

# Запуск БС Huawei

Настройка FTP на Windows 7 по ссылке  
<https://www.q2w3.ru/nastrojka-ftp-servera-iis-na-windows-7/>

или в LMT во вкладке FTP tool (сертификат SSL не создаем), брандмауэр отключаем.

Каталог FTP не надо прятать в дебри диска, оптимально в корне, например  
e:\FTP\

Для Windows 10 настройки аналогичны, но лучше Win7 т.к на лицензионной обновленной Win 10 надо постоянно отключать брандмауэр и defender или настраивать исключения.

Ip для подключения 192.168.0.49

Для 15 релиза и старше:

Логин: Admin

Пароль: hwbs@com

Для релиза 16 пароль Y5\$7Kc@u#\$tr&LhF (после первого включения требует смены, добавляем в конце 11 получаем Y5\$7Kc@u#\$tr&LhF11)

# Для DBS

командой SET NODE переводим в BTS5900A (нужный тип оборудования выставится после заливки выданного конфига, BTS5900A выбираем для настроек безопасности FTP порта управления VBU)

далее командой SET FTPSCLT выставляем всё как на картинке

The screenshot displays the web interface of a BTS5900-GL device. The browser address bar shows the URL: `https://192.168.0.49/platform/frmwork/view/index.html?2020.07.03.13&time=1617802812344`. The page title is "BTS5900-GL".

The interface includes a navigation tree on the left with categories like "MML Commands", "System Management", "License Management", and "Application Management". The "Set FTP Client Parameter" option is selected.

The main content area shows the execution of the "SET FTPSCLT" command. The output is as follows:

```
RETCODE = 0 Operation succeeded.
---
END
+++ BTS_77_21948_DLN 2021-04-07 17:46:33
OMR #008
%%SET FTPSCLT :%%
RETCODE = 0 Operation succeeded.

FTP Client Parameter List
-----
Transport Encrypted Mode = Auto
Support State Firewall = Yes
Support SSL Certificate Authentication = No
Minimum DH length of FTPS = Auto Diffie-Hellman
Policy ID = 0
TLS Secure Cipher Suite Switch = OFF
(Number of results = 1)
---
END
```

Below the output, the configuration parameters for "SET FTPSCLT" are displayed:

```
SET FTPSCLT: ENCRYPMODE=Auto, SPTSTATEFWL=Yes, SSLCERTAUTH=No, MINDHLEN=DH_0, POLICYID=0, TLSSECCSSW=OFF;
```

The configuration form includes the following fields:

- Command History: SET FTPSCLT
- Command (F5): SET FTPSCLT
- Transport Encrypted Mode: Auto(Auto)
- Support State Firewall: Yes(Yes)
- Support SSL Certificate Authentication: No(No)
- Minimum DH length of FTPS: DH\_0(Auto Diffie-Hellman)
- Policy ID: 0
- TLS Secure Cipher Suite Switch: OFF(OFF)

Buttons for "Assist", "Exec", "Save Result", "Download Report", "Auto Scroll", and "Clear All (0%)".

Обновление софта:

Проверяем залитую версию софта командой LST SOFTWARE, если отличается от BTS3900\_5900 V100R016C10SPC130 – обновляем, если ок – переходим к заливке конфига.

При правильно настроенном FTP сервере, **FTP Server IP** это локальный IP компьютера 192.168.0.\* (тот что прописали в свойствах IPv4 сетевой карты для подключения к BTS)  
**User Name** – имя пользователя с созданного для FTP, **Password** – пароль пользователя с созданного для FTP

В Software Version пишем полное название софта: BTS3900\_5900 V100R016C10SPC130

В маршруте до софта корневую папку FTP не учитываем, т.е если полный маршрут e:\ftpserver\BTS3900\_5900 V100R016C10SPC130\, в Directory Name прописываем BTS3900\_5900 V100R016C10SPC130\

Пример команды(пропущен пароль, не забываем вводить):

DLD SOFTWARE: MODE=IPV4, IP="192.168.0.20", USR="Rus", DIR="BTS3900\_5900 V100R016C10SPC130\", SWT=SOFTWARE, SV="BTS3900\_5900 V100R016C10SPC130", ATL=GBTS&eNodeB;

Если БС 2G+LTE то софт заливаем для GBTS и eNodeB (вкладка Application Type List)

The screenshot displays the web interface of a BTS5900A device. The main content area shows the output of the 'DLD SOFTWARE' command, indicating a successful download of software for the specified device and application type. The command history and configuration form are visible at the bottom of the interface.

