Sony Smart Photobook API

API Guide Version 1.0

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# Introduction

Integrated into Sony’s web-based PlayMemories, Photobook enables a user to upload photos and incorporate them into a Photo Book in a few steps: select images, chose a theme for the Photo Book, preview and confirm the contents. The Smart Photobook API supports these activities and enables users to build and share Photobooks. This guide describes the API focusing on requests, responses, parameters, and code examples.

## Server URLs

Photo book images are stored on a Play Memories server. The API is used to store, maintain, and retrieve images and build Photo Books. See <https://pbk.playmemoriesonline.com/>.

## Request Authentication

Smart Photobook API authenticates requests, checking for acceptable HTTP headers in requests. An API request sends the Shortest Path Bridging (SPB) service ID (sid) and session key (sk) as HTTP headers.

### HTTP Request Headers

sid: X\_SPB\_SID

|  |
| --- |
| Example: S001@1Gikf0\_agent\_S000@1Gikf0\_0e6cf03a-9933-4d8c-a779-8a25ca6af596 |

sk: X\_SPB\_SK

|  |
| --- |
| Example: cbb2e40c3b254f9ea7de3a45636082c3 |

#### Client Applications

Client applications should use Project Management Office (PMO) authentication and the PMOAPI to get both sid and sk.

## Request Format

The API supports both JSON and JSONP formats for responses. The JSONP response requires the HTTP header shown below**.**

### JSONP Responses

A JSONP response sends the following HTTP headers:

X\_JSONP\_CALLBACK: myCallbackName

# Photobook Retrieval

The Photobook Retrieval API is used to define the way the photo list is retrieved and maintained. The API incorporates the List Photobooks, GET Photobook, and Delete Photobook components described below.

**Note**: The first two API components described below, List Photobooks and Get Photobook, are both GETs. Differently, the third component, Delete Photobook (to remove a retrieved Photobook) follows the general syntax pattern for Photobook Creation API components: /services/photobook/\_\_\_\_\_\_\_. Here, \_\_\_\_\_\_\_ specifies the particular component; for example, /services/photobook/deletebatch.

## List Photobooks

The client uses List Photobook to get a list of stored photos. The following section describes request and response formats and shows a code example.

### Request

The Photo Book client sends a GET message to request a Photobook list from the server.

|  |
| --- |
| GET / api/Photobooks |

#### Request Parameters

|  |  |
| --- | --- |
| start: | Start of an index of listed images for a Photo book. Value: numeric. For example: “1”. |
| limit: | Maximum number of photos in the list. Value: numeric. For example: “12”. |

### Response

In response to a Photobook GET request, the server sends back a message to the client containing the Properties listed below.

|  |  |
| --- | --- |
| data(Photobook JSON) |  |
| isRead: | Indicates if the Photobook is read. Value: null, tbd |
| isShared: | Indicates if the Photo book is shared. Value: Boolean: false (default) / true. |
| isCreator: | Indicates if the current user created the Photo book request. Value: Boolean: false / true (default) |
| id: | Numeric identifier of the photo. Value: numeric. For example: “8233”. |
| name: | Image name. Value: alphanumeric. For example: “book”. tbd |
| thumbUrl: | URL of the requested thumbnail picture. |
| coverThumbUrl | URL of the thumb nail image for the requested cover. |
| length : | Number of pages in the Photo book. Value: numeric. For example: “312”. tbd |
| loadlimit: | Load limit of the Photo book. Value: numeric. For example: tbd. |

### Example

The following example shows how to use List Photobooks.

[

{

isRead: null,

isShared: false,

isCreator: true,

thumbUrl: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=193&said=",

id: "8233",

name: " ",

coverThumbUrl: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=193&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9"

},

{

isRead: null,

isShared: false,

isCreator: true,

thumbUrl: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8161&said=",

id: "8115",

name: " ",

coverThumbUrl: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8161&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9"

}

]

## GET Photobook

The client uses GET Photobook to get a specific Photo Book. The following section describes GET Photobook request and response formats and point to a code example in the Appendix.

### Request

The user sends a GET Photobook request with the syntax shown below to the Play Memories server.

|  |
| --- |
| GET /api/photobooks/{photobook\_id} |

#### Request Parameters

None.

### Response

The Play Memories server sends a JSON message back to the user in response to a GET Photobook request.

#### Response Properties

See Response property definitions under List Photobooks, above.

### Example

To see a code example of GET Photobook, see A.2 Example: Get Photobook.

## Delete Photobook

The client uses Delete Photobook (deletebatch) to delete a Photo book from the server. The following section describes Delete Photobook request and response formats and shows a code example.

