Push API Implementation Document

Status Tracking

Version History

Version	Date	Changes	Author
0.1 Beta	Mar-2017	Beta testing	Jayesh A
Live	May-2018	Push API	Janhavi

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Scope:

This transaction set can be used by a transportation carrier to provide shippers, consignees, and their agents with the status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance.

The Status Tracking data will be periodically extracted from the Operations ERP and using web services, the data in a Json format will be pushed to the customer web server.

There will be three retry mechanism to resend the data in case of any exception encountered during the data transfer. The exception could be of the nature of data content, network related, Infra related etc.

Status Tracking Structure:

Please find below the list of fields which would be used in the Status Tracking transaction.

Block	Fields	Data Type	Description	Sample Values	Lite	Plus	Advanced
StatusTracking							
Shipment							
	SenderID	Character (4)	The Courier being used for transport	BDEL		Yes	Yes
	ReceiverID	Character (20)	Identifier of business unit	SBI		Yes	Yes
	WaybillNo	Character (12)	Waybill or Track Number	40950937123	Yes	Yes	Yes
	RefNo	Character (20)	Customer's Reference for the Package	IN001-138560-4480	Yes	Yes	Yes
	Prodcode	Character (1)	The service offered by the Courier (D/A/E)	D		Yes	Yes
	SubProductCode	Character (1)	Sub offering of the Service ex. Cod, Prepaid (C/P)			Yes	Yes
	Feature	Character (1)	Any Specific Feature ex. TDD, Dart Plus (lite product) (T/N/L)			Yes	Yes
	Origin	Character (25)	Origin name where the shipment is picked	MUMBAI		Yes	Yes
	OriginAreaCode	Character (3)	3 letter Origin area code from where the shipment is picked	BOM		Yes	Yes
	Destination	Character (25)	Destination name where the delivery happens	GURGAON		Yes	Yes
	DestinationAreaCode	Character (3)	3 letter destination location code where the delivery happens	GGN		Yes	Yes
	PickUpDate	DATE	Shipment Pickup date (dd-mm-yyyy)	02-06-2017		Yes	Yes
	PickUpTime	Character (4)	Time of pick up (24 hour format,i.e. 2359)	1800		Yes	Yes
	ExpectedDeliveryDate	DATE	Expected Delivery Date (dd-mm-yyyy)	02-06-2017		Yes	Yes
	Weight	NUMBER(7,2)	Shipment Weight	0.5		Yes	Yes
	ShipmentMode	Character (3)	Forward and reverse shipment identifier	F- Forward , R-Reverse		Yes	Yes
	DynamicExpectedDeliveryDate	DATE	Dynamic Expected Delivery Date (dd-mm-yyyy)	20-09-2018			Yes
	SpecialInstruction	Character(50)	Special comments regarding scan		Yes	NO	NO
	CustomerCode	Character (6)	Customer Code	123456	Yes	Yes	Yes
	Scans						
	ScanType	Character (2)	Status group are DL - Closure, RT-RTO, RD-Redirect, UD-Undelivered	DL	Yes	Yes	Yes
	ScanGroupType	Character (2)	Status type T - Status , S - Scan , RT- Return shipment Status,	T	Yes	Yes	Yes

