Preference Center Application Programming Interface (API) Deliverables For Release 1

# Purpose

This document defines the application programming interface (API) deliverables for the preference center release 1.

# High Level API Deliverables

This section contains the deliverable highlights for several key points. It does not fully describe the API implementation. The API implementation is discussed in detail in the sections that follow.

## Administration Resources

1. The following resources shall have methods to allow creation, selection, update, and delete operations.

* Contact
* Brand
* Communication Channel
* Frequency

## Users

1. Only registered, MDM users shall be able to use the preference center for this release. All information is associated to the MDM contact id of the authenticated user.

## Communication Preferences

1. Channels of communication with contacts shall be supported for SMS, email, catalogue and reminders. Future expansion for additional channels will be supported. Frequency of communication shall be configurable at the brand and channel level. Frequency is customizable to support daily, weekly, monthly etc. Ranking of frequency is supported at the communication channel level. Ranking of brands is supported at the enterprise level.

# Application Programming Interface (API)

This section describes the request and response interfaces for the preference center API. JSON data over a REST implementation shall be used. Resources shall be depicted by following a Uniform Resource Identifier (URI) construct. The preference center API shall be identified by the following URI prefix for all method calls:

* https://casregservices. genericco.int/api/preferencecenter

## Uniform Interface

HTTP provides four basic methods for the four most common operations. All four shall be used for the preference center implementation:

* Retrieve a representation of a resource: HTTP GET
* Create a new resource: HTTP PUT to a new URI, or HTTP POST to an existing URI (i.e. adding to a collection).
* Modify an existing resource: HTTP PUT to an existing URI. This shall be idempotent.
* Delete an existing resource: HTTP DELETE. This shall be idempotent.

### API Operations

This section describes all of the operations that are included within the preference center API.

NOTE: [host] refers to [https://casregservices. genericco.int/api/preferencecenter](https://casregservices.1800Flowers.int/api/preferencecenter)