### Request

The Photo Book client sends a Delete Photobook request with the syntax shown below to the Play Memories server.

|  |
| --- |
| /services/photobook/deletebatch |

#### Request Parameters

|  |  |
| --- | --- |
| ebook\_ids[] : | Photobook identifiers. Value: numeric, comma separated. |
| status: | Current status of the Photobook. Value: numeric. For example, “1”. |

### Response

After a Delete Photobook request, the Play Memories server sends a Result JSON message back to the client identifying the photo book to be deleted and its new status.

### Example

|  |
| --- |
| {     data: {         ebook\_ids: 1,         status: 1     } } |

# Photobook Creation

The Photobook Creation API component is used to create a Photobook. The API incorporates the Get List of Albums, Start Preview, Complete Preview, Page Images, and Generate Theme components described below.

## GET List of Albums

GET List of Albums (getallalbums) is used to get a list all of the user’s stored photo albums. The following section describes the API component’s request format, parameters, and points to a code example.

### Request

|  |
| --- |
| /services/photobook/getallalbums |

### Request Parameters

|  |  |
| --- | --- |
| start: | Start of an index of listed albums. Value: numeric. |
| limit: | Maximum number of albums to get. Value: numeric. |

### Example

For a code example showing how to use GET List of Album, see Appendix section A.2.3 GET List of Albums.

## Start Preview

Start Preview (startpreview) is used to start a preview of a specific Photobook. The following section describes the API component’s request format, parameters, and points to an example.

### Request

|  |
| --- |
| /services/photobook/startpreview |

### Request Parameters

|  |  |  |
| --- | --- | --- |
| title: | Name of the photobook. Value: alphanumeric. For example, “My Album”. | |
| album\_id: | Album ID assigned when the Photobook is created. Value: numeric, size = TBD character spaces (for example, “1234”). | |
| user\_id: | User ID. Value: unique alphanumeric, size = TBD character spaces (for example, “008yq0”). | |
| ebook\_id: | Temporary ID of the ebook. Value: unique alphanumeric ID, size = TBD character spaces (for example, “28994763240yqa9987418”). | |
| singleBook: | True or false. | |
| status: | Current status of the Photobook. Value: numeric. For example, “1”. | |
| id\_array: | Photobook array of values. Alphanumeric. Includes ebook\_id, theme\_id, theme\_index, transaction\_id, and theme\_params where   * theme\_id = Identifies the theme. Alphanumeric. For example, “notebook”. * theme\_index = Index number. Numeric. For example “1”. * transaction­\_id = Identifies the transaction. Alphanumeric. For example, “a:2:{s:13:"transactionId"; s:3:"520"; s:11:"containerId"; s:5:"12388";}” * theme\_params = Photobook theme parameters such as SPBC\_SPREAD\_ASPECT, SPBC\_SPREAD\_MARGIN\_TOP, SPBC\_PHOTO\_SIZE\_LEVEL, etc. | |
| theme\_id: | | Identifies the theme. Value: alphanumeric. For example, “notebook”. |
| theme\_index: | | Index number. Value: numeric. For example “1”. |
| transaction\_id: | | Identifies the transaction. Value: alphanumeric. For example, “a:2:{s:13:"transactionId"; s:3:"520"; s:11:"containerId"; s:5:"12388";}” |
| original\_images: | | Original images in the Photobook identifies by thumbLarge, thumbSmall, and contentId values. |
| debug: [ ] | | Indicates if any Photobook elements are to be debugged. |

### Example

For an example of Start Preview code, see Appendix section A.2.2 Start Preview.

## Complete Preview

Complete Preview (completepreview) is used to check the status of a Photobook creation. The following section describes the API component’s request format, parameters, and points to an example.

### Request

|  |
| --- |
| /services/photobook/completepreview |

### Request Parameters

|  |  |
| --- | --- |
| album\_id: | Album ID assigned when the Photobook is created. Value: numeric, size = TBD character spaces. For example, “10015”. |
| title: | Name of the Photobook. Value: alphanumeric. For example, “2012-04”. |
| original\_images:: | Number of original images in the Photobook. Value: numeric. For example, “312”. |
| ebook\_id: | Temporary ID of the ebook. Value: unique alphanumeric ID, size = TBD character spaces. For example, “28994763240yqa9987418”. |
| theme\_id: | Identifies the theme. Value: alphanumeric. For example, “notebook”. |
| theme\_index: | Index number. Value: numeric. For example “1”. |
| transaction\_id: | Identifies the transaction. Value: alphanumeric. For example, “a:2:{s:13:"transactionId"; s:3:"520"; s:11:"containerId"; s:5:"12388";}” |
| targetStep: | Target step. Value: numeric. For example: “1”. |
| pageCount: | Page count for the Photobook preview. Value: numeric. For example: “3”. |
| jsonData: | JSON data in the Photobook identified by className, format-version, engine\_version, reading\_direction, aspect\_ratio\_spread, and pages. |

### Example

For an example of Complete Preview code, see Appendix section A.2.3 Complete Preview.

