

fwconsole commands (13+)

"fwconsole" is the Linux command that controls FreePBX 13+ from the Linux command prompt.

To access the command prompt, log-in to the machine where you installed FreePBX/Asterisk using your "root" username and password. You can do so by accessing the keyboard of the machine where you installed FreePBX, or remotely using an SSH client such as Putty.

Then type one of the following "fwconsole" commands below

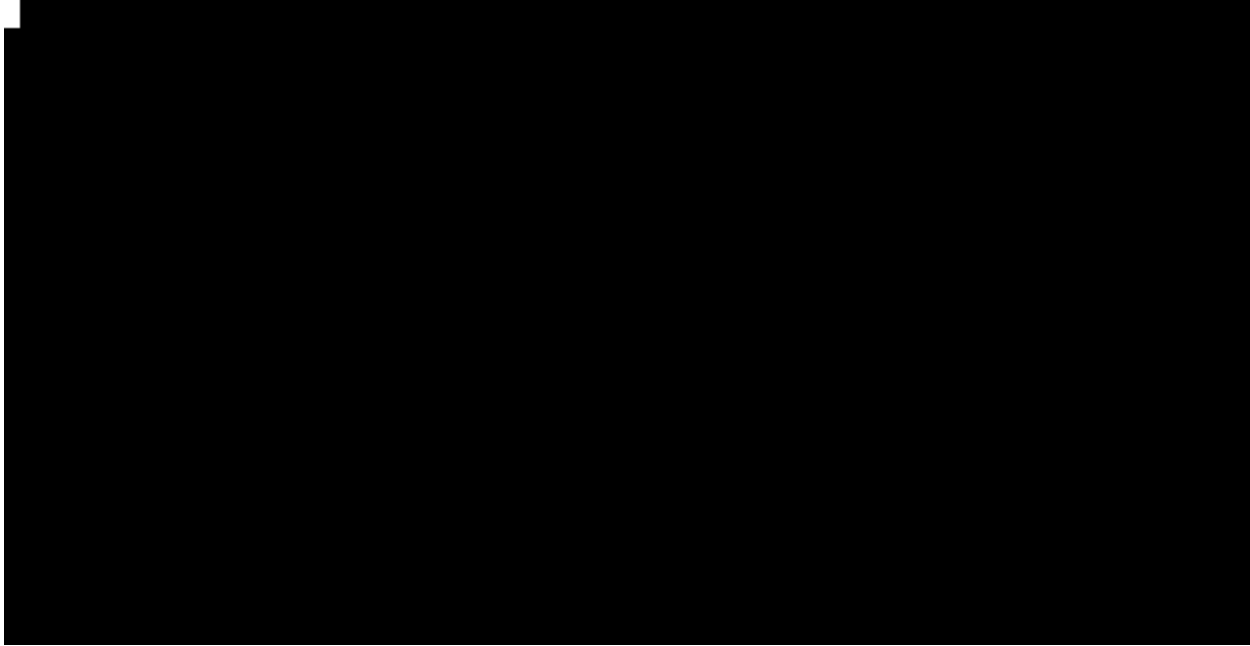
All commands can be suffixed with --help to get more information

Command List

Command Title	Command	Alias(es)	Description
Bulk Import	bulkimport	bi	This command is used to import extensions and dids
Certificates	certificates		Certificate Management
Chown	chown		Change ownership of files
Context	context	cx	Shows the specified context from the dialplan
Doctrine	doctrine		Specific database documentation (for Development)
Debug	dbug	debug	Stream log files for debugging
EPM	epm	endpoint	Endpoint Manager
External IP	extip	externalip	Get External IP
Firewall	firewall		Firewall functions
help	help		Displays help for a command
list	list		Lists commands
Localization	localization		Localization Utilities
Database	mysql		Runs MySQL Client using freepbx credentials
Module Administration	moduleadmin	ma	Module Administration
Notification	notification		Manage notifications
Module System Manager	modulesystemmanager	msm	View and change Update /Notification Manager Settings
Qxact Reports	qxact		
Reload	reload	r	Reload Configs and Asterisk
Paging Pro	pagingpro		Paging Pro Interface
Phone Apps			Debug Phone App Problems (For XML Style BLFs)
Process Management	pm2		Process Management
Setting	setting	set	
Sound Languages	sound		Sound Languages Management
System Admin	sysadmin	sa	System Admin Functions
System Update	systemupdate	sysup,sys	
Trunks	trunks		Enable and disable trunks from the command line
Unlock	unlock	un	Unlock Session
User Manager	userman		User Manager
Utilities	util		Common Utilities

Validate	validate		Validate the PBX against hacks
vqplus	vqplus		VQPlus functions
zulu	zulu		Zulu functions

Stop/Start/Restart



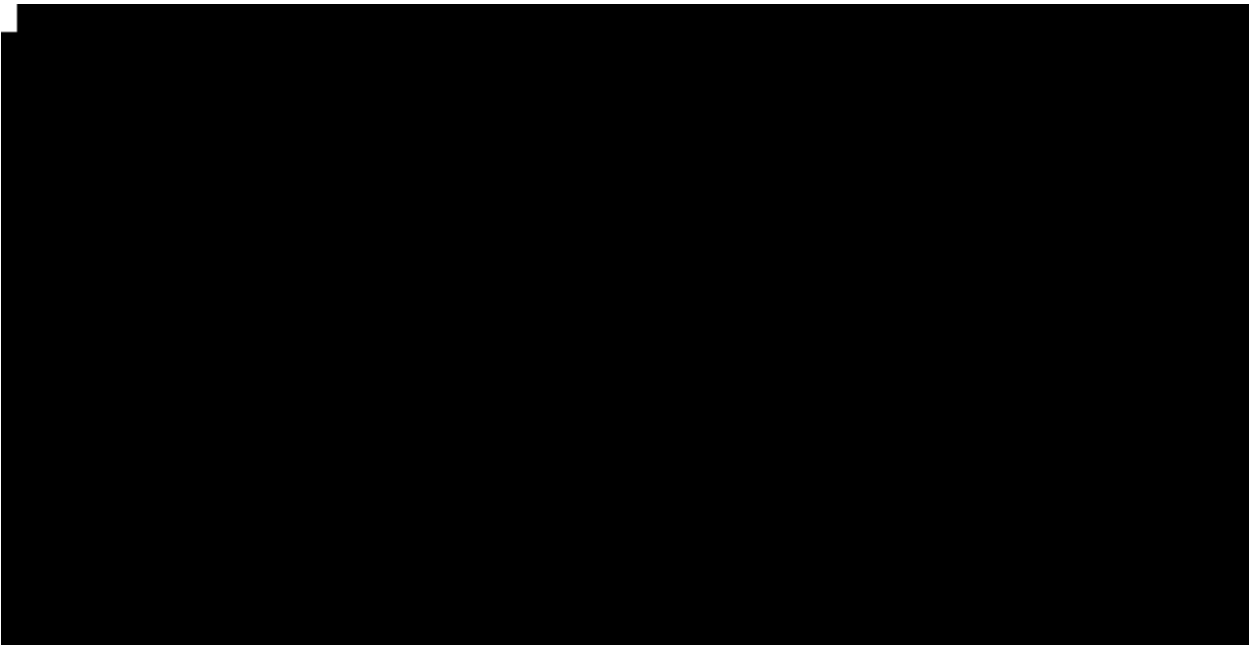
This is how FreePBX starts asterisk and any other processes it need. You should always start and restart asterisk with the amportal command not the service asterisk or /etc/init.d/asterisk commands

fwconsole stop

fwconsole start

fwconsole restart

Chown



fwconsole chown - This will change ownership of all files and directories that FreePBX needs to be owned by the apache user.

- See verbose details about chown operations (ownership and permissions per file)

```
[root@freepbxdev1 userman]# fwconsole chown --verbose
Setting /var/lib/asterisk/ucp/out.log owner to: asterisk:asterisk,
with permissions of: 644
Setting /var/lib/asterisk/ucp/err.log owner to: asterisk:asterisk,
with permissions of: 644
Setting /var/lib/asterisk/ucp/ucp.log owner to: asterisk:asterisk,
with permissions of: 644
Setting /var/lib/asterisk/ucp/config.json owner to: asterisk:
asterisk, with permissions of: 644
```

- Chown a specific module

```
[root@Andrews15 framework]# fwconsole chown --module asteriskinfo --
verbose
Taking too long? Customize the chown command, See http://wiki.freepbx.
org/display/FOP/FreePBX+Chown+Conf
Setting Permissions...
Setting specific permissions...
Setting /var/www/html/admin/modules/asteriskinfo to permissions of:
755
Setting /var/www/html/admin/modules/asteriskinfo/il8n to permissions
of: 755
Setting /var/www/html/admin/modules/asteriskinfo/il8n/bg_BG to
permissions of: 755
Setting /var/www/html/admin/modules/asteriskinfo/il8n/bg_BG
/LC_MESSAGES to permissions of: 755
Setting /var/www/html/admin/modules/asteriskinfo/il8n/bg_BG
/LC_MESSAGES/asteriskinfo.mo to permissions of: 644
Setting /var/www/html/admin/modules/asteriskinfo/il8n/bg_BG
/LC_MESSAGES/asteriskinfo.po to permissions of: 644
[...]
Finished setting permissions
```

- Chown a specific file/directory

```
[root@localhost ~]# fwconsole chown --verbose --file=/var/www/html
/admin/modules/timeconditions/bin/schedtc.php
Taking too long? Customize the chown command, See http://wiki.freepbx.
org/display/FOP/FreePBX+Chown+Conf
Setting Permissions...
    Collecting Files...Done
Setting /var/www/html/admin/modules/timeconditions/bin/schedtc.php
owner to: asterisk:asterisk, with permissions of: 644
Setting /var/www/html/admin/modules/timeconditions/bin/schedtc.php
owner to: asterisk:asterisk, with permissions of: 755
Finished setting permissions
```

In the example above you will see two permissions set for one file. This is completely normal. The first one is the generic setting and the second one is the setting from the module itself.

Doctrine

This command is used to export out table information to be used in FreePBX table creation for module installations

Two formats are supported. XML and PHP.

The XML should be used in the module.xml file

```
[root@freepbxdev1 framework]# fwconsole doctrine meetme --format=xml
<database>
  <table name="meetme">
    <field name="exten" type="string" length="50"/>
    <field name="options" type="string" length="15" notnull="false"/>
    <field name="userpin" type="string" length="50" notnull="false"/>
    <field name="adminpin" type="string" length="50" notnull="false"/>
    <field name="description" type="string" length="50" notnull="false"/>
    <field name="joinmsg_id" type="integer" notnull="false"/>
    <field name="music" type="string" length="80" notnull="false"/>
    <field name="users" type="smallint" default="0" unsigned="true"
notnull="false"/>
    <field name="language" type="string" length="10"/>
    <key name="PRIMARY" type="unique">
      <column name="exten"/>
    </key>
  </table>
</database>
```

The PHP code should be used inside install.php or the module's class.

```
[root@freepbxdev1 framework]# fwconsole doctrine meetme --format=php
$table = FreePBX::Database()->migrate("meetme");
$cols = array (
  'exten' =>
  array (
    'type' => 'string',
    'length' => '50',
  ),
  'options' =>
  array (
    'type' => 'string',
    'length' => '15',
    'notnull' => false,
  ),
  'userpin' =>
  array (
    'type' => 'string',
    'length' => '50',
    'notnull' => false,
  ),
  'adminpin' =>
  array (
    'type' => 'string',
    'length' => '50',
    'notnull' => false,
  ),
  'description' =>
  array (
    'type' => 'string',
```