### Administrative Resources

This section describes the methods that should be considered as administrative. For example, a normal user or customer should not be able to define new brands, communication channels, etc.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 1 | Brand | PUT | /brands/{code} | {  "brand": {  "description": "Generic",  "rank": 1,  "active": "Y",  "visible": "Y"  }  } | None | 201 Created  Location: [new uri] | Creates a new Brand |
| 2 | Brand | DELETE | /brands/{code} | None | None | 204 No Content | Marks a brand as inactive. |
| 3 | Brand | GET | /brands | None | {  "brands": [{  "brand": {  "code": "GCWS",  "description": "Generic",  "rank": 1,  "active": "Y",  "visible": "Y"  },  "brand": {  "code": "FAN",  "description": "Brand Inert",  "rank": 2,  "active": "Y",  "visible": "Y"  }  }]  } | 200 OK | Retrieve a list of brands |
| 4 | Brand | GET | /brands/{code} | None | {  "brand": {  "code": "GCWS",  "description": "Generic",  "rank": 1,  "active": "Y",  "visible": "Y"  }  } | 200 OK | Retrieves a brand |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 5 | Brand | POST | /brands/{code} | {  "brand": {  “code”: “GCWS”,  "description": "Generic",  "rank": 1,  "active": "N",  "visible": "Y"}  } | None | 204 No Content | Updates a brand |
|  | Communication Channel | PUT | /communicationchannels/ {code} | {  "communicationchannel": {  "description": "email",  “rank”: 1,  "active": "Y",  "visible": "Y"  }  } | None | 201 Created [new uri] | Create a new communication channel |
| 7 | Communication Channel | DELETE | /communicationchannels/ {code} | None | None | 204 No Content | Mark a communication channel, inactive |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 8 | Communication Channel | GET | /communicationchannels | None | {  "communicationchannels": [{  "communicationchannel": {  "code": "EM",  "description": "email",  “rank”: 1,  "active": "Y",  "visible": "Y"  },  “communicationchannel": {  "code": "SMS",  "description": "SMS Text Message",  “rank”: 1,  "active": "Y",  "visible": "Y"  }  }]  } | 200 OK | Retrieve a list of communication channels |
| 9 | Communication Channel | GET | /communicationchannels/{code} | None | } "communicationchannel": {  "code": "EM",  "description": "email",  “rank”: 1,  "active": "Y",  "visible": "Y"  }} | 200 OK | Retrieve a communication channel |
| 10 | Communication Channel | POST | /communicationchannels/ {code} | {  "communicationchannel": {  “code”: “EM”,  "description": "email",  “rank”: 1,  "active": "Y",  "visible": "Y"  }  } | None | 204 No Content | Update an existing communication channel |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 11 | Frequency | PUT | /frequencies/{code} | {  “frequency”:  {  “description” : “monthly”  }} | None | 201 Created  Location: [new uri] | Create a new frequency |
| 12 | Frequency | DELETE | /frequencies/{code} | None | None | 204 No Content | Mark a frequency as inactive |
| 13 | Frequency | GET | /frequencies | None | {  "frequencies": [{  "frequency": {  "code": "MON",  "description": "Monthly"  },  "frequency": {  "code": "WEEK",  "description": "Weekly"  }  }]  } | 200 OK | Retrieve a list of frequencies |
| 14 | Frequency | GET | /frequencies/{code} | None | {  "frequency": {  "code": "MON",  "description": "Monthly"  }  } | 200 OK | Retrieve a frequency |
| 15 | Frequency | POST | /frequencies/{code} | {  “frequency”:  {  “code”: “MON”,  “description” : “monthly”  }} | None | 204 No Content | Update a frequency |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 16 | Communication Channel Frequency | POST | /communicationchannelfrequencies | {  “communicationchannelcode”: “EM”,  “frequencycode”: “MN”,  “rank”: 3,  “active”: “Y”,  “visible” : 1  }  } | None | 201 Created  Location:[new uri] | Create a communication channel frequency |
| 17 | Communication Channel Frequency | DELETE | /communicationchannelfrequencies/{id} | None | None | 204 No Content | Mark a communication channel frequency as inactive |
| 18 | Communication Channel Frequency | GET | /communicationchannelfrequencies | None | {  "communicationchannelfrequencies": [{  " communicationchannelfrequency ": {  “id”: 2,  “communicationchannelcode”: “EM”,  “communicationchanneldesc”: “email”,  “frequencycode”: “MN”,  “frequencydesc”: “Monthly”  “rank”: 3,  “active”: “Y”,  “visible” : 1  }  }]  } | 200 OK | Get a list of all communication channel frequencies |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 19 | Communication Channel Frequency | GET | /communicationchannelfrequencies/{id} | None | {  "communicationchannelfrequency": {  “id”: 2,  “communicationchannelcode”: “EM”,  “communicationchanneldesc”: “email”,  “frequencycode”: “MN”,  “frequencydesc”: “Monthly”  “rank”: 3,  “active”: “Y”,  “visible” : 1  }  } | 200 OK | Get a communication channel frequency |
