



CloudView NMS. Using iPhone/iPad Web Application as CloudView GUI Client. Step-by-step guide.

www.cloudviewnms.com

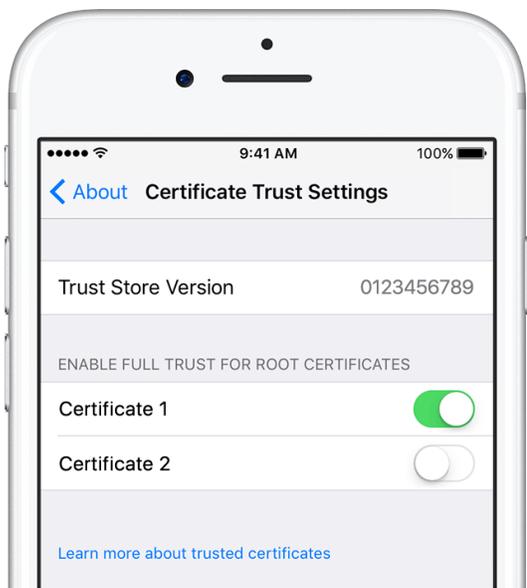
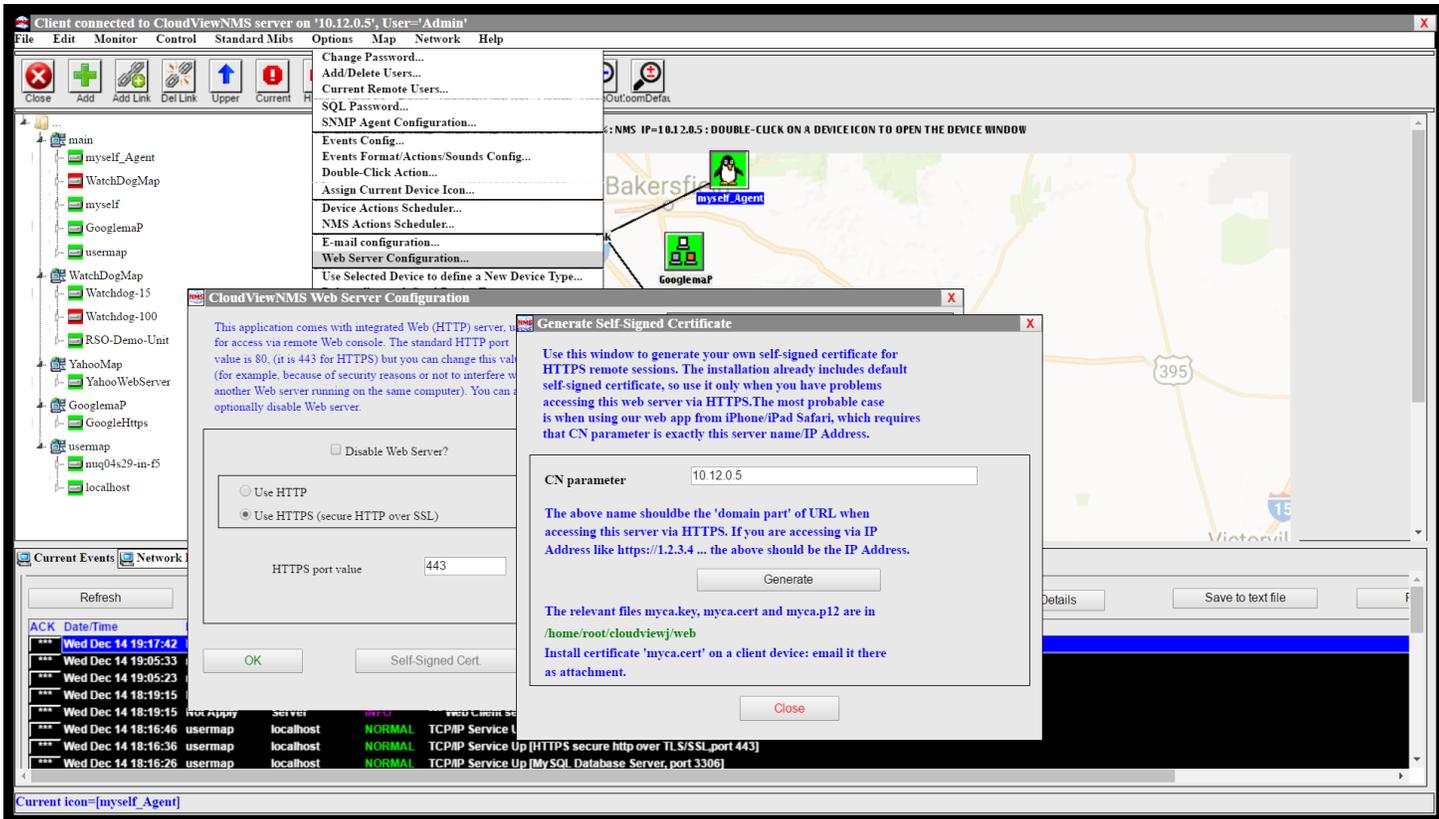
We are currently working on user manuals to describe all the richness of CloudView GUI. There is a lot to describe. Currently it describes just enough to let you start with the above topic. Please install the latest copy of CloudView (or CloudView 30 days Trial which is the same package) to see the latest copy of this document.

