# Lightweight System External Interface Protocol Document V1.0

# IntroductionIntroduction

## Purpose

This document serves as the standard interface documentation for integrating with the forklift dispatch system. It is designed to provide interface services for internal systems and support integration requirements. It also serves as the implementation basis for developers and the testing basis for software validation by testers.

## ScopeScope

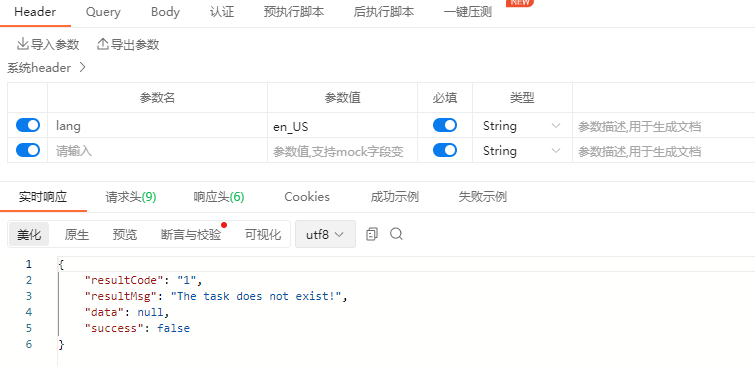
This document is the standard interface documentation for semi-automated integration with the forklift dispatch system, covering the interface services provided by external interfaces to the forklift dispatch system.

# Interface Format

## HTTP Interface

1. All HTTP interfaces provided by the system follow the RESTful interface format.
2. Data is transmitted in JSON format.
3. The request method is POST.
4. Parameters must be included in the requestBody.
5. Base path for interfaces: http://ip:port/name
6. Interface method names correspond to the URL values in Section 3 for specific interfaces.
7. Interface debugging path: http://ip:port/name
8. Internationalization: Add the parameter lang to the request header with values such as zh\_CN, en\_US, etc.





# Interface Response Description

1. The following is the template for interface return values:

|  |
| --- |
| Normal Return Value  {  "resultCode": 0,  "resultMsg": "Operation successful!",  "data": {}  } |
| Parameter Parsing Error (Check parameter format)  {  "timestamp": "2022-04-15 13:54:54",  "status": 400,  "error": "Bad Request",  "message": "",  "path": "......"  } |

1. A request is considered successful only when resultCode=0. Other values indicate failure:

resultCode=4: Task sending failed, forklift keyboard not locked!

resultCode=5: A task with this message ID already exists. Do not resend!

1. resultMsg provides the response message from the interface.
2. data is the data node returned by the interface.

## 3.1Task Module

### 3.1.1 Send Task

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/sendTask** |

|  |  |
| --- | --- |
| Parameters | {  "messageId": "31", // varchar(64) Message ID, ensures task uniqueness (each task corresponds to a unique messageId). Required.  "startSiteCode": "200", // int(10) Starting point code. Required.  "endSiteCode": "320", // int(10) Destination point code. Optional.  "deviceImei": "327221051", // int(10) Forklift IMEI. Required.  "customerId": "1023", // varchar(4) Enterprise ID, task ownership. Optional.  "startHandel": "1", // varchar(64) Fork action at start: 0: Disabled, 1: Lift, 2: Lower. Default 0. Optional.  "endHandel": "2", // varchar(64) Fork action at destination: 0: Disabled, 1: Lift, 2: Lower. Default 0. Optional.  "startStorageHeight": "0", // int(10) Starting storage height, default 0 mm. Optional.  "endStorageHeight": "0", // int(10) Destination storage height, default 0 mm. Optional.  "upDownHeight": "100", // int(10) Fork lifting height for picking/placing goods, default 100 mm. Optional.  "taskWayPoints": [ // Optional. Task waypoints. The point that needs to be passed between the starting and ending points  {  "siteCode": 200, // Waypoint code.  "siteHandel": "1", // Fork action: 0: Disabled, 1: Lift, 2: Lower. Default 0.  "storageHeight": 0 // Storage height, default 0 mm.  },  ...  ]  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": "31",  "success": true  } |

