BFBC2 PC Remote Administration Protocol

This is the remote-administration protocol used by BFBC2 PC Server R32R30.

It is work-in-progress; features are first added to the game, and then controlling commands are added to the Remote Administration interface.

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About

This document describes how to communicate with the Remote Administration interface that is present in BFBC2 PC servers. The protocol is bidirectional, and allows clients to send commands to the server as well as the server to send events to clients.

The protocol is designed for machine-readability, not human-readability. It is the basis for all graphical remote administration tools.

Low-level protocol

Packet format int32

32-bit unsigned integer

1 byte	bits 70 of value
1 byte	bits 158 of value
1 byte	bits 2316 of value
1 byte	bits 3124 of value

Word

int32	Size	Number of bytes in word, excluding trailing null byte
char[]	Content	Word contents must not contain any null bytes
char	Terminator	Trailing null byte

Packet

int32	Sequence	Bit 31: 0 = The command	in this command,	/response pair originated on the server
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1 = The command in this command/response pair originated on the client

Bit 30: 0 = Request, 1 = Response

Bits 29..0: Sequence number (this is used to match requests/responses in a full duplex

transmission)

int32 Size Total size of packet, in bytes

int32 NumWords Number of words following the packet header

Word[N] Words N words

A packet cannot be more than 16384 bytes in size.

Protocol behaviour

The client communicates with the server using a request/response protocol. Each request contains a sequence number which grows monotonically, a flag which indicates whether the command originated on the client or the server, and one word containing the command name. In addition to this, a command can have zero or more arguments.

Every request must be acknowledged by a response. The response includes the the same sequence number, and the same origin flag. However, it has the response flag set.

Sequence numbers are unique within one server-client connection. Thus, the same sequence number can be used when the server is communicating with different clients.

Responses must contain at least one word. The first word can be one of the following:

OK - request completed successfully

UnknownCommand - unknown command

InvalidArguments - Arguments not appropriate for command

<other> - command-specific error

OK is the only response which signifies success. Subsequent arguments (if any) are command-specific.

The server is guaranteed to adher to this protocol specification. If the client violates the protocol, the server may close the connection without any prior notice.

Comments

The format of the Words portion of a packet is designed such that it shall be easy to split it into individual words in both C++ and Python. Any numerical arguments are always transferred in string form (not in raw binary form).

The protocol is designed to be fully bidirectional.

Parameter formats

String

An 8bit ASCII string. Must not contain any characters with ASCII code 0.

Boolean

Two possible values:

true

false

HexString

A stream of hexadecimal digits. The stream must always contain an even number of digits. Allowed characters are: 0123456789ABCDEF

Password

A password is from 0 up to 16 characters in length, inclusive. The allowed characters are: abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789

Filename

A filename is from 1 up to 240 characters in length, inclusive. The allowed characters are: abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789._-

Clantag

A clan tag is from 0 to an unknown number of characters in length. At the time of writing, it is unclear which the allowed characters are.

Player name

The "player name" (referred to as "Soldier name" in-game) is the persona name which the player chose when logging in to EA Online. One EA Account can have multiple personas.

A player has a name from 4 to 16 characters in length, inclusive. The allowed characters are:

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

0123456789

When a player is creating a new persona, it is compared against all other persona names; the new name must be unique. The following characters are ignored during the comparison:

- <space>

Team ID

An integer.

Team 0 is neutral. Depending on gamemode, there are up to 16 non-neutral teams, numbered 1..16.

Squad ID

An integer.

Squad 0 is "no squad". Depending on gamemode, there are up to 16 squads numbered 1..16. Note that squad ID are local within each team; that is, to uniquely identify a squad you need to specify both a Team ID and a Squad ID.

Player subset

Several commands – such as admin.listPlayers – take a player subset as argument.

A player subset is one of the following:

- all players on the server

team <team number: integer> - all players in the specified team

squad <team number: integer> <squad number: integer> - all players in the specified team+squad

player <player name: string> - one specific player

Timeout

Some commands, such as bans, take a timeout as argument.

A timeout is one of the following:

perm - permanent

round - until end of round seconds <number of seconds: integer> - number of seconds

Id-type

Some commands, such as bans, take an id-type as argument

An id-type is one of the following:

name - Soldier name
ip - IP address
guid - Player guid

Player info block

The standard set of info for a group of players contains a lot of different fields. To reduce the risk of having to do backwards-incompatible changes to the protocol, the player info block includes some formatting information.

<number of parameters> - number of parameters for each player

N x < parameter type: string> - the parameter types that will be sent below

<number of players> - number of players following

M x N x <parameter value> - all parameter values for player 0, then all parameter

values for player 1, etc

Current parameters:

name string - player name

guid GUID - player GUID, or "" if GUID is not yet known

teamId Team ID - player's current team squadId Squad ID - player's current squad

kills integer - number of kills, as shown in the in-game scoreboard deaths integer - number of deaths, as shown in the in-game scoreboard

score integer - score, as shown in the in-game scoreboard ping integer - ping (ms), as shown in the in-game scoreboard

Team scores

This describes the number of tickets, or kills, for each team in the current round.