## Page Images

Page Images (pageimage) is used to load more Photobook pages for preview. The following section describes the API component’s request format, parameters, and points to an example.

### Request

|  |
| --- |
| /services/photobook/pageimage |

### Request Parameters

|  |  |
| --- | --- |
| ebook\_id: | Temporary ID of the ebook. Value: unique alphanumeric ID, size = TBD character spaces. For example, “28994763240yqa9987418”. |
| theme\_id: | Identifies the theme. Value: numeric. For example, “7”. |
| start: | Number of the first image to be added. Value: numeric. For example, “3”. |
| count: | Number of images to add. Value: numeric. For example, “4”. |
| status: | Current status of page images. Value: numeric. For example: “1”. |
| pages: | Number of pages. Value: comma separated numbers [#,#]. For example, “[2,5]”. |
| theme\_index: | Index number. Value: numeric. For example “1”. |
| currentCreateIndex: | Identifies the current create index. Value: numeric. For example: “7”. |
|  |  |

### Example

The following code example shows how to use Page Images.

|  |
| --- |
| {  status: 1,  data: {  ebook\_id: "72591Gikf01371256414",  theme\_id: "modern",  start: "3",  count: "4",  status: 1,  pages: [ ],  theme\_index: "7",  currentCreateIndex: 7  },  debug: [ ] } |

## Generate Theme

Generate Theme (generatetheme) is used to generate a theme for a Photobook. The following section describes the API component request format, parameters, and shows a code example.

### Request

|  |
| --- |
| /services/photobook/generatetheme |

### Request Parameters

|  |  |
| --- | --- |
| json: | Indicates if the response will be a JSON file. Value = TRUE (default) or FALSE. |
| user\_id: | Unique user ID. Value = alphanumeric, size: TBD character spaces (for example, “1Gikf0”). |
| theme\_id: | Identifies the theme. For example, “0”. |
| title: | Name of the Photobook. For example, “ta”. |
| ebook\_id: | Temporary ID of the ebook. Value = unique alphanumeric, size = TBD character spaces. For example, “28994763240yqa9987418”. |
| album\_title: | Title of the album. For example, “2012-06.’. |

### Example

The following code example shows how to use Generate Theme.

|  |
| --- |
| {  status: 1,  data: {  user\_id: "1Gikf0",  theme\_id: "0",  title: "ta",  ebook\_id: "8375",  album\_title: "ta"  },  debug: [ ] } |

# Photobook Sharing

The Photobook Sharing API is used to share a Photobook with others. The following sections describe the components incorporated into Photobook Sharing including View Photobook Shares, Create Photobook Share, Delete Photobook Share, and Email Photobook.

**Note**: An additional API component, Photobook Editing, will be added in a future release.

## View Photobook Shares

View Photobook Shares (getshared) is used to view a shared Photobook. The following section describes the API component’s request format, parameters, and points to an example.

### Request

|  |
| --- |
| /services/photobook/getshared |

### Request Parameters

|  |  |
| --- | --- |
| user\_id: | Unique user ID. Value = alphanumeric, size: TBD character spaces (for example, “1Gikf0”). |
| ebook\_id: | ebook ID of the shared Photobook. Value = unique alphanumeric, size = TBD character spaces. For example, “123456”. |
| shares: | Photobook images to be shared, identified by classNmae, id, ebook\_id, recipient, type, url location, and limited\_access\_token. |

### Example

For an example of View Photobook Shares code, see A.2.4 View Photobook Shares.

## Create Photobook Share

Create Photobook Share (getshared) is used to view a shared Photobook. The following section describes the API component’s request format, parameters, and shows a code example.

### Request

|  |
| --- |
| /services/photobook/setshared |

### Request Parameters

|  |  |
| --- | --- |
| user\_id: | Unique user ID. Value = alphanumeric, size: TBD character spaces (for example, “1Gikf0”). |
| recipient: | Indicates how the Photobook will be shared. Value = unique alphanumeric, size = TBD character spac |
| url: | Sony Play Memories location for Photobook sharing.  URL:  **[https://pbk.playmemoriesonline.com/photobooks/view/8233](https://pbk.playmemoriesonline.com/photobooks/view/8233?xdm_e=https%3A%2F%2Fplaymemoriesonline.com&xdm_c=default8633&xdm_p=1)**  **[?xdm\_e=https%3A%2F%2Fplaymemoriesonline.com&xdm\_c=default8633&xdm\_p=1](https://pbk.playmemoriesonline.com/photobooks/view/8233?xdm_e=https%3A%2F%2Fplaymemoriesonline.com&xdm_c=default8633&xdm_p=1)** |
| share\_id | Identifies the Photobook share. Value = alphanumeric, size: TBD character spaces. For example, “GBed |
| token: | Unique token associated with the Photobook share. Value: alphanumeric. For example:” fQY9KDVoGyZURUVgBH59-VNToAFPS7oh” |
| shareUrl: | Play Memories URL location of the Photobook share. |

