Hubster.io Documentation

Release 1.0.0

Hubster.io

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Hubster is an open-ended *Unified Message Platform as a Service* (**PaaS**) and like all good platforms, we try our best to adhere to industry standards and best practices.

So, what is meant by an **Open-ended** platform? An open-end platform allows a business to extend the platform by enabling the business to bring in their own integration or plugins.

At Hubster, we provide following ways on how you can extend our platform:

Integration (BYOI):

If you have an integration that Hubster does not currently support or it is unique to your business, you can easily add it to the mix using our direct API. There are no limits on how many customer, agent, bot, or CRM integrations you can add.

Pipeline plugins (BYOP)

Businesses can control the message pipeline by injecting their custom plugins. You can enrich messages, alter, or even control the follow how messages are redirected to any given participant involved in the conversation.

Webhooks

Businesses can add their own webhooks and will only be triggered based on *filter rules*. This is a great way to monitor certain activities that are important to the business. It should be noted that standard Webhooks are based on a one-way communication protocol know as *fire-and-forget*.

Dynamic Commands

Dynamic commands are a powerful concept allowing agents and/or bots through simple text, instruct Hubster to invoke your backend service to formulate the appropriate response. For example, if your business provides a command to a list a line of clothing specific to the user's profile, your system can check to see what are the best options and construct a targeted response that is meaningful to the end user.

Our *APIs* are designed using **REST** principles and most of our payloads are structured using **JSON**. Any exception to this rule will be noted where necessary.

Note: Hubster APIs incorporate cross-origin resource sharing (**CORS**) whereby facilitating web applications to freely use our API in an authenticated and secure manner.

Please help us make this experience even better

If you find any errors or a section is not as clear or lacking details, please don't hesitate to contact us at support@hubster.io

Introduction 1

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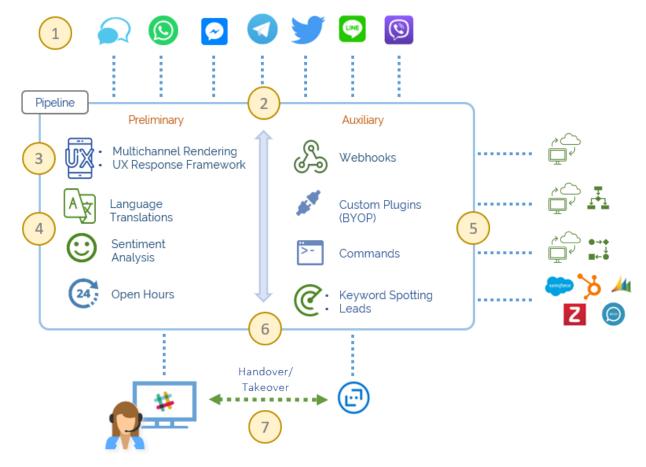
CHAPTER 1

The Big Picture

1.1 High Level Architecture

Hubster's **open-ended** platform was designed for simplicity, yet power enough to allow a business to extend the platform to meet their specific needs, on a per *hub* basis. Being **open-end** provides a business the flexibility to enrich the messaging pipeline by injecting their own custom *integrations and plugins*.

Engine



Hubster's Engine workflow and feature annotation:

- 1. A customer channel initiates a conversation with the engine
- 2. The engine reads the channel's hub configuration and starts the pipeline workflow
- 3. The pipeline *reverse engineers* the channel's proprietary format and constructs a common Hubster format known as an **activity**
- 4. Based on the hub's configuration and channel *source type*, the pipeline determines the appropriate **preliminary** flow actions required
- 5. The pipeline then determines the appropriate auxiliary flow actions required
- 6. Once both **preliminary** and **auxiliary** flows have been executed, the pipeline then determines the **active business destination** and reverse engineers the activity to the proprietary format specific to the destination source agent or bot
- 7. The agent may initiate a **takeover** from a bot, handles the request, and eventually hands the conversation back to the bot. Conversely, if the bot has difficulty handling a request, the bot can initiate a **handover** and redirect the conversation to the agent.

1.2 The Hub Anatomy

At Hubster, a **hub** (hence our company name), is the center where all configurations are managed and stored. Hubs are used by engine's *pipeline* which drives the workflows and what actions are taken. A business can create as many hubs

needed, with each having a specific configuration for a given business segment. For example, a business can create hubs for various lines-of-businesses, campaigns, events, and more.



TODO: Hub Integration with image

1.2.1 Customer Channels

TODO

1.2.2 Business Channels

- Agents
- Bots
- · Handover rules

1.2.3 CRM Channels

TODO

1.2.4 Webhooks

TODO

1.2.5 Commands

TODO

1.2.6 Preliminaries

TODO

1.3 Pipeline

TODO

1.4 Bring your own Integration (BYOI)

TODO

1.5 UX Multi-rendering/Response Framework

CHAPTER 2

Terminology

2.1 Source

$\mathsf{CHAPTER}\,3$

Integrations

CHAPTER 4

Support

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CHAPTER 5

Webchat Component

This section will describe how to embed and configure the Hubster Webchat component onto your website. Different configuration examples will be provided and a detail explanation describing each configuration property available.

5.1 Adding to Website

When working with Hubster's Webchat component, you must first embed the component onto every webpage where web-chatting is desired on your website.

Below is a snippet of the default configuration to enable web-chatting on your webpage. It should be noted that it's best to add the webchat component at the very tail end of the HTML webpage.

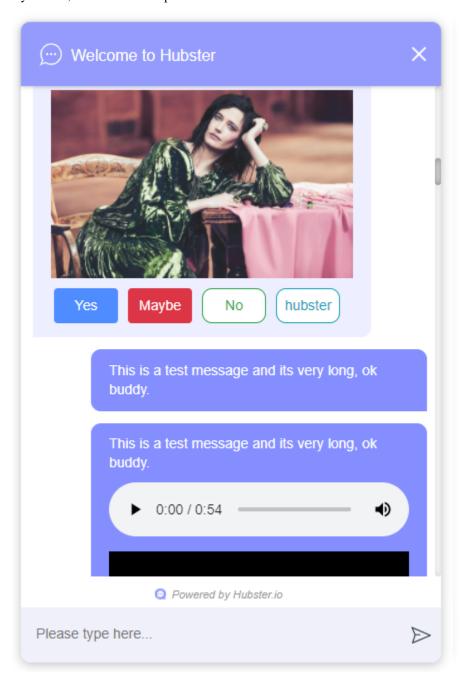
```
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>
    <!-- Webchat script -->
    <hubster-webchat></hubster-webchat>
    <script>
    window.HUBSTER_CONFIG = {
        // remove these lines when deploying to production
        engineEndpoint: 'https://demo-engine.hubster.io',
        eventsEndpoint: 'https://demo-events.hubster.io',
        integrationId: 'B205B3EC-A9D7-4243-B88C-017533957DBE',
        sessionTTL: 43200
    </script>
    <script src="https://hubsterdevcdn.azureedge.net/pub/scripts/webchat/hubster-</pre>
⇔webchat-1.0.min.js"></script>
```

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</body>

By default, the webchat component will look like this:



Configuring the look-and-feel

Although, Hubster loves the default look, we realize our customers need the ability to change how the webchat component looks-and-feels on their website. A lot of consideration and flexible has been provided, giving customers a wide range of style settings to configure their webchat component.

Below is an example configuration on how one would style the component using a blue theme.

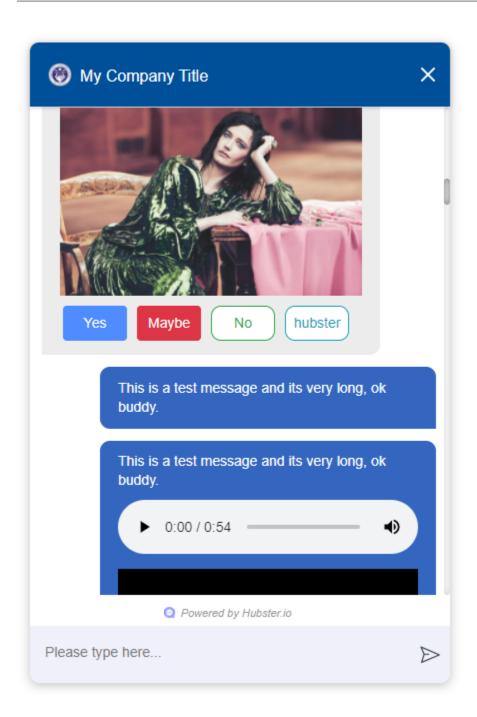
```
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>
   <!-- Webchat script -->
   <hubster-webchat></hubster-webchat>
   <script>
   window.HUBSTER_CONFIG = {
       // remove these lines when deploying to production
       engineEndpoint: 'https://demo-engine.hubster.io',
       eventsEndpoint: 'https://demo-events.hubster.io',
       integrationId: 'B205B3EC-A9D7-4243-B88C-017533957DBE',
       sessionTTL: 43200,
       styling: false,
       styles: {
               title: 'My Company Title',
               iconUrl: 'https://hubsterdevcdn.azureedge.net/pub/demo/webchat/rcm/
style: {
                   'backgroundColor': '#004F99'
            },
           mount: {
               style: {
                    'backgroundColor': '#004F99',
                    'bottom': '5rem',
                    'right': '.9rem',
                    'z-index': '100'
               },
            },
            userTextMessage: {
               'backgroundColor': '#3566BF'
            },
            agentTextMessage: {
               'color': '#22186e',
                'backgroundColor': '#ECECEC'
            },
            botTextMessage: {
               'color': '#22186e',
               'backgroundColor': '#ECECEC'
            },
            footer: {
               maxInputHeight: '40px'
       },
       onMount (mounted) {
           console.log('Mounted:' + mounted);
       },
       mountOnLoad() {
           return -1;
       onReceivedActivity(activity) {
```

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```
console.log(activity);
        },
        onConversation() {
            return {
                "bindingKey": "some_unique_userId",
                "properties": {
                     "profile": {
                         "full name": "SomeUserName",
                         "gender": "female",
                         "custom1": "value1",
                         "custom2": "value2",
                     },
                    "additional": {
                         "custom1": "value1",
                         "custom2": "value2",
                }
            };
   } ;
    </script>
    <script src="https://hubsterdevcdn.azureedge.net/pub/scripts/webchat/hubster-</pre>
→webchat-1.0.min.js"></script>
</body>
</html>
```

The above configuration yields the following theme.



Note: Before going live, it's best to **style** the webchat component first to suite your site's look-and-feel. This however, can be a time consuming task, but luckily Hubster makes this easy.

Hubster provides configuration property called **styling** (see the example above). By default, this property is set to **false**. However, by setting this property to **true**, Hubster will provide a list of all the available webchat widgets for you to style. Most widgets share the same styling property, meaning that, if you change one style, it may affect one or more other widgets.

Hubster provides a wide range of styles that can be change, however, try to avoid changing styles that may affect sizes and position as we may not guarantee the visual behavior.

Furthermore, when styling is set to true, the webchat component disables all backend communications with Hubster

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services.				

5.2 Configuration

PropertyMandatory	Comments
engineEn Mp oint	
	When developing in demo mode, set this value to
	https://demo-engine.hubster.io
	https://demo-engine.htd/ster.io
	The default is: https://engine.hubster.io (production)
eventsEn N point	
eventsiningomi	
	When developing in demo mode, set this value to:
	https://demo-events.hubster.io
	The default is: https://events.hubster.io (production)
session T N o	How long the user's conversation should last in mins. The user's conversion is maintain
	even after they close their browser. If the user does not visit the site after the sessionTLL
	has expired, a new conversation will be established. Sessions are based on a rolling
	window, meaning that the session's start time will reset if the user revisits the site prior to the session expiring. The default is 1440 (1 day).
integratio Y/Ed	The integration id for this Webchat integration.
openOnNewMessage	This tells the webchat component when closed, to open the chat window if a new mes-
openoin ide iviessage	sage immediately arrives. The default is false.
hideClos No on	Don't show the header's close Icon. The default is false. Note : If the hideCloseIcon
	property is set to true, then there is no way to close the webchat window.
fullWind ð vo	If set to to true, the webchat window will open in full window mode.
styling No	Set this value to true when styling the webchat component. The webchat will provide a
	list of all the available webchat widgets for you to style. The default is false.
styles No	A collection of styles. See the <i>Styles Configuration</i> section.
mountOn Xo ad	A JavaScript method that will be invoked when the webchat component is first loaded
on the host webpage. This method when provided, allows the developer to mine how long of a delay (in milliseconds) the webchat component should wai	
mine now long of a delay (in milliseconds) the webchat component should wa mounting (open).	
mounting (open).	
On page reload	
	- a return value < 0 indicates no mounting should occur
	- a return value >= 0 indicates mount after number of milliseconds
	a return value > 0 moreages mount after number of minisceolus
	mountOnLoad(): number;
onMountNo	A JavaScript method that will be invoked when the webchat component has been
	mounted (open) or docked (closed).
	onMount(mounted: boolean): void;
D 12714	
onReceiv ModActivity	A JavaScript method that will be invoked when the webchat component receives an
	activity from the Hubster Engine service before it's displayed on the webchat list.
	an Received Activity (activity) Activity) void
	onReceivedActivity(activity: Activity): void;
onBefore Motivity Send	A JavaScript method that will be invoked when the webchat component is about to send
2.1.2 01.01 Ca about 11ty Dollar	a user <i>activity</i> to Hubster's Engine service. The programer has the option to inspect the
	activity and perform any action as deemed necessary.

Styles Configuration

Hubster wanted to provide an easy, consistent and standard way styling your webchat component. Hubster decided to adhered to the **HTML** *style* property format as shown below.