Notes:

messageId: Unique identifier for the task. Must change for each successfully executed task and cannot be reused.

startSiteCode: Starting point of the task. If only startSiteCode is provided and endSiteCode is null, the forklift only needs to reach this point. Use startHandel and startStorageHeight for picking goods (startHandel=1 for picking, startStorageHeight=0 for same-level picking; otherwise, it represents the height from the forklift level to the step level in mm).

endSiteCode: Destination point of the task. Use endHandel=2 for placing goods (endStorageHeight=0 for same-level placing; otherwise, it represents the height from the forklift level to the step level in mm).

deviceImei: IMEI of the forklift executing the task.

Example:

Forklift with IMEI=1 is at point 100 and needs to pick goods at point 500 and place them at point 600:

{

"messageId":"515151",

"startSiteCode":"500",

"endSiteCode":"600",

"deviceImei":"1",

"customerId":"1023",

"startHandel":"1",

"endHandel":"2",

"startStorageHeight":"0",

"endStorageHeight":"0",

"upDownHeight":"100"

}

### 3.1.2 Get Task Status

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/getTaskResult** |

|  |  |
| --- | --- |
| Parameters | {  "messageId": "31", // varchar(64) Message ID, ensures task uniqueness. Required.  "customerId": "1023" // varchar(4) Enterprise ID, task ownership. Optional.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": "2", // 1: Newly created, 2: In progress, 3: Completed, 4: Failed, 5: Sent, 6: Send failed, 7: Canceled.  "success": true  } |

### 3.1.3 Query Pick/Place Status

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/getPickPlaceState** |

|  |  |
| --- | --- |
| Parameters | {  "messageId": "31", // varchar(64) Message ID, ensures task uniqueness. Required.  "customerId": "1023" // varchar(4) Enterprise ID, task ownership. Optional.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": "2", // 0: No action, 1: Picked, 2: Placed.  "success": true  } |

### 3.1.4 Set Keyboard Task Lock

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/setKeyboardLock** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei": "31", // int(10) Forklift IMEI. Required.  "lockState": "1" // int(1) Lock status: 1: Locked (interface tasks allowed, app tasks disabled), 0: Unlocked (app tasks allowed, interface tasks disabled). Required.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.1.5 Set Task Status

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/setTask** |

|  |  |
| --- | --- |
| Parameters | {  "messageId": "31", // varchar(64) Message ID, ensures task uniqueness. Required.  "taskState": "1" // varchar(4) Task status: 1: Pause, 2: Start, 3: Cancel. Required.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.1.6 Cancel All Pending Tasks

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/cancelTask** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei": "31" // int(10) Forklift IMEI. Required.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.1.7 Clear all tasks, 2025-6-4 New addition

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/userTask/clearTask** |

|  |  |
| --- | --- |
| Parameters | {  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

## 3.2 Site Module

### 3.2.1 All Site Information

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/siteManage/getAllSite** |

|  |  |
| --- | --- |
| Parameters | {  } |
| Response | **{**  **"resultCode": "0",**  **"resultMsg": "Operation successful",**  **"data": [**  **{**  **"manageId": "341545457966780416", // varchar(64)**  **"siteManageId": 2100, // int(10) Site code.**  **"siteManageName": "Storage Location 1", // varchar(64) Site name.**  **"deviceImei": 241001043, // int(10)**  **"siteType": "3", // char(1) Site type: 1: Workshop, 2: Area, 3: Site.**  **"siteAttr": "9", // char(2) Site attribute: 1: Dock point (loading/unloading), 2: Rest point (P), 3: Charging point, 4: Normal point, 5: Open-loop point, 6: Elevator control point, 7: Elevator point, 8: Waiting point, 9: Storage location, 10: Passage door, 11: Storage column, 12: Outdoor point.**  **"siteX": 460, // int(10)**  **"siteY": 2607 // int(10)**  **},**  **...**  **],**  **"success": true**  **}** |