<number of entries : integer> - number of team scores that follow

N x <score : integer> - score for all teams

<target score : integer> - when any team reaches this score, the match ends

Online state

This indicates how the game server and the Plasma backend are communicating. It is one of the following:

NotConnected - the game server is not connected to the Plasma backend

ConnectedToBackend - the game server is connected to the Plasma backend, but not

visible to players yet

AcceptingPlayers - the game server is connected to the Plasma backend, visible in

the server browser, and players can join the server

Setting context

To be able to store a setting in flexible way we have created a setting context. The setting can be stored as per level, per game mode or a setting the covers all contexts. This is the syntax for those three context types:

all The setting will be used on all maps and all game modes

gamemode <game mode> Where game mode is either RUSH, CONQUEST, SQDM, SQRUSH

This setting will override a setting that has context all

level <level name> Where level name is specified like this: levels/mp_XXX

This setting will override a setting that has context gamemode or all

Server Moderation Mode

A game server can be set to one of three moderation modes

free - normal, voice, and admin players can chat

moderated - voice, and admin players can chat
muted - only admin players can chat

Player Moderation Level

A player can have one out of four moderation levels:

muted - player can never chat

normal - player can chat when moderation mode is free

voice - player can chat when moderation mode is free/moderated

admin - player can always chat

GameModId

The server can be running either of two different mods:

BC2 - runs the base BC2 levels
VIETNAM - runs the Vietnam levels

IpPortPair

A string on the following format:

<IPv4 address>:<port number>

PunkBusterVersion

A string containing the PunkBuster version. If the PunkBuster module prints the following string: "PunkBuster Server: PunkBuster Server for BC2 (v1.763 | A1382 C2.220) Enabled\n", then the version string is "v1.763 | A1382 C2.220". Or "" if the PunkBuster version is not known.

Region

A string specifying the location of a game server. It can take on one of the following values:

<u>Value</u>	<u>Interpretation</u>
<u>NAm</u>	North America
<u>SAm</u>	South America
<u>AC</u>	<u>Antarctica</u>
<u>Afr</u>	<u>Africa</u>
<u>EU</u>	<u>Europe</u>
<u>Asia</u>	<u>Asia</u>
<u>OC</u>	<u>Oceania</u>

Or "" if the region is unknown.

Server events

Most commands require the client to be logged in. Before the client has logged in, only 'login.plainText', 'login.hashed', 'logout', 'version', 'serverInfo' and 'quit' commands are available.

Summary

Command	Description
player.onJoin	Player with name <soldier name=""> has joined the server</soldier>
player.onAuthenticated	Player with name <soldier name=""> has been authenticated + got GUID</soldier>
player.onLeave	with name <soldier name=""> has left the server</soldier>
player.onSpawn	Player with name <soldier name=""> has spawned in</soldier>
player.onKill	Player with name <killing name="" soldier=""> has killed <killed name="" soldier=""></killed></killing>
player.onChat	Chat message has been sent to a group of people
player.onKicked	Player with name <soldier name=""> has been kicked</soldier>
player.onSquadChange	Player might have changed squad
player.onTeamChange	Player might have changed team
punkBuster.onMessage	PunkBuster server has output a message
punkBuster.onVersion	PunkBuster server module has been (re)loaded as given version
server.onLoadingLevel	Level is loading
server.onLevelStarted	Level is started
server.onRoundOver	Round has ended
server.onRoundOverPlayers	Player stats at end-of-round
server.onRoundOverTeamScores	Team stats at end-of-round

Player events

Request: player.onJoin <soldier name: string>

Response: OK

Effect: Player with name < soldier name > has joined the server

Request: player.onAuthenticated <soldier name: string> <player GUID: guid>

Response: OK

Effect: Player with name <soldier name> has been authenticated, and has the given GUID

Request: player.onLeave <soldier name: string> <soldier info: player info block>

Response: OK

Effect: Player with name <soldier name> has left the server

and <soldier info> is the player info (with score etc) at the moment that the player leaves

Request: player.onSpawn <soldier name: string> <kit: string> <weapons: 3 x string> <gadgets: 3 x string>

Response: OK

Effect: Player with name <soldier name> has spawned in, with kit <kit> and

with <weapons> and <gadgets> selected

Request: player.onKill <killing soldier name: string> <killed soldier name: string> <weapon: string>

<headshot: boolean> <killer location: 3 x integer> <killed location: 3 x integes>

Response: OK

Effect: Player with name <killing soldier name> has killed <killed soldier name>

Suicide is indicated with the same soldier name for killer and victim.

If the server kills the player (through admin.killPlayer), it is indicated by showing the

killing soldier name as "Server".

The locations of the killer and the killed have a random error of up to 10 meters in each direction.

Request: player.onChat <source soldier name: string> <text: string> <target group: player subset>

Response: OK

Effect: Player with name <source soldier name> (or the server, or the server admin) has sent chat

message <text> to some people

Comment: The chat text is as represented before the profanity filtering

If <source soldier name> is "Server", then the message was sent from the server rather than from an

actual player

If sending to a specific player, and the player doesn't exist, then the target group will be "player" ""

Request: player.onKicked <soldier name: string> <reason: string>

Response: OK

Effect: Player with name < soldier name > has been kicked

Request: player.onSquadChange <soldier name: player name> <team: Team ID> <squad: Squad ID>

Response: OK

Effect: Player might have changed squad

Request: player.onTeamChange <soldier name: player name> <team: Team ID> <squad: Squad ID>

Response: OK

Effect: Player might have changed team

Misc

Request: punkBuster.onMessage <message: string>

Response: OK

Effect: PunkBuster server has output a message

Comment: The entire message is sent as a raw string. It may contain newlines and whatnot.

Request: punkBuster.onVersion < version: string>

Response: OK

Effect: PunkBuster server module has been loaded or reloaded

Comment: This is either due to the PunkBuster server module being loaded for the first time, or due to the

module being reloaded after a manual/automatic update.

