Sun Game Server

Matchmaking Client API

Programmer's Guide

Copyright © 2006 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at http://www.sun.com/patents and one or more additional patents or pending patent applications in the U.S. and in other countries.

U.S. Government Rights - Commercial software. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

This distribution may include materials developed by third parties.

Sun, Sun Microsystems, the Sun logo and Java are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

UNIX is a registered trademark in the U.S. and other countries, exclusively licensed through X/Open Company, Ltd.

Products covered by and information contained in this service manual are controlled by U.S. Export Control laws and may be subject to the export or import laws in other countries. Nuclear, missile, chemical biological weapons or nuclear maritime end uses or end users, whether direct or indirect, are strictly prohibited. Export or reexport to countries subject to U.S. embargo or to entities identified on U.S. export exclusion lists, including, but not limited to, the denied persons and specially designated nationals lists is strictly prohibited.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright © 2006 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, Etats-Unis. Tous droits réservés.

Sun Microsystems, Inc. détient les droits de propriété intellectuels relatifs à la technologie incorporée dans le produit qui est décrit dans ce document. En particulier, et ce sans limitation, ces droits de propriété intellectuelle peuvent inclure un ou plus des brevets américains listés à l'adresse http://www.sun.com/patents et un ou les brevets supplémentaires ou les applications de brevet en attente aux Etats - Unis et dans les autres pays.

Cette distribution peut comprendre des composants développés par des tierces parties.

Sun, Sun Microsystems, le logo Sun et Java sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exlusivement par X/Open Company, Ltd.

Les produits qui font l'objet de ce manuel d'entretien et les informations qu'il contient sont regis par la legislation americaine en matiere de controle des exportations et peuvent etre soumis au droit d'autres pays dans le domaine des exportations et importations. Les utilisations finales, ou utilisateurs finaux, pour des armes nucleaires, des missiles, des armes biologiques et chimiques ou du nucleaire maritime, directement ou indirectement, sont strictement interdites. Les exportations ou reexportations vers des pays sous embargo des Etats-Unis, ou vers des entites figurant sur les listes d'exclusion d'exportation americaines, y compris, mais de maniere non exclusive, la liste de personnes qui font objet d'un ordre de ne pas participer, d'une facon directe ou indirecte, aux exportations des produits ou des services qui sont regi par la legislation americaine en matiere de controle des exportations et la liste de ressortissants specifiquement designes, sont rigoureusement interdites.

LA DOCUMENTATION EST FOURNIE "EN L'ETAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFACON.

Table of Contents

Introduction	5
Overview	5
<u> </u>	
Matchmaking Client Interfaces	7
IMatchMakingClient/MatchMakingClient.	
MatchmakingClient Constructor.	
listFolder	
lookupUserID.	
lookupUserName.	
locateUserInLobby	9
joinLobby	
joinLobby	
joinGame	
joinGame	
setListener	10
leaveLobby	
<u>leaveGame</u>	11
completeGame	11
IMatchmakingClientListener	12
listedFolder	12
foundUserID.	
foundUserName	
locatedUserInLobby	13
joinedLobby	14
joinedGame	14
leftLobby	
leftGame	15
connected	15
disconnected.	15
validationRequest.	16
error	16
FolderDescriptor	17
getName.	17
getDescription getFolderID	17
LobbyDescriptor	1.8
getName.	
getChannelName	
getDescription	
getNumUsers.	19
getMaxUsers.	19
isPasswordProtected.	19
getLobbyID	19
ILobbyChannel	20
setListener	
sendText	
sendPrivateText	21