WARRANTY

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Important: if you configured HTTPS (secure HTTP) in the CloudView NMS Server “Web Server Configuration” window, you need also to generate self-signed certificate and import it into your iPhone/iPad device. The “Web Server Configuration” window is available both in local server GUI and remote GUI under “Main Menu->Options” or “Main Menu->Internet Options”.



After you done the above, to import the certificate simply e-mail the file myca.cert (found under <cloudviewroot>/web directory) to yourself as attachment. Open the e-mail in your iPhone/iPad and tap the attachment. You will be suggested to **install the certificate** and **make it trusted**, so please do so. Making the self-signed certificate **trusted** in IOS higher than 10.3.x requires additional action. On your iPhone/iPad go to Settings->General->About->Certificate Trust Settings and set the certificate you just installed to be **trusted**.

If you do not perform the above procedure, you will still be able to connect but the Web GUI dialogs will work slowly and timeout frequently, some of the dialogs will not work. So it is strongly recommended to do the above, if you are using HTTPS.

Please note that if you are accessing CloudView NMS web GUI from outside of your corporate network, for example, like this:
https://cloudviewnms.mydomain.com:4430
 The CN parameter should be **cloudviewnms.mydomain.com**

1. Locate “Safari” App icon and tap it to start Safari Web Browser.



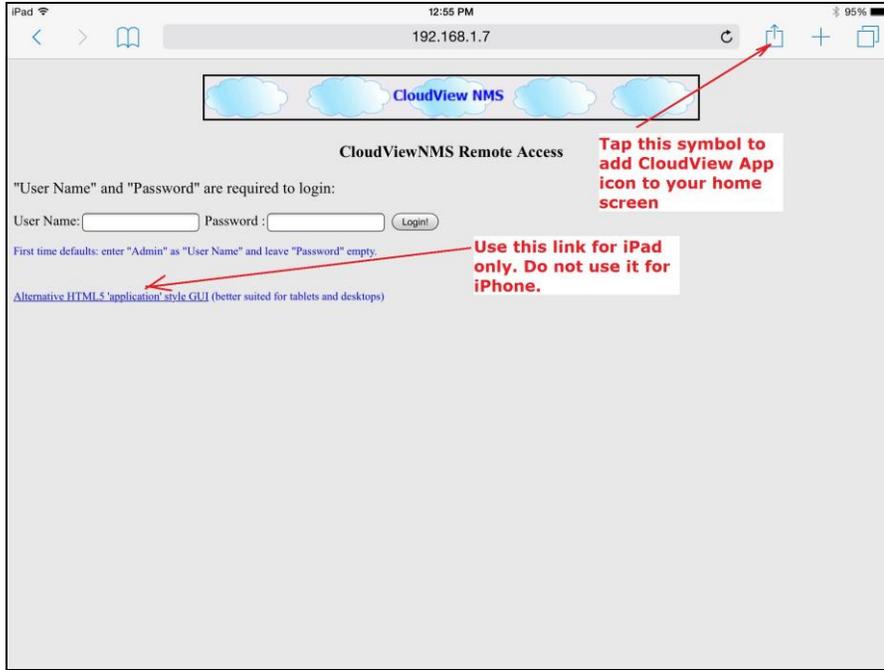
2. In the URL Address Bar, enter `http://<ipaddressofserver>` to connect to the CloudView NMS server. Depending on how you configured Web Server in the “Internet Options->Web Server Configuration” dialog from main menu on CloudView Local Server GUI, you may need to enter something like below:

- 2.1. <http://192.168.1.7> - Web Server is running on 192.168.1 7, http, port 80, (default)
- 2.2. <http://192.168.1.7:8080> - Web Server is running on 192.168.1 7, http, port 8080,
- 2.3. <https://192.168.1.7> - Web Server is running on 192.168.1 7, https (secure), port 443,

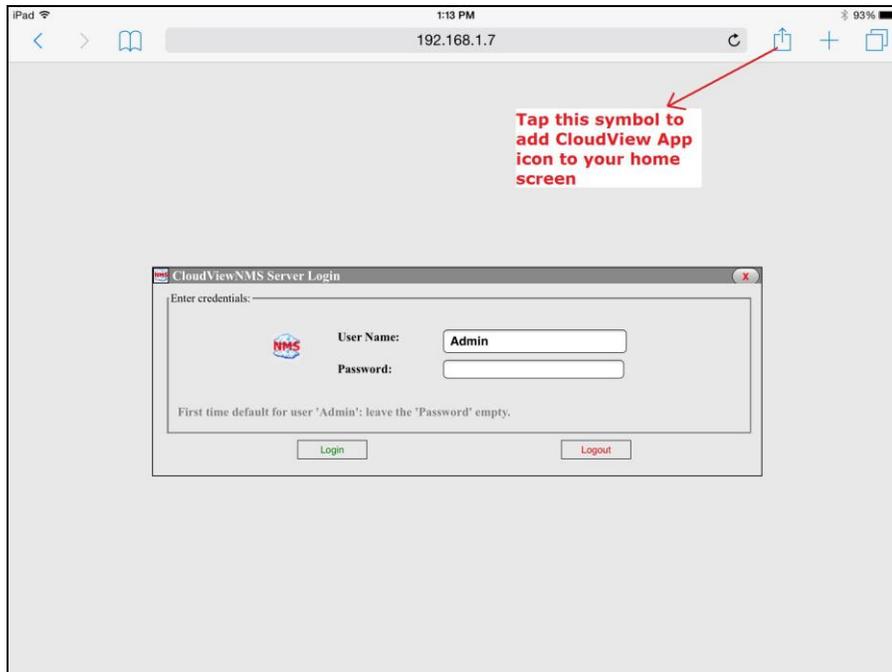
2.4. <https://192.168.1.7:1234> - Web Server is running on 192.168.1.7, https (secure), port 1234