Level/Round

Request: server.onLoadingLevel < level name: string> < roundsPlayed: int> < roundsTotal: int>

Response: OK

Effect: Level is loading

Request: server.onLevelStarted

Response: OK

Effect: Level is started

Request: server.onRoundOver <winning team: Team ID>

Response: OK

Effect: The round has just ended, and <winning team> won

Request: server.onRoundOverPlayers <end-of-round soldier info : player info block>

Response: OK

Effect: The round has just ended, and <end-of-round soldier info> is the final detailed player stats

Request: server.onRoundOverTeamScores <end-of-round scores: team scores>

Response: OK

Effect: The round has just ended, and <end-of-round scores> is the final ticket/kill/life count for each team

Client commands

Most commands require the client to be logged in. Before the client has logged in, only 'login.plainText', 'login.hashed', 'logout', 'version', 'serverInfo', 'listPlayers' and 'quit' commands are available.

Command Ogin.plainText <password> Iogin.hashed Retrives the salt, used in the hashed password login process Iogin.hashed <pre> Retrives the salt, used in the hashed password login process Iogin.hashed <passwordhard> Iogout Iogout Iogout Iogout Iogout IistPlayers <players> Return list of a group of players on the server, without GUIDs eventsEnabled <enabled> Reports game server type, and build ID listPlayers <players> Return list of a group of players on the server, without GUIDs eventsEnabled <enabled> Report which commands the server will send events to the current connection help Report which commands the server knows about admin.runscript <filename> Process file, runs script lines one-by-one, aborting processing upon error Durry for brief server info admin.say <message, duration,="" players=""> admin.say <message, players=""> Admin.say <message, players=""> Send a raw PunkBuster command to the PunkBuster server Send a chat message to a group of players admin.runNextRound Admin.restartRound Restart current round Admin.restartRound Restart current round Admin.restartMap Alias for admin.runNextRound Admin.restartMap Alias for admin.runNextRound Admin.supportedMaps <play list=""> Admin.setPlaylist Get Ket index of next level to be run Admin.setPlaylist Get He play list on the server admin.getPlaylist admin.getPlaylist Get the current play list for the server admin.getPlaylist Get the current play list for the server admin.getPlaylist Get the current play list for the server admin.kilPlayer <soldier name,="" reason=""> Admin.kilPlayer <name> Kilk player <soldier name=""> from server admin.kilPlayer <name> Kilk player <soldier name=""> from server admin.killPlayer <name> Kill a player without scoring effects Admin.server text-the medication mede for the server admin.ker the the medi</name></soldier></name></soldier></name></soldier></play></message,></message,></message,></filename></enabled></players></enabled></players></passwordhard></pre></password>		
login.plainText <password></password>		
login.hashedRetrives the salt, used in the hashed password login processlogin.hashed <passwordhard>Sends a hashed password to the server, in an attempt to log inlogoutLogout from game serverquitDisconnect from serverversionReports game server type, and build IDlistPlayers <players>Return list of a group of players on the server, without GUIDseventsEnabled <enabled>Set whether or not the server will send events to the current connectionhelpReport which commands the server knows aboutadmin.runscript <filename>Process file, runs script lines one-by-one, aborting processing upon errorpunkBuster.pb_sv_cmmand <command/>Send a raw PunkBuster command to the PunkBuster serverserverinfoserverInfoQuery for brief server infoadmin.yell <message, duration,="" players="">Siplay a message, very visibly on players' screensadmin.runNextRoundSwitch to next round, without ending currentadmin.restartRoundRestart current roundadmin.endRound <teamid>End current round, declaring the specified team as winnersadmin.runNextLevelAlias for admin.runNextRoundadmin.restartMapAlias for admin.restartRoundadmin.currentLevelReturn current level namemapList.nextLevelIndex [index: integer]Get/Set index of next level to be runadmin.supportedMaps <play list="">Retrieve maplist of maps supported in this play listadmin.getPlaylistGet the current play list for the serveradmin.getPlaylistsGet the current play list for the serveradmin.kickPlayer <soldier name,="" reaso<="" td=""><td></td><td>·</td></soldier></play></teamid></message,></filename></enabled></players></passwordhard>		·
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admin.endRound <teamid> End current round, declaring the specified team as winners Alias for admin.runNextRound admin.restartMap Alias for admin.restartRound admin.currentLevel Return current level name mapList.nextLevelIndex [index: integer] Get/Set index of next level to be run admin.supportedMaps <play list=""> Retrieve maplist of maps supported in this play list admin.setPlaylist <name> Set the play list on the server admin.getPlaylist Get the current play list for the server admin.kickPlayer <soldier name,="" reason=""> Admin.listPlayers <players> Return list of a group of players on the server admin.movePlayer <name, forcekill="" squadid,="" teamid,=""> Move a player to another team and squad admin.killPlayer <name> Kill a player without scoring effects</name></name,></players></soldier></name></play></teamid>	admin.runNextRound	Switch to next round, without ending current
admin.runNextLevel Alias for admin.runNextRound admin.restartMap Alias for admin.restartRound admin.currentLevel Return current level name mapList.nextLevelIndex [index: integer] Get/Set index of next level to be run admin.supportedMaps <play list=""> Retrieve maplist of maps supported in this play list admin.setPlaylist <name> Set the play list on the server admin.getPlaylist Get the current play list for the server admin.kickPlayer <soldier name,="" reason=""> Kick player <soldier name=""> from server admin.listPlayers <players> Return list of a group of players on the server admin.movePlayer <name, forcekill="" squadid,="" teamid,=""> Move a player to another team and squad admin.killPlayer <name> Kill a player without scoring effects</name></name,></players></soldier></soldier></name></play>	admin.restartRound	Restart current round
admin.restartMap Alias for admin.restartRound Return current level name mapList.nextLevelIndex [index: integer] Get/Set index of next level to be run admin.supportedMaps <play list=""> Retrieve maplist of maps supported in this play list admin.setPlaylist <name> Set the play list on the server admin.getPlaylist Get the current play list for the server admin.getPlaylists Get the play lists for the server admin.kickPlayer <soldier name,="" reason=""> Alias for admin.restartRound Return current level name Retrieve maplist of maps supported in this play list Get the play list on the server Admin.getPlaylists Get the play lists for the server Return list of a group of players on the server admin.movePlayer <name, forcekill="" squadid,="" teamid,=""> Move a player to another team and squad admin.killPlayer <name> Kill a player without scoring effects</name></name,></soldier></name></play>	admin.endRound <teamid></teamid>	End current round, declaring the specified team as winners
admin.currentLevel mapList.nextLevelIndex [index: integer] admin.supportedMaps <play list=""> admin.supportedMaps <play list=""> Admin.setPlaylist < name> Admin.getPlaylist Admin.g</play></play>	admin.runNextLevel	Alias for admin.runNextRound
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admin.movePlayer <name, forcekill="" squadid,="" teamid,=""> Move a player to another team and squad admin.killPlayer <name> Kill a player without scoring effects</name></name,>	admin.kickPlayer < soldier name, reason>	Kick player <soldier name=""> from server</soldier>
admin.killPlayer <name> Kill a player without scoring effects</name>	admin.listPlayers <players></players>	Return list of a group of players on the server
	admin.movePlayer < name, teamID, squadII	D, forceKill> Move a player to another team and squad
vars toxtChatModerationMode [moderation mode] set the current toxt-chat moderation mode for the server	admin.killPlayer < name>	Kill a player without scoring effects
vars. texteriativiouer ation vioue [moderation mode] set the current text-chat moderation mode for the server	vars.textChatModerationMode [moderatio	n mode] set the current text-chat moderation mode for the server
vars.textChatSpamTriggerCount [count] Set the number of text messages required to trigger chat spam filter	vars.textChatSpamTriggerCount [count]	Set the number of text messages required to trigger chat spam filter
vars.textChatSpamDetectionTime [time] Set the length of the chat-spam detection time window	vars.textChatSpamDetectionTime [time]	Set the length of the chat-spam detection time window
vars.textChatSpamCoolDownTime [time] Set the length of the chat-spam cooldown time	vars.textChatSpamCoolDownTime [time]	
textChatModerationList.load Load list of player-moderation levels from file	-	
textChatModerationList.save Save list of player moderation levels to file	textChatModerationList.save	
textChatModerationList.add <moderationlevel> <name> Add player to the moderation list</name></moderationlevel>	textChatModerationList.add < moderationle	evel> <name> Add player to the moderation list</name>

