

**TNTv**  
**Digital Signage**  
Руководство  
Пользователя

2013

---

Smart Matrix Multimedia Commutator

**Модель: TNT SMMC-3000**

**Версия ПО 2.4**



– True Network Television

# Содержание

## ГЛАВА 1: ВВЕДЕНИЕ

5

1.1	.....	5
1.2	.....	7
1.3	.....	7
1.4	.....	8
1.5	.....	9

## ГЛАВА 2: ПЕРВОЕ ВКЛЮЧЕНИЕ КОММУТАТОРА

10

2.1	.....	10
2.2	.....	10

## ГЛАВА 3: КОНСОЛЬ УПРАВЛЕНИЯ КОММУТАТОРОМ (ПО)

13

<b>3.1</b>	( «MAIN PAGE»)	.....	<b>13</b>
<b>3.2</b>	( «SET»)	.....	<b>14</b>
3.2.1	( «SET» «TRANSMITTER/RECEIVER»)	.....	<b>15</b>
3.2.2	( «SET» «SITUATION(BROADCASTING)»)	.....	<b>18</b>
3.2.3	( «SET» «RX GROUP SET»)	.....	<b>20</b>
<b>3.3</b>	( «EXECUTION»)	.....	<b>23</b>
3.3.1	( «EXECUTION» «BROADCASTING SYSTEM»)	.....	<b>24</b>
3.3.2	( «EXECUTION» «VIDEOWALL»)	.....	<b>25</b>
<b>3.4</b>	( «SYSTEM»)	.....	<b>37</b>
3.4.1	( «SYSTEM» «SYSTEM CONFIGURATION»)	.....	<b>38</b>
3.4.2	( «SYSTEM» «IP CONFIGURATION»)	.....	<b>39</b>
3.4.3	( «SYSTEM» «MAINTENANCE»)	.....	<b>39</b>
3.4.4	( «SYSTEM» «SYSTEM EVENTLOG»)	.....	<b>41</b>
3.4.5	SNTP ( ) ( «SYSTEM» «SNTP CONFIGURATION»)	.....	<b>42</b>
3.4.6	( «SYSTEM» «USER AUTHENTICATION»)	.....	<b>43</b>
3.4.7	( «SYSTEM» «DIAGNOSTICS»)	.....	<b>43</b>
<b>3.5</b>	( «NETWORK»)	.....	<b>45</b>
3.5.1	( «NETWORK» «PROTOCOL»)	.....	<b>45</b>
3.5.2 MAC	( «NETWORK» «MAC TABLE»)	.....	<b>45</b>
3.5.3	( «NETWORK» «PORT STATISTICS»)	.....	<b>46</b>
3.5.4	( «NETWORK» «PORT CONFIGURATION»)	.....	<b>47</b>
3.5.5	(TRUNK) ( «NETWORK» «PORT TRUNK»)	.....	<b>48</b>
3.5.6	( «NETWORK» «LOOPBACK DETECTION»)	.....	<b>50</b>
<b>3.6</b>	( «LANGUAGE»)	.....	<b>51</b>
<b>3.7</b>	( «FACTORY DEFAULT»)	.....	<b>51</b>





**4.1** ( «SET») ..... 53

4.1.1 ( «SET» «TRANSMITTER/RECEIVER») ..... 53

4.1.2 ( «SET» «SITUATION(BROADCASTING)») ..... 54

4.1.3 ( «SET» «RX GROUP SET»)..... 54

**4.2** ( «EXECUTION») ..... 55

4.2.1 ( «EXECUTION» «VIDEOWALL»)..... 55

**4.3** ( «SYSTEM»)..... 55

4.3.1 ( «SYSTEM » «USER AUTHENTICATION»)..... 55

ГЛАВА 5: РЕКОМЕНДАЦИИ ПО РАБОТЕ С SMM КОММУТАТОРОМ

(НАСТОЯТЕЛЬНО РЕКОМЕНДУЕМ ПРОЧИТАТЬ ЭТУ ГЛАВУ)

**5.1** ..... 56

**5.2** ..... 56

**5.3** ..... 57

( ) \_\_\_\_\_

, , ( )  
 ), , ( )  
 ).

:

- , / /SMM TNT.  
 - , / /SMM  
 TNT

- / /SMM TNT,

- , ,  
 , ,  
 .  
 / /SMM TNT ,



# 1:

## 1.1

### Digital Signage —

— ( ) — Digital Signage ( . ) , , , , , .

### Smart Matrix Multimedia Commutator (SMMC) —

( ) . — ( ) . — ( ) . ( , , . ) .

- TNT MMS-500H-T — HDMI + + + USB + ( ) + RS232
- TNT MMS-500V-T — VGA + + + USB + + RS232
- TNT MMS-520H-T — HDMI + + RS232,



- TNT MMS-530V-T — VGA + USB + ,
- TNT MMS-500H-R — HDMI + + + USB + + RS232
- TNT MMS-500V-R — VGA + + + USB + + RS232
- TNT MMS-520H-R — HDMI + + RS232,
- TNT MMS-530V-R — VGA+USB+ ,

( , , . .) ( )  
 (LAN, ), **Gigabit Ethernet (1000Base-T)**  
 TCP/IP.

,  
 ( ), RS232, USB,  
 .  
 ( ).

SMM – 300 .

, SMM  
 TNT SMMC-3000 – 6.

	TNT MMS-500H-R	TNT MMS-520H-R	TNT MMS-500V-R	TNT MMS-530V-R
TNT MMS-500H-T	HDMI Image HDMI/USB Audio  USB RS232	HDMI Image HDMI Audio RS232	VGA Image USB Audio  USB RS232	VGA Image USB
TNT MMS-520H-T	HDMI Image HDMI Audio RS232	HDMI Image HDMI Audio RS232	VGA Image RS232	VGA Image
TNT MMS-500V-T	VGA Image USB Audio  USB RS232	HDMI Image RS232	VGA Image USB Audio  USB RS232	VGA Image USB
TNT MMS 530V-T	HDMI Image USB	HDMI Image	VGA Image USB	VGA Image Analog Audio USB



## 1.2

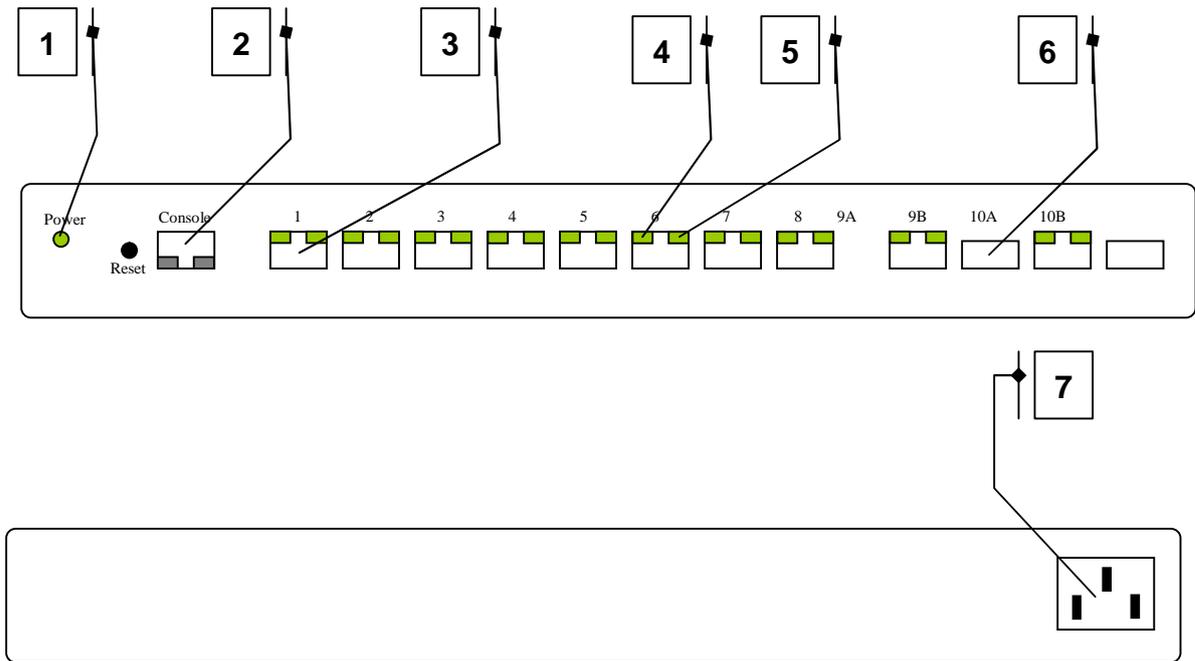
TNT SMMC-3000: – 1 .  
:1 .  
:4 .  
(  
( CD) ).

## 1.3

SMM :  
• ( , , )  
• )  
•  
•  
• –  
• – 16 16.  
• , , ,  
• .  
• .  
• ( ,  
• , SMM , ethernet )  
• -  
• / ( ).  
• :  
• , , , , , ,  
• , , , , , .  
• - .  
• , ,  
• , .

SMM LAN, Internet. WAN,

# 1.4



1. \_\_\_\_\_ .
2. \_\_\_\_\_ .
3. 1-8, 9A 9B / \_\_\_\_\_ ( \_\_\_\_\_  
 \_\_\_\_\_ ). 10/100/1000 Base-T
4. \_\_\_\_\_ .
5. \_\_\_\_\_ .
6. 9B 10B Mini GBIC ( \_\_\_\_\_ SFP).
7. \_\_\_\_\_ (100-240V)

## 1.5

- — .
- — .
- — .
- — .

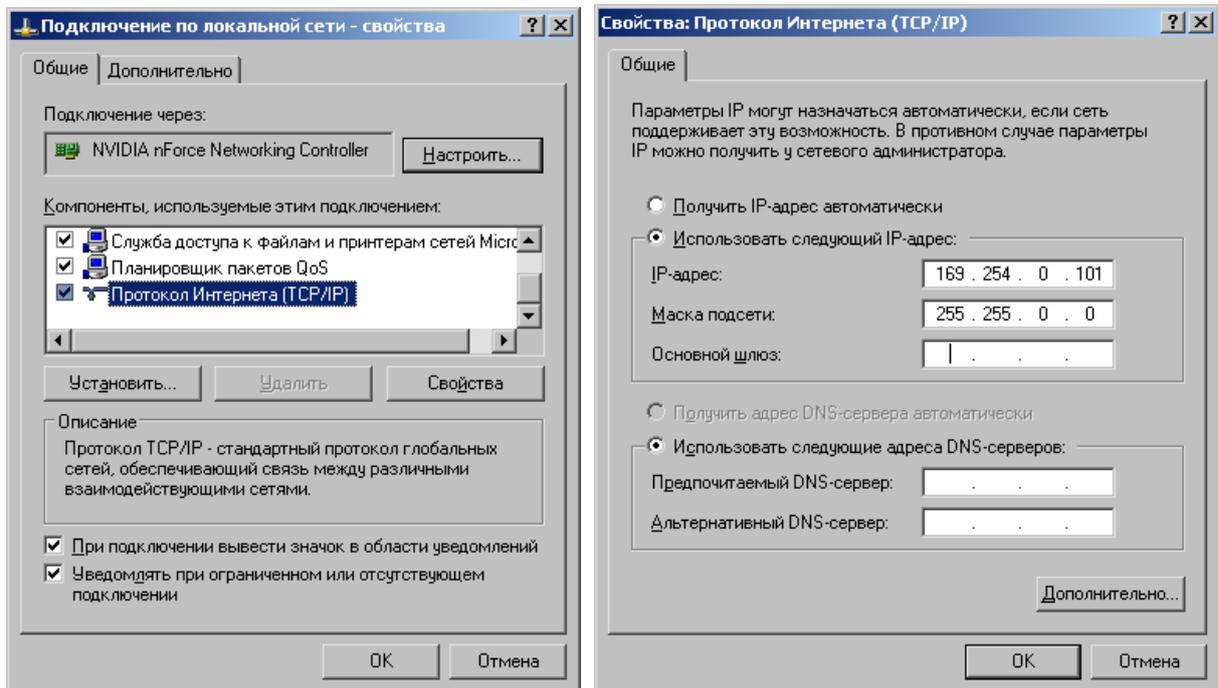
## 2:

### 2.1

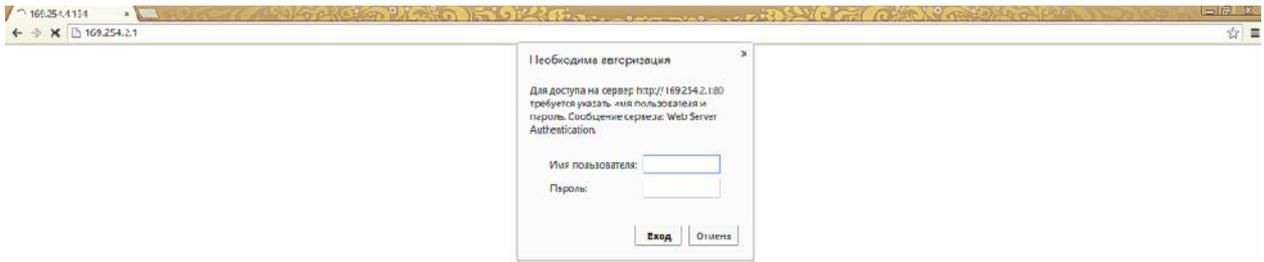
- 1: LAN LAN LAN
- 2: «Power»
- 3:

### 2.2

- 1:



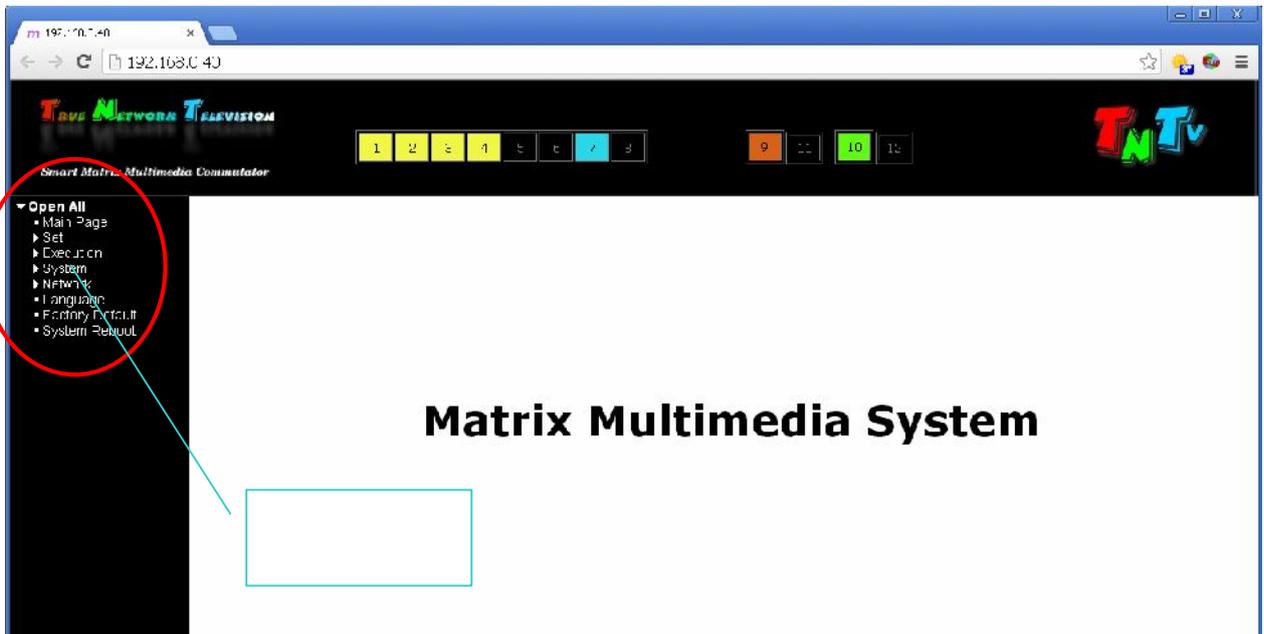
- 2: WEB ( Firefox ( 3.6 ) Chrome ( 13 ) IP 169.254.2.1



■ 4:

- (Login): *admin* ( )
  - (Password): *password* ( ),
- ( . 3.4.6 ).