**Command Output:**

```
Session ID = 65563
Info = Speed: NA, Remaining: NA, State: Data Integrity Check
--- END
+++ 0      2021-03-09 15:38:44
O&M #321
%MDL SOFTWARE: MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="*****", DIR="BTS3900_5900 V100R016C10SPC130\", SWT=SOFTWARE, SV="BTS3900_5900 V100R016C10SPC130", ATL=GBTS&eNodeB;%
RETCODE = 0 Progress report, Operation succeeded.
Report Type = Download Software
Status = Success
Session ID = 65563
--- END
```

**Command History:** DLD SOFTWARE: MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="\*\*\*\*\*", DIR="BTS3900\_5900 V100R016C10SPC130\", SWT=SOFTWARE, SV="BTS3900\_5900 V100R016C10SPC130", ATL=GBTS&eNodeB;

**Configuration Form:**

- Command (F5): DLD SOFTWARE
- IP Mode: IPV4(IPv4)
- FTP Server IP: 192.168.0.20
- User Name: Rus
- Password: [Empty]
- Directory Name: BTS3900\_5900 V100R016C130\
- Software Type: SOFTWARE(Software)
- Software Version: BTS3900\_5900 V100R016C130
- Guage Option: Y(Guage)
- Download by Config Flag: CFG(Download by config)
- Delay Download Flag: YES(Delay Download)
- Application Type List: GBTS&eNodeB
- Extend Application Type List: [Empty]

## Активация софта

Если БС 2G+LTE то софт активируем для GBTS и eNodeB (вкладка Application Type List)

ACT SOFTWARE: OT=NE, SWT=SOFTWARE, SV="BTS3900\_5900 V100R016C10SPC130", ATL=GBTS&eNodeB;

The screenshot displays the web interface for a BTS5900A device. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.03.02.09&time=1615274308281`. The page title is "BTS5900A". The user is logged in as "admin" with the status "Connected".

The interface is divided into several sections:

- Navigation Tree:** A sidebar on the left containing a list of MML Commands under "System Management". The "Activate Software (ACT SOFTWARE)" command is highlighted.
- Common Maintenance (Alt+C):** The main content area displays the execution results for the "ACT SOFTWARE" command. The output shows:

```
Session ID = 65564
--- END
+++ 0      2021-03-09 15:43:30
O&M #339
%%ACT SOFTWARE: OT=NE, SWT=SOFTWARE, SV="BTS3900_5900 V100R016C10SPC130", ATL=GBTS&eNodeB;%%
RETICODE = 0 Progress report, Operation succeeded.

Report Type = Activate Software
Status = Progressing
Progress = 17%
Session ID = 65564
--- END
```
- Command History:** A section at the bottom with a dropdown menu and navigation buttons.
- Command (F5):** A text input field with "Assist" and "Exec" buttons, and a checkbox for "Use Proxy MML".

At the bottom right of the interface, the system language is set to "EN" and the time is "10:43".

После активации софта LMT будет урезанный!

Активация нормального LMT (здесь, выше и далее указаны параметры моего сервера, меняем данные на свой) – вводим команду SPL SOFTWARE -> кнопка Assist -> заполняем поля (DIR – 'папка где расположен софт, аналогично обновлению):

SPL SOFTWARE: MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="\*\*\*\*\*", DIR="BTS3900\_5900 V100R016C10SPC130\", SDL=YES;

Перезапускаем LMT.

The screenshot displays the LMT web interface for a BTS5900A device. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?M2020.07.03.13&time=1615276727326`. The page title is "BTS5900A". The user is logged in as "admin" with a status of "Disconnected".

The main content area shows the execution of the "SPL SOFTWARE" command. The output is as follows:

```
Progress = 100%
Session ID = 65539
--- END
+++ 0 2021-03-09 16:03:43
Oid #80
%%SPL SOFTWARE: MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="*****", DIR="BTS3900_5900 V100R016C10SPC130\", SDL=YES%%
RETCODE = 0 Progress report, Operation succeeded.

Report Type = Supply Software
Status = Success
Session ID = 65539
--- END
```

The command history shows the command: `SPL SOFTWARE: MODE=IPV4, IP="192.168.0.20", USR="`. The command (F5) field contains `SPL SOFTWARE`. There are "Assist" and "Exec" buttons next to the command field.

## Загрузка файла конфигурации

DLD CFGFILE: MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="\*\*\*\*\*", DIR="BTS\_77\_17351\_DLN\", FN="CFGDATA", ENCRYPTMODE=UNENCRYPTED;

File Name забивать полностью, с расширением - CFGDATA.XML

Корневой каталог FTP в Directory Name как и при заливке софта не указываем.

Остальное как на картинке ниже.

