COSCO Syncon Hub API Specification for Reefer Spot Rate

Update Logs

v1.1.0 (2022-07-09)

1. Ⓤ Added isSupportInsurance in response for spot Rate details query interface.Details

v1.0.0 (2021-08-30)

1. Ⓐ Added the API Reefer spot Rate interface.
2. Ⓐ Added the API Reefer spot Rate details query interface.
3. Ⓐ Added the API Reefer Intermodal Service Query Interface.
4. Ⓐ Added the API Reefer Surcharge Query Interface.

Http Header

HTTP header information description

HTTP Header	Type	Required	Description	Remarks
X-Consumer-Forwarder-ID	String	no	Forwarder company sapId	

- X-Consumer-Forwarder-ID

```
# If you want to submit an order/booking for your subsidiary,add this header
to the request.The value is sapid of the subsidiary

X-Consumer-Forwarder-ID: 1234567890
```

Spot Rate Query Interface

1. Information

- **Path**: /service/synconhub/product/reefer/search
- **Method**: POST

2. Request parameters

Name	Type	Required	Description	Remarks
cargoCategory	String	yes	REEFER / NOR	REEFER / NOR (non-reefer)
startDate	ISODate	yes	the start date of sailing date scope(GMT)	
endDate	ISODate	no	the end of Sailing date scope(GMT)	
porCityId	String	yes	por city id	
fndCityId	String	yes	fnd city id	
page	Integer	yes	page size	**default:**1，**minimum:**1
size	Integer	yes	record size	**default:**20，**range:**[1, 50]

3. Request sample

```
{
  "cargoCategory": "REEFER", // "cargoCategory": "NOR"
  "startDate": "2021-06-01T00:00:00.000Z",
  "endDate": "2021-07-30T00:00:00.000Z",
  "fndCityId": "738872886233842",
  "porCityId": "738872886232873",
  "page": 1,
  "size": 20
}
```

4. Response parameters

Name	Description
code	status code
message	detail message
data	pagination to return product information that meets the query conditions. (sorted by ETD by default)