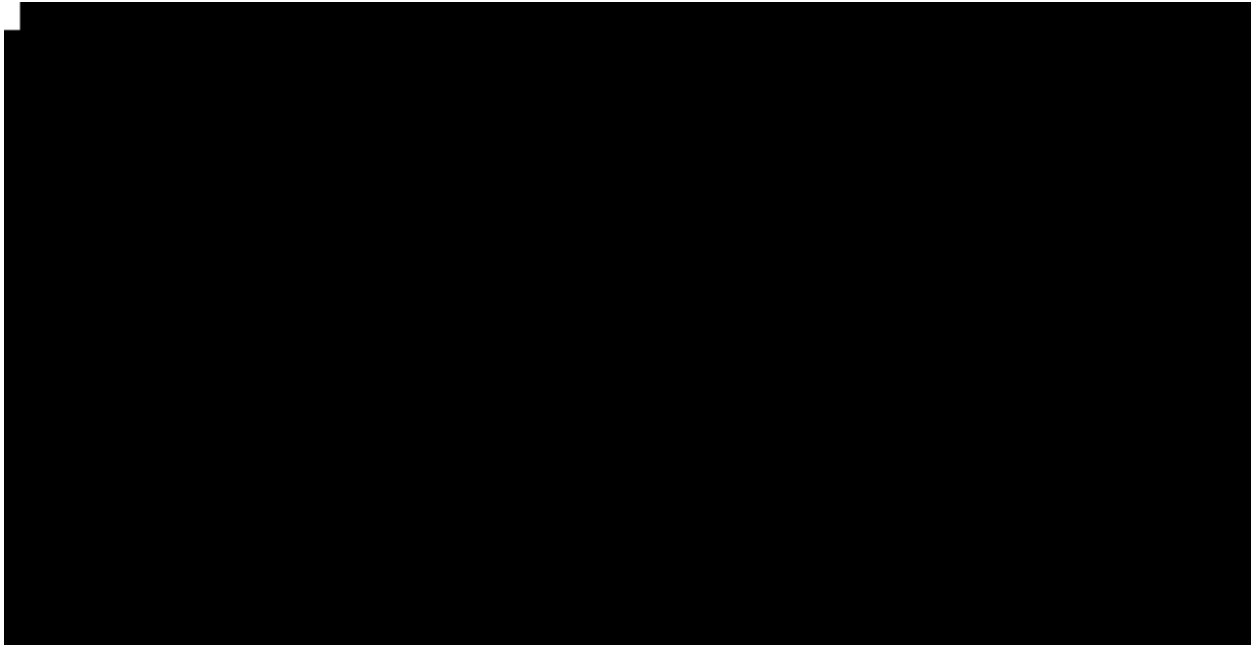
```

        'length' => '50',
        'nonnull' => false,
    ),
    'joinmsg_id' =>
    array (
        'type' => 'integer',
        'nonnull' => false,
    ),
    'music' =>
    array (
        'type' => 'string',
        'length' => '80',
        'nonnull' => false,
    ),
    'users' =>
    array (
        'type' => 'smallint',
        'nonnull' => false,
        'unsigned' => true,
        'default' => '0',
    ),
    'language' =>
    array (
        'type' => 'string',
        'length' => '10',
    ),
);

$indexes = array (
    'PRIMARY' =>
    array (
        'type' => 'unique',
        'cols' =>
        array (
            0 => 'exten',
        ),
    ),
);
$table->modify($cols);
unset($table);

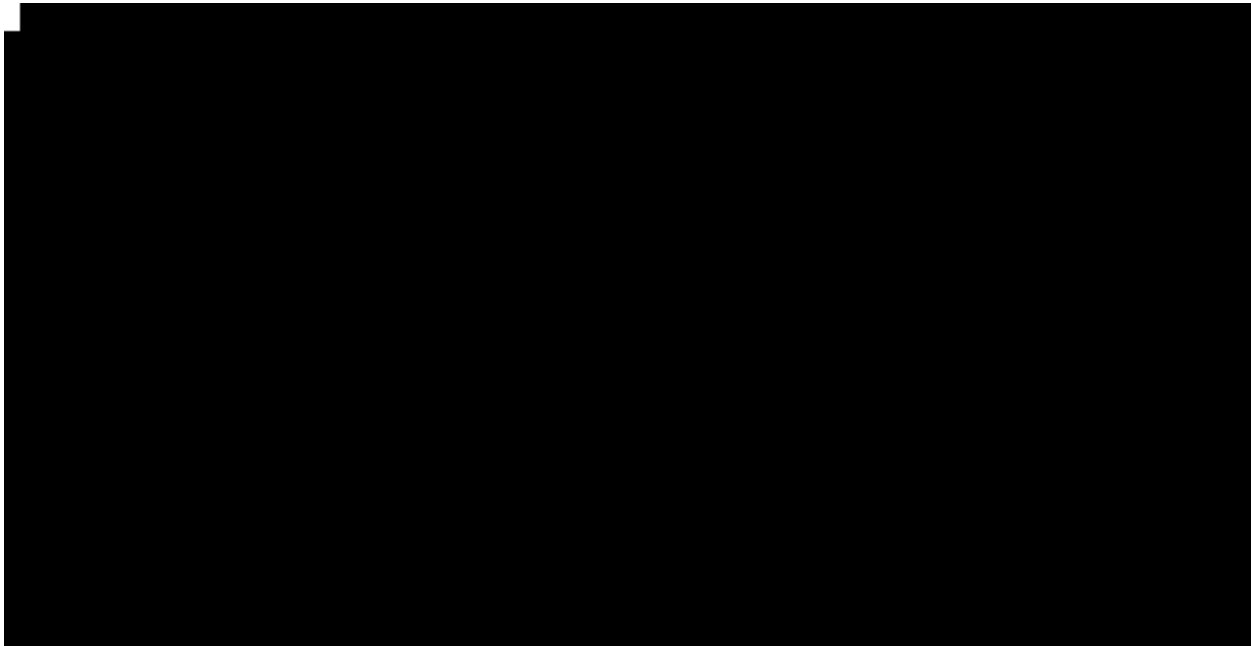
```

Reload



fwconsole reload - This will perform a reload of all the dialplan in Asterisk and all the modules in asterisk. This is the same as pressing the "Apply Changes" button in the GUI of FreePBX

Unlock



fwconsole unlock xxxxxxxxxxxxxxxxx- The fwconsole unlock command will unlock the GUI login of FreePBX to let you into the FreePBX GUI without the username and password. This is handy if you lost or misplaced your FreePBX GUI username or password and need to get into the GUI to change or setup a new user. You need to replace the xxxxxxxx with your PHP session ID. Follow the steps below.

- Bring up the main login page to FreePBX in your browser. Such as <http://192.168.0.2/admin>

- Do a "ctrl a" to highlight the whole page and look to the left center of the screen for some text. This is your unique php session ID. Copy this into your clipboard.



FreePBX Administration



User Control Panel



Operator Panel



Get Support

- Go into the linux CLI and type the following command replacing the session ID below with your own.

```
[root@localhost ~]# fwconsole unlock pptr811v1e32s3q8b79s4n1sp7
Please wait...
session unlocked!
[root@localhost ~]#
```

- Go refresh your browser page and it will log you in this one time automatically for you based on that php session ID. Now you can go add or change the FreePBX admin users.

Userman

This command provides information about User Manager

- Run synchronization for external authentication engines

```
[root@freepbxdev1 userman]# fwconsole userman sync
Starting Sync...
```

- Get verbose details about synchronization status

```
[root@freepbxdev1 userman]# fwconsole userman sync --verbose
Starting Sync...
```

Util

General Utility functions for FreePBX

- Clean up playback cache. This is normally run through a cron job. It removes any cached media (browser playback, moh/recording temp files,) that is over 60 days old.

```
[root@freepbxdev1 paging]# fwconsole util cleanplaybackcache
Starting Cache cleanup
Finished cleaning up cache
```


- Used to check all signatures on the system. Does not return any output

```
[root@freepbxdev1 paging]# fwconsole util signaturecheck
[root@freepbxdev1 paging]#
```

- Runs a repair against the SQL Databases

```
[root@freepbxdev1 paging]# fwconsole util tablefix
Attempting to repair MySQL Tables this may take a while
MySQL Tables Repaired
```

Database

fwconsole m This will connect you to the mysql database as the FreePBX user automatically based on the username and password for MySQL in /etc/freepbx.conf

```
[root@freepbxdev1 faxpro]# fwconsole m
Connecting to the Database...Reading table information for completion of
table and column names
You can turn off this feature to get a quicker startup with -A
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 123880
Server version: 5.1.73-log Source distribution
Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights
reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.
mysql>
```

Module Administration

Command line utility for controlling FreePBX Module installation.

```
[root@ldev2 ~]# fwconsole ma
Module Administration Help:
Usage: fwconsole moduleadmin [-f][--reponame reponame][action][arg1]
[arg2][arg...]
Flags:
-f - FORCE
-R - REPO, accepts reponame as a single argument
--edge - EDGE, forces download from the edge repository
--skipchown          Skip the chown operation
--nopromptdisabled  Don't ask to enable disabled modules
--format            Format can be: json, jsonpretty
```

```
--tag                Download/Upgrade to a specific tag
Module Actions:
checkdepends : Checks dependencies for provided module[s], accepts
argument module[s]
disable : Disables module[s] accepts argument module[s]
download : Download module[s], accepts argument module[s] or URLs
downloadinstall : Download and install module[s], accepts argument module
[s] or URLs
delete : Deleted module[s], accepts argument module[s]
enable : Enable module[s], accepts argument module[s]
install : Installs module[s], accepts argument module[s]
installlocal : Install local module[s], accepts argument module[s]
uninstall : Uninstalls module[s], accepts argument module[s]
upgrade : Upgrade module[s], accepts argument module[s]
All inclusive Module Actions:
installall : Installs all modules, accepts no arguments
enableall : Tries to enable all modules, accepts no arguments
upgradeall : Upgrades all modules, accepts no arguments
Repository Actions:
disablerepo : Disables repo, accepts argument repo[s]
enablerepo : Enables repo, accepts argument repo[s]
list : List all local modules, accepts no arguments
listonline : List online modules, accepts no arguments
showupgrades : Shows a list of modules that may be updated, accepts no
arguments
i18n : Shows translation information for supplied modules, accepts
argument module[s]
refreshsignatures : ReDownloads all modules that have invalid signatures
```

Edge modules:

In Framework 13.0.69 we added the ability to install [edge modules](#). To upgrade to a module in the edge track pass the `--edge` flag

```
fwconsole ma --edge upgrade foomodule
```

- Check Module Dependencies

```
[root@xxxxxxx ~]# fwconsole ma checkdepends core
All dependencies met for module core
```

- Disable a module

```
[root@freepbxdev1 faxpro]# fwconsole ma disable asterisk-cli
Module asterisk-cli successfully disabled
Updating Hooks...Done
```

- Download a Module

```
[root@xxxxxxx ~]# fwconsole ma download core
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
```

```
[root@xxxxxxx ~]# fwconsole ma download <url>
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
```

- Download a specific module

```
[root@xxxxxxx ~]# fwconsole ma download core --tag 1.2.3
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
```

- Download and install a Module

```
[root@xxxxxxx ~]# fwconsole ma downloadinstall core
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
Checking if directdids need migrating..already done
updating zap callgroup, pickupgroup..not needed
```

```
checking for delay_answer field ..already exists
checking for reversal field ..already exists
checking for pricid field ..already exists
Migrating pickup groups to named pickup groups
Migrating call groups to named call groups
Checking if trunk table migration required..not needed
Checking if privacy manager options exists..already exists
Checking for noanswer_cid field..already exists
Checking for busy_cid field..already exists
Checking for chanunavail_cid field..already exists
Checking for noanswer_dest field..already exists
Checking for busy_dest field..already exists
Checking for chanunavail_dest field..already exists
Unable to add index to extensions field in users
Checking for General Setting migrations..not needed
Deleting unused globals..done
Converting IAX nottransfer to transfer if needed..updated 0000 records
deleting obsoleted record_in and record_out entries..ok
checking for dest field in outbound_routes..already exists
checking for continue field in trunks..already exists
upgrading any zap trunks to dahdi if found..ok
Checking for possibly invalid emergency caller id fields..none found
Generating CSS...Done
Module core successfully installed
Updating Hooks...Done
```

```
[root@xxxxxxx ~]# fwconsole ma downloadinstall <url>
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
Checking if directdids need migrating..already done
updating zap callgroup, pickupgroup..not needed
checking for delay_answer field ..already exists
checking for reversal field ..already exists
checking for pricid field ..already exists
Migrating pickup groups to named pickup groups
Migrating call groups to named call groups
Checking if trunk table migration required..not needed
Checking if privacy manager options exists..already exists
Checking for noanswer_cid field..already exists
Checking for busy_cid field..already exists
Checking for chanunavail_cid field..already exists
Checking for noanswer_dest field..already exists
Checking for busy_dest field..already exists
Checking for chanunavail_dest field..already exists
```

```
Unable to add index to extensions field in users
Checking for General Setting migrations..not needed
Deleting unused globals..done
Converting IAX notransfer to transfer if needed..updated 0000 records
deleting obsoleted record_in and record_out entries..ok
checking for dest field in outbound_routes..already exists
checking for continue field in trunks..already exists
upgrading any zap trunks to dahdi if found..ok
Checking for possibly invalid emergency caller id fields..none found
Generating CSS...Done
Module core successfully installed
Updating Hooks...Done
```

Bulk Import

```
[root@freepbx ~]# fwconsole bulkimport --help
```

Usage:

```
bulkimport [options] [--] <filename>
bi
```

Help:

```
Import a file: fwconsole bulkimport --type=[extensions|dids] filename.
csv --replace(Replace the existing values)
```

If the Bulk Handler module is installed, you can use the command line to import a csv file as follows:

```
fwconsole bulkimport -t|--type="..." filename
```

You must specify the import type and the file name to a valid csv file for import.