The screenshot shows the web interface of a BTS5900A device. The main menu includes MML, Alarm/Event, Batch, Trace, Monitor, Device Maintenance, and Self Test. The left sidebar shows a navigation tree with categories like System Management, Configuration Management, and File Management. The 'File Management' section is expanded, showing options like 'Download Backup Configuration'. The main content area displays the command 'DLD CFGFILE: MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="\*\*\*\*\*", DIR="BTS\_77\_17351\_DLN\", FN="CFGDATA", ENCRYPTMODE=UNENCRYPTED;'. Below this, there is a 'Command History' section and a form for configuring the download. The form includes fields for IP Mode (IPV4), User Name (Rus), Directory Name (BTS\_77\_17351\_DLN), File Name (CFGDATA), File Type (XML), Area Flag (STANDBY), Gauge Option (Y), Encrypted Mode (UNENCRYPTED), and Compress Flag (UNCOMPRESSED). Buttons for 'Assist' and 'Exec' are also present.

Активация файла конфигурации:

ACT CFGFILE: EFT=AFTER\_RESET;

The screenshot displays the web interface for the BTS5900A system. The browser address bar shows the URL: `https://192.168.0.49/platform/frmwork/view/index.html?2020.07.03.13&time=1615277129827`. The page title is "BTS5900A". The navigation menu includes "MML", "Alarm/Event", "Batch", "Trace", "Monitor", "Device Maintenance", and "Self Test". The user is logged in as "admin" with the status "Connected".

The main content area is divided into several sections:

- Navigation Tree:** A sidebar menu with categories like "MML Commands", "System Management", "Version Management", "Time Management", "Configuration Management", "License Management", "Application Management", and "File Management".
- Common Maintenance (Alt+C):** A section showing the execution details of the "ACT CFGFILE" command. It includes fields for "Status" (Start), "Session ID" (65541), and "Report Type" (Activate). The status is "Success".
- Command History:** A text area showing the command "ACT CFGFILE: EFT=AFTER\_RESET;".
- Command (F5):** A field containing the command "ACT CFGFILE".
- Mode:** A dropdown menu set to "XML(XML Mode)".
- Effect Type:** A dropdown menu set to "AFTER\_RESET(After Resc)".
- Product Type:** A dropdown menu.

At the bottom of the interface, there are buttons for "Save Result", "Download Report", "Auto Scroll", and "Clear All (F6)". The system time is displayed as "2021-3-9 16:14:25".

Перезапуск БС после активации файла:

RST BTSNODE: FOCRST=YES;

The screenshot displays the web interface for a BTS5900A device. The browser address bar shows the URL: `https://192.168.0.49/platform/frmwork/view/index.html?2020.07.03.13&time=1615277129827`. The page title is "BTS5900A". The navigation menu includes "MML", "Alarm/Event", "Batch", "Trace", "Monitor", "Device Maintenance", and "Self Test". The "MML" tab is active, and the "Common Maintenance (Alt+C)" sub-tab is selected. The left sidebar shows a navigation tree with "Reset Base Station(RST BTS)" highlighted. The main content area displays the following text:

```
RETCODE = 0 Progress report, Operation succeeded.  
Report Type = Activate  
Status = Success  
Session ID = 85541  
--- END  
+++ 0 2021-03-09 16:19:00  
O&M #96  
%RST BTSNODE: FOCRST=YES;%  
RETCODE = 0 Operation succeeded.  
--- END
```

Below the text, there are buttons for "Save Result", "Download Report", "Auto Scroll", and "Clear All (F6)". The "Command History" section shows the command: `RST BTSNODE: FOCRST=YES;`. The "Command (F5)" field contains `RST BTSNODE`, and the "Forced Reset Flag" is set to `YES(YES)`. The bottom status bar shows "EN" and the time "11:19".



## Заливка лицензии

INS LICENSE: DIR="1\", FN="IoTDBS5900LTE\_V100R016\_20210217VKTH6L.xml", FLG=NO, MODE=IPV4, IP="192.168.0.20", USR="Rus", PREFLG=NO;

Корневой каталог FTP в Directory Name как и при заливке софта не указываем.

Затем активируем INS LICENSE и полное название файла лицензии с расширением.

The screenshot displays the web interface of a BTS5900-GL device. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615282096354`. The page title is "BTS5900-GL".

The interface includes a navigation menu on the left with categories like "MML Commands", "System Management", "Configuration Management", and "License Management". The "License Management" section is expanded, showing options such as "Install License(INS LICENSE)".

The main content area shows the execution of the "INS LICENSE" command. The command history displays the full command: `INS LICENSE: DIR="1\", FN="IoTDBS5900LTE_V100R016_20210217VKTH6L.xml", FLG=NO, MODE=IPV4, IP="192.168.0.20", USR="Rus", PREFLG=NO;`. The command is currently set to "Assist" mode.