<u>requestGameParameters</u>	21
<u>createGame</u>	21
<u>ILobbyChannelListener</u>	22
playerEntered	22
playerLeft	23
receiveText.	
receivedGameParameters.	23
<u>createGameFailed</u>	24
gameCreated	
gameUpdated (Not yet implemented)	24
gameDeleted	25
gameStarted	
playerJoinedGame	25
playerLeftGame	26
playerBootedFromGame (Not yet implemented)	26
GameDescriptor	27
getName.	
getChannelName.	27
getDescription	
getDescriptionisPasswordProtected	28
getParameters	28
getGameID.	28
IGameChannel	29
setListener	29
sendText	
sendPrivateText.	
updateGame (Not yet implemented)	30
boot (Not yet implemented)	30
<u>ready</u>	
startGame	31
IGameChannelListener	32
receiveText.	32
playerEntered	33
playerLeft	33
updateGameFailed (Not yet implemented).	33
gameUpdated (Not yet implemented)	
bootFailed (Not yet implemented).	34
playerBootedFromGame (Not yet implemented)	34
playerReady.	
startGameFailed.	35
gameStarted	
gameCompleted	36

Introduction

This document describes the client API for Sun Game Server (SGS) matchmaking services.

The API in this document is defined using the syntax of the Java language; the C++ API is not currently available. For more information on SGS client applications, see the programmer's guide for the J2SE, J2ME, or C++ Client API.

Overview

The Matchmaking Server is an SGS application that tracks the management of *lobbies* and *game rooms*.

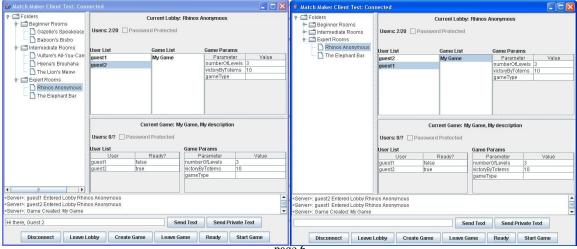
A *lobby* is a common area to which users can connect. In lobbies, users can chat (publicly or privately) and join or create game rooms. In addition, a lobby holds the default game parameters for the type of games that can be created from it.

In a *game room*, users can also chat while they wait for a game to start. All users must indicate that they are ready in order for a game to start. Once the game is started, the game room is deleted (it has served its purpose as a launching point for a game), and the users are disconnected from the lobby. Both lobbies and game rooms can be password-protected, and lobbies carry a user limit (game rooms currently don't have a limit, but may in future releases of the software).

The server manages all these interactions via well-known command protocols (for example, JOIN_LOBBY (0x45)). Each version of the client must communicate with the server via these well-known commands and provide an interface to the actual game client.

A typical game might use a client API to present its player with a list of lobbies from which to choose via a user interface. The player would pick a lobby suitable to his or her needs (lobbies may be organized by skill, for example). Once in the lobby the player could join a game about to start, or create one of his or her own. Once the game starts, the Matchmaker has done its job, and the game itself takes over.

Below is an example of a user interface. It shows two users, **guest1** and **guest2**, both connected to the same lobby and the same game room within that lobby.



page 6

Matchmaking Client Interfaces

IMatchMakingClient/MatchMakingClient

IMatchMaking and its implementation MatchMakingClient are the starting point for all interaction with the Matchmaking Server. It is a wrapper around the basic SGS API.

```
interface IMatchmakingClient
{
void setListener(IMatchmakingClientListener listener)

void listFolder(String folderPath);

void lookupUserID(String userName);
void lookupUserName(byte[] userID);
void locateUserInLobby(byte[] userID);

void joinLobby(byte[] lobbyID);
void joinLobby(byte[] lobbyID, String password);

void joinGame(byte[] gameID);
void joinGame(byte[] gameID);
void joinGame(byte[] gameID);
```

MatchmakingClient Constructor

This is the constructor for an implementation of IMatchMakingClient. It requires a reference to a ClientConnectionManager to function correctly.

MatchmakingClient(ClientConnectionManager manager)

Parameters

manager

This provides access to the SGS API.

listFolder

This command is used by the client to request a list of folders and lobbies contained at a particular level in the lobby hierarchy. The response to this method is received through *ImatchmakingClientListener.listedFolder*.

void listFolder(byte[] folderID)

Parameters

folderID

This specifies the folder ID on which the client wants information. To retrieve the root of the hierarchy, pass in null. Otherwise, pass an ID that was taken from the *getFolderID* member of a *FolderDescriptor*.