### Example

The following code example shows how to use Create Photobook Share.

|  |
| --- |
| {  data: {  shareId: "GBed@1Gikf0",  shareUrl: "https://playmemoriesonline.com/photobook/preview/8233%3Fa%3Dt%26gid%3DS001%401Gikf0  %26lat%3DfQY9KDVoGyZURUVgBH59-VNToAFPS7oh",  token: "fQY9KDVoGyZURUVgBH59-VNToAFPS7oh",  coverImageUrl: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=193&said=&a=t  &lat=fQY9KDVoGyZURUVgBH59-VNToAFPS7oh&gid=1Gikf0",  status: 1  } } |

## 

## Delete Photobook Share

Delete Photobook Share (removeshared) is used to delete a shared Photobook. The following sections describe the API component, focusing on request format, parameters, and a code example.

### Request

|  |
| --- |
| /services/photobook/removeshared |

### Request Parameters

|  |  |
| --- | --- |
| share\_id: | Identifies the share. Value = alphanumeric, size: TBD character spaces (for example, “GBed@1Gikf0”). |
| share\_url: | Play Memories URL location for the Photobook to be shared. |
| token: | Token associated with share. Value = alphanumeric, size: TBD character space. For example, “fQY9KDVoGyZURUVgBH59-VNToAFPS7oh”. |
| status: | Indicates the current status of the share. Value = numeric, size: For example, “1”. |
| coverImageUrl: | URL location for the image on the share cover. |
| user\_id: | Unique user ID. Value = alphanumeric, size: TBD character spaces. For example, “1Gikf0”. |
| ebook\_id: | ebook ID of the shared Photobook to be deleted. Value = unique alphanumeric, size = TBD character spaces. For example, “8233”. |
| shares[ ]: | Identifies the shares. Value = [ , ] comma separated, alphanumeric. For example, “[3,5]”. TBD |

### Example

The following code example shows how to use Delete Photobook Share.

|  |
| --- |
| {  data: {  shareId: "GBed@1Gikf0",  shareUrl: "https://playmemoriesonline.com/photobook/preview/8233%3Fa%3Dt%26gid%3DS001%401Gikf0  %26lat%3DfQY9KDVoGyZURUVgBH59-VNToAFPS7oh",  token: "fQY9KDVoGyZURUVgBH59-VNToAFPS7oh",  coverImageUrl: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=193&said=&a=t  &lat=fQY9KDVoGyZURUVgBH59-VNToAFPS7oh&gid=1Gikf0",  status: 1  } } |

## Email Photobook

Email Photobook is used to email a selected Photobook. The following sections describe the API component, focusing on request format, parameters, and a code example.

### Request

|  |
| --- |
| /services/photobook/email |

### Request Parameters

|  |  |
| --- | --- |
| ebook\_id: | ebook ID of the Photobook. Value = unique alphanumeric, size = TBD character spaces. For example, “8233”. |
| recipients[]: | Identifies the first email recipient. Value = recipient email address. For example: [aaa@a.com](mailto:aaa@a.com). |
| recipients[]: | Identifies the second email recipient. Value = recipient email address. For example: [bbbb@b.com](mailto:bbbb@b.com). |
| recipients[]: | Identifies the third email recipient. Value = recipient email address. For example: [ccc@c.com](mailto:ccc@c.com). |
| subject: | Identifies the email subject. Value = numeric, size: \_\_\_. For example, “New photobook from Hal”. |
| message: | Email message content. Value = alphanumeric, size: \_\_\_. |
| status: | Indicates the current status of the share. Value = numeric, size:\_\_\_. For example, “1”. |
| email: | Identifies the email by className and indicates if it has attachments. For example, “\_\_className: "Zend\_Mail", hasAttachments: false”. |

### Example

The following code example shows how to use Email Photobook.

|  |
| --- |
| {  data: {  status: 1,  email: {  \_\_className: "Zend\_Mail",  hasAttachments: false  },  ebook\_id: "8233"  } } |

## Photobook Editing

This API component is not currently supported.

# Appendix

These sections provide additional information about the Sony Smart Photobook API.

## A.1 Smart Photobook API Error Codes

The following table lists Smart Photobook API error codes and provides the meaning or a suggestion for each.

|  |  |
| --- | --- |
| **Error Code** | **Meaning / Suggestions** |
| tbd | Error code have not been finalized. |
|  |  |
|  |  |
|  |  |
|  |  |

## A.2 Smart Photobook API Code Examples

This Appendix section presents code examples for the API components that are not shown in API component descriptions shown above.

