

# Add Device to CONTROL

## Overview

This guide walks you through configuring a device to connect to the CONTROL platform. In this example, we'll configure an ONT from an oriental vendor with TR069 credentials created in a previous step.

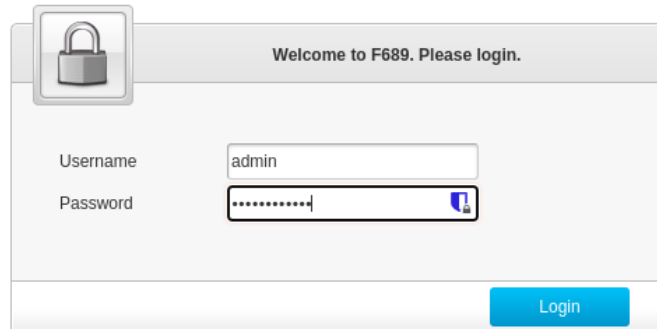
## Prerequisites

Before beginning, ensure you have:

- Valid TR069 credentials created in CONTROL (see the [Profile chapter](#))
- Network access from the device to the CONTROL platform URL
- Administrative access to your device


## Step 1: Access Device Configuration

Log in to your device's web interface.



Welcome to F689. Please login.

Username

Password  

## Step 2: Review Existing WAN Interfaces

After logging in, verify the existing WAN interfaces. This device has a pre-configured interface, but we'll examine the configuration and create a new one for demonstration purposes.

Status
WAN
Security
Parental Controls
DDNS
SNTP
Port Binding
Dynamic Routing
Multicast
Port Locating
PON Information

### Page Information

This page provides the function of WAN connection parameter(s) configuration.

#### WAN Connection

▶ Management

+ Create New Item

To navigate to the WAN interface configuration:

1. Click "**Internet**"
2. Click "**WAN**"
3. Click "**WAN**" again
4. In the displayed list, you'll see existing WAN interfaces (in this example, an interface named "**Management**")

## Step 3: Create a New WAN Interface

Create a new WAN interface for TR069 connectivity:

Status
WAN
Security
Parental Controls
DDNS
SNTP
Port Binding
Dynamic Routing
Multicast
Port Locating
PON Information

- WAN
- 3G/4G
- DSLite
- 6RD

### Page Information

This page provides the function of WAN connection parameter(s) configuration.

#### ▼ WAN Connection

▶ Management	
▼ New Item	
Connection Name	<input type="text"/>
Type	Routing ▼
Service List	INTERNET ▼
MTU	1492
Link Type	PPP ▼
PPP Transfer Type	PPPoE ▼
<b>PPP</b>	
Username	<input type="text"/>
Password	*****
Authentication Type	Auto ▼
Connection Mode	Always On ▼
IP Version	IPv4 ▼
NAT	<input checked="" type="radio"/> On <input type="radio"/> Off
VLAN	<input type="radio"/> On <input checked="" type="radio"/> Off
DSCP	-1
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	
+ Create New Item	



1. Change the connection type from "PPP" to "IP":

Status
WAN
Security
Parental Controls
DDNS
SNTP
Port Binding
Dynamic Routing
Multicast
Port Locating
PON Information

WAN

3G/4G

DSLite

6RD

## Page Information

This page provides the function of WAN connection parameter(s) configuration.

### ▼ WAN Connection

▶ Management	
▼ New Item	
Connection Name	<input type="text"/>
Type	<input type="text" value="Routing"/>
Service List	<input type="text" value="INTERNET"/>
MTU	<input type="text" value="1500"/>
Link Type	<input type="text" value="IP"/>
IP Version	<input type="text" value="IPv4"/>
<b>IPv4</b>	
IP Type	<input type="text" value="DHCP"/>
NAT	<input checked="" type="radio"/> On <input type="radio"/> Off
VLAN	<input type="radio"/> On <input checked="" type="radio"/> Off
DSCP	<input type="text" value="-1"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	
<input type="button" value="+ Create New Item"/>	

# Step 4: Configure Service List Options

Next, configure the "**Service List**" type. Change it from *Internet* to one that includes *TR069*.

Status

WAN

Security

Parental Controls

DDNS

SNTP

Port Binding

Dynamic Routing

Multicast

Port Locating

PON Information

WAN

3G/4G

DSLite

6RD

## Page Information

This page provides the function of WAN connection parameter(s) configuration.

