

# ShareGrid API Reference

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## I. GENERAL INFORMATION

1. All API urls begin with <http://sharegrid.apphb.com/api/>

## II. USERS

### 1. POST /users

Registers a new user. Required properties are FirstName, LastName, Email and Password.

### 2. GET /users/{userId}

Returns public information for the specified user.

### 3. PUT /users

Updates an existing user. Valid properties are FirstName, LastName, Email and Password and any one of those can be omitted. Valid SessionKey is required which is how the user authenticates and the system knows which user to modify.

### 4. POST /users/login

Generates a session key to be used as authentication for the user. Requires Email and Password which links the returned key to an existing user. The generated session key is valid for 1 week but can be invalidated explicitly.

### 5. DELETE /users/logout/{sessionKey}

Invalidates the given session key so it becomes unusable.

### 6. GET /users/checkEmail/{email}

Checks if the specified email is available for registration.

## III. CHANNELS

### 1. POST /channels

Registers a new channel. Required parameters are: Name, Description, Password and AdminPassword.

### 2. GET /channels/{channelName}

Returns public information for the channel with the specified name.

### 3. PUT /channels/{channelName}

Updates the channel information and/or passwords. A valid SessionKey for admin user or ChannelKey with the admin password is required.

### 4. DELETE /channels/{channelName}

Removes the specified channel. Requires a valid admin password for the channel or admin user session.

## 5. **POST /channels/{channelName}/users**

Subscribes a given user to a channel with the specified name. Requires **both** a channel password and a session key.

## 6. **DELETE /channels/{channelName}/users/{userId}**

Unsubscribes the user from the specified channel. Requires either a valid session key for the user, a valid session key for admin user or the admin password for the channel.

# IV. ENTITIES

## 1. **POST /channels/{channelName}/entities**

Uploads an entity to the specified channel. Entities can be files, links or messages. Links or messages require at least Title or Message property to be set. The files should be sent using multipart/form-data encoding. On success the entity data will be returned and all subscribed clients will be notified that an entity has been uploaded.

Valid properties are Title, Message, Link and Importance (0 – Important, 1 – Normal, 2 – Not important). If Link is specified the entity is considered a link. If a file upload is present (with a name of 'file') it's considered a file.

This call requires a valid SessionKey of a subscribed user or a channel password (ChannelKey property)

## 2. **GET /channels/{channelName}/entities**

Returns the entities contained in the channel. Can be sorted using the 'sort' parameter. The sort parameter can specify multiple sorting rules and order types. For example to sort by date and title you can write: **"?sort=Date\_desc,Title\_desc"**.

Results can be limited with 'limit' and an offset from the start is specified by 'start'.

A SessionKey or ChannelKey is required and passed in the URL query string.

## 3. **DELETE /channels/{channelName}/entities/{entityId}**

Removes the specified entity and its references. Requires a valid SessionKey or ChannelKey with admin password.