* Get Photobook
* GET List of Albums
* Start Preview
* Complete Preview
* View Photobook Shares

### A.2.1 GET Photobook

This example shows how GET Photobook is used to retrieve Photobooks.

{  
    id: "8233",  
    user\_id: null,  
    name: " ",  
    created: null,  
    modified: null,  
    json: {Get Photobook  
        format\_version: "1.0.0",  
        engine\_version: "1.0.225",  
        reading\_direction: "from\_left",  
        aspect\_ratio\_spread: "1.500000",  
        pages: [  
            {  
                title: "cover",  
                index: 0,  
                images: [  
                    {  
                        spreadNum: 0,  
                        pageNum: 0,  
                        title: "cover",  
                        mimetype: "image/jpeg",  
                        data: null,  
                        filename: "cover.jpg",  
                        cache\_key: "72591Gikf013711802750d45910b3a8a47607e323793ba6effa7",  
                        url: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8234&said=&sid=S001

@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9",  
                        thumbnail: false,  
                        outputfile: "/tmp/imagick\_tmp\_dir\_72591Gikf01371180275/cover.jpg",  
                        contentId: "8234"  
                    }  
                ],  
                elements: [  
                    {  
                        type: "background",  
                        tile: {  
                            fileUri: "/images/backgrounds/notebook/cover-front.png",{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                            clipX: 0,  
                            clipY: 0,  
                            clipH: 1,  
                            clipW: 1,  
                            tiled: 0  
                        }  
                    },  
                    {{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                        index: 1,  
                        type: "image",  
                        image: {  
                            imageX: 0.179549611,  
                            imageY: 0.026604796,  
                            imageR: "-10",{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                            anchorX: "middle",  
                            anchorY: "middle",  
                            hasClipping: true,  
                            clipX: "0.22",  
                            clipY: "0.13",  
                            clipW: "0.523",  
                            clipH: "0.402",{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                            imageRank: "0",  
                            contentId: "7260",  
                            thumbSmall: "7264",  
                            thumbLarge: "7265",  
                            imageH: 0.676140282,  
                            imageW: 0.563450389,  
                            clipR: "-10"  
                        }  
                    },  
                    {  
                        index: 2,  
                        type: "text",  
                        text: {  
                            uppercase: false,  
                            textX: "0.23",  
                            textY: "0.78",  
                            font\_weight: "regular",  
                            font\_size: 0.055555555555556,  
                            font\_style: "normal",  
                            family: "BebasNeue",  
                            color: "#333333",  
                            text\_anchor: "start",  
                            opacity: "1",{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                            charWrap: "15",  
                            text: "ta",  
                            font\_page\_height: 900  
                        }  
                    }  
                ],  
                originalWidth: 600,  
                originalHeight: 800  
            },  
            {  
                index: 1,  
                layout\_option: 0,  
                originalWidth: 1200,  
                originalHeight: 800,  
                title: "Created01",  
                images: [  
                    {  
                        spreadNum: 1,  
                        pageNum: 1,  
                        title: "Created01\_left",  
                        mimetype: "image/jpeg",  
                        data: null,  
                        filename: "Created01\_left.jpg",  
                        cache\_key: "72591Gikf0137118027584ed5d17694f8e6c58c550a1582a0bb8",  
                        url: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8235&said=&sid=S001