```
<div styles='color: red; background-color: yellow'>...</div>
```

The only stipulation is that any style property that is normally **hyphenated**, will be replace with its **camelCase** equivalent:

- text-decoration will be represented as 'textDecoration'
- z-index will be represented as 'zIndex'
- background-color will be represented as 'backgroundColor'
- color will be represented as 'color' (in this example, the property name remains the same)
- · and so on...

See a more formal example below.

```
window.HUBSTER_CONFIG = {
    styles: {
        mount: {
            iconUrl: 'https://cdn.com/logo.png',
            style: {
                 'backgroundColor': '#004F99',
                 'bottom': '5rem',
                 'right': '.9rem',
                 'zIndex': '100'
            },
        },
        userTextMessage: {
            'backgroundColor': '#3566BF'
        },
    },
};
```

Note: Values for each style property must be incased in single 'quotes'. This is true even for properties that accept numeric values. If values are not provided, the webchat component will assume its defaults.

5.2. Configuration 21

Style	Comments	
chatBackgroundColbins style controls the background color for the webchat list view. Examples: '#ABDCEI		
	'red'	
userTextMessage		
user realiviessage		
	This style controls the user text message bubble. See example below:	
	, ,	
	<pre>window.HUBSTER_CONFIG = {</pre>	
	styles: {	
	userTextMessage: {	
	'color': 'green'	
	'backgroundColor': '#CFCFCF'	
	} ,	
	} ,	
	•••	
	} ;	
agentTextMessage		
	This style controls the agent toyt massage hubble. See exemple below:	
	This style controls the agent text message bubble. See example below:	
	window.HUBSTER_CONFIG = {	
	styles: {	
	agentTextMessage: {	
	'color': 'blue'	
	'backgroundColor': 'white'	
	},	
	},	
	•••	
	};	
	1,	
botTextMessage		
S		
	This style controls the bot text message bubble. See example below:	
	' HUDGEED CONDIC (
	window.HUBSTER_CONFIG = {	
	styles: {	
	botTextMessage: {	
	'color': 'yellow'	
	'backgroundColor': '#00FF00'	
	} <i>,</i>	
	},	
	•••	
	} ;	
header		
neader		
	This style controls the header of the webchat component. See example below:	
	,	
	<pre>window.HUBSTER_CONFIG = {</pre>	
	styles: {	
	header: {	
	title: 'My Company Title',	
	iconUrl: 'https://cdn.com/logo.png',	
	style: {	
	'color': 'white'	
	'backgroundColor': 'blue'	
	}	
	}	
22	Chapter 5. Webchat Compone	
· -	Onapter 3. Webchat Compone	
	};	
footer		

5.3 Webchat Script Versions

Version	Reference
1.0	https://hubsterdevcdn.azureedge.net/pub/scripts/webchat/hubster-webchat-1.0.min.js

Webhooks

This section describes the necessary steps and considerations when developing a webhook integration. An example is provided, detailing how to implement your webhook endpoint to trust incoming payloads sent by Hubster.

Webhooks are only supported by the following integration types:

- System
- Direct
- BYOI (Bring your own Integration)

Warning: For **Direct** and **BYOI** integration types, they have the option to either receive activities via **webhooks** or **websockets**. If an integration has been configured using websockets and its endpoint is unreachable, Hubster will not enforce it's *retry policy* as websockets adhere to **fire-and-forget** paradigm.

Furthermore, if an integration is configured for **websockets**, then this section is **not applicable**. Websockets are secured through an authenticated connection thus HMAC verification is redundant and unnecessary.

6.1 HMAC Signature Validation

If your custom integration was configured to receive activities via webhooks, it's important to ensure that the request your integration receives comes from a trusted source, in this case Hubster.

Hubster uses the HMAC when signing and verify signatures. When you *create* and configured your custom integration for a given hub, the results of the request will yield two properties - **publicSigningKey** and **privateSigningKey** respectively.

To obtain your customer integration's public/private key pair, just call the following API:

GET /api/v1/integrations/{integrationId}

The **publicSigningKey** is not used by Hubster when signing the request. However, the business can use the **public-SigningKey** as a reference key to obtain their **privateSigningKey** from where they manage their secrets.

Warning: Please make sure all **private keys** are stored securely. If you suspect your private key was compromised, you can regenerate new **public/private key pair** by updating your custom integration. Click *here* for more info.

6.2 C# Sample

Below is an example code snippet using **C# ASP.NET Core**. This sample validates that the request is trusted using HMAC, and once trusted, consumes the activities. The code is fairly straight forward and should be easily transferable to other programing languages.

The main steps are as follows:

- 1. Extract the **Signature** from the request header
- 2. Extract the **Public Key** from the request header
- 3. Obtain the **Private Key** from your secure keystore and convert it to a **UTF8** byte array
- 4. Obtain the raw request body in byte array form
- 5. Produce the a **HMAC** hash (signature) by using the raw request body and applying the **Private Key**
- 6. Take the signature array produced from the step above and convert to 64 base encoding
- 7. Compare if signatures match
- 8. If signatures match then consume the activities as needed
- 9. If signatures don't match then return Forbidden (403)

This sample is based off APS.NET Core, using C#. To see the full example, head over to Hubster's public sample repo.

```
[ApiController]
[Route("[controller]")]
public class WebhooksController : ControllerBase
{
    [HttpPost("activities")]
    public async Task<IActionResult> ReceiveActivities()
    {
```

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```
var publicKey = Request.Headers["x-hubster-public-key"].ToString();
       var headerSignature = Request.Headers["x-hubster-signature"].ToString();
       if (string.IsNullOrWhiteSpace(publicKey)
       || string.IsNullOrWhiteSpace(headerSignature))
           return StatusCode((int)HttpStatusCode.Forbidden, "Forbidden");
       var privateKey = await GetPrivateKeyAsync(publicKey);
       var rawBody = new byte[(int)Request.ContentLength];
       await Request.BodyReader.AsStream().ReadAsync(rawBody);
       // now preform HMAC signature check
       using (var hasher = new HMACSHA256(privateKey))
           var byteSignature = hasher.ComputeHash(rawBody);
           var signature = Convert.ToBase64String(byteSignature);
           if (signature != headerSignature)
               _logger.LogWarning("Invalid signature");
               return StatusCode((int)HttpStatusCode.Forbidden, "Forbidden");
       }
       // at this point the request is now trusted
       // and it came from Hubster
       var json = Encoding.UTF8.GetString(rawBody);
       var activityConverter = new DirectMessageJsonConverter();
       var activities = JsonConvert.DeserializeObject<SystemOutboundDataModel>(json,...)
→activityConverter);
       // you now have a list of activities you can process, etc.
       return Ok();
   private Task<byte[]> GetPrivateKeyAsync(string publicKey)
       // NOTE: for sake of sample, we are hard-coding the private key
       // however, you should use the public key as an indexer to get
       // the private key in some secure store like KeyVault, etc.
       var privateKey = "FA96D15568654A4482772E00BA941BCB";
       var bPrivateKey = Encoding.UTF8.GetBytes(privateKey);
       return Task.FromResult(bPrivateKey);
   }
```

Note:

If you're using .NET Core, the following nuget package contains all the activity model definitions.

6.2. C# Sample 27

Hubster. Abstractions

```
Install-Package Hubster.Abstractions -Version 1.0.2
```

To see a list of activity models, see our public github for direct reference.

6.3 Webhook - Header

Key	Value
x-source-system	The sending system source. This value will always be engine.hubster.io
x-hub-id	The hub that triggered integration belongs too.
x-integration-id	The integration that was triggered.
x-conversation-id	The conversation that this activity was enacted on.
x-hubster-public-key	The public key for this integration. The endpoint can use this value to determine the
	private key used to sign the payload.
x-hubster-signature	The HMAC signature of the payload.

6.4 System - Payload

Webhook endpoints will receive a payload that looks similar to the JSON snippet shown below. The root node contains the **conversation** details and the **activities** node contains one or more *activities*.

```
"hubId": "00000000-0000-0000-0000-000000000001",
"conversationProperties": {
 "profile": {
   "device": "Direct",
   "full name": "Some customer name",
   "prop1": "value1",
   "prop2": "value2"
 },
 "additional": {
  "prop1": "value1",
   "prop2": "value2"
 }
},
"activities": [
   "type": "message",
   "eventTrigger": "message:customer",
   "eventId": 1603933721542,
   "externalId": "my-external-id",
   "isEcho": false,
   "flowProcess": "Default",
  "sender": {
    "integrationId": "00000000-0000-0000-0000-000000000001",
    "integrationType": "Customer",
```

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6.5 Direct - Payload

The Direct outbound payload is similar to the Webhook outbound payload accept that, rather than having a collection of activities, the activities will be replaced with an *activity* node.

```
"conversationProperties": {
 "profile": {
  "device": "Direct",
  "full name": "Some customer name",
  "prop1": "value1",
  "prop2": "value2"
 },
 "additional": {
  "prop1": "value1",
  "prop2": "value2"
},
"activity": {
  "type": "message",
  "eventTrigger": "message:customer",
  "eventId": 1603933721542,
  "externalId": "my-external-id",
  "isEcho": false,
  "flowProcess": "Default",
  "sender": {
    "integrationId": "00000000-0000-0000-0000-000000000001",
    "integrationType": "Customer",
    "channelType": "Direct",
    "tokenId": "t+8qymYD1jp7wDSHG+3eUA=="
  },
```

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```
"recipient": {
    "integrationId": "00000000-0000-0000-000000000000",
    "integrationType": "Agent",
    "channelType": "Direct",
    "tokenId": "971480cb-938c-4dfd-be4e-01756c833490.00000000-0000-0000-
    →000000000003"
    },
    "message": {
        "type": "text",
        "text": "Hi there!"
    }
}
```

6.6 Activity Event Filters

Below are list of of activity events that **system** integrations can register too. System integrations must register to at least one event but can register to more as deemed necessary. Hubster will only send events once, to one of the following events if triggered.

Event	Description		
message	Hubster will notify the webhook on all message activities for the given hub.		
message:	message:culturater will only notify the webhook on all customer message activities for the given hub.		
message:	ast to be ster will only notify the webhook on all agent message activities for the given hub.		
message:botubster will only notify the webhook on all bot message activities for the given hub.			

6.7 Webhook Retry Policy

Retry Attempt	Next Retry Period	Timeout Before Retry
0 x 2 minutes	0 minutes (immediate)	10 seconds
1 x 2 minutes	2 minutes	10 seconds
2 x 2 minutes	4 minutes	10 seconds
3 x 2 minutes	6 minutes	10 seconds
4 x 2 minutes	8 minutes	10 seconds
5 x 2 minutes	10 minutes	10 seconds

Warning: Once all retries attempts are exhausted, Hubster will send a **notification** to the tenant account holder with details to as to why the endpoint failed. It is up to the the account holder to rectify their integration issue.

$\mathsf{CHAPTER}\ 7$

Direct Integrations

TODO

CHAPTER 8

Overview

This section will provide guidance and usage on how to interact with Hubster's APIs. The goal of Hubster is to provide a consistent and systematic approach across all our API resources, in terms of style, format and responses.

Hubster's APIs are designed using **REST** principles and most of our payloads are structured using **JSON**. Any exception to this rule will be noted where necessary.

Note: Hubster APIs incorporate cross-origin resource sharing (**CORS**) whereby facilitating web applications to freely use our API in an authenticated and secure manner.

8.1 Environments

Below are the list of Hubster environments:

Identity	API Resource
Demo	https://demo-identity.hubster.io
Productionhttps://identity.hubster.io	

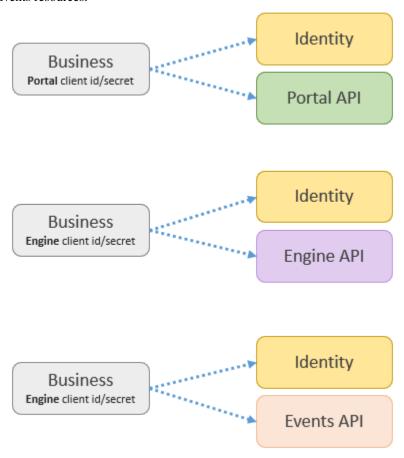
Portal	API Resource
Demo	https://demo-portal-api.hubster.io
Productionhttps://portal-api.hubster.io	

Engine	API Resource
Demo	https://demo-engine.hubster.io
Productionhttps://engine.hubster.io	

Events	API Resource	
Demo	https://demo-events.hubster.io	
Productionhttps://events.hubster.io		

8.2 Identity to API Resource Interaction

Below is a depiction on how a business application first obtains an **access token**, using Hubster's identity service, which can later be used to make authenticated requests against API services, such as Hubster's Portal, Engine and Events resources.



Note: API access tokens use the client_credential grant_type, Description you can only obtain a access tokens using client_ids and client_secrets respectively. These access tokens are longed-lived and last no longer than 30 days. When an access token expires, accessing an API resource yields an HTTP Status **401** - *Unauthorized Access*.

Furthermore, access tokens are only meant for their indented API resource. For example, if a business obtains an access token for the Portal API resource, the access token cannot be used for the to gain access to the Engine API resource, and likewise. These design was intentional as scopes for each API resource are vastly different. There's an exception to this rule. Accessing the Events API requires an Engine access token.

To obtain an **access token**, please refer to the *Authentication API* for more details.

8.3 Standard Error Response

Hubster's standard error response model is consistent across all API resources. The only difference being are the actual *error codes* returned by each API resource.

Below is an example of a **Bad Request** (400) returned by the Portal API.

Response

Property	erty Description	
status	The HTTP Status code. This will value always equals header's HTTP Status code.	
errors	The list of <i>errors</i> .	

8.4 Paginated Results

In some cases, Hubster may return a **paginated** response whereby, the business will need to re-query the next result, based on **page number** and **page size**. This is typically when certain **GET** requests may yield a large number of records

Below is an example from Portal API resource returning Hubs as paginated response.

Response: 200 (OK)

(continues on next page)