### 3.2.2 Get Site Information (Added on 25-1-16)

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/siteManage/getSiteInfo** |

|  |  |
| --- | --- |
| Parameters | {  "siteCode": "200" // int(10) Site ID. Required.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": {  "manageId": "403908082234691584",  "siteManageId": 9000, // Site ID.  "siteManageName": "K001", // Site name.  "deviceImei": 242001081, // Device IMEI.  "siteAttr": "9", // Site attribute: 1: Dock point (loading/unloading), 2: Rest point (P), 3: Charging point, 4: Normal point, 5: Open-loop point, 6: Elevator control point, 7: Elevator point, 8: Waiting point, 9: Storage location, 10: Passage door, 11: Storage column, 12: Outdoor point, 13: Alarm point.  "customerId": "1163"  },  "success": true  } |

## 3.3Device Module

### 3.3.1 Device List

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/device/getDeviceList** |

|  |  |
| --- | --- |
| Parameters | {  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [  {  "deviceImei": "507241005", // Device IMEI.  "deviceName": "Test 2", // Device name.  "flag": "FF", // Device status (refer to the flag status code table below).  "createdBy": "user",  "createdDate": "2024-05-10 10:46:06",  "updatedBy": null,  "updatedDate": null,  "isEnable": "0" // Enabled: 0: Enabled, 1: Disabled.  },  ...  ],  "success": true  } |

### 3.3.2 Initialize Location (Place the forklift at a point and initialize via interface) (Added on 24-9-20)

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/device/initLocation** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei": "31", // int(10) Forklift IMEI. Required.  "siteCode": "200" // int(10) Site location. Required.  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.3.3 Set WiFi Restart Threshold (Restart device WiFi when signal delay exceeds this value) (Added on 25-1-21)

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/device/setWifiRestartValue** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei":"31" int(10) **imei**  "wifiRestartValue":60 int(10)WiFi restart threshold is required (between 30-90, where 30 indicates the strongest WiFi signal and 90 indicates the weakest WiFi signal)  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.3.4 Set Forklift Parameters (Added on 25-3-12)

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/device/setDeviceParams** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei": "31", // int(10) Forklift IMEI. Required.  "palletWidth": 1500, // int(10) Set pallet width (800-3000 mm). Optional.  "noCargoHeight":200, int(10) Operating height without cargo is not required (height of fork when walking without pickup)  "liftHeight":200, int(10) Lifting height is not required (fork lifting height during pickup)  "haveCargoHeight":200, int(10) The operating height of the goods is not required (take the height of the fork when walking after arrival)  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.3.5 Terminate the task being executed by the forklift 25-5-28

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/device/terminateTask** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei": "31", // int(10) Forklift IMEI. Required  } |
| Response | {  "resultCode": "0",  "resultMsg": "Operation successful",  "data": [],  "success": true  } |