You can also use full qualified domain name like www.myserver.com instead of IP Address.

3. After you connected, you will see something like below.

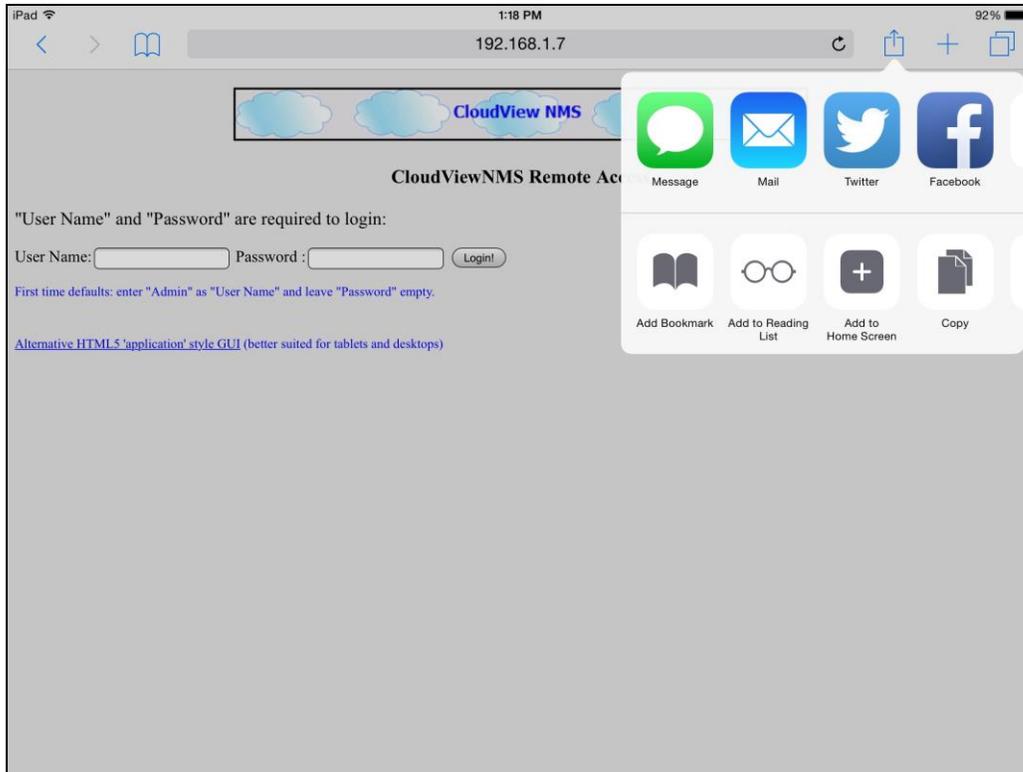


In the above screen: for **iPhone**, tap the symbol indicated in the screenshot to add CloudView Web App icon to your home screen. For **iPad**, tap the "Alternative HTML5 'application style' GUI" hyperlink and you will see something like below.