			RS - Return shipment scan				
	ScanCode	Character (3)	Status Codes defined for activities	0	Yes	Yes	Yes
	Scan	Character (50)	Status description	SHIPMENT DELIVERED	Yes	Yes	Yes
	ScanDate	DATE	Status Date (dd-mm-yyyy)	03-06-2017	Yes	Yes	Yes
	ScanTime	Character (4)	Status Time (24 hour format,i.e. 2359)	1127	Yes	Yes	Yes
	ScannedLocationCode	Character (3)	3 letter Event location code	ADR	Yes	Yes	Yes
	ScannedLocation	Character (25)	Location description	ADARSH		Yes	Yes
	ScannedLocationCity	Character (20)	Location City description	MUMBAI		Yes	Yes
	ScannedLocationStateCode	Character (2)	Location belongs to which State	MH		Yes	Yes
	StatusTimeZone	Character (4)	Time Zone , IST	UTC,IST		Yes	Yes
	Comments	Character(50)	Special comments regarding scan			Yes	Yes
	StatusLatitude	Character(25)	Latitude of the Event Location				Yes
	StatusLongitude	Character(25)	Longitude of the Event Location				Yes
	SorryCardNumber	Character(25)	Sorry card number				Yes
	ReachedDestinationLocation	Character(1)	Shipment reached to last mile lcoation	Y/N			Yes
	SecureCode	Character(6)	Secure code OTP	123456			Yes
	DeliveryDetails		IF Group = DL (condition: Only For Delivered Case)				
	ReceviedBy	Character (30)	Name of the person who accepted the delivery (Only For Delivered Case)	PRABHAT	Yes	Yes	Yes
	Relation	Character (30)	Relation to the Intented Package's Recipient	self		Yes	Yes
	IDtype	Character (2)	ID Proof Shown for Securitized Shipments	PC		Yes	Yes
	IDNumber	Character (20)	ID Number of the Above ID	AAAAAAAAAAAA		Yes	Yes
	IDDescription	Character (30)	ID Descriotion	Pan Card		Yes	Yes
	IDImage	BLOB	Image taken during Delivery				Yes
	Signature	BLOB	Signature Proof				Yes
	SecurityCodeDelivery	Character(1)	Delivery done based on Security Code for secure delivery shipments	Y/N	Yes	Yes	Yes
	QC Reason					Yes	Yes
	Type	Character (1)	Flag to identify QC pass or Failure cases. P - QC pass , F - QC failure case	P/F		Yes	Yes
	Reason	Character (30)	Reason for failure			Yes	Yes
	Pictures	BLOB	Pictures taken while QC - Multiple in a subset array			Yes	Yes

Reweigh			If the scan for Reweigh Group = RW (Condition) (Array)				
MPSNumber	Character (16)		PieceID				Yes
RWActualWeight	NUMBER(7,2)		Weight from the WDL	0.5			Yes
RWLength	NUMBER(5)		Length from WDL				Yes
RWBreadth	NUMBER(5)		Breadth from WDL				Yes
RWHeight	NUMBER(5)		Height from WDL				Yes
RWVolWeight	NUMBER(7,2)		Calculated Volumetric weight	0.5			Yes
CallLogs			Direct Calls , Call Bridge , SMS				
Message	Character (300)		Call Status				Yes
LogDate	DATE		Log Date (dd-mm-yyyy)	03-06-2017			Yes
LogTime	Character (4)		Log Time (24 hour format,i.e. 2359)	1127			Yes
POD DC Images			POD hard copy image and delivery Chelan images				
PODImage	BLOB		Hard copy image				Yes
DCImage	BLOB		Delivery Chelan Image				Yes
Imagesequence	NUMBER(2)		Number of images including DC images				Yes
RWImage			If the scan for Reweigh Group = RWI (Condition) (Array)				
MPSNumber	Character (16)		PieceID				Yes
RWImageURL	Character (100)		Reweigh Image URL				Yes
Lite will not have header detail splits... All are single record case.							

Partnership Setting:

To establish a partnership connection between both organization, there are certain details which needs to be shared and configured to ensure there is sufficient security as well as controls are maintained for this automated data transfer.

Blue Dart Infra Details:

Blue Dart Source IPs	
Production	Prodedi.bluedart.com [14.142.125.213 , 14.142.125.214]
UAT Testing	Qaedi.bluedart.com [14.142.125.218]

Blue Dart IPs needs to be white listed at the Firewall at Customer end.

Customer Details:

Customer On-boarding Profile Details		
Organisation	Blue Dart Express Ltd	*Customer*
ID	BDEL	*Customer Name*
Business Unit	BDEL	*Customer Name*

Customer's Web Server Details			
		URL	Ports
Production	http		
Production	https		
UAT	http		
UAT	https		
Web Server Certificate Authority			

Security Method:

Authentication Mode (Choose One)	
Only User-ID & Password	[ ]
Authentication based on License Key	[ ]
Time Based Token	[ ]

Only User-ID & Password

Test Credentials:

User ID:	*stagingID*

Password:	*To be Provided*
Live Credentials:	
User ID:	*LiveID*
Password:	*To be Provided*

Authentication based on License Key

Test Credentials:

client-id:	*stagingID*
License Key:	*To be Provided*
Live Credentials:	
client-id:	*LiveID*
License Key:	*To be Provided*

Time Based Token

Test Credentials: Token will sent in request header in each request.