Return Value

None

lookupUserID

This command is used by the client to request if it needs to convert a user name to a User ID. The response to this request is obtained via *IMatchMakingClientListener.foundUserID*.

void lookupUserID(String userName)

Parameters

userName

The user name whose User ID we want to find.

Return Value

None

lookupUserName

This command is used by the client to request if it needs to convert a user ID to a User name. The response to this request is obtained via *IMatchMakingClientListener.foundUserName*.

void lookupUserName(byte[] userID)

Parameters

userID

The user ID whose name we want to find.

Return Value

None

locateUserInLobby

This command is used by the client to find out which lobby or lobbies a particular user is in.

void locateUserInLobby(byte[] userID)

Parameters

userID

The User ID we want to find.

Return Value

None

joinLobby

The client issues this command to join a lobby that is not password-protected

void joinLobby(byte[] lobbyID)

Parameters

lobbyID

The identifier of the lobby the user wants to join

Return Value

None.

joinLobby

The client issues this command to join a lobby that is password-protected

void joinLobby(byte[] lobbyID, String password)

Parameters

lobbyID

The identifier of the lobby the user wants to join *password*

The password required to join the game

Return Value

None.

joinGame

The client issues this command to join a game that is not password-protected

void joinGame(byte[] gameID)

Parameters

gameID

The identifier of the game the user wants to join

Return Value

joinGame

The client issues this command to join a game that is password-protected

void joinGame(byte[] gameID, String password)

Parameters

gameID

The identifier of the game the user wants to join *password*

The password required to join the game

Return Value

None

setListener

This command is used to attach a listener to the IMatchmakingClient

void setListener(IMatchmakingClientListener listener)

Parameters

listener

Pointer to the object that will now receive event notifications. May be null to specify no listener.

Return Value

None.

leaveLobby

This command attempts to leave the currently connected lobby. The client should not assume it has actually left the lobby until the ImatchMakingClientListener.leftLobby call back is received.

void leaveLobby()

Parameters

None.

Return Value

leaveGame

This command attempts to leave the currently connected game room. The client should not assume it has actually left the game room until the ImatchMakingClientListener.leftGame call back is received.

void leaveGame()

Parameters

None.

Return Value

None.

completeGame

This command will notify the server that the game given by the game ID has ended and that the corresponding game channel should be closed. Only the host may call this.

void completeGame(byte[] gameID)

Parameters

gameID

The unique identifier for the game

Return Value

IMatchmakingClientListener

IMatchmakingClientListener provides notifications of events from the IMatchmakingClient.

```
interface IMatchmakingClientListener
{
void listedFolder(byte[] folderID, FolderDescriptor[] subfolders,
LobbyDescriptor[] lobbies)

void foundUserID(String userName, byte[] userID)
void foundUserName(String userName, byte[] userID)
void locatedUserInLobby(LobbyDescriptor[] lobbies)

void joinedLobby(ILobbyChannel lobbyChannel)
void joinedGame(IGameChannel gameChannel)
void leftGame()
void leftLobby()
void connected(byte[] myID)
void disconnected()
void validationRequest(Callback[] callbacks)
void error(String message)
}
```

listedFolder

This method is the response to a *IMatchmakingClient::listFolder* request.

void listedFolder(byte folderID, FolderDescriptor[] subfolders, LobbyDescriptor[] lobbies)

Parameters

folderID

The ID of the folder that had its contents listed.

subfolders

An array containing all the subfolders of this folder.

lobbies

An array containing all the lobbies in this folder.

Return Value

None

foundUserID

This method is the response to a *ImatchmakingClient.lookupUserID* request.

void foundUserID(String userName, byte[] userID)

Parameters

userName

The user name that was specified in the original request

userID

This specifies the current User UUID for the specified user name. If this parameter is a zero-length array then the requested user is not currently connected.