■ 5:



(

).

( ) .

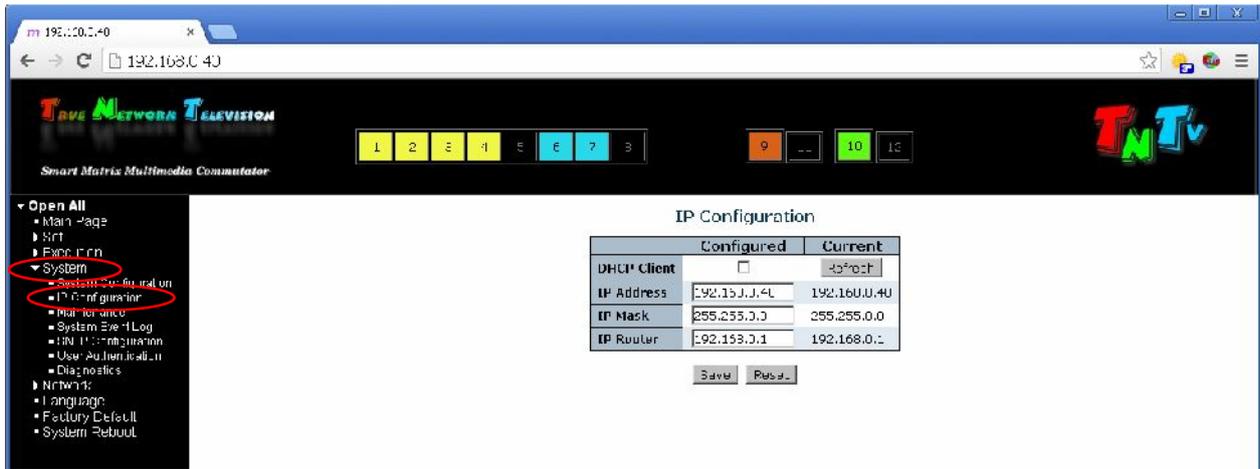
C



6:

«System».

«IP Configuration».



7: IP 169.254.2.1.

8: «DHCP Client», IP  
DHCP ( ).

IP , «IP address»,  
«IP Mask» IP «IP Router», «DHCP  
Client», .

9: «Save» .

«Reset».

10:

..

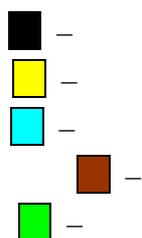
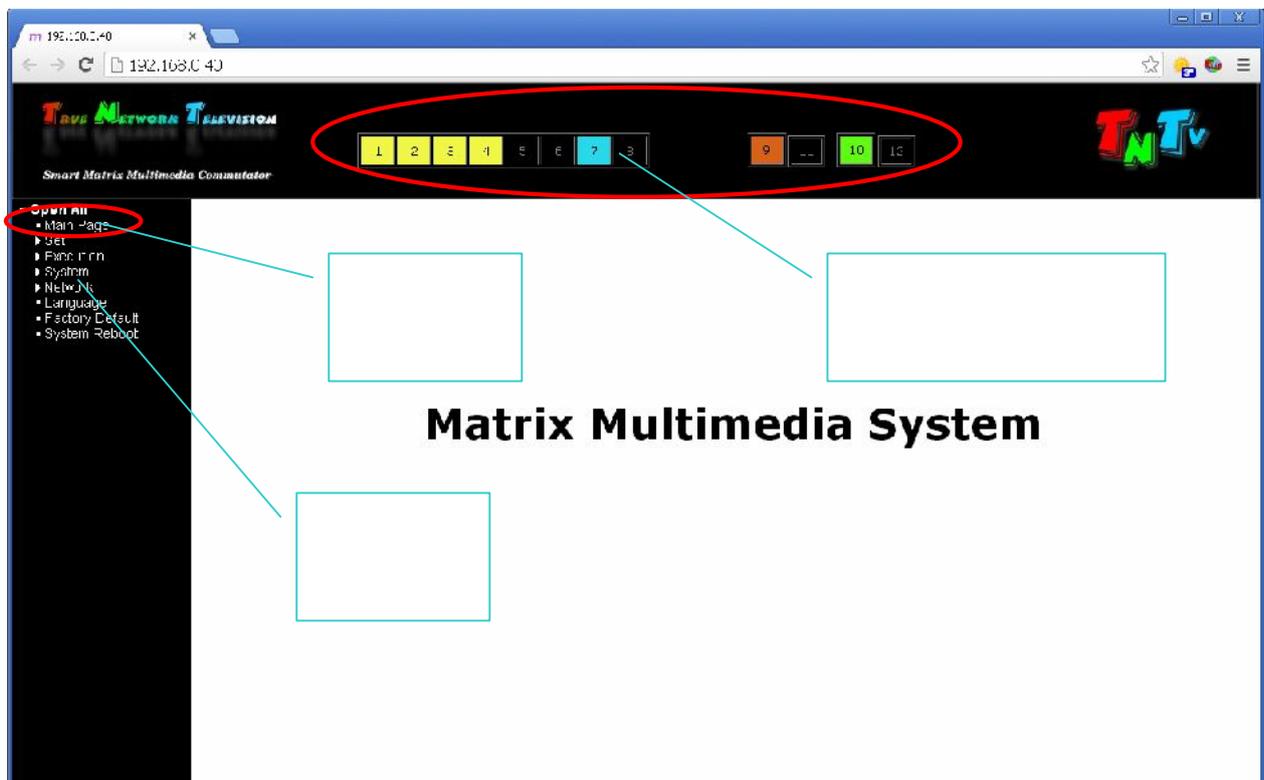
11:

.

◆ \_\_\_\_\_ :

### 3.1 ( «Main Page»)

SMM ( ), (LAN), IP DHCP  
( ) IP SMM IP .



SMM

( )



: ping IP-

: ping 192.168.0.50).

```
Командная строка
Microsoft Windows XP [Версия 5.1.2600]
(C) Корпорация Майкрософт, 1985-2001.

C:\Documents and Settings\s_kaulgaviy>ping 192.168.0.50

Обмен пакетами с 192.168.0.50 по 32 байт:

Ответ от 192.168.0.50: число байт=32 время=8мс TTL=64
Ответ от 192.168.0.50: число байт=32 время=4мс TTL=64
Ответ от 192.168.0.50: число байт=32 время=4мс TTL=64
Ответ от 192.168.0.50: число байт=32 время=3мс TTL=64

Статистика Ping для 192.168.0.50:
    Пакетов: отправлено = 4, получено = 4, потеряно = 0 (0% потерь),
Примерное время приема-передачи в мс:
    Минимальное = 3мсек, Максимальное = 8 мсек, Среднее = 4 мсек

C:\Documents and Settings\s_kaulgaviy>
```

```
Командная строка
Microsoft Windows XP [Версия 5.1.2600]
(C) Корпорация Майкрософт, 1985-2001.

C:\Documents and Settings\s_kaulgaviy>ping 192.168.0.51

Обмен пакетами с 192.168.0.51 по 32 байт:

Превышен интервал ожидания для запроса.

Статистика Ping для 192.168.0.51:
    Пакетов: отправлено = 4, получено = 0, потеряно = 4 (100% потерь),

C:\Documents and Settings\s_kaulgaviy>
```

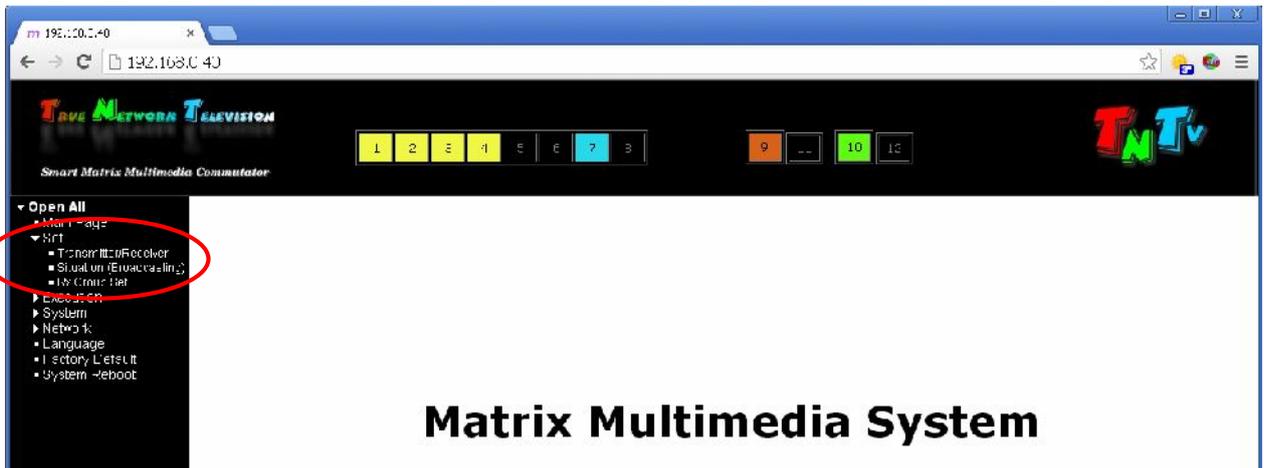
WINDOWS,

PING

### 3.2

( «Set»)

«Set».



### 3.2.1

( <<Set>> <<Transmitter/Receiver>> )

( . )

SMM

<<Transmitter/Receiver>>

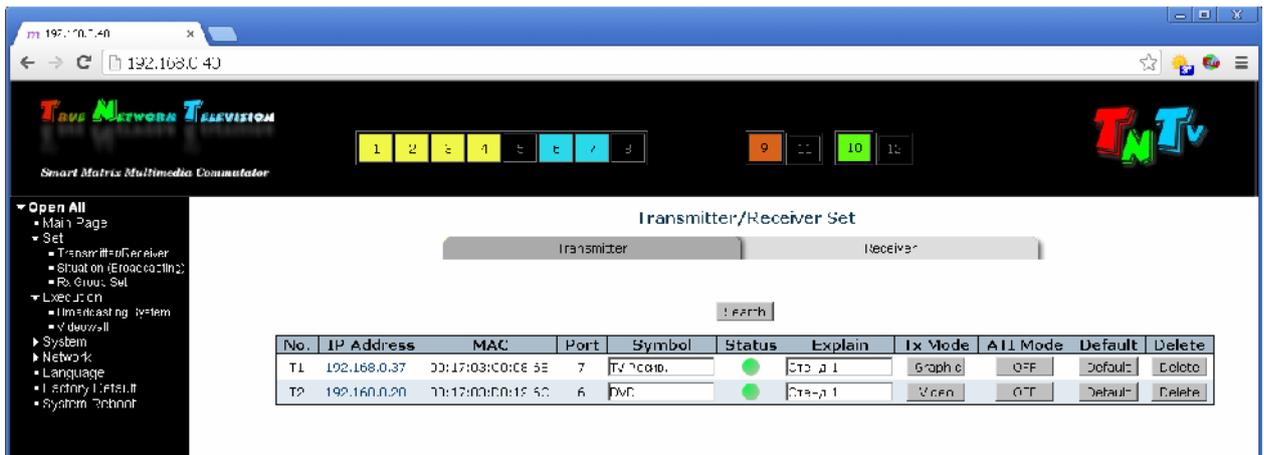
<<Transmitter>>, <<Receiver>>

<<Search>>

<<Transmitter>>

<<Search>>

<<Transmitter>>



• <<No.>> – (<<T1>>, <<T2>> . . .)

• <<IP Address>> – IP

( )



- «MAC» – MAC
- «Port» –
- «Symbol» –

MAC

«Enter».

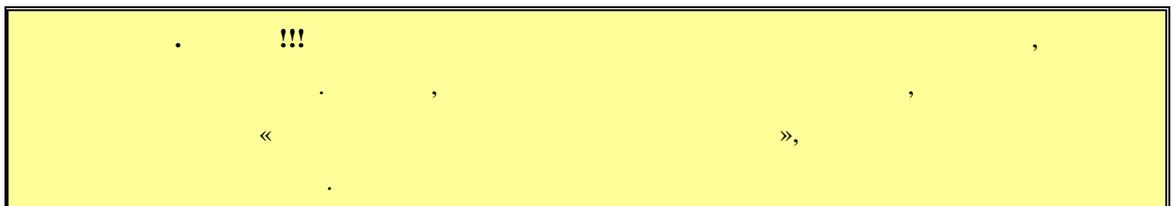
16

1

2

– 16

– 8.



- «Status» –

No.	IP Address	MAC	Port	Symbol	Status	Explain	Tx Mode	ATI Mode	Default	Delete
T1	192.168.0.20	03:17 03:D0 12:CC	6	AAAAAAA	●	Стенд 1	Video	OFF	Default	Delete
T2	192.168.0.37	03:17 03:C0 03:E0	7	TV Прием.	✗	Стенд 1	Graphic	OFF	Default	Delete

- «Explain» –

- «Tx Mode» –

Mode»).

(«Graphic Mode»

«Video

- «ATI Mode» –

- «Default» –

( IP )

- «Delete» –

SMM

«Receiver».

«Search»,

«Receiver»

Smart Matrix Multimedia Comnutator

Transmitter/Receiver Set

Transmitter Receiver

Search

No.	IP Address	MAC	Port	Symbol	Status	Explain	USB	Default	Delete
R1	192.153.0.11	00:17 11:03:09:00	1	1x1	●	Стенд 1	ON	Default	Delete
R2	192.153.0.31	00:17 33 00:08:F3	2	1x2	●	Стенд 1	OFF	Default	Delete
R3	192.153.0.31	00:17 33 00:08:F1	1	2x1	●	Стенд 1	OFF	Default	Delete
R4	192.153.0.31	00:17 11:03:09:00	4	2x2	●	Стенд 1	ON	Default	Delete

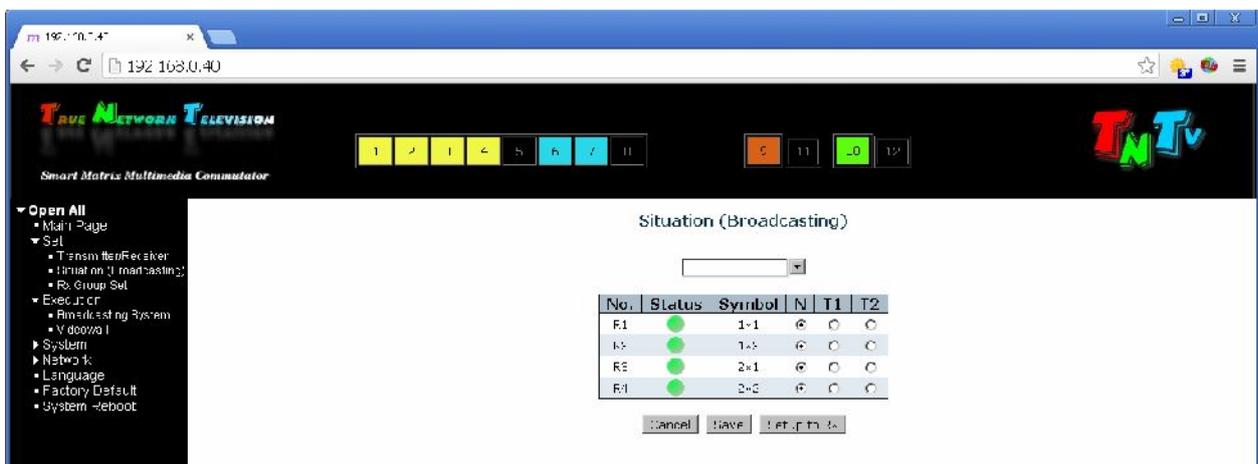
- «No.» – ( «R1», «R2» . . ).
- «IP Address» – IP
- «MAC» – MAC
- «Port» –
- «Symbol» –
- «Status» –
- «Explain» –
- «USB» – / USB
- «Default» – ( IP )
- «Delete» – SMM

### 3.2.2

( «Set» «Situation(Broadcasting)»)

SMM

«Situation (Broadcasting)».