The configuration fields for the command are as follows:

- Directory Name: 1\
- File Name: IoTDBS5900LTE\_V100R016\_
- Force Flag: NO(No)
- IP Mode: IPV4(IPV4)
- FTP Server IP: 192.168.0.20
- User Name: Rus
- Password: (empty)
- Function Type: AUTO(AUTO)
- Preload Flag: NO(No)

The execution results show the following output:

```
Report Type = Install License
Status = Progressing
Progress = 0%
Session ID = 65556
--- END
+++ BTS_77_17351_DLN      2021-03-09 12:47:54
O&M #300
K&I&S LICENSE: DIR="1\", FN="IoTDBS5900LTE_V100R016_20210217VKTH6L.xml", FLG=NO, MODE=IPV4, IP="192.168.0.20", USR="Rus", PWD="*****", PREFLG=NO;
SETCODE = 0 Progress report, Operation Succeeded.
Report Type = Install License
Status = Progressing
Progress = 100%
Session ID = 65556
```

Активация emergency (если не выданы лицензии или лицензии не заливаются):

SET LICENSECTRL: FUNCTIONTYPE=GBTS;

SET LICENSECTRL: FUNCTIONTYPE=eNodeB;

The screenshot displays the web interface for the BTS5900-GL. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615278133002`. The page title is "BTS5900-GL". The navigation menu includes options like "MML", "Alarm/Event", "Batch", "Trace", "Monitor", "Device Maintenance", and "Self Test". The main content area shows the "Display OM Channel State" page with the following details:

- Standby Status = Master
- VRF Index = 0
- Bearer Type = IPV4
- Local IP = 11.128.88.6
- Local Mask = 255.255.255.252
- Peer IP = 11.127.3.1
- Peer Mask = 255.255.255.224
- Binding Route = No
- Binding Secondary Route = No
- Check Type = NONE
- OM Channel Status = Abnormal
- Used State = In Use

The command history section at the bottom shows the following commands:

```
Command (F5): DSP OMCH;  
SET LICENSECTRL: FUNCTIONTYPE=eNodeB;  
SET LICENSECTRL: FUNCTIONTYPE=GBTS;  
DSP VSWR;  
DSP SECTOR;
```

# Активация и настройка RET

- Моторы можно настроить только после подачи канала управления, при его отсутствии RRU через 3-5 минут уходят в режим Standby, по команде DSP RETPORT выдает что RRU недоступны.

Проверка портов:

DSP RETPORT;

The screenshot shows the web interface of a BTS5900-GL device. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615383627178`. The page title is "BTS5900-GL". The user is logged in as "Local User: admin" with status "Connected" and time "2021-3-10 16:43:08".

The interface has a navigation menu on the left with "MML Commands" expanded. The "Display RET Port(DSP RETPORT)" command is selected. The main content area shows the command execution results:

```
+++ BTS_77_21911_DLN 2021-03-10 16:41:13
O&M #190
WWDSP RETPORT:%%
RETCODE = 0 Operation succeeded.

Display RET Port Dynamic Information

Cabinet No. Subrack No. Slot No. Port No. ALD Actual Power Switch ALD Current Value(mA)
0 180 0 RET_PORT ON 36
0 181 0 RET_PORT ON 36
0 182 0 RET_PORT ON 37
(Number of results = 3)

--- END
```

At the bottom of the interface, there is a "Command History" section with a dropdown menu and navigation buttons, and a "Command (F5):" input field with "Assist" and "Exec" buttons. The status bar at the bottom right shows "ENG 16:43".

Если ALD Actual Power Switch в значении OFF:

MOD RETPORT: CN=0, SRN=180, SN=0, PWRSWITCH=ON, THRESHOLDTYPE=RET\_ONLY\_MULTICORE;

Команду вводим для каждого RRU, меняется только значения Subrack No. (180, 181, 182 и т.д в зависимости от количества RRU)

The screenshot displays the web interface for the BTS5900-GL system. The main content area shows the execution of the command `MOD RETPORT: CN=0, SRN=180, SN=0, PWRSWITCH=ON, THRESHOLDTYPE=RET_ONLY_MULTICORE;`. The command history section shows the command was executed successfully. The configuration form below the command history includes the following fields:

- Cabinet No.: 0
- Subrack No.: 180
- Slot No.: 0
- Port No.: RET\_PORT(RET\_PORT)
- ALD Power Switch: ON(ON)
- Current Alarm Threshold Type: RET\_ONLY\_MULTICORE

Cabinet No.	Subrack No.	Slot No.	Port No.	ALD Actual Power Switch	ALD Current Value(mA)
0	180	0	RET_PORT	ON	36
0	181	0	RET_PORT	ON	36
0	182	0	RET_PORT	ON	37

Поиск моторов:

Команда SCN ALD::;

The screenshot displays the web interface for the BTS5900-GL system. The browser address bar shows the URL: `https://192.168.0.49/platform/frmwork/view/index.html?2020.07.03.13&time=1615383627178`. The page title is "BTS5900-GL".