Return Value

None

foundUserName

This method is the response to a *ImatchmakingClient.lookupUserName* request.

void foundUserName(String userName, byte[] userID)

Parameters

userName

The user name for the specified User ID.

userID

The User ID that was specified in the original request

Return Value

None

locatedUserInLobby

This method is the response to a *ImatchmakingClient.locateUserInLobby* request.

void locatedUserInLobby(LobbyDescriptor[] lobbies)

Parameters

lobbies

An array containing all the lobbies the user is currently in. This may be an empty list.

Return Value

None

joinedLobby

This method is sent in response to a request to join a lobby

void joinedLobby(ILobbyChannel lobbyChannel)

Parameters

lobbyChannel

The interface used to talk to the lobby channel

Return Value

None.

joinedGame

Description

void joinedGame(IGameChannel gameChannel)

Parameters

gameChannel

The interface used to talk to the game channel

Return Value

None.

leftLobby

This call back is called as confirmation that the user has left whichever lobby they were previously connected to.

void leftLobby()

Parameters

None.

Return Value

None.

leftGame

This call back is called as confirmation that the user has successfully left whichever game they were previously connected to.

void leftGame()

Parameters

None.

Return Value

connected

This call back is called when the client has successfully connected to the server and received confirmation that is has been successfully joined to the Lobby Manager Control channel. After receiving this call back the client is free to start sending commands to the server.

void connected(byte∏ myID)

Parameters

None

Return Value

None

disconnected

This call back is called as confirmation that the user has been disconnected from the server. The disconnect may or may not have been initiated by the client.

void disconnected()

Parameters

None

Return Value

None.

validationRequest

This call back is a request for user credentials, such as user name and password, from the server. The client should populate the call backs as appropriate.

void validationRequest(Callback[] callbacks)

Parameters

callbacks

The security call backs used for client authentication.

Return Value

error

This call back is called when a command results in an error on the server.

void error(int code)

Parameters

code

The error code

Return Value

FolderDescriptor

FolderDescriptor is a new class used as a container for information describing a particular folder in the folder hierarchy.

getName

This accesses the user-friendly name of the folder. This is the string that should be displayed to the user when representing folders in a user interface.

String getName()

Parameters

None

Return Value

The user-friendly name of the folder.

getDescription

This accesses a user-friendly long description of the folder. This is the string that should be displayed to the user when representing the full details of a folder in the user interface.

String getDescription()

Parameters

None

Return Value

The user-friendly description of the folder.

getFolderID

This accesses the full path to the folder. This string should be treated as an opaque value and only used in calls to *UserManagerClient.listFolder*.

Byte[] getFolderID()

Parameters

None

Return Value

The unique identifier of the folder.

LobbyDescriptor

LobbyDescriptor is a new class used as a container for information describing a particular lobby in the folder hierarchy.

getName

This accesses the user-friendly name of the lobby. This is the string that should be displayed to the user when representing lobbies in a user interface.

String getName()

Parameters

None

Return Value

The user-friendly name of the lobby.

getChannelName

The channel name ties a LobbyDescriptor to an ILobbyChannel. The channel name is unique across the lobby system.

String getChannelName()

Parameters

None

Return Value

None.

getDescription

This accesses a user-friendly long description of the lobby. This is the string that should be displayed to the user when representing the full details of a lobby in the user interface.

String getDescription()

Parameters

None

Return Value

The user-friendly description of the lobby.

getNumUsers

This enables the client to find out how many users are currently in the lobby.

int getNumUsers()

Parameters

None

Return Value

The number of users currently in the lobby.

getMaxUsers

This enables the client to find out the maximum number of users allowed in the lobby.

int getMaxUsers()

Parameters

None

Return Value

The maximum number of users currently in the lobby.

isPasswordProtected

This enables the client to find out if the lobby is protected by a password.

boolean IsPasswordProtected ()

Parameters

None

Return Value

true if the lobby is password protected, otherwise false.

getLobbyID

This enables the client to uniquely identify a lobby in the lobby system.

byte[] getLobbyID()

Parameters

None

Return Value

The unique identifier of this lobby.