5. Response sample

```
{
    "code": 0,
    "message": "",
    "data": {
        "content": [
            {
                "id": "8a80cb817321ad030173221c880101d2",
                "cargoCategory": "REEFER",
                "cargoType": "FROZEN",
                "tradeLaneCode": "AEU",
                "serviceCode": "AEM5",
                "tradeArea": "ETD",
                "vesselName": "COSCO YANTIAN",
                "voyageNo": "020",
                "direction": "W",
                "porFacilityCode": null,
                "porFacilityName": null,
                "porFacilityNameCn": null,
                "fndFacilityName": null,
                "fndFacilityNameCn": null,
                "fndFacilityCode": null,
                "haulageType": "CY-CY",
                "isFmcProduct": false,
                "estimatedTransitTimeInDays": 30,
                "effectiveStartDate": "2021-07-05T00:00:00.000Z",
                "effectiveEndDate": "2021-12-23T23:59:59.000Z",
                "eta": "2021-09-07 00:00",
                "etd": "2021-08-04 00:00",
                "inventory": 717,
                "polTsMode": null, // pol transit mode
                "podTsMode": null, // pod transit mode
```

```
                    "porCity": { // por city info, for the specific structure, please
refer to 'City information query interface'
                        "id": "738872886233044",
                        "unlocode": "CNSHE",
                        "cityName": "Shekou",
                        "cntyName": "Shenzhen",
                        "stateName": "Guangdong",
                        "stateCode": "GD",
                        "ctryRegionName": "China",
                        "ctryRegionCode": "CN",
                        "cityFullNameEn": "Shekou",
                        "cityFullNameCn": "蛇口"
                    },
                    "fndCity": {
                        "id": "738872886271836",
                        "unlocode": "ZADUR",
                        "cityName": "Durban",
                        "cntyName": null,
                        "stateName": "KwaZulu-Natal",
                        "stateCode": null,
                        "ctryRegionName": "South Africa",
                        "ctryRegionCode": "ZA",
                        "cityFullNameEn": "Durban",
                        "cityFullNameCn": "德班"
                    },
                    "polPort": {
                        "id": "349645770723389",
                        "portName": "Shekou",
                        "portCode": "SHK",
                        "portFullNameEn": "Shekou",
                        "portFullNameCn": "蛇口",
                        "city": {
                            "id": "738872886233044",
                            "unlocode": "CNSHE",
                            "cityName": "Shekou",
                            "cntyName": "Shenzhen",
                            "stateName": "Guangdong",
                            "stateCode": "GD",
                            "ctryRegionName": "China",
                            "ctryRegionCode": "CN",
                            "cityFullNameEn": "Shekou",
                            "cityFullNameCn": "蛇口"
                        }
                    },
                    "podPort": {
                        "id": "349647918206992",
                        "portName": "Durban",
                        "portCode": "DUR",
                        "portFullNameEn": "Durban",
                        "portFullNameCn": "Durban",
                        "city": {
                            "id": "738872886271836",
                            "unlocode": "ZADUR",
                            "cityName": "Durban",
                            "cntyName": null,
                            "stateName": "KwaZulu-Natal",
                            "stateCode": null,
                            "ctryRegionName": "South Africa",
```

```json
                    "ctryRegionCode": "ZA",
                    "cityFullNameEn": "Durban",
                    "cityFullNameCn": "德班"
                }
            },
            "firstPolPort": {
                "id": "349645770723389",
                "portName": "Shekou",
                "portCode": "SHK",
                "portFullNameEn": "Shekou",
                "portFullNameCn": "蛇口",
                "city": {
                    "id": "738872886233044",
                    "unlocode": "CNSHE",
                    "cityName": "Shekou",
                    "cntyName": "Shenzhen",
                    "stateName": "Guangdong",
                    "stateCode": "GD",
                    "ctryRegionName": "China",
                    "ctryRegionCode": "CN",
                    "cityFullNameEn": "Shekou",
                    "cityFullNameCn": "蛇口"
                }
            },
            "lastPodPort": {
                "id": "349647918206992",
                "portName": "Durban",
                "portCode": "DUR",
                "portFullNameEn": "Durban",
                "portFullNameCn": "Durban",
                "city": {
                    "id": "738872886271836",
                    "unlocode": "ZADUR",
                    "cityName": "Durban",
                    "cntyName": null,
