

# Unique solution to a camera firmware lock issue

The following solution has been developed by myself and published on 5th Aug. 2019

[SOLVED] Xiaomi Xiao Yi HOME CN12 – This camera can only be used within China

<https://controsensi.blogspot.com/2019/08/solved-xiaomi-xiao-yi-home-cn12-this.html>


controsensi

lunedì 5 agosto 2019

## [SOLVED] Xiaomi Xiao Yi HOME CN12 – This camera can only be used within China

**[UPDATE!]** 2019 08 06: The provided fix works also with the latest firmware ver. 1.8.7.0C\_201705091058

**[HINT!]** Direct downgrade from firmware ver. 1.8.7.0C to ver. 1.8.6.1 isn't possible. You need to first downgrade to ver. 1.8.5.1 (I used 1.8.5.1K\_201508311131), then upgrade to ver. 1.8.6.1



### THE STORY

This last 14th July a friend of mine has appointed me to fix his camera Yi Home 720P model CN12 which all of the sudden, after an unintentional consent to the camera firmware upgrade, stopped to work. The camera would say "This camera can only be used in China" and would shut down. I first tried the "old school" fix... which was to downgrade the camera firmware to one of the 2015 versions.

To my great dismay with none of the five, year 2015 (1.8.5.1 B to N), "region unlocked", original firmwares for CN model that I tried, the camera were able to connect to the given Wi-Fi network (it took me hours of attempts to rule out the possibility that there was something wrong on the Wi-Fi settings or on the camera hardware, and that instead the failure on connecting to the Wi-Fi was only due to the firmware and Yi Home app versions in use. Grrrrrrr )

Only with use of year 2016 firmwares (1.8.6.1 A to B) the camera were able to connect to the local Wi-Fi, but then the "region lock" were operative and the camera would shut down soon after saying "This camera can only be used in China". That was the 1ST "NO GO".

I realized that the manufacturer have been able to prevent the use of old firmwares by

**Archivio blog**

- ▼ 2019 (1)
  - ▼ agosto (1)
    - [SOLVED] Xiaomi Xiao Yi HOME CN12 – This camera ca...
- ▶ 2016 (2)
- ▶ 2015 (3)
- ▶ 2014 (2)
- ▶ 2013 (2)
- ▶ 2012 (3)
- ▶ 2011 (1)
- ▶ 2010 (1)
- ▶ 2009 (3)
- ▶ 2008 (11)
- ▶ 2007 (2)

**Informazioni personali**

halnovemila

Visualizza il mio profilo completo

# Hardware, software, videos and other works/solutions I published

On my (draft) website, I store a collection of my unique hardware and software works I've done and published over the years, and a couple of YouTube videos related to a solution I developed on Android.

<http://www.controsensi.it/>

Questa è la prima pagina di halnovemila :)

**Novità!** [DU Traffic Reset & Run](#)

Sequenza foto relative ad intervento di pulitura su stampante Compuprint 815 F-16 Nozzle & AfterBurner page

### The modS\_Section

<a href="#">X800PRO 16 pipeline unlock mod</a>	<a href="#">Arctic Cooling NV5 Silencer on 6600GT AGP mod</a>	<a href="#">Thermaltake TGM ND1 on ATI HD3850 AGP mod</a>	<a href="#">Asrock 4CoreDual-Sata2 mod</a>

[Archivio inserzioni eBay](#)  
[Very Undocumented Informations](#)  
[Altro](#)  
[Tail 69° Squadrone \(prove\)](#)  
[Only for My Good Bro Kaze :\)](#)  
[What i wrote that made Polygon so angry](#)

### Controsensi Blog

CPU Multiplier and HT/RAM ratio finder - by halnovemila (23/03/2008)																				
CPU MUL	HT/RAM ratio 1:1				HT/RAM ratio 4:3				HT/RAM ratio 3:2				HT/RAM ratio 5:3				HT/RAM ratio 2:1			
	CPU	RAM	D1	D2	CPU	RAM	D1	D2	CPU	RAM	D1	D2	CPU	RAM	D1	D2	CPU	RAM	D1	D2
8	1600.00	100.00	16	16	1600.00	133.33	12	12	1600.00	160.00	10	11	1600.00	177.78	9	10	1600.00	200.00	8	8
8.5	1700.00	100.00	17	17	1700.00	130.77	13	13	1700.00	154.55	11	12	1700.00	170.00	10	11	1700.00	188.89	9	9
9	1800.00	100.00	18	18	1800.00	128.57	14	14	1800.00	163.64	11	12	1800.00	180.00	10	11	1800.00	200.00	9	9
9.5	1900.00	100.00	19	19	1900.00	126.67	15	15	1900.00	158.33	12	13	1900.00	172.73	11	12	1900.00	190.00	10	10
10	2000.00	100.00	20	20	2000.00	133.33	15	15	2000.00	166.67	12	14	2000.00	181.82	11	12	2000.00	200.00	10	10
10.5	2100.00	100.00	21	21	2100.00	131.25	16	16	2100.00	161.54	13	14	2100.00	175.00	12	13	2100.00	190.91	11	11
11	2200.00	100.00	22	22	2200.00	129.41	17	17	2200.00	157.14	14	15	2200.00	183.33	12	14	2200.00	200.00	11	11