ILobbyChannel

The ILobbyChannel interface is used to execute all communication with a particular lobby. It has a matching ILobbyChannelListener interface that provides asynchronous event notifications.

```
interface ILobbyChannel
{
    void setListener(ILobbyChanneListener listener)

    void sendText(String text)
    void sendPrivateText(byte[] to, String text)

    void requestGameParameters()

    void createGame(String name, string description, string password,
    HashMap<String, Object> parameters)
}
```

setListener

Description

void setListener(ILobbyChanneListener listener)

Parameters

listener

The listener that will receive events on this lobby channel.

Return Value

None.

sendText

Description

void sendText(String text)

Parameters

text

The message to send.

Return Value

sendPrivateText

Description

void sendPrivateText(byte[] to, String text)

Parameters

to

The recipient of the message

text

The message

Return Value

None

requestGameParameters

Description

void requestGameParameters()

Parameters

None.

Return Value

None.

createGame

Description

void CreateGame(String name, string description, string password, HashMap<String, Object> parameters)

Parameters

name

The proposed game name

description

The proposed game description

password

An option password to connect to the game

parameters

A map of configurable game parameters

Return Value

ILobby Channel Listener

Return Value None.

```
This is the matching class to ILobbyChannel that provides for event notifications.
       interface ILobbyChannelListener
       void playerEntered(byte[] userID, String userName)
       void playerLeft(byte[] userID)
       void receiveText(byte[] from, String text, boolean wasPrivate)
       void receivedGameParameters(HashMap<String, Object> parameters)
       void createGameFailed(String name, String reason)
       void gameCreated(GameDescriptor game)
       void gameUpdated(GameDescriptor game)
       void gameDeleted(GameDescriptor game)
       void gameStarted(GameDescriptor game)
       void playerJoinedGame (GameDescriptor game, byte[] user)
       void playerLeftGame (GameDescriptor game, byte[] user)
       void playerBootedFromGame (GameDescriptor game, byte[] booter, byte[]
       bootee, boolean isBanned, String reason)
playerEntered
       Description
       void PlayerEntered(byte[] userID, String userName)
       Parameters
       Parameter 1
              Parameter 1 Description
       Return Value
             None.
playerLeft
      Description
       void playerLeft(byte[] userID)
       Parameters
       Parameter 1
              Parameter 1 Description
```

Description

receiveText

Description

void receiveText(byte[] from, String text, boolean wasPrivate)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

receivedGameParameters

Description

void receivedGameParameters(HashMap<String, Object> parameters)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

createGameFailed

Description

void createGameFailed(String name, int errorCode)

Parameters

name

The proposed game name

errorCode

A numeric code describing the error

Return Value

gameCreated

Description

void gameCreated(GameDescriptor game)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

gameUpdated (Not yet implemented)

Description

void gameUpdated(GameDescriptor game)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

gameDeleted

Description

void gameDeleted(GameDescriptor game)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

gameStarted

Description

void gameStarted(GameDescriptor game)\

Parameters

Parameter 1

Parameter 1 Description

Return Value

playerJoinedGame

Description

void playerJoinedGame (GameDescriptor game, byte[] user)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

player Left Game

Description

void playerLeftGame (GameDescriptor game, byte[] user)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

playerBootedFromGame (Not yet implemented)

Description

void playerBootedFromGame (GameDescriptor game, byte[] booter, byte[] bootee, boolean isBanned, String reason)

Parameters

Parameter 1

Parameter 1 Description

Return Value

GameDescriptor

getName

Description

String getName()

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

getChannelName

The channel name ties a GameDescriptor to an IGameChannel. The channel name is unique across the lobby system.

String getChannelName()

Parameters

None.

Return Value

None.

getDescription

Description

String getDescription()

Parameters

Parameter 1

Parameter 1 Description

Return Value

isPasswordProtected

Description

Boolean IsPasswordProtected()

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

getParameters

This method returns a map of game parameter names to their associated values.

HashMap<String, Object> getParameters()

Parameters

None.