«N»,  
 («T1», «T2» . .).

(«T1», «T2» . .)

No.	Status	Symbol	N	T1	T2
R1	●	1x1	⊙	⊙	⊙
R2	●	1x2	⊙	⊙	⊙
R3	●	2x1	⊙	⊙	⊙
R4	●	2x2	⊙	⊙	⊙

Cancel Save Setup to Rx

«T1»

«T1» «R3»

(«R1», «R2» . .).

No.	Status	Symbol	N	T1	T2
R1	●	1x1	○	○	⊙
R2	●	1x2	○	⊙	○
R3	●	2x1	○	○	⊙
R4	●	2x2	○	⊙	○

Cancel Save Setup to Rx

«N» ( . «Nothing» – )

«N»,

«N».

12:00-14:00

No.	Status	Symbol	N	T1	T2
R1	●	1x1	○	○	⊙
R2	●	1x2	⊙	○	○
R3	●	2x1	○	⊙	○
R4	●	2x2	○	⊙	○

Cancel Save Setup to Rx

«N».

«R2»

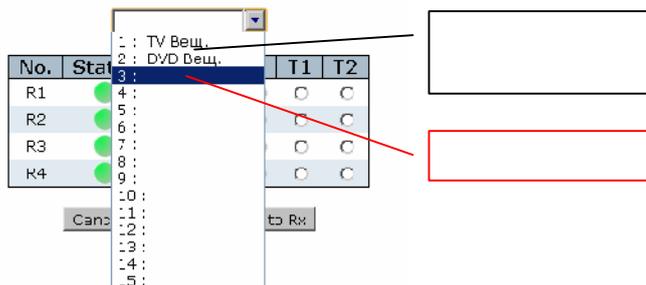
( , )

( )



«Save».

«Cancel».



12:00-14:00

No.	Status	Symbol	N	T1	T2
R1	●	1x1	○	○	⊙
R2	●	1x2	○	⊙	○
R3	●	2x1	○	○	⊙
R4	●	2x2	○	⊙	○

Buttons: Cancel, Save, Setup to Rx

«Setup to Rx».

- 15.

### 3.2.3

( «Set» «Rx Group Set» )

«Rx Group Set».



SMM

16-

- «No.» – ((G1», «G2» . . .)
- «Source» – ( )
- «Symbol» –
- «Members» – ( ),
- «Clear» – ( ).

SMM

16-

«Symbol».

No.	Source	Symbol	Members	Clear
G1	null	Стенд	null	Clear
G2	null	null	null	Clear
G3	null	null	null	Clear

( «Null»),



- «No.» – («R1», «R2» . . .)
- «Status» –
- «Symbol» –
- «Group» – ,

(«Null»).

«Group»,

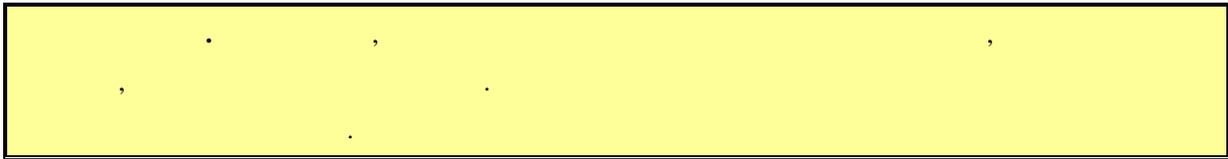
).

No.	Status	Symbol	Group
R1	●	1x1	null
R2	●	1x2	null
R3	●	2x1	G2
R4	●	2x2	G4
			G5
			G6
			G7
			G8
			G9
			G10
			G11
			G12
			G13
			G14
			G15
			G16

Select **G1** Members

Back

No.	Status	Symbol	Group
R1	●	1x1	G1
R2	●	1x2	G1
R3	●	2x1	null
R4	●	2x2	null



«Back».

«Members»

No.	Source	Symbol	Members	Clear
G1	null	Стенд 1	R1,R2	Clear
G2	null	null	null	Clear
G3	null	null	null	Clear

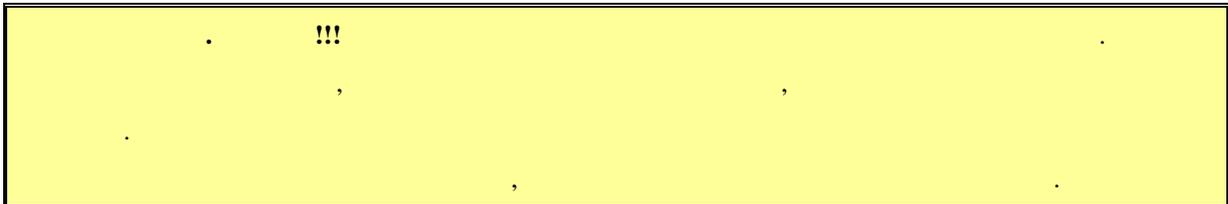


(            ),

«Source»,

No.	Source	Symbol	Members	Clear
G1	null	Стенд 1	R1,R2	Clear
G2	T1: DVD	null	null	Clear
G3	T2: TV Ресив.	null	null	Clear
G4	null	null	null	Clear
G5	null	null	null	Clear

«Clear»



### 3.3

(            «Execution» )

SMM

SMM

( - )



«Execution».

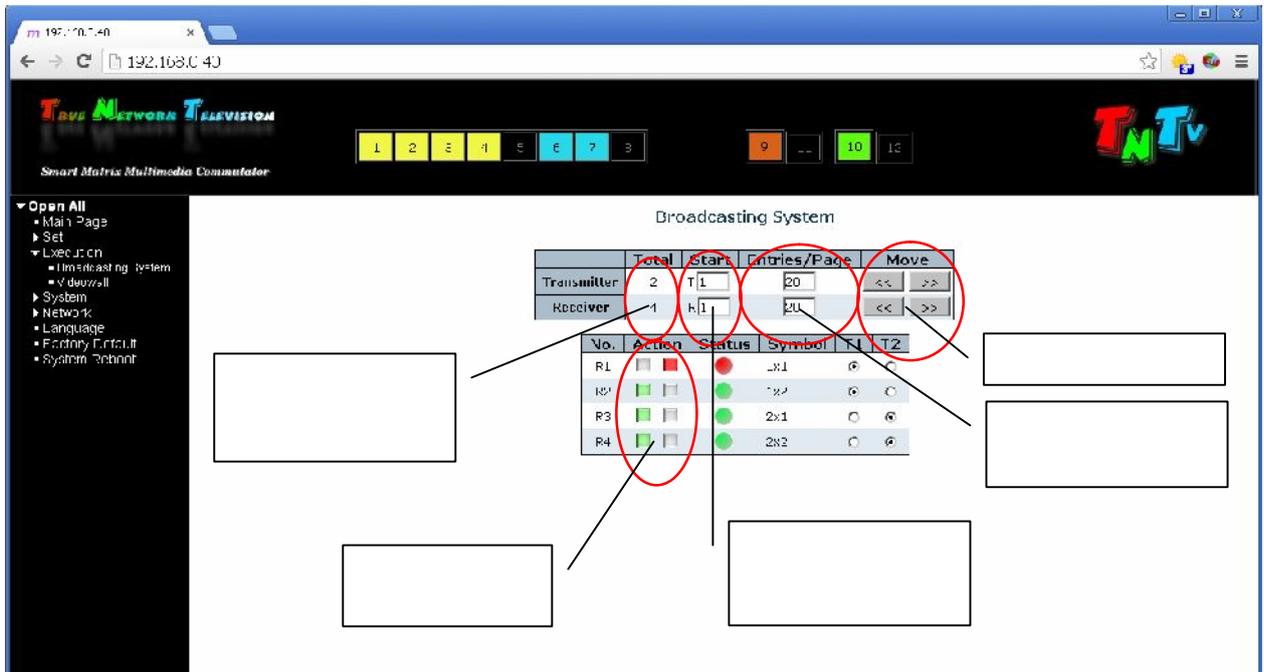
### 3.3.1

( «Execution» «Broadcasting System» )

3.2.2 «

»

«Broadcasting System».



3.2.2 «

»).

«Action»

«N»,

«Action»

(«Transmitter») c

(«Receiver»)

«Start»



«Start», «Entries/Page».

«<<» ( ) «>>» ( ).

«Total»

SMM

### 3.3.2

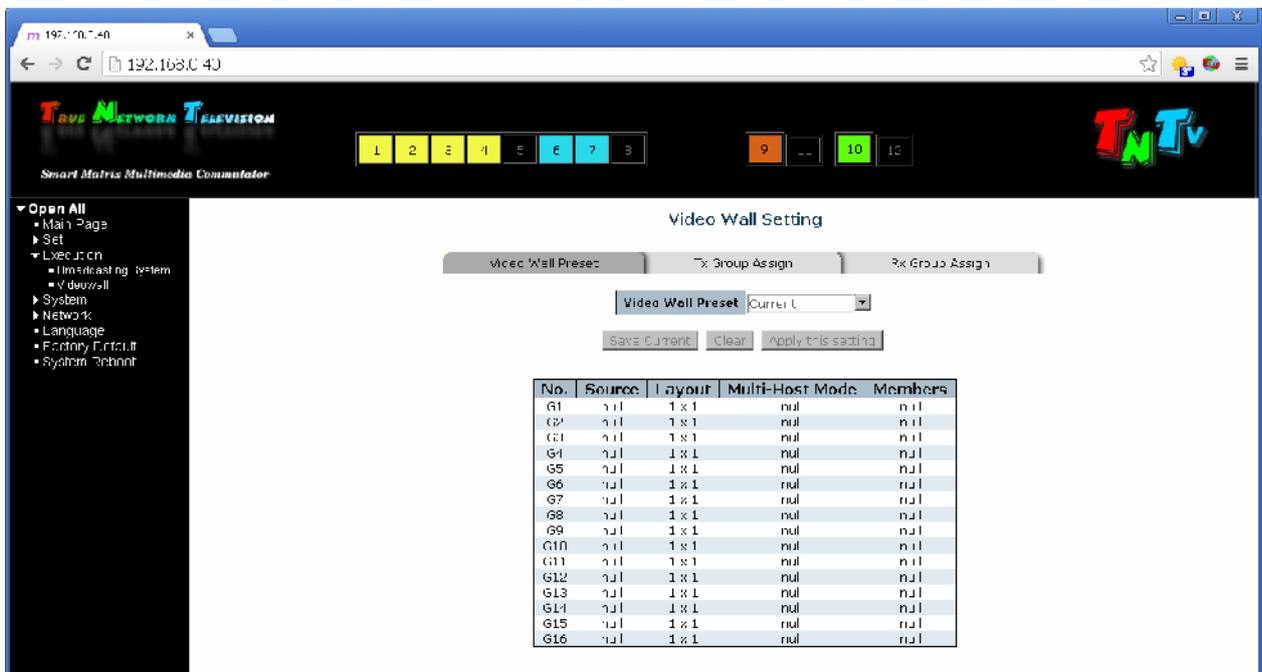
( «Execution» «Videowall»)

SMM



(HDMI VGA).

«Videowall».



«Video Wall Preset», «Tx Group Assign», «Rx Group Assign».



«Video Wall Preset» –

(«Current»).

– 15.

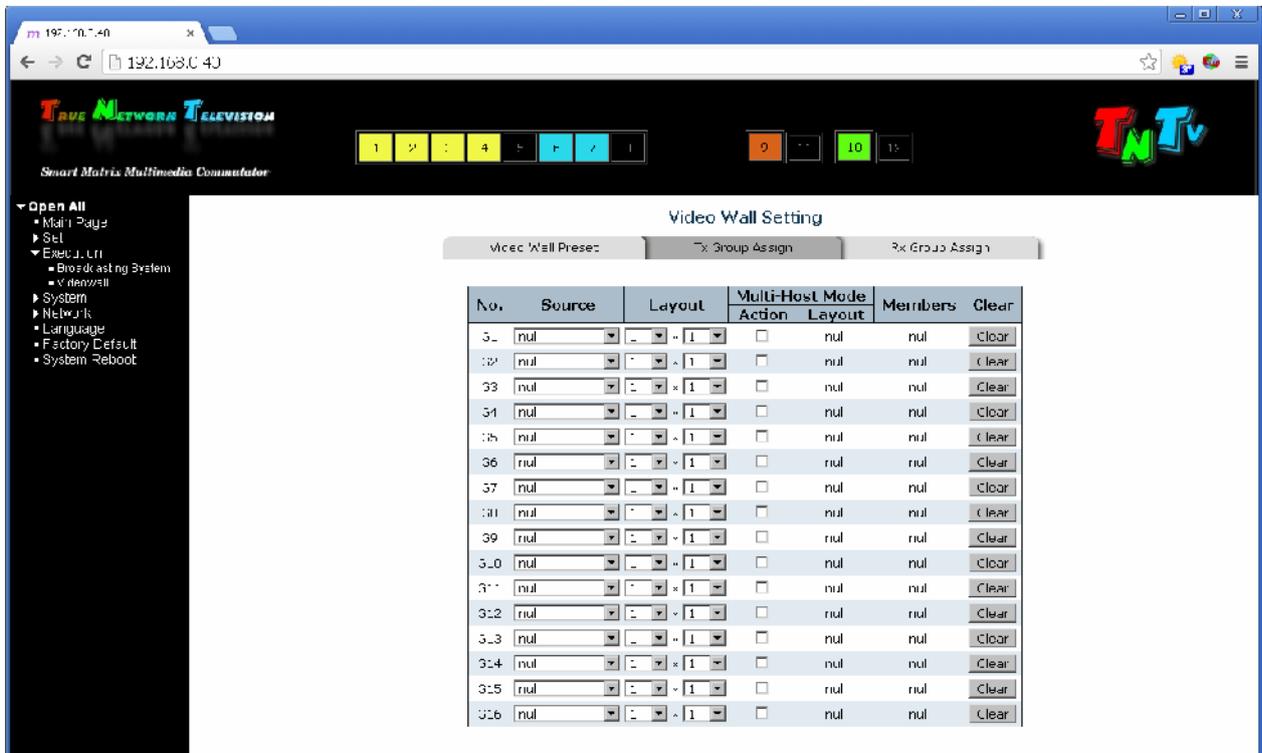
– 16 («G1»... «G16»).

«Tx Group Assign».

«Clear»,

«Tx Group Assign» –

«Tx Group Assign».



- «No.» –

. («G1», «G2» ...).

- «Source» –

«Null» -

No.	Source	Layout	Multi-Host Mode		Members	Clear
			Action	Layout		
G1	nul	1 x 1	<input type="checkbox"/>	null	null	Clear
G2	T1: DVD	1 x 1	<input type="checkbox"/>	null	null	Clear
G3	T2: TV Receiv...	1 x 1	<input type="checkbox"/>	null	null	Clear
G4	nul	1 x 1	<input type="checkbox"/>	null	null	Clear



- «Layout» –

( ) ( ).