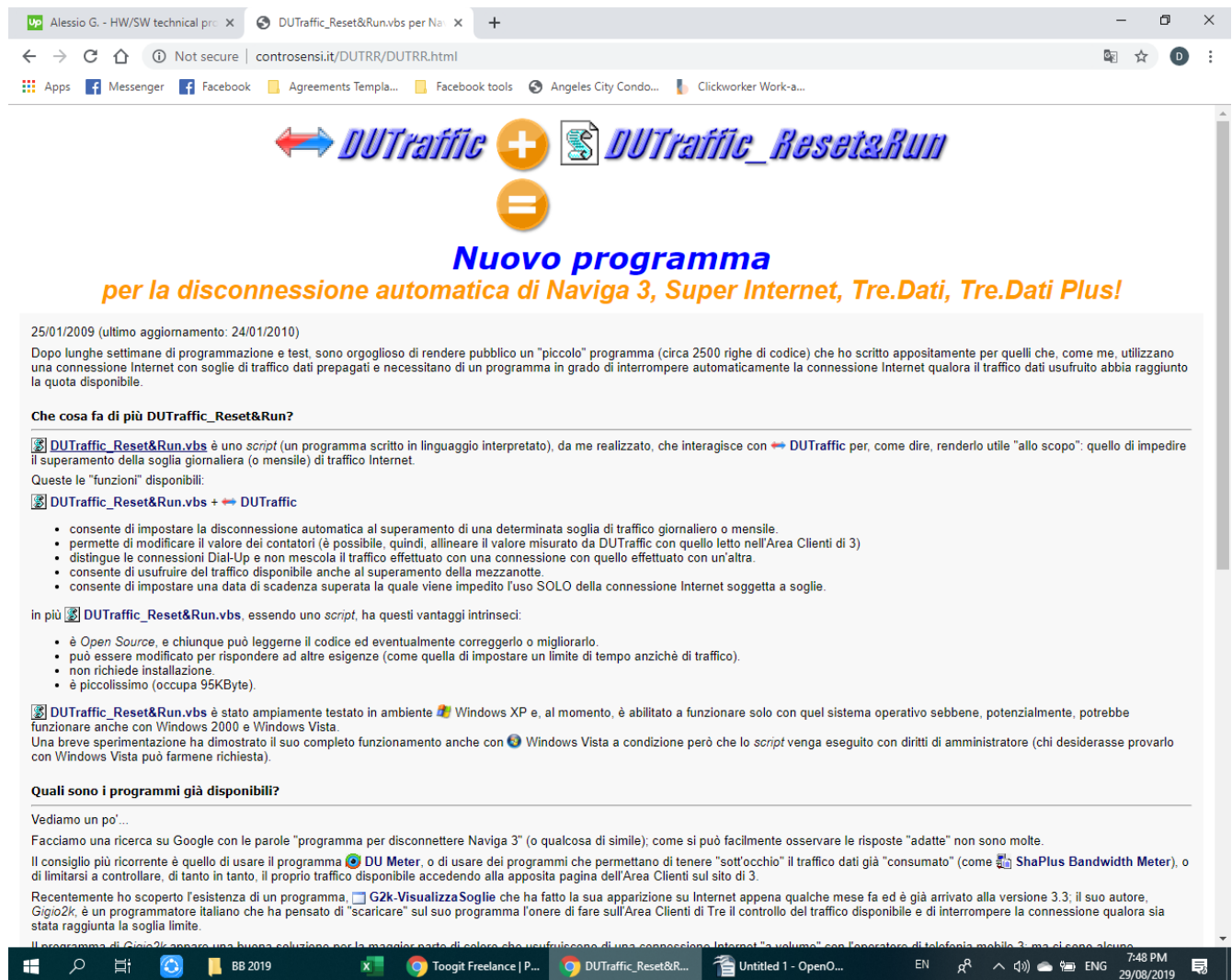
# DUTraffic\_Reset&Run: unique automated solution

On 25th Jan 2015 I published a complete unique automated solution based on the use of Windows Shell Scripting commands together with a third party freeware.

The final WSH code was of about 1500 lines.