banList.load Load list of banned players/IPs/GUIDs from file banList.save

textChatModerationList.remove <name>

textChatModerationList.list [startOffset]

text Chat Moderation List. clear

Save list of banned players/IPs/GUIDs to file

banList.add <id-type, id, timeout, reason> Add player/IP/GUID to ban list for a certain amount of time

Clears moderation list

Remove player from moderation list

Return a section of the moderation list

banList.remove <id-type, id> Remove player/IP/GUID from ban list

banList.clear Clears ban list

banList.list [startIndex] Return part of the list of banned players/IPs/GUIDs

reservedSlots.load Load list of reserved soldier names from file reservedSlots.save Save list of reserved soldier names to file

reservedSlots.addPlayer <name> Add <name> to list of players who can use the reserved slots

reservedSlots.removePlayer <name> Remove <name> from list of players who can use the reserved slots

reservedSlots.clear Clear reserved slots list

reservedSlots.list Retrieve list of players who can utilize the reserved slots

mapList.load Load list of map names from file

mapList.save Save maplist to file mapList.list [rounds] Retrieve current maplist

mapList.clear Clears maplist

mapList.remove <index> Remove map from list

mapList.append <name, rounds> Add map with name <name> to end of maplist

mapList.insert <index, name, rounds> Add map with name at the specified index to the maplist

vars.serverName [name] Set the server name

vars.adminPassword [password] Set the admin password for the server vars.gamePassword [password] Set the game password for the server vars.punkBuster [enabled] Set if the server will use PunkBuster or not

vars.hardCore Set hardcore mode vars.ranked Set ranked or not

vars.rankLimit [rank] Set the highest rank allowed on to the server

vars.teamBalance [enabled] Set if the server should autobalance

vars.friendlyFire [enabled] Set if the server should allow team damage

vars.currentPlayerLimit Retrieve the current maximum number of players

vars.maxPlayerLimit Retrieve the server-enforced maximum number of players

vars.playerLimit [nr of players] Set desired maximum number of players

vars.bannerUrl [url] Set banner url

vars.serverDescription [description]Set server descriptionvars.killCam [enabled]Set if killcam is enabledvars.miniMap [enabled]Set if minimap is enabled

vars.crossHair [enabled]vars.3dSpotting [enabled]Set if crosshair for all weapons is enabledvars.3dSpotting [enabled]Set if spotted targets are visible in the 3d-worldvars.miniMapSpotting [enabled]Set if spotted targets are visible on the minimap

vars.thirdPersonVehicleCameras [enabled] ToDo

vars.teamKillCountForKick [count] Set number of teamkills allowed during a round

vars.teamKillValueForKick [count] Set max kill-value allowed for a player before he/she is kicked

vars.teamKillValueIncrease [count] Set kill-value increase for a teamkill vars.teamKillValueDecreasePerSecond [count] Set kill-value decrease per second

vars.idleTimeout [time] Set idle timeout

vars.profanityFilter [enabled] Set if profanity filter is enabled

levelVars.set <context> <var name> <value> Set a level-specific variable in a specific context levelVars.get <context> <var name> Get a level-specific variable in a specific context levelVars.evaluate <var name> Get a level-specific variable in a specific context

levelVars.clear <context> [var name] Clear some or all level-specific variables

levelVars.list <context> [var name] List level-specific variables that match the context & variable name