                    "stateName": "KwaZulu-Natal",
                    "stateCode": null,
                    "ctryRegionName": "South Africa",
                    "ctryRegionCode": "ZA",
                    "cityFullNameEn": "Durban",
                    "cityFullNameCn": "德班"
                }
            },
            "scheduleData": {
                "origin": {
                    "id": "738872886233044",
                    "unlocode": "CNSHE",
                    "cityName": "Shekou",
                    "cntyName": "Shenzhen",
                    "stateName": "Guangdong",
                    "stateCode": "GD",
                    "ctryRegionName": "China",
                    "ctryRegionCode": "CN",
                    "cityFullNameEn": "Shekou",
                    "cityFullNameCn": "蛇口"
                },
                "destination": {
                    "id": "738872886271836",
```

```json
                    "unlocode": "ZADUR",
                    "cityName": "Durban",
                    "cntyName": null,
                    "stateName": "KwaZulu-Natal",
                    "stateCode": null,
                    "ctryRegionName": "South Africa",
                    "ctryRegionCode": "ZA",
                    "cityFullNameEn": "Durban",
                    "cityFullNameCn": "德班"
                },
                "porFacilityCode": null,
                "fndFacilityCode": null,
                "legs": [
                    {
                        "carrier": null,
                        "service": {
                            "serviceCode": "AEM5",
                            "serviceId": null
                        },
                        "vessel": {
                            "vesselName": "COSCO YANTIAN",
                            "vesselId": null,
                            "vesselCode": null
                        },
                        "voyageCode": null,
                        "internalVoyageNumber": "020",
                        "externalVoyageNumber": "020W",
                        "pol": {
                            "port": {
                                "id": "349645770723389",
                                "portName": "Shekou",
                                "portCode": "SHK",
                                "portFullNameEn": "Shekou",
                                "portFullNameCn": "蛇口",
                                "city": null
                            },
                            "etd": "2021-08-04 00:00",
                            "atd": null,
                            "eta": null,
                            "ata": null,
                            "facilityCode": null
                        },
                        "pod": {
                            "port": {
                                "id": "349647918206992",
                                "portName": "Durban",
                                "portCode": "DUR",
                                "portFullNameEn": "Durban",
                                "portFullNameCn": "Durban",
                                "city": null
                            },
                            "etd": null,
                            "atd": null,
                            "eta": "2021-09-07 00:00",
                            "ata": null,
                            "facilityCode": null
                        },
                        "legSequence": 0,
```

```json
                        "direction": "W",
                        "transportMode": null
                    }
                ],
                "cutOffLocalDate": null,
                "estimatedTransitTimeInDays": 30,
                "etaAtFnd": "2021-09-07 00:00",
                "etdAtPor": "2021-08-04 00:00",
                "serviceCode": "AEM5",
                "vesselName": "COSCO YANTIAN",
                "direction": "W",
                "voyageNo": "020"
            },
            "routeProductPricingList": [
                {
                    "cntrType": "20RF",
                    "price": 2.00,
                    "tradePrice": 0.50, //tradePrice = price - promotions -
discounts
                    "currency": "USD"
                }
            ],
            //  If ocean charge switch to collect payment, would need add
collect payment charge
            "collectExtraCharges": [
                {
                    "cntrType": "20RF",
                    "price": 20,
                    "currency": "USD"
                },
                {
                    "cntrType": "40RQ",
                    "price": 40,
                    "currency": "USD"
                }
            ],
            "promotions": {
                "detail": [
                    {
                        "promotionType": "OFF",
                        "remnantInventory": 40,
                        "summary": "订单下箱型20RF、40RQ每UNIT立减1USD。",
                        "priority": 1
                    }
                ]
            },
            "companyDiscountsInfoDTO": []
        }
    ],
    "number": 1,
    "size": 20,
    "totalPages": 1,
    "totalElements": 1,
    "first": true, // is first page
    "last": true, // is last page
    "empty": false
    }
}
```

