Gateway 3DS User Manual

For Nintendo 2DS/3DS Systems

w/ EmuNAND 10.4 Support

Version 3.7.2 – © Gateway Team 2016

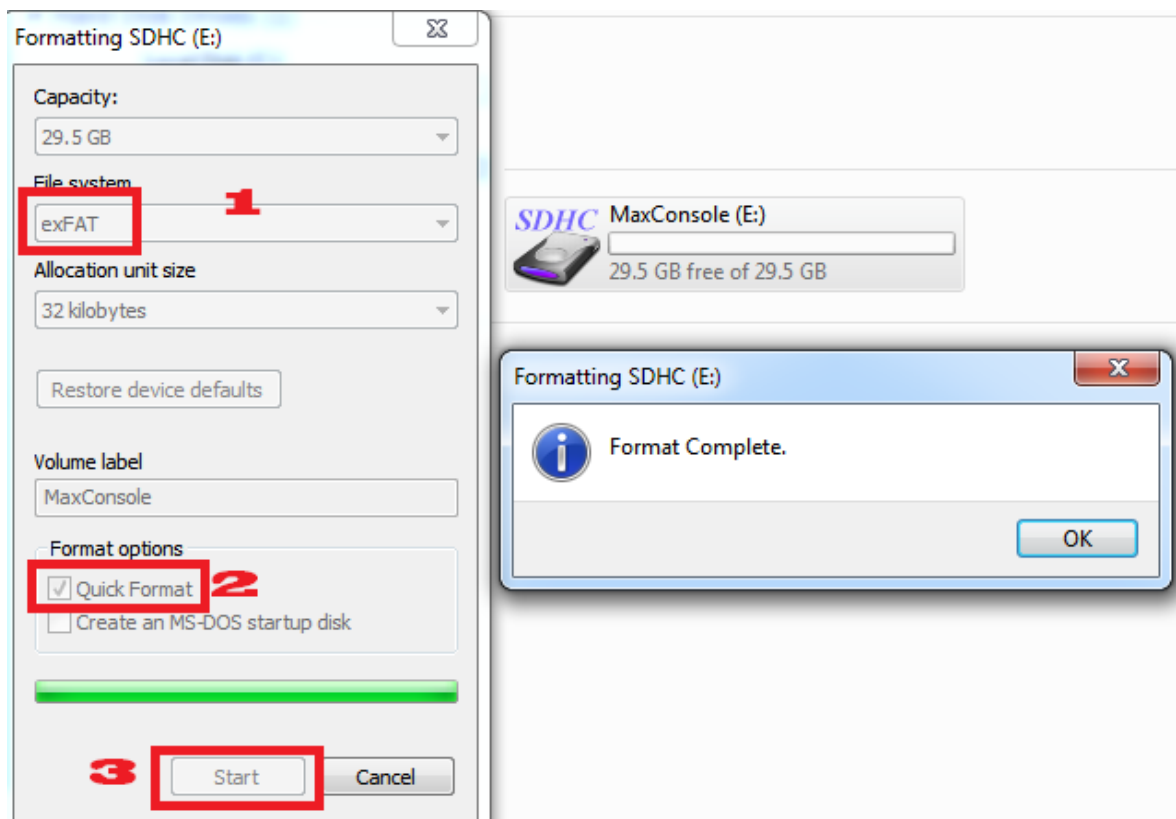# Table of Contents

Requirements:

- A 3DS on a firmware version between 8.x and 9.2
- A MicroSD Card for internal use and a MicroSD card for your Gateway cart(s)
- A Red Gateway flash cart
- A working WIFI connection for your 3DS to connect to
- The latest Gateway 3DS software package from http://gateway-3ds.com/downloads

Pre-Setup Tips:

- Make sure the WIFI on your 3DS is kept OFF at all times to avoid the Nintendo Update dialogue from a pre-downloaded update file unless expressly stated to turn it on.

- Make sure you have a valid wireless profile in your 3DS system menu

- Format the MicroSD for the Gateway Red cart as exFAT so you can place files over 4GB in size on them. Windows 7 and higher natively supports this from the Format menu in Computer/This PC.

- The SD card inside your 3DS should be FAT32, as it will not recognize exFAT.

- If you have files already on your SD cards, it's recommended that you erase/format them to remove complications during the setup and potential downgrade of your console

- If you have previously used Gateway 3DS to make a backup of a game cart, place one of your .3ds or .3dz files (a game ROM) on your MicroSD inside your Red Gateway cart so you can test it during the setup

Entering the Gateway Menu

(With Menuhax + Homebrew Launcher)

This is the preferred method for booting your system into Gateway Mode. Once set up, it is very fast and doesn't require an additional game or any modification of your sysNAND.

Requirements:

- Homebrew Launcher (HBL) Starter Pack (Get it [HERE](#))
- Menuhax Manager (Included in the HBL Starter Pack)
- If you are on a newer 3DS firmware (Higher than 9.2), **DO NOT** open your web browser app before doing the first few steps.

Step 1: Prevent updates and Browser Lockout by entering your System Settings and going to Internet Settings > Connection Settings > (Existing Connection) > Change Settings > Tap the Right Arrow on the screen > and finally choose DNS.

Step 2: Set the Auto-Obtain to "No" and then press Detailed Setup. Finally, set the Primary and Secondary DNS to 107.211.140.065 then press OK and Save the connection. You do not need to test the connection if it worked for you previously. If you are making a connection for the first time, be sure to set the DNS settings when it asks during the connection setup.

Step 3: Return to the Home Menu and select Change Theme from the Home Menu Settings popup (Top left corner). Choose a random theme, then put it back to "Do not use a theme". Power off the device and move your SD card to the PC for the next few steps.

Step 4: Extract the contents of the HBL Starter Pack to the root of your SD card, along with the latest Gateway "Launcher.dat" from the zip file. You will also want to extract the "GW_3DSX.zip" and place the folder labelled "GW" in the SD:\3ds\ folder along with the other applications from the HBL Starter Pack.