```
}
]
}
```

Property	Description	
pageNumbe	pageNumberThe requested page number.	
pageSize	The requested page size.	
total	The total number of results across all pages. Note : the total number of items does not necessary equal	
	the number of result items.	
results	A list of response models returned by the API resource. Note : the result models may differ on per call	
	basis.	

8.5 HTTP Status Codes

Hubster API HTTP Status codes.

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
201	OK response. The response will content no data.
400	Bad request. The body of the response will have more info.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
409	Conflict. The request caused a conflict.
410	Not available. The request is not available.
417	Expectation Failed. The operation was aborted.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
501	Not implemented. The request is not implemented.
503	Service unavailable. The service is unavailable.

CHAPTER 9

Identity

The Identity Service is mainly used for Authenticating client credentials and upon success, returns a **Bearer access token**.

Below is the list of API collections for Hubster's Identity service.

9.1 Authentication

POST /connect/token

Headers

Header	Description
Content-Type	application/x-www-form-urlencoded

Request Properties

Property	Mandatory	Description
grant_type	Yes	Has to be client_credentials.
client_id	Yes	
		The client id of the Hubster service you plan to authenticate against.
		Typical, it will be one of following:
		– hubster.portal.api.000000000
		– hubster.engine.api.000000000
		Please refer to <i>Identity to API Resource Interaction</i> for the resources accessible on a per client_id basis.
client_secret	Yes	The client secret for the client_id used.

Note: The request body is of **grant_type** see the following example format below: grant_type=client_credentials&client_id=hubster.portal.api.0000000...&client_secret=SMWvD7W...

Response: 200 (OK)

```
"access_token": "eyJhbGciOiJSUzI1NiIsImtpZCI...",
"expires_in": 2592000,
"token_type": "Bearer",
"scope": "hubster-portal-api"
}
```

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CHAPTER 10

Portal

The Portal Service is mainly use to manage and configure a tenant's hubs, integrations and access tokens. Below is the list of API collections for Hubster's Portal service.

10.1 Tenants

10.1.1 Get Client

Gets a Client.

GET /api/v1/tenants/clients/{clientId}

Headers

Header Description	
Authorization	Bearer your portal access token
Content-Type application/json	

Url Segments

Segment	Description	
clientId	The client id to get.	

Response: 200 (OK)

```
"tenantId": "B205B3EC-A9D7-4243-B88C-017533957DEB",
   "clientId": "hubster.portal.api.B205B3ECA9D74243B88C017533957DEB",
   "name": "Hubster Portal API Client (Public)",
   "enabled": true,
```

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```
"allowedScopes": [
  "hubster-portal-api"
],
"claims": [
  {
    "type": "role",
"value": "admin"
 },
    "type": "tenant",
    "value": "B205B3EC-A9D7-4243-B88C-017533957DEB"
 }
],
"secrets": [
 {
    "id": 9,
    "name": "my secret 1",
    "token": "SMWvD7WUAn8bkdl..."
  },
    "id": 15,
    "name": "my secret 2",
    "token": "SMWvD7WUAn8bkdl..."
  },
    "id": 16,
    "name": "my secret 3",
    "token": "SMWvD7WUAn8bkdl...",
    "expiration": "2030-01-31T00:00:00"
  }
]
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.1.2 Add Client Token

Adds a new Client Token.

POST /api/v1/tenants/clients/{clientId}/tokens

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description	
clientId	The client id affected.	

Request Properties

Property	Mandatory	Description
name	Yes	Unique tenant name for Hub.
expiration	No	Expiration date when this token will no longer be valid. If no expiration date
		was provide, then this token lives forever.

Example Request Body

```
{
    "name": "my secret 3",
    "expiration": "2030-01-31T00:00:00"
}
```

Response: 200 (OK)

```
{
  "id": 16,
  "name": "my secret 3",
  "token": "7AQNCUKAXdCg1M...",
  "expiration": "2030-01-31T00:00:00"
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.1.3 Delete Client Token

Deletes (revokes) a Client Token.

DELETE /api/v1/tenants/clients/{clientId}/tokens/{tokenId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

10.1. Tenants 41

Segment	Description	
clientId	The client id affected.	
tokenId	The the token id to delete.	

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.2 Hubs

10.2.1 Create

Creates a Hub.

POST /api/v1/hubs

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Request Properties

Property	Mandatory	Description
name	Yes	Unique Hub name for tenant.
description	Yes	Hub description.
closeDormantConv	erNation	
		The number of days to close this conversation if dormant. If no value was supplied or is equal to 0 (zero), the conversation will remain open.
		It should be noted that conversations can be closed by the business at any time.
statusId	No	Hub status.
		Valid options are: - Active = 2000 - Paused = 2002
		Default is $Active = 2000$, if no value supplied.

Example Request Body

```
"name": "Your New Cool Hub Name",
   "description": "This hub is cool",
   "closeDormantConversation": 30,
   "statusId": 2000
}
```

```
"hubId": "3bcle69f-c520-446f-ab2c-01751fd66a31",
    "tenantId": "abcle69f-c888-875f-ee2c-45789fd66a00",
    "name": "Your New Cool Hub Name",
    "description": "This hub is cool",
    "closeDormantConversation": 30,
    "statusId": 2000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.2.2 **Update**

Updates a Hub.

PUT /api/v1/hubs/{hubId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
hubId	The hub id affected.

Request Properties

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Property	Mandatory	Description
name	No	Unique Hub name for tenant.
description	No	Hub description.
closeDormantConv	erNation	
		The number of days to close this conversation if dormant. If no value was supplied or is equal to 0 (zero), the conversation will remain open.
		It should be noted that conversations can be closed by the business at any time.
statusId	No	
		Hub status.
		Valid options are:
		-Active = 2000
		-Paused = 2002
		Default is <i>Active</i> = 2000, if no value supplied.

Example Request Body

```
"name": "Your New Cool Hub Name",
  "description": "This hub is cool",
  "closeDormantConversation": 30,
  "statusId": 2000
}
```

Response: 200 (OK)

```
"hubId": "3bc1e69f-c520-446f-ab2c-01751fd66a31",
    "tenantId": "abc1e69f-c888-875f-ee2c-45789fd66a00",
    "name": "Your New Cool Hub Name",
    "description": "This hub is cool",
    "closeDormantConversation": 30,
    "statusId": 2000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.2.3 **Delete**

Deletes a Hub.

Warning: This will delete all integrations and their registrations to their service provider.

DELETE /api/v1/hubs/{hubId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
hubId	The hub id affected.

Response: 200 (OK)

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.2.4 Get

Gets a Hub.

GET /api/v1/hubs/{hubId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
hubId	The hub id to get.

Response : 200 (OK)

```
{
    "hubId": "3bc1e69f-c520-446f-ab2c-01751fd66a31",
    "tenantId": "abc1e69f-c888-875f-ee2c-45789fd66a00",
    "name": "Your New Cool Hub Name",
```

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```
"description": "This hub is cool",
    "closeDormantConversation": 30,
    "statusId": 2000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.2.5 Get Collection

Gets a list of Hubs.

GET /api/v1/hubs

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Request Arguments

Argument	Mandatory	Description
pageNumber	No	The requested page number. Must be $>= 0$
pageSize	No	The requested page size. Must be $>= 1$ and $<= 100$

Response: 200 (OK)

paginated

(continues on next page)

```
"closeDormantConversation": 30,
    "statusId": 2000
},
{
    "hubId": "3bc1e69f-c520-446f-ab2c-01751fd66a32",
    "tenantId": "abc1e69f-c888-875f-ee2c-45789fd66a01",
    "name": "Your New Cool Hub Name 2",
    "description": "This hub is cool 2",
    "closeDormantConversation": 30,
    "statusId": 2000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.3 Integrations

10.3.1 Create

Creates an Integration.

POST /api/v1/integrations/hubs/{hubId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description	
hubId	The hub id affected.	

Request Properties

Property	Mandatory	Description
channelId	Yes	Has to be one of the following <i>Channel Types</i> .
name	Yes	Unique name for integration per Hub.
statusId	No	
		Integration status.
		Valid options are:
		-Active = 3000
		-Paused = 3002
		Default is $Active = 3000$, if no value supplied.
configuration	Yes	See <i>configuration</i> properties for each individual channelId .

Example Request Body

Note: The request body below uses **TwilioSMS** as an example. It should be noted that *configuration* properties for each channel type differs. Please use the correct configuration specific to the **channelId** value defined.

```
{
  "channelId": "TwilioSMS",
  "name": "My cool integration name.",
  "statusId": 3000,
  "configuration": {
      "authToken": "cb8c5367c3c4586ecb589e25570...",
      "accountSid": "AC1fc1c1722444b0c6313d3ae988b...",
      "numberSid": "PN667435536f4d1cefdf054abf99..."
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

Configurations

TwilioSMS

```
{
  "authToken": "cb8c5367c3c4586ecb589e25570...",
  "accountSid": "AC1fc1c1722444b0c6313d3ae988b...",
  "numberSid": "PN667435536f4d1cefdf054abf99..."
}
```

Property	Mandatory	Description
authToken	Yes	Twilio authorization token.
accountSid	Yes	Twilio account SID.
numberSid	Yes	Twilio phone number SID.

```
"integrationId": "00000000-0000-0000-0000-0000000000",
"hubId": "00000000-0000-0000-0000-00000000000",
"integrationTypeId": "Customer",
"channelId": "TwilioSMS",
"name": "My cool integration name.",
"statusId": 3000,
"configuration": {
  "accountSid": "AC1fc1c1722444b0c6313d3da98...",
  "authToken": "cb8c5367c3c4586ecb589e25570....",
  "numberSid": "PN667435536f4d1cefdf054ecf9....",
  "phoneNumber": "+16476960000",
  "capabilities": {
    "mms": true,
    "sms": true,
    "voice": true
  }
}
```

Messenger

Property	Mandatory	Description
pageAccessToken	Yes	Facebook page access token.

Response 200 (OK)

```
"integrationId": "0000000-0000-0000-000000000000",
"hubId": "00000000-0000-0000-0000000000",
"integrationTypeId": "Customer",
"channelId": "Messenger",
"name": "My cool integration name.",
"statusId": 3000,
"configuration": {
    "appId": "35360465938...",
    "pageId": "1013889883...",
    "pageAccessToken": "EAAFBm..."
}
```

WebChat

```
"allowedOrigins": [
    "localhost",
    "hubster.io"
],
    "start": [
    {
        "type": "text",
        "text": "Welcome to Hubster! How can we help you?"
    }
]
```

Property	Mandatory	Description
allowedOrigins	Yes	One or more domains hosting the WebChat component.
start	No	An array of Hubster messages types.

```
"integrationId": "00000000-0000-0000-0000-00000000000",
"hubId": "00000000-0000-0000-0000-00000000000",
"integrationTypeId": "Customer",
"channelId": "WebChat",
"name": "Webchat",
"statusId": 3000,
"configuration": {
    "AllowedOrigins": [
        "localhost",
        "hubster.io"
    ],
    "Echo": true,
    "Start": [
            "type": "text",
            "text": "Welcome to Hubster! How can we help you?"
    ]
}
```

Direct

```
"integrationType": "Agent",
"echo": true,
"webhookUrl": "https://url_end_point.com"
}
```

Property	Mandatory	Description
integrationType	Yes	Must be a supported <i>integration</i> type.
echo	No	If yes, when an activity is received from this integration, it will echo it back.
webhookUrl	No	The endpoint to receive Hubster <i>Activities</i> . If not supplied, activities will be
		delivered via websockets.
start	No	An array of Hubster messages types.

```
"integrationId": "00000000-0000-0000-0000-00000000000",
"hubId": "00000000-0000-0000-0000-00000000000",
"integrationTypeId": "Agent",
"channelId": "Direct",
"name": "My cool integration name.",
"statusId": 3000,
"configuration": {
"integrationType": "Agent",
"echo": true,
"webhookUrl": "https://url_end_point.com",
"publicSigningKey": "6DF60E ...",
"privateSigningKey": "E0A42 ...",
"start": [
    "type": "text",
    "text": "Welcome to Hubster! How can we help you?"
  }
]
```

System

```
"webhookUrl": "https://url_end_point.com",
"events": [
   "message:customer",
   "message:agent",
   "message:bot"
]
```

Property	Mandatory	Description
webhookUrl	Yes	The endpoint to receive Hubster Activities
events	Yes	The <i>activity event filter</i> (<i>s</i>) to be event on.

Response 200 (OK)

(continues on next page)

```
}
```

Slack

```
{
    "code": "EAAFBmgAdBToBADCvmo5w10tmlh97uxhtorpi5Adrdo0wtwFfXfkNxxLAY29AxwBHJNfXH5rR..

    ∴",
    "nonce": "mo5w10t.mlh97uxh"
}
```

Property	Mandatory	Description
code	Yes	Slack oauth2 code.
nonce	Yes	Verification signature.

Response 200 (OK)

```
{
    "integrationId": "00000000-0000-0000-00000000000",
    "hubId": "00000000-0000-0000-00000000000",
    "integrationTypeId": "Agent",
    "channelId": "Slack",
    "name": "My cool integration name.",
    "statusId": 3000,
    "configuration": {
        "botAccessToken": "xoxb-193043142226-...",
        "appAccessToken": "xoxp-193043142226-...",
        "defaultPublicChannel": "general",
        "teamId": "T5P19488N",
        "botName": "Hubster.io"
    }
}
```

10.3.2 **Update**

Updates an Integration.