6. Error sample

```
{
    "code": 20000,
    "message": "cannot identify the user, please contact support for help"
}
```

Intermodal Service Query Interface

1.Information

- **Path**: /service/synconhub/common/intermodalService/reefer/{productId}
- **Method**: GET

2. Path parameters

Name	Type	Required	Description
productId	String	yes	product id

3. Request sample

```
GET
/service/synconhub/common/intermodalService/reefer/8a5e11157351b2df01735562622a0
000
```

4. Response parameters

Name	Description
code	status code
message	detail message
data	response data

5. Response sample

```
{
    "code": 0,
    "message": "",
    "data": {
        "loadingServices": [    // loading port list
            {
                "transshipmentModel": "TRUCK+RAIL", // Transport Way eg:
['FEEDER','RAIL','TRUCK','BARGE','TRUCK+RAIL']
                "cityUUID": "738872886232847",
                "cityFullName": "青岛",
                "cityFullNameEn": "Qingdao",
                "ctryCode": "CN",
                "facilityCode": null,
                "facilityName": null,
```

```
                "bound": "O", // bound type,loading->O , discharge->I
                "transportTerms": "CY", // Traffic Mode
                "bargeDay": 3,
                "transitDay": 4,
                "isFollowOceanFee": true, // payment terms follow ocean fee
payment terms
                "containerInfoDTOList": [ // Supported cntr type and weight
config
                    {
                        "cntrSizeType": "20RF",
                        "cntrPrice": 100,
                        "currencyType": "USD",
                        "paymentTerms": "P",
                        "minWeight": null,
                        "maxWeight": null,
                        "weightUnit": null
                    },
                    {
                        "cntrSizeType": "20RF",
                        "cntrPrice": 150,
                        "currencyType": "USD",
                        "paymentTerms": "C",
                        "minWeight": null,
                        "maxWeight": null,
                        "weightUnit": null
                    },
                    {
                        "cntrSizeType": "40RQ",
                        "cntrPrice": 300,
                        "currencyType": "USD",
                        "paymentTerms": "P",
                        "minWeight": null,
                        "maxWeight": null,
                        "weightUnit": null
                    },
                    {
                        "cntrSizeType": "40RQ",
                        "cntrPrice": 320,
                        "currencyType": "USD",
                        "paymentTerms": "C",
                        "minWeight": null,
                        "maxWeight": null,
                        "weightUnit": null
                    }
                ],
                "intermodalServiceNo": "8a5e112478d41b380178d951babe0032" //
intermodal ServiceNo
            },
            {
                "transshipmentModel": "RAIL",
                "cityUUID": "738872886232873",
                "cityFullName": "上海",
                "cityFullNameEn": "Shanghai",
                "ctryCode": "CN",
                "facilityCode": "NGB05",
                "facilityName": "Ningbo Yuandong Terminals Limited",
                "bound": "O",
                "transportTerms": "CY",
```

```json
            "bargeDay": 2,
            "transitDay": 3,
            "isFollowOceanFee": false, // payment terms follow ocean fee
payment terms
            "containerInfoDTOList": [
                {
                    "cntrSizeType": "20RF",
                    "cntrPrice": 100,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": null,
                    "maxWeight": null,
                    "weightUnit": null
                },
                {
                    "cntrSizeType": "40RQ",
                    "cntrPrice": 200,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": null,
                    "maxWeight": null,
                    "weightUnit": null
                },
                {
                    "cntrSizeType": "40RQ",
                    "cntrPrice": 225,
                    "currencyType": "USD",
                    "paymentTerms": "C",
                    "minWeight": null,
                    "maxWeight": null,
                    "weightUnit": null
                },
                            {
                    "cntrSizeType": "20RF",
                    "cntrPrice": 125,
                    "currencyType": "USD",
                    "paymentTerms": "C",
                    "minWeight": null,
                    "maxWeight": null,
                    "weightUnit": null
                }
            ],
            "intermodalServiceNo": "8a5e112478d41b380178d946dac1001c"
        },
        {
            "transshipmentModel": "TRUCK",
            "cityUUID": "738872886232847",
            "cityFullName": "青岛",
            "cityFullNameEn": "Qingdao",
            "ctryCode": "CN",
            "facilityCode": null,
            "facilityName": null,
            "bound": "O",
            "transportTerms": "CY",
            "bargeDay": 2,
            "transitDay": 4,
            "isFollowOceanFee": false, // payment terms follow ocean fee
payment terms
```

```json
            "containerInfoDTOList": [
                // If cargo weight information is configured,The same cntr
type will have multiple data
                {
                    "cntrSizeType": "20RF",
                    "cntrPrice": 100,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": 0,  // min cargo weight
                    "maxWeight": 20, // max cargo weight
                    "weightUnit": "TON" // weight unit eg: "TON"
                    // If the weight of the cargo is between 0-20 tons, the
loading service fee is 100 USD
                },
                {
                    "cntrSizeType": "20RF",
                    "cntrPrice": 150,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": 20,
                    "maxWeight": 40,
                    "weightUnit": "TON"
                    // If the weight of the cargo is between 20-40 tons, the
loading service fee is 150 USD
                },
                {
                    "cntrSizeType": "20RF",
                    "cntrPrice": 200,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": 40,
                    "maxWeight": null,
                    "weightUnit": "TON"
                    // If the weight of the cargo is more than 40 tons, the
loading service fee is 100 USD
                },
                {
                    "cntrSizeType": "40RQ",
                    "cntrPrice": 300,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": null,
                    "maxWeight": null,
                    "weightUnit": "TON"
                },
                {
                    "cntrSizeType": "40RQ",
                    "cntrPrice": 300,
                    "currencyType": "USD",
                    "paymentTerms": "P",
                    "minWeight": null,
                    "maxWeight": null,
                    "weightUnit": "TON"
                }
            ],
            "intermodalServiceNo": "8a5e112478d41b380178d9516714002b"
        }
    ],
```

```json
        "dischargeServices": [  // discharge port list
            {
                "transshipmentModel": "BARGE",
                "cityUUID": "738874496843873",
                "cityFullName": "Gwadar",
                "cityFullNameEn": "Gwadar",
                "ctryCode": "PK",
                "facilityCode": null,
                "facilityName": null,
                "bound": "I",
                "transportTerms": "FOR",
                "bargeDay": 19,
                "transitDay": 5,
                "isFollowOceanFee": false, // payment terms follow ocean fee
payment terms
                "containerInfoDTOList": [
                    {
                        "cntrSizeType": "20RF",
                        "cntrPrice": 300,
                        "currencyType": "USD",
                        "paymentTerms": "P",
                        "minWeight": null,
                        "maxWeight": null,
                        "weightUnit": null
                    },
                    {
                        "cntrSizeType": "40RQ",
                        "cntrPrice": 400,
                        "currencyType": "USD",
                        "paymentTerms": "P",
                        "minWeight": null,
                        "maxWeight": null,
                        "weightUnit": null
                    }
                ],
                "intermodalServiceNo": "8a5e112478d41b380178d94e5a4e0026"
            }
        ]
    }
}
```