Name	Date modified	Type	Size
3ds **(Folder contents below)**	1/12/2016 9:21 PM	File folder	
Themes	9/17/2015 6:19 PM	File folder	
boot.3dsx	10/24/2015 9:59 PM	3DSX File	703 KB
Launcher.dat ●	1/3/2016 2:19 AM	DAT File	5,967 KB

● Files from Gateway zip

Name	Date modified	Type	Size
CHMM2	10/27/2015 12:33 PM	File folder	
ftbrony	10/25/2015 12:47 PM	File folder	
GW ●	12/24/2015 8:41 PM	File folder	
hans	10/25/2015 12:49 PM	File folder	
install	11/14/2015 6:02 PM	File folder	
menuhax_manager	12/27/2015 12:10 PM	File folder	
mgba	10/25/2015 12:47 PM	File folder	
qtm	10/25/2015 12:47 PM	File folder	
scrtool	10/25/2015 12:48 PM	File folder	
eshop.smdh	10/25/2015 4:18 PM	SMDH File	14 KB
eshop.xml	10/25/2015 12:55 PM	XML Document	1 KB
ironhax.smdh	12/27/2015 5:20 PM	SMDH File	14 KB
ironhax.xml	12/27/2015 5:13 PM	XML Document	1 KB
sploit_installer_oot3dhax.smdh	11/12/2015 4:17 PM	SMDH File	14 KB
sploit_installer_oot3dhax.xml	11/14/2015 6:02 PM	XML Document	1 KB

Step 5: Place the SD card into your 3DS and power it up. Open up the Web Browser app and navigate to: http://yls8.mtheall.com/3dsbrowserhax_auto.php **OR** you can press L+R at the Home Menu and click on QR and scan this QR Code:

Step 6: If successful, the 3DS should boot into HBL and give you a list of applications. If your 3DS appears to lock up or does not respond after 30 seconds, hold down the power button to power off the unit and try again.

Step 7: Select the Menuhax_Manager application and choose the 3rd option, Configure/Check Haxx Trigger. Select **Type 1** (Recommended) if you want the 3DS to boot to the Home Menu first, or **Type 2** to let the 3DS boot into HBL directly after power on.

Step 8: It will now ask you to select which button(s) you want to trigger the **Type 1** or **Type 2** effect. You may choose any button combination, but for ease of use, we recommend holding down **R** (Right Shoulder button) and then tapping the bottom touch screen. This will save the configuration file.

Step 9: Back on the main Manuhax_Manager screen (press B to go back a menu), select the Install option and let it configure your 3DS. You will get an installation successful message.

Step 10: Power off your 3DS. If you selected **Type 1** Installation, power your 3DS back on while holding **R** (or the button(s) you chose) and, after a few moments, it should boot into HBL (**Some screen artifacting and text output is completely normal during the boot process**).

If you selected **Type 2** Installation, powering on your 3DS will boot directly to HBL. If you need to return to your sysNAND Home Screen, hold down **R** (or the button(s) you chose) while powering on the system.

Step 11: Select the Gateway Launcher from the HBL list and you will boot into the Gateway Menu (by holding L) or directly into emuNAND if it was previously configured.

If you have problems, please visit the support forums and open a new topic with your issue: http://www.maxconsole.com/maxcon_forums/forums/108-Official-Gateway-3DS-Support-Forum

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Preparing a Boot Game

(For New 3DS if Menuhax + HBL does not work)

Game 1) Zelda: Ocarina of Time 3D

This method requires a 3DS/2DS on a firmware capable of entering Gateway Mode (for a one-time use to prepare the cartridge) **OR** a third-party save game dongle

Step 1: Place the latest Launcher.dat and the correct save file for Zelda: OoT3D (included in the archive) on the root of the 3DS/2DS internal SD Card.

Step 2: Boot the 3DS/2DS system to the Gateway Menu, insert the original Zelda: OoT3D cartridge, and choose Restore 3DS Save. Please note that this will erase all of your existing save slots on the cartridge.

Step 3: You may now power down the 3DS/2DS console and remove the original Zelda: OoT3D cartridge. It is now ready for future use in booting the New 3DS to the Gateway Menu.

If you are using a third-party save game dongle, follow the manufacturer's directions and restore the included save game file to your original cartridge and proceed to the next step.

Game 2) Cubic Ninja

Step 1: Start up Cubic Ninja regularly and from the Main Menu, choose Create, QR Code, then finally Scan QR Code.

Step 2: With WIFI Enabled, scan the corresponding QR Code Here for your region and the exploit will install itself permanently to the cartridge and boot you to the Gateway Menu straight away. **If your game becomes corrupted, press and hold L+R+X+Y at the main Cubic Ninja menu to clear the Gateway exploit from it.**

Entering the Gateway Menu
(With a Boot Game)

Step 1: Copy the latest Launcher.dat to the root of your internal MicroSD card. To save time, you can use the Wireless SD Management for this step (see the New 3DS User Manual for instructions).

Step 2: Insert your Boot Game into the New 3DS and start it like normal from the Home Screen.

Zelda: Ocarina of Time 3D

Step 3: Press Start on the title screen to get to the Save Selection. Choose the First save slot and it will load the game. **If your save shows as corrupted, please watch for the fixed save files on the Gateway website (coming soon).**

Step 4: Once you can see the character (Link) on screen and his "A Check" action button lights up in the lower right hand corner, press the A button to launch into the Gateway Menu.

Cubic Ninja

Step 3: From the Main Menu, select the Create option, then the QR Code option and the Gateway Menu should boot right away.