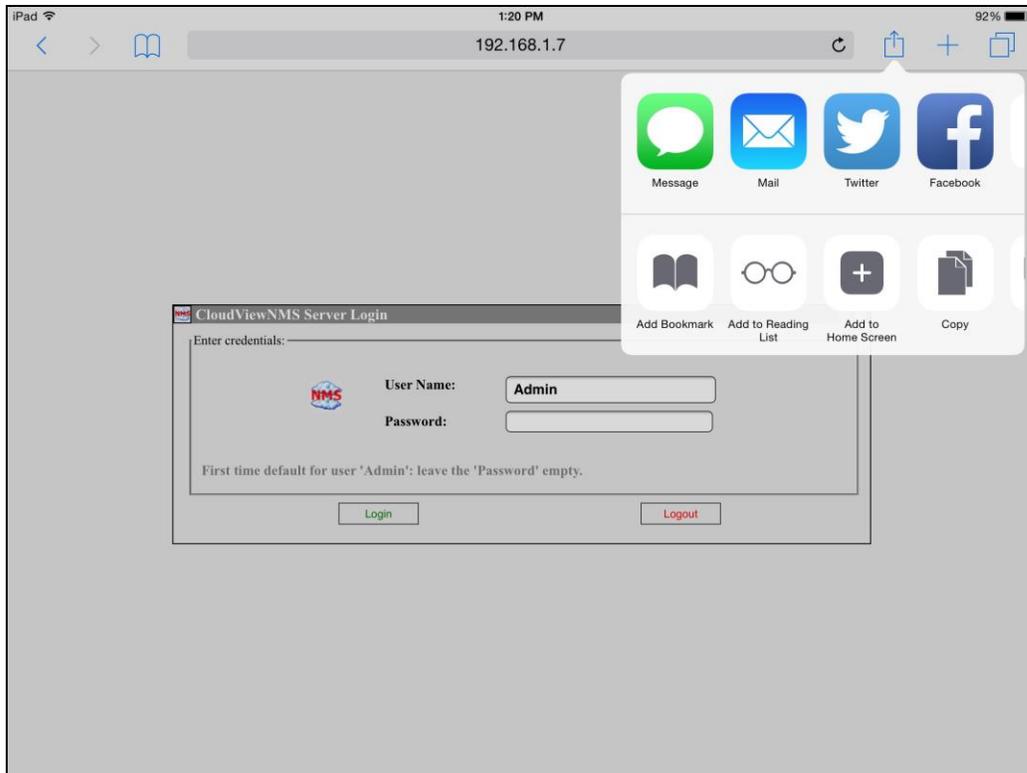


For **iPad**, tap the symbol indicated in the screenshot above to add CloudView Web App icon .

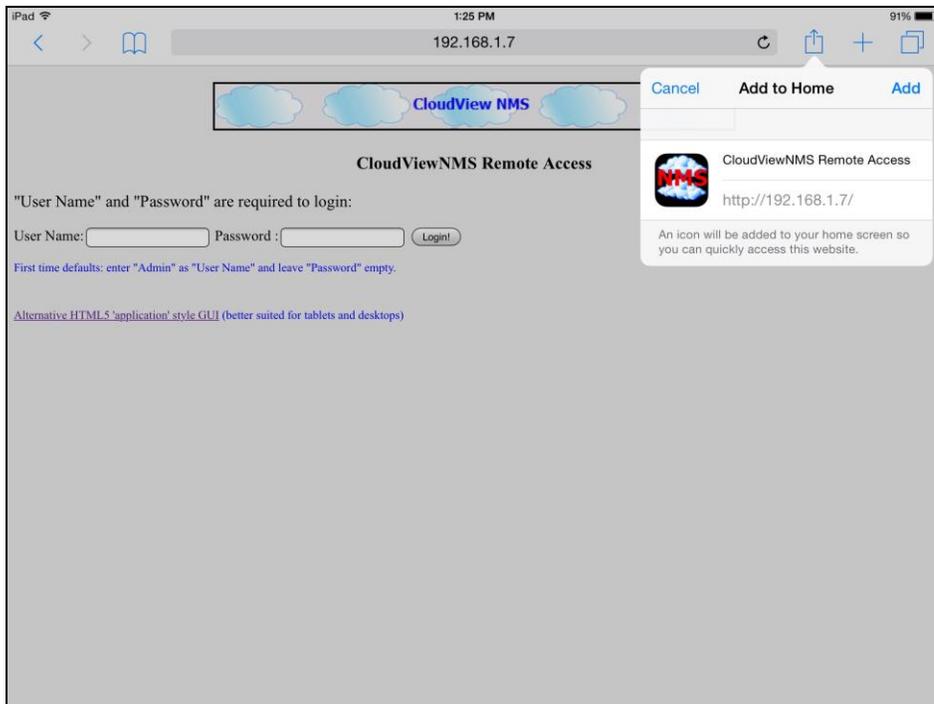
4. So, for **iPhone**, you see:



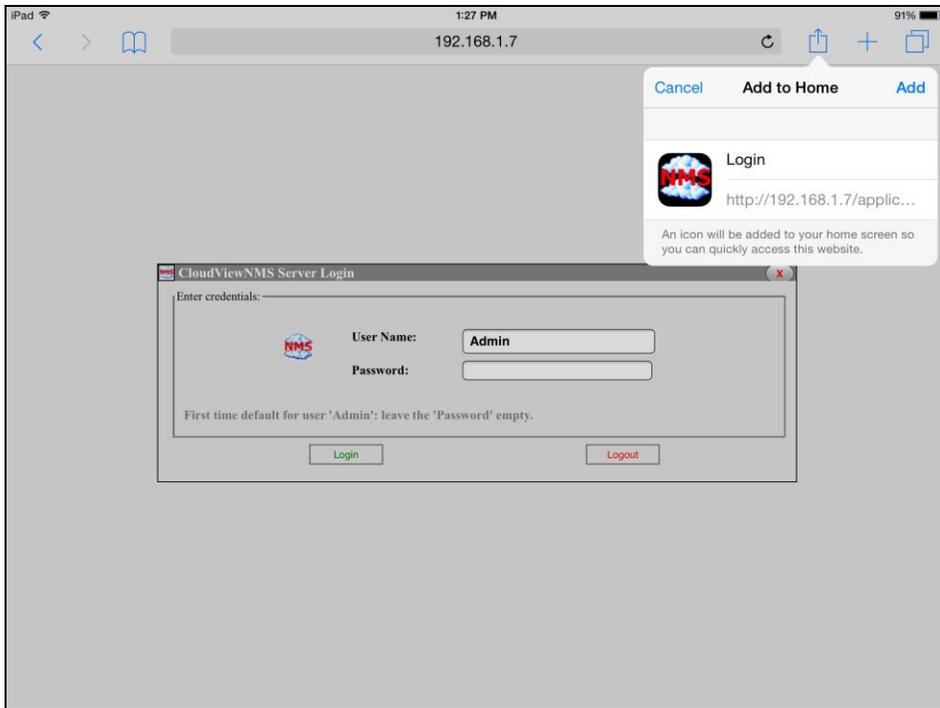
For **iPad**, you see:



5. Tap “Add to Home Screen” symbol.
For **iPhone**:

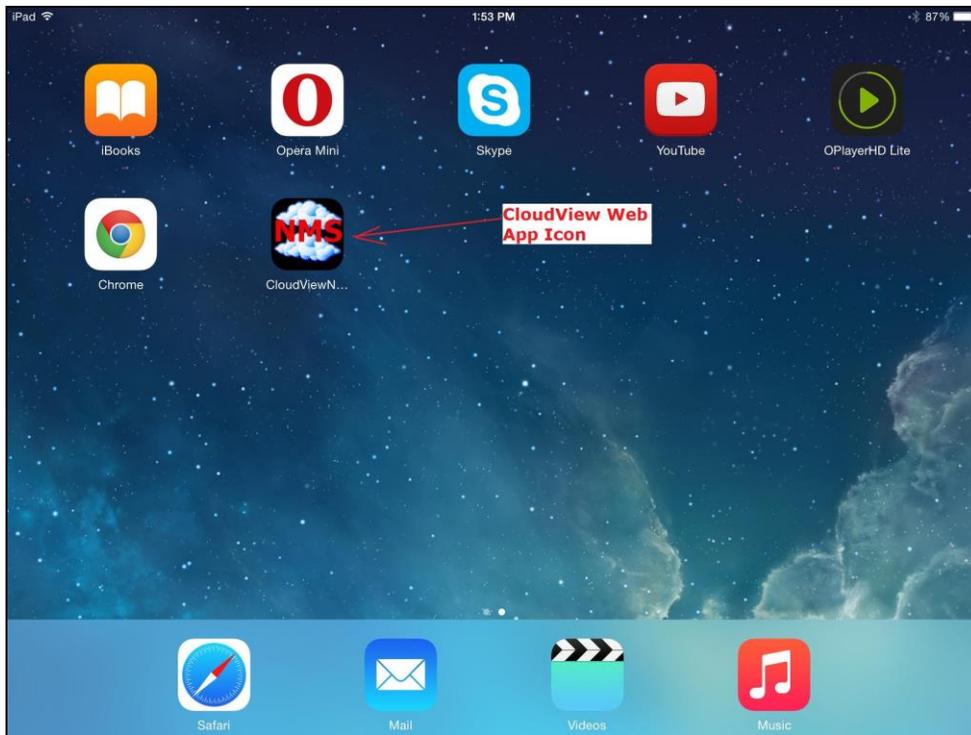


For **iPad**:



This will be an entry point to the CloudView Client GUI.

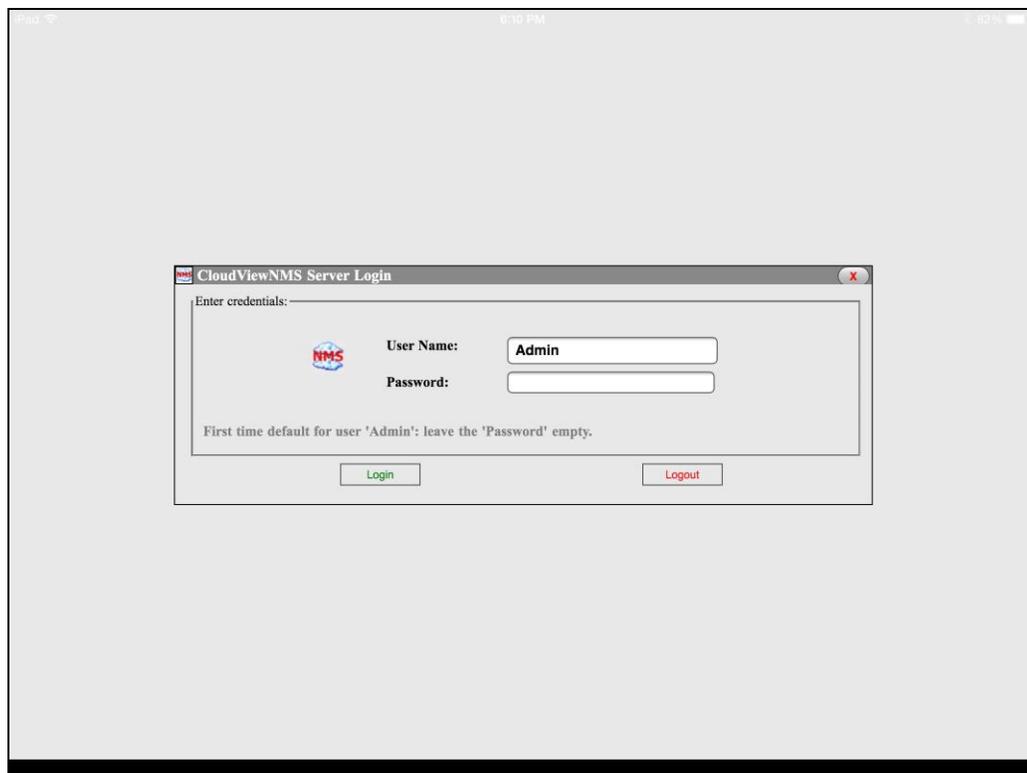
6. Tap word “Add” shown in the above screenshots in blue. This will confirm adding CloudView Web App tour home screen so it would look like any other iPhone/iPad App icon.



