



HaulHub ReadyMix eTicket Ingest API

Our ticket integration system is designed to accept tickets submitted via HTTPS POST as JSON documents. We will provide an API key specific to each customer that will be included in each request as an HTTP header.

Request Structure

We can accept an array of ticket objects within a single request. The number of tickets accepted in a request is capped at **30**, and the server will respond with a 400 response if that cap is exceeded. The document looks like this:

```
{
  "tickets": [
    {
      "code": "82855",
      "company_id": 4570,
      "company_label": "PHEND AND BROWN INC (00014431)",
      "contract_number": "24680135",
      "delivery_instructions": "US33 N\\TO COLLEGE****BATCH WGTS ***2300 ON METER",
      "dispatcher_user_id": null,
      "is_cancelled": 0,
      "mix_id": "453CF25",
      "order_label": "74525",
      "plant_id": 182,
      "plant_label": "GOSHEN-E (369)",
      "primary_product_quantity": 8,
      "primary_product_slump": 1.5,
      "project_id": 511642,
      "project_label": "US 33 AT COLLEGE AVE, R-41821-A (000102)",
      "purchase_order_number": "R41821A",
      "sequence": 8,
      "supplier": "OZINGA",
      "supplier_code": "RSB43A42",
    }
  ]
}
```

```
"asset_id": 540,
"asset_label": "2112",
"fleet_id": 123,
"fleet_name": "C. Hatfield",
"license_1": "19148T2",
"license_2": "51122v3",
"license_3": "98382P4",
"timezone": "America/New_York",
"allocate_datetime": "2021-09-10 10:25:04",
"begin_load_datetime": "2021-09-10 10:29:35",
"finish_load_datetime": "2021-09-10 10:33:00",
"to_job_datetime": "2021-09-10 10:36:00",
"on_job_datetime": "2021-09-10 10:53:00",
"begin_pour_datetime": "2021-09-10 11:09:00",
"finish_pour_datetime": "2021-09-10 11:30:00",
"to_plant_datetime": "2021-09-10 11:45:00",
"arrive_plant_datetime": "2021-09-10 11:50:00",
"ticket_products": [
  {
    "product_id": 3225,
    "product_code": "3634",
    "application_type": "primary",
    "product_uom": "yd^3",
    "product_name": "INDOT CLASS A LOW SLUMP",
    "quantity": 8
  },
  {
    "product_id": 8181,
    "product_code": "EC",
    "application_type": null,
    "product_uom": "yd^3",
    "product_name": "ENVIRONMENTAL CHARGE",
    "quantity": 8
  }
],
"batch_weights": [
  {
    "material_id": 568,
    "material_label": "INDOT #8 LIMESTONE (CA-IN8HA)",
    "material_uom": "lb",
    "theoretical_quantity": 2638.7,
    "target_quantity": 2673,
    "actual_quantity": 2670,
    "error_percentage": -0.11,
    "moisture_percentage": 1.3
  },
  {
    "material_id": 337,
    "material_label": "LAFARGE ALPENA CEMENT (CEM-LAFA)",
    "material_uom": "lb",
    "theoretical_quantity": 846,
    "target_quantity": 846,
    "actual_quantity": 1075,
    "error_percentage": 27.07,
    "moisture_percentage": 0
  }
]
```

```
    },
    {
      "material_id": 27,
      "material_label": "WATER REDUCER GCP ZYLA 630 (WR-Z630)",
      "material_uom": "oz",
      "theoretical_quantity": 30,
      "target_quantity": 30,
      "actual_quantity": 30,
      "error_percentage": 0,
      "moisture_percentage": 0
    }
  ]
}
```

Integration Endpoint

Requests must be submitted via POST to the following endpoint.