SMM

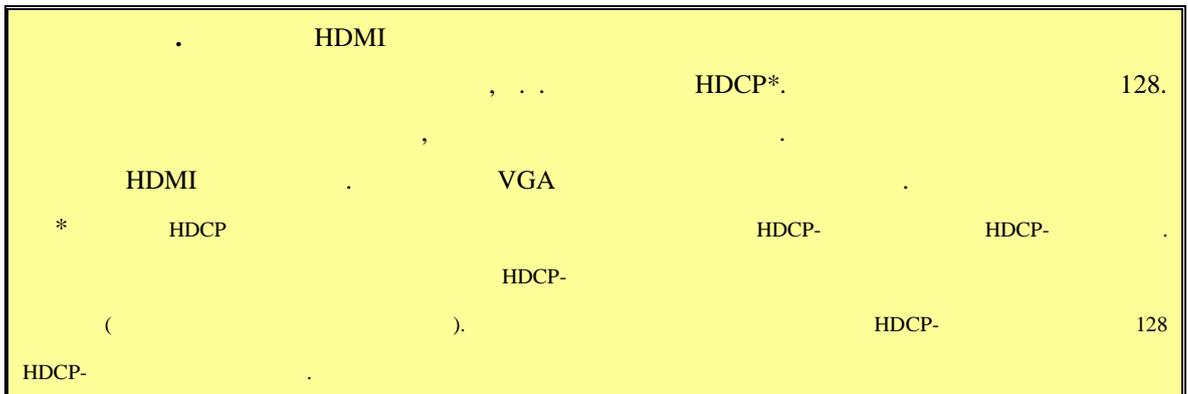
– 16.

– 16x16,

1x1.

No.	Source	Layout	Multi-Host Mode		Members	Clear
			Action	Layout		
G1	null	1 x 1	<input type="checkbox"/>	null	null	Clear
G2	null	2 x 1	<input type="checkbox"/>	null	null	Clear
G3	null	3 x 1	<input type="checkbox"/>	null	null	Clear
G4	null	4 x 1	<input type="checkbox"/>	null	null	Clear
G5	null	5 x 1	<input type="checkbox"/>	null	null	Clear
G6	null	6 x 1	<input type="checkbox"/>	null	null	Clear
G7	null	7 x 1	<input type="checkbox"/>	null	null	Clear
G8	null	8 x 1	<input type="checkbox"/>	null	null	Clear
G9	null	9 x 1	<input type="checkbox"/>	null	null	Clear
G10	null	10 x 1	<input type="checkbox"/>	null	null	Clear
G11	null	11 x 1	<input type="checkbox"/>	null	null	Clear
G12	null	12 x 1	<input type="checkbox"/>	null	null	Clear
G13	null	13 x 1	<input type="checkbox"/>	null	null	Clear
G14	null	14 x 1	<input type="checkbox"/>	null	null	Clear
G15	null	15 x 1	<input type="checkbox"/>	null	null	Clear
G16	null	16 x 1	<input type="checkbox"/>	null	null	Clear

No.	Source	Layout	Multi-Host Mode		Members	Clear
			Action	Layout		
G1	null	2 x 1	<input type="checkbox"/>	null	null	Clear
G2	null	1 x 2	<input type="checkbox"/>	null	null	Clear
G3	null	1 x 3	<input type="checkbox"/>	null	null	Clear
G4	null	1 x 4	<input type="checkbox"/>	null	null	Clear
G5	null	1 x 5	<input type="checkbox"/>	null	null	Clear
G6	null	1 x 6	<input type="checkbox"/>	null	null	Clear
G7	null	1 x 7	<input type="checkbox"/>	null	null	Clear
G8	null	1 x 8	<input type="checkbox"/>	null	null	Clear
G9	null	1 x 9	<input type="checkbox"/>	null	null	Clear
G10	null	1 x 10	<input type="checkbox"/>	null	null	Clear
G11	null	1 x 11	<input type="checkbox"/>	null	null	Clear
G12	null	1 x 12	<input type="checkbox"/>	null	null	Clear
G13	null	1 x 13	<input type="checkbox"/>	null	null	Clear
G14	null	1 x 14	<input type="checkbox"/>	null	null	Clear
G15	null	1 x 15	<input type="checkbox"/>	null	null	Clear
G16	null	1 x 16	<input type="checkbox"/>	null	null	Clear



- «Multi-Host Mode/Action» –

/





No.	Source	Layout	Multi-Host Mode		Members	Clear
			Action	Layout		
G1	T1 DVD	2 x 2	<input checked="" type="checkbox"/>	2 / 2	R1 (1 / 2): 1x1 R3 (1 / 2): 2x1 R4 (2 / 2): 2x2	Clear



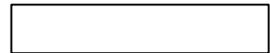
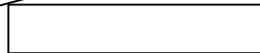
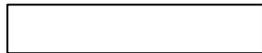
1- 2-



- «Multi-Host Mode/Layout» – ( )

- «Members» – ( ), ( ).

No.	Source	Layout	Multi-Host Mode		Members	Clear
			Action	Layout		
G1	T1: DVD	2 x 2	<input checked="" type="checkbox"/>	2 / 2	R1 (1 / 2): 1x1 R3 (1 / 2): 2x1 R4 (2 / 2): 2x2	Clear

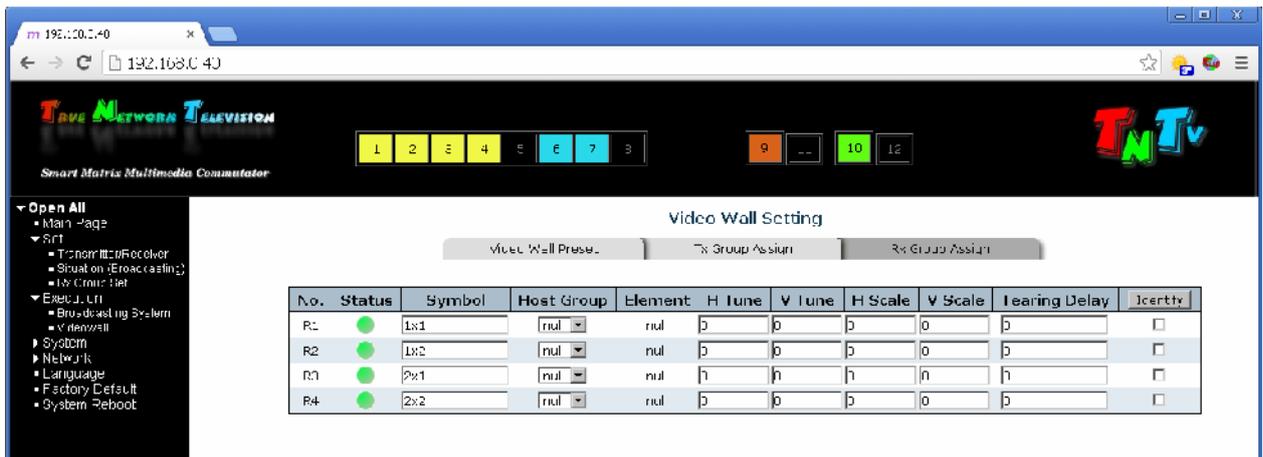


- «Clear» –

«Rx Group Assign».

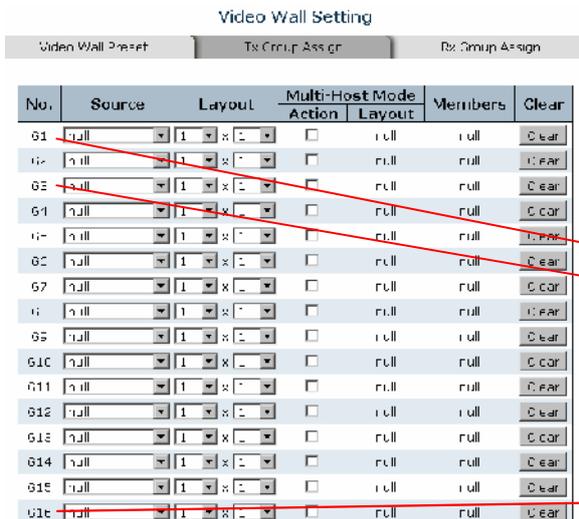
( )





- «No.» – ( )
- «Status» – ( )
- «Symbol» – ( )
- «Host Group» – ( )

SMM  
16-



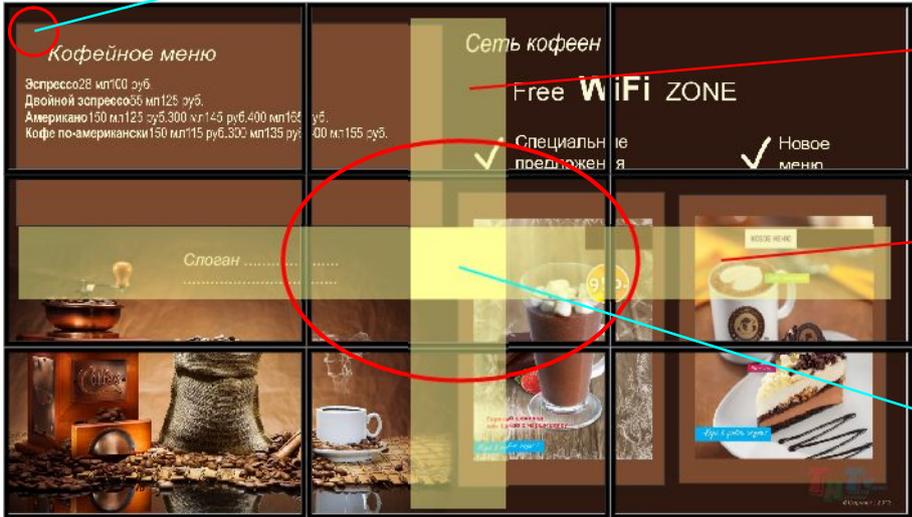
No.	Status	Symbol	Host Group	Element	H Tune	V Tune	H Scale
R1	●	1x1	Null	Null	0	0	0
R2	●	1x2	Null	Null	0	0	0
R3	●	2x1	Null	Null	0	0	0
R4	●	2x2	Null	Null	0	0	0

- «Element» – ( )



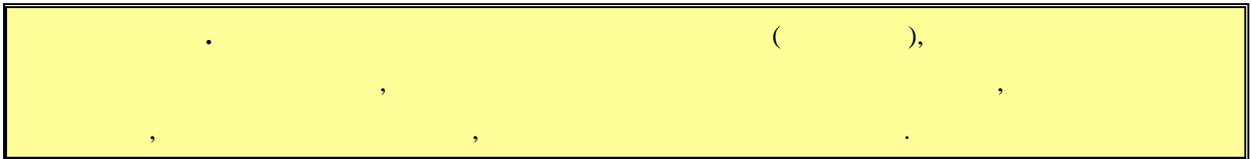
No.	Status	Symbol	Host Group	Element	H Tune	V Tune	H Scale	V Scale	Tearing Delay	Identify
R.1	●	1x1	G1	1	0	0	0	0	0	<input type="checkbox"/>
R.2	●	1x2	nu1	2	0	0	0	0	0	<input type="checkbox"/>
R.3	●	2x1	nu1	nu1	0	0	0	0	0	<input type="checkbox"/>
R.4	●	2x2	nu1	nu1	0	0	0	0	0	<input type="checkbox"/>

: -1, -1



(«Multi-Host Mode»),

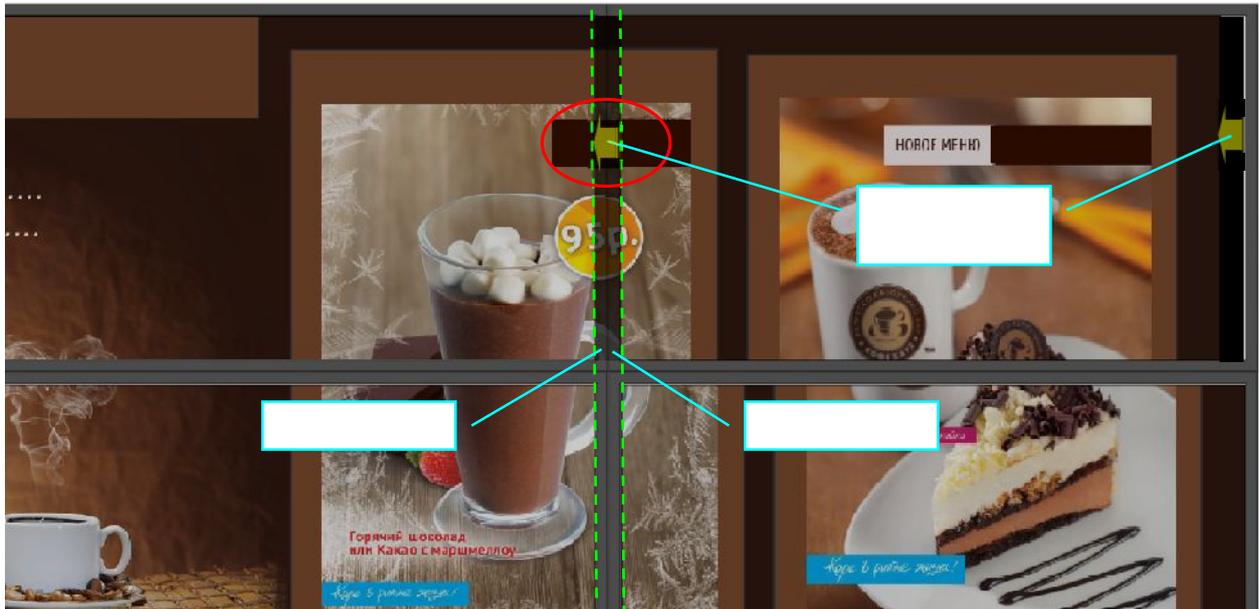
No.	Status	Symbol	Host Group	Element	H Tune	V Tune	H Scale	V Scale	Tearing Delay	Identify
R.1	●	1x1	G1	1	0	0	0	0	0	<input type="checkbox"/>
R.2	●	1x2	G2	1	0	0	0	0	0	<input type="checkbox"/>
R.3	●	2x1	G1	1	0	0	0	0	0	<input type="checkbox"/>
R.4	●	2x2	G1	2	0	0	0	0	0	<input type="checkbox"/>



- «H Tune» –



«H Tune».



),  
)

10

(

Scale»



: -1000 1000.

- «V Tune» – «H Tune»
- «H Scale» –

«H Tune»,

( «H Tune»).

».

**Кофейное меню**  
Эспрессо 28 мл 100 руб.  
Двойной эспрессо 55 мл 125 руб.  
Американо 150 мл 125 руб. 300 мл 145 руб. 400 мл 165 руб.  
Кофе по-американски 150 мл 115 руб. 300 мл 135 руб. 400 мл 155 руб.

**Сеть кофеен**  
Free WiFi ZONE  
✓ Специальные предложения  
✓ Новое меню

Слоган .....

95 р.

ТОБОЛ МЕНЮ

©Copyright 2013

« »

: 0 10000.

- «V Scale» –

«H Scale».

: -10000 10000.

«H Tune», «V Tune», «H Scale»	«V Scale»	1x1
-------------------------------	-----------	-----

- «Tearing Delay» –

«Tearing Delay»

0

(

).



:0 30000.

- «Identify» – ( ).

«Identify».

«R1», «R2», «R3»,

«Identify».

( ),



«Video Wall Preset»,

«Save Current».

«Clear».

«Apply this setting».

