Contxt – App/Server API

# Overview

The purpose of this document is to describe the API between the Contxt iPhone app and the web server. This information is crucial for transferring data successfully between the app and the server.

# Credentials

Username and a hashed password are sent with every request. The server should validate this information before processing any request. NOTE: This is NOT done via SSL. JSON details for credentials are as follows:

1. Username
   1. Field Name: “x978z54”
   2. Value: <email\_address>
   3. Level: Root
   4. Required: YES
2. Password
   1. Field Name: “x302y18”
   2. Value: <GUID>
   3. Level: Root
   4. Required: YES

# Parent Keys

In iOS Core Data, relationships are preserved between objects. Thus, whenever an object has an associated parent (in our case, an example would be an Annotation, which should have a parent AnnotationDocument key), the key must be captured. The server must supply the parent key for any object that has a parent. AnnotationDocument objects have no parent, as they are the highest objects in the tree. Additionally, AnnotationPoint and AnnotationSize objects do not require a parent key, either. However, some objects can have different types of parent keys, and that must also be specified. For example, an ImageInfo object could have a parentAnnotationDocument, or it could have a parentConversationMessage, because an image could be associated with either (but not both) of those things. In this case, one of the keys must be specified.

To help clarify those relationships, each object will be listed below with the possible parent keys (JSON field names) that need to be included.

*AnnotationDocument*

Notes: Key is NOT required unless parent exists

JSON fields:

* “parentAnnotationKey”

*ImageAnnotation*

Notes: Key is REQUIRED

JSON fields:

* “parentAnnotationDocKey”

*DrawingAnnotation*

Notes: Key is REQUIRED

JSON fields:

* “parentAnnotationDocKey”

*ConvoAnnotation*

Notes: Key is REQUIRED

JSON fields:

* “parentAnnotationDocKey”

*ConversationThread*

Notes: Key is REQUIRED

JSON fields:

* “parentAnnotationKey”

*ConversationMessage*

Notes: Key is REQUIRED

JSON fields:

* “parentConvoThreadKey”

*AnnotationDetails*

Notes: Key is REQUIRED

JSON fields:

* “parentAnnotationKey”

*ImageInfo*

Notes: One key is REQUIRED

JSON fields:

* “parentAnnotationDocKey”
* “parentConvoMessageKey”

*ContxtContact* (Participant)

Notes: Do not include a key

JSON fields: <NONE>

# Common Request Information

As stated above, all requests contain credentials. All requests are POST requests with JSON data. Specifics of the structure of JSON data will be included in each section below as a sample of JSON (or php files that contain the JSON).

# Responses

All responses should be JSON and should include at least the following fields / details:

1. Status
   1. Field Name: “status”
   2. Possible Values: “success” , “error”
   3. Level: Root
   4. Required: YES
2. Message
   1. Field Name: “message”
   2. Possible Values: “” (empty string) | <error\_message>
   3. Level: Root
   4. Required: YES

Every object represented in JSON should include the following fields:

1. Key
   1. Field Name: “key”
   2. Possible Values: <GUID>
   3. Level: Root *of object*
   4. Required: YES
2. Type
   1. Field Name: “type”
   2. Possible Values:
      1. “ANNOTATION\_DOC”
      2. “IMAGE\_INFO”
      3. “IMAGE\_ANNOTATION”
      4. “DRAWING\_ANNOTATION”
      5. “CONVO\_ANNOTATION”
      6. “CONVO\_ANNOTATION\_PARTICIPANT”
      7. “CONVO\_THREAD”
      8. “ANNOTATION\_DETAILS”
      9. “CONVO\_MESSAGE”
      10. “CONTXT\_CONTACT”
   3. Level: Root *of object*
   4. Required: YES

# FETCH Operations

## Get New Annotation Documents

*File Name*: getNewAnnotationDocuments.php

*Acknowledgement*: YES (per document)

*Special Notes*:

* AnnotationDocument objects should contain embedded ImageInfo objects.
* Do NOT include an ImageInfo object nor AnnotationDocument is the image associated with the ImageInfo object does not exist on the server.
* In the annotations list:
  + ConvoAnnotation objects should NOT contain any embedded ConvoMessage objects
  + ImageAnnotation objects should NOT contain an ImageInfo object
* Whenever determining server side what should be included in this list, understand that users can share ConvoAnnotations and ImageAnnotations *without* actually sharing the AnnotationDocument object that contains those annotations. The concept here is that the user doesn’t want them to see everything, but only certain conversations or images. Thus, the query to return results for this request should include logic to determine the appropriate data to return:
  + If the user has any other ImageAnnotation or ConvoAnnotation shared to them, then include ONLY the Annotation object in the response
  + Otherwise, the server should include the parent AnnotationDocument object with ONLY the document details (along with the ImageInfo) and the single ImageAnnotation or ConvoAnnotation within the “annotations” value list.