Misc

Request: login.plainText <password: string>

Response: OK - Login successful, you are now logged in regardless of prior status

Response: InvalidPassword - Login unsuccessful, logged-in status unchanged
Response: PasswordNotSet - Login unsuccessful, logged-in status unchanged

Response: InvalidArguments

Effect: Attempt to login to game server with password <password>

Comments: If you are connecting to the admin interface over the internet, then use login.hashed instead to avoid

having evildoers sniff the admin password

Request: login.hashed

Response: OK <salt: HexString> - Retrieved salt for the current connection

Response: PasswordNotSet - No password set for server, login impossible

Response: InvalidArguments

Effect: Retrieves the salt, used in the hashed password login process

Comments: This is step 1 in the 2-step hashed password process. When using this people cannot sniff your admin

password.

Request: login.hashed <passwordHash: HexString>

Response: OK - Login successful, you are now logged in regardless of prior status

Response: PasswordNotSet - No password set for server, login impossible
Response: InvalidPasswordHash - Login unsuccessful, logged-in status unchanged

Response: InvalidArguments

Effect: Sends a hashed password to the server, in an attempt to log in

Comments: This is step 2 in the 2-step hashed password process. When using this people cannot sniff your admin

password.

Request: logout

Response: OK - You are now logged out regardless of prior status

Response: InvalidArguments

Effect: Logout from game server

Request: quit Response: OK

Response: InvalidArguments

Effect: Disconnect from server

Request: version

Response: OK BFBC2 <version>
Response: InvalidArguments

Effect: Reports game server type, and build ID

Comments: Game server type and build ID uniquely identify the server, and the protocol it is running.

Request: listPlayers <players: player subset>

Response: OK <player info>

Response: InvalidArguments

Effect: Return list of all players on the server, but with zeroed out GUIDs

Request: eventsEnabled [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set whether or not the server will send events to the current connection

Request: help

Response: OK <all commands availble on server, as separate words>

Response: InvalidArguments

Effect: Report which commands the server knows about

Request: admin.runScript <filename: filename>

Response: OK

Response: InvalidArguments

Response: InvalidFileName - The filename specified does not follow filename rules

Response: ScriptError < line > coriginal error...> - Script failed at line < line >, with the given error

Effect: Process file, executing script lines one-by-one, aborting processing upon error

Request: punkBuster.pb_sv_command < command: string>

Response: OK - Command sent to PunkBuster server module

Response: InvalidArguments

Response: InvalidPbServerCommand - Command does not begin with "pb_sv_"

Effect: Send a raw PunkBuster command to the PunkBuster server

Comment: The entire command is to be sent as a single string. Don't split it into multiple words.

Query

Request: serverInfo

Response: OK <serverName: string> <current playercount: integer> <max playercount: integer>

<current gamemode: string> <current map: string>

<roundsPlayed: integer> <roundsTotal: string> <scores: team scores> <onlineState: online state>

<ranked: boolean> <punkBuster: boolean> <hasGamePassword: boolean>

<serverUpTime: seconds> <roundTime: seconds> <gameMod: GameModId> <mapPack: integer>

<externalGameIpAndPort: IpPortPair> <punkBusterVersion: PunkBusterVersion>

<joinQueueEnabled: boolean> <region: Region>

Response: InvalidArguments

Effect: Query for brief server info.

Comments: This command can be performed without being logged in.

Some of the arguments will be empty or zero when the server isn't fully up and running or between

levels.

Communication

Request: admin.yell <message: string> <duration [in ms]: integer> <players: player subset>

Response: OK

Response: InvalidArguments
Response: TooLongMessage
Response: InvalidDuration

Effect: Display a message, very visibly on players' screens, for a certain amount of time. The duration must be

more than 0 and at most 60000 ms. The message must be less than 100 characters long.

Request: admin.say <message: string> <players: player subset>

Response: OK

Response: InvalidArguments
Response: TooLongMessage

Effect: Send a chat message to players. The message must be less than 100 characters long.

Level

Request: admin.runNextRound

Response: OK

Response: InvalidArguments

Effect: Switch to next round

Comments: Always successful

Request: admin.restartRound

Response: OK

Response: InvalidArguments

Effect: Restart the current round

Request: admin.endRound <winner: Team ID>

Response: OK

Response: InvalidArguments

Effect: End the current round, declaring <winner> as the winning team

Request: admin.runNextLevel

Comment: Alias for admin.runNextRound

Request: admin.restartMap

Comment: Alias for admin.restartRound

Request: admin.currentLevel

Response: OK <name>

Response: InvalidArguments

Effect: Return current level name

Request: mapList.nextLevelIndex [index: integer]

Response: OK

Response: InvalidArguments

Response: InvalidIndex - Level index not available in server map list (for set operation only)

Effect: Get/set index of next level to be run

Request: admin.supportedMaps <play list: string>

Response: OK <map names>
Response: InvalidArguments

Response: InvalidPlaylist <play list> - Play list doesn't exist on server

Effect: Retrieve maplist of maps supported in this play list

Request: admin.setPlaylist <name: string>

Response: OK - Play list was changed

Response: InvalidArguments

Response: InvalidPlaylist - Play list doesn't exist. Should be RUSH, CONQUEST, SQDM or SQRUSH.

Effect: Set the play list on the server.