16-

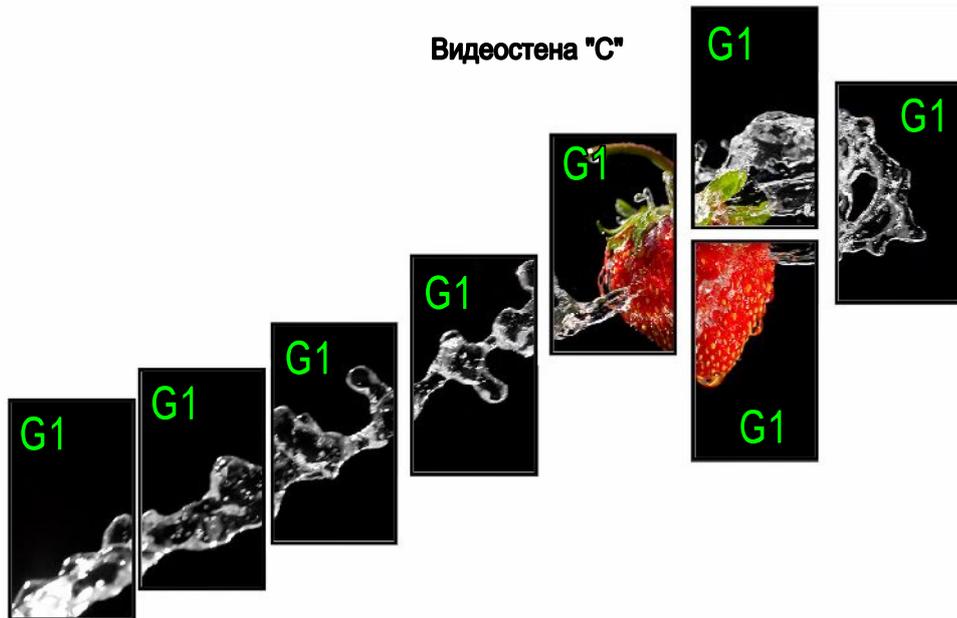
( )

( )

Видеостена "B"

Видеостена "A"





«A» ( . ) ,

4- , 3x3, - «G1», «G2», «G3» «G4».

(«G1», «G2», «G3» «G4»),

«Tx Group Assign»,

4.

( .).

«G1»,

( .).

«G2»,

..

«Rx Group Assign».

«Host Group» («G1», «G2», «G3» «G4»)

«Element».

,  
2 2  
1 1



No.	Status	Symbol	Host Group	Element	H Time	V T
R1	●	1<1	all	all	0	E
R2	●	1<2	G1	all	0	E
R3	●	2<1	G2	all	0	E
R4	●	2<2	G3	all	0	E
			G4			
			G5			
			G6			
			G7			
			G8			
			G9			
			G10			
			G11			
			G12			
			G13			
			G14			
			G15			
			G16			

- ( « » ) , . . . , , , , SMM , . . . , , , , , . . .

### 3.4 ( «System»)

, SMM , . . . , , , , . . .

- - «Save».
- - «Reset».
- - «Refresh».
- - «Auto-Refresh».

### 3.4.1

( «System» «System Configuration»)

«Information Message»

The screenshot shows the True Network Television web interface. The left sidebar menu is expanded, and 'System Configuration' is circled in red. The main content area displays the 'Information Message' page, which is also circled in red. The page contains a table with the following data:

System	
Contact Name	SMMC
Location	TNTV Digital Signage
Description	TNTV Digital Signage
Hardware	
MAC Address	07-70-00-5F-F0-47
Time	
System Date	1970-01-01 00:00:00
System Uptime	00:00:00
Software	
Software Version	Patrol M70000 v2.40
Software Date	2013-06-20 05:25:55+03:00

Buttons for 'Auto-refresh' and 'Refresh' are located at the bottom of the table.

«System Information Configuration»

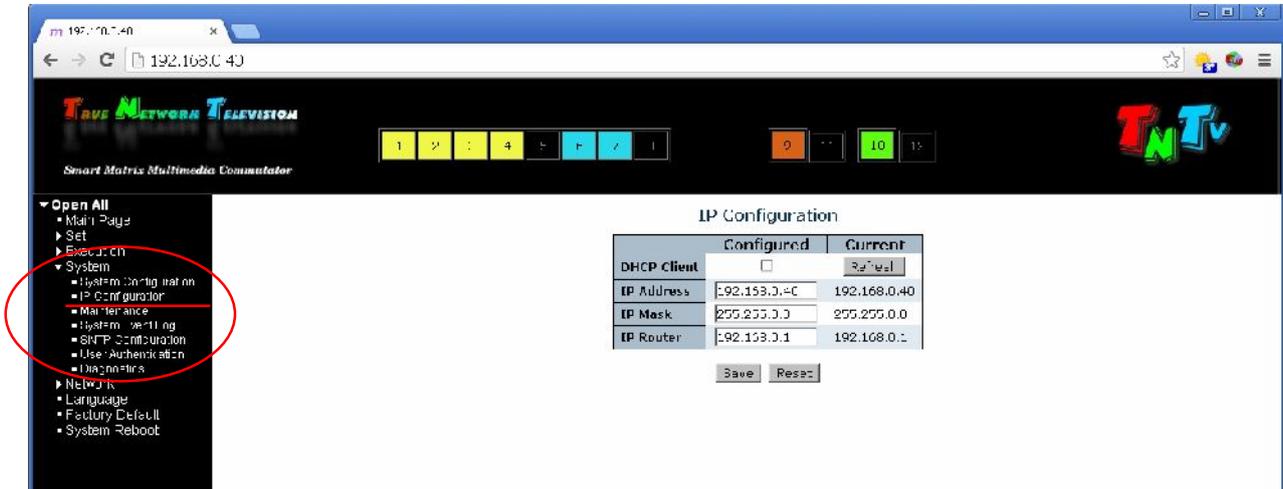
The screenshot shows the True Network Television web interface. The left sidebar menu is expanded, and 'System Configuration' is circled in red. The main content area displays the 'System Information Configuration' page, which is also circled in red. The page contains a form with the following fields:

System Contact	
System Name	SMMC
System Location	
System Description	TNTV Digital Signage
System Timezone Offset (minutes)	210

Buttons for 'Save' and 'Reset' are located at the bottom of the form.

### 3.4.2

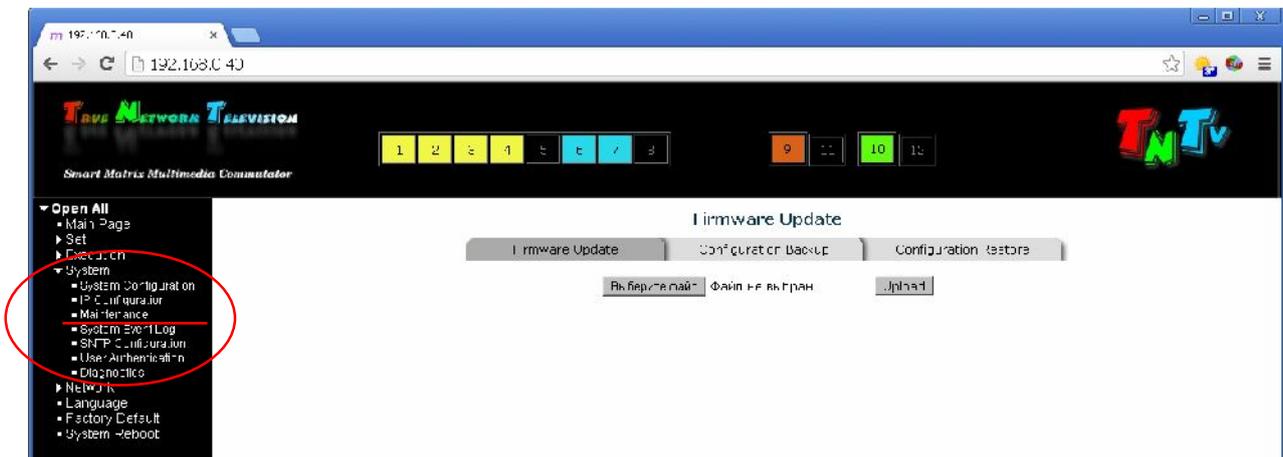
( «System» «IP Configuration»)



### 3.4.3

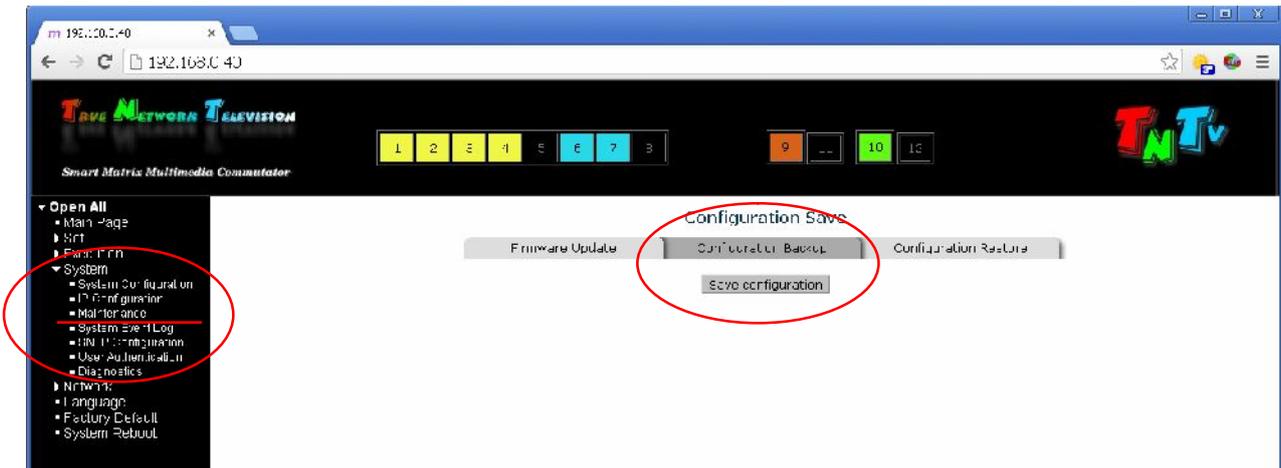
( «System» «Maintenance»)

«Firmware Update»

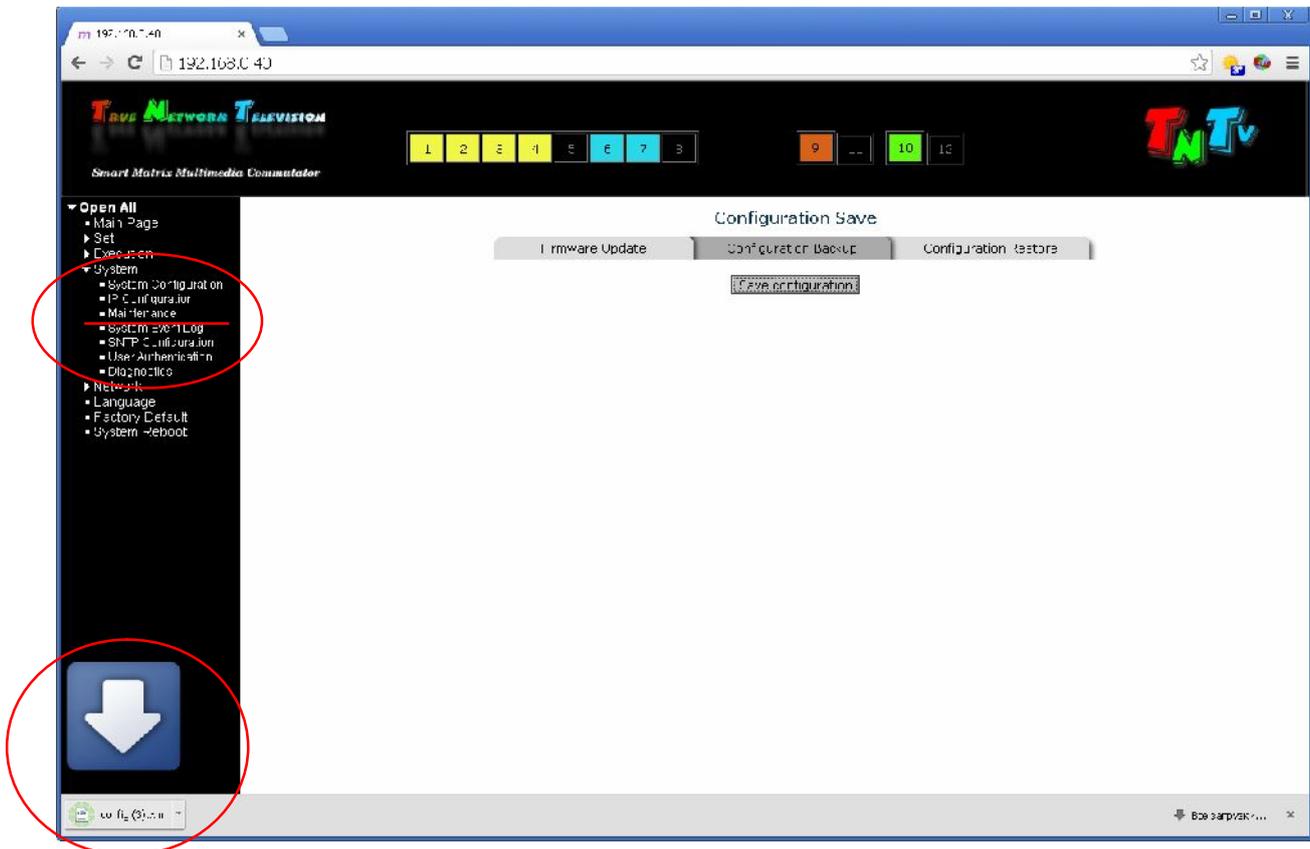


«Configuration Backup»

«Save configuration».



SMM

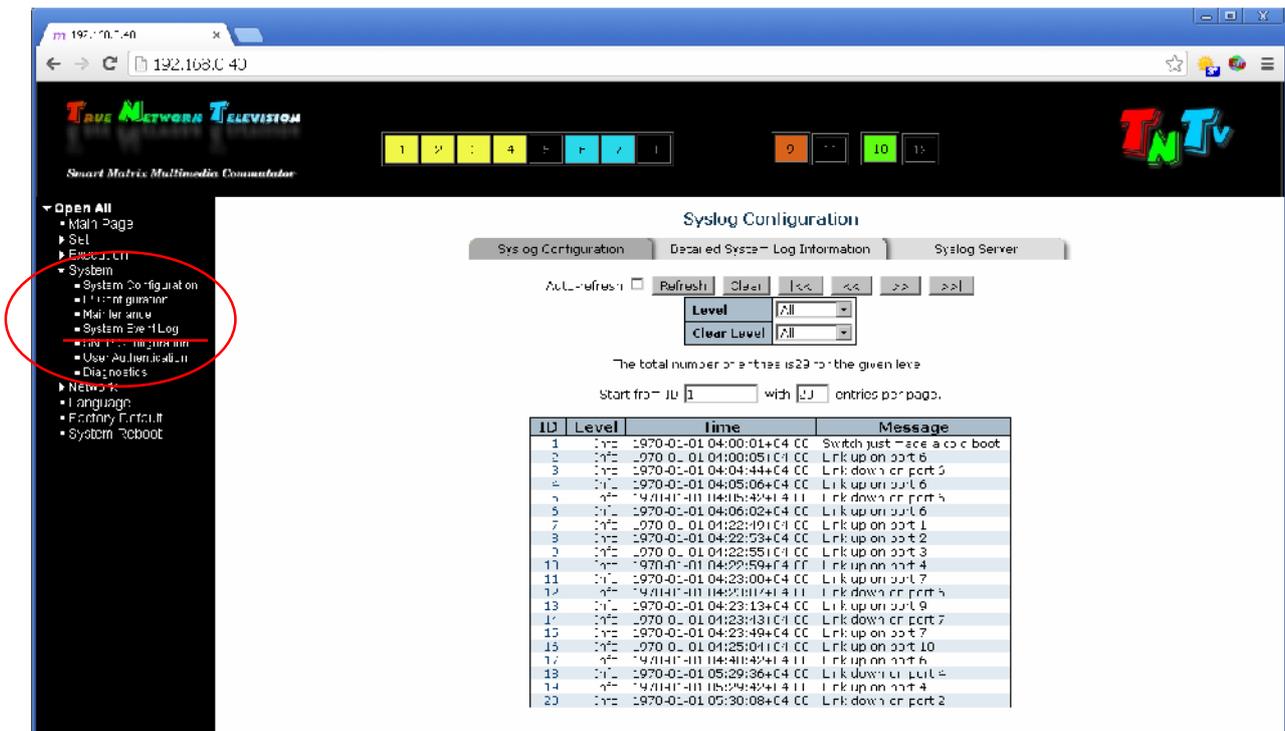


«Configuration Restore»,  
«Upload».