POST /api/v1/integrations/hubs/{integrationId}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description	
integrationId	The integration id affected.	

Request Properties

Property	Mandatory	Description
name	No	Unique name for integration per Hub.
statusId	No	Integration status.
		Valid options are: - Active = 3000 - Paused = 3002
configuration	No	See <i>configuration</i> properties for each individual channelId .

Example Request Body

```
"name": "Direct",
"statusId": 3002,
"configuration": {
    "Echo": true,
    "webhookUrl": "http://hubster.io/v1/api/integration?customer=1"
}
}
```

Configurations

Note: If you need to update any configuration value, you need to provide **all required** values specific to that channel type. In other words, the complete **configuration** object will replace the old one.

Warning: The following integration types cannot have their **configuration** values updated due to reauthenticating with their respective service providers. Any attempt will be ignored.

- TwilioSMS
- Messenger
- Slack

If you need to update their configuration, you must first **delete** the original integration and **recreate** a new one.

WebChat

Property	Mandatory	Description
allowedOrigins	Yes	One or more domains hosting the WebChat component.
start	No	An array of Hubster messages types.

```
"integrationId": "00000000-0000-0000-0000-00000000000",
"hubId": "00000000-0000-0000-0000-00000000000",
"integrationTypeId": "Customer",
"channelId": "WebChat",
"name": "Webchat",
"statusId": 3000,
"configuration": {
    "AllowedOrigins": [
        "localhost",
        "hubster.io"
    "Echo": true,
    "Start": [
            "type": "text",
            "text": "Welcome to Hubster! How can we help you?"
   ]
}
```

Direct

Property	Mandatory	Description
integrationType	Yes	Must be a supported <i>integration</i> type.
echo	No	If yes, when an activity is received from this integration, it will echo it back.
webhookUrl	No	The endpoint to receive Hubster Activities. If not supplied, activities will be
		delivered via websockets.
regenerateKeys	No	This forces a new set of public/private keys to be generated.
start	No	An array of Hubster messages types.

Response 200 (OK)

System

```
"webhookUrl": "https://url_end_point.com",
    "regenerateKeys": true,
    "events": [
        "message:customer",
        "message:agent",
        "message:bot"
]
```

Property	Mandatory	Description
webhookUrl	Yes	The endpoint to receive Hubster <i>Activities</i>
regenerateKeys	No	This forces a new set of public/private keys to be generated.
events	Yes	The <i>activity event filter</i> (<i>s</i>) to be event on.

Response 200 (OK)

```
"integrationId": "00000000-0000-0000-0000-00000000000",
"hubId": "00000000-0000-0000-0000-00000000000",
"integrationTypeId": "System",
"channelId": "System",
"name": "My cool integration name.",
"statusId": 3000,
"configuration": {
    "events": [
        "message:customer",
        "message:agent",
        "message:bot"
    ],
    "webhookUrl": "https://url_end_point.com",
    "publicSigningKey": "6DF60E ...",
    "privateSigningKey": "E0A42 ...",
}
```

(continues on next page)

}

10.3.3 Get

Gets an Integration.

GET /api/v1/integrations/{integrationId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description	
integrationId	The integration to get.	

Response 200 (OK)

Note: The request body below uses **TwilioSMS** as an example. It should be noted that *configuration* properties for each channel type differs.

```
"integrationId": "00000000 ...",
"hubId": "00000000 ...",
"inboundId": "AC1fc1c1722444b0...",
"integrationTypeId": 2,
"channelId": 102,
"name": "Twilio Test Number: 1647...",
"statusId": 3000,
"configuration": {
  "AccountSid": "AC1fc1c172244...",
  "AuthToken": "cb8c5367c3c458...",
  "NumberSid": "PN667435536f4d...",
  "PhoneNumber": "+1647...",
    "Capabilities": {
    "Mms": true,
    "Sms": true,
    "Voice": true
  }
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

Response Body Examples

TwilioSMS

```
"integrationId": "00000000-0000-0000-0000-00000000000",
"inboundId": "AC1fc1c1722444b0c6313d3....",
"integrationTypeId": "Customer",
"channelId": "TwilioSMS",
"name": "Twilio Test Number: 16476960489",
"statusId": 3000,
"configuration": {
   "AccountSid": "AC1fc1c1722444b0c6313d...",
   "AuthToken": "cb8c5367c3c4586ecb589e2...",
   "NumberSid": "PN667435536f4d1cefdf054...",
   "PhoneNumber": "+16476960489",
   "Capabilities": {
       "Mms": true,
       "Sms": true,
       "Voice": true
}
```

Messenger

```
{
    "integrationId": "00000000-0000-0000-00000000000",
    "hubId": "00000000-0000-0000-0000000000",
    "inboundId": "27623838....",
    "integrationTypeId": "Customer",
    "channelId": "Messenger",
    "name": "Messenger: Hubster Biz",
    "statusId": 3000,
    "configuration": {
        "AppId": "218851140...",
        "PageId": "27623838...",
        "PageAccessToken": "EAAfGcISnoh0BAEZBihIAC..."
}
```

Web Chat

```
"hubId": "00000000-0000-0000-0000-00000000000",
"integrationTypeId": "Customer",
"channelId": "WebChat",
"name": "Webchat for Hubster Demo (Blank) ",
"statusId": 3000,
"configuration": {
    "allowedOrigins": [
        "localhost",
        "hubster.io"
    ],
    "echo": true,
    "start": [
            "type": "text",
            "text": "Welcome to Hubster! How can we help you?"
   ]
}
```

Direct

```
"integrationId": "00000000-0000-0000-000000000000",
   "hubId": "00000000-0000-0000-00000000000",
   "integrationTypeId": "Customer",
   "channelId": "Direct",
   "name": "Direct Customer (Webhook)",
   "statusId": 3000,
   "configuration": {
        "WebhookUrl": "http://localhost:5100/v1/api/integration?customer=1",
        "publicSigningKey": "6DF60E ...",
        "privateSigningKey": "E0A42 ...",
        "Echo": false,
        "WelcomeMessage": "Welcome to Hubster! How can we help you?"
}
```

System

(continues on next page)

```
}
```

Slack

```
"integrationId": "00000000-0000-0000-00000000000",
    "hubId": "00000000-0000-0000-00000000000",
    "integrationTypeId": "Agent",
    "channelId": "Slack",
    "name": "Slack for Hubster Demo",
    "statusId": 3000,
    "configuration": {
        "BotAccessToken": "xoxb-...",
        "AppAccessToken": "xoxp-...",
        "DefaultPublicChannel": "general",
        "TeamId": "T017QM...",
        "BotName": "Hubster.io"
}
```

10.3.4 Get by Channel Type

Gets a list of integrations for a given Channel Type.

GET /api/v1/integrations/hubs/{hubId}/{channelType}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description	
hubId	The hub id to obtain all integrations.	
channelType	The <i>Channel Type</i> to filter by.	

Response: 200 (OK)

(continues on next page)

```
"WelcomeMessage": "Welcome to Hubster! How can we help you?"
}
},
{
    "integrationId": "00000000-0000-0000-0000000000002",
    "hubId": "00000000-0000-0000-00000000000",
    "integrationTypeId": "Agent",
    "channelId": "Direct",
    "name": "Direct Agent (Websocket)",
    "statusId": 3000,
    "configuration": {
        "Echo": true
    }
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.3.5 Get Collection

Gets a list of integrations.

GET /api/v1/integrations

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Arguments

Argument	Mandatory	Description
hubId	No	Filter by hub id.
pageNumber	No	The requested page number. Must $be >= 0$.
pageSize	No	The requested page size. Must be $>= 1$ and $<= 100$.

Response: 200 (OK)

paginated

```
"pageNumber": 0,
    "pageSize": 50,
    "total": 2,
    "results": [
        "hubId": "3bc1e69f-c520-446f-ab2c-01751fd66a31",
        "tenantId": "abc1e69f-c888-875f-ee2c-45789fd66a00",
        "name": "Your New Cool Hub Name",
        "description": "This hub is cool",
        "closeDormantConversation": 30,
        "statusId": 2000
        "hubId": "3bc1e69f-c520-446f-ab2c-01751fd66a32",
        "tenantId": "abc1e69f-c888-875f-ee2c-45789fd66a01",
        "name": "Your New Cool Hub Name 2",
        "description": "This hub is cool 2",
        "closeDormantConversation": 30,
        "statusId": 2000
    ]
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.4 Transfer Commands

Note: Transfer Commands are only respected by the **WebChat** device at this time. Sending transfers to other devices will be ignored.

10.4.1 Create

Creates a Transfer Command.

POST /api/v1/commands/transfers/{hubId}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description
hubId	The Hub id to create commands for.

Request Properties

Property	Mandatory	Description
name	Yes	Unique command name per Hub.
description	No	Command description.
url	Yes	Command url.
linkDescription	Yes	The description used for the link anchor on the WebChat device.
mountDelay	No	
		Amount of in milliseconds before mounting occurs.
		Default is 0, if no value supplied.
		mountDelay < 0, will not mount the WebChat
		mountDelay = 0, will immediately mount the WebChat

Example Request Body

```
"name": "new cool command",
   "description": "Description for command",
   "url": "https://mysite.io",
   "linkDescription": "Click here to be transferred",
   "mountDelay": 1000
}
```

Response: 200 (OK)

```
"commandId": "5a0623b0-d51a-4b3c-ace1-0175e34fae2f",
   "hubId": "00000000-0000-0000-00000000001",
   "name": "new cool command",
   "description": "Description for command",
   "url": "https://mysite.io",
   "linkDescription": "Click here to be transferred",
   "mountDelay": 1000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.4.2 Update

Updates a Transfer Command.

PUT /api/v1/commands/transfers/{commandId}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description
commandId	The command id affected.

Request Properties

Property	Mandatory	Description
name	No	Unique command name per Hub.
description	No	Command description.
url	No	Command url.
linkDescription	Yes	The description used for the link anchor on the WebChat device.
mountDelay	No	
		Amount of in milliseconds before mounting occurs.
		Default is 0, if no value supplied.
		mountDelay < 0, will not mount the WebChat
		mountDelay = 0, will immediately mount the WebChat

Example Request Body

```
"name": "new cool command",
   "description": "Description for command",
   "url": "https://mysite.io",
   "linkDescription": "Click here to be transferred",
   "mountDelay": 1000
}
```

Response: 200 (OK)

```
"commandId": "5a0623b0-d51a-4b3c-ace1-0175e34fae2f",
"hubId": "00000000-0000-0000-00000000001",
"name": "new cool command",
"description": "Description for command",
"url": "https://mysite.io",
"linkDescription": "Click here to be transferred",
"mountDelay": 1000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.4.3 Delete

Deletes a Transfer Command.

DELETE /api/v1/commands/transfers/{commandId}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description
commandId	The transfer command id.

Response: 200 (OK)

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.4.4 Get

Gets a Transfer Command.

GET /api/v1/commands/transfers/{commandId}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description
commandId	The transfer command id to get.

Response: 200 (OK)

```
"commandId": "5a0623b0-d51a-4b3c-ace1-0175e34fae2f",
   "hubId": "00000000-0000-0000-00000000001",
   "name": "new cool command",
   "description": "Description for command",
   "url": "https://mysite.io",
   "linkDescription": "Click here to be transferred",
   "mountDelay": 1000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.4.5 Get Collection

Gets a list of Transfer Commands.

GET /api/v1/commands/transfers/hub/{hubId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
hubId	The Hub id to get transfer commands for.

Response: 200 (OK)

```
[
    "commandId": "5a0623b0-d51a-4b3c-ace1-0175e34fae2f",
    "hubId": "00000000-0000-0000-0000000001",
    "name": "new command 2",
    "description": "Description for command",
```

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```
"url": "https://mysite.io",
    "linkDescription": "Click here to be transferred",
    "mountDelay": 1000
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.5 Response Commands

10.5.1 Create

Creates a Response Command.

POST /api/v1/commands/responses/{hubId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
hubId	The Hub id to create commands for.

Request Properties

Property	Mandatory	Description
name	Yes	Unique command name per Hub.
category	No	Command category.
description	No	Command description.
integrationTypeId	Yes	
		Type of integration command is used for. Valid options are: - agent - customer
type	Yes	Response command type. Valid options are: - message - event
responses	Yes	A list of <i>Message</i> or <i>Event</i> types.

Example Request Body

```
"name": "contact-eva.green",
"category": "contacts",
"description": "Eva's Contact",
"integrationTypeId": "customer",
"type": "message",
"responses": [
    {
        "type": "text",
        "text": "Below is my contact info"
    },
        "type": "contact",
        "imageUrl": "https://image.png",
        "title": "Eva Green",
        "properties": [
            {
                "key": "Title",
                "value": "Mighty Health"
            },
            {
                "key": "Address",
                "value": "108 Kirkbride Crescent, Maple, ON",
                "type": "address; work"
            },
                "key": "Cell",
                "value": "+1 (714) 873-6202",
                "type": "phone; cell"
            },
                "key": "Email",
                "value": "eva@mightyhealth.com",
```

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Response: 200 (OK)

```
"hubId": "00000000-0000-0000-0000-00000000001",
"name": "contact-eva.green",
"category": "contacts",
"description": "Eva's Contact",
"integrationTypeId": "customer",
"type": "message",
"responses": [
       "type": "text",
       "text": "Below is my contact info"
   },
       "type": "contact",
       "imageUrl": "https://image.png",
       "title": "Eva Green",
       "properties": [
           {
               "key": "Title",
               "value": "Mighty Health"
           },
               "key": "Address",
               "value": "108 Kirkbride Crescent, Maple, ON",
               "type": "address; work"
           },
               "key": "Cell",
               "value": "+1 (714) 873-6202",
               "type": "phone; cell"
           },
```

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```
"key": "Email",
                 "value": "eva@mightyhealth.com",
                 "type": "email"
        ],
        "channels": [
            {
                 "type": "Webchat",
                 "metadata": [
                     {
                         "key": "caption-show",
                         "value": "true"
                     },
                         "key": "caption-color",
                         "value": "white"
                ]
        ]
]
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.5.2 Update

Updates a Response Command.