Comments: Will only use maps supported for this play list. So the mapList might be invalid

Delay: Change occurs after end of round

Request: admin.getPlaylist
Response: OK <play list>
Response: InvalidArguments

Effect: Get the current play list for the server

Request: admin.getPlaylists
Response: OK <play lists>
Response: InvalidArguments

Effect: Get the play lists for the server

Manage players

Request: admin.kickPlayer <soldier name: player name> [reason: string]
Response: OK - Player did exist, and got kicked

Response: InvalidArguments

Response: PlayerNotFound - Player name doesn't exist on server

Effect: Kick player < soldier name > from server

Comments: Reason text is optional. Default reason is "Kicked by administrator".

Request: admin.listPlayers <players: player subset>

Response: OK <player info>
Response: InvalidArguments

Effect: Return list of all players on the server

Request: admin.movePlayer <name: player name> <teamId: Team ID> <squadId: Squad ID> <forceKill: boolean>

Response: OK

Response: InvalidArguments
Response: InvalidTeamId
Response: InvalidSquadId
Response: InvalidPlayerName
Response: InvalidForceKill

Response: PlayerNotDead - Player is alive and forceKill is false

Response: SetTeamFailed
Response: SetSquadFailed

Effect: Move a player to another team and/or squad

Comment: Only works if player is dead. This command will kill player if forceKill is true

Request: admin.killPlayer < name: player name>

Response: OK

Response: InvalidArguments
Response: InvalidPlayerName
Response: SoldierNotAlive

Effect: Kill a player without any stats effect

Text chat moderation

Request: vars.textChatModerationMode [moderation mode: Server Moderation Mode]

Response: OK - for set operation
Response: InvalidArguments - for set operation
Response: OK <moderation mode> - for get operation

Effect: Set the current text-chat moderation mode for the server

Request: vars.textChatSpamTriggerCount [count: integer]
Response: OK - for set operation
Response: OK <count> - for get operation

Effect: Set the number of text messages required to trigger chat spam filter

Request: vars.textChatSpamDetectionTime [time [in seconds]: integer]

Response: OK - for set operation
Response: InvalidArguments - for set operation

Response: OK <count> - for get operation

Effect: Set the length of the chat-spam detection time window

Request: vars.textChatSpamCoolDownTime [time [in seconds]: integer]

Response: OK - for set operation Response: InvalidArguments - for set operation OK <count> - for get operation Response: Effect: Set the length of the chat-spam cooldown time

textChatModerationList.load Request:

OK Response:

InvalidArguments Response:

InvalidEntry Response: - Invalid entry in file

TooManyEntries - Max number of entries exceeded Response:

Response: AccessError - Could not read from file

Effect: Load list of player-moderation levels from file

textChatModerationList.save Request:

Response: OK

Response: InvalidArguments

AccessError - Could not save to file Response:

Effect: Save list of player-moderation levels to file

textChatModerationList.add <moderationlevel: Player Moderation Level> <name: string> Request:

Response: OK

Response: InvalidArguments

Full Response:

Effect: Add player to the moderation list

Comments: If the player already is present, its moderation level setting will be changed

Players not in the list are considered to have moderation level "normal"

Adding a player with moderation level "normal" will in effect remove that player instead

Request: textChatModerationList.remove <name: string>

OK Response:

Response: InvalidArguments

Response: NotFound - Player not found in moderation list; list unchanged

Effect: Remove player from moderation list

Request: textChatModerationList.clear

Response: OK

Response: InvalidArguments Effect: Clears moderation list Request: textChatModerationList.list [startOffset : integer]

Response: OK < moderation entries>

Response: InvalidArguments

Effect: Return a section of the moderation list.

Comment: The list starts with a number telling how many entries the call returns.

After that, 2 words (moderation level, name) are received for every player in the list.

If no startOffset is supplied, it is assumed to be 0. At most 100 entries will be returned by the command.

To retrieve the full list, perform several textChatModerationList.list calls with increasing offset

until the server returns 0 entries.

Banning

Request: banList.load

Response: OK

Response: InvalidArguments
Response: InvalidIdType
Response: InvalidBanType

Response: InvalidTimeStamp - A time stamp could not be read
Response: IncompleteBan - Incomplete ban entry at end of file

Response: AccessError - Could not read from file

Effect: Load list of banned players/IPs/GUIDs from file

Comment: 5 lines (Id-type, id, ban-type, time and reason) are retrieved for every ban in the list.

Entries read before getting InvalidIdType, InvalidBanType, InvalidTimeStamp and IncompleteBan

is still loaded.

Request: banList.save

Response: OK

Response: InvalidArguments

Response: AccessError - Could not save to file

Effect: Save list of banned players/IPs/GUIDs to file

Comment: 5 lines (Id-type, id, ban-type, time and reason) are stored for every ban in the list.

Every line break has windows "\r\n" characters.

Request: banList.add <id-type: id-type> <id: string> <timeout: timeout> [reason: string]

Response: OK

Response: InvalidArguments

Response: BanListFull

Effect: Add player to ban list for a certain amount of time

Comments: Adding a new player/IP/GUID ban will replace any previous ban for that player/IP/GUID

timeout can take three forms:

perm - permanent [default] round - until end of round

seconds <integer> - number of seconds until ban expires

Id-type can be any of these

name – A soldier name ip – An IP address guid – A player guid

Id could be either a soldier name, ip address or guid depending on id-type. Reason is optional and defaults to "Banned by admin"; max length 80 chars.

Request: banList.remove <id-type: id-type> <id: string>

Response: OK

Response: InvalidArguments

Response: NotFound - Id not found in banlist; banlist unchanged

Effect: Remove player/ip/guid from banlist

Request: banList.clear

Response: OK

Response: InvalidArguments Effect: Clears ban list

Request: banList.list [startOffset : integer]

Response: OK <player ban entries>

Response: InvalidArguments

Effect: Return a section of the list of banned players/IPs/GUIDs.