### 3.4.4

( «System» «System EventLog» )





### 3.4.6

( «System» «User Authentication»)

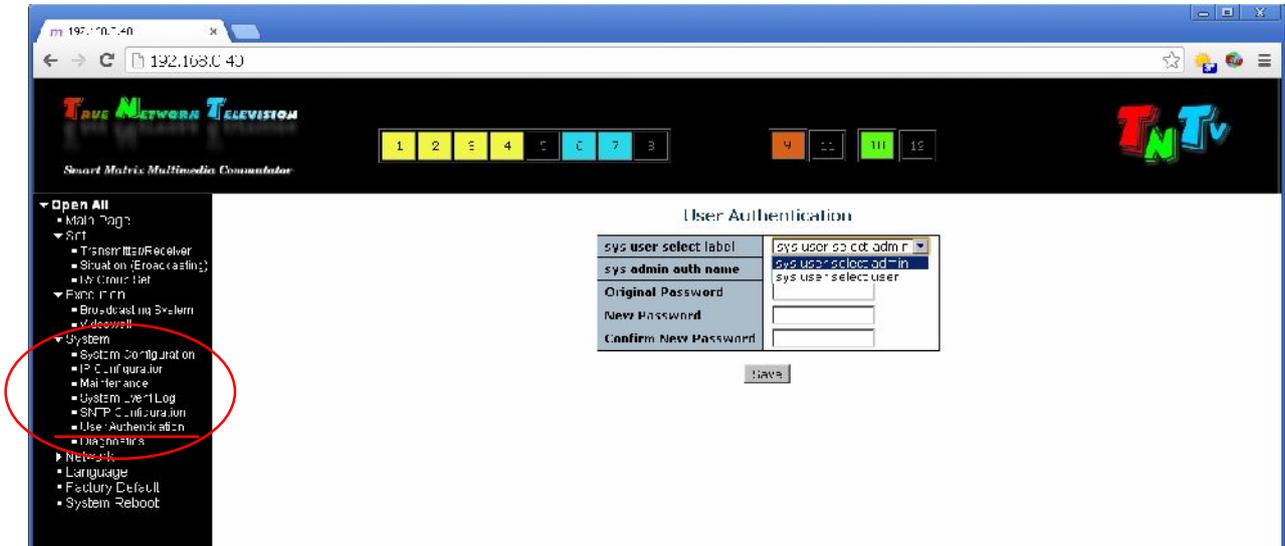
SMM

(admin)

(user).

4 «

».



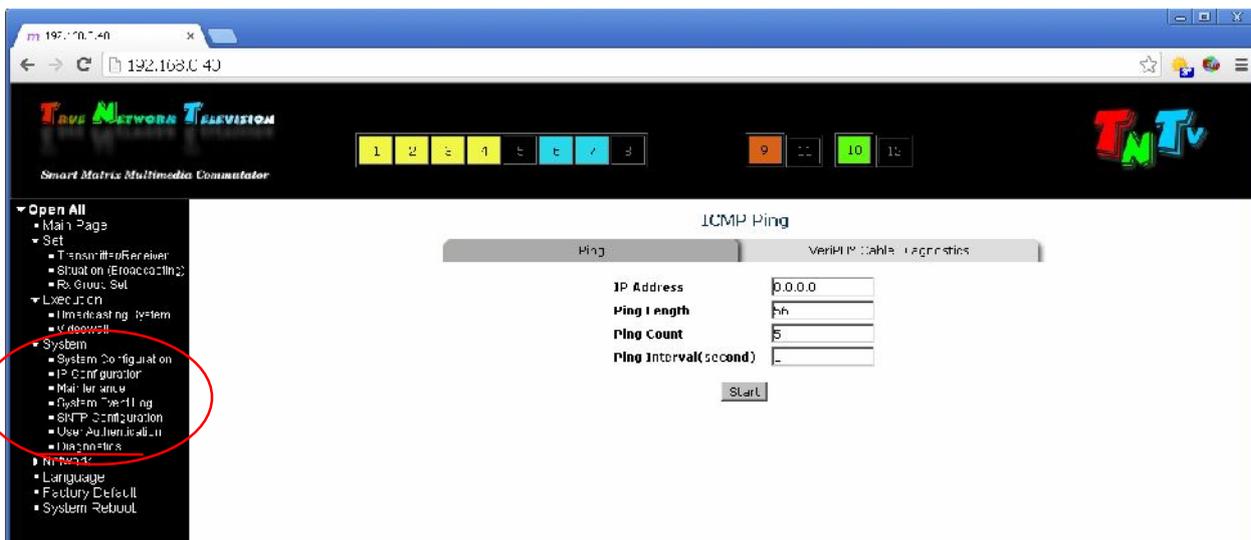
### 3.4.7

( «System» «Diagnostics»)

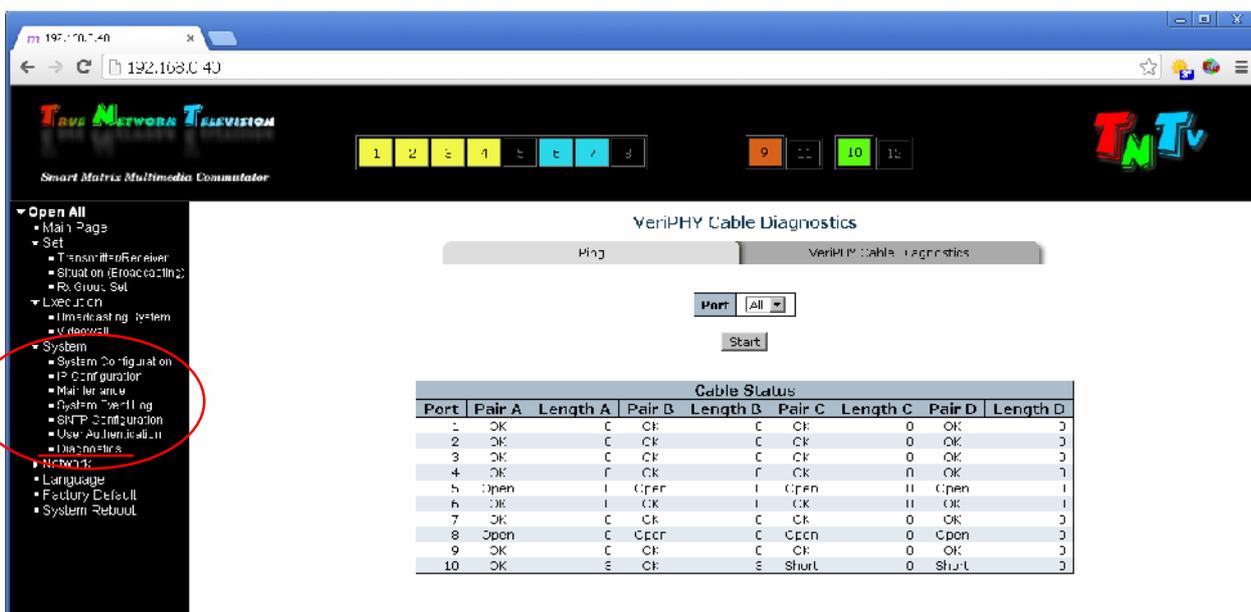
SMM

3.1

).

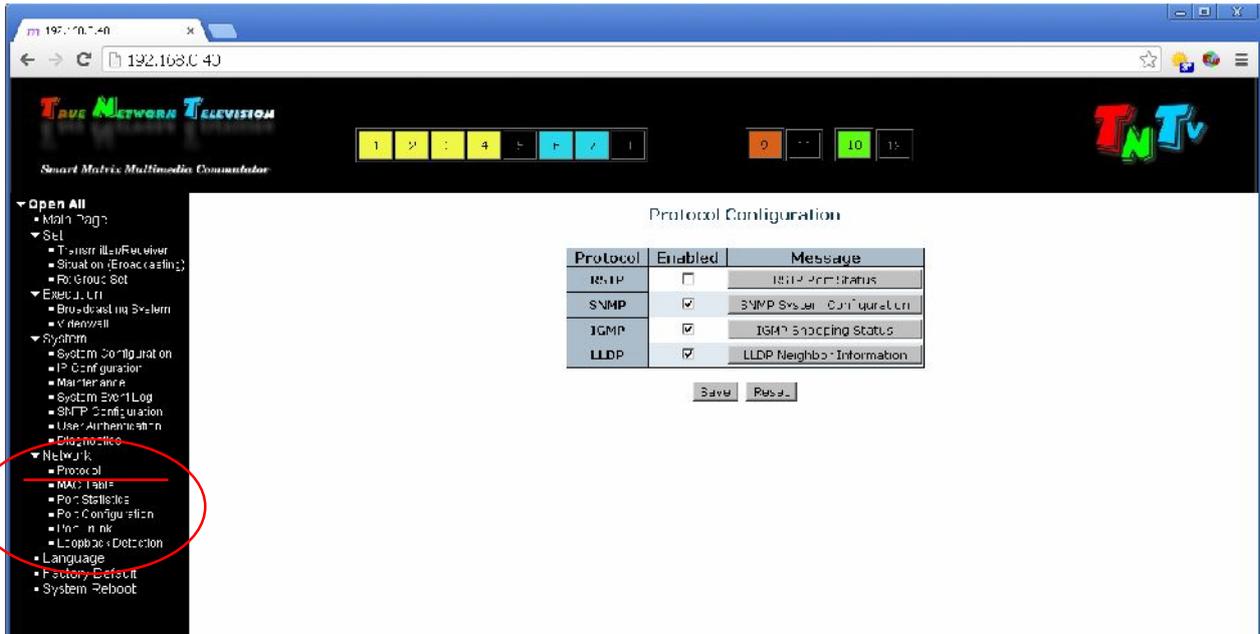


«VeriPHY Cable Diagnostics»



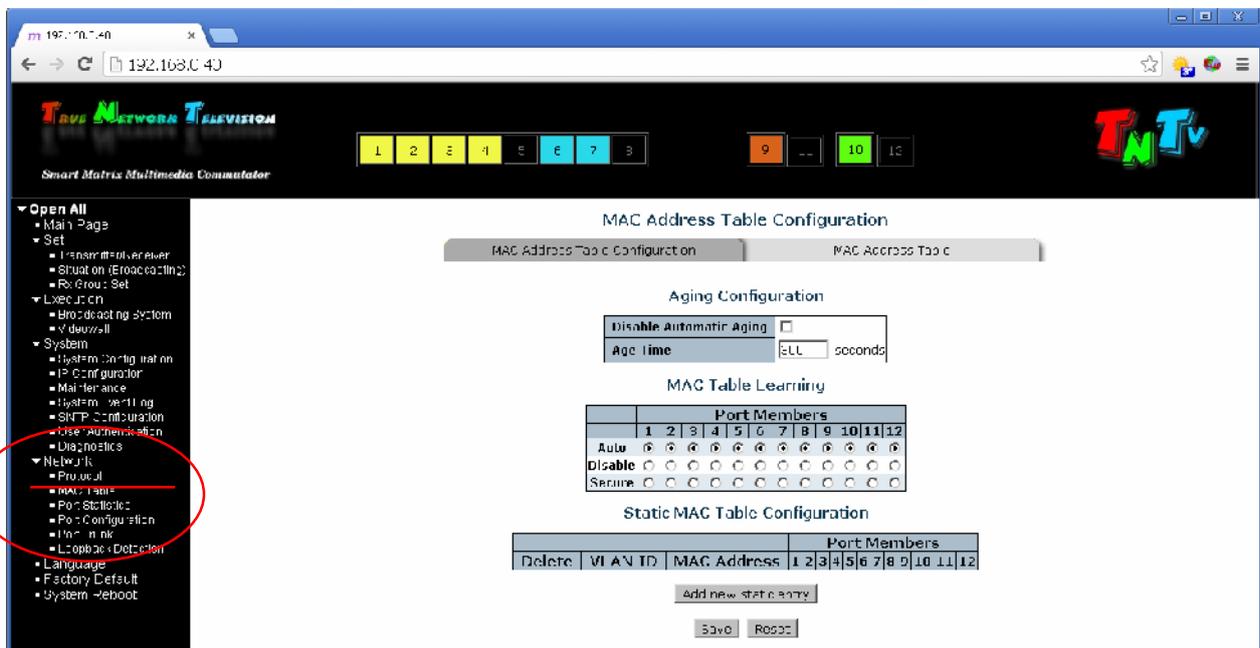
### 3.5 ( «Network» )

#### 3.5.1 ( «Network» «Protocol» )



#### 3.5.2 MAC ( «Network » «MAC Table» )

«MAC Address Table Configuration»





The screenshot shows the 'Detailed Port Statistics Port 1' page. The left sidebar has 'Port Configuration' circled in red. The main content area displays a table with traffic overview and detailed statistics for Port 1.