*Request Parameters*:

* <credentials>

*Response* *Parameters*:

* “status”
* “message”
* “annotation\_docs”:[ ] (array)

*Example Response*:

{

"status": "success",

"message": "",

"annotation\_docs": [

{

"annotations": [

{

"anchorPoint": {

"x": "154",

"y": "20"

},

"color": "3",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "3007E211-912A-4BA4-A0AD-07B80E46EB21",

"parentAnnotationKey": "7CC475FF-1E99-4844-9494-82BF17DD3B8F",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "2",

"key": "7CC475FF-1E99-4844-9494-82BF17DD3B8F",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "56",

"width": "53"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

},

{

"anchorPoint": {

"x": "150.5",

"y": "250.5"

},

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"key": "7CC475FF-AAAA-AAAA-9494-82BF17DD3B8F",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"type": "IMAGE\_ANNOTATION"

},

{

"anchorPoint": {

"x": "155.5",

"y": "250.5"

},

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"key": "7CC475FF-EEEE-EEEE-9494-82BF17DD3B8F",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"type": "IMAGE\_ANNOTATION"

},

{

"anchorPoint": {

"x": "300.5",

"y": "100.5"

},

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "a@a.com",

"key": "convo-annotation-1",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"type": "CONVO\_ANNOTATION"

}

],

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "2E70A413-F18A-4FB4-B0C4-FB9FB06DEAEE",

"key": "2E70A413-F18A-4FB4-B0C4-FB9FB06DEAEE",

"owner": "asdf@outlook.com",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"parentConvoMessageKey": "",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

},

"key": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"type": "ANNOTATION\_DOC"

},

{

"annotations": [

{

"anchorPoint": {

"x": "154",

"y": "200"

},

"color": "3",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"drawingType": "2",

"key": "drawing-annotation---111",

"parentAnnotationDocKey": "12312312-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "56",

"width": "53"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

},

{

"anchorPoint": {

"x": "100.5",

"y": "100.5"

},

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "a@a.com",

"key": "convo-annotation-111",

"parentAnnotationDocKey": "12312312-0000-0000-0000-7B51838B7F1F",

"type": "CONVO\_ANNOTATION"

}

],

"imageInfo": {

"dateCreated": "2013-09-15 19:19:19",

"extension": "jpg",

"filename": "CC3099DE-7176-416C-A3AE-072022982686",

"key": "CC3099DE-7176-416C-A3AE-072022982686",

"owner": "asdf@outlook.com",

"parentAnnotationDocKey": "12312312-0000-0000-0000-7B51838B7F1F",

"parentConvoMessageKey": "",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

},

"key": "12312312-0000-0000-0000-7B51838B7F1F",

"type": "ANNOTATION\_DOC"

}

]

}

## Get New Conversation Messages

*File Name*: getNewConversationMessages.php

*Acknowledgement*: YES (per message)

*Special Notes*:

* DO include an ImageInfo object for ConvoMessages that have an image associated—UNLESS the image does not exist on the server. In that case, do NOT include the ConvoMessage at all.

*Request Parameters*:

* <credentials>

*Response* *Parameters*:

* “status”
* “message”
* “message\_count” : <# of messages being returned>
* “convo\_messages” : [ ] (array)

*Example Response*:

{

"status": "success",

"message": "",

"message\_count": "5",

"convo\_messages": [

{

"key": "convo-Message-key\_600",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-11-20 19:58:00",

"owner": "a@a.com",

"text": "new message from getNewConvoMessages.php request"

},

{

"key": "convo-Message-key\_601",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-11-20 19:58:00",

"owner": "a@a.com",

"text": "",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "19AC3138-8EDB-4022-B011-97FA62BB88C3",

"key": "19AC3138-8EDB-4022-B011-97FA62BB88C3",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_601",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