Comment: The list starts with a number telling how many bans the call returns.

After that, 5 words (Id-type, id, ban-type, time and reason) are received for every ban in the list.

If no startOffset is supplied, it is assumed to be 0.

At most 100 entries will be returned by the command.

To retrieve the full list, perform several banList.list calls with increasing offset until the

server returns 0 entries.

(There is an unsolved synchronization problem hidden there: if a ban expires during this process, then one other entry will be skipped during retrieval. There is no known workaround for this.)

Reserved slots

Request: reservedSlots.load

Response: OK

Response: InvalidArguments

Response: AccessError - File not found; internal reserved slots list is now empty

Effect: Load list of soldier names from file. This is a file with one soldier name per line.

If loading succeeds, the reserved slots list will get updated. If loading fails, the reserved slots list will remain unchanged.

Request: reservedSlots.save

Response: OK

Response: InvalidArguments

Response: AccessError - Error while saving

Effect: Save list of reserved soldier names to file. This is a file with one soldier name per line.

Comment: If saving fails, the output file may be unchanged or corrupt.

Request: reservedSlots.addPlayer <soldier name: player name>

Response: OK

Response: InvalidArguments
Response: InvalidName

Response: Full

Response: PlayerAlreadyInList - Player is already in the list; reserved slots list unchanged

Effect: Add <soldier name> to list of players who can use the reserved slots.

Request: reservedSlots.removePlayer < soldier name: player name>

Response: OK

Response: InvalidArguments

Response: PlayerNotInList - Player does not exist in list; reserved slots list unchanged

Effect: Remove <soldier name> from list of players who can use the reserved slots.

Request: reservedSlots.clear

Response: OK

Response: InvalidArguments

Effect: Clear reserved slots list

Request: reservedSlots.list
Response: OK <soldier names>
Response: InvalidArguments

Effect: Retrieve list of players who can utilize the reserved slots

Maplist

Request: mapList.load

Response: OK - Maplist loaded

Response: InvalidArguments

Response: AccessError - File not found, internal maplist is now empty

Response: InvalidPlaylist - Play list doesn't exist. Should be RUSH, CONQUEST, SQDM or SQRUSH.

Response: InvalidMapName <name> - Map with name <name> doesn't exist in playlist/gamemode

Effect: Load list of map names from file. This is a file with one map name per line.

Comments: If loading succeeds, the maplist will get updated.

If loading fails, the maplist will remain unchanged.

Request: mapList.save

Response: OK - Maplist saved

Response: InvalidArguments

Response: AccessError - Error while saving, on-disk maplist file possibly corrupted now

Effect: Save maplist to file. This is a file with one map name per line. Comments: If saving fails, the output file may be unchanged or corrupt.

Every line break has windows "\r\n" characters.

Request: mapList.list [rounds]

Response: OK <N x map names> - map list, without round info

Response: OK <N x (map name, rounds)> - map list, with round info

Response: InvalidArguments

Effect: Retrieve current maplist (with number of rounds for each if round is specified as option)

Comments: If the user hasn't specified the number of rounds explicitly, the number of rounds will be shown

as 0; the default number of rounds is currently 2 but may change in the future

Request: mapList.clear

Response: OK

Response: InvalidArguments Effect: Clears maplist

Comments: If server attempts to switch level while maplist is cleared, nasty things will happen

Request: mapList.remove <index: integer>

Response: OK - Map removed from list

Response: InvalidArguments

Response: InvalidIndex - Index doesn't exist in server map list

Effect: Remove map from list.

Request: mapList.append <name: string> <rounds: int32>
Response: OK - Map appended to list

Response: InvalidArguments

Response: InvalidMapName - Map doesn't exist on server

Effect: Add map with name <name> to end of maplist

Comment: Remember to specify playlist before adding maps

Rounds is an optional argument. If it isn't specified or 0 it will use game mode default.

Request: mapList.insert <index: integer> <name: string> [rounds: int32]

Response: OK - Map inserted to list

Response: InvalidArguments

Response: InvalidMapName - Map doesn't exist on server or negative index

Effect: Add map with name at the specified index to the maplist

Comment: Rounds is an optional argument. If it isn't specified or 0, game mode default will be used.

Variables

Request: vars.serverName [name: string]

Response: OK - for set operation

Response: OK <name> - for get operation

Response: InvalidArguments

Response: TooLongName - for set operation

Effect: Set server name

Request: vars.adminPassword [password: password]
Response: OK - for set operation
Response: OK <password> - for get operation

Response: InvalidArguments

Response: InvalidPassword - password does not conform to password format rules

Effect: Set the admin password for the server, use it with an empty string("") to reset

Request: vars.gamePassword [password: password]
Response: OK - for set operation
Response: OK <password> - for get operation

Response: InvalidArguments

Response: InvalidPassword - password does not conform to password format rules

Response: InvalidConfig - password can't be set if ranked is enabled

Effect: Set the game password for the server, use it with an empty string("") to reset

Request: vars.punkBuster [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Response: InvalidConfig - punkbuster can't be disabled if ranked is enabled

Response: StartupOnlyCallNotAllowed - this command can only be executed from startup.txt

Effect: Set if the server will use PunkBuster or not

Request: vars.hardCore [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set hardcore mode

Delay: Works after map change

Request: vars.ranked [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response InvalidArguments

Response: StartupOnlyCallNotAllowed - this command can only be executed from startup.txt

Effect: Set ranked or not. If enabled: game password will be removed and punkbuster enabled

Request: vars.rankLimit <rank: integer> ##QA: Says 'OK' but still allow higher ranked players to join

Response: OK - for set operation
Response: OK <rank: integer> - for get operation

Response: InvalidArguments

Effect: Set the highest rank allowed on to the server (integer value).