If your system hangs for more than 15 seconds after trying to boot to the Gateway Menu, you will need to power the unit down by holding the power button for about 10 seconds. Once it is off, you can power it back on and try booting to the Gateway Menu again.
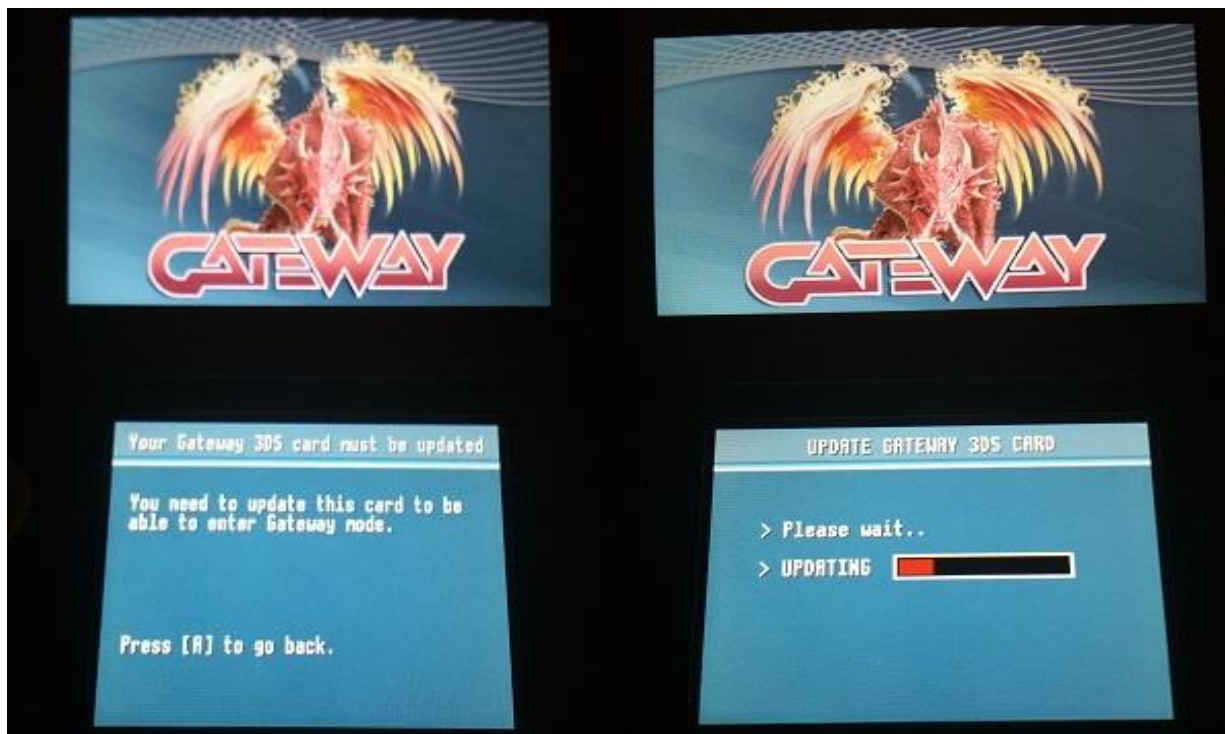

Updating the Red Cart

Step 1: Transfer the latest Gateway 3DS Launcher.dat (located inside the downloaded archive) onto your 3DS MicroSD card with your PC, then insert the card into your 3DS.

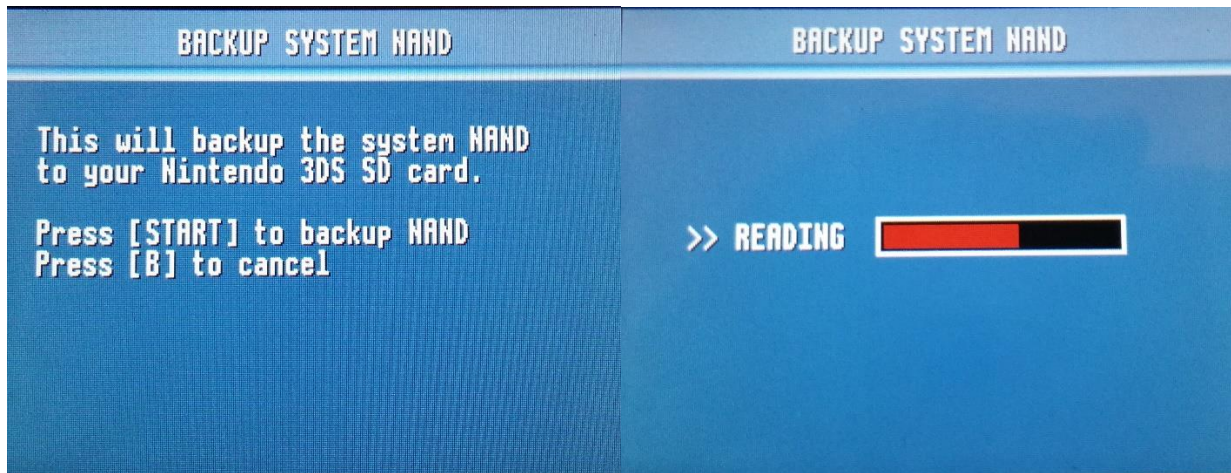**Step 2:** Place the Gateway 3DS Red cart inside the 3DS game cart slot

Step 3: From the Gateway Menu, choose the option "Boot Gateway Mode" to be taken to the update screen where you can get the latest firmware on your Gateway 3DS Red cart. Follow the steps to begin updating your cart. This process takes about a minute, but you may want to have your power cord plugged in, just to be safe.

Backing up SysNAND

Step 1: Insert a MicroSD card into your 3DS with at least 2GB of free space, making sure it is formatted as FAT32

Step 2: From the Gateway Menu, use the Directional Pad to navigate to the "Backup System NAND" option and select it.

Step 3: Once the SysNAND (System NAND) backup is complete, shut off your 3DS and remove the internal MicroSD card, plug it into your PC, and copy the NAND.BIN file that you have created to your PC for safe keeping. Alternatively, you can use the Wireless SD Management function, but it is a much slower transfer speed.
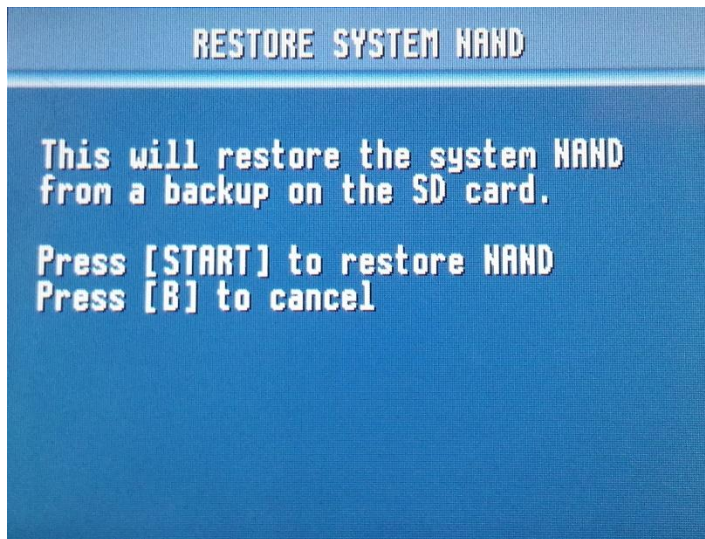
Restoring SysNAND

It is very important that you do not attempt to restore the SysNAND from another console to your 3DS. You must only restore the SysNAND that was created from the console you are trying to restore it to. Failure to do this will cause your 3DS to no longer be usable.