CLI Examples:

```
# fwconsole bi --type='dids' dids.csv
Importing bulk dids
# fwconsole bi --type='extensions' extensions.csv
Importing bulk extensions
```

EPM

```
Usage: fwconsole endpoint action [arg arg...]
addmapping : Add extension to extension mapping.
Options:
  --brand      = Brand for extension ie: sangoma
  --mac        = MAC Address for extension.
```

```

--template = Template for extension.
--model    = Model for extension.
--account  = Account for extension.
--accessory = Accessory setting for extension.
--vpn      = VPN ID for extension.

listextensions : List extension(s) by order. Argument 1: Extension or
ALL, Argument 2: Column to order by. Option --detail = All mapping
information.

listtemplates : List all templates.

reboot : Request phone to reboot. SANGOMA PHONES ONLY
rebuild : Rebuild the config files for an extension/template/all
rebuildupdate : Rebuild the config files for an extension/template/all
and tell phone(s) to check config.
remove : Remove an extension. Specify extension.
update : Send a notify to an extension/template/all to check its the
config. Will cause most phones to reboot.

```

- Add Mapping to Extension Mapping

```

# fwconsole epm addmapping 4101 --brand=sangoma --mac=005058500002 --
template=sangomatest --model=S700 --account=account1
Extension 4101 added successfully.

```

- List Extensions

```

# fwconsole epm listextensions ALL
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| Extension | Brand      | MAC          | Template      |
Model      | Account   | Expansion 1  | Rebuild      | VPN          |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| 1012     | Grandstream | 000B82800001 | grandstream-test | GXP-
2170 | account1 | | 1          | |
| 4101     | sangoma    | 005058500003 | sangomatest    |
|         | account1 | |           | |
| 4102     | Yealink    | 001565211111 | yealink-base   | SIP-
T26P | account1 | EXP38-1     | 1             | |
| 4103     | Sangoma    | 005058500001 | sangomatest    |
S500   | account1 | EXP100-1    | 1             | 4103 - 4103 (ID: 4) |
| 4104     | Sangoma    | 005058500002 | sangomatest    |
S700   | account1 | | 1          | |
+-----+-----+-----+-----+
+-----+-----+-----+-----+

# fwconsole epm listextensions ALL --detail
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+

```


grandstream	grandstream-test	10.100.0.3	-06:00	
TFTP	10.100.0.3	digit-on-phone.png	1.14	
sangoma	sangomatest	10.100.0.3	-06:00	
HTTP	10.100.0.3	digit-on-phone.png	1.23	
yealink	yealink-base	10.100.0.3	-06:00	
TFTP	10.100.0.3	sangomapad.png	1.16	
Yes	Yes			

- Reboot Devices

```
# fwconsole epm reboot 4103
Only works for Sangoma phones
Extension 4103 sent reboot command.

# fwconsole epm reboot sangomatest
Only works for Sangoma phones
Extension 4103 sent reboot command
Extension 4104 sent reboot command
Extension 4101 sent reboot command
```

- Rebuild Configuration Files

```
# fwconsole epm rebuild 4103
Extension 4103 rebuilt

# fwconsole epm rebuild sangomatest
Extension 4103 rebuilt
Extension 4104 rebuilt
Extension 4101 rebuilt
```

- Rebuild and Update Devices

```
# fwconsole epm rebuildupdate 4103
Extension 4103 rebuilt
Update command sent to 4103

# fwconsole epm rebuildupdate sangomatest
Extension 4103 rebuilt
Extension 4104 rebuilt
Extension 4101 rebuilt
Update command sent to 4103
```



```
Update command sent to 4104
Update command sent to 4101
```

- Remove Devices

```
# fwconsole epm remove 4103
4103 removed succesfully
```

- Update Devices

```
# fwconsole epm update 4103
Update command sent to 4103

# fwconsole epm update sangomatest
Update command sent to 4103
Update command sent to 4104
Update command sent to 4101
```

Notification

```
[root@freepbxdev1 faxpro]# fwconsole notification --help
Options:
  --list           list notifications
  --delete         Delete notification
  --help (-h)     Display this help message
  --json          format list as json
Help:
Notifications Help:
Usage: fwconsole notification [--list] [--delete module id]
```

- List Notifications

```
[root@freepbxdev1 faxpro]# fwconsole notification --list
+-----+-----+
+-----+-----+
| Module      | ID          |                               |
Text          |             |                               |
+-----+-----+
+-----+-----+
| freepbx     | FW_UNSIGNED | You have 95 unsigned         |
modules      |             |                               |
| freepbx     | NEWUPDATES  | There are 3 modules         |
available for online upgrades |             |                               |
| cron_manager | EXECFAIL    | Cronmanager encountered 1   |
Errors       |             |                               |
```

```

| dahdiconfig | etcdahdimodules | File /etc/dahdi/modules
is not owned by asterisk |
| dahdiconfig | etcdahdisystem.conf | File /etc/dahdi/system.
conf is not owned by asterisk |
| dahdiconfig | etcmprobe.ddahdi.conf | File /etc/modprobe.d
/dahdi.conf is not owned by asterisk |
| freepbx | modules_disabled | You have 10 disabled
modules |
| cidlookup | noauth | OpenCNAM Requires
Authentication |
| fax | invalid_email | Invalid Email for Inbound
Fax |
| freepbx | NEWMODS | 1 New modules are
available |
| retrieve_conf | SYMLINKNOTICE | Symlink Conflict
Resolved |
| sipstationdid | ss7149223196 | SIPSTATION DID
routed |
+-----+-----+
+-----+-----+

```

```

[root@freepbxdev1 faxpro]# fwconsole notification --list --json
[["freepbx","FW_UNSigned","You have 95 unsigned modules"],["freepbx","
NEWUPDATES","There are 3 modules available for online upgrades"],
["cron_manager","EXECFAIL","Cronmanager encountered 1 Errors"],
["dahdiconfig","etcdahdimodules","File \\/etc\\/dahdi\\/modules is not
owned by asterisk"],["dahdiconfig","etcdahdisystem.conf","File \\/etc\\/
dahdi\\/system.conf is not owned by asterisk"],["dahdiconfig","
etcmprobe.ddahdi.conf","File \\/etc\\/modprobe.d\\/dahdi.conf is not
owned by asterisk"],["freepbx","modules_disabled","You have 10
disabled modules"],["cidlookup","noauth","OpenCNAM Requires
Authentication"],["fax","invalid_email","Invalid Email for Inbound
Fax"],["freepbx","NEWMODS","1 New modules are available"],
["retrieve_conf","SYMLINKNOTICE","Symlink Conflict Resolved"],
["sipstationdid","ss7149223196","SIPSTATION DID routed"]]

```

- Delete notification (by ID)

```

[root@freepbxdev1 faxpro]# fwconsole notification --delete
dahdiconfig etcdahdimodules
Deleting notification
Notification Deleted
[root@freepbxdev1 faxpro]# fwconsole notification --list
+-----+-----+
+-----+-----+
| Module | ID |
Text |
+-----+-----+
+-----+-----+
| freepbx | FW_UNSigned | You have 95 unsigned

```

```

modules
| freepbx      | NEWUPDATES      | There are 3 modules
available for online upgrades
| cron_manager | EXECFAIL        | Cronmanager encountered 1
Errors
| dahdiconfig  | etcdahdisystem.conf | File /etc/dahdi/system.
conf is not owned by asterisk
| dahdiconfig  | etcmmodprobe.dahdi.conf | File /etc/modprobe.d
/dahdi.conf is not owned by asterisk
| freepbx      | modules_disabled | You have 10 disabled
modules
| cidlookup    | noauth          | OpenCNAM Requires
Authentication
| fax          | invalid_email   | Invalid Email for Inbound
Fax
| freepbx      | NEWMODS         | 1 New modules are
available
| retrieve_conf | SYMLINKNOTICE   | Symlink Conflict
Resolved
| sipstationdid | ss7149223196   | SIPSTATION DID
routed
+-----+-----+
+-----+-----+

```

Module System Manager

```

[root@freepbxdev1 faxpro]# fwconsole notification --help
Options:
  --list          List Configs
  --help (-h)    Display this help message
Help:
Notifications Help:
Usage: fwconsole modulesystemmanager [--list]

```

List Settings

```

[root@Andrew14 framework]# fwconsole modulesystemmanager --list
+-----+-----+
| Name                | Value                |
+-----+-----+
| notification_emails | admin@admin.com     |
| system_ident        | VoIP Server         |
| auto_system_updates | disabled             |
| auto_module_updates | enabled             |
| auto_module_security_updates | emailonly         |
| unsigned_module_emails | disabled            |
| update_every        | saturday            |
| update_period       | 4to8                |
+-----+-----+

```

Change a setting

```
[root@Andrew14 framework]# fwconsole modulesystemmanager system_ident "My
New Server"
Changing "system_ident" from [VoIP Server] to [My New Server]
```

Qxact Reports

Feature added in 14+

Running fwconsole qxact will display help text:

```
# fwconsole qxact
Usage:
  qxactreports [options]

Arguments:
  command                The command to execute

Options:
  --sync                 Synchronize
  --dryrun               Dont execute any SQL statements
  --forcetype=FORCETYPE Force Type: database or file
  --import=IMPORT       Files to import separate by comma
  --reimport=REIMPORT   Files to reimport separate by comma
  -h, --help            Display this help message
  -q, --quiet           Do not output any message
  -V, --version         Display this application version
  --ansi                Force ANSI output
  --no-ansi             Disable ANSI output
  -n, --no-interaction  Do not ask any interactive question
  -v|vv|vvv, --verbose  Increase the verbosity of messages: 1 for
normal output, 2 for more verbose output and 3 for debug

Help:
  QXact Reports
```

To re-import all the existing rotated queue_log files run:

```
for i in $(ls -ltr /var/log/asterisk/queue_log*); do fwconsole qxact --
reimport=$i --sync --verbose; done
```

Paging Pro

```
[root@freepbxdev1 restapps]# fwconsole pagingpro --help
Usage:
```

```

pagingpro [-c|--clean] [-e|--execute="..."] [-l|--list[="..."]]
Options:
--clean (-c)           Cleanup stale pages and add needed pages
--execute (-e)         Execute a scheduled page now
--list (-l)           List Scheduled Pages
--help (-h)           Display this help message
--quiet (-q)          Do not output any message
--verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
output, 2 for more verbose output and 3 for debug

```

- Cleanup stale pages and add needed pages (This is also run as a cron in crontab every minute. There it's called: */1 * * * * /var/lib/asterisk/bin/pagepro-scheduler.php 2>&1 >/dev/null)
Run command with --verbose to get detailed data

```

[root@freepbxdev1 framework]# fwconsole pagingpro --clean --verbose
Found scheduled page for ID 500 occuring at 1466527800

```

- List active scheduled pages

```

[root@freepbxdev1 framework]# fwconsole pagingpro --list
+-----+-----+-----+
| Page ID | Time       | Cron Exists |
+-----+-----+-----+
| 500     | 1466527800 | Yes         |
+-----+-----+-----+

```

- List specific scheduled page by id

```

[root@freepbxdev1 framework]# fwconsole pagingpro --list 500
+-----+-----+-----+
| Page ID | Time       | Cron Exists |
+-----+-----+-----+
| 500     | 1466527800 | Yes         |
+-----+-----+-----+

```

- Execute a scheduled page immediately (for testing) using the paging pro page scheduler processes

```

[root@freepbxdev1 framework]# fwconsole pagingpro --execute 500
[root@freepbxdev1 framework]# <phones should be ringing>

```

Phone Apps

```

[root@freepbxdev1 restapps]# fwconsole phoneapps --help
Arguments:
blf           Show BLF States: <ext> [<app>]
Options:
--help (-h)  Display this help message

```

```
--quiet (-q)           Do not output any message
--verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
output, 2 for more verbose output and 3 for debug
```

- Get statuses of BLF lights for extension

```
[root@freepbxdev1 restapps]# fwconsole phoneapps blf 12000
+-----+
| ID          | BLF Status |
+-----+
| Call Forward | Inactive   |
| Conference   | Inactive   |
| DND          | Inactive   |
| Follow Me    | Active     |
| Parking      | Inactive   |
| Queues       | Inactive   |
| Queue Agent  | Active     |
| Time Conditions | Inactive   |
| Voicemail    | Active     |
| Call Flow    | Inactive   |
+-----+
```

- Get status of BLF lights for single Application

```
[root@freepbxdev1 restapps]# fwconsole phoneapps blf 12000 "Parking"
+-----+
| ID      | BLF Status |
+-----+
| Parking | Inactive   |
+-----+
```

- Get more information about said hint by adding "--verbose"

```
[root@freepbxdev1 restapps]# fwconsole phoneapps blf 12000 "Call
Flow" --verbose
+-----+
| ID          | BLF Status | Hint          |
+-----+
| Call Flow   | Inactive   | Custom:DAYNIGHT0 |
+-----+
```

pm2

Used to manage background/long running processes

```
[root@freepbxdev1 ~]# fwconsole pm2 --help
```

```

|  ____|
| |____| |  _ \| |  _ \| \| / /
| |  _| |  _ \| |  _ \| |  _ \| \| / /
| |  _| |  _ \| |  _ \| |  _ \| \| / /
| |  _| |  _ \| |  _ \| |  _ \| \| / /
| |  _| |  _ \| |  _ \| |  _ \| \| / /

```

Usage:

```

pm2 [--list] [--stop="..."] [--restart="..."] [--delete="..."] [--update]
[--reload-logs] [--log="..."] [--lines="..."]