@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9",  
                        thumbnail: false,{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                        outputfile: "/tmp/imagick\_tmp\_dir\_72591Gikf01371180275/Created01\_left.jpg",  
                        contentId: "8235"  
                    },  
                    {  
                        spreadNum: 1,  
                        pageNum: 2,  
                        title: "Created01\_right",  
                        mimetype: "image/jpeg",  
                        data: null,  
                        filename: "Created01\_right.jpg",  
                        cache\_key: "72591Gikf013711802759498ccd76f32c17e821e4977c0a4ab3b",  
                        url: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8236&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9",  
                        thumbnail: false,  
                        outputfile: "/tmp/imagick\_tmp\_dir\_72591Gikf01371180275/Created01\_right.jpg",  
                        contentId: "8236"  
                    }  
                ],{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                elements: [  
                    {  
                        type: "background",  
                        tile: {  
                            fileUri: "/images/backgrounds/notebook/inside.png",  
                            clipX: 0,  
                            clipY: 0,  
                            clipH: 1,  
                            clipW: 1,  
                            tiled: 1  
                        }  
                    },  
                    {  
                        index: 1,{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                        type: "image",  
                        zindex: "2",  
                        image: {  
                        imageX: 0.537,  
                        imageY: -0.0021591,  
                        imageW: 0.426,  
                        imageH: 1.0223999,  
                        opacity: 1,  
                        areas: [ ],  
                        contentId: "7297",  
                        thumbSmall: "7301",  
                        thumbLarge: "7302",  
                        clipX: 0.537,  
                        clipY: 0.2,{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                        clipW: 0.426,  
                        clipH: 0.67,  
                        hasClipping: true,  
                        clipR: 0,  
                        imageR: 0,  
                        noFace: { },  
                        score: 0  
                    },  
                    border: {  
                        type: "tiled",  
                        imageBaseUri: "/images/borders/notebook/",  
                        overflow: 61,  
                    width: 62  
                    },  
                    background: {  
                        fill: "#FFFFFF"  
                    }  
                    },  
                    {  
                        index: 0,  
                        type: "image",  
                        zindex: "1",  
                        image: {  
                            imageX: 0.000113938,  
                            imageY: 0.03486577,  
                            imageW: 0.462886062,  
                            imageH: 1.110927,  
                            opacity: 1,  
                            areas: [ ],  
                            contentId: "7260",  
                            thumbSmall: "7264",  
                            thumbLarge: "7265",  
                            clipX: 0.037,  
                            clipY: 0.2,  
                            clipW: 0.426,  
                            clipH: 0.67,  
                            hasClipping: true,  
                            clipR: 0,  
                            imageR: 0,  
                            noFace: { },  
                            score: 0  
                        },  
                        border: {  
                            type: "tiled",  
                            imageBaseUri: "/images/borders/notebook/",  
                            overflow: 61,  
                            width: 62  
                        },  
                        background: {  
                            fill: "#FFFFFF"  
                        }  
                    }  
                ]  
            },  
            {{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                title: "backCover",  
                index: 2,  
                images: [  
                    {  
                        spreadNum: 2,  
                        pageNum: 3,  
                        title: "backCover",  
                        mimetype: "image/jpeg",  
                        data: null,  
                        filename: "backCover.jpg",  
                        cache\_key: "72591Gikf0137118027594028ffec34bfc70cf738e6efe945b53",  
                        url: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8237&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9",  
                        thumbnail: false,  
                        outputfile: "/tmp/imagick\_tmp\_dir\_72591Gikf01371180275/backCover.jpg",  
                        contentId: "8237"  
                    }  
                ],  
                elements: [  
                    {  
                        type: "background",  
                        tile: {  
                            fileUri: "/images/backgrounds/notebook/cover-back.png",  
                            clipX: 0,  
                            clipY: 0,  
                            clipH: 1,  
                            clipW: 1,  
                            tiled: 0  
                        }  
                    }  
                ],  
                originalWidth: 600,{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                originalHeight: 800  
            }  
        ],  
        meta: {  
            author: "",  
            title: "ta",  
            description: "",  
            theme\_id: "notebook",  
            album\_id: "7259",  
            cover\_image: {  
                url: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=8234&said=",  
                contentId: "8234"  
            },  
            theme\_container\_id: null,  
            creator: "1Gikf0"{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
        },  
        album\_photos: [  
            {  
                thumbLarge: "7310",  
                thumbSmall: "7309",  
                contentId: "7305"  
            },  
            {  
                thumbLarge: "7302",  
                thumbSmall: "7301",  
                contentId: "7297"  
            },  
            {  
                thumbLarge: "7294",  
                thumbSmall: "7293",  
                contentId: "7289"  
            },  
            {{  
    data: {  
        ebook\_ids: 1,  
        status: 1  
    }  
}  
                thumbLarge: "7286",  
                thumbSmall: "7285",  
                contentId: "7281"  
            },  
            {  
                thumbLarge: "7273",  
                thumbSmall: "7272",  
                contentId: "7268"  
            },  
            {  
                thumbLarge: "7265",  
                thumbSmall: "7264",  
                contentId: "7260"  
            }  
        ],  
        aspect\_ratio: 0.75,  
        disableCoverEdits: true  
    },  
    preview\_url: "https://pbk.playmemoriesonline.com/photobooks/8233",  
    preview\_image: null,  
    is\_read: null,  
    is\_shared: false,  
    is\_creator: true,  
    is\_valid\_json: true,  
    cover\_thumb\_id: "8234",  
    cover\_thumb\_url: "https://alg.ndmdhs.com/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=193&said=&sid=S001

@1Gikf0\_agent\_S000@1Gikf0\_5bfc12fe-a02e-47e6-b59d-9725db9df3e9",  
    photos: null,  
    videos: null,  
    status: null  
}

### A.2.2 GET List of Albums

This example shows how GET List of Albums is used to get a list of the user’s albums of Photobook images.