The interface includes a navigation menu with the following items: MML, Alarm/Event, Batch, Trace, Monitor, Device Maintenance, and Self Test. The user is logged in as "Local User: admin" with a status of "Connected" and a time of "2021-3-10 16:45:15".

The main workspace is titled "MML" and contains a "Navigation Tree" on the left. The tree is expanded to show "MML Commands" > "Equipment Management" > "Base Station Maintenance" > "Board Maintenance" > "ALD Maintenance". The "Scan ALD(SCN ALD)" command is selected.

The main content area displays the execution results for the "Common Maintenance (Alt+C)" command. The output is as follows:

```
Session ID = 65550
---  END
+++  BTS_77_21911_DLN      2021-03-10 16:45:05
O&M  #207
W&SCN ALD:;%
RETCODE = 0  Progress report, Operation succeeded.

Report Type = Scan ALD
Status = Progressing
Progress = 1%
Session ID = 65550
---  END
```

At the bottom of the workspace, there is a "Command History" section with a search box and navigation arrows. Below it is a "Command (F5):" input field with "Assist" and "Exec" buttons, and a checkbox for "Use Proxy MML".

The Windows taskbar at the bottom shows the system tray with the date and time "ENG 16:45".

Common Maintenance (Alt+C)

Operation Records (Alt+R)

Help (Alt+N)

Control Port Subrack No.	Control Port Slot No.	Control Port No.	Result	ALD Device Type	Vendor Code	Serial No.	Protocol Version	Configure Status
180	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160662T--Y2	AISG2.0	UNCONFIGURED
180	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160662T--Y1	AISG2.0	UNCONFIGURED
181	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160544T--Y2	AISG2.0	UNCONFIGURED
181	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160544T--Y1	AISG2.0	UNCONFIGURED
182	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160537T--Y2	AISG2.0	UNCONFIGURED
182	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160537T--Y1	AISG2.0	UNCONFIGURED

 Save Result

Download R

Command History:



Command (F5):

Assist

Exec

 Use Proxy MML

## Привязка моторов:

ADD RET: DEVICENO=180, DEVICENAME="CELL\_77\_21911\_1\_L18+CELL\_77\_21911\_1\_D", CTRLCN=0, CTRLSRN=180, CTRLSN=0, RETTYPE=SINGLE\_RET, SCENARIO=DAISY\_CHAIN, VENDORCODE="MT", SERIALNO="AU021K160662T--Y1";

Если на антенне 2 встроенных мотора:

### сектор1

Мотор №1: Device No – 180, Control Port Subrack No – 180, Device Name CELL\_77\_21911\_1\_L18+CELL\_77\_21911\_1\_D

Мотор №2: Device No – 380, Control Port Subrack No – 180, Device Name CELL\_77\_21911\_1\_L18\_2+CELL\_77\_21911\_1\_D\_2

### сектор2

Мотор №1: Device No – 181, Control Port Subrack No – 181, Device Name CELL\_77\_21911\_2\_L18+CELL\_77\_21911\_2\_D

Мотор №2: Device No – 381, Control Port Subrack No – 181, Device Name CELL\_77\_21911\_2\_L18\_2+CELL\_77\_21911\_2\_D\_2

### сектор3

Мотор №1: Device No – 182, Control Port Subrack No – 182, Device Name CELL\_77\_21911\_3\_L18+CELL\_77\_21911\_3\_D

Мотор №2: Device No – 382, Control Port Subrack No – 182, Device Name CELL\_77\_21911\_3\_L18\_2+CELL\_77\_21911\_3\_D\_2

Vendor code – из инфы по SCN ALD

Serial No. - из инфы по SCN ALD, ВВОДИМ ПОЛНОСТЬЮ, СО ВСЕМИ ЗНАКАМИ

Остальное как на картинке ниже.