Step 1: Insert a MicroSD card into your 3DS with the NAND.BIN you created earlier with the Backup System NAND feature.

Step 2: From the Gateway Menu, use the Directional Pad to navigate to the "Downgrade Console" option. Press and hold the Up directional key and press A to enter the "Restore System NAND" mode.
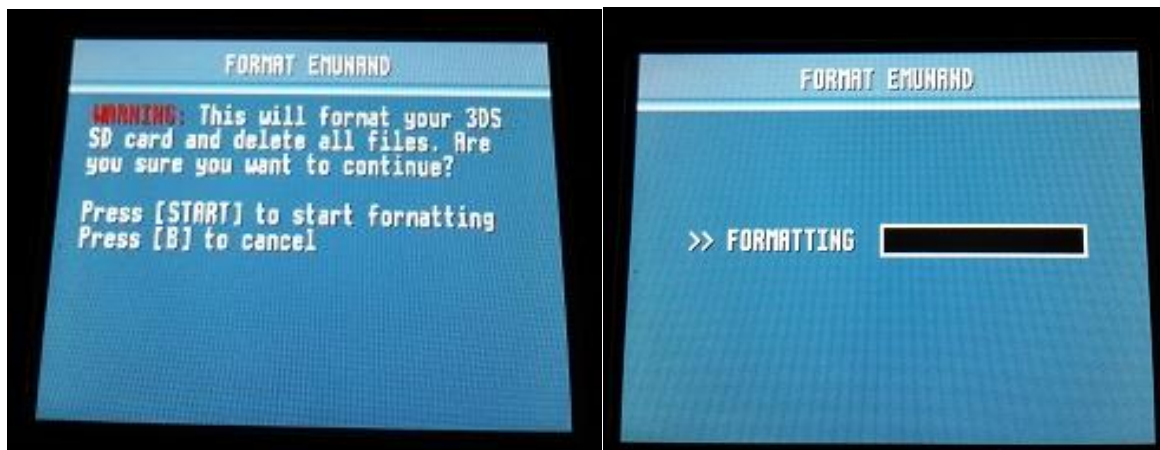

Step 3: When the process has completed, shut off your 3DS when prompted. The process will now be complete and you may turn your console back on.

EmuNAND Setup

Step 1: Insert your MicroSD card (Configured with Menuhax/HBL/GW Launcher) into your 3DS. It is recommended you use at least a 16GB capacity or higher, formatted as FAT32, so that you have plenty of room to install games and downloadable content in the future.

Step 2: From the Gateway Menu, select "Format EmuNAND" -- this will ERASE THE SD CARD INSIDE YOUR 3DS -- INCLUDING YOUR GAME SAVES AND DLC and configure it for EmuNAND use.

Step 3: Once the process has finished, choosing the "Boot Gateway Mode" option will place you to the EmuNAND (Emulated NAND) Home Screen.

Step 4: Once you have booted into Gateway Mode/EmuNAND, please close the top screen (Placing the system into Sleep Mode) and open it again to fix the 3D rendering/facial tracking features. This bug will be resolved in later versions.

Step 5: Power off the system and remove the SD card. You need to set up Menuhax/HBL one more time now that the SD is prepared for EmuNAND.

DO NOT remove your internal SD card while in EmuNAND mode! Your SD card is acting like a hard drive for the console, removing it from the system while it is on will make the 3DS crash, much like removing the hard drive from a running computer will.
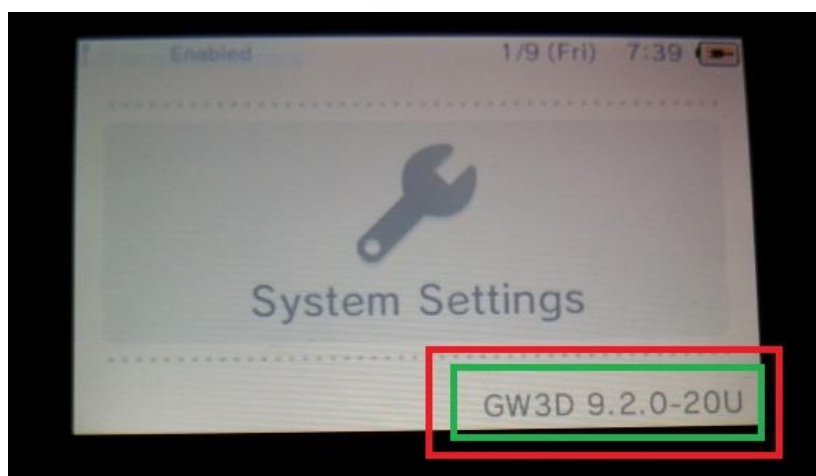
Updating EmuNAND

It is important that you DO NOT EXIT your Settings menu at any point before or during the setup and updating of your EmuNAND. Doing so will force you out of Gateway Mode and back to the SysNAND where you MAY ACCIDENTALLY UPDATE YOUR SYSNAND FIRMWARE.