### 3.3.100 Device Status (Added WiFi signal strength on 25-1-20)

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/device/getDeviceInfo** |

|  |  |
| --- | --- |
| Parameters | {  "deviceImei": "31" // int(10) Forklift IMEI. Required.  } |
| Response | **{**  **"resultCode": "0",**  **"resultMsg": "Operation successful",**  **"data": {**  **"deviceImei": 701231031, // Device IMEI.**  **"deviceName": "701231031", // Device name.**  **"model": 2, // Mode: 0: Idle, 1: Learning, 2: Task, 3: Configuration.**  **"flag": "FF", // Device status (refer to the flag status code table below).**  **"batteryLevel": 76, // Battery level.**  **"taskNumber": 0, // Current task sequence number.**  **"userTaskId": 43797, // Task ID.**  **"endSiteCode": 0, // Destination point of the forklift's current route (0: No location).**  **"startSiteCode": 0, // Starting point of the forklift's current route (if same as endSiteCode, the forklift is at a point; otherwise, it is on a line).**  **"forkStatus": 0, // Fork status: 0: No goods, 1: Has goods.**  **"createdDate": "2023-09-11 09:40:20", // Creation time.**  **"updatedDate": "2023-09-13 08:39:42", // Modification time.**  **"lockState": 1, // Keyboard lock status: 1: Locked (interface tasks allowed, keyboard tasks disabled), 0: Unlocked (keyboard tasks allowed, interface tasks disabled).**  **"steps": 66, // Current step number on the route (used with startSiteCode and endSiteCode).**  **"buttonNumber": 10, // Current button task sequence number being executed.**  **"buttonArea": 22, // Current triggered button area sequence number.**  **"wifiStrength": 100 // WiFi signal strength.**  **},**  **"success": true**  **}**  **When data is null, it means that the device is not connected to the server** |