The screenshot shows the 'ADD RET' configuration form in the BTS5900-GL web interface. The form fields are as follows:

- Device No: 380
- Device Name: 8\_2+CELL\_77\_21911\_1\_D\_2
- Control Port Cabinet No: 0
- Control Port Subrack No: 180
- Control Port Slot No: 0
- RET Type: SINGLE\_RET(SINGLE\_RE)
- Polar Type: DUAL(DUAL)
- Antenna Scenario: DAISY\_CHAIN(DAISY\_C)
- Vendor Code: MT
- Serial No.: AU021K160662T--Y2
- Antenna Form: NORMAL\_ANTENNA(Norr)

Below the form, the 'Command History' shows the command: ADD RET. The 'Operation Records' table displays the following data:

Device No	Device Name	Ctrlcn	Ctrlsrn	CtrlSn	RetType	Scenario	VendorCode	SerialNo	Status	Count		
181	CELL_77_21911_1_L18+CELL_77_21911_1_D	0	180	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160662T--Y1	AISG2.0	UNCONFIGURED	1
182	CELL_77_21911_1_L18+CELL_77_21911_1_D	0	180	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160662T--Y2	AISG2.0	UNCONFIGURED	1
182	CELL_77_21911_1_L18+CELL_77_21911_1_D	0	180	0	RET	SUCCESS	SINGLE_RET	MT	AU021K160662T--Y1	AISG2.0	UNCONFIGURED	1



Калибровка моторов:

CLB RET: OPMODE=SITE;

На МОВІ может выдать ошибку, ждем минут 5-10 и запускаем заново.

The screenshot displays the web interface for the BTS5900-GL system. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615383627178`. The page title is "BTS5900-GL". The navigation menu includes "MML", "Alarm/Event", "Batch", "Trace", "Monitor", "Device Maintenance", and "Self Test". The user is logged in as "admin" with a status of "Connected" and a time of "2021-3-10 17:05:00".

The main content area shows the "Common Maintenance (Alt+C)" tab. The "Navigation Tree" on the left lists various commands, with "Calibrate RET (CLB RET)" selected. The main display area shows the following output:

```
+++ BTS_77_21911_DLN 2021-03-10 17:02:21
O&M #294
%%CLB RET: OPMODE=SITE,%%
RETCODE = 0 Progress report, Operation succeeded.

Report Type = Calibrate RET
Status = Success
Session ID = 65565

Result
-----
Device No. Subunit No. Result
180 1 SUCCESS
181 1 SUCCESS
182 1 SUCCESS
```

Below the output, there are buttons for "Save Result", "Download Report", "Auto Scroll" (checked), and "Clear All (F6)". The command history shows the command "CLB RET" entered. The "Operate Mode" is set to "SITE(Operating by Site)".

Установка углов:

MOD RETTILT: RETCLASS=RET, OPMODE=DEVICENO, DEVICENO=380, TILT=40;

команду вводим для каждого мотора, меняется Device No. (180, 181, 182, 380, 381, 382), Tilt=эл.угол\*10 (если в задании угол=4 то вводим значения=40)

The screenshot displays the web interface for the BTS5900-GL system. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615383627178`. The interface includes a navigation menu on the left with categories like MML Commands, System Management, and Equipment Management. The main content area shows the execution results of the MML command `MOD RETTILT: RETCLASS=RET, OPMODE=DEVICENO, DEVICENO=180, TILT=40, NW`. The results indicate a successful operation for device 180. Below the results, the command history shows the command `MOD RETTILT` with parameters: RET Class: RET (Remote Electrical TI), Operate Mode: DEVICENO (Operating b), Device No.: 380, and Tilt (0.1degree): 40.

Navigation Tree:

- MML Commands
  - System Management
  - Equipment Management
    - Base Station Maintenance
    - Board Maintenance
    - RRU Maintenance
    - ALD Maintenance
      - Modify Antenna Port(MOD A
      - List Antenna Port(LST ANTEI
      - Display Antenna Port(DSP AN
      - Confirm TMA Connection(CFI
      - Modify RET Port(MOD RETP
      - List RET Port(LST RETPORT
      - Display RET Port(DSP RETPC
      - Scan ALD(SCN ALD)
      - Reset ALD(RST ALD)
      - Reset ALD Power Switch(RST
      - Download ALD Software(DLD
      - Stop Scanning ALD(STP ALD:
      - Display ALD Version(DSP ALI
      - Add RET(ADD RET)
      - Remove RET(RMV RET)
      - Modify RET(MOD RET)
      - List RET(LST RET)
      - Display RET(DSP RET)
      - Calibrate RET(CLB RET)
      - Download RET Configuration
      - Modify RET Subunit(MOD RE
      - List RET Subunit(LST RETSU
      - Display RET Subunit(DSP RE
      - Modify RET Tilt(MOD RET TI
      - Modify RET Device Data(MO
      - List RET Device Data(LST RE
      - Display RET Device Data(DSI
      - Modify VRET Configuration(M
      - List VRET Configuration(LST
      - Modify VRET Subunit Configu
      - List VRET Subunit Configurati
      - Display VRET Subunit Dynarr
      - Add TMA(ADD TMA)
      - Remove TMA(RMV TMA)
      - Modify TMA(MOD TMA)

Проверка моторов:

DSP RETSUBUNIT;

The screenshot shows the web interface for a BTS5900-GL base station. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615383627178`. The page title is "BTS5900-GL". The user is logged in as "admin" and the time is "2021-3-10 17:09:41".