PUT /api/v1/commands/responses/{commandId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
commandId	The command id affected.

Request Properties

Property	Mandatory	Description
name	Yes	Unique command name per Hub.
category	No	Command category.
description	No	Command description.
integrationTypeId	Yes	
		Type of integration command is used for. Valid options are: - agent - customer
type	Yes	
		Response command type. Valid options are: - message - event
responses	Yes	A list of Message or Event types.

Example Request Body

```
{
  "category": "Office contacts",
  "description": "Eva's Office Contact",
}
```

Response: 200 (OK)

```
"name": "contact-eva.green",
"category": "Office contacts",
"description": "Eva's Office Contact",
"integrationTypeId": "customer",
"type": "message",
"responses": [
      "type": "text",
      "text": "Below is my contact info"
      "type": "contact",
      "imageUrl": "https://image.png",
      "title": "Eva Green",
      "properties": [
             "key": "Title",
             "value": "Mighty Health"
          },
             "key": "Address",
             "value": "108 Kirkbride Crescent, Maple, ON",
             "type": "address; work"
```

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```
},
                 "key": "Cell",
                 "value": "+1 (714) 873-6202",
                 "type": "phone; cell"
                 "key": "Email",
                 "value": "eva@mightyhealth.com",
                 "type": "email"
        ],
        "channels": [
            {
                 "type": "Webchat",
                 "metadata": [
                         "key": "caption-show",
                         "value": "true"
                     },
                         "key": "caption-color",
                         "value": "white"
                ]
            }
       ]
]
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.5.3 Delete

Deletes a Response Command.

DELETE /api/v1/commands/responses/{commandId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
commandId	The response command id.

Response: 200 (OK)

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.5.4 Get

Gets a Response Command.

GET /api/v1/commands/responses/{commandId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type	application/json

Url Segments

Segment	Description
commandId	The response command id to get.

Response: 200 (OK)

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```
"title": "Eva Green",
        "properties": [
                "key": "Title",
                "value": "Mighty Health"
            },
                "key": "Address",
                "value": "108 Kirkbride Crescent, Maple, ON",
                "type": "address; work"
                "key": "Cell",
                "value": "+1 (714) 873-6202",
                "type": "phone; cell"
            },
                "key": "Email",
                "value": "eva@mightyhealth.com",
                "type": "email"
        ],
        "channels": [
            {
                 "type": "Webchat",
                 "metadata": [
                     {
                         "key": "caption-show",
                         "value": "true"
                    },
                         "key": "caption-color",
                         "value": "white"
                ]
           }
       ]
   }
]
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

10.5.5 Get Collection

Gets a list of Response Commands.

GET /api/v1/commands/responses/hub/{hubId}

Headers

Header	Description	
Authorization	Bearer your portal access token	
Content-Type	application/json	

Url Segments

Segment	Description
hubId	The Hub id to get response commands for.

Response: 200 (OK)

```
"name": "contact-eva.green",
"category": "Office contacts",
"description": "Eva's Office Contact",
"integrationTypeId": "customer",
"type": "message",
"responses": [
       "type": "text",
       "text": "Below is my contact info"
   },
       "type": "contact",
       "imageUrl": "https://image.png",
       "title": "Eva Green",
       "properties": [
          {
              "key": "Title",
              "value": "Mighty Health"
          },
              "key": "Address",
              "value": "108 Kirkbride Crescent, Maple, ON",
              "type": "address; work"
          },
              "key": "Cell",
              "value": "+1 (714) 873-6202",
              "type": "phone; cell"
          },
              "key": "Email",
              "value": "eva@mightyhealth.com",
              "type": "email"
       ],
       "channels": [
```

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```
"type": "Webchat",
              "metadata": [
                    "key": "caption-show",
                    "value": "true"
                 },
                    "key": "caption-color",
                    "value": "white"
              ]
          }
       ]
    }
 ]
},
   "name": "Command-5",
   "category": "Command-5",
   "description": "Command-5",
   "integrationTypeId": "agent",
   "type": "event",
   "responses": [
      {
         "type": "payload",
         "payloadType": "type1",
         "payload": {
            "payload": "Hello"
   ]
}
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

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CHAPTER 11

Engine

The Engine Service is a realtime eventing service that coordinates conversation workflows between customer, business and external channels.

See the *The Big Picture* for more info.

Below is the list of API collections for Hubster's Engine service.

11.1 Conversations

11.1.1 Get Conversation

Get Conversation object using conversation identifier.

GET /api/v1/conversations/{conversationId}

Headers

Header	Description	
Authorization	Bearer your engine access token	
Content-Type	application/json	

Url Segments

Segment	Description	
conversationId	The conversation id to get.	

Response: 200 (OK)

```
{
    "conversationId": "a9cff9d8-0cb2-40f9-b787-01756ca7b92f",
    "integrationId": "...000000000023",
```

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```
"tokenId": "9jP61d8EfmVgSnUtBZsMNw==",
"integration": {
    "integrationId": "...0000000000023",
    "hubId": "...00000000000a2",
    "hub": {
       "hubId": "...00000000000a2",
        "tenantId": "...000000000001",
        "name": "Dev Hub (Websocket)",
        "description": "Dev Hub 2 (Websocket)",
        "statusId": 2000,
        "created": "2019-01-01T00:00:00",
        "modified": "2019-01-01T00:00:00"
    },
    "integrationTypeId": "Customer",
    "channelId": "Direct",
    "name": "Direct Customer Webhook",
    "statusId": 3000,
    "created": "2018-01-01T00:00:00",
    "modified": "2018-01-01T00:00:00"
},
"properties": {
    "profile": {
        "device": "Direct",
        "full name": "Any name"
     "additional": {}
"openedDateTime": "2019-10-28T00:42:12.6452901"
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

11.1.2 Establish Conversation

Establish (create) new Conversation object.

POST /api/v1/conversations/establish

Headers

Header	Description	
Authorization	Bearer your engine access token	
Content-Type	application/json	

Request Properties

Property	Mandatory	Description
integrationId	Yes	Integration identifier.
binding	Yes	Binding key used to get conversation.
channelType	Yes	Type of channel to filter by.
		Valid option is:
		-Direct = 2000
properties	No	See <i>properties</i> object for more info.

Note: Properties can be though of as **metadata** bound to a conversation during establishment. When working for Direct interaction types, the developer can assigned any number properties as necessary. Properties can have one or more collections each containing key/value pairs. In the example below, two such collections have been defined.

By default, Hubster will generate a **profile** collection if not defined. This collection will contain at most, a **device** and **full name** key/value pair. The developer can override anyone of the following values but can also add their own custom key/value pair:

- · profile.device
- · profile.full name
- · profile.first name
- profile.last name
- · profile.user name
- · profile.gender
- · profile.local
- profile.time zone
- profile.imageUrl
- · profile.phone
- · profile.address
- · profile.email

If **profile.device** is not provided, Hubster will default to **Direct**.

If **profile.full name** is not provided, Hubster will default to a random **fun-name**.

Properties

```
{
    "profile": {
        "device": "Direct",
        "full name": "User name here",
        "phone": "416-555-0001",
        "some_custom1": "value1",
        "some_custom2": "value2"
    },
    "additional": {
        "some_custom1": "value1",
        "some_custom1": "value1",
        "some_custom1": "value1",
        "some_custom1": "value1",
```

(continues on next page)

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```
"some_custom2": "value2"
}
```

Response 200 (OK)

11.2 Interactions

11.2.1 Get Activities

Get Activities for a given conversation.

GET /api/v1/interactions/activities/{conversationId}

Headers

Header	Description	
Authorization	Bearer your engine access token	
Content-Type	application/json	

Url Segments

Segment	Description
conversationId	The conversationId id used to retrieve <i>activities</i> .

Request Properties

Property	Mandatory	Description
type	Yes	The sender or recipient integration type that you want to retrieve activities for. For example, if type = 'agent', than all activities whereby, the sender or recipient type = 'agent', will be retrieved. Only the following <i>integration types</i> are valid: • Customer • Agent • Bot
leid	No	The last starting point event timestamp that you want to retrieve activities from for the given conversation. The value must be in UNIX epoch time in milliseconds (UTC) Default is 0, if no value supplied.

Response: 200 (OK)

```
"type": "message",
       "eventTrigger": "message:customer",
       "eventId": 1604758399703,
       "externalId": "some_external_id_0001",
       "isEcho": false,
       "interactionId": "1368fd94-bd85-4dcf-84c7-0175a30dead7",
       "flowProcess": "Default",
       "sender": {
          "integrationType": "Customer",
          "channelType": "WebChat",
          "tokenId": "LDDKEgUsKUmjQzwjNAhL1w=="
       },
       "recipient": {
          "integrationId": "00000000-0000-0000-0000-000000000024",
          "integrationType": "Agent",
          "channelType": "Slack",
          "tokenId": "f7cbbd3d-3071-45d7-abed-01744cad6a7e.00000000-0000-0000-0000-
→000000000024"
       },
       "message": {
          "text": "Hi there!",
          "type": "text"
   },
       "type": "message",
       "eventTrigger": "message:agent",
       "eventId": 1604783877593,
       "externalId": "some_external_id_0002",
```

(continues on next page)

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```
"isEcho": false,
      "interactionId": "13da6b0b-0d66-4277-9e9d-0175a492adda",
      "flowProcess": "Default",
       "sender": {
          "integrationId": "00000000-0000-0000-0000-000000000024",
          "integrationType": "Agent",
          "channelType": "Slack",
          "tokenId": "f7cbbd3d-3071-45d7-abed-01744cad6a7e.00000000-0000-0000-0000-
→000000000024"
      },
       "recipient": {
          "integrationType": "Customer",
          "channelType": "WebChat",
          "tokenId": "LDDKEgUsKUmjQzwjNAhL1w=="
       },
       "message": {
          "text": "Hello! How can I help you today?",
          "type": "text"
   }
```

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
404	Not found. Resource not found.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

11.3 Direct

The **Direct** API is used primarily by *Direct Channel Types* when submitting *Message* or *Event Activity* types.

POST /inbound/customer/v1/direct/activity/{conversationId}

Headers

Header	Description
Authorization	Bearer your portal access token
Content-Type application/json	

Url Segments

Segment	Description
conversationId	The conversation id to send this activity.

Request Properties

When sending activities, there's a minimal amount of header properties that are required. See details below:

Proper	tyMandatory	Description
type	Yes	The type of activity to send. This can only be message type or event type
sender.	in Seg ra tDeskrip- tion	If the source of integrationId is bound to a customer integration, then this property is not required.
		However, if the integrationId is bound to either an agent or bot integration, then this property is required.
externa	H a No	This can be any string value and will be attached to the lifetime of this activity if provided by the sender. Typically this is used by tenants to maintain a reference or metadata to a given tenant resource. For the most part this value will be null.
messag	e See Descrip- tion	When type is set to <i>message</i> then this node is required.
event	See Descrip- tion	When type is set to <i>event</i> then this node is required.

Example Request Body

```
"externalId": "some-external-id",
   "type": "message | event",
   "sender": {
      "message": {
      "type": "text",
      "text": "Hi there!"
   },
   "event": {
      "type": "payload",
      "payloadType": "my.payload.01",
      "payload": {
          "data1": "value1",
          "data2": "value2",
          "data3": "value3"
      }
   }
}
```

Response: 200 (OK)

```
{
    "status": 200,
    "eventId": 1609281295385,
    "externalId": "some-external-id",
    "hubId": "00000000-0000-0000-000000000001",
    "conversationId": "290e83ff-0ae1-4a62-ae8e-01759ad73ffd",
    "integrationId": "00000000-0000-0000-00000000001",
    "interactionId": "d645f70e-30e2-4649-938c-0176b0a3d41b"
}
```

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Note: If the activity type was **event**, then the **interactionId** will not be part of the response.

HTTP Status	Description
200	OK response. The body of the response will include the data requested.
400	Bad request. The body of the response will have <i>more info</i> .
401	Unauthorized. Token is invalid.
403	Forbidden. Access to the requested resource is forbidden.
408	Timed out. The request timed out.
429	Too many requests. API usage limit has been reached.
500	Internal server error. There was an internal issue with the service.
503	Service unavailable. The service is unavailable.