7. To start the app tap the CloudView Web App icon. For **iPhone**, you see, something like below: (notice there is no URL Address bar, which allows the whole screen for web app)



For **iPad**:



8. Use your credentials to login. User account credentials are defined in local CloudView Server GUI via "Options->Add/Delete Users" main menu item. For **iPhone**, you see:

CloudView NMS

CloudViewNMS Remote Access , User="Admin"

Refresh Logout Views... Device/Submap... Network... Config...

Devices List, Current Map="main", Map Health/SLA=60.997105 %

Select	Device Name	Device Type	IP Address	Comm. Status	Events Status	Health/SLA %	Notepad
X	sub2	SUBMAP	N/A	N/A	Normal	99.730973	*
X	myrouter	TCPIP	192.168.1.1	Good	Normal	97.637391	*Generic TCPIP Device
X	BRN_B7E487	GENERIC	192.168.1.14	Bad	Critical	85.353925	*Brother NC-130h, Firmware Ver.0.09 ,MID 8CA-A17-001
X	aphone	AGENT	N/A	Bad	Critical	0.000000	*aphone:192.168.1.6:45
X	corporate	SUBMAP	N/A	N/A	Critical	58.163265	*

Total Number of devices on this map: 5

Refresh Interval(sec): 60 Change Refresh Interval

Enter DeviceName/IP Address/Notepad (use wildcard '*' for partial text): Locate Device on Maps

Current Events Log

ACK	DupNumb/Date/Time	Map	Device	Severity	Event Message
***	Sat Nov 01 13:48:40:	Not Apply	Server	INFO	*** Web Client session opened on 192.168.1.3 by Admin ***
***	Sat Nov 01 13:47:29:	Not Apply	Server	INFO	*** Web Client session opened on 192.168.1.3 by Admin ***
***	Sat Nov 01 13:44:36:	corporate	bigswitch	NORMAL	TCP/IP Service Up [Telnet Terminal Connection,port 23]
***	Sat Nov 01 13:44:28:	corporate	rres64S	NORMAL	TCP/IP Service Up [Telnet Terminal Connection,port 23]
***	Sat Nov 01 13:44:17:	main	myrouter	NORMAL	TCP/IP Service Up [Telnet Terminal Connection,port 23]
***	Sat Nov 01 13:44:14:	corporate	rres61	NORMAL	TCP/IP Service Up [Time protocol Server,UDP port 37]
***	Sat Nov 01 13:43:55:	corporate	bigswitch	NORMAL	TCP/IP Service Up [HTTP: WWW Server,port 80]
***	Sat Nov 01 13:43:54:	corporate	rres61	NORMAL	TCP/IP Service Up [HTTP: WWW Server,port 80]

Use the “menus” to navigate around. Tap a device icon to get inside the device. All the parts of the screen are highly interactive. Below some typical iPhone screenshots:

CloudView NMS

CloudViewNMS Remote Access , User="Admin"

Refresh Logout Views... Device/Submap... Network... Config...