The main content area displays the results of the command "Display RET Subunit Dynamic Information". The command text is: `OMM #321  
%WDSP RETSUBUNIT:;%  
RETCODE = 0 Operation succeeded.`

The results are shown in a table with the following columns: Device No., Device Name, Subunit No., Subunit Name, Online Status, Actual Tilt(0.1degree), Actual Sector ID, RET Configuration Data File Name, and Configuration Data File Name.

Device No.	Device Name	Subunit No.	Subunit Name	Online Status	Actual Tilt(0.1degree)	Actual Sector ID	RET Configuration Data File Name	Configuration Data File Name
180	CELL_77_21911_1_L18+CELL_77_21911_1_D	1	NULL	AVAILABLE	40	NULL	NULL	NULL
181	CELL_77_21911_2_L18+CELL_77_21911_2_D	1	NULL	AVAILABLE	40	NULL	NULL	NULL
182	CELL_77_21911_3_L18+CELL_77_21911_3_D	1	NULL	AVAILABLE	40	NULL	NULL	NULL
380	CELL_77_21911_1_L18_2+CELL_77_21911_1_D_2	1	NULL	AVAILABLE	40	NULL	NULL	NULL
381	CELL_77_21911_2_L18_2+CELL_77_21911_2_D_2	1	NULL	AVAILABLE	40	NULL	NULL	NULL
382	CELL_77_21911_3_L18_2+CELL_77_21911_3_D_2	1	NULL	AVAILABLE	40	NULL	NULL	NULL

Below the table, it says "(Number of results = 6)".

The interface also includes a navigation tree on the left, a command history section, and a command input field at the bottom.

# Вывод БС в эфир:

- 2G активируется с контроллера, обычно сразу выходит в эфир, но лучше проверить.

# Проверка KCB

STR VSWRTEST;

The screenshot displays the web interface for the BTS5900-GL system. The browser address bar shows the URL: `https://192.168.0.49/platform/frmwork/view/index.html?2020.07.03.13&time=1615386300772`. The interface includes a navigation menu with options like MML, Alarm/Event, Batch, Trace, Monitor, Device Maintenance, and Self Test. The main content area shows the 'VSWR Query Result' table, which contains the following data:

BS Name	Sector No.	Cabinet No.	Subrack No.	Slot No.	TX Channel No.	VSWR(0.01)	Test Result
BTS_77_21911_DLN	180	0	180	0	0	110	Successful
BTS_77_21911_DLN	180	0	180	0	1	114	Successful
BTS_77_21911_DLN	181	0	181	0	0	102	Successful
BTS_77_21911_DLN	181	0	181	0	1	109	Successful
BTS_77_21911_DLN	182	0	182	0	0	105	Successful
BTS_77_21911_DLN	182	0	182	0	1	106	Successful

Below the table, there is a section for 'STR VSWRTEST;' with a 'Command History' field containing the command. The 'Command (F5)' field also contains 'STR VSWRTEST'. There are input fields for 'Cabinet No.', 'Test Mode', and 'Txbranch Power Relative Value(0.1dB)'. The interface also shows a 'Navigation Tree' on the left with various maintenance and configuration options.

Проверка секторов:

LST CELL;

The screenshot shows the BTS5900-GL web interface. The browser address bar displays the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615386300772`. The page title is "BTS5900-GL". The user is logged in as "admin" with the status "Connected".

The main content area displays the results of the "LST CELL;" command. The command history shows "LST CELL;" and "LST CELL". The command execution options are "Assist" and "Exec".

The results table shows the following data:

Local Cell ID	Cell Name	Csg indicator	Uplink cyclic prefix length	Downlink cyclic prefix length	NE-IoT Cell Flag	Coverage Level Type	Freq
11	CELL_77_21911_1_L18	False	Normal	Normal	FALSE	NULL	3
12	CELL_77_21911_2_L18	False	Normal	Normal	FALSE	NULL	3
13	CELL_77_21911_3_L18	False	Normal	Normal	FALSE	NULL	3
211	CELL_77_21911_1_N118	False	Normal	Normal	TRUE	COVERAGE_LEVEL_0:0n&COVERAGE_LEVEL_1:0n&COVERAGE_LEVEL_2:0n	NULL
212	CELL_77_21911_2_N118	False	Normal	Normal	TRUE	COVERAGE_LEVEL_0:0n&COVERAGE_LEVEL_1:0n&COVERAGE_LEVEL_2:0n	NULL
213	CELL_77_21911_3_N118	False	Normal	Normal	TRUE	COVERAGE_LEVEL_0:0n&COVERAGE_LEVEL_1:0n&COVERAGE_LEVEL_2:0n	NULL

The interface also includes a navigation tree on the left with categories like "Start AAU Site Test", "Add Shared External RRU", "Alarm Management", and "Cell Configuration".