I also wrote and published a comprehensive documentation on how to install and use.



<http://www.controsensi.it/DUTRR/DUTRR.html>





25/01/2009 (ultimo aggiornamento: 24/01/2010)

Dopo lunghe settimane di programmazione e test, sono orgoglioso di rendere pubblico un "piccolo" programma (circa 2500 righe di codice) che ho scritto appositamente per quelli che, come me, utilizzano una connessione Internet con soglie di traffico dati prepagati e necessitano di un programma in grado di interrompere automaticamente la connessione Internet qualora il traffico dati usufruito abbia raggiunto la quota disponibile.


### Che cosa fa di più DUTraffic\_Reset&Run?

 **DUTraffic\_Reset&Run.vbs** è uno *script* (un programma scritto in linguaggio interpretato), da me realizzato, che interagisce con  DUTraffic per, come dire, renderlo utile "allo scopo": quello di impedire il superamento della soglia giornaliera (o mensile) di traffico Internet.



Queste le "funzioni" disponibili:


 **DUTraffic\_Reset&Run.vbs** +  DUTraffic

- consente di impostare la disconnessione automatica al superamento di una determinata soglia di traffico giornaliero o mensile.
- permette di modificare il valore dei contatori (è possibile, quindi, allineare il valore misurato da DUTraffic con quello letto nell'Area Clienti di 3)
- distingue le connessioni Dial-Up e non mescola il traffico effettuato con una connessione con quello effettuato con un'altra.
- consente di usufruire del traffico disponibile anche al superamento della mezzanotte.
- consente di impostare una data di scadenza superata la quale viene impedito l'uso SOLO della connessione Internet soggetta a soglie.

In più  **DUTraffic\_Reset&Run.vbs**, essendo uno *script*, ha questi vantaggi intrinseci:

- è *Open Source*, e chiunque può leggerne il codice ed eventualmente correggerlo o migliorarlo.
- può essere modificato per rispondere ad altre esigenze (come quella di impostare un limite di tempo anziché di traffico).
- non richiede installazione.
- è piccolissimo (occupa 95KByte).



 **DUTraffic\_Reset&Run.vbs** è stato ampiamente testato in ambiente  Windows XP e, al momento, è abilitato a funzionare solo con quel sistema operativo sebbene, potenzialmente, potrebbe funzionare anche con Windows 2000 e Windows Vista.


Una breve sperimentazione ha dimostrato il suo completo funzionamento anche con  Windows Vista a condizione però che lo *script* venga eseguito con diritti di amministratore (chi desiderasse provarlo con Windows Vista può farsene richiesta).

### Quali sono i programmi già disponibili?

Vediamo un po'...

Facciamo una ricerca su Google con le parole "programma per disconnettere Naviga 3" (o qualcosa di simile); come si può facilmente osservare le risposte "adatte" non sono molte.

Il consiglio più ricorrente è quello di usare il programma  DU Meter, o di usare dei programmi che permettano di tenere "sott'occhio" il traffico dati già "consumato" (come  ShaPlus Bandwidth Meter), o di limitarsi a controllare, di tanto in tanto, il proprio traffico disponibile accedendo alla apposita pagina dell'Area Clienti sul sito di 3.

Recentemente ho scoperto l'esistenza di un programma,  G2k-VisualizzaSoglie che ha fatto la sua apparizione su Internet appena qualche mese fa ed è già arrivato alla versione 3.3; il suo autore, *Gigio2k*, è un programmatore italiano che ha pensato di "scaricare" sul suo programma l'onere di fare sull'Area Clienti di Tre il controllo del traffico disponibile e di interrompere la connessione qualora sia stata raggiunta la soglia limite.

Il programma di *Gigio2k* appare una buona soluzione per la maggior parte di coloro che usufruiscono di una connessione Internet "a volume" con l'operatore di telefonia mobile 3, ma ci sono alcune

# Small app for Android

On December 2014 I've written the code for a sort of wrapper app for Android that allows to call the notification service and build, trigger, customize notifications via shell commands.

Then on April 2017 I published the code on GitHub along with usage Wiki documentation.