```

Options:

```

--list           List Process
--stop          Stop Process
--restart       Restart Process
--delete       Delete Process
--update       Save processes, kill PM2 and restore processes
--reload-logs  Reload all log file pointers
--log          Stream Logs from Process
--lines        How many lines to stream
--help (-h)    Display this help message
--quiet (-q)   Do not output any message
--verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
output, 2 for more verbose output and 3 for debug
--version (-V) Display this application version
--ansi         Force ANSI output
--no-ansi      Disable ANSI output
--no-interaction (-n) Do not ask any interactive question

```

- List Processes

```

[root@freepbxdev1 ~]# fwconsole pm2 --list
+-----+-----+-----+-----+-----+
+-----+-----+
| Process Name | PID   | Status | Restarts | Uptime           |
CPU | Mem   |
+-----+-----+-----+-----+-----+
+-----+-----+
| xmpp         | 8495  | online | 0         | 6 hours, 29 minutes |
0% | 218.13MB |
| restapps    | 8665  | online | 0         | 6 hours, 29 minutes |
0% | 47.63MB  |
| zulu        | 8825  | online | 0         | 6 hours, 29 minutes |
0% | 94.29MB  |
| ucptime     | 10048 | online | 0         | 6 hours, 28 minutes |
0% | 73.53MB  |
| qcallback   | 16218 | online | 30        | 5 hours, 54 minutes |
0% | 29.59MB  |
+-----+-----+-----+-----+-----+
+-----+-----+

```

- Stop Process

```
[root@freepbxdev1 ~]# fwconsole pm2 --stop xmpp
Process Stopped
[root@freepbxdev1 ~]# fwconsole pm2 --list
```

Process Name	PID	Status	Restarts	Uptime
xmpp	0	stopped	0	0
restapps	8665	online	0	6 hours, 30 minutes
zulu	8825	online	0	6 hours, 30 minutes
ucpnode	10048	online	0	6 hours, 29 minutes
qcallback	16218	online	30	5 hours, 55 minutes

- Restart Process

```
[root@freepbxdev1 ~]# fwconsole pm2 --restart xmpp
Process Restarted
[root@freepbxdev1 ~]# fwconsole pm2 --list
```

Process Name	PID	Status	Restarts	Uptime
xmpp	8299	online	0	4 seconds
restapps	8665	online	0	6 hours, 30 minutes
zulu	8825	online	0	6 hours, 30 minutes
ucpnode	10048	online	0	6 hours, 29 minutes
qcallback	16218	online	30	5 hours, 56 minutes

- Delete Process (Only removes and stops it from the Process Management Module, does not remove the module itself)

```
[root@freepbxdev1 ~]# fwconsole pm2 --delete xmpp
Process Stopped and Deleted
```



```
[root@freepbxdev1 ~]# fwconsole pm2 --list
+-----+-----+-----+-----+-----+
+-----+-----+
| Process Name | PID   | Status | Restarts | Uptime           |
CPU | Mem   |
+-----+-----+-----+-----+-----+
+-----+-----+
| restapps     | 8665  | online | 0         | 6 hours, 31 minutes |
0% | 47.63MB |
| zulu         | 8825  | online | 0         | 6 hours, 31 minutes |
0% | 94.29MB |
| ucptime     | 10048 | online | 0         | 6 hours, 30 minutes |
0% | 73.55MB |
| qcallback    | 16218 | online | 30        | 5 hours, 56 minutes |
0% | 29.59MB |
+-----+-----+-----+-----+-----+
+-----+-----+
```

- Tail log (Used to tail logs for an application/process)

```
[root@freepbxdev1 ~]# fwconsole pm2 --log restapps --lines 20
OUT > ==> /var/log/asterisk/restapps_err.log <==
==> /var/log/asterisk/restapps_out.log <==
2017-04-12 01:34 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 01:34 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-presencestate] Setting button
linekeys:14 to IN_USE
2017-04-12 01:48 -04:00: [8665][1001-parking] Setting button linekeys:
13 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-findmefollow] Setting button
linekeys:11 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-donotdisturb] Setting button
linekeys:10 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-presencestate] Setting button
linekeys:14 to IN_USE
2017-04-12 02:02 -04:00: [8665][1001-parking] Setting button linekeys:
13 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-findmefollow] Setting button
linekeys:11 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-donotdisturb] Setting button
linekeys:10 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-presencestate] Setting button
```

```

linekeys:14 to IN_USE
2017-04-12 02:17 -04:00: [8665][1001-parking] Setting button linekeys:
13 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-findmefollow] Setting button
linekeys:11 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-donotdisturb] Setting button
linekeys:10 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE

```

- Update PM2 (Used to update the PM2 binary in memory, this will stop all applications to update the PM2 library!)

```

[root@freepbxdev1 ~]# fwconsole pm2 --update
Be sure to have the latest version by doing `npm install pm2@latest -
g` before doing this procedure.
[PM2] Saving current process list...
[PM2] Stopping PM2...
[PM2] Applying action deleteProcessId on app [all](ids: 1,2,3,4)
[PM2] [ucpnode](3)
[PM2] [restapps](1)
[PM2] [qcallback](4)
[PM2] [zulu](2)
[PM2] All processes have been stopped and deleted
[PM2] PM2 stopped
[PM2] Spawning PM2 daemon with pm2_home=/home/asterisk/.pm2
[PM2] Restoring processes located in /home/asterisk/.pm2/dump.pm2
[PM2] Process /usr/src/freepbx/restapps/restapps.php restored
[PM2] Process /usr/src/freepbx/zulu/node/index.js restored
[PM2] Process /usr/src/freepbx/ucpnode/node/index.js restored
[PM2] Process /usr/src/freepbx/vqplus/queue-callback.php restored
>>>>>>>> PM2 updated

  App name   id  mode  pid  status  restart  uptime  cpu  mem
watching

  qcallback  3   fork  9316  online  0         0s     46%  18.5 MB
disabled
  restapps   0   fork  9289  online  0         0s    168%  33.4 MB
disabled
  ucpnode    2   fork  9305  online  0         0s     59%  15.1 MB
disabled
  zulu       1   fork  9295  online  0         0s     71%  17.8 MB
disabled

Use `pm2 show <id|name>` to get more details about an app
Update PM2 Process

```

- Reload Log file pointers (used during logrotates)

Sound Languages

```
[root@Andrew14 soundlang]# fwconsole sound --help
Usage:
  sounds [options]

Options:
  --list                List Process
  --listglobal          Delete Process
  --install=INSTALL    Stop Process
  --uninstall=UNINSTALL Restart Process
  --global=GLOBAL      Save processes, kill PM2 and restore processes
-h, --help            Display this help message
-q, --quiet           Do not output any message
-V, --version         Display this application version
  --ansi              Force ANSI output
  --no-ansi           Disable ANSI output
-n, --no-interaction Do not ask any interactive question
-v|vv|vvv, --verbose Increase the verbosity of messages: 1 for
normal output, 2 for more verbose output and 3 for debug

Help:
  Sound Language Prompts
```

- List Available Packages

```
[root@Andrew14 soundlang]# fwconsole sound --list
+-----+-----+
+-----+-----+
| ID    | Language                |
Author          | Installed |
+-----+-----+
+-----+-----+
| cs    | Czech (cs)              | Westany
Ltd.            |           |
| en    | English (en)            | Allison
Smith           | X         |
| en_AU | English - Australia (en_AU) |
CAMSOWN        |           |
| en_GB | English - United Kingdom (en_GB) | Jay
Benham         |           |
| en_NZ | English - New Zealand (en_NZ) | Rover Voice
Services       |           |
| es    | Spanish (es)            | Allison
Smith          |           |
| fa    | Persian (fa)            |
SENA           |           |
| fr    | French (fr)             | June
Wallack        |           |
| he    | Hebrew (he)             | Westany
Ltd.           |           |
```

```

| it      | Italian (it)          | Carlo
Flora    |                       |
| ja      | Japanese (ja)        | Ryoko SONODA (QLOOG,
Inc.)    |                       |
| nl      | Dutch (nl)           | Westany
Ltd.     |                       |
| no      | Norwegian (no)       | Westany
Ltd.     |                       |
| pl      | Polish (pl)          | Westany
Ltd.     |                       |
| ru      | Russian (ru)         | http://www.ivrvoice.
ru/      |                       |
| sv      | Swedish (sv)         | Tove
Hjelm    |                       |
| tr      | Turkish (tr)         | Westany
Ltd.     |                       |
+-----+-----+
+-----+-----+

```

- Install

```

[root@Andrew14 soundlang]# fwconsole sound --install cs
<snip>
Accept License Agreement? [y/n]y
Installing cs...Done

```

- Uninstall

```

[root@Andrew14 soundlang]# fwconsole sound --uninstall cs
Uninstalling cs...Done

```

- List Global

```

[root@Andrew14 soundlang]# fwconsole sound --listglobal
+-----+-----+-----+
| ID | Name      | Default |
+-----+-----+-----+
| en | English   | X       |
+-----+-----+-----+

```

- Set Global

```

[root@Andrew14 soundlang]# fwconsole sound --global en
Successfully set default language to en, you will need to reload

```

System Admin

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin --help
Help:
Usage: fwconsole sysadmin action [arg arg...]
info : Display Activation info
activate : Activate system with provided Deployment ID
update : Refresh Activation information
```

- Get Activation Information

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin info
Activation Status:
Zend ID:          M:XXXXXX-XXXXXX-XXXXXX-XXXXXX
Lic File:         Present
Deployment:        freepbxdev1
```

- Update the license file on your installation

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin update
Updating license for freepbxdev1
Done!
No changes from original Licence.
```

- Activate system using your deploymentid

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin activate <deploymentid>
```

Trunks

Interactive toggle

```
[root@pbx ~]# fwconsole trunks
Choose an ID to enable/disable
+---+-----+-----+-----+
| ID | TECH | Channel ID          | Disabled |
+---+-----+-----+-----+
| 1  | pjsip | flowroute           | off      |
| 2  | sip   | fpbx-1-QWm3eNC4UIDn | on       |
| 3  | sip   | fpbx-2-QWm3eNC4UIDn | off      |
| 4  | pjsip | Telnyx              | off      |
+---+-----+-----+-----+
[1] 1
[2] 2
[3] 3
[4] 4
>
```

List Trunks

```
[root@pbx ~]# fwconsole trunks --list
+-----+-----+-----+-----+
| ID | TECH | Channel ID | Disabled |
+-----+-----+-----+-----+
| 1 | pjsip | flowroute | off |
| 2 | sip | fpbx-1-QWm3eNC4UIDn | on |
| 3 | sip | fpbx-2-QWm3eNC4UIDn | off |
| 4 | pjsip | Telnyx | off |
+-----+-----+-----+-----+
```

Specifying a trunk to enable or disable

```
[root@pbx ~]# fwconsole trunks --enable 2
Enabling Trunk 2

[root@pbx ~]# fwconsole trunks --disable 2
Disabling Trunk 2
```

"fwconsole" is the Linux command that controls FreePBX 13+ from the Linux command prompt.