Запуск секторов:

ACT CELL: LocalCellId=11;

Команда вводится для каждого сектора, LocalCellId узнаем по команде LST CELL (выше)

The screenshot displays the web interface for the BTS5900-GL system. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615386300772`. The page title is "BTS5900-GL". The user is logged in as "admin" and the system time is "2021-3-10 17:32:34".

The interface includes a navigation tree on the left with categories like "Alarm Management", "Transmission Management", and "Cell Management". The "Cell Management" section is expanded to "Cell Configuration" and "Cell Basic Configuration", with "Activate Cell(ACT CELL)" selected.

The main content area shows the execution of the "ACT CELL" command. The command history displays: `ACT CELL: LocalCellId=11;`. The command (F5) is `ACT CELL`. The "Local Cell ID" field is set to `11`. The execution result shows a successful operation: `RETCODE = 0 Operation succeeded.`

Cell ID	Cell Name	Cell Type	Cell Status	Cell Mode	Cell Power	Cell Coverage
211	CELL_77_21911_1_NI18	False	Normal	Normal	TRUE	COVERAGE_LEVEL_0:On&COVERAGE_LEVEL_1:On&COVERAGE_LEVEL_2:On
212	CELL_77_21911_2_NI18	False	Normal	Normal	TRUE	COVERAGE_LEVEL_0:On&COVERAGE_LEVEL_1:On&COVERAGE_LEVEL_2:On
213	CELL_77_21911_3_NI18	False	Normal	Normal	TRUE	COVERAGE_LEVEL_0:On&COVERAGE_LEVEL_1:On&COVERAGE_LEVEL_2:On

Серийные номера оборудования.



Серийные номера RRU:

команда DSP RRUCHAINPHYTOPO;;

The screenshot shows the web interface for a BTS5900-GL device. The browser address bar shows the URL: `https://192.168.0.49/platform/frmwork/view/index.html?2020.07.03.13&time=1615287616574`. The page title is "BTS5900-GL".

The interface includes a navigation tree on the left with categories like File Management, Configuration Rights Management, Log Management, Security Management, and Equipment Management. The "Equipment Management" section is expanded to show "RRU Maintenance".

The main content area displays the results of the command `DSP RRUCHAINPHYTOPO;;`. It shows a table of device dynamic information with columns: Cabinet No., Subrack No., Slot No., Port No., Sub Port No., Topo Position, Trunk Level, Standard Capability, Physical device serial No., Uplink Port No., and Uplink Support No.

Cabinet No.	Subrack No.	Slot No.	Port No.	Sub Port No.	Topo Position	Trunk Level	Standard Capability	Physical device serial No.	Uplink Port No.	Uplink Support No.
0	0	4	0	0	TRUNK	0	GLM_NF	2102311FRDDULB001683	0	NULL
0	0	4	1	0	TRUNK	0	L_NF	2102311FFF10L9000419	0	NULL

Below the table, there is a section for "Command History" and "Command (F5): DSP RRUCHAINPHYTOPO". It includes input fields for "Cabinet No." and "Subrack No.", and a dropdown for "Extended Information Output Switch" set to "OFF(OFF)". A tooltip for the "Subrack No." field shows: "Parameter: SRN(Subrack No.)", "Parameter Type: Range", "Range: (0~1), (60~254)".

Серийный номер VBU:

команда LST ESN;

The screenshot displays the web interface for the BTS5900-GL system. The browser address bar shows the URL: `https://192.168.0.49/platform/framework/view/index.html?2020.07.03.13&time=1615386300772`. The page title is "BTS5900-GL". The navigation menu includes options like "MML", "Alarm/Event", "Batch", "Trace", "Monitor", "Device Maintenance", and "Self Test". The user is logged in as "admin" and the system time is "2021-3-10 17:43:25".

The main content area shows the execution of the "Query ESN(LST ESN)" command. The output is as follows:

```
---  END
+++  BTS_77_21911_DLN      2021-03-10 17:43:21
O&M  #189
%%LST ESN:;%
RETCODE = 0  Operation succeeded.

Query ESN
-----
ESN = 2102312JXC10LA000363
( Number of results = 1)

---  END
```

Below the output, there are controls for "Save Result", "Download Report", "Auto Scroll", and "Clear All (F6)". At the bottom, there are input fields for "Command History:" and "Command (F5):" with "Assist" and "Exec" buttons, and a checkbox for "Use Proxy MML". The Windows taskbar at the bottom shows the system time as "ENG 17:43".