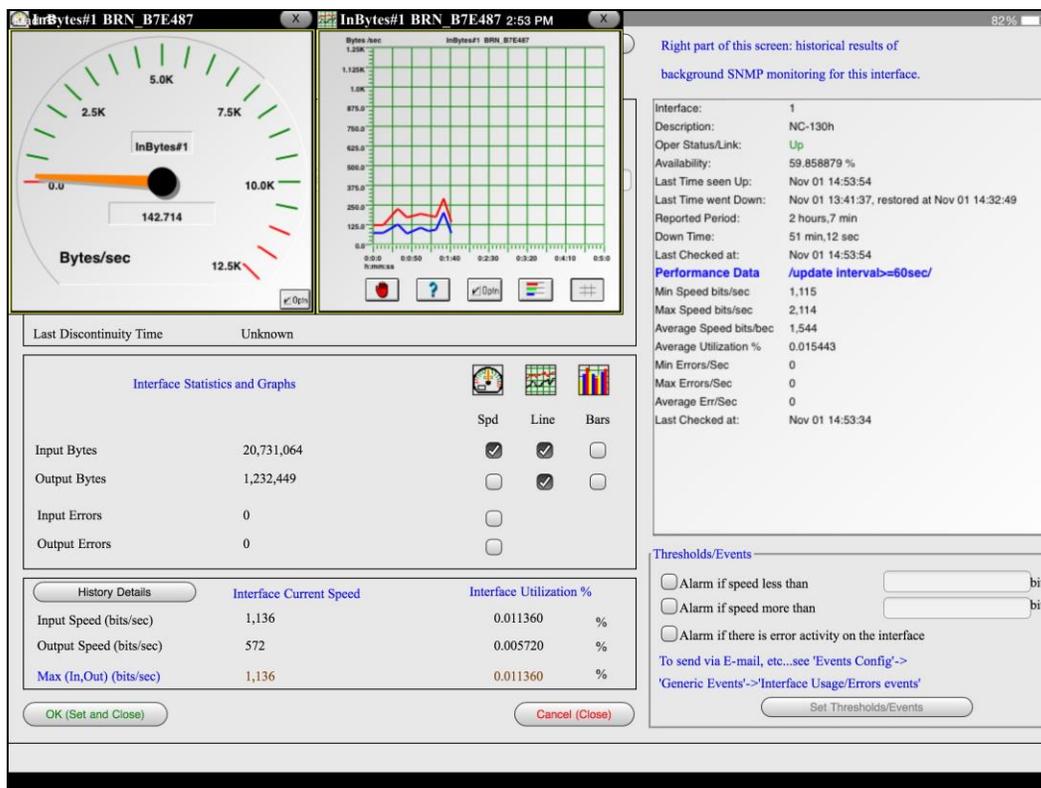
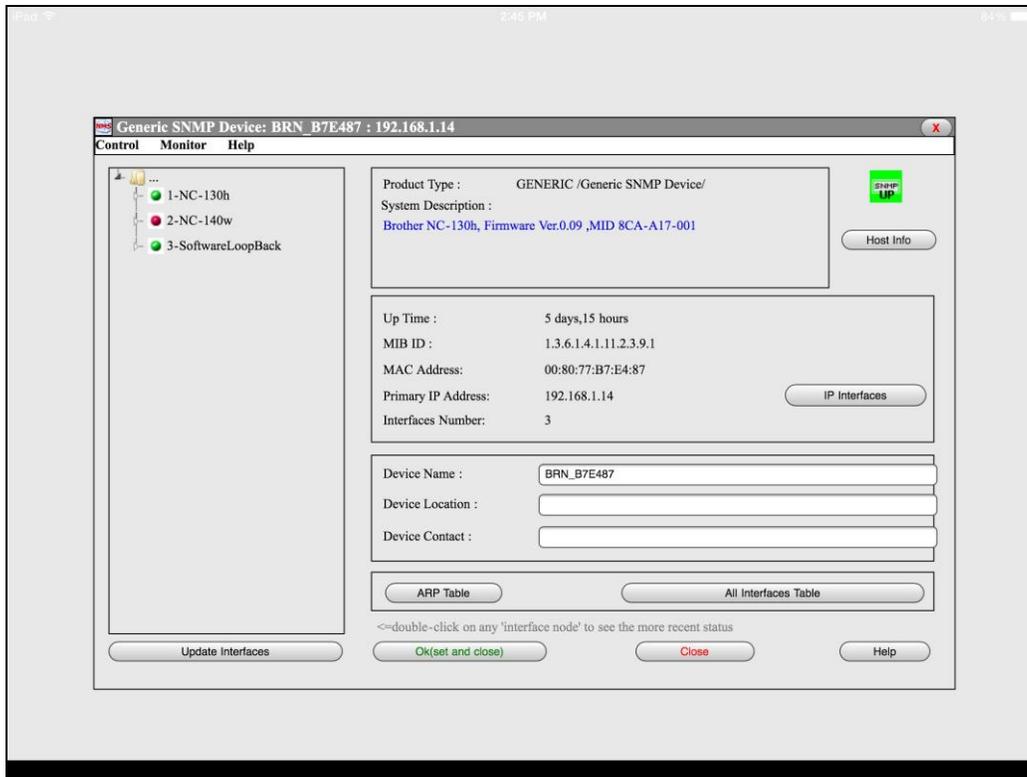
CloudViewNMS:map=main : map health/SLA=49.837678% : NMS IP=192.168.1.7 : CLICK ON A DEVICE ICON TO OPEN THE DEVICE WINDOW

Refresh Interval(sec): 60 Change Refresh Interval

Enter DeviceName/IP Address/Notepad (use wildcard '*' for partial text): Locate Device on Maps

Current Events Log

ACK	DupNumb/Date/Time	Map	Device	Severity	Event Message
***	Sat Nov 01 14:34:21:	main	BRN_B7E487	NORMAL	TCP/IP Service Up [TFTP, Trivial File Transfer,UDP port 69]
***	Sat Nov 01 14:34:00:	main	BRN_B7E487	NORMAL	TCP/IP Service Up [Ping: ICMP]



For iPad, the interface is more advanced. After you enter, you see GUI which looks more like CloudView server local GUI:

The screenshot displays the CloudViewNMS web interface. At the top, the browser title is "Client connected to CloudViewNMS server on '192.168.1.7'. User='Admin' 11 PM". The interface includes a menu bar (File, Edit, Monitor, Control, Standard Mibs, Options, Map, Network, Help) and a toolbar with icons for Close, Add, Add Link, Del Link, Upper, Current, History, and Devices.