|  |  |
| --- | --- |
| **flag** | Status Code Interpretation |
| **00** | Idle Mode |
| **01** | Authenticating |
| **02** | Permission Expired |
| **03** | Location Not Recognized |
| **04** | Update Mode |
| **05** | Camera Initializing |
| **06** | Main Control Box Malfunction |
| **10** | Task Dispatch Failed, Redispatching |
| **11** | Main Control Box Malfunction |
| **12** | Main Control Box Malfunction |
| **13** | Standby |
| **14** | Standby |
| **15** | Main Control Box Malfunction |
| **16** | Main Control Box Malfunction |
| **17** | Main Control Box Malfunction |
| **18** | Gyroscope Calibrating |
| **19** | Standby |
| **20** | Calibration Idle |
| **21** | Calibrating FPGA and Angle |
| **22** | Calibrating CAN Value and Angle |
| **23** | Calibrating Reverse Compensation Angle |
| **24** | Calibrating Wire Encoder |
| **25** | Calibrating Charging |
| **26** | Calibrating Music Playback |
| **27** | Calibrating Handle Voltage and Angle |
| **28** | Vehicle Scaling Calculating |
| **29** | Vehicle Scaling Failed |
| **40** | Standby |
| **41** | Learning Idle |
| **42** | Manual Learning |
| **43** | Main Path Self-Learning |
| **44** | Reverse Self-Learning |
| **45** | Reset Self-Learning |
| **46** | Exit Self-Learning |
| **47** | Movement Completed |
| **48** | Self-Learning Emergency Stop |
| **49** | Learning Pixel Anomaly |
| **50** | Self-Learning Manual Trigger |
| **51** | Data Processing |
|  |  |
| **53** | Main Control Box Malfunction |
| **54** | Data Processing Pixel Anomaly |
| **55** | SD Card Malfunction |
| **56** | Insufficient Reflective Strips |
| **57** | Incorrect Learning Direction |
| **58** | Obstacle Avoidance Failed |
| **59** | Learning Speed Too Fast |
| **60** | Buffer Overflow |
| **61** | Data Anomaly |
| **62** | Overlap Operation Anomaly |
| **63** | Radar Navigation Manual Trigger |
| **64** | Radar Navigation Emergency Stop |
| **65** | Radar Learning Completed |
| **66** | Radar Navigation Returning |
| **67** | Radar Navigation Adjusting |
| **68** | Radar Navigation Adjustment Completed |
| **69** | Radar Navigation Communication Timeout |
| **70** | Radar Obstacle Avoidance Learning |
| **71** | Insufficient Reflective Strips |
| **72** | Obstacle Avoidance Failed |
| **73** | Insufficient Reflective Strips |
| **74** | Insufficient Reflective Strips |
| **75** | Curtis Timeout |
| **76** | Coordinate Calculation Anomaly |
| **77** | Searching for Position (Starting Point) |
| **78** | Searching for Position (On Path) |
| **79** | Searching for Position (Off Path) |
| **80** | Cargo Switch Triggered |
| **81** | Traffic Control Active |
| **82** | Route Planning Unavailable |
| **83** | Task Idle |
| **84** | Task Resuming |
| **85** | Task Executing |
| **86** | Position Lost |
| **87** | Task Paused |
| **88** | Route Search Failed |
| **89** | Fork Tip Photoelectric Triggered |
| **8A** | Safety Edge Triggered |
| **8B** | Manual Knob Triggered |
| **8C** | Emergency Stop Active |
| **8D** | Lower Radar Left Zone Triggered |
| **8E** | Charging |
| **8F** | Arrived at Docking Point |
| **90** | Undefined |
| **91** | Abnormal Vehicle Speed |
| **92** | Clearing Data |
| **93** | Wheel Slippage |
| **94** | Steering Wheel Angle Error |
| **95** | No Task Bound to This Serial Number |
| **96** | Excessive Deviation |
| **97** | Main Control Box Malfunction |
| **98** | Task Executing (Off Path) |
| **99** | Expansion Board Malfunction |
| **9A** | Compensation Alarm 1 |
| **9B** | Compensation Alarm 2 |
| **9C** | Compensation Alarm 3 |
| **9D** | Compensation Alarm 4 |
| **9F** | Curtis Malfunction |
| **A0** | Lift Overlimit |
| **A1** | Rear Radar Malfunction |
| **A2** | Circle Calculation Anomaly |
| **A3** | File Read Failed |
| **A4** | SD Card Malfunction |
| **A5** | Main Control Box Malfunction |
| **A6** | Data File Read Anomaly |
| **A7** | Curtis Timeout |
| **A8** | Abnormal Vehicle Speed |
| **A9** | Expansion Board Communication Timeout |
| **AA** | Standby |
| **AB** | Route File Anomaly |
| **AC** | Standby |
| **AD** | Charging Anomaly |
| **AE** | Compensation Anomaly 5 |
| **AF** | Pallet Stacking Anomaly |
| **B0** | Standby |
| **B2** | Standby |
| **B3** | Standby |
| **B4** | Large-Scale Search Failed |
| **B5** | Waiting for Task Start |
| **B6** | Lower Radar Malfunction |
| **B7** | Waiting for Lower Radar Response |
| **B8** | Lower Radar Communication Timeout |
| **B9** | Lower Radar Not Detected |
| **BA** | Upper Radar Malfunction |
| **BB** | Waiting for Upper Radar Response |
| **BC** | Upper Radar Communication Timeout |
| **BD** | Upper Radar Left Zone Triggered |
| **BE** | Upper Radar Middle Zone Triggered |
| **BF** | Upper Radar Right Zone Triggered |
| **C0** | Fork Requesting |
| **C1** | Standby |
| **C2** | Standby |
| **C3** | Capturing Reference Image |
| **C4** | Reference Image Capture Completed |
| **C5** | Capturing Second Image |
| **C6** | Second Image Capture Completed |
| **C7** | Standby |
| **C8** | Standby |
| **C9** | Fork Rising |
| **CA** | Fork Descending |
| **CB** | Fork Action Completed |
| **CC** | Standby |
| **CD** | Standby |
| **CE** | Standby |
| **CF** | Excessive Connection Error |
| **D1** | Left Fork Tip Radar Malfunction |
| **D2** | Fork Cargo Detection Started |
| **D3** | Fork Cargo Detection Processing |
| **D4** | Fork Cargo Detection Completed |
| **D5** | Right Fork Tip Radar Malfunction |
| **D6** | Gyroscope Communication Timeout |
| **D7** | Rear Expansion Board Communication Timeout |
| **D8** | Gyroscope Malfunction |
| **D9** | Front Expansion Board Communication Timeout Recovered |
| **DA** | Rear Expansion Board Communication Timeout Recovered |
| **DB** | Gyroscope Board Communication Timeout Recovered |
| **DC** | Left Fork Tip Board Communication Timeout Recovered |
| **DD** | Right Fork Tip Board Communication Timeout Recovered |
| **DE** | Non-Loop Task Endpoint |
| **DF** | Main Loop Function Malfunction |
| **E5** | Task File Read Anomaly |
| **F1** | Communication Interrupted |
| **F2** | Radar Deceleration |
| **F3** | Right Radar No Data |
| **F4** | Right Radar Malfunction |
| **F5** | Waiting for Right Radar Response |
| **F6** | Right Radar Timeout |
| **F7** | Main Control Box Malfunction |
| **F8** | SD Card Malfunction |
| **F9** | Data Processing (Self-Consistent) |
| **FF** | Offline |
| **E1** | Lower Radar Middle Zone Triggered |
| **E2** | Lower Radar Right Zone Triggered |
| **E3** | Upper Radar Not Detected |
| **E4** | Rear Radar Triggered |
| **E5** | Task File Read Anomaly |
| **E6** | Data Processing (Asynchronous) |
| **E7** | E7 |
| **ED** | FPGA Self-Test Error |
| **EE** | Vehicle Unauthorized |
| **EF** | Gyroscope Temperature Stabilizing |
| **FA** | Gyroscope Calibrating |
| **FB** | Wire Encoder Timeout |
| **100** | Requesting Elevator Entry |
| **101** | Elevator Entry Allowed |
| **102** | Detecting Elevator Door |
| **103** | Door Opened |
| **104** | Elevator Door Not Opened |
| **105** | Detecting Door Not Opened |
| **106** | Entering Elevator |
| **107** | Exiting Elevator |
| **108** | Requesting Passage Door |
| **109** | Passage Door Entry Allowed |
| **10A** | Exiting Passage Door |
| **10B** | Lower (Left) Radar Anomaly Recovered |
| **10C** | Upper Radar Anomaly Recovered |
| **10D** | Rear Radar Anomaly Recovered |
| **10E** | Lower (Right) Radar Anomaly Recovered |
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## 3.4Route Module