To access the command prompt, log-in to the machine where you installed FreePBX/Asterisk using your "root" username and password. You can do so by accessing the keyboard of the machine where you installed FreePBX, or remotely using an SSH client such as Putty.

Then type one of the following "fwconsole" commands below

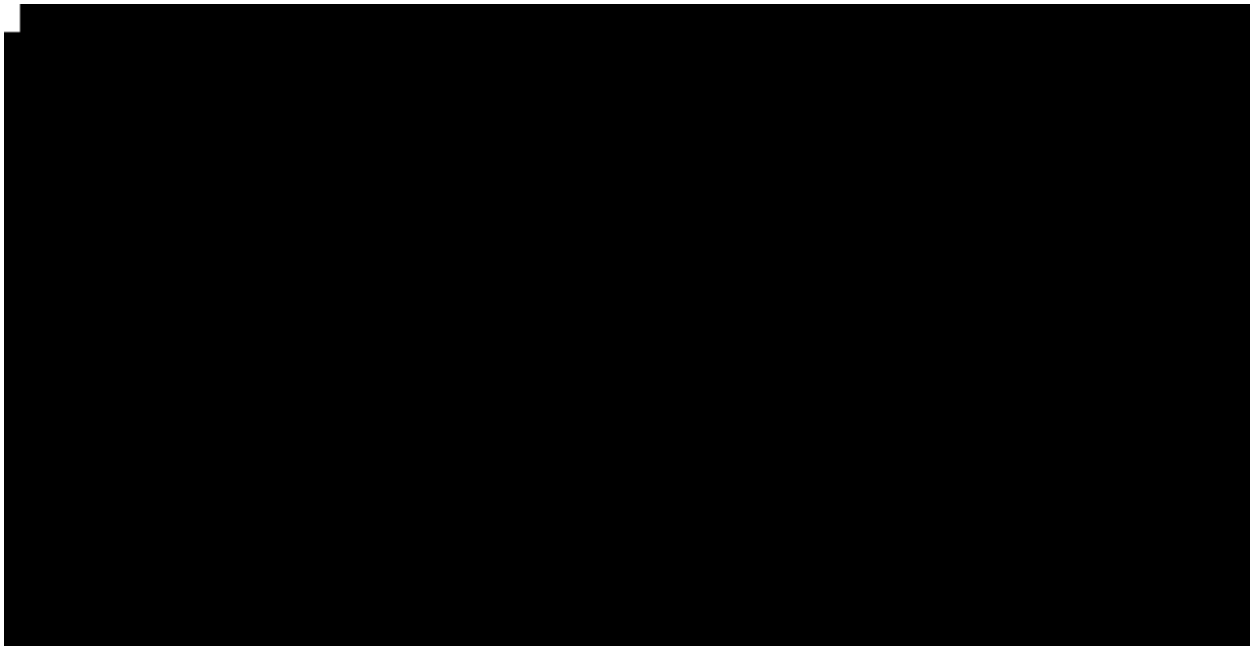
All commands can be suffixed with --help to get more information

Command List

Command	Short	Description
bulkimport	bi	This command is used to import extensions and dids
certificates		Certificate Management
chown		Change ownership of files
context	cx	Shows the specified context from the dialplan
doctrine		Specific database documentation (for Development)
debug	dbug	Stream log files for debugging
epm		Endpoint Manager
externalip	extip	Get External IP
firewall		Firewall functions
help		Displays help for a command
list		Lists commands
mysql	m	Runs MySQL Client using freepbx credentials

moduleadmin	ma	Module Administration
notification		Manage notifications
reload	r	Reload Configs and Asterisk
restart		Start Asterisk and run other needed FreePBX commands
pagingpro		Paging Pro Interface
phoneapps		Debug Phone App Problems (For XML Style BLFs)
pm2		Process Management
setting	set	
sysadmin	sa	System Admin Functions
trunks		Enable and disable trunks from the command line
unlock	un	Unlock Session
userman		User Manager
util		Common Utilities
vqplus		VQPlus functions

Stop/Start/Restart



This is how FreePBX starts asterisk and any other processes it need. You should always start and restart asterisk with the amportal command not the service asterisk or /etc/init.d/asterisk commands

fwconsole stop

fwconsole start

fwconsole restart

Chown

fwconsole chown - This will change ownership of all files and directories that FreePBX needs to be owned by the apache user.

- See verbose details about chown operations (ownership and permissions per file)

```
[root@freepbxdev1 userman]# fwconsole chown --verbose
Setting /var/lib/asterisk/ucp/out.log owner to: asterisk:asterisk,
with permissions of: 644
Setting /var/lib/asterisk/ucp/err.log owner to: asterisk:asterisk,
with permissions of: 644
Setting /var/lib/asterisk/ucp/ucp.log owner to: asterisk:asterisk,
with permissions of: 644
Setting /var/lib/asterisk/ucp/config.json owner to: asterisk:
asterisk, with permissions of: 644
```

- Chown a specific file (or see details about only ONE file/directory)

```
[root@localhost ~]# fwconsole chown --verbose --file=/var/www/html
/admin/modules/timeconditions/bin/schedtc.php
Taking too long? Customize the chown command, See http://wiki.freepbx.org/display/FOP/FreePBX+Chown+Conf
Setting Permissions...
    Collecting Files...Done
Setting /var/www/html/admin/modules/timeconditions/bin/schedtc.php
owner to: asterisk:asterisk, with permissions of: 644
Setting /var/www/html/admin/modules/timeconditions/bin/schedtc.php
owner to: asterisk:asterisk, with permissions of: 755
Finished setting permissions
```

In the example above you will see two permissions set for one file. This is completely normal. The first one is the generic setting and the second one is the setting from the module itself.

Doctrine

This command is used to export out table information to be used in FreePBX table creation for module installations

Two formats are supported. XML and PHP.

The XML should be used in the module.xml file

```
[root@freepbxdev1 framework]# fwconsole doctrine meetme --format=xml
<database>
  <table name="meetme">
    <field name="exten" type="string" length="50"/>
    <field name="options" type="string" length="15" notnull="false"/>
    <field name="userpin" type="string" length="50" notnull="false"/>
    <field name="adminpin" type="string" length="50" notnull="false"/>
    <field name="description" type="string" length="50" notnull="false"/>
    <field name="joinmsg_id" type="integer" notnull="false"/>
    <field name="music" type="string" length="80" notnull="false"/>
    <field name="users" type="smallint" default="0" unsigned="true"
notnull="false"/>
    <field name="language" type="string" length="10"/>
    <key name="PRIMARY" type="unique">
      <column name="exten"/>
    </key>
  </table>
</database>
```

The PHP code should be used inside install.php or the module's class.

```
[root@freepbxdev1 framework]# fwconsole doctrine meetme --format=php
$table = FreePBX::Database()->migrate("meetme");
$cols = array (
  'exten' =>
  array (
    'type' => 'string',
    'length' => '50',
  ),
  'options' =>
  array (
    'type' => 'string',
    'length' => '15',
    'notnull' => false,
  ),
  'userpin' =>
  array (
    'type' => 'string',
    'length' => '50',
    'notnull' => false,
  ),
  'adminpin' =>
  array (
    'type' => 'string',
    'length' => '50',
```

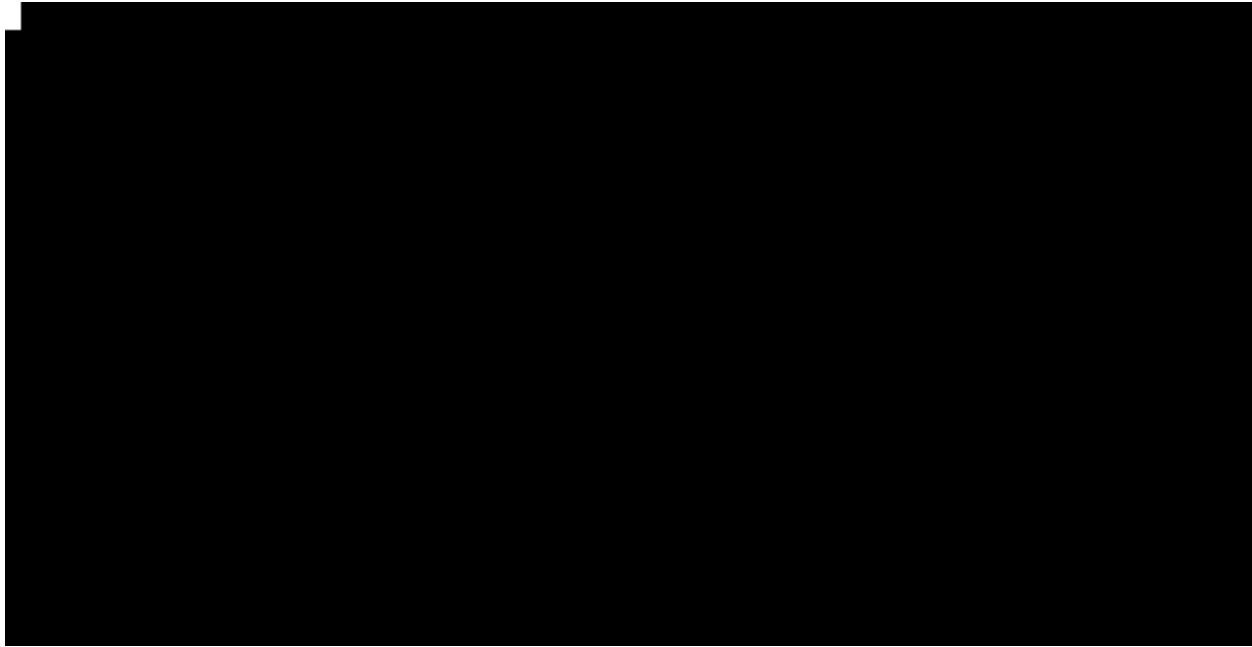
```

        'nonnull' => false,
    ),
    'description' =>
array (
    'type' => 'string',
    'length' => '50',
    'nonnull' => false,
),
    'joinmsg_id' =>
array (
    'type' => 'integer',
    'nonnull' => false,
),
    'music' =>
array (
    'type' => 'string',
    'length' => '80',
    'nonnull' => false,
),
    'users' =>
array (
    'type' => 'smallint',
    'nonnull' => false,
    'unsigned' => true,
    'default' => '0',
),
    'language' =>
array (
    'type' => 'string',
    'length' => '10',
),
);

$indexes = array (
    'PRIMARY' =>
array (
    'type' => 'unique',
    'cols' =>
array (
    0 => 'exten',
),
),
);
$table->modify($cols);
unset($table);

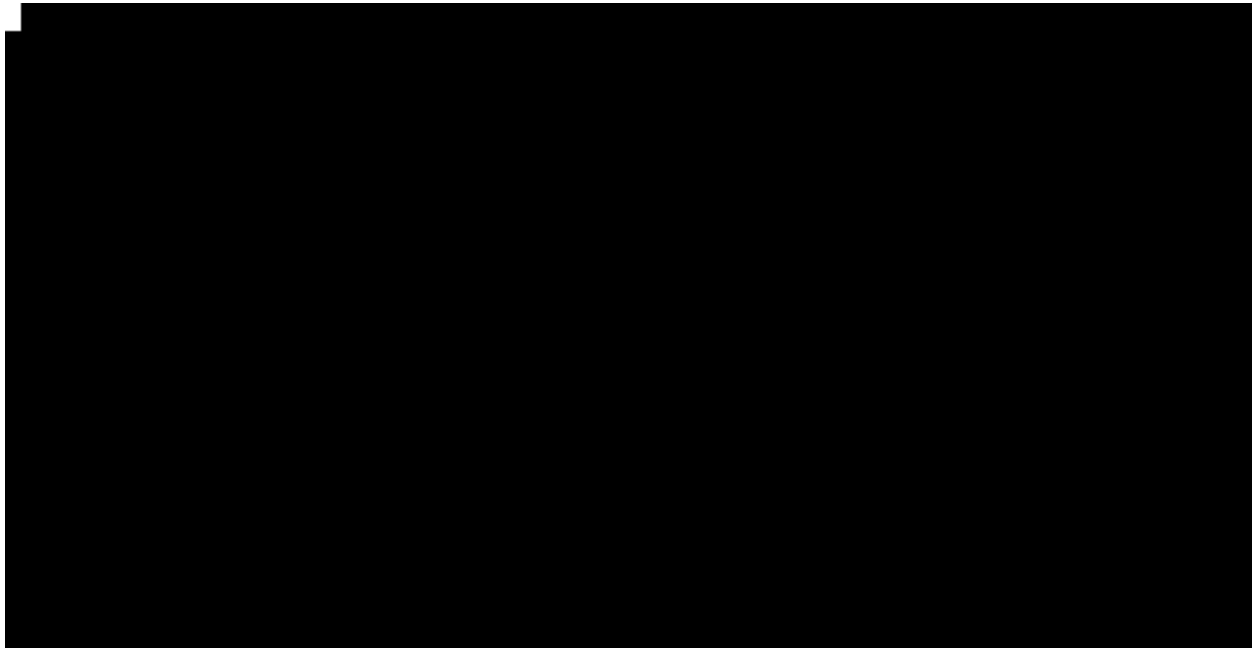
```

Reload



fwconsole reload - This will perform a reload of all the dialplan in Asterisk and all the modules in asterisk. This is the same as pressing the "Apply Changes" button in the GUI of FreePBX

Unlock



fwconsole unlock xxxxxxxxxxxxxxxxx- The fwconsole unlock command will unlock the GUI login of FreePBX to let you into the FreePBX GUI without the username and password. This is handy if you lost or misplaced your FreePBX GUI username or password and need to get into the GUI to change or setup a new user. You need to replace the xxxxxxxx with your PHP session ID. Follow the steps below.

