

# ขั้นตอนการ Config Broadband Router ZiSA V105WL

## 1. ลบ WAN Service ออกใหม่ เพื่อป้องกันปัญหาเรื่อง Routing



Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp Proxy	Igmp Source	NAT	Firewall	IPv6	Mld Proxy	Mld Source	Remove	Edit	Action
ppp0.1	pppoe_0_1_32	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	Disabled	Disabled	<input checked="" type="checkbox"/>	edit	Up
ppp1.1	pppoe_0_1_1	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	Disabled	Disabled	<input checked="" type="checkbox"/>	edit	Up
ppp2.1	pppoe_eth4	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	Disabled	Disabled	<input checked="" type="checkbox"/>	edit	Up

Add Remove 3

2

## 2. ลบ Layer2 Interface ออกใหม่ เพื่อป้องกันการสับสนซึ่งมีอยู่ 3 ส่วน



### 2.1 ลบ ATM ซึ่งใช้งานใน Mode ADSL

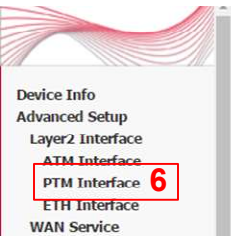
DSL ATM Interface Configuration

Choose Add, Remove or Edit to configure DSL ATM interfaces.

Interface	Vpi	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(bytes)	Min Cell Rate(cells/s)	Link Type	Conn Mode	IP QoS	MPAAL Prec/Alg/Wght	Remove
atm0	1	32	Path0	UBR					EoA	VlanMuxMode	Support	8/WRR/1	<input checked="" type="checkbox"/>

Add Remove 5

### 2.2 ลบ PTM ซึ่งใช้งานใน Mode VDSL



DSL PTM Interface Configuration

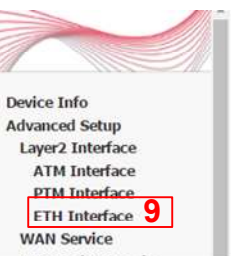
Choose Add, or Remove to configure DSL PTM interfaces.

Interface	DSL Latency	PTM Priority	Connection Mode	IP QoS	Remove
ptm0	Path0	Normal&High	VlanMuxMode	Support	<input checked="" type="checkbox"/>

Add Remove 8

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### 2.3 ลบ ETH WAN ซึ่งใช้งานเป็น Broadband Router



ETH WAN Interface Configuration

Choose Add, or Remove to configure ETH WAN interfaces.

Allow one ETH as layer 2 wan interface.

Name	Connection Mode	Remove
eth4/eth4	VlanMuxMode	<input checked="" type="checkbox"/>

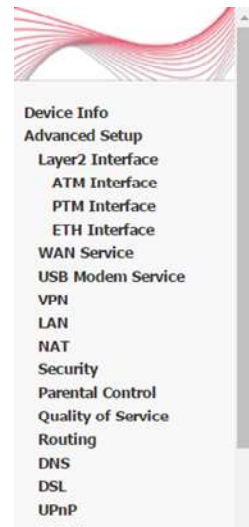
Remove 11

10

>>> ลบออกหมดแล้ว ต่อไปสร้างใหม่ <<<

### 3. สร้าง Layer2 Interface เฉพาะที่ต้องการใช้งานเท่านั้น

#### 3.1 สร้าง Layer2 Interface Mode ATM ใช้งานเป็น ADSL



DSL ATM Interface Configuration

Choose Add, or Remove to configure DSL ATM interfaces.

Interface	Vpi	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(bytes)	Min Cell Rate(cells/s)	Link Type	Conn Mode	IP QoS	MPAAL Prec/Alg/Wght	Remove	
														<b>13</b> Add Remove

ATM PVC Configuration

This screen allows you to configure a ATM PVC.

VPI:  [0-255] **14**  
VCI:  [32-65535]

Select DSL Latency

☒ Path0 (Fast)  
☐ Path1 (Interleaved)

Select DSL Link Type (EoA is for PPPoE, IPoE, and Bridge.)

☒ EoA  
☐ PPPoA  
☐ IPoA

Encapsulation Mode:  **15**

Service Category:

Back **16** Apply/Save



DSL ATM Interface Configuration

Choose Add, or Remove to configure DSL ATM interfaces.