Step 1: With EmuNAND configured, go to the Gateway Menu and select "Gateway Mode"

Step 2: Enter the System Settings and look for "GW3D" preceding your firmware version:
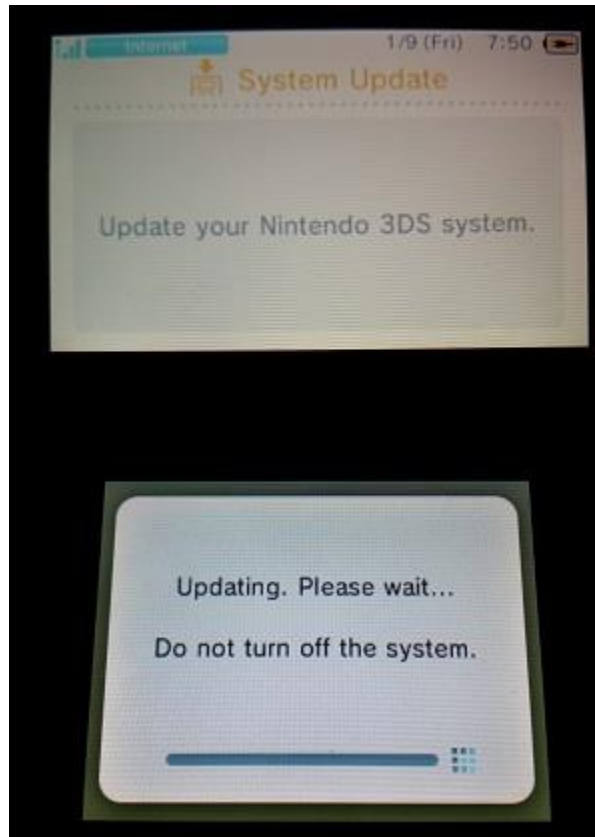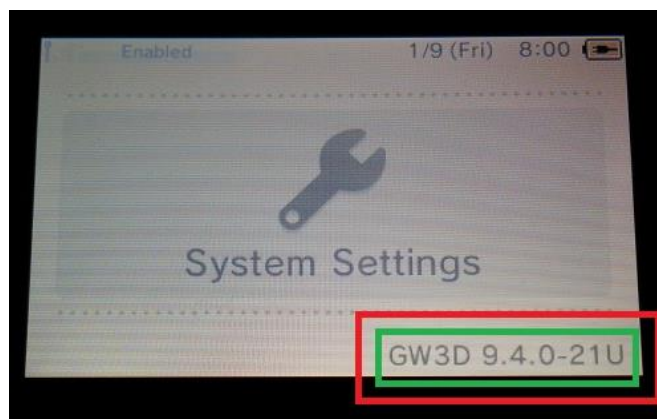

!!! STOP HERE !!!

DOES YOUR 3DS SAY "GW3D" BEFORE THE VERSION NUMBER?
IF NOT, START OVER. IF YOU KEEP GOING WITHOUT "GW3D" YOU
WILL UPDATE YOUR SYSNAND AND BE LOCKED OUT OF GATEWAY!

Step 3: DO NOT LEAVE THE SETTINGS MENU AT ANY POINT. Choose "Other Settings" and on Page 4 you will find the "System Update" option. Turn your WIFI on and select this option. Let it download and apply the update to your EmuNAND.

Step 5: After your system reboots, it will place you back in SysNAND. Return to the Gateway Menu without holding L and it should automatically place you back into EmuNAND. Check the System Settings again to verify the update. Leaving settings will always place you in SysNAND.

Creating Game Backups

Step 1: Make sure to have a MicroSD card with plenty of free space inside the 3DS. You may use the same SD card that your EmuNAND is set up with for this step.

Step 2: Place the original game cartridge that you wish to back up into the cartridge slot on your 3DS.

Step 3: From the Gateway Menu, select "Backup 3DS Game Cartridge". Take note of the Game Code during this process, which can take up to 20 minutes for very large games.

Step 4: Once the process completes, shut off your 3DS and remove the internal MicroSD card. Place the SD card into your computer and you will find a ROM file with the same name as the Game Code. Move this file to your computer for later use, as it cannot be played from the internal SD card. Alternatively, you can use the Wireless SD Management for this step, however it is a much slower transfer speed.

When creating your game backups, it's a good idea to rename the extension of your ROM from .3ds to .3dz on your computer – this tells the Gateway system it is compatible for online play. Note that this will only work for games you have backed up yourself and does not work for game ROMs you may have obtained elsewhere.

Launching Game Backups

When playing a game backup, you must press Home and then Close the software to write the save file to the 3DS MicroSD card. If you skip this step, your current save games will be lost. Depending on the size of the save file and your MicroSD card speed, this could take some time. Please be patient while it closes the software.

Step 1: Place your game ROMs onto a MicroSD card with your computer, they can be either in .3ds or .3dz format. It is recommended that you format your MicroSD card as exFAT so that it can hold files larger than 4GB in size. Place this inside your Gateway Red cart and then insert both into the game cart slot on your 3DS/2DS.

Step 2: From the Gateway Menu, select "Boot Gateway Mode". Note that while EmuNAND setup is not required to play game backups, it is recommended so that you can apply game updates and participate in online features, such as multiplayer.

Step 3: From the 3DS Home Menu, press the Select button and a ROM selector will appear on your top screen:

Step 4: Using the Directional Keys, select the game backup you wish to play and press A. This will change the cartridge panel on your bottom screen to that of the selected game backup. Choosing this will then take you into the game just like a normal cartridge would.

Support for .cia Files

Requirements:

- While EmuNAND setup is not required, it is STRONGLY recommended. A bad write while in your SysNAND could result in a non-functioning 3DS unit

- A .cia manager application. While Gateway 3DS supports .cia files, it does not natively contain a method to install/remove them. There is third party application by BigBlueBox Team called Title Manager that you can use to do this.

Step 1: Place the .cia manager (in .3ds format) on the root of your Gateway Red MicroSD card. If it is in .cia format, you need to re-download it as .3ds format.

Step 2: With your 3DS system off, remove the internal MicroSD card and copy your .cia file to it with your computer. The .cia file does not need to be in the root of the MicroSD card as BBM (Big Blue Manager) supports folder browsing. Place the card back inside your 3DS when finished. You can use the Wireless SD Management function for this step, however it has very slow transfer speeds.

Step 3: From the Home Menu in Gateway Mode (EmuNAND recommended) press Select to open the Multi ROM selector, choose the BBM (called "Title Manager") and press A. This will change the cartridge tile on your bottom screen to BBM which you can then launch.

Step 4: Using the Directional Keys, navigate to the "SDMC" listing, then navigate to the folder you placed your .cia in. Highlight your file and press A to "import" (install) it. You may also remove any installed .cia files from this menu as well.

Step 5: When finished, press the Home button and Close the app. On the Home Screen, you should now see your .cia app installed and ready to use.

Applications and Games that are installed in Gateway Mode will only function in Gateway Mode and will produce errors when you try to run the applications from SysNAND or Classic Mode.