### ▼ WAN Connection

#### ▶ Management

#### ▼ New Item

Connection Name	<input type="text"/>
Type	Routing
Service List	INTERNET
MTU	<input type="text"/>
Link Type	INTERNET
IP Version	VoIP
IPv4	INTERNET VoIP
IP Type	VoIP_TR069
NAT	INTERNET_VoIP_TR069
VLAN	<input type="radio"/> On <input checked="" type="radio"/> Off
DSCP	-1

Apply

Cancel

[+ Create New Item](#)

# Understanding Service List Combinations

You may encounter several service list options in this device and possibly others. Here's what each means:

1. **TR069** — This option is alone, it is because there would be a separate WAN interface solely to manage the device through the CONTROL platform, which would be ideal but is often not possible due to network design issues that already exist.
2. **INTERNET\_TR069** — With this option we will be sharing the Internet service for the user or client along with the administration of the device. **Not recommended** since when the service is suspended, access to the CONTROL platform is sometimes lost and communication would be limited until the service is reactivated.

3. **VOIP\_TR069** — Sharing the TR069 service with VoIP may possibly be a good option since it would not affect the existing Internet services you already have.
4. **INTERNET\_VoIP\_TR069** — This last option would be to manage all the services in a single VLAN or WAN interface, which is rare for clients with this configuration, but it works.

## Step 5: Configure WAN Interface Parameters

Configure your WAN interface with the following settings:

Status
WAN
Security
Parental Controls
DDNS
SNTP
Port Binding
Dynamic Routing
Multicast
Port Locating
PON Information

- WAN
- 3G/4G
- DSLite
- 6RD

Page Information

This page provides the function of WAN connection parameter(s) configuration.

WAN Connection

▶ Management	
▼ New Item	
1 Connection Name	Management
Type	Routing
2 Service List	TR069
MTU	1500
Link Type	IP
3 IP Version	IPv6
<b>IPv6</b>	
IPv6 Info Acquire Mode	Auto
Request PD	<input type="radio"/> On <input checked="" type="radio"/> Off
Unnumbered Mode	<input type="radio"/> On <input checked="" type="radio"/> Off
GUA Allowed From	<input type="checkbox"/> SLAAC
	<input checked="" type="checkbox"/> DHCPv6
	<input type="checkbox"/> PD
VLAN	<input checked="" type="radio"/> On <input type="radio"/> Off
4 VLAN ID	200
802.1p	0
DSCP	-1
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	
<input type="button" value="+ Create New Item"/>	

- 1. Connection name** — Enter a descriptive name to identify this connection
- 2. Service List** — Select **TR069**
- 3. IP Version** — Select the appropriate IP version (IPv4 or IPv6)
- 4. VLAN ID** — Enter the VLAN ID for this service

**Important:** Please make the necessary changes in your network configuration to ensure the device can reach the CONTROL platform URL through this WAN interface with the TR069 service enabled.

After clicking **Apply**, verify your configuration:

Status
WAN
Security
Parental Controls
DDNS
SNTp
Port Binding
Dynamic Routing
Multicast
Port Locating
PON Information

- WAN
- 3G/4G
- DSLite
- 6RD

Page Information

This page provides the function of WAN connection parameter(s) configuration.

▼ WAN Connection

▼ Management 🗑️

Connection Name	<input type="text" value="Management"/>
Type	<input type="text" value="Routing"/>
Service List	<input type="text" value="TR069"/>
MTU	<input type="text" value="1500"/>
Link Type	<input type="text" value="IP"/>
IP Version	<input type="text" value="IPv6"/>

**IPv6**

IPv6 Info Acquire Mode	<input type="text" value="Auto"/>
Request PD	<input type="radio"/> On <input checked="" type="radio"/> Off
Unnumbered Mode	<input type="radio"/> On <input checked="" type="radio"/> Off
GUA Allowed From	<input type="checkbox"/> SLAAC <input checked="" type="checkbox"/> DHCPv6 <input type="checkbox"/> PD

VLAN	<input checked="" type="radio"/> On <input type="radio"/> Off
VLAN ID	<input type="text" value="200"/>
802.1p	<input type="text" value="0"/>
DSCP	<input type="text" value="-1"/>

+ Create New Item

# Step 6: Verify Network Connectivity

Confirm that the WAN interface has a valid IP address and can reach the CONTROL platform:

[Status](#)[WAN](#)[Security](#)[Parental Controls](#)[DDNS](#)[SNTP](#)[Port Binding](#)[Dynamic Routing](#)[Multicast](#)[Port Locating](#)[PON Information](#)[PON Inform](#)[WAN](#)[3G/4G](#)[DSLite](#)[6RD](#)

### Page Information

This page shows the status of WAN.

#### ▼ WAN Connection Status

Connection Name	Management
Type	IP
IP Version	IPv6
LLA	fe80::d6b7:9[redacted]
GUA	[redacted] 22a8:cb34
DNS	[redacted]::3f:f::
IPv6 Gateway	fe80::2
IPv6 Connection Status	Connected
IPv6 Online Duration	72 h 59 min 28 s
WAN MAC	d4:b7:09 [redacted]

[Refresh](#)

## Optional: Test CONTROL Platform Connectivity

This step is optional, but you can confirm with a ping that the CONTROL URL can be reached using the device's built-in ping utility:

Status
System Management
Account Management
Log Management
TR069 Management
Diagnosis <b>2</b>
IPv6 Switch

Network Diagnosis

Mirror Configuration

Loopback Detection

ARP Table

MAC T...