Comment: To disable rank limit use -1 as value

Request: vars.teamBalance [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if the server should autobalance

Request: vars.friendlyFire [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Response: LevelNotLoaded - for set operation Effect: Set if the server should allow team damage

Delay: Works after round restart

Comment: Not available during level load.

Request: vars.currentPlayerLimit

Response: OK <nr of players: integer> - for get operation

Response: ReadOnly - if you try to send any arguments

Response: InvalidArguments

Effect: Retrieve the current maximum number of players

Comment: This value is computed from all the different player limits in effect at any given moment

Request: vars.maxPlayerLimit

Response: OK <nr of players: integer> - for get operation

Response: ReadOnly - if you try to send any arguments

Response: InvalidArguments

Effect: Retrieve the server-enforced maximum number of players

Comment: Setting the user-defined maximum number of players higher than this has no effect

Request: vars.playerLimit [nr of players: integer]

Response: OK - for set operation

Response: OK <nr of players: integer> - for get operation

Response: InvalidArguments

Response: InvalidNrOfPlayers - Player limit must be in the range 8..32

Effect: Set desired maximum number of players

Comment: The effective maximum number of players is also effected by the server provider, and the game

engine

Request: vars.bannerUrl [url: string]

Response: OK - for set operation
Response: OK <url: string> - for get operation

Response: InvalidArguments

Response: TooLongUrl - for set operation

Effect: Set banner url

Comment: The banner url needs to be max 63 characters long

The banner needs to be a 512x64 picture smaller than 127kb, in .PNG format

Example: admin.setBannerUrl http://www.example.com/banner.png

Request: vars.serverDescription <description: string>
Response: OK - for set operation
Response: OK <description: string> - for get operation

Response: InvalidArguments

Response: TooLongDescription - for set operation

Effect: Set server description

Comment: The description needs to be less than 400 characters long; the character '|' acts as line-break char

Request: vars.killCam [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if killcam is enabled

Delay: Works after map switch

Request: vars.miniMap [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if minimap is enabled Delay: Works after map switch

Request: vars.crossHair [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if crosshair for all weapons is enabled

Delay: Works after map switch

Request: vars.3dSpotting [enabled: boolean]

Response: OK - for set operation

Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if spotted targets are visible in the 3d-world

Delay: Works after map switch

Request: vars.miniMapSpotting [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if spotted targets are visible on the minimap

Delay: Works after map switch

Request: vars.thirdPersonVehicleCameras [enabled: boolean]
Response: OK - for set operation

Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: <todo>

Delay: Works after map switch

Comments: (Unconfirmed) Works but is bugged. If you change the setting and someone is in a

vehicle in 3rd person view when at end of round, that player will be stuck in 3rd person view

even though the setting should only allow 1st person view.

Request: vars.teamKillCountForKick [count: integer]

Response: OK - for set operation
Response: OK <count: integer> - for get operation

Response: InvalidArguments

Effect: Set number of teamkills allowed during one round, before the game kicks the player in question

Set to 0 to disable kill counting

Delay: Instantaneous

Request: vars.teamKillValueForKick [count: integer]

Response: OK - for set operation
Response: OK <count: integer> - for get operation

Response: InvalidArguments

Effect: Set the highest kill-value allowed before a player is kicked for teamkilling

Set to 0 to disable kill value mechanism

Delay: Instantaneous

Request: vars.teamKillValueIncrease [count: integer]

Response: OK - for set operation
Response: OK <count: integer> - for get operation

Response: InvalidArguments

Effect: Set the value of a teamkill (adds to the player's current kill-value)

Delay: Instantaneous

Request: vars.teamKillValueDecreasePerSecond [count: integer]

Response: OK - for set operation
Response: OK <count: integer> - for get operation

Response: InvalidArguments

Effect: Set how much every player's kill-value should decrease per second

Delay: Instantaneous

Request: vars.idleTimeout [time: seconds]

Response: OK - for set operation
Response: OK <time: seconds> - for get operation

Response: InvalidArguments

Effect: Set how many seconds a player can be idle before he/she is kicked from server

Set to 0 to disable idle kick

Delay: Instantaneous

Request: vars.profanityFilter [enabled: boolean]

Response: OK - for set operation
Response: OK <enabled: boolean> - for get operation

Response: InvalidArguments

Effect: Set if all players' chat messages should be sent via a profanity filter on the master servers

Delay: Instantaneous

Request: levelVars.set <context: setting context> <varName: string> <value: (variable specific)>

Response: OK - Game variable successfully set

Response: InvalidArguments

Effect: Set a level-specific variable in a specific context

Comment: This overrides a level setting. When level starts it search after level-specific variables overrides in level

context, game mode context or global context. If no overrides are found, level default will be used.

Request: levelVars.get <context: setting context> <varName: string>

Response: OK <value>

Response: NotSet - Level-specific variable override not set in the current context

Response: InvalidArguments

Effect: Get a level-specific variable in a specific context

Request: levelVars.evaluate <varName: string>

Response: OK <value>

Response: NotSet - Level-specific variable override does not apply for current level

Response: InvalidArguments

Effect: Answer the question, "what effect do all the level-specific variables have on the current level?"

Request: levelVars.clear <context: setting context> [varName: string]

Response: OK

Response: InvalidArguments

Effect: Clears one or all level-specific variables in the specified context

Request: levelVars.list <context: setting context> [varName: string]

Response: OK < number of matching entries > < entries >

Response: InvalidArguments

Effect: List all level-specific in the specified context [optionally: that match the given variable name]

Comment: Each returned entry is 4 words: <Context-type> <context> <varName> <value>

<context> can be empty string if not applicable.