},

{

"key": "convo-Message-key\_602",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-11-20 19:58:00",

"owner": "a@a.com",

"text": "",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "4C5A8FE7-42F6-4301-8882-75E79D0FCFD0",

"key": "4C5A8FE7-42F6-4301-8882-75E79D0FCFD0",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_602",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

},

{

"key": "convo-Message-key\_603",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-11-20 19:58:00",

"owner": "a@a.com",

"text": "",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "64FF5EBE-BC15-4E09-B8BE-2FB44B5216E0",

"key": "64FF5EBE-BC15-4E09-B8BE-2FB44B5216E0",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_603",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

},

{

"key": "convo-Message-key\_604",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-11-20 19:58:00",

"owner": "a@a.com",

"text": "",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "250F34A9-562F-4420-B148-BA221D281B8C",

"key": "250F34A9-562F-4420-B148-BA221D281B8C",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_604",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

}

]

}

## Get Conversation Thread For Conversation Annotation

*File Name*: getConvoThreadForConvoAnnotation.php

*Special Notes*:

* This thread, if it exists, should return all ConvoMessage objects, along with the embedded ImageInfo object for the ConvoMessage, if it has an image.
  + NOTE: Do NOT include the ConvoMessage object if it has an ImageInfo object but the image for that object does not exist on the server.

*Request Parameters*:

* <credentials>
* “key” : <GUID> (this is the key for the ConvoAnnotation object)

*Response* *Parameters*:

* “status”
* “message”
* “convo\_thread” : { } (object)

*Example Response*:

{

"status": "success",

"message": "",

"convo\_thread": {

"parentAnnotationKey": "convo-annotation-key-1",

"key": "Convo-thread-key\_1",

"type": "CONVO\_THREAD",

"dateCreated": "2013-09-10 01:55:00",

"owner": "a@a.com",

"details": "",

"title": "",

"participants": [

{

"key": "contxt-contact-1",

"type": "CONTXT\_CONTACT",

"email": "a@a.com",

"firstName": "Chad",

"lastName": "Morris"

},

{

"key": "contxt-contact-2",

"type": "CONTXT\_CONTACT",

"email": "asdf@gmail.com",

"firstName": "Person",

"lastName": "One"

},

{

"key": "contxt-contact-3",

"type": "CONTXT\_CONTACT",

"email": "blah@a.com",

"firstName": "Person",

"lastName": "Two"

}

],

"convo\_messages": [

{

"key": "convo-Message-key\_1",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 01:55:00",

"owner": "a@a.com",

"text": "this is the first message"

},

{

"key": "convo-Message-key\_2",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 01:58:00",

"owner": "a@a.com",

"text": "this is the second message"

},

{

"key": "convo-Message-key\_2.1",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:07:36",

"owner": "a@a.com",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "BAE8C6BE-C410-4B36-B5B1-207DF74F9F16",

"key": "BAE8C6BE-C410-4B36-B5B1-207DF74F9F16",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_2.1",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

},

{

"key": "convo-Message-key\_3",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:00:00",

"owner": "asdf@gmail.com",

"text": "this should come from someone else"

},

{

"key": "convo-Message-key\_4",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:01:43",

"owner": "a@a.com",

"text": "yep, it did"

},

{

"key": "convo-Message-key\_5",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:05:11",

"owner": "asdf@gmail.com",

"text": "show me a pic"

},

{

"key": "convo-Message-key\_6",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:07:23",

"owner": "a@a.com",

"text": "ok, here ya go..."

},

{

"key": "convo-Message-key\_7",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:07:36",

"owner": "a@a.com",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "ECF05DE3-D055-4E0E-B9D2-65947EAC6877",

"key": "ECF05DE3-D055-4E0E-B9D2-65947EAC6877",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_7",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

},

{

"key": "convo-Message-key\_8",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-09-10 02:12:12",

"owner": "asdf@gmail.com",

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "E415D70C-745A-4CB9-999E-01736A9CCFCE",

"key": "E415D70C-745A-4CB9-999E-01736A9CCFCE",

"owner": "asdf@outlook.com",

"parentConvoMessageKey": "convo-Message-key\_8",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

}

}

]

}

}

## Get Annotation Document For Image Annotation

*File Name*: getAnnotationDocumentForImageAnnotation.php

*Special Notes*:

* Same rules apply for the AnnotationDocument object here as was specified in the “Get New Annotation Documents” section above.