Receive Total		Transmit Total	
Rx Packets	2013	Tx Packets	8336044
Rx Outputs	2042512	Tx Outputs	11024009176
Rx Unicast	16355	Tx Unicast	48826
Rx Multicast	214	Tx Multicast	101777
Rx Broadcast	21	Tx Broadcast	347
Rx Pause	0	Tx Pause	0

Receive Size Counters		Transmit Size Counters	
Rx 64 Bytes	144	Tx 64 Bytes	12411
Rx 65-127 Bytes	13222	Tx 65-127 Bytes	17082
Rx 128-255 Bytes	153	Tx 128-255 Bytes	14275
Rx 256-511 Bytes	3943	Tx 256-511 Bytes	747590
Rx 512-1023 Bytes	10	Tx 512-1023 Bytes	457983
Rx 1024-1536 Bytes	1	Tx 1024-1536 Bytes	401696
Rx 1527-Bytes	0	Tx 1527-Bytes	0

Receive Error Counters		Transmit Error Counters	
Rx Drops	0	Tx Drops	0
Rx CRC/Alignment	0	Tx Late/Exc. Coll.	0
Rx Undersize	0		
Rx Oversize	0		
Rx Fragments	0		
Rx Jabber	0		
Rx Filtered	0		

### 3.5.4

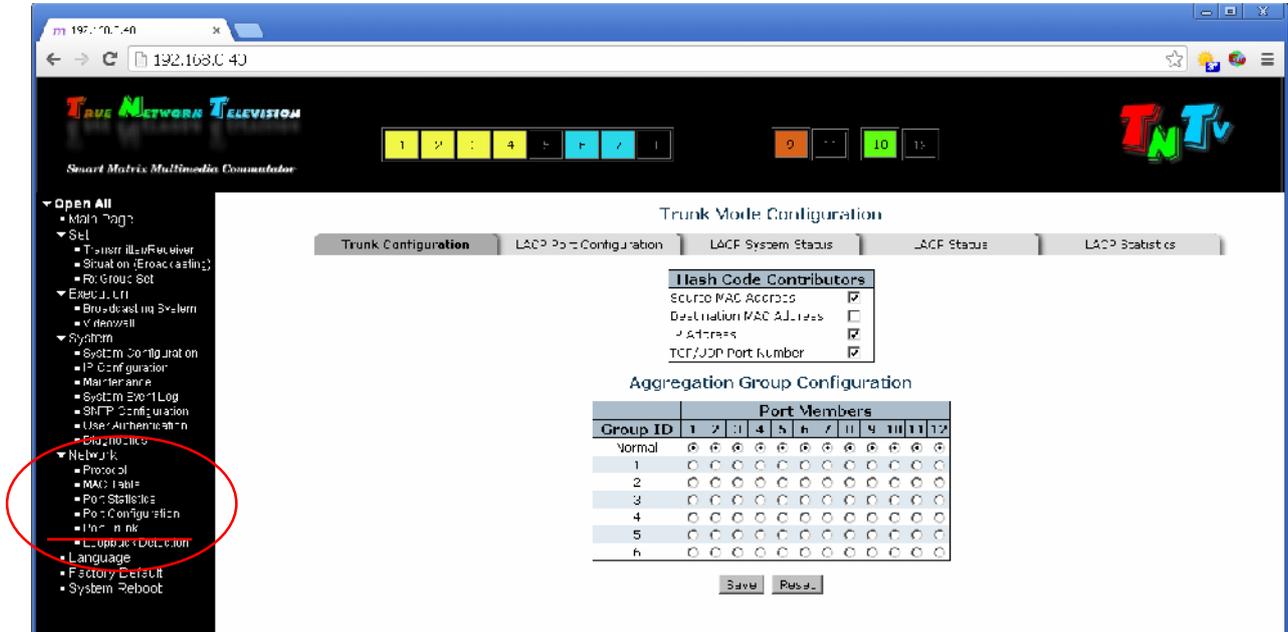
( «Network» «Port Configuration» )

The screenshot shows the 'Traffic Overview' page. The left sidebar has 'Port Configuration' circled in red. The main content area displays a table with port status and speed information.

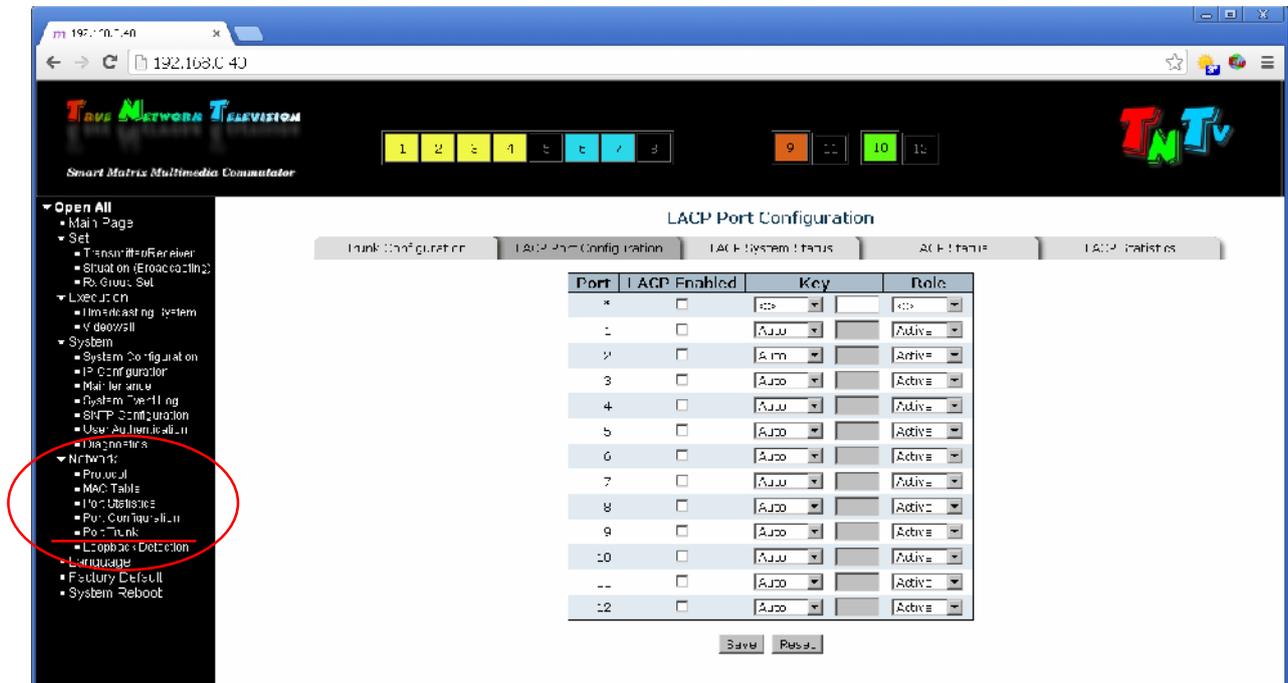
Port	Current	Speed Configured	Link
1	●	1Gfdx	Auto
2	●	1Gfdx	Auto
3	●	1Gfdx	Auto
4	●	1Gfdx	Auto
5	●	1Gfdx	Auto
6	●	1Gfdx	Auto
7	●	1Gfdx	Auto
8	●	Down	Auto
9	●	1Gfdx	Auto
10	●	100fdx	Auto
11	●	Down	Auto
12	●	Down	Auto

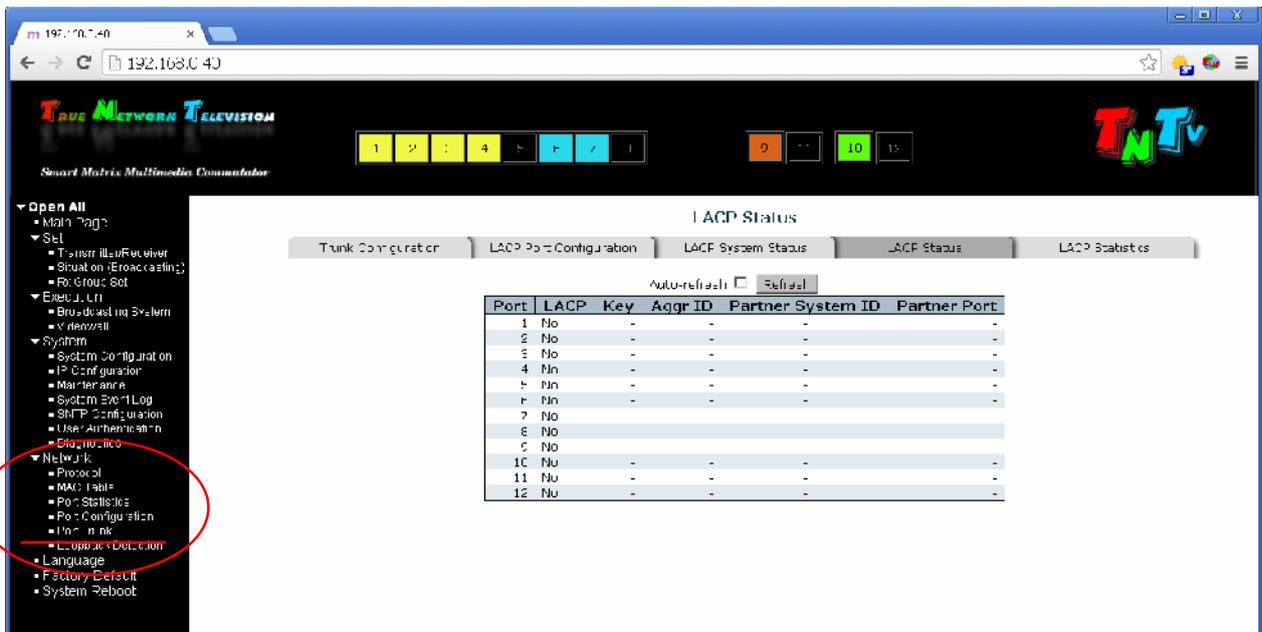
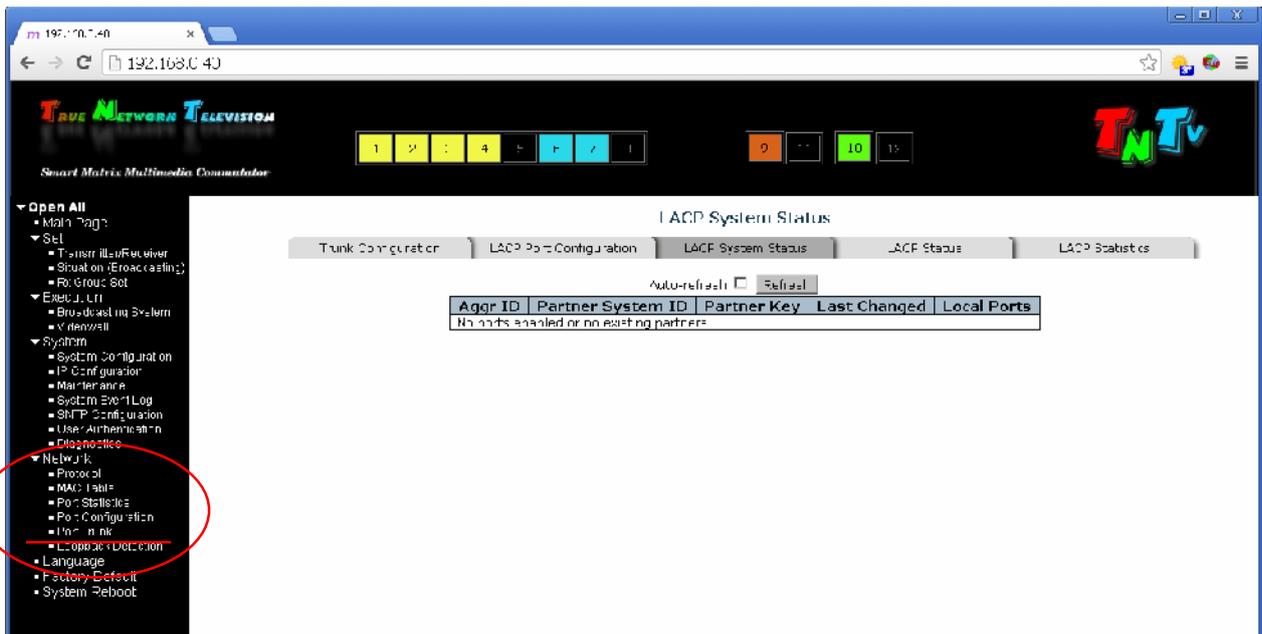
### 3.5.5 (Trunk) («Network» «Port Trunk»)

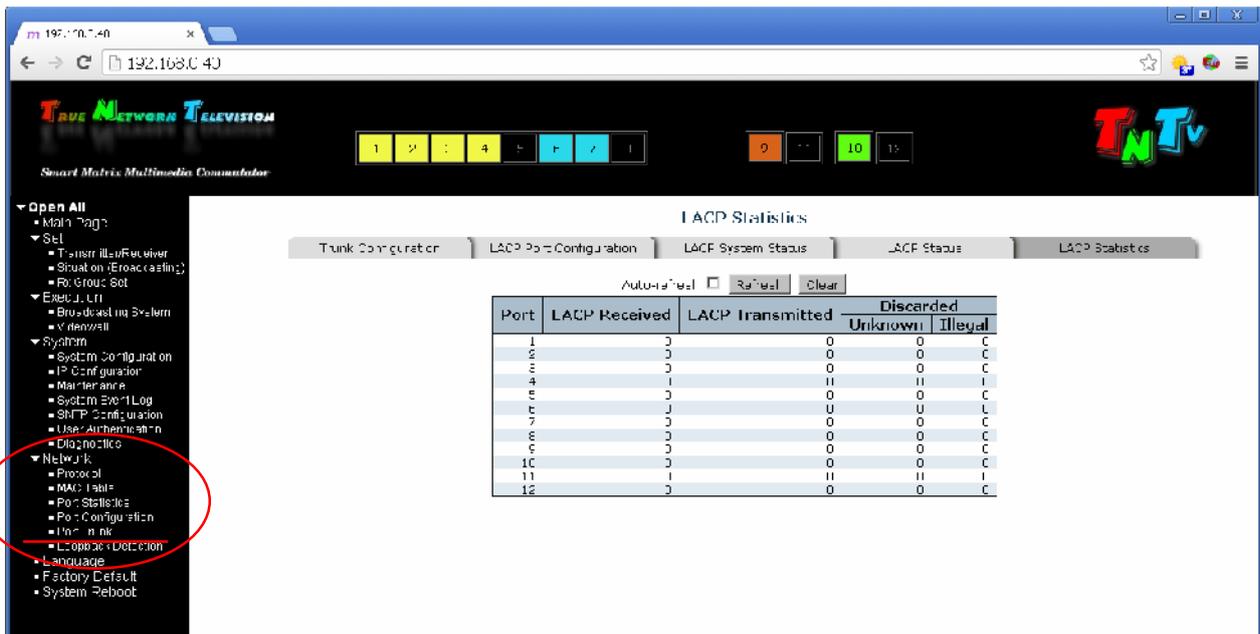
«Trunk Configuration»



«LACP Port Configuration»