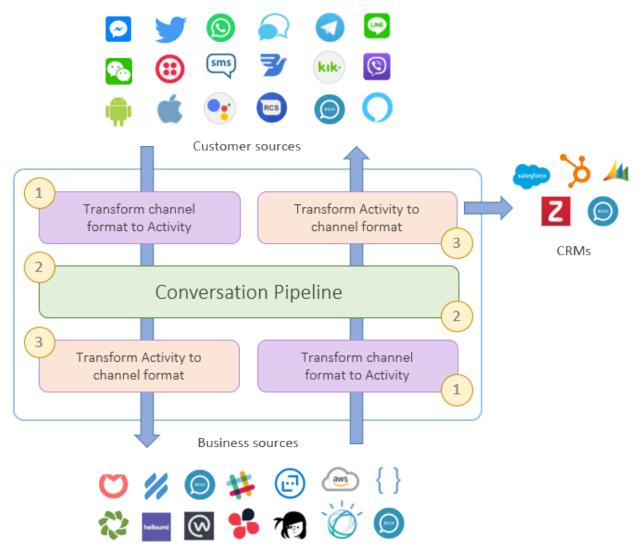
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CHAPTER 12

Activities

When integrating with disparate systems, data coming in or data going out, most likely come in various shapes and formats. In Hubster's case, most integrations may have similar functionalities, however, each integration on their own, have proprietary formats that differ from each other. Because of these numerous differences, it's important to generalize their formats into a common format that is agnostic and most of all consistent. At Hubster, we call this common format an **Activity**. This in essence, is the hallmark behind the concept of **unified messaging**.

This section will explain what an activity is, it's constituents and how it's consumed by Hubster's conversation pipeline. See the depiction below for annotated description on how Hubster transforms both in and outbound data models.



How Hubster's UX Multi-rendering/Response Framework (RRF) works:

- 1. When data is sent by a specific integration type, the **inbound** RRF will transform this data into a Hubster activity for further consumption.
- 2. The conversation pipeline can now freely work and amend the activity without any knowledge of its original source format.
- 3. Once the conversation pipeline completes its workflow, it will send the response to the **outbound** RRF which transforms the activity to the appropriate integration type's proprietary format.

12.1 Activity

An activity is fairly simple structure that contains either a single *Message* or a *Event* type, but not both.

Note: For sake of sample, both **message** and **event** nodes are shown. However, these nodes are mutually exclusive and will never be presented together in actuality.

```
"type": "message|action",
   "eventTrigger": "message:customer",
   "eventId": 1603933721542,
   "externalId": "my-external-id",
   "isEcho": false,
   "flowProcess": "Default",
   "sender": {
      "integrationId": "00000000-0000-0000-0000-000000000001",
      "integrationType": "Customer",
      "channelType": "Direct",
      "tokenId": "t+8qymYD1jp7wDSHG+3eUA=="
   "recipient": {
      "integrationType": "Agent",
      "channelType": "Direct",
      "tokenId": "971480cb-938c-4dfd-be4e-01756c833490.00000000-0000-0000-0000-
→00000000003"
  },
   "message": {
      "type": "text",
      "text": "Hi there!"
   },
   "event": {
      "type": "payload",
      "payloadType": "hubster.transfer",
      "payload": {
          "url": "http://localhost:4200",
          "label": "Click here to be transferred",
          "mount": 1000,
          "force": false
   }
```

Property	pperty Description		
type	The is the type of activity being described. Can either be a message or action .		
eventTrig	gehe source of the trigger. Typically this is the sender of of the activity. See <i>Integration Types</i>		
eventId	The epoch UNIX time in milliseconds when this event was initiated.		
externalI	d This can be any string value and will be attached to the lifetime of this activity if provided by the sender.		
	Typically this is used by tenants to maintain a reference or metadata to a given tenant resource. For the		
	most part this value will be null.		
isEcho	A boolean state indicating wither the activity is an echo. Some custom integrations when sending an		
	activity may wish to receive a feedback activity. This is because when sending an activity, the sender		
	tends to send minimal data. Having echo enabled, the sender will receive a more enriched payload with		
	additional data that can be important to the sender. For example, if the sender sends a youtube link in		
	the message text, Hubster will convert the activity to youtube <i>message type</i> instead.		
interactio	nteraction The interaction id for this activity. This only applies to message types.		
flowProc	es The pipeline flow that was taken. The current values are Default or AutoReplay .		
sender	The sender <i>source</i> of this activity.		
recipient	The recipient (receiver) <i>source</i> of this activity.		
message	7 71 8		
event	If the <i>activity.type</i> is event then this value is required. See <i>event type</i> for more details		

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12.2 Activity Header

When sending activities, there's a minimal amount of header properties that are required. See details below:

Proper	tyMandatory	Description
type	Yes	The type of activity to send. This can only be <i>message</i> or <i>event</i>
sender	ir seg ra tDeskrip-	
	tion	If the source of integrationId is bound to a customer integration, then this property is not required.
		However, if the integrationId is bound to either an agent or bot integration, then this property is required.
externa	H a No	This can be any string value and will be attached to the lifetime of this activity if provided by the sender. Typically this is used by tenants to maintain a reference or metadata to a given tenant resource. For the most part this value will be null.

```
"externalId": "some-external-id",
"type": "message | event",
"sender": {
   },
"message": {
   "type": "text",
   "text": "Hi there!"
},
"event": {
   "type": "payload",
   "payloadType": "my.payload.01",
   "payload": {
      "data1": "value1",
      "data2": "value2",
      "data3": "value3"
   }
}
```

12.3 Activity Source

An activity will always contain a **sender** and **recipient** nodes. The the sender is the source of the activity and the recipient is the source that will receive the activity.

```
"sender": {
    "integrationId": "00000000-0000-0000-00000000001",
    "integrationType": "Customer",
    "channelType": "Direct",
    "tokenId": "t+8qymYD1jp7wDSHG+3eUA=="
},
    "recipient": {
```

(continues on next page)

```
Property Description
integration The integration id of the source.
integration Type of the source.
channel Type of the source.
tokenId Reserved for Hubster.
```

12.4 Message Types

An activity **message** supports the following **types**. Messages are an activity's **first-class-citizen** as they make up the majority of events being sent and received between integrations.

Note: Activities are send via the *Direct API* endpoint. Sending an activity is quite simple and requires minimal amount of header details. Once Hubster receives an activity to process, the engine will enrich the activity with more details, such as sources, etc. See *Activity* on this page.

12.4.1 Text

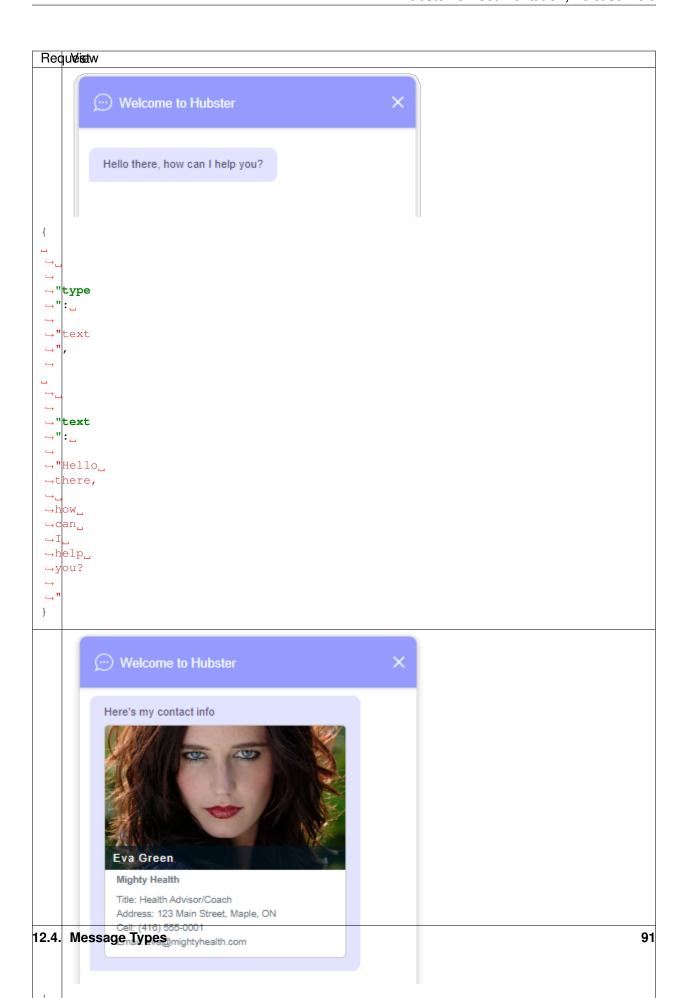
Sources allowed to send: customer, agent and bot.

Proper	tyMandatory	Description
type	Yes	Must be text .
text	See note	The text message to send. Links such as Image, Youtube, Vimeo, Video, Audio or location, may convert this message type to it's property message equivalent if no additional text was provided. If additional text was provided, then Hubster will add a message equivalent, such as Youtube, for example to the items array.
items	See note	
		A list of items containing zero or more of the following messages types: • youtube • vimeo • video • audio • image • attachment • location • contact • card
actions	See note	A list of actions containing zero or more of the following action types: • postback • reply • link

Note: The **text message** type must provide one or more of the following **mandatory** values:

- text
- items
- actions

Examples

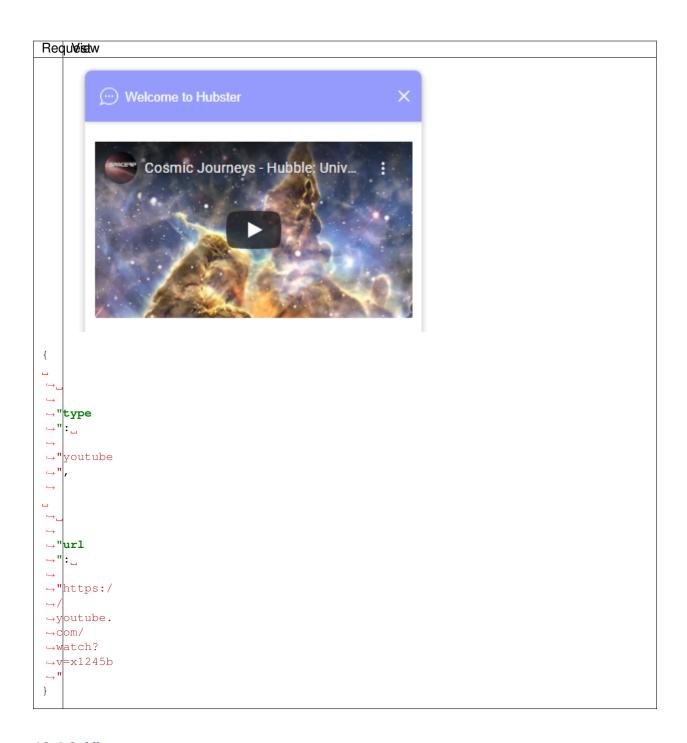


12.4.2 Youtube

Sources allowed to send: customer, agent and bot.

PropertyMandatory PropertyMandatory		Description
type	Yes	Must be youtube .
url	Yes	
		The youtube url, which can be in anyone of the following formats:
		 https://youtube.com/embed/x1245b (preferred) https://youtube.com/watch?v=x1245b https://m.youtube.com/watch?v=x1245b
		• https://youtu.be/watch?v=x1245b

Example

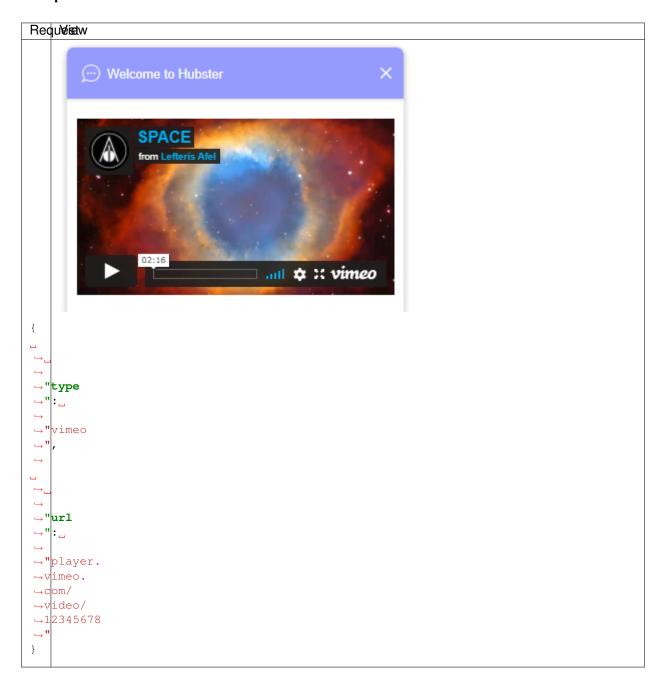


12.4.3 Vimeo

Sources allowed to send: customer, agent and bot.

Proper	tyMandatory	Description
type	Yes	Must be vimeo.
url	Yes	
		The Vimeo url, which can be in anyone of the following formats: • https://player.vimeo.com/video/12345678 (preferred) • https://vimeo.com/12345678

Example

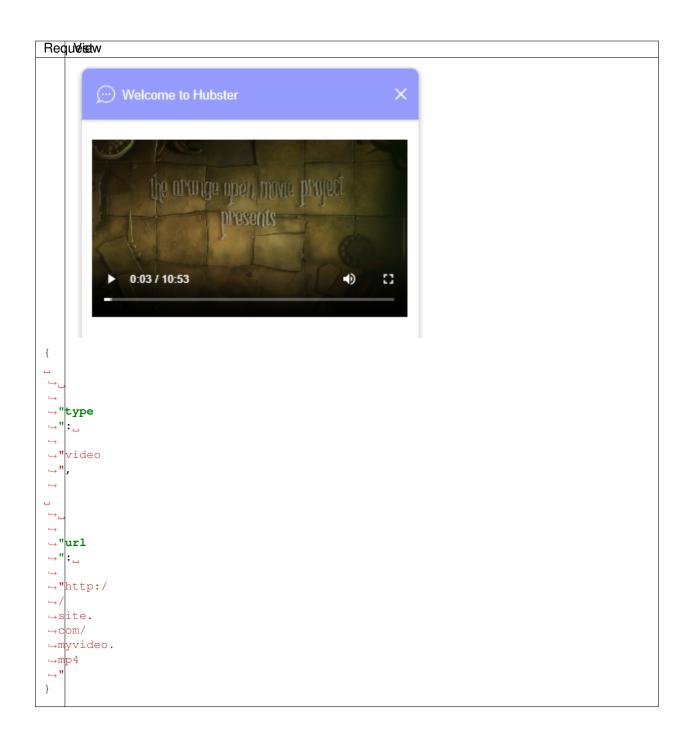


12.4.4 Video

Sources allowed to send: customer, agent and bot.