*Request Parameters*:

* <credentials>
* “key” : <GUID> (this is the key for the ImageAnnotation object that contains the AnnotationDocument)

*Response* *Parameters*:

* “status”
* “message”
* “annotation\_doc” : { } (object)

*Example Response*:

{

"status": "success",

"message": "",

"annotation\_doc": {

"annotations": [

{

"anchorPoint": {

"x": "154",

"y": "20"

},

"color": "2",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "3007E211-BBBB-BBBB-A0AD-07B80E46EB21",

"parentAnnotationKey": "DDDDDDDD-DDDD-4844-9494-82BF17DD3B8F",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "2",

"key": "DDDDDDDD-DDDD-4844-9494-82BF17DD3B8F",

"parentAnnotationDocKey": "FF5FF574-1234-1234-1234-1234838B7F1F",

"size": {

"height": "56",

"width": "53"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

}

],

"imageInfo": {

"dateCreated": "2013-09-06 19:19:19",

"extension": "jpg",

"filename": "6F906ABF-2C09-449E-AEC2-4C89869D74B9",

"key": "6F906ABF-2C09-449E-AEC2-4C89869D74B9",

"owner": "asdf@outlook.com",

"parentAnnotationDocKey": "FF5FF574-1234-1234-1234-1234838B7F1F",

"parentConvoMessageKey": "",

"parentProjectKey": "",

"type": "IMAGE\_INFO"

},

"parentAnnotationKey": "7CC475FF-AAAA-AAAA-9494-82BF17DD3B8F",

"key": "FF5FF574-1234-1234-1234-1234838B7F1F",

"type": "ANNOTATION\_DOC"

}

}

## Get Annotations For Annotation Document

*File Name*: getAnnotationsForAnnotationDocument.php

*Acknowledgement*: YES (all types, per object)

*Special Notes*:

* Possible object types that can be returned in this list:
  + “IMAGE\_ANNOTATION”
  + “CONVO\_ANNOTATION”
  + “DRAWING\_ANNOTATION”
  + “CONVO\_PARTICIPANT”
  + “CONVO\_MESSAGE”
* This is a list of ImageAnnotation, ConvoAnnotation, or DrawingAnnotation objects. Same rules apply to ImageAnnotation and ConvoAnnotation with respect to what should be embedded—i.e. no ImageInfo if the image doesn’t exist on server; no ConvoThread or ConvoMessage objects in the ConvoAnnotation; etc.
* Additionally, this list can include ConvoMessage objects, along with a pseudo object (not a real object in the domain model for the iOS app) representing a CONVO\_PARTICIPANT.
* For the CONVO\_PARTICIPANT type, a field called "convoAnnotationKey” is REQUIRED, and it represents the ConvoAnnotation to which this participant will be added or removed

*Request Parameters*:

* <credentials>

*Response* *Parameters*:

* “status”
* “message”
* “items” : [ ] (array)

*Example Response*:

{

"status": "success",

"message": "",

"items": [

{

"type": "DRAWING\_ANNOTATION",

"status": "UPDATED",

"object": {

"anchorPoint": {

"x": "125",

"y": "300"

},

"color": "4",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "3007E211-912A-4BA4-A0AD-07B80E46EB21",

"parentAnnotationKey": "7CC475FF-1E99-4844-9494-82BF17DD3B8F",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "2",

"key": "7CC475FF-1E99-4844-9494-82BF17DD3B8F",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "56",

"width": "53"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

}

},

{

"type": "DRAWING\_ANNOTATION",

"status": "CREATED",

"object": {

"anchorPoint": {

"x": "49",

"y": "49"

},

"color": "1",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": " asdf@outlook.com ",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "details-key-annot-key-12345",

"parentAnnotationKey": "annot-12345",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "1",

"key": "annot-12345",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "30",

"width": "30"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

}

},

{

"type": "DRAWING\_ANNOTATION",

"status": "CREATED",

"object": {

"anchorPoint": {

"x": "100",

"y": "100"

},

"color": "2",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "details-key-annot-LINE-1",

"parentAnnotationKey": "annot-LINE-1",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "3",