6. Error sample

```json
{
    "code": 20002,
    "message": "The product cannot be found"
}
```

```json
{
    "code": 20059,
    "message": "Wrong bound type of intermodal service"
}
```

```
{
    "code": 20060,
    "message": "The intermodal service does not exist"
}
```

Spot Rate Details Query Interface

1. Information

- **Path**: /service/synconhub/product/reefer/{productId}
- **Method**: GET

2. Path parameters

Name	Type	Required	Description
productId	String	yes	product id

3. Query parameters

Name	Type	Required	Description
loadingServiceNo	String	no	intermodalServiceNo from intermodal service query results. Get the spot rate details with loading service
dischargeServiceNo	String	no	intermodalServiceNo from intermodal service query results. Get the spot rate details with discharge service

4. Request sample

```
GET /service/synconhub/product/reefer/8a5e11157351b2df01735562622a0000
```

```
GET /service/synconhub/product/reefer/8a5e11157351b2df01735562622a0000?
loadingServiceNo=8a5e112478d41b380178d4551a33000a
```

```
GET /service/synconhub/product/reefer/8a5e11157351b2df01735562622a0000?
loadingServiceNo=8a5e112478d41b380178d4551a33000a&dischargeServiceNo=8a5e112478c
4eed60178c51cca9f0001
```

5. Response parameters

Name	Description
code	status code
message	detail message
data	product detail info