client-id:	*stagingID*
client-secret:	*hg56df56gf2j24we28fv8j6k2d32ds*
email:	*DevDesk@customer.com*
password:	*stagepass*

Live Credentials: Token will sent in request header in each request

client-id:	*CustomerID*
client-secret:	*g5s6h575d2f6sh586k4d65g4j648l12d323yh5*
email:	*LiveHelpDesk@customer.com*
password:	*LivePassword*

Contact Details:

Customer's Contact Details	
Contact Name (Technical 1)	
Contact Number (Technical 1)	
Email Address (Technical 1)	
Contact Name (Technical 2)	
Contact Number (Technical 2)	
Email Address (Technical 2)	
Contact Name (Business)	

Contact Number (Business)	
Email Address (Business)	
Customer Country	

Sample Payload:

Sample Files (Push API Lite)
```
{
 "statustracking": [
  {
   "Shipment": {
    "WaybillNo": "57941201614",
    "RefNo": "",
    "Scan": "SHIPMENT OUTSCAN",
    "ScanCode": "002",
    "ScanGroupType": "S",
    "ScanDate": "23-05-2019",
    "ScanTime": "1448",
    "ScanType": "UD",
    "ScannedLocationCode": "PLW",
    "Comments": ""
   }
  },
  {
   "Shipment": {
    "WaybillNo": "57941201614",
    "RefNo": "",
    "Scan": "RESIDENCE/OFFICE CLOSED;CANT DELIVER",
    "ScanCode": "003",
    "ScanGroupType": "T",
    "ScanDate": "23-05-2019",
    "ScanTime": "1452",
    "ScanType": "UD",
    "ScannedLocationCode": "PLW",
    "Comments": ""
   }
  },
  {
   "Shipment": {
    "WaybillNo": "57941201614",
    "RefNo": "",
    "Scan": "SHIPMENT INSCAN",
    "ScanCode": "001",
    "ScanGroupType": "S",
    "ScanDate": "23-05-2019",
    "ScanTime": "1436",
    "ScanType": "UD",
    "ScannedLocationCode": "TWH",
    "Comments": ""
   }
```

```
      }
    ]
  }
```

```
{
  "statustracking": [
    {
      "Shipment": {
        "SenderID": "Bluedart",
        "ReceiverID": "TATAUNISTORE",
        "WaybillNo": "69679343790",
        "Origin": "NEW DELHI",
        "OriginAreaCode": "DEL",
        "Destination": "MUMBAI",
        "DestinationAreaCode": "GOR",
        "PickUpDate": "27-05-2019",
        "PickUpTime": "1444",
        "ShipmentMode": "F",
        "ExpectedDeliveryDate": "28-05-2019",
        "Feature": "",
        "RefNo": "5671827",
        "Prodcode": "A",
        "SubProductCode": "P",
        "Weight": "0.5",
        "DynamicExpectedDeliveryDate": "28-05-2019",
        "Scans": {
          "ScanDetail": [
            {
              "Scan": "SHIPMENT DELIVERED",
              "ScanCode": "000",
              "ScanGroupType": "T",
              "ScanDate": "28-05-2019",
              "ScanTime": "1425",
              "ScannedLocation": "GOREGAON",
              "ScanType": "DL",
              "Comments": "tatacliq_order",
              "ScannedLocationCode": "GOR",
              "ScannedLocationCity": "MUMBAI",
              "ScannedLocationStateCode": "MH",
              "StatusTimeZone": "IST",
              "StatusLatitude": "19.139593333333334",
              "StatusLongitude": "72.86305666666667",
              "SorryCardNumber": "",
              "ReachedDestinationLocation": "Y",
              "SecureCode": ""
            }
          ],
          "DeliveryDetails": {
```

```json
          "IDNumber": "",
          "IDType": "",
          "ReceivedBy": "RASHMI",
          "Relation": "",
          "SecurityCodeDelivery": "",
          "Signature": "",
          "IDImage": ""
        },
        "Reweigh": {
          "MPSNumber": "",
          "RWActualWeight": "",
          "RWLength": "",
          "RWBreadth": "",
