

BSNL ONT REQUIREMENTS

MTCTE Certification

 All the ONT models inducted to the BSNL Network should be MTCTE approved.

ONT N/W Locking Requirements

PPPOE:

- 1. PPPOE username should be hardcoded with domain name "@ftth.bsnl.in" in WAN Page.
- 2. Hardcoded domain "@ftth.bsnl.in" should be displayed after the PPPOE username box .
- 3. There should not be any truncation in PPPOE username. It should be displayed with actual data, as entered. The authentication request should be forwarded to the respective authentication server, with the actual entered user id appended with the hardcoded domain name.

VolP:-

- 4. SIP Register address should be hardcoded with ".bsnl.in" as voip domain name suffix.
- 5. Hardcoded phrase ".bsnl.in" should be displayed after the VOIP domain name boxes.
- 6. There should not be any truncation at VOIP domain fields and it should be displayed with actual data, as entered. The SIP registration request should be forwarded to respective voip core with the actual entered data appended with the hardcoded phrase".bsnl.in"
- 7. No hardcoding required at Out bound proxy. The hard coding is required for Primary & Secondary domain names.



ONT N/W Locking Requirements Cont...

General Requirements:

- 8. Bridge mode should be disabled. All the required SERVICES should be present like, INTERNET, VOICE, TR069 and its required combinations.
- 9. Add the following <u>notes</u> in the respective hardcoded pages:
 - 9.a. @ftth.bsnl.in will be added to the username by default.
 - 9.b. .bsnl.in will be added to the VoIP domain name by default
- 10. In firmware version, BSNL should be displayed. Preferably prefixed with 'BSNL.'
- 11. After factory reset ONT should not go to default factory version, it should remain in BSNL hardcoded version. The firmware upgradations within the NW locked version should be allowed.



PPPoE WAN Configuration

WAN Configuration

Connectin Name:	1_INTERNET_R_VID_
Mode:	Route
IP Version:	IPv4 V
DHCP	O Get address via ISP
Static	O Get static address via ISP
PPPoE	● Use PPPoE
Enable NAT:	
Enable Vlan:	
Vlan ID:	900
802.1p:	0 ~
мти:	1492
Username:	bb°120700002 @ftth.bsnl.in @ftth.bsnl.in will be added to Username
Password:	



VOIP Configuration

Primary SIP Register			
Primary SIP Register Address:	ktk.ftth.ims	.bsnl.in	.bsnl.in will be added to the VoIP domain name
Port:	5060		
Secondary SIP Register			
Secondary SIP Register Address:	ktk.ftth.ims	.bsnl.in	.bsnl.in will be added to the VoIP domain name
Port:	5060		
Primary SIP Proxy			
Proxy Address:	ktk.ftth.ims	.bsnl.in	.bsnl.in will be added to the VoIP domain name
Enable Subscribe			
Port:	5060		
Enable Outbound Proxy			
Outbound Proxy Address:	ktk.ftth.ims.bsnl.in		
Outbound Proxy Port:	5060		
SIP Domain:	ktk.ftth.ims	.bsnl.in	.bsnl.in will be added to the VoIP domain name
Register Expire(sec):	3600		



Bridge Mode Disabled

WAN Configuration	ı	_	
Connectin Name:	1_INTERNET_R_VID.		
Mode:	Route		
IP Version:	Route		
DHCP	O Get address via ISP		
Static	O Get static address via ISP		
PPPoE	● Use PPPoE		
Enable NAT:			
Enable Vlan:			
Vian ID:	900		
802.1p:	0 ~		
MTU:	1492		
Username:	bb_ozzoroooz. @ftth.bsnl.in @ftth.bsnl.in will be added to Username		
Password:	•••••		
Service-Name:			
PPP type	Continuous		
Service Mode:	INTERNET V	•	

Firmware Version with BSNL

Device Info

Device model	CC CCCC:::C
Device SN	123451CITCCC1.A1B2
Hardware Version	V4.1
Firmware Version	V2.1.08-230103_BSNL
PON S/N	CCC:::::::::::::::::::::::::::::::::::

General Firmware Upgradation Error in locked version

Commit/Reboot

Upgrade Image

Timely Reboot

Load Default

Config File

Error: Incorrect model image file. Reboot 45

BSNL ACS(TR069) CONFIGURATION REQUIREMENT

- ACS / CWMP Menu Configuration settings:
- Enable Periodic Informing: YES
- ACS URL: http://acs.bsnl.in:7547
- (ONT should support HTTPS also for our future upgrade in ACS Server)

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ACS User Name: <blank>

ACS Password: <blank>

- Inform Interval Timer: 900 seconds
- Enable Certificate Authentication: NO

BSNL ACS(TR069) CONFIGURATION REQUIREMENT Cont...

- Note:-
- 1. ONT CWMP TR-069 Stack should support Bulk Parameter Values reading request from BSNL ACS Server.
- 2. ACS menu WAN Interface selection should allow TR069_INTERNET or TR_069 service type enabled WAN connection.
- 3. ONT should support HTTPS also for future upgrade in ACS Server with SSL encryption mode.

Security Requirements

- By default, all the ports should be blocked from WAN side. It should have the option to unblock the same on customer requirement.
- After entering the default password, the ONT should automatically prompt to change default password.
- Captcha should be enabled for ONT Login.
- By default, the firewall should be enabled and high.
- WPA2-AES for data confidentiality instead of WEP. WEP can be removed.
- WPS feature can be disabled by default.
- User logging can be enabled.

Contact Details & Address

- Email:-ffcbsnl@bsnl.co.in & ftth_bangalorenoc@bsnl.co.in
- Office:-080-22028883(FFC) & 080-22028885(FTTH NOC).
- Office Address:-
- FTTH(NOC). BBNW.
- 5th Floor.BSNL.
- Bangalore East Telephone Exchange.
- Lazar Road. Frazer Town.
- Bangalore -560006.
- Karnataka.