{  
{"status":1,"data":{"start":0,"albums":"[{\"id\":\"10898\",\"name\":\"2012-02\",\"photos\":[{\"id\":\"12379\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=12383&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"12371\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=12375&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"12363\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=12367&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"12355\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=12359&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"}]},{\"id\":\"10809\",\"name\":\"2012-03\",\"photos\":[{\"id\":\"11587\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=11591&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"11579\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=11583&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"11571\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=11575&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"11563\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=11567&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"}]},{\"id\":\"10015\",\"name\":\"2012-04\",\"photos\":[{\"id\":\"10737\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=10741&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"10729\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=10733&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"10721\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=10725&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"10713\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=10717&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"}]},{\"id\":\"9214\",\"name\":\"2012-05\",\"photos\":[{\"id\":\"10007\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=10011&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"9999\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=10003&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"9991\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=9995&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"},{\"id\":\"9983\",\"thumbnail\":\"https:\\\/\\\/alg.ndmdhs.com\\\/component?a=s&f=r&i=x&cs=pt&gid=1Gikf0&oid=9987&said=&sid=S001@1Gikf0\_agent\_S000@1Gikf0\_0260e50a-b0e1-4370-b169-11cdf8042002\"}]}]","totalPhotos":16,"batchSize":10,"totalAlbumsCount":4},"debug":[]}  
}

### A.2.3 Start Preview

This example shows how Start Preview is used to start a preview of a user’s Photobook.

