## API v1 Draft

This is a draft specification for version 1 of the ubcnow-server REST API. Many things are likely to change before finalization.

#### Using the API

#### **Encoding**

All body requests and responses are encoded in JSON. The fields in the specification for each model object directly correspond to its JSON fields in requests and responses, unless otherwise indicated.

#### Versioning

All API calls must be preceded by a version identifier:

http://host:port/api/v1/

Alternatively, you may also request the latest API:

http://host:port/api/latest/

All endpoints documented are expressed relative to the above URL.

#### **Parameters**

URL parameters are expressed with :this notation.

Optional parameters are in parentheses.

#### Authentication

TBD

### Data Model

#### Blips

A 'blip' is a general class of event that is propagated to a group's users.

#### Specification

Field	Type	Description	Required
id	Long	A unique index generated by the DB.	true
group	Group	The group of this blip.	true
name	String	A user-readable event name.	$\operatorname{true}$
summary	String	A user-readable event summary.	false
link	String	A link to the event's page.	false
time	Date	The time of the event.	false
address	String	User-readable address of location.	false
lat	Double	Latitude of event location.	false
lng	Double	Longitude of event location.	false

### Example Data TODO

#### Users

TODO: (probably best to wait on auth for this one)

# Groups

A 'group' is a classification composed of users who wish to receive a certain type of notification.

TODO: groups admin API

### Specification

Field	Type	Description	Required
gid	Long	Group identifier	true
name	String	A user-readable group name	true
interests	Long	The identifier of the appropriate group-interest object	true
concrete	Boolean	True if this is a concrete group	true

### Example Data TODO

### Examples

A concrete group would be the UBC math club.

An abstract group would be a "bus notifications" group.

### Interest

An interest is a classification indicated by individual users. Interests are paired with groups to identify potential Blips of interest.

### Specification

Field	Type	Description	Required
iid	Long	Interest identifier	true
name	String	User-readable name of this interest	true
groups	Long	The identifier of the appropriate group-interest object	true

## Example Data

TODO

# Endpoints

# Blips

Path	Method	Notes
/blip/	$\operatorname{GET}$	Receives a list of the user's current blips.
/blip/	POST	Creates a new blip with the JSON data in the request's body.
/blip/:id	$\operatorname{GET}$	Retrieves the blip with the given id.
/blip/:id	PUT	Updates the blip's fields with the JSON data in the request's body. TODO: authentic
/blip/:id	DELETE	Deletes the blip with the given id.

TODO: group-specific blip pulling.

## Examples

TODO

# Blip Stream

Endpoint:

### /blip/stream

ubcnow-server can communicate real-time events to clients connected using unidirectional WebSockets.

JSON blobs representing 'updates' are sent over the WebSocket stream.

# **Update Specification**

This specification corresponds to JSON fields in the messages sent via WebSocket.

Field	Туре	Description
type id	enum { add, update, delete } Long	Denotes the type of update.  The blip being added, updated, or deleted.