Interface	Vpi	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(bytes)	Min Cell Rate(cells/s)	Link Type	Conn Mode	IP QoS	MPAAL Prec/Alg/Wght	Remove
atm0	0	35	Path0	UBR					EoA	VlanMuxMode	Support	8/WRR/1	

Add Remove

>>จะแสดง Layer2 Service ที่เราสร้าง <<<

### 3.1.1 สร้าง WAN Service



Wide Area Network (WAN) Service Setup												
Choose Add, Remove or Edit to configure a WAN service over a selected interface.												
Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp Proxy	Igmp Source	NAT	Firewall	IPv6	Mld Proxy	Mld Source	Remove
												Edit
												Action

18

Add

Remove

#### WAN Service Interface Configuration

Select a layer 2 interface for this service

Note: For ATM interface, the descriptor string is (portId\_vpl\_vci)

For PTM interface, the descriptor string is (portId\_high\_low)

Where portId=0 --> DSL Latency PATH0

portId=1 --> DSL Latency PATH1

portId=4 --> DSL Latency PATH0&1

low =0 --> Low PTM Priority not set

low =1 --> Low PTM Priority set

high =0 --> High PTM Priority not set

high =1 --> High PTM Priority set

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atm0/(0\_0\_35) ▼

Back

Next

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#### WAN Service Configuration

Select WAN service type:

☒ PPP over Ethernet (PPPoE) 21

☐ IP over Ethernet

☐ Bridging

Enter Service Description: pppoe\_0\_0\_35

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID.

For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]:

-1

Enter 802.1Q VLAN ID [0-4094]:

-1

Network Protocol Selection:

IPv4 Only ▼

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Next

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## PPP Username and Password

PPP usually requires that you have a user name and password to you.

PPP Username:

PPP Password:

PPPoE Service Name:

Authentication Method:

MTU[576-1492]:

23

☒ Enable NAT

☐ Enable Fullcone NAT

☒ Enable Firewall

\* อื่นๆ ใช้ค่า default

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## Routing -- Default Gateway

Default gateway interface list can have multiple WAN interfaces served as system default gateways but the last one the lowest priority if the WAN interface is connected. Priority order can be changed by ren

### Selected Default Gateway Interfaces

->

<-

### Available Routed WAN Interfaces

Back Next 25

## DNS Server Configuration

Select DNS Server Interface from available WAN interfaces OR enter static DNS se is configured, Static DNS server IP addresses must be entered.

DNS Server Interfaces can have multiple WAN interfaces served as system dns s one the lowest priority if the WAN interface is connected. Priority order can be cha

☒ Select DNS Server Interface from available WAN interfaces:

Selected DNS Server Interfaces

->

<-

Available WAN Interfaces

\* อื่นๆ ไม่ต้องสนใจ

Back Next 26



## WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

Connection Type:	PPPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast Proxy:	Disabled
IGMP Multicast Source Enabled:	Disabled
MLD Multicast Proxy:	Disabled
MLD Multicast Source Enabled:	Disabled
Quality Of Service:	Disabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

Back Apply/Save 26

## Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp Proxy	Igmp Source	NAT	Firewall	IPv6	Mid Proxy	Mid Source	Remove	Edit	Action
ppp0.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	Disabled	Disabled	<input type="checkbox"/>	edit	Up

Add Remove

=== จบในส่วน config ใช้งาน Mode ADSL ===

## 3.2 สร้าง Layer2 Interface Mode PTM กรณีต้องการใช้งานเป็น VDSL



## DSL PTM Interface Configuration

Choose Add, or Remove to configure DSL PTM interfaces.

Interface	DSL Latency	PTM Priority	Connection Mode	IP QoS	Remove
-----------	-------------	--------------	-----------------	--------	--------

3 Add Remove

## PTM Configuration

This screen allows you to configure a PTM connection.

Select DSL Latency

- ☒ Path0 (Fast) 4  
☐ Path1 (Interleaved)

Select Scheduler for Queues of Equal Precedence as the Default Queue

- ☒ Weighted Round Robin  
☐ Weighted Fair Queuing

Default Queue Weight:

1 [1-63]

Default Queue Precedence:

8 [1-8] (lower value, higher priority)

Default Queue Minimum Rate:

-1 [1-0 Kbps] (-1 indicates no shaping)

Default Queue Shaping Rate

-1 [1-0 Kbps] (-1 indicates no shaping)

Default Queue Shaping Burst Size:

3000 [bytes] (shall be >=1600)

Back Apply/Save 5

### DSL PTM Interface Configuration

Choose Add, or Remove to configure DSL PTM interfaces.