Return Value

Returns a map of game parameters names to values for this game.

getGameID

The game ID uniquely identifies the associated game in the lobby system.

byte[] getGameID()

Parameters

None.

Return Value

Returns a unique ID for the game.

IGameChannel

This class provides access to all functionality needed within a particular game room. It has a matching listener class called IgameChannelListener to receive command call backs.

```
interface IGameChannel
{
  void setListener(IGameChannelListener listener)

void sendText(String text)
  void sendPrivateText(byte[] to, String text)

void updateGame(String name, String description, String password,
  HashMap<String, object> parameters)

void boot(byte[] userID, boolean isBanned, String reason)

void ready(GameDescriptor game, boolean isReady)

void startGame()
}
```

setListener

Description

void setListener(GameChannelListener listener)

Parameters

listener

Return Value

None.

sendText

Description

void sendText(String text)

Parameters

text

The message to send

Return Value

sendPrivateText

Send a private message to the given user.

void sendPrivateText(byte[] to, String text)

Parameters

to

the recipient of the message

text

the message

Return Value

None.

updateGame (Not yet implemented)

Description

void updateGame(String name, String description, String password, HashMap<String, object> parameters)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

boot (Not yet implemented)

Description

void Boot(byte[] userID, boolean isBanned, String reason)

Parameters

Parameter 1

Parameter 1 Description

Return Value

ready

This command is sent to the server to indicate that the player is ready (or not) to start the game. All players must indicate that they are ready before a game can start.

void ready(GameDescriptor game, boolean isReady)

Parameters

game

This game descriptor must match the game settings on the server in order for the readiness state to be accepted.

isReady

If true, the player is ready to start the game.

Return Value

None.

startGame

The command attempts to start the game to which the player is currently connected. Only the host may start a game, and additionally, all the players must indicate that they are ready.

void startGame()

Parameters

None.

Return Value

IGameChannelListener

```
This class is the event notification class for the IGameChannel interface.
```

```
interface IGameChannelListener
{
void receiveText(byte[] from, String text, boolean wasPrivate)

void playerEntered(byte[] userID, String userName)

void playerLeft(byte[] userID, String userName)

void updateGameFailed(GameDescriptor game, String reason)

void gameUpdated(GameDescriptor game)

void bootFailed(byte[] userID, boolean isBanned, String reason)

void playerBootedFromGame(byte[] booter, byte[] bootee, boolean isBanned,

String reason)

void playerReady(byte[] userID, boolean isReady)

void startGameFailed(String reason)

void gameStarted(GameDescriptor game)

void gameCompleted();
}
```

receiveText

This call back receives text on the game channel.

void receiveText(byte[] from, String text, boolean wasPrivate)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

playerEntered

Description

void playerEntered(byte[] userID, String userName)

Parameters

Parameter 1

Parameter 1 Description

Return Value

playerLeft

Description

void playerLeft(byte[] userID, String userName)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

updateGameFailed (Not yet implemented)

Description

void updateGameFailed(GameDescriptor game, String reason)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

gameUpdated (Not yet implemented)

Description

void gameUpdated(GameDescriptor game)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

bootFailed (Not yet implemented)

Description

void bootFailed(byte[] userID, boolean isBanned, String reason)

Parameters

Parameter 1

Parameter 1 Description

Return Value

playerBootedFromGame (Not yet implemented)

Description

void playerBootedFromGame(byte[] booter, byte[] bootee, boolean isBanned,
String reason)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

playerReady

Description

void playerReady(byte[] userID, boolean isReady)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

startGameFailed

Description

void startGameFailed(String reason)

Parameters

Parameter 1

Parameter 1 Description

Return Value

None.

gameStarted

Description

void gameStarted(GameDescriptor game)

Parameters

Parameter 1

Parameter 1 Description

Return Value

gameCompleted

This call back is called in response to the *IMatchMakerClient.completeGame* command from the host. It serves as confirmation that the game channel has closed.

void gameCompleted()

Parameters

None.

Return Value