- Bring up the main login page to FreePBX in your browser. Such as <http://192.168.0.2/admin>

- Do a "ctrl a" to highlight the whole page and look to the left center of the screen for some text. This is your unique php session ID. Copy this into your clipboard.



FreePBX Administration



User Control Panel



Operator Panel



Get Support

- Go into the linux CLI and type the following command replacing the session ID below with your own.

```
[root@localhost ~]# fwconsole unlock pptr811v1e32s3q8b79s4n1sp7
Please wait...
session unlocked!
[root@localhost ~]#
```

- Go refresh your browser page and it will log you in this one time automatically for you based on that php session ID. Now you can go add or change the FreePBX admin users.

Userman

This command provides information about User Manager

- Run synchronization for external authentication engines

```
[root@freepbxdev1 userman]# fwconsole userman sync
Starting Sync...
```

- Get verbose details about synchronization status

```
[root@freepbxdev1 userman]# fwconsole userman sync --verbose
Starting Sync...
```

Util

General Utility functions for FreePBX

- Clean up playback cache. This is normally run through a cron job. It removes any cached media (browser playback, moh/recording temp files,) that is over 60 days old.

```
[root@freepbxdev1 paging]# fwconsole util cleanplaybackcache
Starting Cache cleanup
Finished cleaning up cache
```

- Used to check all signatures on the system. Does not return any output

```
[root@freepbxdev1 paging]# fwconsole util signaturecheck
[root@freepbxdev1 paging]#
```

- Runs a repair against the SQL Databases

```
[root@freepbxdev1 paging]# fwconsole util tablefix
Attempting to repair MySQL Tables this may take a while
MySQL Tables Repaired
```

Database

fwconsole m This will connect you to the mysql database as the FreePBX user automatically based on the username and password for MySQL in /etc/freepbx.conf

```
[root@freepbxdev1 faxpro]# fwconsole m
Connecting to the Database...Reading table information for completion of
table and column names
You can turn off this feature to get a quicker startup with -A
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 123880
Server version: 5.1.73-log Source distribution
Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights
reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.
mysql>
```

Module Administration

Command line utility for controlling FreePBX Module installation.

```
[root@ldev2 ~]# fwconsole ma
Module Administration Help:
Usage: fwconsole moduleadmin [-f][--R reponame][--R reponame][action][arg1]
[arg2][arg...]
Flags:
-f - FORCE
-R - REPO, accepts reponame as a single argument
--edge - EDGE, forces download from the edge repository
--skipchown          Skip the chown operation
--nopromptdisabled  Don't ask to enable disabled modules
--format            Format can be: json, jsonpretty
```

```

--tag                Download/Upgrade to a specific tag
Module Actions:
checkdepends : Checks dependencies for provided module[s], accepts
argument module[s]
disable : Disables module[s] accepts argument module[s]
download : Download module[s], accepts argument module[s] or URLs
downloadinstall : Download and install module[s], accepts argument module
[s] or URLs
delete : Deleted module[s], accepts argument module[s]
enable : Enable module[s], accepts argument module[s]
install : Installs module[s], accepts argument module[s]
installlocal : Install local module[s], accepts argument module[s]
uninstall : Uninstalls module[s], accepts argument module[s]
upgrade : Upgrade module[s], accepts argument module[s]
All inclusive Module Actions:
installall : Installs all modules, accepts no arguments
enableall : Trys to enable all modules, accepts no arguments
upgradeall : Upgrades all modules, accepts no arguments
Repository Actions:
disablerepo : Disables repo, accepts argument repo[s]
enablerepo : Enables repo, accepts argument repo[s]
list : List all local modules, accepts no arguments
listonline : List online modules, accepts no arguments
showupgrades : Shows a list of modules that may be updated, accepts no
arguments
i18n : Shows translation information for supplied modules, accepts
argument module[s]
refreshsignatures : ReDownloads all modules that have invalid signatures

```

Edge modules:

In Framework 13.0.69 we added the ability to install [edge modules](#). To upgrade to a module in the edge track pass the `--edge` flag

```
fwconsole ma --edge upgrade foomodule
```

- Check Module Dependencies

```
[root@xxxxxxx ~]# fwconsole ma checkdepends core
All dependencies met for module core
```

- Disable a module

```
[root@freepbxdev1 faxpro]# fwconsole ma disable asterisk-cli
Module asterisk-cli successfully disabled
Updating Hooks...Done
```

- Download a Module

```
[root@xxxxxxx ~]# fwconsole ma download core
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
```

```
[root@xxxxxxx ~]# fwconsole ma download <url>
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
```

- Download a specific module

```
[root@xxxxxxx ~]# fwconsole ma download core --tag 1.2.3
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
```

- Download and install a Module

```
[root@xxxxxxx ~]# fwconsole ma downloadinstall core
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
Checking if directdids need migrating..already done
updating zap callgroup, pickupgroup..not needed
```



```
checking for delay_answer field ..already exists
checking for reversal field ..already exists
checking for pricid field ..already exists
Migrating pickup groups to named pickup groups
Migrating call groups to named call groups
Checking if trunk table migration required..not needed
Checking if privacy manager options exists..already exists
Checking for noanswer_cid field..already exists
Checking for busy_cid field..already exists
Checking for chanunavail_cid field..already exists
Checking for noanswer_dest field..already exists
Checking for busy_dest field..already exists
Checking for chanunavail_dest field..already exists
Unable to add index to extensions field in users
Checking for General Setting migrations..not needed
Deleting unused globals..done
Converting IAX nottransfer to transfer if needed..updated 0000 records
deleting obsoleted record_in and record_out entries..ok
checking for dest field in outbound_routes..already exists
checking for continue field in trunks..already exists
upgrading any zap trunks to dahdi if found..ok
Checking for possibly invalid emergency caller id fields..none found
Generating CSS...Done
Module core successfully installed
Updating Hooks...Done
```

```
[root@xxxxxx ~]# fwconsole ma downloadinstall <url>
No repos specified, using: [standard,commercial] from last GUI
settings
Starting core download..
Processing core
Downloading...
 3076094/3076094 [=====] 100%
Finished downloading
Extracting...Done
Module core successfully downloaded
Checking if directdids need migrating..already done
updating zap callgroup, pickupgroup..not needed
checking for delay_answer field ..already exists
checking for reversal field ..already exists
checking for pricid field ..already exists
Migrating pickup groups to named pickup groups
Migrating call groups to named call groups
Checking if trunk table migration required..not needed
Checking if privacy manager options exists..already exists
Checking for noanswer_cid field..already exists
Checking for busy_cid field..already exists
Checking for chanunavail_cid field..already exists
Checking for noanswer_dest field..already exists
Checking for busy_dest field..already exists
Checking for chanunavail_dest field..already exists
```

```
Unable to add index to extensions field in users
Checking for General Setting migrations..not needed
Deleting unused globals..done
Converting IAX notransfer to transfer if needed..updated 0000 records
deleting obsoleted record_in and record_out entries..ok
checking for dest field in outbound_routes..already exists
checking for continue field in trunks..already exists
upgrading any zap trunks to dahdi if found..ok
Checking for possibly invalid emergency caller id fields..none found
Generating CSS...Done
Module core successfully installed
Updating Hooks...Done
```

Bulk Import

```
[root@freepbxdev1 faxpro]# fwconsole bulkimport --help
Options:
  --type (-t)          Type of file
Help:
  Import a file: fwconsole bulkimport --type=
[extensions|dids|userman|contactmanager] filename.csv
```

If the Bulk Handler module is installed, you can use the command line to import a csv file as follows:

```
fwconsole bulkimport -t|--type="..." filename
```

You must specify the import type and the file name to a valid csv file for import.

CLI Examples:

```
# fwconsole bi --type='dids' dids.csv
Importing bulk dids
# fwconsole bi --type='extensions' extensions.csv
Importing bulk extensions
```

EPM

```
Usage: fwconsole endpoint action [arg arg...]
addmapping : Add extension to extension mapping.
Options:
  --brand      = Brand for extension ie: sangoma
  --mac        = MAC Address for extension.
  --template   = Template for extension.
  --model      = Model for extension.
  --account    = Account for extension.
  --accessory  = Accessory setting for extension.
```

```

--vpn          = VPN ID for extension.
listextensions : List extension(s) by order. Argument 1: Extension or
ALL, Argument 2: Column to order by. Option --detail = All mapping
information.
listtemplates : List all templates.
reboot        : Request phone to reboot.  SANGOMA PHONES ONLY
rebuild       : Rebuild the config files for an extension/template/all
rebuildupdate : Rebuild the config files for an extension/template/all
and tell phone(s) to check config.
remove        : Remove an extension. Specify extension.
update        : Send a notify to an extension/template/all to check its the
config. Will cause most phones to reboot.

```

- Add Mapping to Extension Mapping

```

# fwconsole epm addmapping 4101 --brand=sangoma --mac=005058500002 --
template=sangomatest --model=S700 --account=account1
Extension 4101 added successfully.

```

- List Extensions

```

# fwconsole epm listextensions ALL
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| Extension | Brand      | MAC          | Template          |
Model      | Account   | Expansion 1  | Rebuild | VPN          |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| 1012      | Grandstream | 000B82800001 | grandstream-test | GXP-
2170 | account1 |      | 1          |          |
| 4101      | sangoma     | 005058500003 | sangomatest      |
|          | account1   |          |          |          |
| 4102      | Yealink    | 001565211111 | yealink-base     | SIP-
T26P | account1 | EXP38-1    | 1          |          |
| 4103      | Sangoma    | 005058500001 | sangomatest      |
S500  | account1 | EXP100-1   | 1          | 4103 - 4103 (ID: 4) |
| 4104      | Sangoma    | 005058500002 | sangomatest      |
S700  | account1 |          | 1          |          |
+-----+-----+-----+-----+
+-----+-----+-----+-----+

# fwconsole epm listextensions ALL --detail
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| Extension | Brand      | MAC          | Template          |
Model      | Account   | Accessory    | Expansion 1 | Expansion 2 |
Expansion 3 | Expansion 4 | Expansion 5  | Expansion 6 | BLF

```

Substitution	BLF Label	Rebuild	VPN	Repeater 1
Repeater 2	Repeater 3	Multicell		
1012	Grandstream	000B82800001	grandstream-test	GXP-
2170	account1			
	1			
4101	sangoma	005058500003	sangomatest	
	account1			
4102	Yealink	001565211111	yealink-base	SIP-
T26P	account1	EXP38-1	None	
	1			
4103	Sangoma	005058500001	sangomatest	
S500	account1	EXP100-1	EXP100-2	EXP100-
3	EXP100-4	EXP100-5	EXP100-6	None
	1	4103 - 4103 (ID: 4)		
4104	Sangoma	005058500002	sangomatest	
S700	account1			
		1		