<https://app.haulhub.com/integrations/api/v1/tickets>

Required HTTP Headers

Header	Value
Content-Type	application/json
x-hh-api-token	Customer API key (supplied separately)

Requests can be made via this curl equivalent:

```
1$ curl -X POST -H "Content-Type: application/json" -H "x-hh-api-token: 96d5ab42-4273-4c7f-b8cf-c84c22c1d7b1" -d @mypayload https://app.haulhub.com/integrations/api/v1/tickets
```

Ticket Fields

FIELD NAME	SAMPLE VALUE	DESCRIPTION
code	82855	Supplier ticket number
company_id	4570	Customer ID
company_label	PHEND AND BROWN INC (00014431)	Customer Name
contract_number	24680135	For DOT projects this must be the state project number.
delivery_instructions	US33 N\TO COLLEGE****BATCH WGTS ***2300 ON METER	Comments
dispatcher_user_id	null	Dispatcher ID or Name
is_cancelled	0	Ticket Void (0/1)
mix_id	453CF25	State approved JMF number
order_label	74525	Order ID / Label
plant_id	182	Plant Id
plant_label	GOSHEN-E (369)	Plant Name
primary_product_quantity	8	
primary_product_slump	1.5	
project_id	511642	Project ID
project_label	US 33 AT COLLEGE AVE, R- 41821-A (000102)	Project Name
purchase_order_number	R41821A	PO#
sequence	8	Number of loads
supplier	OZINGA	Supplier Name (Your name)
supplier_code	RSB43A42	State defined plant id
asset_id	540	Truck identifier
asset_label	2112	Truck name
fleet_id	123	Fleet ID
fleet_name	Heritage	FleetName
license_1 license_2 license_3	DYR2-34G	Licenses
timezone	America/New_York	IANA defined timezone of all timestamps https://en.wikipedia.org/wiki/List_of_tz_data_base_time_zones
allocate_datetime	2021-09-10 10:25:04	Ticket create time
begin_load_datetime	2021-09-10 10:29:00	'YYYY-MM-DD hh:mm:ss' or 'yyyymmdd HHmmss.SSS'
finish_load_datetime	2021-09-10 10:33:00	
to_job_datetime	2021-09-10 10:36:00	
on_job_datetime	2021-09-10 10:53:00	
begin_pour_datetime	2021-09-10 11:09:00	
finish_pour_datetime	2021-09-10 11:30:00	
to_plant_datetime	2021-09-10 11:45:00	
arrive_plant_datetime	2021-09-10 11:50:00	
ticket_products		Unbound list (repeat object as many times as needed)
product_id	3225	
product_code	3634	

application_type	primary	This value must be set for the primary product on the ticket. Additional ticket_products should omit this value.
product_uom	yd^3	The primary product units should be either "yd^3" for cubic yards or "ton" for weights. Other values are accepted but will be omitted from summary calculations.
product_name	INDOT CLASS A LOW SLUMP	
quantity	8	
batch_weights		Unbound list (repeat object as many times as needed)
material_id	568	
material_label	INDOT #8 LIMESTONE (CA-IN8HA)	
material_uom	lb	
theoretical_quantity	2638.7	
target_quantity	2673	
actual_quantity	2670	
error_percentage	-0.11	
moisture_percentage	1.3	

Customer-Specific Fields

Often partners will have data that they would like to display on tickets which are not covered by the above lists. Customer-specific fields can solve that problem. Use the following naming convention to specify a customer-specific field:

```
"HHCustom.My Field": "field value"
```

This will create a field called My Field which will display on the ticket alongside the value field value.

Common ReadyMix custom fields examples include

```
HHCustom.Driver  
HHCustom.Driver Phone  
HHCustom.Delivery Address  
HHCustom.Usage  
HHCustom.BatchTime  
HHCustom.QuantityOrdered  
HHCustom.Customer Phone  
HHCustom.JobSite Phone
```

By default, the order in which customer-specific fields are displayed is not guaranteed.

However, if you want to ensure that fields are displayed in a certain order, you can add indices to the field list, like so:

```
"HHCustom10.My Field": "value1",  
"HHCustom15.Second Field": "value2",  
"HHCustom.Displays Last": "value3"
```

The indices do not need to be consecutive. Any fields without an index will be displayed at the end of the list in an indeterminate order.

Note: the number of customer-specific fields that can be associated with a ticket is capped at 100. Field names may not exceed 100 characters, and field values may not exceed 1000 characters.