DS Profile Exploit Setup

(For New 3DS Systems ONLY if Menuhax + HBL fails)

Step 1: Make sure to have the latest Launcher.dat on your internal MicroSD. You will also need to copy the proper mset_xxx.cia for your region (where xxx is your region code) to your internal MicroSD.

Step 2: You will need to locate a copy of devmenu.3ds and place it on your Gateway MicroSD card. (You will need to use Google or ask a friend for a copy of the application)

Step 3: Power on your New 3DS and using your boot game, boot to the Gateway Menu. Select the "NVRAM INSTALL" option and follow the prompts until it has finished.

Step 4: Place the cursor over "BOOT GATEWAY MODE" and **Hold B then Press A, then Press X by itself** to boot to SysNAND Gateway Mode. **Caution! Do not use SysNAND Gateway Mode except to perform this operation as anything done to the New 3DS in this mode will apply directly to the system itself and could cause damage!**

Step 5: Press Select and choose the DevMenu ROM from the list (You MUST use DevMenu, other .cia installers will NOT work). Boot the DevMenu ROM and Press Right one time to get to the Import tab. Use the Down Key to navigate to your mset_xxx.cia file and press A to import/install it.

Step 6: When the import/install has finished, press the Home Key, then Close the software. Shut off your New 3DS at this point. The DS Profile Exploit has now been successfully installed on your New 3DS system.

Using the DS Profile Exploit

Running a DS ROM or DS application will remove the DS Profile Exploit from your system and will require you to reinstall it.

Step 1: With the DS Profile Exploit installed and Gateway Red cart in your game slot, turn on your New 3DS and open the System Settings.

Step 2: Select "Other Settings" followed by "Profile" and finally "Nintendo DS Profile". This will cause your New 3DS system to load the Gateway Menu and will automatically load Gateway Mode if you have it set up already.

To get to the Gateway Menu without launching directly into Gateway Mode, hold the Left Shoulder button immediately after selecting "Nintendo DS Profile"

Using Cheats / Mode / Language Override

Step 1: Copy the Cheats folder from the Gateway zip file onto the Red Cart MicroSD card.

Step 2: Once booted into Gateway Mode, press Select to bring up the ROM selection menu. From here, press the UP key and you will have access to override the language (Great for forcing a particular language if you are playing out-of-region games!), switch modes, and enabling the Cheat Menu.

Step 3: Select the language you want (or leave it on AUTO) and change the "Ingame Menu Button" from "OFF" to one of the pre-set key combination (or you can choose your own) then press B. It is not necessary to select a ROM from the list if you plan to play a .cia based game.

Step 4: Launch your desired ROM or .cia based game and test the In-Game Menu by pressing your chosen key combination. Keep in mind, most of the Cheat functions require free space on the mSD card inserted into the Gateway Red cart.

You now have several options. You can either create your own cheats by searching and modifying the desired value, or you can download pre-made Cheat Lists for specific games. Both can be entered and modified from within the In-Game Menu and saved directly to the SD card!

Mode Descriptions:
GATEWAY – Select button replaces Game Slot on Home Menu with selected ROM file
CLASSIC – Retail cartridge can be used in Game Slot with sysNAND's default save encryption
CLASSIC 7.X- – Retail cartridge can be used with Forced < 7.x Save Encryption
CLASSIC 7.x+ – Retail cartridge can be used with Forced > 7.x Save Encryption

Editor Controls:
X – Edit Selected Cheat / Add Search Hit to Cheat List
Y – Delete Selected Cheat
Start – Save Code List as a New Cheat to Gateway mSD

If you want to download pre-made cheats, please visit one of these sites:

www.max-cheats.com **--** http://fort42.cu.cc/gateshark/

Troubleshooting and Tips

Problem: 3D won't activate properly/Facial Tracking does not work (New 3DS Only)
Solution: Please place the system into Sleep Mode by closing the top screen, waiting a moment, then waking the New 3DS from Sleep Mode by re-opening the top screen. This will re-activate the 3D features. You only need to perform this once after every fresh boot into Gateway Mode.

Problem: Games won't download/install Game Updates
Solution: Visit the e-Shop while in EmuNAND and download the update from there. It will automatically apply the next time you start the game

Problem: "Fragmentation Error" when selecting a ROM on the 3DS/2DS
Solution: This means your ROM file is not stored in consecutive blocks on your MicroSD card inside your Gateway Red cart. Try deleting the ROM and copying it to the MicroSD card again. If this fails, try reformatting your MicroSD and copying all your ROM files to it at the same time to ensure proper alignment. If the problem persists, you can obtain a tool from the Gateway website to help defragment the ROM files on your MicroSD card.

Problem: Screen becomes garbled or system locks up trying to enter the Gateway Menu
Solution: Unfortunately, this can occur every once in a while due to the nature of the system. First, make sure you have the latest Launcher.dat on your internal SD Card. If your 3DS/2DS crashes, you may have to hold the power button for 10-15 seconds for it to shut down completely. If the problem occurs frequently, please visit the support forums and open a new discussion with your symptoms.

Problem: After the installation of a .cia file, you must "unwrap" the application after every boot
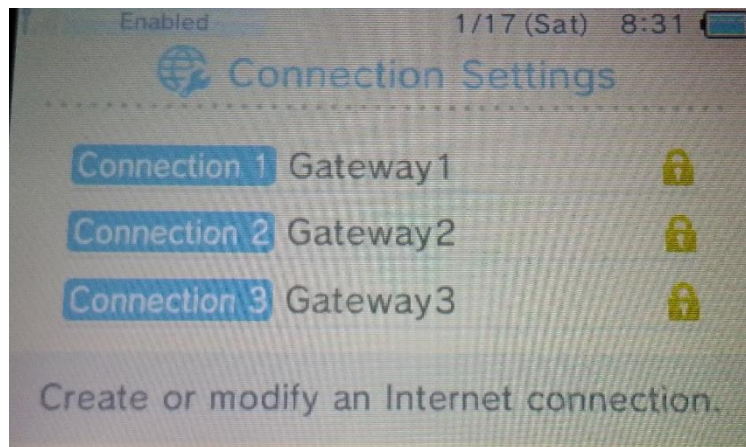**Solution:** Remove your internal SD card and Gateway Red cart. Power the system on and do a system format from the System Settings menu. Once finished, power the system down and replace the SD card and Gateway Red cart. Power the system back on and test again.

