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# AT&T Gigabit Fiber Modem Bypass Using UniFi USG — Updated

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Disclaimer: I am not responsible for any issues that may occur as a result of following this guide. If you have any concerns about what you're doing, please stop and do your own research.

This new version of the guide requires no gateway.config.json and enables IPv6. Please note, it may take up to 2 weeks for IPv6 to start working if you already had an address leased.

I used the following versioned firmware/software to create this, you'll want to have these versions as a minimum. (These are stable release versions as of 11/2/2018)

- Cloud Key Controller: 5.9.29

- Cloud Key Firmware: UCK.mtk7623.v0.12.0.29a26c9.181001.1444

- USG Firmware: 4.4.29.5124210

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# Begin

First, we'll wire up our network.

The LAN port on the USG should be plugged into your LAN, the USG VOIP/WAN2/LAN2 port should be plugged into the ONT port on your Uverse modem, the cable from your ONT should be plugged into the USG WAN port.



Next, let's back up our UniFi config, this way if anything goes wrong we'll have a working config to revert back to.

Navigate to your UniFi controller web page and go to Settings > Maintenance > Backup > Download Backup.

Once the backup has downloaded, we can proceed by checking a few important settings.

First, we want to ensure we're not binding the VOIP port to WAN2.
To check this go to Settings > Site > Services and verify

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# Troubleshooting

If you're having difficulty stop and read the error messages.

You can see the USG's syslog at /var/log/messages, this may hold clues as to what the issue is. Use `tail -n 50 -f /var/log /messages` to keep up with any updates to the file.

If you see something like `[Errno 2] No such file or directory: '/sys/class/net/eth0.0/address')` in messages, reread though the guide and make sure you've followed the vlan setup step.

If eap_proxy works when you run the python command but doesn't function after a reboot, the issue is likely with your eap_proxy.sh file. Try to launch it manually with sh eap_proxy.sh and see if it returns an error. If you modified the file in windows before uploading, it may have invalid (for linux) line endings. If you think this may be the case, run `dos2unix eap_proxy.sh`.

If you're sure everything above is good, try power cycling the ONT and waiting a few minutes.

If you still can't figure out the issue there are a few places you can try for additional assistance,

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# Rollback

If you continue to have issues that you're unable to resolve it's probably time to roll back your configuration changes.

You'll to restore your USG backup. To do this, open your controller's webui and navigate to Settings > Maintenance > Restore > Choose File and upload the backup you took at the start of this guide. This should restore you back to the configuration you had at the time of your backup.

If you're unable to reach the webui, try power cycling the USG and waiting 5–10 minutes. As a final resort you can also reset to factory defaults by pressing the reset button for 10 seconds.

If you're still having trouble rolling back, I'd suggest asking for help on the official ubiquiti forums or reddit.

# Credits

eap_proxy: Jay Soffian (https://github.com/jaysoffian /eap_proxy)
To the members of DSL Reports, thanks for all your help (DSL Reports — Bypass Thread) and (DSL Reports — ATT TrueBridge Mode)

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