| 20 | Communication Channel Frequency | POST | /communicationchannelfrequencies/{id} | {  “id”: 2,  “communicationchannelcode”: “EM”,  “frequencycode”: “MN”,  “rank”: 3,  “active”: “Y”,  “visible” : 1  }  } | NA | 204 No Content | Update a communication channel frequency |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 21 | Contact | PUT | /contacts/{contactId} | {  "contact": {  "active": "Y",  “usermodified” : “system”,  “email” : “[joe.smo@email.com](mailto:joe.smo@email.com)”,  “value” : “440-213-1234”  }  } | None | 201 Created  [new uri] | Create a new contact |
| 22 | Contact | DELETE | /contacts/{contactId} | None | None | 204 No Content | Mark a contact as inactive |
| 23 | Contact | GET | /contacts/{contactId} | None | {  "contact": {  “identifier”: 125368745,  "datemodified": "12/01/15",  "usermodified": "system",  "active": "Y",  “email” : “[joe.smo@email.com](mailto:joe.smo@email.com)”,  “value” : “440-213-1234” }  } | 200 OK | Retrieve a contact base on the unique id |
| 24 | Contact | POST | /contacts/{contactId} | {  "contact": {  "active": "N",  “usermodified” : “system”,  “email” : “[joe.smo@email.com](mailto:joe.smo@email.com)”,  “value” : “440-213-1234”  }  } | None | 204 No Content | Update a contact |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 25 | Brand Communication | PUT | /contacts/{id}/communicationchannels/{code}/brands/{code} | {  " brandcommunication": {  "frequencycode": "MN",  "value": "6314548789"  }  } | NA | 201 Created  Location: [new uri] | Create a brand communication. The value depends on the type of communication. Ex. If SMS then value is the phone number, if email then the value is the email address. Assumption is that the data has already been validated by the client. |
| 26 | Brand Communication | GET | /contacts/{id}/communicationchannels/brands/{code} | None | {  " brandcommunications": [{  " brandcommunication": {  "code": "EM",  "description": "email",  "value": "myemail.com",  “frequency”: “MN”,  “rank”: 1,  "active": "Y",  "visible": "Y"  },  " brandcommunication": {  "code": "SMS",  "value": "6312548789",  "description": "SMS Text Message",  “rank”: 1,  "active": "Y",  "visible": "Y"  } }]} | 200 OK | Get a specific brand communications for a contact |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item #** | **Resource** | **Method** | **URI** | **Request Body** | **Response Body** | **Response Header** | **Purpose** |
| 27 | Brand Communication | GET | /contacts/{id}/communicationchannels/{code}/brands/{code} | None | {  " brandcommunication": {  “frequency”: “WK”,  "code": "EM",  "description": "email",  "value": "myemail.com",  “rank”: 1,  "active": "Y",  "visible": "Y"  }  } | 200 OK | Get a brand communication |
| 28 | Brand Communication | DELETE | /contacts/{id}/communicationchannels/{code}/brands/{code} | None | None | 204 No Content | Mark a brand communication as inactive |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | Brand Communication | POST | /contacts/{id}/communicationchannels/{code}/brands/{code}/brandcommunications/{id} | {  " brandcommunication": {  "frequencycode": "WK",  "value": "6314548789"  }  } | N/A | 204 No Content | Update a brand communication |
| 30 | Brand Communication | GET | /contacts/{id}/communicationchannels/brands | None | {  "brands": [{  "brand": {  "code": "GCWS",  "description": "Generic",  "rank": 1,  "active": "Y",  " brandcommunications": [{  "brandcommunication": {  "id": 2563,  "code": "EM",  "description": "email",  "value": "myemail.com",  "frequency": "MN",  “rank”: 1,  "active": "Y",  "visible": "Y"  },  " brandcommunication": {  "id": 23698,  "code": "SMS",  "value": "6312548789",  "description": "SMS Text Message",  “rank”: 1,  "active": "Y",  "visible": "Y"  }  }]  }  }]  } | 200 OK | Get all brand communications. |

## Change Log

|  |  |  |
| --- | --- | --- |
| Date | Changes\_by | Description |
| 2/29/2016 | Casmon Gordon | Modified document so that PUT is used for create requests and POST for all update requests. |
| 2/29/2016 | Casmon Gordon | Changed rank values to be integer. (removed quotes around values) |
| 2/29/2016 | Casmon Gordon | Changed active and visible values to be either “Y” or “N”. Removed references to integer 1. |
| 2/29/2016 | Casmon Gordon | For communication channel get all request remove {id} from URI as this is not needed. (item 18) |
| 2/29/2016 | Casmon Gordon | Added email and value to contact requests/responses and also contact logical object (per discussion with Ian Rugrat) |
|  |  |  |
|  |  |  |
|  |  |  |