<https://github.com/halnovemila/Notify4Scripts>

The screenshot shows a web browser displaying the GitHub repository page for 'halnovemila/Notify4Scripts'. The browser's address bar shows the URL 'github.com/halnovemila/Notify4Scripts/wiki'. The page features a prominent green banner with the text 'Learn Git and GitHub without any code!' and a 'Read the guide' button. Below the banner, the repository name 'halnovemila / Notify4Scripts' is displayed, along with statistics for 'Unwatch' (2), 'Star' (7), and 'Fork' (1). The 'Wiki' tab is selected, showing the 'Home' page of the documentation. The main content area contains the title 'Notify4Scripts' and a description: 'Sort of wrapper app that allows to call the notification service and build, trigger, customize notifications via shell commands.' It also includes a paragraph explaining that shell commands can be given to an Android device via adb and that the app allows building and displaying notifications on a target phone. A note at the bottom states: 'NOTE: This document was written mainly at the time of the app development (last source code edit was 12 Dec 2014), while testing the app on a Samsung Galaxy Y, running Android Gingerbread 2.3.6. The app is been successfully recently (by 5 Jun 2016) tested on two devices running Android Lollipop.' The right sidebar contains a 'Pages' section with a search box and a 'Home' link, and a 'Clone this wiki locally' section with a URL input field. The Windows taskbar at the bottom shows the time as 7:50 PM on 29/08/2019.

# Innovative solution to a storage issue caused by auto updates

Solution conceived by me and posted on XDA Developer Forum on 24th November 2014

[TRICK] How to stop Google Play Store self update - easy!

<https://forum.xda-developers.com/galaxy-y/general/trick-how-to-disable-google-play-store-t2951378>

The screenshot shows a web browser window displaying a forum post on the XDA Developers website. The browser's address bar shows the URL: [forum.xda-developers.com/galaxy-y/general/trick-how-to-disable-google-play-store-t2951378](https://forum.xda-developers.com/galaxy-y/general/trick-how-to-disable-google-play-store-t2951378). The forum post is titled "[TRICK] How to stop Google Play Store self update - easy!" and is attributed to user halnovemila, posted on 24th November 2014 at 08:07 AM. The post has 72 replies and 67 thanks. The main content of the post reads: "In /data/app folder make a new folder with name com.android.vending-1.apk (to make the folder use a file manager app or the command 'su' followed by 'mkdir /data/app/com.android.vending-1.apk' with a Terminal Emulator app and Busybox installed. NOTE: Making a new folder in /data partition require root permissions so the Android system must be rooted first) That's it! 🙄". Below the text is a video thumbnail titled "How to stop Google Play Store self ..." showing a terminal window with the command "mkdir /data/app/com.android.vending-1.apk" being executed. The forum interface includes navigation tabs for NEWS, FORUMS, DEVICES, TOPICS, and BEST POSTS, and a sidebar with various forum categories like "Galaxy Y GT-S5360 General" and "Galaxy Y GT-S5360 Accessories". An advertisement for "Invest with Fast Direct Execution" is visible on the right side of the page.

# Android app reverse engineering tutorial

Tutorial that I wrote and published on XDA Developers forum on 24th May 2016

[GUIDE][MOD][APP] Modify chomp SMS to make it look exactly as SGY SMS app

<https://forum.xda-developers.com/android/apps-games/guide-modify-chomp-sms-to-make-look-t3385189>

The screenshot shows a web browser window displaying a forum thread on the XDA Developers website. The browser's address bar shows the URL: [forum.xda-developers.com/android/apps-games/guide-modify-chomp-sms-to-make-look-t3385189](https://forum.xda-developers.com/android/apps-games/guide-modify-chomp-sms-to-make-look-t3385189). The forum post title is "[GUIDE][MOD][APP] Modify chomp SMS to make it look exactly as SGY SMS app" by user halnovemila, posted on 24th May 2016. The post has 72 replies and 67 thanks. The main content of the post is an introduction discussing the benefits of larger screen phones and the challenges of reverse engineering. A sidebar on the right lists various forum categories like "Android Apps and Games" and "Android General". There are also advertisements for "Recruit" and "etoro" visible on the page.

**Introduction** (skip it if you are in a hurry 😊)

*Is it newer always better than older? not always indeed...*

*For example, the transition from Windows XP to Windows Vista, or from Windows 7 to 8 is been for many a move backward in terms of user experience and performance.*

*I would say that also the new "security" features implemented starting with Android KitKat, that highly limited the usage of the external physical SDcard and introduced a quite confusing virtual/emulated internal SDcard, gave to many users who switched to the newer Android OS a number of problems and limitations they didn't have before.*

*Beside operative systems, also on the applications world, of course, sometimes an older app is better than a newer.*

*I, for example, can't get used to the new Messaging app look, that I found on my new phone, once I for years happily and comfortably used the Messaging app that was available on my \*old\* Samsung Galaxy Y (with Android GingerBread 2.3.6) which was optimized for a small screen and therefore very essential but still complete and able to provide a good user experience.*

*Some of us, smartphone users, would like that switching to a bigger screen phone from a smaller one, would give us the chance to have bigger text, menus, labels, so that everything can be read easier than on previous smaller phone...*

*But that doesn't seem what developers (who are eventually very young and so their sight is still very good 😊) usually think when they have*