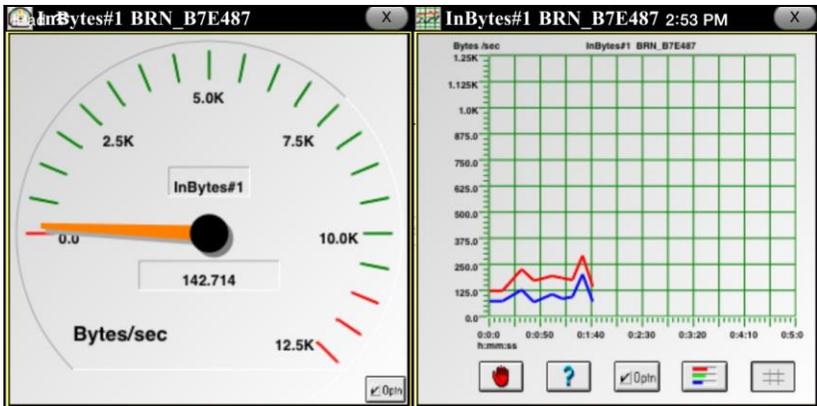
The main area is split into two panes. The left pane shows a hierarchical tree view of the network structure, including nodes like "main", "sub2", "myrouter", "BRN_B7E487", "iphone", "corporate", "MYPC-HP", "tom", "KingArtur", "Pete", "jerry", "mygoogle", and "corporate/rcs61". The right pane shows a map view of the network topology overlaid on a street map. The map includes labels for "Ronald Reagan Hwy", "Madera Rd", "Brea Ct", "118", "22A", and "sub2". Network links are labeled "wireless" and "fiber".

Below the map is a "Current Events" section with tabs for "Current Events", "Network Inventory", and "Services Inventory". It features buttons for "Refresh", "Clear Events", and "Add Event", along with a dropdown menu for "All Events". The events table is as follows:

ACK	Date/Time	Map Name	Device/Service	Severity	Alarm Message/Problem/Cause Description
***	Sat Nov 01 15:54:42	corporate	rcs64S	WARNING	TCP/IP Service Down [Ping:ICMP]
***	Sat Nov 01 15:54:38	corporate	rcs62	CRITICAL	TCP/IP communication is Down
***	Sat Nov 01 15:54:37	corporate	rcs62	WARNING	TCP/IP Service Down [SSH Remote Login Server, port 22]
***	Sat Nov 01 15:54:37	corporate	rcs62	WARNING	TCP/IP Service Down [Ping:ICMP]
***	Sat Nov 01 15:54:02	corporate	rcs61	NORMAL	TCP/IP Service Up [Time protocol Server,UDP port 37]
***	Sat Nov 01 15:53:42	corporate	rcs61	NORMAL	TCP/IP Service Up [HTTP:WWW Server,port 80]
***	Sat Nov 01 15:53:31	corporate	rcs61	NORMAL	TCP/IP Service Up [Ping:ICMP]
***	Sat Nov 01 15:52:21	corporate	rcs61	NORMAL	TCP/IP Service Up [Microsoft Remote Desktop/Terminal Services, port 3389]

At the bottom, the status bar shows "Current icon=[BRN_B7E487]".

After you enter “inside” a device the screens look the same for all the GUIs, (i.e. iPhone, iPad and local Server GUI). For example, the screens allow you to watch real time and historical traffic for any SNMP capable device.



Last Discontinuity Time: Unknown

Interface Statistics and Graphs

Input Bytes	20,731,064
Output Bytes	1,232,449
Input Errors	0
Output Errors	0

	Spd	Line	Bars
Input Bytes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Output Bytes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Input Errors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output Errors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

History Details

Interface Current Speed

Interface Utilization %

Input Speed (bits/sec)	1,136	0.011360	%
Output Speed (bits/sec)	572	0.005720	%
Max (In,Out) (bits/sec)	1,136	0.011360	%

OK (Set and Close)

Cancel (Close)

Right part of this screen: historical results of background SNMP monitoring for this interface.

Interface: 1
 Description: NC-130h
 Oper Status/Link: Up
 Availability: 59.858879 %
 Last Time seen Up: Nov 01 14:53:54
 Last Time went Down: Nov 01 13:41:37, restored at Nov 01 14:32:49
 Reported Period: 2 hours,7 min
 Down Time: 51 min,12 sec
 Last Checked at: Nov 01 14:53:54
Performance Data /update interval>=60sec/
 Min Speed bits/sec: 1,115
 Max Speed bits/sec: 2,114
 Average Speed bits/sec: 1,544
 Average Utilization %: 0.015443
 Min Errors/Sec: 0
 Max Errors/Sec: 0
 Average Err/Sec: 0
 Last Checked at: Nov 01 14:53:34

Thresholds/Events

- Alarm if speed less than bits
- Alarm if speed more than bits
- Alarm if there is error activity on the interface

To send via E-mail, etc...see 'Events Config'->

'Generic Events'->'Interface Usage/Errors events'

Set Thresholds/Events