### 3.4.1 All Route Information

|  |  |
| --- | --- |
| url | [**http://ip:port/ygvcs/service/**](http://ip:port/FCS/service/)**web/forkliftLine/getAllForkliftLine** |

|  |  |
| --- | --- |
| Parameters |  |
| Response | **{**  **"resultCode": "0",**  **"resultMsg": "Operation successful",**  **"data": [**  **{**  **"forkliftLineId": 13358, // Route ID.**  **"lineName": "1200->800", // Route name.**  **"startSiteName": "Starting Point", // Starting site name.**  **"startSiteCode": 1200, // Starting site code.**  **"endSiteName": "Storage Column 1", // Destination site name.**  **"endSiteCode": 800, // Destination site code.**  **"deviceImei": 241001018, // Device that learned the route.**  **"stepNumber": 165, // Total steps in the route.**  **"isBackingUp": 0, // 0: Forward single direction, 1: Reverse single direction, 2: Bidirectional, 3: Not used for path planning.**  **"createdBy": "system",**  **"createdDate": "2024-03-17 10:35:30",**  **"updatedBy": "qlmz7q",**  **"updatedDate": "2024-03-17 10:35:30",**  **"startSiteX": 0,**  **"startSiteY": 0,**  **"endSiteX": 0,**  **"endSiteY": 0,**  **"lineAttr": "0", // Route attribute: 0: Main route, 1: Branch route learned along the main route, 2: Reverse branch route, 3: Forward outbound branch route, 4: Manually learned branch route.**  **"returnLineId": 3, // Main route ID for vehicle return.**  **"isRadar": "0", // Radar configured: 0: No, 1: Yes.**  **"lineItem": "0", // Route category: 0: Indoor route, 1: Outdoor route, 2: Indoor inertial navigation.**  **"isCorrectsLine": "0", // Straight route correction: 0: No, 1: Yes.**  **"customerId": "1097", // Enterprise ID.**  **"floor": 0 // Floor number.**  **},**  **...**  **],**  **"success": true**  **}** |