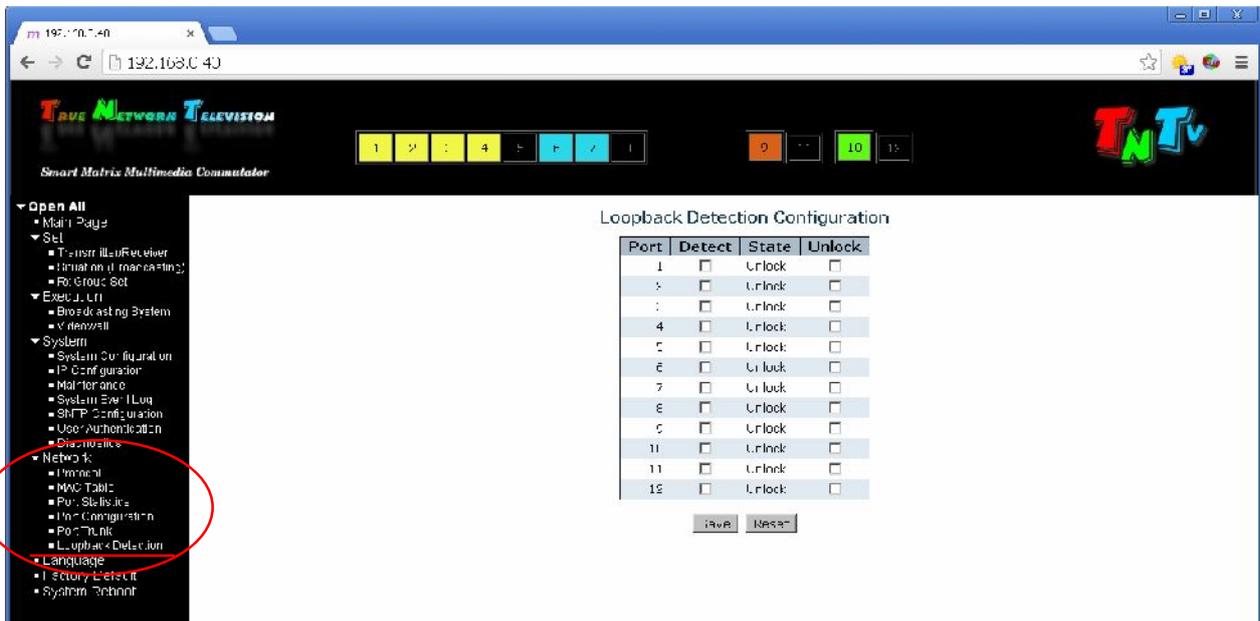




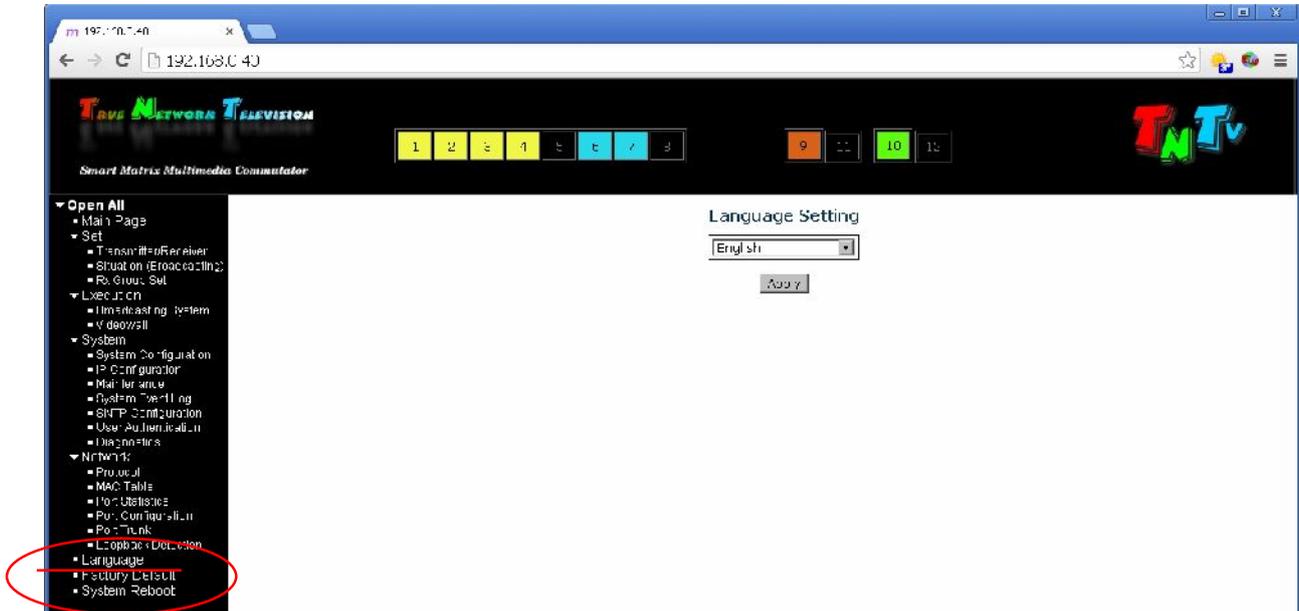


### 3.5.6

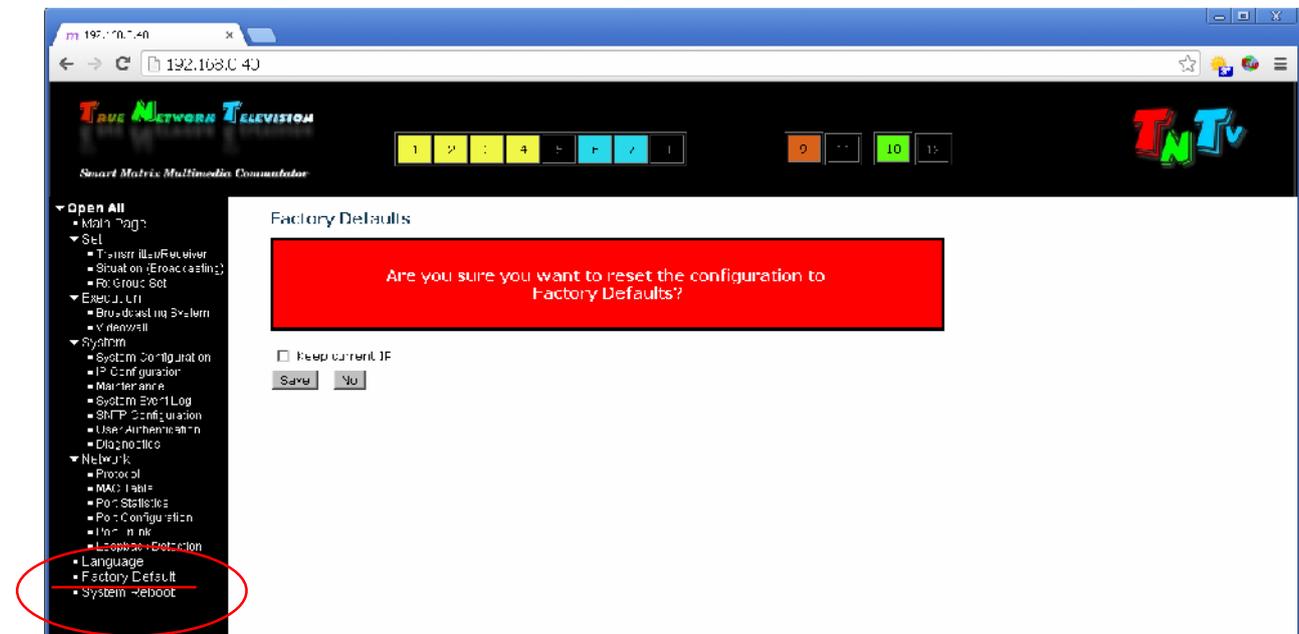
( «Network» «Loopback Detection» )



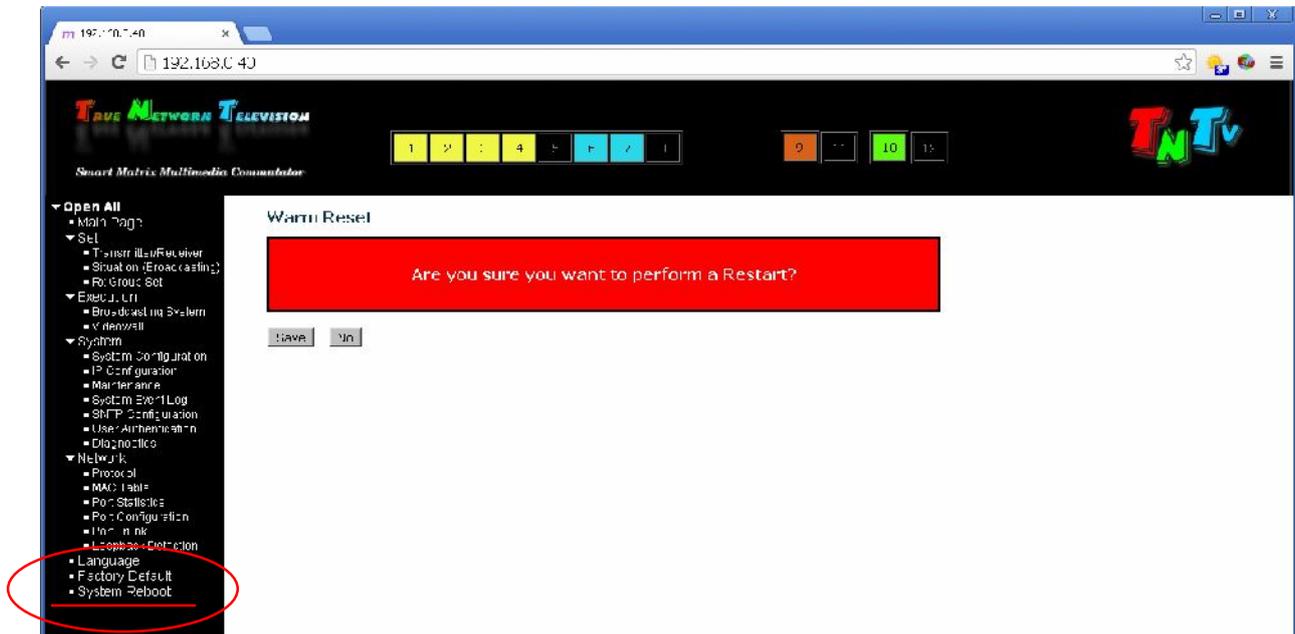
### 3.6 ( «Language»)



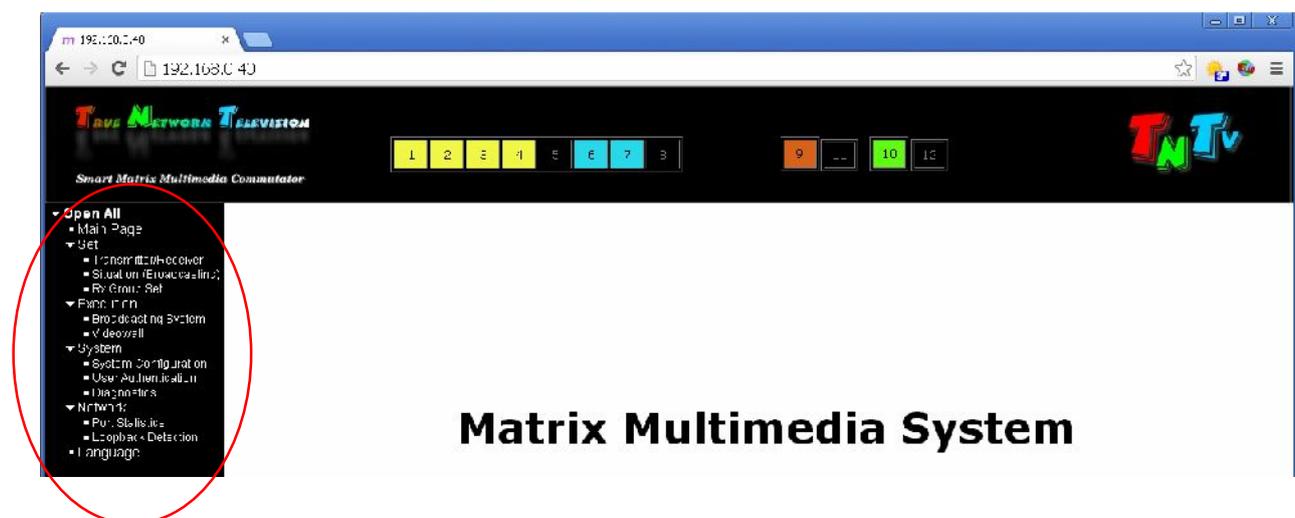
### 3.7 ( «Factory Default»)



IP , IP SMM .  
 «Keep current IP».  
 ( ) «Save».  
 «No»



## ГЛАВА 4: Меню Пользователя



## 4.1 ( «Set»)

### 4.1.1 ( «Set» «Transmitter/Receiver»)

The screenshot shows the 'Transmitter/Receiver Set' configuration page. The interface includes a navigation menu on the left and a main content area with a table of transmitter settings.

No.	IP Address	MAC	Port	Symbol	Status	Explain	Tx Mode	ATI Mode
1	192.158.0.20	00:17:CE:00:12:6C	6	DVB	●	Станд.	Video	OFF
2	192.158.0.27	00:17:1F:00:08:08	7	TV-Регистр.	●	Станд.	График	OFF

The screenshot shows the 'Transmitter/Receiver Set' configuration page. The interface includes a navigation menu on the left and a main content area with a table of transmitter settings.

No.	IP Address	MAC	Port	Symbol	Status	Explain	USB
R1	192.158.0.25	00:17:CE:00:09:0C	4	1x1	●	Станд.	CFF
R2	192.158.0.1	00:17:CE:00:00:00	5	1x2	●	Станд.	CFF
R3	192.158.0.24	00:17:CE:00:08:F4	1	2x1	●	Станд.	CFF
R4	192.158.0.22	00:17:CE:00:08:FC	3	2x2	●	Станд.	CFF

## 4.1.2

( «Set» «Situation(Broadcasting)»)

The screenshot shows the 'Situation (Broadcasting)' configuration page. The interface includes a navigation menu on the left with options like 'Main Page', 'Set', 'Execution', 'System', 'Network', and 'Language'. The main content area features a 'TV Feeds' dropdown menu and a table with the following data:

No.	Status	Symbol	V	T1	T2
R1	●	1x1	⊗	⊗	⊗
R2	●	1x1	⊗	⊗	⊗
R3	●	2x1	⊗	⊗	⊗
R4	●	2x2	⊗	⊗	⊗

Below the table is a 'Setup in 1s' button.

## 4.1.3

( «Set» «Rx Group Set»)

The screenshot shows the 'Rx Group Set' configuration page. The interface includes a navigation menu on the left with options like 'Main Page', 'Set', 'Execution', 'System', 'Network', and 'Language'. The main content area features a table with the following data:

No.	Source	Symbol	Members
01	T1: DVI	CHANN 1	R1, R2
02	T2: TV Feeds	CHANN 2	R3, R4
03	null	null	null
04	null	null	null
05	null	null	null
06	null	null	null
07	null	null	null
08	null	null	null
09	null	null	null
10	null	null	null
11	null	null	null
12	null	null	null
13	null	null	null
14	null	null	null
15	null	null	null
16	null	null	null
17	null	null	null
18	null	null	null
19	null	null	null
20	null	null	null

## 4.2

( «Execution» )

### 4.2.1

( «Execution» «Videowall» )

The screenshot shows a web browser window displaying the 'Video Wall Setting' page. The page has a dark header with the 'True Network Television' logo and navigation buttons. A sidebar on the left lists menu items under 'Open All', including 'Main Page', 'Set', 'Execution', 'System', 'Network', and 'Language'. The main content area features a 'Video Wall Preset' dropdown menu set to 'Current' and an 'Apply this setting' button. Below this is a table with columns: No., Source, Layout, Multi, Lost Mode, and Members.

No.	Source	Layout	Multi	Lost Mode	Members
G1	T1: DVD	2 x 2	mul		31 (2 x 1): 1:1 33 (2 x 1): 2:1 34 (2 x 1): 2:1
G2	T2: TV Program	1 x 1	mul		32 (2 x 1): 2:2
G3	mul	1 x 1	mul		full
G4	mul	1 x 1	mul		full
G5	mul	1 x 1	mul		full
G6	mul	1 x 1	mul		full
G7	mul	1 x 1	mul		full
G8	mul	1 x 1	mul		full
G9	mul	1 x 1	mul		full
G10	mul	1 x 1	mul		full
G11	mul	1 x 1	mul		full
G12	mul	1 x 1	mul		full
G13	mul	1 x 1	mul		full
G14	mul	1 x 1	mul		full
G15	mul	1 x 1	mul		full
G16	mul	1 x 1	mul		full

## 4.3

( «System» )

### 4.3.1

( «System» «User Authentication» )

The screenshot shows a web browser window displaying the 'User Authentication' page. The page has a dark header with the 'True Network Television' logo and navigation buttons. A sidebar on the left lists menu items under 'Open All', including 'Main Page', 'Set', 'Execution', 'System', 'Network', and 'Language'. The main content area features a form with four input fields: 'Original Username' (containing 'user'), 'Original Password', 'New Password', and 'Confirm New Password'. A 'Save' button is located below the form.

### 5.1

SMM

\_\_\_\_\_

\_\_\_\_\_

19" ,

( ).

### 5.2

SMM ,

1Gbit/s,

5 ,

( ,

),

SMM .

SMM ,

SMM ,

## 5.3

	RJ45 – 10 Mini GBIC (SFP) - 2 RS232 – 1 (RJ45) – 1
.	1920x1080 (1080P).
.	100 ( - ), 100 ( - )
.	SMM - 6
Ethernet	GigabitEthernet (1000Base-T)
	TCP/IP
	-1 ( ) – 1 ( )
	-15...+55°
	0...+45 °
	5...90%
	AC 100-220V
	590 .
	280x165x42
	(LAN)