## Page Information

This page provides the function of network diagnosis parameter(s) configuration.

### Network Diagnosis

[What should be noticed when diagnosing?](#)

#### PING Diagnosis

**4** IP Address/Host Name

**3** Egress

**5** Network Diagnosis

#### Diagnosis Result

```
PING .....zequenze.com [6ba9:7a73:f365:ebfd]: 56 data bytes
Reply from .....6ba9:7a73:f365:ebfd: bytes=56 time=54.5ms seq=0
Reply from .....6ba9:7a73:f365:ebfd: bytes=56 time=54.3ms seq=1
.....
--- control.zequenze.com ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 54.3/54.4/54.5 ms
```

**6**

▶ TRACEROUTE Diagnosis

▶ Simulation

1. Navigate to "**Management & Diagnosis**"
2. Click "**Diagnosis**"
3. Under "**Egress**", select your TR069 interface (e.g., "**Management**")
4. Enter the CONTROL platform domain
5. Start the ping test
6. Confirm that all packets successfully reach CONTROL

## Step 7: Configure TR069 Settings

Navigate to the TR069 Management section:

Status

System Management

Account Management

Log Management

TR069 Management 2

Diagnosis

IPv6 Switch

## Page Information

This page provides the function of TR069 management parameter(s) configuration.

## ▼ Basic Configuration

WAN Connection	Management
ACS URL	https://domain.com/
Username	dummy
Password	*****
Connection Request URL	http://0.0.0.0
Connection Request Username	ACS
Connection Request Password	*****
Periodic Inform	<input checked="" type="radio"/> On <input type="radio"/> Off
Periodic Inform Interval	7200 s
Authenticating ACS	<input type="radio"/> On <input checked="" type="radio"/> Off
Authenticating File Server	<input type="radio"/> On <input checked="" type="radio"/> Off

Apply Cancel

## ▶ XMPP Configuration

1. Click "**Management & Diagnosis**"
2. Click "**TR069 Management**"

## Step 8: Connect Device to CONTROL

Configure the TR069 parameters to establish connection with CONTROL:

Status

System Management

Account Management

Log Management

TR069 Management

Diagnosis

IPv6 Switch

## Page Information

This page provides the function of TR069 management parameter(s) configuration.

## ▼ Basic Configuration

1	WAN Connection	Management
2	ACS URL	https://domain.com/
3	Username	dummy
4	Password	*****
	Connection Request URL	http://0.0.0.0
	Connection Request Username	ACS
	Connection Request Password	*****
5	Periodic Inform	<input checked="" type="radio"/> On <input type="radio"/> Off
6	Periodic Inform Interval	7200 s
	Authenticating ACS	<input type="radio"/> On <input checked="" type="radio"/> Off
	Authenticating File Server	<input type="radio"/> On <input checked="" type="radio"/> Off

Apply

Cancel

## ▶ XMPP Configuration

Configure the following parameters:

1. **WAN Connection** — Select the interface created for TR069 (e.g., *Management*)
2. **ACS URL** — Enter: `https://control.zequenze.com/cwmp/`  
**Note:** Please confirm the correct URL with Zequenze staff before proceeding.
3. **Username** — Enter the username created in the [Profile chapter](#)
4. **Password** — Enter the password created in the [Profile chapter](#)
5. **Periodic Inform** — Enable this option to allow the device to report periodically to CONTROL
6. **Periodic Inform Interval** — For initial setup, set this to **180 seconds**

## Step 9: Apply Configuration

Review your final configuration:

Status

System Management

Account Management

Log Management

TR069 Management

Diagnosis

IPv6 Switch

## Page Information

This page provides the function of TR069 management parameter(s) configuration.

### ▼ Basic Configuration

WAN Connection	Management
ACS URL	https://control.zequenze.com/cwmp/
Username	user_default_device
Password	*****
Connection Request URL	http://0.0.0.0
Connection Request Username	ACS
Connection Request Password	*****
Periodic Inform	<input checked="" type="radio"/> On <input type="radio"/> Off
Periodic Inform Interval	180 s
Authenticating ACS	<input type="radio"/> On <input checked="" type="radio"/> Off
Authenticating File Server	<input type="radio"/> On <input checked="" type="radio"/> Off

**1**

### ▶ XMPP Configuration

Click the **Apply** button to save your changes.

## Next Steps

Device configuration is now complete. The device should appear in the CONTROL platform within the configured periodic inform interval. You can now proceed to manage and monitor your device through CONTROL.

Revision #4

Created 2026-02-13 22:17:06 UTC by ipena@zequenze.com

Updated 2026-04-09 03:08:00 UTC by mauro@zequenze.com