          "RWHeight": "",
          "RWVolWeight": ""
        },
      }
    }
  },
  {
    "Shipment": {
      "SenderID": "Bluedart",
      "ReceiverID": "TATAUNISTORE",
      "WaybillNo": "69679343790",
      "Origin": "NEW DELHI",
      "OriginAreaCode": "DEL",
      "Destination": "MUMBAI",
      "DestinationAreaCode": "GOR",
      "PickUpDate": "27-05-2019",
      "PickUpTime": "1444",
      "ShipmentMode": "F",
      "ExpectedDeliveryDate": "28-05-2019",
      "Feature": "",
      "RefNo": "5671827",
      "Prodcode": "A",
      "SubProductCode": "P",
      "Weight": "0.5",
      "DynamicExpectedDeliveryDate": "28-05-2019",
      "Scans": {
        "ScanDetail": [
          {
            "Scan": "SHIPMENT DELIVERED",
            "ScanCode": "000",
            "ScanGroupType": "T",
            "ScanDate": "28-05-2019",
            "ScanTime": "1425",
            "ScannedLocation": "GOREGAON",
            "ScanType": "DL",
            "Comments": "tatacliq_order",
            "ScannedLocationCode": "GOR",
            "ScannedLocationCity": "MUMBAI",
            "ScannedLocationStateCode": "MH",
            "StatusTimeZone": "IST",
            "StatusLatitude": "19.139593333333334",
            "StatusLongitude": "72.86305666666667",
            "SorryCardNumber": "",
            "ReachedDestinationLocation": "Y",
            "SecureCode": ""
```

```json
          }
        ],
        "DeliveryDetails": {
          "IDNumber": "",
          "IDType": "",
          "ReceivedBy": "RASHMI",
          "Relation": "",
          "SecurityCodeDelivery": "",
          "Signature": "",
          "IDImage": ""
        },
        "Reweigh": {
          "MPSNumber": "",
          "RWActualWeight": "",
          "RWLength": "",
          "RWBreadth": "",
          "RWHeight": "",
          "RWVolWeight": ""
        },
      }
    }
}
,
{
  "Shipment": {
    "SenderID": "Bluedart",
    "ReceiverID": "TATAUNISTORE",
    "WaybillNo": "69679343790",
    "Origin": "NEW DELHI",
    "OriginAreaCode": "DEL",
    "Destination": "MUMBAI",
    "DestinationAreaCode": "GOR",
    "PickUpDate": "27-05-2019",
    "PickUpTime": "1444",
    "ShipmentMode": "F",
    "ExpectedDeliveryDate": "28-05-2019",
    "Feature": "",
    "RefNo": "5671827",
    "Prodcode": "A",
    "SubProductCode": "P",
    "Weight": "0.5",
    "DynamicExpectedDeliveryDate": "28-05-2019",
    "Scans": {
      "ScanDetail": [
        {
          "Scan": "SHIPMENT DELIVERED",
          "ScanCode": "000",
          "ScanGroupType": "T",
          "ScanDate": "28-05-2019",
          "ScanTime": "1425",
          "ScannedLocation": "GOREGAON",
          "ScanType": "DL",
          "Comments": "tatacliq_order",
          "ScannedLocationCode": "GOR",
          "ScannedLocationCity": "MUMBAI",
          "ScannedLocationStateCode": "MH",
          "StatusTimeZone": "IST",
          "StatusLatitude": "19.139593333333334",
```

```
        "StatusLongitude": "72.86305666666667",
        "SorryCardNumber": "",
        "ReachedDestinationLocation": "Y",
        "SecureCode": ""
      }
    ],
    "DeliveryDetails": {
      "IDNumber": "",
      "IDType": "",
      "ReceivedBy": "RASHMI",
      "Relation": "",
      "SecurityCodeDelivery": "",
      "Signature": "",
      "IDImage": ""
    },
    "Reweigh": {
      "MPSNumber": "",
      "RWActualWeight": "",
      "RWLength": "",
      "RWBreadth": "",
      "RWHeight": "",
      "RWVolWeight": ""
    }
   }
  }
 }
]
}
```