{  
 status: 1,  
 data: {  
 title: "ta",  
 album\_id: "7259",  
 ebook\_id: "72591Gikf01371253034",  
 id\_array: [  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "travel",  
 theme\_index: 0,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"289";s:11:"containerId";s:4:"8306";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 2,  
 SPBC\_SPREAD\_ASPECT: "1500000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "71300",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "71300",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "50000",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "54200",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "23400",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "65600",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "3",  
 SPBC\_PHOTO\_NUM\_MAX: "5",  
 SPBC\_PHOTO\_NUM\_MIN: "1",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "1",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "500",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "500",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "417000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "1",  
 SPBC\_LAYOUT\_FULL\_PAGE: "0",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "650000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "notebook",  
 theme\_index: 1,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"290";s:11:"containerId";s:4:"8307";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 1,  
 SPBC\_SPREAD\_ASPECT: "1500000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "200000",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "130000",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "37000",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "37000",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "50000",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "100000",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "8",  
 SPBC\_PHOTO\_NUM\_MAX: "8",  
 SPBC\_PHOTO\_NUM\_MIN: 2,  
 SPBC\_PHOTO\_SIZE\_LEVEL: "0",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "0",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "1000",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "1050000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "900000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "0",  
 SPBC\_LAYOUT\_FULL\_PAGE: "0",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "1050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "900000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "0"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "kids",  
 theme\_index: 2,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"291";s:11:"containerId";s:4:"8308";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 1,  
 SPBC\_SPREAD\_ASPECT: "2000000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "47100",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "52900",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "24400",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "24400",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "8800",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "17700",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "6",  
 SPBC\_PHOTO\_NUM\_MAX: "8",  
 SPBC\_PHOTO\_NUM\_MIN: "2",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "1",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "500",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "500",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "417000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "3",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "0",  
 SPBC\_LAYOUT\_FULL\_PAGE: "0",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "450000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "crafty",  
 theme\_index: 3,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"292";s:11:"containerId";s:4:"8309";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 1,  
 SPBC\_SPREAD\_ASPECT: "2667000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "140000",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "140000",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "40000",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "40000",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "25000",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "55000",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "7",  
 SPBC\_PHOTO\_NUM\_MAX: "11",  
 SPBC\_PHOTO\_NUM\_MIN: "2",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "1",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "1000",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "4",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "1000",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "500",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "600000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "0",  
 SPBC\_LAYOUT\_FULL\_PAGE: "0",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "650000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "100",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "hipster",  
 theme\_index: 4,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"293";s:11:"containerId";s:4:"8310";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 2,  
 SPBC\_SPREAD\_ASPECT: "1500000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "71300",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "71300",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "50000",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "54200",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "31700",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "47500",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "3",  
 SPBC\_PHOTO\_NUM\_MAX: "5",  
 SPBC\_PHOTO\_NUM\_MIN: "2",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "1",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "0",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "0",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "417000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "1",  
 SPBC\_LAYOUT\_FULL\_PAGE: "0",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "650000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "classic",  
 theme\_index: 5,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"294";s:11:"containerId";s:4:"8311";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 2,  
 SPBC\_SPREAD\_ASPECT: "2667000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "83000",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "83000",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "31300",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "31300",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "12500",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "33300",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "3",  
 SPBC\_PHOTO\_NUM\_MAX: "4",  
 SPBC\_PHOTO\_NUM\_MIN: "2",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "1",  
 SPBC\_PHOTO\_AREA\_RATIO: "70",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "0",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "0",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "600000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "1",  
 SPBC\_LAYOUT\_FULL\_PAGE: "1",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "650000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "simple",  
 theme\_index: 6,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"295";s:11:"containerId";s:4:"8312";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 3,  
 SPBC\_SPREAD\_ASPECT: "2667000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "180000",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "180000",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "65000",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "65000",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "20000",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "30000",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "2",  
 SPBC\_PHOTO\_NUM\_MAX: "4",  
 SPBC\_PHOTO\_NUM\_MIN: "1",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "1",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "500",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "500",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "600000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "1",  
 SPBC\_LAYOUT\_FULL\_PAGE: "1",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "650000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 },  
 {  
 \_\_className: "stdClass",  
 ebook\_id: "72591Gikf01371253034",  
 theme\_id: "modern",  
 theme\_index: 7,  
 transaction\_id: "a:2:{s:13:"transactionId";s:3:"296";s:11:"containerId";s:4:"8313";}",  
 theme\_params: {  
 SPBC\_SPREAD\_NUM\_MAX: 1,  
 SPBC\_SPREAD\_ASPECT: "2000000",  
 SPBC\_SPREAD\_MARGIN\_TOP: "0",  
 SPBC\_SPREAD\_MARGIN\_BOTTOM: "0",  
 SPBC\_SPREAD\_MARGIN\_OUTSIDE: "0",  
 SPBC\_SPREAD\_MARGIN\_INSIDE: "0",  
 SPBC\_SPREAD\_MARGIN\_VARIATION: "0",  
 SPBC\_PHOTO\_GAP\_HORIZONTAL: "0",  
 SPBC\_PHOTO\_GAP\_VERTICAL: "0",  
 SPBC\_PHOTO\_NUM\_AVERAGE: "5",  
 SPBC\_PHOTO\_NUM\_MAX: "8",  
 SPBC\_PHOTO\_NUM\_MIN: "2",  
 SPBC\_PHOTO\_SIZE\_LEVEL: "3",  
 SPBC\_PHOTO\_AREA\_RATIO: "100",  
 SPBC\_PHOTO\_ROTATION\_INCIDENCE: "0",  
 SPBC\_PHOTO\_ROTATION\_DEG\_MAX: "0",  
 SPBC\_PHOTO\_TRANSLATION\_LEVEL: "0",  
 SPBC\_PHOTO\_SCALING\_LEVEL: "0",  
 SPBC\_PHOTO\_REST\_RATIO: "50",  
 SPBC\_PHOTO\_ASPECT\_MAX: "3000000",  
 SPBC\_PHOTO\_ASPECT\_MIN: "417000",  
 SPBC\_PHOTO\_SORTING\_MODE: "0",  
 SPBC\_PHOTO\_FRAMING\_MODE: "4",  
 SPBC\_PHOTO\_FRAMING\_ZOOM\_LIMIT: "1300",  
 SPBC\_PHOTO\_SCORING\_MODE: "0",  
 SPBC\_LAYOUT\_SPREAD\_THRESHOLD: "1",  
 SPBC\_LAYOUT\_FULL\_PAGE: "0",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MAX: "2050000",  
 SPBC\_LAYOUT\_UNIT\_ASPECT\_MIN: "650000",  
 SPBC\_CONTINUOUS\_SHOTS: "1",  
 SPBC\_RATING\_WEIGHT: "1",  
 SPBC\_RANDOM\_SEED: "0",  
 SPBC\_PHOTO\_ADDITIONAL\_OVERLAP: "0",  
 SPBC\_PHOTO\_NUM\_VARIATION: "1"  
 }  
 }  
 ],  
 original\_images: [  
 {  
 thumbLarge: "7310",  
 thumbSmall: "7309",  
 contentId: "7305"  
 },  
 {  
 thumbLarge: "7302",  
 thumbSmall: "7301",  
 contentId: "7297"  
 },  
 {  
 thumbLarge: "7294",  
 thumbSmall: "7293",  
 contentId: "7289"  
 },  
 {  
 thumbLarge: "7286",  
 thumbSmall: "7285",  
 contentId: "7281"  
 },  
 {  
 thumbLarge: "7273",  
 thumbSmall: "7272",  
 contentId: "7268"  
 },  
 {  
 thumbLarge: "7265",  
 thumbSmall: "7264",  
 contentId: "7260"  
 }  
 ]  
 },  
 debug: [ ]  
}

### A.2.4 Complete Preview

This code example shows how Complete Preview is used to end a preview of a user’s Photobook.

{  
 status: 1,  
 data: {  
 theme\_id: "travel",  
 theme\_index: "0",  
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### A.2.5 View Photobook Shares

The following code example code shows how to use View Photobook Shares.

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