- List Templates

```
# fwconsole epm listtemplates
```

Brand	Template Name	Destination	Time Zone
Provision Type	Provision Address	Background	Firmware
Internal Default	External Default		
grandstream	grandstream-test	10.100.0.3	-06:00
TFTP	10.100.0.3	digit-on-phone.png	1.14

sangoma	sangomatest	10.100.0.3	-06:00	
HTTP	10.100.0.3	digit-on-phone.png	1.23	
yealink	yealink-base	10.100.0.3	-06:00	
TFTP	10.100.0.3	sangomapad.png	1.16	
Yes	Yes			
+-----+	+-----+	+-----+	+-----+	+-----+
+-----+	+-----+	+-----+	+-----+	+-----+
+-----+	+-----+	+-----+	+-----+	+-----+

- Reboot Devices

```
# fwconsole epm reboot 4103
Only works for Sangoma phones
Extension 4103 sent reboot command.

# fwconsole epm reboot sangomatest
Only works for Sangoma phones
Extension 4103 sent reboot command
Extension 4104 sent reboot command
Extension 4101 sent reboot command
```

- Rebuild Configuration Files

```
# fwconsole epm rebuild 4103
Extension 4103 rebuilt

# fwconsole epm rebuild sangomatest
Extension 4103 rebuilt
Extension 4104 rebuilt
Extension 4101 rebuilt
```

- Rebuild and Update Devices

```
# fwconsole epm rebuildupdate 4103
Extension 4103 rebuilt
Update command sent to 4103

# fwconsole epm rebuildupdate sangomatest
Extension 4103 rebuilt
Extension 4104 rebuilt
Extension 4101 rebuilt
Update command sent to 4103
Update command sent to 4104
Update command sent to 4101
```

- Remove Devices

```
# fwconsole epm remove 4103
4103 removed succesfully
```

- Update Devices

```
# fwconsole epm update 4103
Update command sent to 4103

# fwconsole epm update sangomatest
Update command sent to 4103
Update command sent to 4104
Update command sent to 4101
```

Notification

```
[root@freepbxdev1 faxpro]# fwconsole notification --help
Options:
--list           list notifications
--delete        Delete notification
--help (-h)     Display this help message
--json          format list as json
Help:
Notifications Help:
Usage: fwconsole notification [--list] [--delete module id]
```

- List Notifications

```
[root@freepbxdev1 faxpro]# fwconsole notification --list
+-----+-----+
+-----+-----+
| Module      | ID          |                               |
Text                                               |
+-----+-----+
+-----+-----+
| freepbx     | FW_UNSIGNED | You have 95 unsigned        |
modules                                           |
| freepbx     | NEWUPDATES  | There are 3 modules        |
available for online upgrades                     |
| cron_manager | EXECFAIL    | Cronmanager encountered 1  |
Errors                                             |
| dahdiconfig | etcdahdimodules | File /etc/dahdi/modules  |
is not owned by asterisk                         |
| dahdiconfig | etcdahdisystem.conf | File /etc/dahdi/system.  |
conf is not owned by asterisk                    |
```

```

| dahdiconfig | etcmodprobe.ddahdi.conf | File /etc/modprobe.d
/dahdi.conf is not owned by asterisk |
| freepbx     | modules_disabled         | You have 10 disabled
modules
| cidlookup   | noauth                   | OpenCNAM Requires
Authentication
| fax         | invalid_email            | Invalid Email for Inbound
Fax
| freepbx     | NEWMODS                  | 1 New modules are
available
| retrieve_conf | SYMLINKNOTICE            | Symlink Conflict
Resolved
| sipstationdid | ss7149223196            | SIPSTATION DID
routed
+-----+-----+
+-----+-----+

```

```

[root@freepbxdev1 faxpro]# fwconsole notification --list --json
[["freepbx","FW_UNSIGNED","You have 95 unsigned modules"],["freepbx","
NEWUPDATES","There are 3 modules available for online upgrades"],
["cron_manager","EXECFAIL","Cronmanager encountered 1 Errors"],
["dahdiconfig","etcdahdimodules","File \\/etc\\/dahdi\\/modules is not
owned by asterisk"],["dahdiconfig","etcdahdisystem.conf","File \\/etc\\
/dahdi\\/system.conf is not owned by asterisk"],["dahdiconfig","
etcmodprobe.ddahdi.conf","File \\/etc\\/modprobe.d\\/dahdi.conf is not
owned by asterisk"],["freepbx","modules_disabled","You have 10
disabled modules"],["cidlookup","noauth","OpenCNAM Requires
Authentication"],["fax","invalid_email","Invalid Email for Inbound
Fax"],["freepbx","NEWMODS","1 New modules are available"],
["retrieve_conf","SYMLINKNOTICE","Symlink Conflict Resolved"],
["sipstationdid","ss7149223196","SIPSTATION DID routed"]]

```

- Delete notification (by ID)

```

[root@freepbxdev1 faxpro]# fwconsole notification --delete
dahdiconfig etcdahdimodules
Deleting notification
Notification Deleted
[root@freepbxdev1 faxpro]# fwconsole notification --list
+-----+-----+
+-----+-----+
| Module      | ID                        |
Text                                                |
+-----+-----+
+-----+-----+
| freepbx     | FW_UNSIGNED              | You have 95 unsigned
modules
| freepbx     | NEWUPDATES               | There are 3 modules
available for online upgrades
| cron_manager | EXECFAIL                 | Cronmanager encountered 1

```

```

Errors
| dahdiconfig | etcdahdisystem.conf | File /etc/dahdi/system.
conf is not owned by asterisk
| dahdiconfig | etcmodprobe.ddahdi.conf | File /etc/modprobe.d
/dahdi.conf is not owned by asterisk
| freepbx | modules_disabled | You have 10 disabled
modules
| cidlookup | noauth | OpenCNAM Requires
Authentication
| fax | invalid_email | Invalid Email for Inbound
Fax
| freepbx | NEWMODS | 1 New modules are
available
| retrieve_conf | SYMLINKNOTICE | Symlink Conflict
Resolved
| sipstationdid | ss7149223196 | SIPSTATION DID
routed
+-----+-----+
+-----+-----+

```

Paging Pro

```

[root@freepbxdev1 restapps]# fwconsole pagingpro --help
Usage:
  pagingpro [-c|--clean] [-e|--execute="..."] [-l|--list=["..."]]
Options:
  --clean (-c)           Cleanup stale pages and add needed pages
  --execute (-e)         Execute a scheduled page now
  --list (-l)            List Scheduled Pages
  --help (-h)           Display this help message
  --quiet (-q)          Do not output any message
  --verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
output, 2 for more verbose output and 3 for debug

```

- Cleanup stale pages and add needed pages (This is also run as a cron in crontab every minute. There it's called: */1 * * * * /var/lib/asterisk/bin/pagepro-scheduler.php 2>&1 >/dev/null)
Run command with --verbose to get detailed data

```

[root@freepbxdev1 framework]# fwconsole pagingpro --clean --verbose
Found scheduled page for ID 500 occuring at 1466527800

```

- List active scheduled pages

```

[root@freepbxdev1 framework]# fwconsole pagingpro --list
+-----+-----+-----+
| Page ID | Time       | Cron Exists |
+-----+-----+-----+
| 500     | 1466527800 | Yes         |
+-----+-----+-----+

```


- List specific scheduled page by id

```
[root@freepbxdev1 framework]# fwconsole pagingpro --list 500
+-----+-----+-----+
| Page ID | Time          | Cron Exists |
+-----+-----+-----+
| 500     | 1466527800   | Yes         |
+-----+-----+-----+
```

- Execute a scheduled page immediately (for testing) using the paging pro page scheduler processes

```
[root@freepbxdev1 framework]# fwconsole pagingpro --execute 500
[root@freepbxdev1 framework]# <phones should be ringing>
```

Phone Apps

```
[root@freepbxdev1 restapps]# fwconsole phoneapps --help
Arguments:
  blf                Show BLF States: <ext> [<app>]
Options:
  --help (-h)        Display this help message
  --quiet (-q)        Do not output any message
  --verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
output, 2 for more verbose output and 3 for debug
```

- Get statuses of BLF lights for extension

```
[root@freepbxdev1 restapps]# fwconsole phoneapps blf 12000
+-----+-----+
| ID                | BLF Status |
+-----+-----+
| Call Forward      | Inactive   |
| Conference        | Inactive   |
| DND               | Inactive   |
| Follow Me         | Active     |
| Parking           | Inactive   |
| Queues            | Inactive   |
| Queue Agent       | Active     |
| Time Conditions   | Inactive   |
| Voicemail         | Active     |
| Call Flow         | Inactive   |
+-----+-----+
```

- Get status of BLF lights for single Application

```
[root@freepbxdev1 restapps]# fwconsole phoneapps blf 12000 "Parking"
+-----+-----+
| ID      | BLF Status |
+-----+-----+
| Parking | Inactive   |
+-----+-----+
```

- Get more information about said hint by adding "--verbose"

```
[root@freepbxdev1 restapps]# fwconsole phoneapps blf 12000 "Call
Flow" --verbose
+-----+-----+-----+
| ID          | BLF Status | Hint          |
+-----+-----+-----+
| Call Flow  | Inactive   | Custom:DAYNIGHT0 |
+-----+-----+-----+
```

pm2

Used to manage background/long running processes

```
[root@freepbxdev1 ~]# fwconsole pm2 --help
```

```

  _____
 | | _____ | | _ \ | | \ \ / /
 | | | | _____ | | | | | | \ v /
 | | | | | | _____ | | | | | | < > <
 | | | | | | | | _____ | | | | | | / . \
 | | | | | | | | | | _____ | | | | | | \ \ \

```

Usage:

```
pm2 [--list] [--stop="..."] [--restart="..."] [--delete="..."] [--update]
[--reload-logs] [--log="..."] [--lines="..."]
```

Options:

```
--list          List Process
--stop          Stop Process
--restart       Restart Process
--delete        Delete Process
--update        Save processes, kill PM2 and restore processes
--reload-logs   Reload all log file pointers
--log           Stream Logs from Process
--lines         How many lines to stream
--help (-h)     Display this help message
--quiet (-q)    Do not output any message
--verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
output, 2 for more verbose output and 3 for debug
--version (-V)  Display this application version
--ansi          Force ANSI output
--no-ansi       Disable ANSI output
--no-interaction (-n) Do not ask any interactive question
```

- List Processes

```
[root@freepbxdev1 ~]# fwconsole pm2 --list
```

Process Name	PID	Status	Restarts	Uptime
xmpp	8495	online	0	6 hours, 29 minutes
restapps	8665	online	0	6 hours, 29 minutes
zulu	8825	online	0	6 hours, 29 minutes
ucpnode	10048	online	0	6 hours, 28 minutes
qcallback	16218	online	30	5 hours, 54 minutes

- Stop Process

```
[root@freepbxdev1 ~]# fwconsole pm2 --stop xmpp
Process Stopped
[root@freepbxdev1 ~]# fwconsole pm2 --list
```

Process Name	PID	Status	Restarts	Uptime
xmpp	0	stopped	0	0
restapps	8665	online	0	6 hours, 30 minutes
zulu	8825	online	0	6 hours, 30 minutes
ucpnode	10048	online	0	6 hours, 29 minutes
qcallback	16218	online	30	5 hours, 55 minutes

- Restart Process

```
[root@freepbxdev1 ~]# fwconsole pm2 --restart xmpp
Process Restarted
[root@freepbxdev1 ~]# fwconsole pm2 --list
```

```

+-----+-----+
| Process Name | PID   | Status | Restarts | Uptime          |
CPU  | Mem   |
+-----+-----+-----+-----+-----+
+-----+-----+
| xmpp         | 8299  | online | 0         | 4 seconds       |
102% | 117.13MB |
| restapps    | 8665  | online | 0         | 6 hours, 30 minutes |
0%   | 47.63MB  |
| zulu        | 8825  | online | 0         | 6 hours, 30 minutes |
0%   | 94.29MB  |
| ucptime     | 10048 | online | 0         | 6 hours, 29 minutes |
0%   | 73.54MB  |
| qcallback   | 16218 | online | 30        | 5 hours, 56 minutes |
0%   | 29.59MB  |
+-----+-----+-----+-----+-----+
+-----+-----+

```

- Delete Process (Only removes and stops it from the Process Management Module, does not remove the module itself)

```

[root@freepbxdev1 ~]# fwconsole pm2 --delete xmpp
Process Stopped and Deleted
[root@freepbxdev1 ~]# fwconsole pm2 --list
+-----+-----+-----+-----+-----+
+-----+-----+
| Process Name | PID   | Status | Restarts | Uptime          |
CPU  | Mem   |
+-----+-----+-----+-----+-----+
+-----+-----+
| restapps    | 8665  | online | 0         | 6 hours, 31 minutes |
0%   | 47.63MB  |
| zulu        | 8825  | online | 0         | 6 hours, 31 minutes |
0%   | 94.29MB  |
| ucptime     | 10048 | online | 0         | 6 hours, 30 minutes |
0%   | 73.55MB  |
| qcallback   | 16218 | online | 30        | 5 hours, 56 minutes |
0%   | 29.59MB  |
+-----+-----+-----+-----+-----+
+-----+-----+