For additional help, please visit the support forums and open a new topic with your issue: http://www.maxconsole.com/maxcon_forums/forums/108-Official-Gateway-3DS-Support-Forum
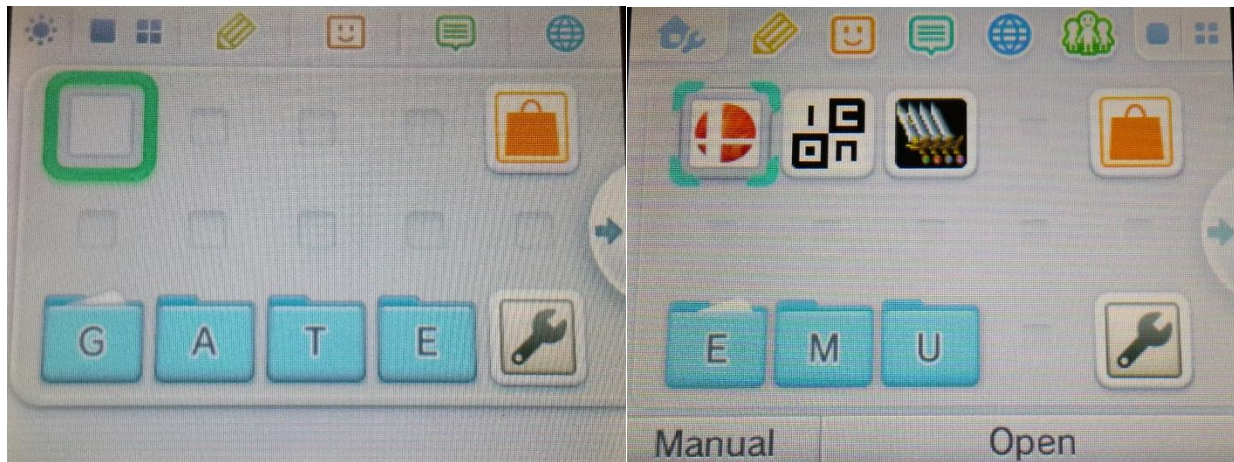

- Lending your 3DS to an unexperienced player or young child? You can set up "dummy" Access Points so it is impossible to access the internet from SysNAND and accidentally run any updates. EmuNAND keeps a separate set of Access Points to get online with.

Select a manual setup and type in a random AP name and random 8 character password

- Want an easy way to tell if you are in SysNAND or EmuNAND? Use the Home Screen folders!

4.2 SysNAND   9.4 EmuNAND

Retail Cartridge Support

Step 1: From the Gateway Menu, select "Classic Mode". This will boot your system to the EmuNAND Home Screen.

Step 2: At the Home Screen, insert your retail cartridge and it will show up and work as normal.

While in Classic Mode installed .cia applications and ROM files will not work. You must return to Gateway Mode to use these features.

System Transfer

(From 3DS/2DS to New 3DS)

Requirements:

- Your 3DS/2DS **AND** New 3DS systems must be booted into EmuNAND and be on the latest firmware version. Refer to the guide for setting up and updating of EmuNAND

- It is best to perform this operation right away after first acquiring your New 3DS system and setting up Gateway3DS, as having an unlinked EmuNAND may complicate the process

Step 1: On the 3DS/2DS system you want to transfer, boot to EmuNAND and remove the Red Cart. Use it to boot your New 3DS to EmuNAND as well and then remove the Red Cart from it too.

Step 2: On both consoles, enter the System Settings, tap Other Settings, and finally choose System Transfer.

Step 3: Follow the on-screen prompts, being careful to choose Regular SD Card when prompted on the 3DS/2DS system (do not select MicroSD even if you have one).

- On the 3DS/2DS select as Sending Unit
- On the New 3DS select as Receiving Unit

Step 4: When prompted, choose NOT to format the New 3DS system and continue following the prompts on both consoles.

Step 5: When the New 3DS reboots and you try to enter EmuNAND again, the System Transfer will resume and you will *most likely* be given an error and told to reboot. If this happens, reboot to SysNAND, disable/enable the WIFI, and boot back to EmuNAND again to complete the process.
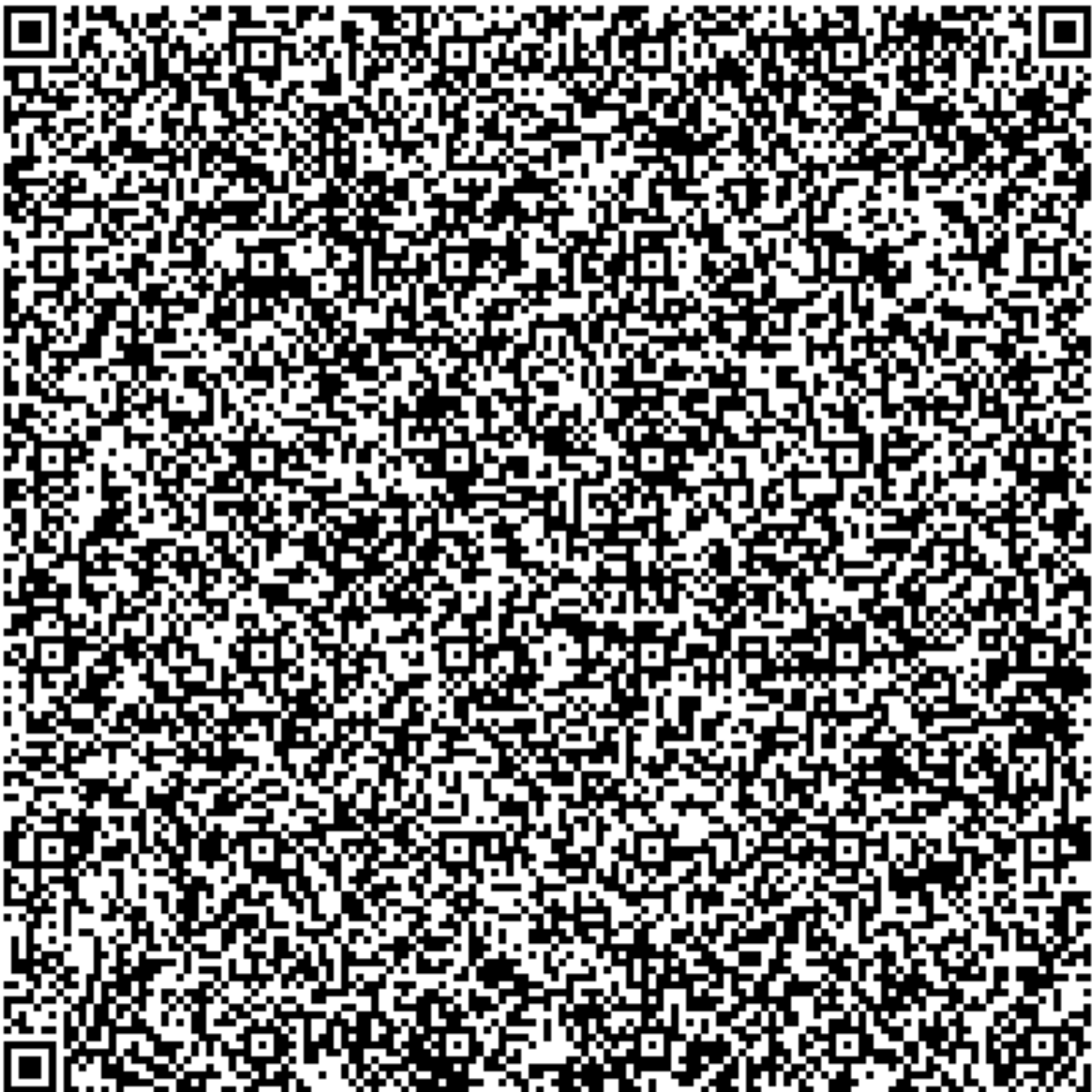
Preventing System Updates