Proper	tyMandatory	Description
type	Yes	Must be video.
url	Yes	
		The video url, which can be in anyone of the following formats:
		• .mp4 (preferred)
		• .mov
label	No	
		The label of this audio. Think of the label as a title to be displayed.
		Note : label is channel specific and may not render on certain channels.
mimeT	yp N o	The mime type of the video. Hubster will try it's best to determine the mime type based
		on the url .

Example

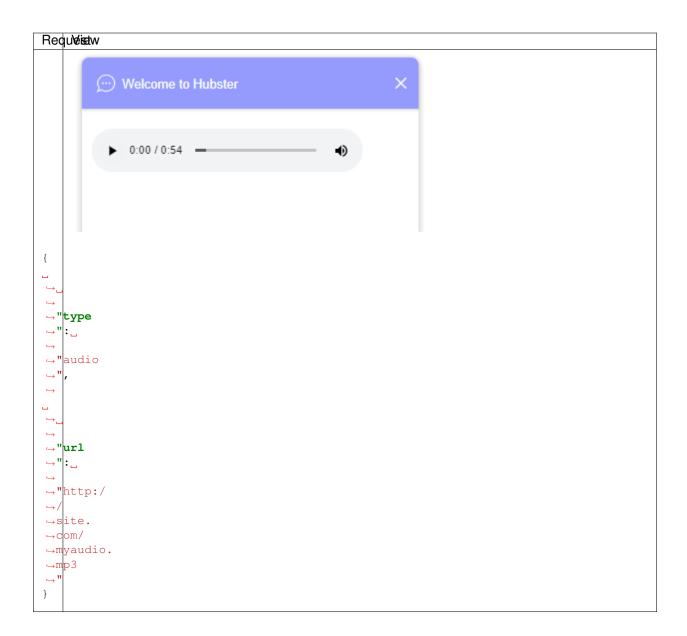


12.4.5 Audio

Sources allowed to send: customer, agent and bot.

Proper	tyMandatory	Description
type	Yes	Must be audio.
url	Yes	
		The audio url, which can be in anyone of the following formats:
		• .mp3 (preferred)
		• .mp4
		• .wav
label	No	
		The label of this audio. Think of the label as a title to be displayed.
		Note : label is channel specific and may not render on certain channels.
mimeT	yp x o	The mime type of this audio. Hubster will try it's best to determine the mime type based
		on the url .

Example



12.4.6 Image

Sources allowed to send: customer, agent and bot.

Proper	tyMandatory	Description
type	Yes	Must be image .
url	Yes	The image url.
urlAnc	naNo	The url anchor. Used when user clicks on image.
alt	No	The alternate text for this image.
title	No	
		The text to show on the image.
		Note : title is channel specific and may not render on certain channels.
channe	ls No	Channel specific applied properties. The example below shows how to render the title on a Webchat channel.

Example

Requiverisetw Welcome to Hubster Eva Green →"type →"image →"url **→"**: __ →"http:/ ⇔site. ->com/ →myimage. →png →", \hookrightarrow →"alt با: ٰ ن Some →alternate_ -text " , \hookrightarrow →"title ⇔":_ 100 _{"Eva} Chapter 12. Activities $\hookrightarrow Green$

12.4.7 Attachment

Sources allowed to send: customer, agent and bot.

PropertyMandatory		Description
type	Yes	Must be attachment.
label	Yes	The label for this attachment.
mimeT	yp ¥ es	The mime type for this attachment i.e pdf, etc.
url	Yes	The attachment url.

Example

```
Requiverisetw
         Welcome to Hubster
           Year end report
→"type
ن : ٰا : ٰ
→"attachment
⇔",
\hookrightarrow
ن اabel
نا: ٰ
ن Year_
→end_
⇔report
" ,
\hookrightarrow
→"mimeType
٠٠": ا
\hookrightarrow
⇔"pdf
→ ",
\hookrightarrow
⇔"url
ن: ا∵
→"http:/
→/
⇔site.
⇔com/
⇔myfile.
⇔pdf
}
```

12.4.8 Location

Sources allowed to send: customer, agent and bot.

PropertyMandatory		Description
type	Yes	Must be location .
Address	s See note	A fully qualified address.
latitude	See note	A latitude coordinate value. Note : The longitude coordinate value must be supplied.
longitue	deSee note	A longitude coordinate value. Note : The latitude coordinate value must be supplied.



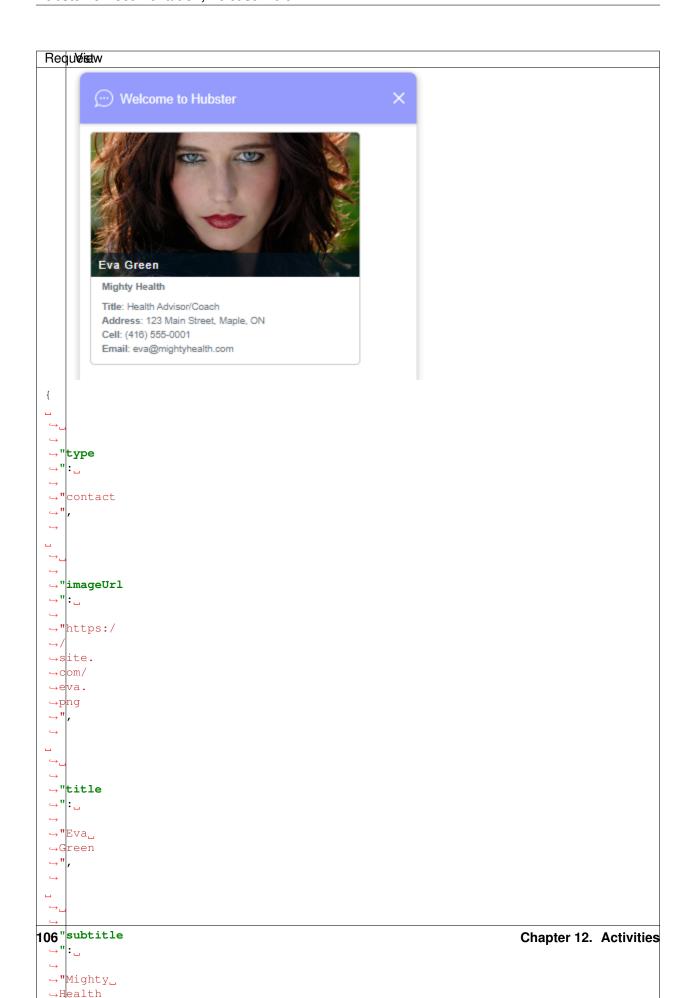
Note: Either a fully qualified **address** or a set of **latitude/longitude** coordinates must be supplied. If both **address** or **latitude/longitude** are supplied, Hubster will resort to using the **latitude/longitude** coordinates as the preferred option.

Please note, when using **latitude/longitude** coordinates, Hubster will try to yield the appropriate address. However, if the address yielded is not exact, then the **latitude/longitude** coordinates may be off. Alternatively, you can always use the **address** property without the need to provide **latitude/longitude** coordinates.

12.4.9 Contact

Sources allowed to send: customer, agent and bot.

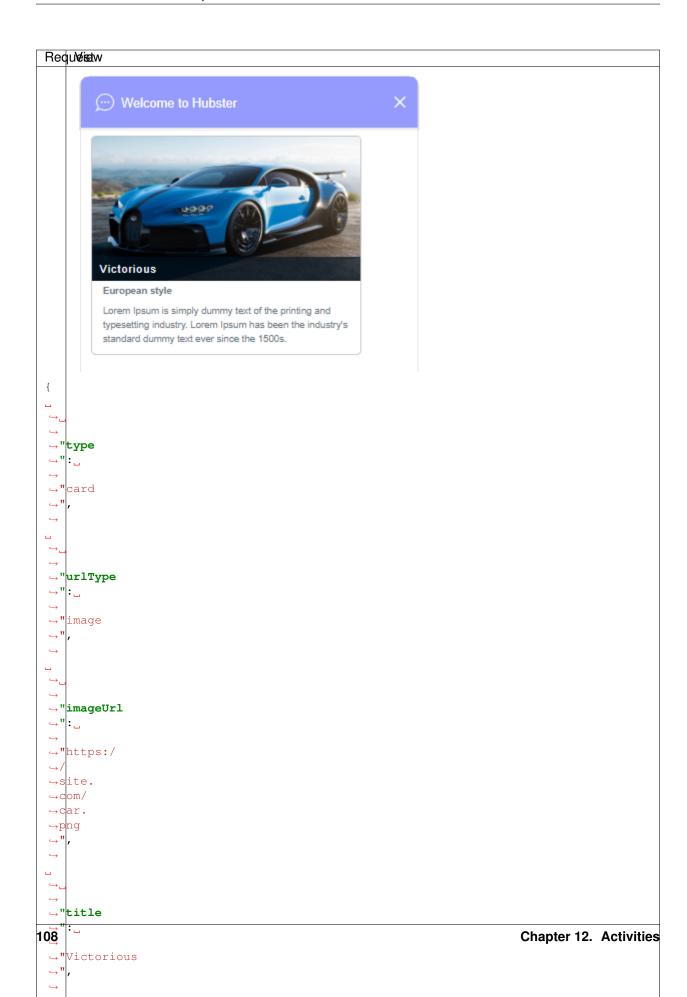
PropertyMandatory	Description
type Yes	Must be contact.
imageUr I No	The image url to the contact.
title Yes	At minimum, the contact message requires a title. i.e. Person's name, company name, job title, etc.
subtitle No	A subtitle for the contact. i.e. company name, job title, etc.
propertieNo	A tuplet made out of key/value/type set that can used to provide more metadata for the contact. See example.
	Note: The type portion of the tuplet is not required, however, if used, can provide additional metadata for certain property types. For example, if Hubster detects that a recipient device supports vcards, such as an SMS device, Hubster will create a contact element, allowing the recipient of the message to store the contact to their device's contact list. Hubster supports the following vcard types and their counterpart: • address; work, home • phone; work, home, cell • email
channels No	Channel specific applied properties. The example below shows how to render the title on a Webchat channel.



12.4.10 Card

Sources allowed to send: ${\color{blue} {\bf customer}}, {\color{blue} {\bf agent}} {\color{blue} {\bf and}} {\color{blue} {\bf bot}}.$

Proper	tyMandatory	Description
type	Yes	Must be card.
urlType	No	
		If url is supplied, then this property is required.
		The possible types are as follows:
		• image
		• youtube
		• vimeo
		• video
		• audio
url	No	
		The link to the resource to display. The urlType property must be provided.
		The possible types are as follows:
		The possible types are as follows.
		• image
		• youtube
		• vimeo
		• video
		• audio
fallback	:I mo geUrl	When supplying a url that supports an image placeholder, such as youtube for example,
		and the link doesn't support an image, Hubster will use the fallbackImageUrl link as
		an alternate.
title	No	A title to display.
subtitle	No	A subtitle to display.
content	No	The content to display.
channel	s No	Channel specific applied properties. The example below shows how to render the title
		on a Webchat channel. Note: only applicable if urlType=image



12.4.11 Carousel

Sources allowed to send: **agent** and **bot**.

Proper	tyMandatory	Description
type	Yes	Must be carousel.
items	Yes	
		Must contain one or more of the following message types:
		• image
		• youtube
		• vimeo
		• video
		• audio
channe	s No	Channel specific applied properties. The example below shows how to render the title
		on a Webchat channel. Note: only applicable to image items.



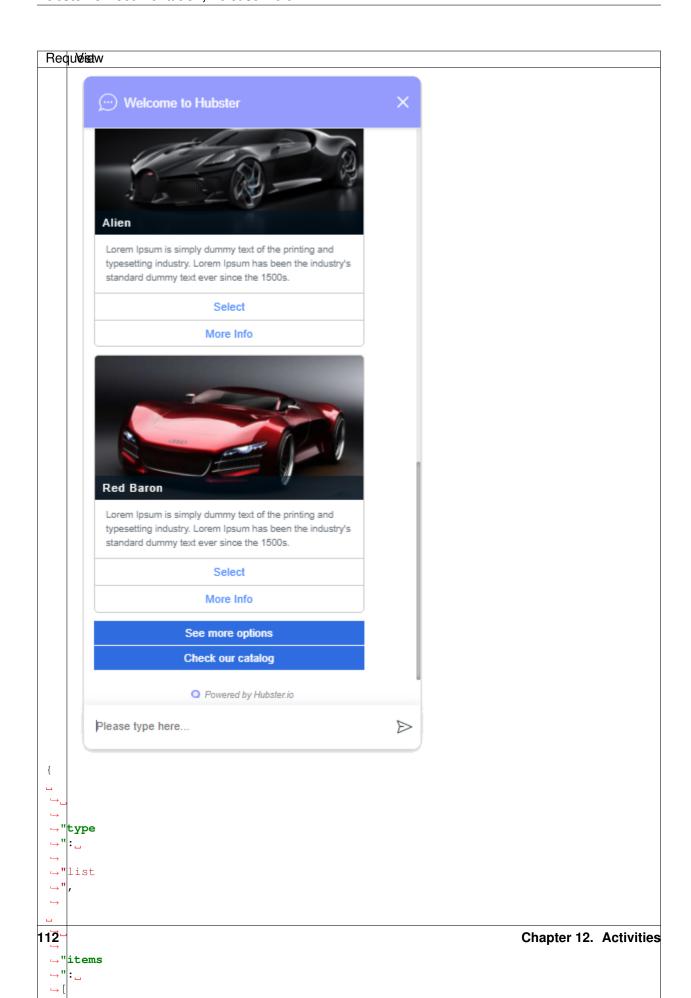
Note: Certain devices do not support carousels. If a device is unable to display a carousel, Hubster will render the carousel as a list.