Interface	DSL Latency	PTM Priority	Connection Mode	IP QoS	Remove
ptm0	Path0	Normal&High	VlanMuxMode	Support	<input type="checkbox"/>

Add

Remove



### Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp Proxy	Igmp Source	NAT	Firewall	IPv6	Mld Proxy	Mld Source	Remove	Edit	Action
-----------	-------------	------	------------	-----------	------------	-------------	-----	----------	------	-----------	------------	--------	------	--------

7

Add

Remove

### WAN Service Interface Configuration

Select a layer 2 interface for this service

Note: For ATM interface, the descriptor string is (portId\_vpi\_vci)

For PTM interface, the descriptor string is (portId\_high\_low)

Where portId=0 --> DSL Latency PATH0

portId=1 --> DSL Latency PATH1

portId=4 --> DSL Latency PATH0&1

low =0 --> Low PTM Priority not set

low =1 --> Low PTM Priority set

high =0 --> High PTM Priority not set

high =1 --> High PTM Priority set

ptm0/(0\_1\_1) ▼ 8

Back

Next

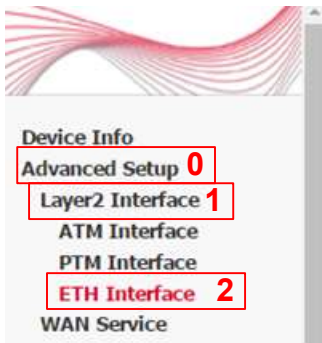
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=== ที่เหลือ Config เหมือน ADSL ทุกประการ ===

=== จบในส่วน config ใช้งาน Mode VDSL ===



### 3.3 สร้าง Layer2 Interface Mode ETH กรณีต้องการใช้งานเป็น Broadband Router



#### ETH WAN Interface Configuration

Choose Add, or Remove to configure ETH WAN interfaces.  
Allow one ETH as layer 2 wan interface.

Name	Connection Mode	Remove
------	-----------------	--------

3 Add Remove

#### ETH WAN Configuration

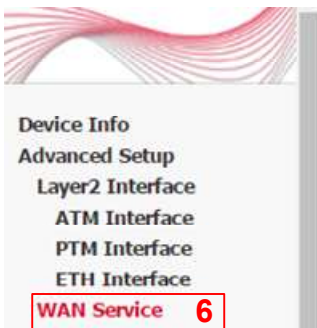
This screen allows you to configure an ETH port .

Select an ETH port:

4 eth4/eth4 ▼

Back Apply/Save 5

\* ระวังจะผิดตรงนี้



#### Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp Proxy	Igmp Source	NAT	Firewall	IPv6
-----------	-------------	------	------------	-----------	------------	-------------	-----	----------	------

7 Add Remove

#### WAN Service Interface Configuration

Select a layer 2 interface for this service

Note: For ATM interface, the descriptor string is (portId\_vpi\_vci)

For PTM interface, the descriptor string is (portId\_high\_low)