Step 1: Prevent updates and Browser Lockout by entering your System Settings and going to Internet Settings > Connection Settings > (Existing Connection) > Change Settings > Tap the Right Arrow on the screen > and finally choose DNS.
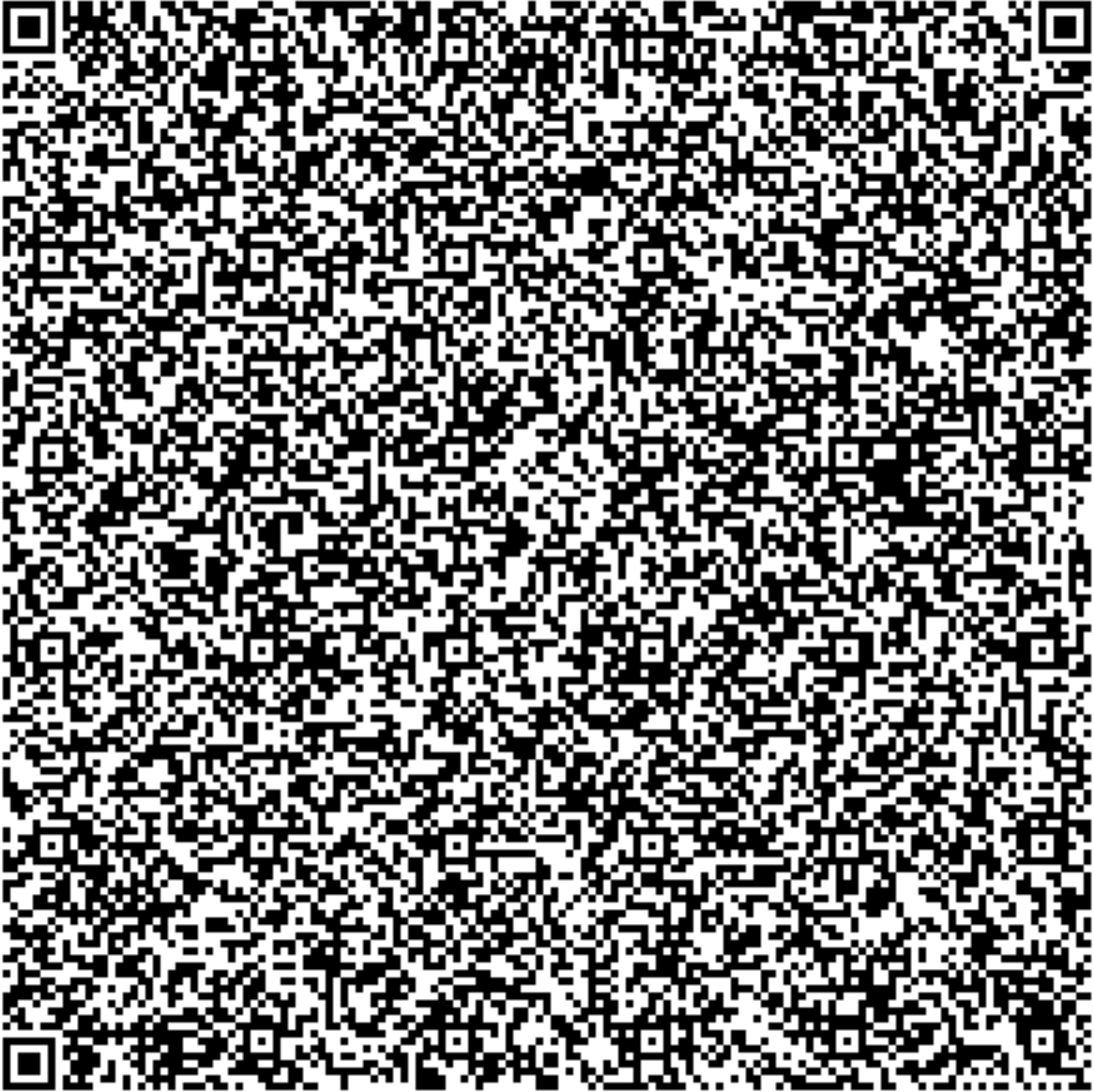
Step 2: Set the Auto-Obtain to "No" and then press Detailed Setup. Finally, set the Primary and Secondary DNS to 107.211.140.065 then press OK and Save the connection. You do not need to test the connection if it worked for you previously. If you are making a connection for the first time, be sure to set the DNS settings when it asks during the connection setup.

Cubic Ninja QR Codes

North America/Europe

Japan

Easter Eggs/Extras

1. While in the Gateway Menu, you can hold Down on the Directional Pad and Press B to do a quick shutdown.