```

- Tail log (Used to tail logs for an application/process)

```

[root@freepbxdev1 ~]# fwconsole pm2 --log restapps --lines 20
OUT > ==> /var/log/asterisk/restapps_err.log <==
==> /var/log/asterisk/restapps_out.log <==
2017-04-12 01:34 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 01:34 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-presencestate] Setting button
linekeys:14 to IN_USE

```

```

2017-04-12 01:48 -04:00: [8665][1001-parking] Setting button linekeys:
13 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-findmefollow] Setting button
linekeys:11 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-donotdisturb] Setting button
linekeys:10 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 01:48 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-presencestate] Setting button
linekeys:14 to IN_USE
2017-04-12 02:02 -04:00: [8665][1001-parking] Setting button linekeys:
13 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-findmefollow] Setting button
linekeys:11 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-donotdisturb] Setting button
linekeys:10 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 02:02 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-presencestate] Setting button
linekeys:14 to IN_USE
2017-04-12 02:17 -04:00: [8665][1001-parking] Setting button linekeys:
13 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-findmefollow] Setting button
linekeys:11 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-donotdisturb] Setting button
linekeys:10 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-conferences] Setting button
linekeys:8 to NOT_INUSE
2017-04-12 02:17 -04:00: [8665][1001-callforward] Setting button
linekeys:7 to NOT_INUSE

```

- Update PM2 (Used to update the PM2 binary in memory, this will stop all applications to update the PM2 library!)

```

[root@freepbxdev1 ~]# fwconsole pm2 --update
Be sure to have the latest version by doing `npm install pm2@latest -
g` before doing this procedure.
[PM2] Saving current process list...
[PM2] Stopping PM2...
[PM2] Applying action deleteProcessId on app [all](ids: 1,2,3,4)
[PM2] [ucpnode](3)
[PM2] [restapps](1)
[PM2] [qcallback](4)
[PM2] [zulu](2)
[PM2] All processes have been stopped and deleted
[PM2] PM2 stopped
[PM2] Spawning PM2 daemon with pm2_home=/home/asterisk/.pm2
[PM2] Restoring processes located in /home/asterisk/.pm2/dump.pm2
[PM2] Process /usr/src/freepbx/restapps/restapps.php restored

```

```
[PM2] Process /usr/src/freepbx/zulu/node/index.js restored
[PM2] Process /usr/src/freepbx/ucpnode/node/index.js restored
[PM2] Process /usr/src/freepbx/vqplus/queue-callback.php restored
>>>>>>>> PM2 updated
```

```
App name   id  mode  pid   status  restart  uptime  cpu   mem
watching

qcallback  3   fork  9316  online  0         0s      46%   18.5 MB
disabled

restapps   0   fork  9289  online  0         0s      168%  33.4 MB
disabled

ucpnode    2   fork  9305  online  0         0s      59%   15.1 MB
disabled

zulu       1   fork  9295  online  0         0s      71%   17.8 MB
disabled
```

Use `pm2 show <id|name>` to get more details about an app
Update PM2 Process

- Reload Log file pointers (used during logrotates)

```
[root@uc-85436011 ~]# fwconsole pm2 --reload-logs
All logs reloaded
```

Setting

Used to alter Advanced Settings from the bash prompt:

```
[root@lgaetzdev2 ~]# fwconsole set --help
┌───────────┐ ┌───────────┐ ┌───────────┐ ┌───────────┐
│ ┌───┐ ┌───┐ ┌───┐ ┌───┐ │ ┌───┐ ┌───┐ ┌───┐ ┌───┐ │
│ │ ┌──┐ ┌──┐ ┌──┐ ┌──┐ │ │ ┌──┐ │ │ ┌──┐ \ v / │
│ │ ┌──┐ '┌──┐ ┌──┐ \ ┌──┐ ┌──┐ │ ┌──┐ < > < │
│ │ │ │ │ ┌──┐ ┌──┐ │ │ │ │ │ ┌──┐ / . \ │
│ └──┐ └──┐ \ ┌──┐ \ ┌──┐ └──┐ └──┐ ┌──┐ / ┌──┐ \ \ │
└───────────┘ └───────────┘ └───────────┘ └───────────┘

Usage:
  setting [-d|--dump] [-r|--reset] [-i|--import="..."] [-e|--export="..."]
  [args1] ... [argsN]
Aliases: set
Arguments:
  args
Options:
  --dump (-d)           Dump Configs
  --reset (-r)          Reset to default
  --import (-i)         Import settings from file
  --export (-e)         Export settings to file
  --help (-h)          Display this help message
  --quiet (-q)         Do not output any message
  --verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal
```

```
output,2 for more verbose output and 3 for debug
--version (-V)      Display this application version
--ansi              Force ANSI output
--no-ansi           Disable ANSI output
--no-interaction (-n) Do not ask any interactive question
```

System Admin

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin --help
Help:
Usage: fwconsole sysadmin action [arg arg...]
info : Display Activation info
activate : Activate system with provided Deployment ID
update : Refresh Activation information
```

- Get Activation Information

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin info
Activation Status:
Zend ID:          M:XXXXXX-XXXXXX-XXXXXX-XXXXXX
Lic File:         Present
Deployment:        freepbxdev1
```

- Update the license file on your installation

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin update
Updating license for freepbxdev1
Done!
No changes from original Licence.
```

- Activate system using your deploymentid

```
[root@freepbxdev1 faxpro]# fwconsole sysadmin activate <deploymentid>
```

Trunks

- interactive toggle

```
[root@pbx ~]# fwconsole trunks
Choose an ID to enable/disable
+---+-----+-----+-----+
| ID | TECH | Channel ID | Disabled |
+---+-----+-----+-----+
| 1  | pjsip | flowroute  | off      |
```

```

| 2 | sip | fpbx-1-QWm3eNC4UIDn | on |
| 3 | sip | fpbx-2-QWm3eNC4UIDn | off |
| 4 | pjsip | Telnyx | off |
+---+-----+-----+-----+
[1] 1
[2] 2
[3] 3
[4] 4
>

```

- specifying a trunk to enable or disable

```

[root@pbx ~]# fwconsole trunks --enable 2
Enabling Trunk 2

[root@pbx ~]# fwconsole trunks --disable 2
Disabling Trunk 2

```

After enabling/disabling trunks, a reload is required for changes to be applied to the system.

Validate

This script will check your system to the best of it's ability
It should not be relied upon for complete validation
Every hack is different. This just tries to discover and clean them up as best as possible
Upgrade the Framework module to ensure you are always running the latest version.

- Running Validate

```

[root@localhost freepbx-validate]# fwconsole validate
Downloading...
=====
=====
This script will check your system to the best of it's ability
It should not be relied upon for complete validation
Every hack is different. This just tries to discover and clean them
up as best as possible
Continue with this action?yes
Scanning All files...
[=====] 6 secs
Found /var/www/html/admin/modules/cxpanel/main.log that shouldn't be
there?
System must be cleaned up before proceeding to the next step

```

- Cleaning your system:

```

[root@localhost freepbx-validate]# fwconsole validate --clean
Downloading...

```



```

=====
=====
This script will check your system to the best of it's ability
It should not be relied upon for complete validation
Every hack is different. This just tries to discover and clean them
up as best as possible
Continue with this action?yes
Scanning All files...
[=====] 6 secs
Found /var/www/html/admin/modules/cxpanel/main.log that shouldn't be
there?
        Purged File

```

Localization

This uses <https://weblate.sangoma.com> to download and apply localization updates for modules. Normally when modules are published they update from weblate automatically however if you go through weblate and make changes and want to see them in your system you will need to use this utility.

Requests to weblate are limited to 100/day, without setting --authorization. See <https://weblate.sangoma.com/accounts/profile/#api> for more information. You will need to login to <https://weblate.sangoma.com/accounts/profile/#api> to get this token

```

[root@freepbxdev1 faxpro]# fwconsole localization --help
Usage:
  localization [options]

Options:
  --authorization=AUTHORIZATION  Authorization Token. Requests are
limited to 100/day, without setting this. See https://weblate.sangoma.com
/accounts/profile/#api for more information
  --list                          List Modules with localizations
  --update                        Update localizations, optionally
provide --module
  --module=MODULE                Module to work against, if not
provided all modules are assumed
  --language=LANGUAGE            The language code to work against, if
not provided all languages are assumed
  --ignorechange                 Ignore last change date, process
regardless

```

- List Local Localizations

```

[root@Andrews15 voicemail]# fwconsole localization --list
+-----+-----+
+-----+
-----+
| Module          | Rawname          |
Languages
|

```

```

+-----+-----+
+-----+
| Framework | framework |
bg_BG,cs,de_DE,es_ES,fa_IR,fr_FR,he_IL,hu_HU,it_IT,ja_JP,nl_NL,pt_BR,
pt_PT,ro_RO,ru_RU,sv_SE,uk_UA,vi,zh_CN |
| Preserve Accountcode | accountcodepreserve |
|
| Altaworx Skin | altaworxskin |
en_US
|
| AMD | amd |
es_ES
|
| Announcements | announcement |
bg_BG,cs,de_DE,es_ES,fa_IR,fr_FR,he_IL,hu_HU,it_IT,ja_JP,nb_NO,nl_NL,
pl,pt_BR,pt_PT,ru_RU,sv_SE,uk_UA,vi,zh_CN |
| PBX API | api |
es_ES
|
| Appointment Reminder | areminder |
de_DE,es_ES,fa_IR,
ja_JP
|
| Asterisk REST Interface Users | arimanager |
bg_BG,de_DE,es_ES,fa_IR,fr_FR,he_IL,pl,pt_BR,pt_PT,ru_RU,vi,
zh_CN |

```

- Update All Localizations

```

[root@freepbx ~]# fwconsole localization --update
Processing framework
    framework[bg_BG] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[zh_CN] is already up to date
    framework[cs] is already up to date
    framework[nl_NL] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[fr_FR] will be updated (2017-03-13T18:33:00Z < 2018-
05-07T18:33:00Z)
    framework[de_DE] will be updated (2018-10-22T20:01:00Z < 2018-
10-24T20:01:00Z)
    framework[he_IL] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[hu_HU] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[it_IT] will be updated (2008-11-09T19:43:00Z < 2018-
06-11T19:43:00Z)
    framework[ja_JP] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[fa_IR] last change date unknown unable to determine

```

```
last change. Skipping (Use --ignorechange to force)
    framework[pt_BR] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[pt_PT] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[ro_RO] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[ru_RU] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[es_ES] will be updated (2018-07-18T19:15:00Z < 2018-
07-26T19:15:00Z)
    framework[sv_SE] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[uk_UA] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[vi] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
Finished Processing framework
```

- Update Localizations by Module

```
[root@freepbx ~]# fwconsole localization --update --module framework
Processing framework
    framework[bg_BG] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[zh_CN] is already up to date
    framework[cs] is already up to date
    framework[nl_NL] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[fr_FR] will be updated (2017-03-13T18:33:00Z < 2018-
05-07T18:33:00Z)
    framework[de_DE] is already up to date
    framework[he_IL] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[hu_HU] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[it_IT] will be updated (2008-11-09T19:43:00Z < 2018-
06-11T19:43:00Z)
    framework[ja_JP] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[fa_IR] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[pt_BR] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[pt_PT] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[ro_RO] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[ru_RU] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
    framework[es_ES] will be updated (2018-07-18T19:15:00Z < 2018-
07-26T19:15:00Z)
```

```
framework[sv_SE] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
framework[uk_UA] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
framework[vi] last change date unknown unable to determine
last change. Skipping (Use --ignorechange to force)
Finished Processing framework
```

- Update Localizations by Language

```
[root@freepbx ~]# fwconsole localization --update --language it_IT
Processing framework
framework[it_IT] will be updated (2008-11-09T19:43:00Z < 2018-
06-11T19:43:00Z)
Finished Processing framework
```

- Update Localizations by Module & Language

```
[root@freepbx ~]# fwconsole localization --update --module framework
--language it_IT
Processing framework
framework[it_IT] will be updated (2008-11-09T19:43:00Z < 2018-
06-11T19:43:00Z)
Finished Processing framework
```