12.4.12 List

Sources allowed to send: agent and bot.

Note: Lists are similar to Carousels. The only differences are: how it's displayed and that a list provides the ability to offer a global set of **actions** for the message type.

Proper	tyMandatory	Description
type	Yes	Must be list.
items	Yes	
		Must contain one or more of the following message types:
		• image
		• youtube
		• vimeo
		• video
		• audio
actions	No	
		A list of actions containing zero or more of the following action types :
		• postback
		• reply
		• link
channel	s No	Channel specific applied properties. The example below shows how to render the title
		on a Webchat channel. Note: only applicable to image items.



Note: Certain devices do not support lists. If a device is unable to display a list, Hubster will render the list as a carousel.

12.4.13 Commands

Sources allowed to send: agent and bot.

Commands are no different then sending a simple one line **text** message type. The main difference is when issuing a command it must start with a double (colon) :: to be recognized. For example when sending this text, ::some_command -arg1 -arg2, ... Hubster will treat this as a command to be processed.

See examples below:

```
Request

{
  "type": "text",
  "text": "::resp -n contact.eva.green"
}

{
  "type": "text",
  "text": "::trans -force -n shopify"
}
```

12.5 Event Types

Event types are similar to message types and but are simpler in nature.

12.5.1 Basics

Note: Apart from the **payload** event type, the other types are currently not supported and will be on a future Hubster road-map.

```
{
  "type": "seen | typing_on | typing_off | payload"
}
```

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PropertyMandatory		Description
type	Yes	
		Can be any one of the following types:
		 seen - mark the message as been seen typing_on - force the device to show the typing gif typing_off - force the device to turn off the typing gif payload - the event contains a payload - see payload description below

12.5.2 Payload

PropertyMandatory		Description
type	Yes	Must be payload
payload	ТУре	A unique identifier that describes the payload type.
payload	Yes	Can be any json object.

```
{
  "type": "payload",
  "payloadType": "my.payload.01",
  "payload": {
      "data1": "value1",
      "data2": "value2",
      "data3": "value3"
  }
}
```

CHAPTER 13

Types

13.1 Activity Types

Type	Type Description	
Messag	Message The activity contains an message node.	
Event The <i>activity</i> contains an <i>event</i> node.		

13.2 Channel Types

Type	Sourc	eValue	Description
Direct	Gener	al1	Direct channel.
Bot	Busine	es2	Bot channel.
Syster	n Busine	es3	System type. This type is mainly used for Webhooks.
Messe	n gar stoi	n e f01	Facebook Messenger channel.
Twilio	S ØI Stoi	n e f02	Twilio SMS channel.
Line	Custo	n e f03	Line channel.
Telegr	a ı custoı	n e f04	Telegram channel.
Kik	Custo	n e f05	Kik channel.
WebC	h a tustoi	n e f06	WebChat channel.
Slack	Busine	es i 001	Slack channel.

13.3 Integration Types

Туре	Description	
Custom	stomeIntegration type for Customers.	
Agent	Integration type for Agents.	
Bot	Integration type for Bots.	
System	Integration type for Webhooks.	

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CHAPTER 14

Error Codes

Below are a list of all possible REST API error codes for all Hubster API related services.

14.1 Identity

Below is a full list of all possible Hubster Identity REST API error codes.

Error	HTT	PDescription
	Sta-	
	tus	
IDT000100	500	System Error.

14.2 Portal

Below is a full list of all possible Hubster Portal REST API error codes.

Error	HTTPDescription
	Sta-
	tus
PRT000100	500 System Error.
PRT000101	403 Forbidden.
PRT000102	401 Unauthorized access.
PRT000103	Requested operation is not implemented.
PRT000104	Requested resource or operation is not available.
PRT000105	Requested resource was not found.
PRT000106	Resource you are trying to create already exists.
PRT000107	Current request or operation is not valid.
PRT000108	Request took too long to execute and timed out.

Continued on next page

Table 1 – continued from previous page

Error	HTT	PDescription
	Sta-	
	tus	
PRT000109	417	Requested action was aborted.
PRT000110	403	Requested action is not allowed.
PRT000200	400	Required query parameter was not supplied.
PRT000201	400	One or more parameters have invalid format.
PRT000202	400	Please correct supplied format for used parameter(s).
PRT000203	400	Provided GUID has bad format.
PRT000204	400	Provided date has bad format.
PRT000205	400	One or more parameters have invalid date format.
PRT000206	400	Provided parameter value is not supported (out of range).
PRT000207	400	Provided parameter is out of predefined range.
PRT000208	400	Provided parameter has to be greater than zero.
PRT000209	400	Parameter must be greater than or equal to zero.
PRT000210	400	Invalid Number format provided.
PRT000211	400	Invalid email format provided.
PRT000212	400	Criteria parameter is required when supplying a searchBy parameter.
PRT000300	400	Root body section is missing.
PRT000301	400	Required property is missing.
PRT000302	400	Property has is invalid type.
PRT000303	400	Validation failed. Property not supported.
PRT000304	400	Request parameter has bad format. Expected to be a valid decimal value.
PRT000305	400	Request parameter has bad format. Expected to be a valid GUID value.
PRT000306	400	Request collection must contain one or more elements.
PRT000307	400	Messaged was empty.
PRT000308	400	Request body must contain Location, either an address and/or latitude/longitude coordi-
		nates.
PRT000400	400	Tenant already exists.
PRT000401	400	User already exists.
PRT000599	404	User not found.
PRT000600	400	Name already exists.
PRT000699	404	Hub not found.
PRT000700	400	An integration with name already exists.
PRT000701	400	An integration with same name has already been assign to a hub. You can only add this
		channel once across all hubs.
PRT000799	404	Integration not found.

14.3 Engine

Below is a full list of all possible Hubster Engine REST API error codes.

Error	HTTPDescription	
	Sta-	
	tus	
ENG000100	500	System Error.
ENG000101	403	Forbidden.
ENG000102	401	Unauthorized access.
ENG000103	501	Requested operation is not implemented.

Continued on next page

Table 2 – continued from previous page

Error	Freez	1177	Table 2 – continued from previous page
tus ENG000104 410 Requested resource or operation is not available. ENG000105 404 Requested resource was not found. ENG000106 409 Resource you are trying to create already exists. ENG000107 417 Current request or operation is not valid. ENG000108 408 Request took too long to execute and timed out. ENG000109 417 Requested action was aborted. ENG000101 403 Required query parameter was not supplied. ENG000101 403 Required query parameters was not supplied. ENG000201 400 One or more parameters have invalid format. ENG000202 400 Provided GUTD has bad format. ENG000203 400 Provided date has bad format. ENG000204 400 Provided parameter value is not supported (out of range). ENG000205 400 Provided parameter value is not supported (out of range). ENG000207 400 Provided parameter is out of predefined range. ENG000208 400 Provided parameter is to be greater than zero. ENG000209 400 Provided parameter is not usoported (out of range). ENG000201 400 Invalid Number format provided. ENG000210 400 Invalid Number format provided. ENG000211 400 Invalid Number format provided. ENG000201 400 Provided tenant is invalid. ENG000201 400 Provided tenant is invalid. ENG000201 400 Your account is disabled. ENG000200 400 Your account is disabled. ENG000300 400 Conversation request requires body to be present. ENG003000 400 Conversation request parameter has bad format. Expected to be a valid GUID value. ENG003000 400 Direct Inbound request parameter has bad format. Expected to be a valid GUID value. ENG003001 400 Direct Inbound request parameter has bad format. Expected to be a valid GUID value. ENG003002 400 Direct Inbound request parameter has bad format. Expected to be a valid GUID value. ENG00301 400 Direct Inbound request parameter has bad format. Expected to be a valid GUID value. ENG00301 400 Direct Inbound request parameter has bad format. Expected to be a valid GUID value. ENG00301 400 Direct Inbound request bady was empty. ENG00301 400 Direct Inbound request body was empty. ENG00303 400 Direct Inb	Error		ruescription
ENGO00105 440 Requested resource was not found. ENGO00106 409 Requested resource was not found. ENGO00107 417 Current request or operation is not vaile. ENGO00108 409 Resource you are trying to create already exists. ENGO00108 408 Request do not not vaile. ENGO00109 417 Requested action was aborted. ENGO00110 403 Requested action is not allowed. ENGO00200 400 Required query parameter was not supplied. ENGO00201 400 One or more parameters have invalid format. ENGO00202 400 Provided guta has bad format. ENGO00203 400 Provided data has bad format. ENGO00205 400 Provided parameter shave invalid data format. ENGO00206 400 Provided parameter value is not supported (out of range). ENGO00207 400 Provided parameter is not of predefined range. ENGO00208 400 Provided parameter has to be greater than zero. ENGO00209 400 Provided parameter has to be greater than zero. ENGO00210 400 Provided parameter has to be greater than zero. ENGO00211 400 Invalid Alumber format provided. ENGO00210 400 Provided renart is invalid. ENGO00200 400 Provided renart is invalid. ENGO00300 400 Conversation request requires body to be present. ENGO00300 400 Conversation request is missing required property. ENGO00300 400 Conversation request is missing required property. ENGO00300 400 Direct Inbound request does not support provided property. ENGO00300 400 Direct Inbound request tools not support provided property. ENGO00300 400 Direct Inbound request tools not not ont on or more elements. ENGO00300 400 Direct Inbound request parameter has bad format. Expected to be a valid GUID value. ENGO00300 400			
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ENGO00107 477 Current request or operation is not valid.			
ENG000107 417 Current request or operation is not valid.			1
ENG000108			
ENG000109 417 Requested action was aborted.			
ENG000101 403 Requisted action is not allowed. ENG000201 400 Doe or more parameters have invalid format. ENG000202 400 Please correct supplied format for used parameter(s). ENG000203 400 Provided GUID has bad format. ENG000205 400 One or more parameters have invalid date format. ENG000205 400 One or more parameters have invalid date format. ENG000206 400 Provided parameter value is not supported (out of range). ENG000207 400 Provided parameter value is not supported (out of range). ENG000208 400 Provided parameter is out of predefined range. ENG000209 400 Provided parameter is out of predefined range. ENG000210 400 Provided parameter is out of predefined range. ENG000211 400 Invalid Number format provided. ENG000211 400 Invalid Number format provided. ENG000201 400 Invalid Number format provided. ENG002000 400 Provided tenant is invalid. ENG002001 400 Criteria parameter is required when supplying a searchBy parameter. ENG002000 400 Provided tenant is invalid. ENG002001 400 Conversation request requires body to be present. ENG003000 400 Conversation request requires body to be present. ENG003000 400 Conversation request requires body to be present. ENG003000 400 Direct Inbound request is missing required property. ENG005001 400 Direct Inbound request sensitives body to be present. ENG005001 400 Direct Inbound request sensitives body to be present. ENG005001 400 Direct Inbound request sensitives body to be present. ENG005001 400 Direct Inbound request is missing required property. ENG005001 400 Direct Inbound request sensitives body to be present. ENG005001 400 Direct Inbound request one one of the following sections: root.message or root.event. ENG005001 400 Direct Inbound request one one of the following sections: root.message or root.event. ENG005001 400 Direct Inbound request body was empty. ENG005001 400			
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ENG006500 404 Provided conversation does not exist. ENG006501 400 Customer is no longer responding to messages.	ENGOCCOO	404	
ENG006501 400 Customer is no longer responding to messages.			
ENG006502 400 Your Hubster integration has been terminated and is no longer active. Please contact your			
	ENG006502	400	
Administrator.			

Continued on next page

14.3. Engine 119

Table 2 – continued from previous page

Error	HTT	PDescription
	Sta-	
	tus	
ENG006503	400	Conversation was paused.
ENG007500	400	Conversation encountered a web related issue.
ENG007501	400	Conversation encountered a web security related issue.
ENG007502	400	Conversation encountered a runtime related issue.
ENG007510	400	Customer failed to receive your message. This was due to an unauthorized issue on their
		end. Please check with your Administrator.
ENG007511	400	A web related issue was detected on Hub.
ENG007512	400	An unreachable web-endpoint was detected on Hub.
ENG008000	400	Message Spark encountered a web related issue.
ENG008001	400	Message Spark encountered a web security related issue.
ENG008002	400	Message Spark encountered a runtime related issue.
ENG008500	400	No upload files were provided.
ENG008501	400	Invalid URL was provided.
ENG008502	400	File you submitted was not received by the other party.
ENG008503	400	The other party tried to send you a file but failed.
ENG009000	400	Invalid command. You must have an actually command in front of the double colon e.g.
		::mycommand [args]
ENG009001	400	Unknown command.
ENG009200	400	Command was not found. Please type :: {1}list to see the full list of available
		commands.
ENG009201	400	No commands have been configured for this hub.
ENG009202	400	No commands were found for the category.
ENG009299	400	There was an error while executing command. Please contact technical support.

14.4 Events

Below is a full list of all possible Hubster Events REST API error codes.

Error	HTTPDescription	
	Sta-	
	tus	
EVT000100	500 System Error.	