6. Response sample

```
{
    "code": 0,
    "message": "",
    "data": {
        "id": "8a5e11157351b2df01735562622a0000",
        "cargoCategory": "REEFER",
        "cargoType": "FROZEN",
        "tradeLaneCode": "AEU",
        "serviceCode": "AEU2",
        "tradeArea": "ETD",
        "vesselName": "APL VANDA",
        "voyageNo": "022",
        "direction": "W",
        "porFacilityCode": "SHA08",
        "porFacilityName": "Shanghai Shengdong (I), Yangshan",
        "porFacilityNameCn": null,
        "fndFacilityName": "Eurogate Terminal",
        "fndFacilityNameCn": null,
        "fndFacilityCode": "HAM02",
        "haulageType": "CY-CY",
        "isFmcProduct": false,
        "estimatedTransitTimeInDays": 30,
        "effectiveStartDate": "2021-07-05T00:00:00.000Z",
        "effectiveEndDate": "2021-12-23T23:59:59.000Z",
        "eta": "2021-09-16 00:00",
        "etd": "2021-08-12 00:00",
        "inventory": 396,
        "isSupportInsurance": true,  // Whether to support insurance
        "polTsMode": null, // pol transit mode
        "podTsMode": null, // pod transit mode
        "porCity": {  // por city info, for the specific structure, please refer
to 'City information query interface'
            "id": "738872886232873",
            "unlocode": "CNSHA",
            "cityName": "Shanghai",
            "cntyName": "Shanghai",
            "stateName": "Shanghai",
            "stateCode": "SH",
            "ctryRegionName": "China",
            "ctryRegionCode": "CN",
            "cityFullNameEn": "Shanghai",
            "cityFullNameCn": "上海"
        },
        "fndCity": {
            "id": "738872886254648",
            "unlocode": "DEHAM",
            "cityName": "Hamburg",
```

```
            "cntyName": null,
            "stateName": "Hamburg",
            "stateCode": "HH",
            "ctryRegionName": "Germany",
            "ctryRegionCode": "DE",
            "cityFullNameEn": "Hamburg",
            "cityFullNameCn": "汉堡"
        },
        "polPort": {
            "id": "349657045012458",
            "portName": "Shanghai",
            "portCode": "SHA",
            "portFullNameEn": "Shanghai",
            "portFullNameCn": "上海",
            "city": {
                "id": "738872886232873",
                "unlocode": "CNSHA",
                "cityName": "Shanghai",
                "cntyName": "Shanghai",
                "stateName": "Shanghai",
                "stateCode": "SH",
                "ctryRegionName": "China",
                "ctryRegionCode": "CN",
                "cityFullNameEn": "Shanghai",
                "cityFullNameCn": "上海"
            }
        },
        "podPort": {
            "id": "349645770723600",
            "portName": "Hamburg",
            "portCode": "HAM",
            "portFullNameEn": "Hamburg",
            "portFullNameCn": "Hamburg",
            "city": {
                "id": "738872886254648",
                "unlocode": "DEHAM",
                "cityName": "Hamburg",
                "cntyName": null,
                "stateName": "Hamburg",
                "stateCode": "HH",
                "ctryRegionName": "Germany",
                "ctryRegionCode": "DE",
                "cityFullNameEn": "Hamburg",
                "cityFullNameCn": "汉堡"
            }
        },
        "firstPolPort": {
            "id": "349657045012458",
            "portName": "Shanghai",
            "portCode": "SHA",
            "portFullNameEn": "Shanghai",
            "portFullNameCn": "上海",
            "city": {
                "id": "738872886232873",
                "unlocode": "CNSHA",
                "cityName": "Shanghai",
                "cntyName": "Shanghai",
                "stateName": "Shanghai",
```

```
                    "stateCode": "SH",
                    "ctryRegionName": "China",
                    "ctryRegionCode": "CN",
                    "cityFullNameEn": "Shanghai",
                    "cityFullNameCn": "上海"
                }
            },
            "lastPodPort": {
                "id": "349645770723600",
                "portName": "Hamburg",
                "portCode": "HAM",
                "portFullNameEn": "Hamburg",
                "portFullNameCn": "Hamburg",
                "city": {
                    "id": "738872886254648",
                    "unlocode": "DEHAM",
                    "cityName": "Hamburg",
                    "cntyName": null,
                    "stateName": "Hamburg",
                    "stateCode": "HH",
                    "ctryRegionName": "Germany",
                    "ctryRegionCode": "DE",
                    "cityFullNameEn": "Hamburg",
                    "cityFullNameCn": "汉堡"
                }
            },
            "scheduleData": {