Sample Files (Push API Advance)
```
{
 "statustracking": [
  {
```

      "Shipment": {
       "SenderID": "Bluedart_Push",
       "ReceiverID": "XXXXXXXX",
       "WaybillNo": "70403638631",
        "Origin": "NOIDA",
         "OriginAreaCode": "NDA",
         "Destination": "NEW DELHI",
         "DestinationAreaCode": "HKN",
         "PickUpDate": "04-03-2021",
         "PickUpTime": "1421",
         "ShipmentMode": "R",
         "ExpectedDeliveryDate": "30-12-0000",
         "Feature": "",
         "RefNo": "13441067419",
         "Prodcode": "A",
         "SubProductCode": "P",
         "Weight": "0",
         "DynamicExpectedDeliveryDate": "",
   "Scans": {
        "ScanDetail": [
        {
          "ScanType": "UD",
          "ScanGroupType": "S",
          "ScanCode": "001",
          "Scan": "SHIPMENT ARRIVED |",
          "ScanDate": "26-07-2017",
          "ScanTime": "1815",
          "ScannedLocationCode": "PTA",
          "ScannedLocation": "PATIALA",
          "ScannedLocationStateCode": "PJ",
          "StatusTimeZone": "IST",
          "Comments": "",
          "StatusLatitude": "",
          "StatusLongitude": "",
           "ScannedLocationCity": "",
            "SorryCardNumber": "",
             "ReachedDestinationLocation": "N",
             "SecureCode": ""

        },

        {
          "ScanType": "UD",
          "ScanGroupType": "S",
          "ScanCode": "001",
          "Scan": "SHIPMENT ARRIVED |",
          "ScanDate": "29-07-2017",
          "ScanTime": "0918",
          "ScannedLocationCode": "CMM",
          "ScannedLocation": "MADHYA MARG OFFICE",
          "ScannedLocationStateCode": "CD",
          "StatusTimeZone": "IST",
          "Comments": "",
          "StatusLatitude": "",
          "StatusLongitude": "",
           "ScannedLocationCity": "",
            "SorryCardNumber": "",

          "ReachedDestinationLocation": "N",
          "SecureCode": ""

    },
    {
      "ScanType": "UD",
      "ScanGroupType": "S",
      "ScanCode": "002",
      "Scan": "SHIPMENT OUT FOR DELIVERY |",
      "ScanDate": "29-07-2017",
      "ScanTime": "1140",
      "ScannedLocationCode": "CMM",
      "ScannedLocation": "MADHYA MARG OFFICE",
      "ScannedLocationStateCode": "CD",
      "StatusTimeZone": "IST",
      "Comments": "",
      "StatusLatitude": "",
      "StatusLongitude": "",
      "ScannedLocationCity": "",
      "SorryCardNumber": "",
        "ReachedDestinationLocation": "N",
        "SecureCode": ""

    },
    {
      "ScanType": "DL",
      "ScanGroupType": "T",
      "ScanCode": "000",
      "Scan": "SHIPMENT DELIVERED |",
      "ScanDate": "29-07-2017",
      "ScanTime": "1408",
      "ScannedLocationCode": "CMM",
      "ScannedLocation": "MADHYA MARG OFFICE",
      "ScannedLocationStateCode": "CD",
      "StatusTimeZone": "IST",
      "Comments": "",
      "StatusLatitude": "",
      "StatusLongitude": "",
      "ScannedLocationCity": "",
      "SorryCardNumber": "",
        "ReachedDestinationLocation": "N",
        "SecureCode": ""
    }
  ],
  "DeliveryDetails": {
   "ReceivedBy": "SUKHBIR KAUR",
   "Relation": "",
   "IDType": "",
   "IDNumber": "",
   "IDImage": "",
   "Signature": ""
  },
  "QCFailed": {
   "Type":"P",
   "Reason":"101,102,103",
   "Pictures":[{base 64}]
  },
  "Reweigh": [ ],

```
    "CallLogs": [ ],
    "PODDCImages":
      {"PODImage"":[{base 64}],
       "DCImage":[{base 64}],
       "Imagesequence":""
      }
    }
   }
  }
 ]
}
```

QC Master

QC Reason Code	Reason Description
101	Number of items not matching
102	Item used/ damaged or in bad condition
103	Accessories/ parts not available
104	Brandbox/ Invoice not available
105	Not the same product
106	IMEI Number/ Serial Number not matching
107	Return Reason not matching

Image Transmission codes

Status Type	Status Code	Description
T	POD	Pod Image [pod/dc Both , multiple Images can be pushed]
T	SIG	Signature image [ID Image and Signature Image to be pushed]
S	QC	RETURN PICKED [RVP QC images Success]

| T | QC | RETURN REJECTED [RVP QC images failure] |