Where portId=0 --> DSL Latency PATH0

portId=1 --> DSL Latency PATH1

portId=4 --> DSL Latency PATH0&1

low =0 --> Low PTM Priority not set

low =1 --> Low PTM Priority set

high =0 --> High PTM Priority not set

high =1 --> High PTM Priority set

8 eth4/eth4 ▼

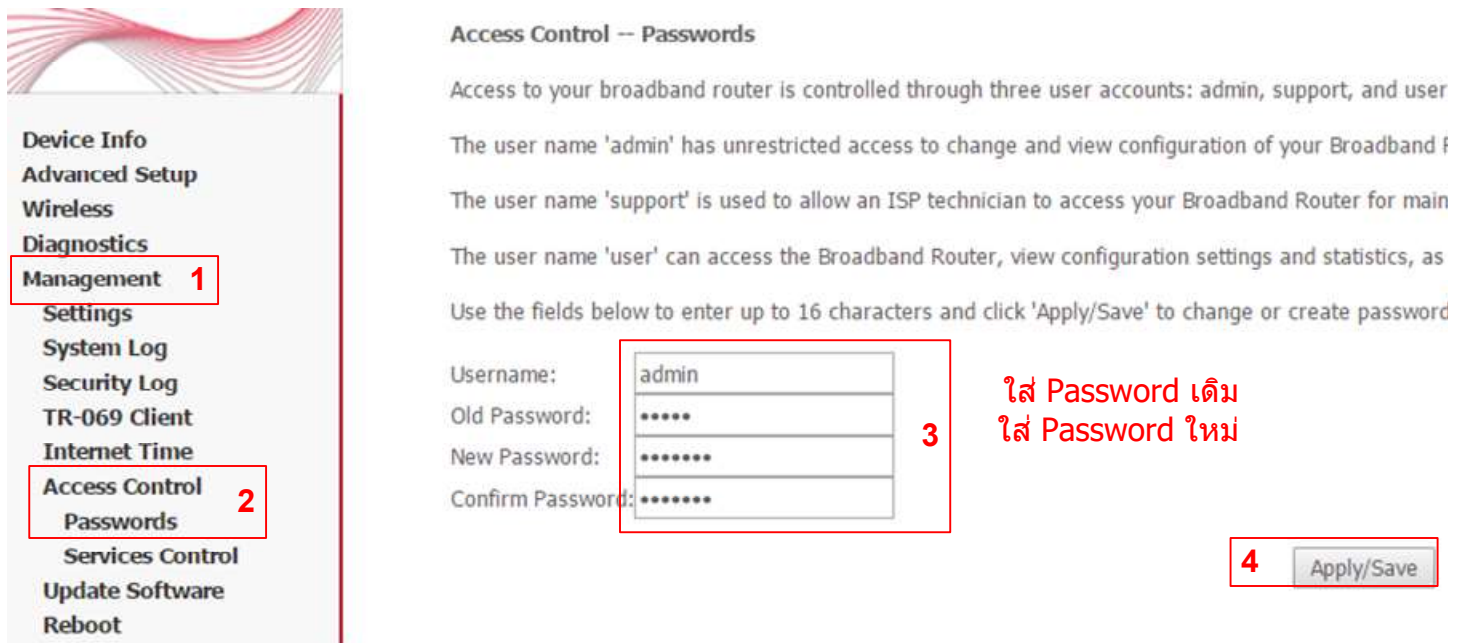
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=== ที่เหลือ Config เหมือน ADSL ทุกประการ ===

=== จบในส่วน config ใช้งานเป็น Broadband Router ===

## Config เพิ่มเติม เพื่อป้องกัน การถูกโจมตีจากภายนอก (ต้องทำทุกกรณี ไม่ว่าใช้งาน Mode ใด)

### 1. เปลี่ยน password



**Access Control -- Passwords**

Access to your broadband router is controlled through three user accounts: admin, support, and user.

The user name 'admin' has unrestricted access to change and view configuration of your Broadband Router.

The user name 'support' is used to allow an ISP technician to access your Broadband Router for main configuration.

The user name 'user' can access the Broadband Router, view configuration settings and statistics, as well as update the configuration.

Use the fields below to enter up to 16 characters and click 'Apply/Save' to change or create password.

Username: admin

Old Password: .....

New Password: .....

