: Set up ROP configuration

- Protocol: HTTP
- Port: Port obtained in the step 1
- Method: POST
- Path: /rop/setup/
- Payload: ROP configuration parameters in JSON. For details, refer to the "Create the Device Initialization Session" section of [Interfaces of Reolink Open Platform v1.0](#).
- Error code format. For details, refer to the "Error Codes" section of [Interfaces of Reolink Open Platform v1.0](#).
- Example Request

```
POST /rop/setup HTTP/1.1
Host: 192.168.1.15
Content-Type: application/json; charset=utf-8
Content-Length: ...

{
  "time": 1685524630,
  "caHash": "x7xORDop+VJ38Fo/p7fmvMAHJt88B+9C5fS+X077mhA=",
  "code": "eyJ1awQiOiI5NTI3MDBZMDAyUVVNWQlh=",
  "host": "open.develop.reolink.com.cn",
  "getCAPort": 61000,
  "getCertPort": 61001,
  "registerPort": 61002
}
```

- Response Content

Name	Description	Type
message	Value: ok	String

- Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
Content-Length: ...

{
  "message": "ok"
}
```

- Error Codes

Error cause (symbol)	HTTP status code	Note
invalid_parameter	400	Parameter error
sync_time_failed	400	Failed to sync time
cmd_timeout	400	Command execution timed out

Error cause (symbol)	HTTP status code	Note
cmd_exec_error	400	Command execution error
download_ca_failed	400	Failed to download the CA certificate
download_private_key_failed	400	Failed to download the private key
registe_failed	400	Registration failed