"key": "annot-LINE-1",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "50",

"width": "50"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

}

},

{

"type": "DRAWING\_ANNOTATION",

"status": "CREATED",

"object": {

"anchorPoint": {

"x": "200",

"y": "200"

},

"color": "3",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "details-key-annot-LEADER-1",

"parentAnnotationKey": "annot-LEADER-1",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "4",

"key": "annot-LEADER-1",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "-30",

"width": "70"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

}

},

{

"type": "DRAWING\_ANNOTATION",

"status": "CREATED",

"object": {

"anchorPoint": {

"x": "10",

"y": "300"

},

"color": "5",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "details-key-annot-DIMENSION-1",

"parentAnnotationKey": "annot-DIMENSION-1",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "9",

"key": "annot-DIMENSION-1",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "20",

"width": "20"

},

"text": "",

"type": "DRAWING\_ANNOTATION"

}

},

{

"type": "DRAWING\_ANNOTATION",

"status": "CREATED",

"object": {

"anchorPoint": {

"x": "220",

"y": "10"

},

"color": "7",

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"owner": "asdf@outlook.com",

"details": {

"dateCreated": "2013-09-10 01:55:00",

"dateUpdated": "2013-09-10 22:10:00",

"key": "details-key-annot-TEXT-1",

"parentAnnotationKey": "annot-TEXT-1",

"type": "ANNOTATION\_DETAILS"

},

"drawingType": "7",

"key": "annot-TEXT-1",

"parentAnnotationDocKey": "FF5FF574-0000-0000-0000-7B51838B7F1F",

"size": {

"height": "50",

"width": "100"

},

"text": "From the Server!",

"fontSize": "23",

"type": "DRAWING\_ANNOTATION"

}

},

{

"type": "DRAWING\_ANNOTATION",

"status": "DELETED",

"object": {

"key": "C5DDFC3E-B1A7-408B-A76C-541EEBE05F1F"

}

},

{

"type": "CONVO\_PARTICIPANT",

"status": "DELETED",

"object": {

"participantEmail": "asdf@gmail.com",

"convoAnnotationKey": "convo-annotation-1"

}

},

{

"type": "CONVO\_PARTICIPANT",

"status": "CREATED",

"object": {

"convoAnnotationKey": "convo-annotation-1",

"contxtContact": {

"key": "contxt-contact-4",

"type": "CONTXT\_CONTACT",

"email": "test@oh-yeah.com",

"firstName": "Someone",

"lastName": "Else"

}

}

},

{

"type": "CONVO\_MESSAGE",

"status": "CREATED",

"object": {

"key": "convo-Message-key\_500",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "Convo-thread-key\_1",

"dateCreated": "2013-11-20 19:58:00",

"owner": "chadly@a.com",

"text": "this is a \"fancy\" NEW message!"

}

}

]

}

# SHARE Operations

## Share Annotation Document

*File Name*: shareObject.php

*Special Notes*:

* The most common use case here is sharing an AnnotationDocument—nothing special about that.
* However, whenever a user shares an ImageAnnotation, the embedded AnnotationDocument is what gets shared. So, the **server** needs to check for this and response appropriately:
  + Whenever determining whether to return an AnnotationDocument object or an ImageAnnotation, just check to see if the AnnotationDocument has a parentAnnotation. If so, then the server knows that this is just an ImageAnnotation that was shared and respond with the following:
    - AnnotationDocument of the parent ImageAnnotation with ONLY the following sub-objects returned:
      * The ImageAnnotation that was shared
      * The ImageInfo object for the parent AnnotationDocument
    - NOTE: The idea here is that the user may only want to share an embedded image, not the entire parent AnnotationDocument object, which could have conversations, drawings, or other images.

*Request Parameters*:

* See *Example POST Data* below

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "ANNOTATION\_DOC",

"x978z54": "a@a.com",

"key": "DAF7F4D8-8326-4FBE-A83B-7C2FFFE366D4",

"x302y18": "0cc175b9c0f1b6a831c399e269772661",

"email\_list": [

"fake-email@yahoo.com",

"asdf@outlook.com"

]

}

## Add Conversation Participant

*File Name*: addParticipants.php

*Special Notes*:

*Request Parameters*:

* <credentials>
* “type” : “CONVO\_THREAD”
* “key” : <GUID> (the key for the ConvoThread object)
* “email\_list” : [ ] (array)