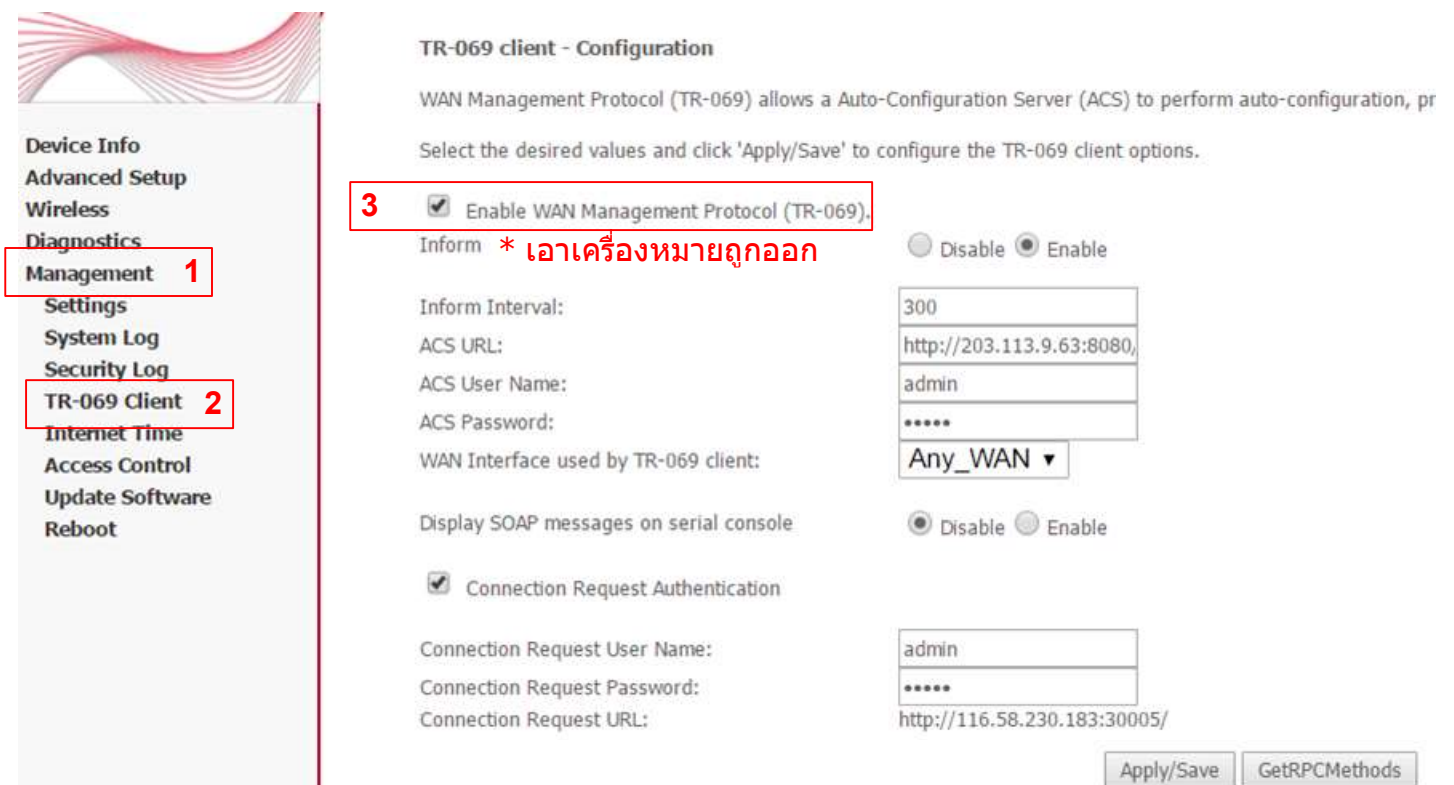
Confirm Password: .....

ใส่ Password เดิม

ใส่ Password ใหม่

4 Apply/Save

### 2. ปิด TR-069 เนื่องจาก Firmware เป็นของ TOT เพื่อป้องกันการ Remote เปลี่ยน config



**TR-069 client - Configuration**

WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform auto-configuration, providing a convenient way to configure the router.

Select the desired values and click 'Apply/Save' to configure the TR-069 client options.

3 ☒ Enable WAN Management Protocol (TR-069). \* เอาเครื่องหมายถูกออก

Inform ☐ Disable ☒ Enable

Inform Interval: 300

ACS URL: http://203.113.9.63:8080/

ACS User Name: admin

ACS Password: .....

WAN Interface used by TR-069 client: Any\_WAN

Display SOAP messages on serial console: ☒ Disable ☐ Enable

☒ Connection Request Authentication

Connection Request User Name: admin

Connection Request Password: .....

Connection Request URL: http://116.58.230.183:30005/

Apply/Save GetRPCMethods



## TR-069 client - Configuration

WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform auto-configuration, p

Select the desired values and click 'Apply/Save' to configure the TR-069 client options.

☐ Enable WAN Management Protocol (TR-069).

4

Apply/Save

GetRPCMethods

### 3. เปิด Remote WAN



#### Access Control -- Services

Services access control list (SCL) enable or disable the running services.

Services	LAN	WAN	Port
HTTP	<input checked="" type="checkbox"/> enable	<input checked="" type="checkbox"/> 5 enable	80
TELNET	<input checked="" type="checkbox"/> enable	<input type="checkbox"/> enable	23
SSH	<input type="checkbox"/> enable	<input type="checkbox"/> enable	22
FTP	<input checked="" type="checkbox"/> enable	<input type="checkbox"/> enable	21
TFTP	<input checked="" type="checkbox"/> enable	<input type="checkbox"/> enable	69
ICMP	<input checked="" type="checkbox"/> enable	<input checked="" type="checkbox"/> 6 enable	0
SAMBA	<input checked="" type="checkbox"/> enable	<input type="checkbox"/> enable	445

← เปิดให้ Remote ผ่าน Web ได้

← เปิดให้ Ping WAN ได้

7

Apply/Save

Username / password สำหรับ Remote = support / support