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "CONVO\_THREAD",

"x978z54": "a@a.com",

"key": "8EEE6C7D-630A-4D80-AB41-9614A1388FDF",

"x302y18": "0cc175b9c0f1b6a831c399e269772661",

"email\_list": [

"asdf@yahoo.com",

"asdf@gmail.com"

]

}

## Remove Conversation Participant

*File Name*: removeParticipants.php

*Special Notes*:

*Request Parameters*:

* <credentials>
* “type” : “CONVO\_THREAD”
* “key” : <GUID> (the key for the ConvoThread object)
* “email\_list” : [ ] (array)

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "CONVO\_THREAD",

"x978z54": "a@a.com",

"key": "8EEE6C7D-630A-4D80-AB41-9614A1388FDF",

"x302y18": "0cc175b9c0f1b6a831c399e269772661",

"email\_list": [

"asdf@gmail.com"

]

}

# SAVE Operations

## Save Annotation Document

*File Name*: saveObject.php

*Special Notes*:

*Request Parameters*:

* <credentials>
* “type” : “ANNOTATION\_DOC”
* “object” : { } (object)

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "ANNOTATION\_DOC",

"x978z54": "a@a.com",

"object": {

"type": "ANNOTATION\_DOC",

"imageInfo": {

"extension": "jpg",

"filename": "ABC4C0A9-1438-4769-A2EC-544BB4A695BD",

"type": "IMAGE\_INFO",

"dateCreated": "2013-11-25 20:40:36",

"path": "/var/mobile/Applications/48242982-FB43-462C-B736-C176B81C1D10/Documents/ABC4C0A9-1438-4769-A2EC-544BB4A695BD.jpg",

"parentConvoMessageKey": "",

"key": "ABC4C0A9-1438-4769-A2EC-544BB4A695BD",

"previewPath": "/var/mobile/Applications/48242982-FB43-462C-B736-C176B81C1D10/Documents/ABC4C0A9-1438-4769-A2EC-544BB4A695BD\_preview.jpg",

"owner": "a@a.com",

"parentAnnotationDocKey": "E1F44C32-1FF4-4DCF-99F3-1162C21CBC9B",

"thumbPath": "/var/mobile/Applications/48242982-FB43-462C-B736-C176B81C1D10/Documents/ABC4C0A9-1438-4769-A2EC-544BB4A695BD\_thumb.jpg",

"parentProjectKey": ""

},

"key": "E1F44C32-1FF4-4DCF-99F3-1162C21CBC9B",

"annotations": []

},

"x302y18": "0cc175b9c0f1b6a831c399e269772661"

}

## Save Annotation

*File Name*: saveObject.php

*Special Notes*:

*Request Parameters*:

* <credentials>
* “type” : one of
  + “IMAGE\_ANNOTATION”
  + “CONVO\_ANNOTATION”
  + “DRAWING\_ANNOTATION”
* “object” : { } (object)

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "CONVO\_ANNOTATION",

"x978z54": "a@a.com",

"object": {

"type": "CONVO\_ANNOTATION",

"anchorPoint": {

"x": "52.5",

"y": "287"

},

"parentAnnotationDocKey": "E1F44C32-1FF4-4DCF-99F3-1162C21CBC9B",

"owner": "a@a.com",

"dateUpdated": "2013-11-25 20:43:41",

"key": "C388CEF4-6227-4992-83E0-C3CFB8EA171F",

"dateCreated": "2013-11-25 20:43:41",

"details": {},

"convoThread": {

"participants": [

{

"parentConvoThreadKeys": [

"91103C3F-9F25-4DD0-A57A-B22ECFE4E8F9",

"F088BDB1-FE90-48D5-8F3A-B1170A153E02",

"Convo-thread-key\_1"

],

"key": "contxt-contact-1",

"firstName": "Jimmy",

"email": "a@a.com",

"lastName": "Bean"

}

],

"type": "CONVO\_THREAD",

"owner": "a@a.com",

"dateCreated": "2013-11-25 20:43:41",

"key": "F088BDB1-FE90-48D5-8F3A-B1170A153E02",

"unread": "0",

"parentAnnotationKey": "C388CEF4-6227-4992-83E0-C3CFB8EA171F",

"title": ""

}

},

"x302y18": "0cc175b9c0f1b6a831c399e269772661"

}

## Save Conversation Message

*File Name*: saveObject.php

*Special Notes*:

*Request Parameters*:

* <credentials>
* “type” : “CONVO\_MESSAGE”
* “object” : { } (object)

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "CONVO\_MESSAGE",

"x978z54": "a@a.com",

"object": {

"text": "hi there",

"type": "CONVO\_MESSAGE",

"parentConvoThreadKey": "F088BDB1-FE90-48D5-8F3A-B1170A153E02",

"owner": "a@a.com",

"dateCreated": "2013-11-25 20:46:31",

"key": "452915E6-3FBE-4B6B-87DA-1EBC9AB5AC97",

"unread": "0"

},

"x302y18": "0cc175b9c0f1b6a831c399e269772661"

}

## Upload Image

*File Name*: uploadImage.php

*Mime Type*: image/<ext>

*Name*: “image”

*Request Parameters*:

* <credentials>

*Response* *Parameters*:

* “status”
* “message”

*Example*: PHP file for upload is included in documents folder

# DELETE Operations

## Delete Object

*File Name*: deleteObject.php

*Special Notes*:

* Whenever processing the delete, the server needs to confirm that the user attempting to delete the supplied object is the owner of the object. Otherwise, ignore the delete.
  + NOTE: In this case, the server should still return “success”
  + Only return “error” in the case that it couldn’t process the delete for another reason.

*Request Parameters*:

* <credentials>
* “type” : one of
  + “IMAGE\_ANNOTATION”
  + “CONVO\_ANNOTATION”
  + “DRAWING\_ANNOTATION”
* “key” : <GUID>

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"type": "DRAWING\_ANNOTATION",

"x978z54": "a@a.com",

"key": "7CC475FF-1E99-4844-9494-82BF17DD3B8F",

"x302y18": "0cc175b9c0f1b6a831c399e269772661"

}

# USER Operations

## Is Username Available

*File Name*: usernameAvailable.php

*Special Notes*:

* Success is determined by the actual status returned. Only a return value of “success” for status will confirm that the username is available.

*Request Parameters*:

* “type” : “EMAIL\_CHECK”
* “email” : <email\_address>

*Response* *Parameters*:

* “status” : one of
  + “success”
  + “failure”
* “message”

*Example POST Data*:

{

"type": "EMAIL\_CHECK",

"email": "fake@user.com"

}

## Add New User

*File Name*: authenticate.php

*Special Notes*:

*Request Parameters*:

* <credentials>
* “type” : “SIGN\_UP”

*Response* *Parameters*:

* “status” : one of
  + “success”
  + “failure”
* “message”

*Example POST Data*:

{

"x302y18": "0cc175b9c0f1b6a831c399e269772661",

"type": "SIGN\_UP",

"x978z54": "a@a.com"

}

# ACKNOWLEDGEMENT Operations

## Acknowledge Response

*File Name*: acknowledgement.php

*Special Notes*:

* Purpose of this is to confirm to the server that the app did, in fact, get whatever the server was pushing. This is critical for staying in sync with the app. For example, when GetNewAnnotationDocuments request is executed, the server should look for anything changed since the last response/acknowledgement. If there is anything, the server needs to track what is being sent for the user to download, and then wait for an acknowledgement that the app successfully processed that data successfully before clearing the mechanism for tracking.
  + If the app has network problems or a crash or something bad while trying to process new data from the server, that shouldn’t be lost forever. The server needs to know to serve the data back up again next time a request is made.

*Request Parameters*:

* <credentials>
* “key” : <GUID> (for object being acknowledged)
* “type” : one of
  + “ANNOTATION\_DOC”
  + “IMAGE\_ANNOTATION”
  + “DRAWING\_ANNOTATION”
  + “CONVO\_ANNOTATION”
  + “CONVO\_MESSAGE”
  + “PARTICIPANT\_EMAIL+CONVO\_ANNOTATION\_KEY”

\*NOTE: The value of the “PARTICIPANT\_EMAIL+CONVO\_ANNOTATION\_KEY” will be in the form of <email>+<GUID>.

*Response* *Parameters*:

* “status”
* “message”

*Example POST Data*:

{

"x302y18": "0cc175b9c0f1b6a831c399e269772661",

"type": "CONVO\_ANNOTATION",

“key”:”C388CEF4-6227-4992-83E0-C3CFB8EA171F”,

"x978z54": "a@a.com"

}