                "origin": {
                    "id": "738872886232873",
                    "unlocode": "CNSHA",
                    "cityName": "Shanghai",
                    "cntyName": "Shanghai",
                    "stateName": "Shanghai",
                    "stateCode": "SH",
                    "ctryRegionName": "China",
                    "ctryRegionCode": "CN",
                    "cityFullNameEn": "Shanghai",
                    "cityFullNameCn": "上海"
                },
                "destination": {
                    "id": "738872886254648",
                    "unlocode": "DEHAM",
                    "cityName": "Hamburg",
                    "cntyName": null,
                    "stateName": "Hamburg",
                    "stateCode": "HH",
                    "ctryRegionName": "Germany",
                    "ctryRegionCode": "DE",
                    "cityFullNameEn": "Hamburg",
                    "cityFullNameCn": "汉堡"
                },
                "porFacilityCode": "SHA08",
                "fndFacilityCode": "HAM02",
                "legs": [
                    {
                        "carrier": null,
                        "service": {
                            "serviceCode": "AEU2",
```

```json
                    "serviceId": null
                },
                "vessel": {
                    "vesselName": "APL VANDA",
                    "vesselId": null,
                    "vesselCode": null
                },
                "voyageCode": null,
                "internalVoyageNumber": "022",
                "externalVoyageNumber": "022W",
                "pol": {
                    "port": {
                        "id": "349657045012458",
                        "portName": "Shanghai",
                        "portCode": "SHA",
                        "portFullNameEn": "Shanghai",
                        "portFullNameCn": "上海",
                        "city": null
                    },
                    "etd": "2021-08-12 00:00",
                    "atd": null,
                    "eta": null,
                    "ata": null,
                    "facilityCode": "SHA08"
                },
                "pod": {
                    "port": {
                        "id": "349645770723600",
                        "portName": "Hamburg",
                        "portCode": "HAM",
                        "portFullNameEn": "Hamburg",
                        "portFullNameCn": "Hamburg",
                        "city": null
                    },
                    "etd": null,
                    "atd": null,
                    "eta": "2021-09-16 00:00",
                    "ata": null,
                    "facilityCode": "HAM02"
                },
                "legSequence": 0,
                "direction": "W",
                "transportMode": null
            }
        ],
        "cutOffLocalDate": null,
        "estimatedTransitTimeInDays": 30,
        "etaAtFnd": "2021-09-16 00:00",
        "etdAtPor": "2020-08-12 00:00",
        "serviceCode": "AEU2",
        "vesselName": "APL VANDA",
        "direction": "W",
        "voyageNo": "022"
    },
    "routeProductPricingList": [
      {
        "cntrType": "20RF",
        "price": 44.00,
```

```
        "tradePrice": 44.00,
        "currency": "USD"
      },
      {
        "cntrType": "40RQ",
        "price": 88.00,
        "tradePrice": 88.00,
        "currency": "USD"
      }
    ],
    //  If ocean charge switch to collect payment, would need add collect
payment charge
    "collectExtraCharges": [
      {
        "cntrType": "40RQ",
        "price": 50,
        "currency": "USD"
      },
      {
        "cntrType": "20RF",
        "price": 50,
        "currency": "USD"
      }
    ],
    "promotions": {
      "detail": [
        {
          "promotionType": "FULL_OFF",
          "remnantInventory": 93,
          "summary": "箱型20RF、40RQ, 满3TEU, 订单下箱型20RF、40RQ每TEU立减
10USD。",
          "priority": 1
        }
      ]
    },
    "companyDiscountsInfoDTO": [],
    "couponInfos": [
      {
          "couponId": "8a5e11227152917a017152b6049f0002",
          "inventory": 10,
          "displayName": "test",
          "value": 1,
          "currency": "USD",
          "minOceanFee": 1, // minimum use interval of ocean fee
          "maxOceanFee": 10, // maximum use interval of ocean fee
          "maxUseLimit": 2, // use limit
          "usageUnit": "UNIT"
      }
    ],
    "reeferValueAddedServices": [   // There is a corresponding reefer
value-added services while cargoCategory is REEFER
      {
        "cntrType": "20RF",
        "type": "CA",
        "price": 10,
        "currency": "USD"
      },
      {
```

```
          "cntrType": "20RF",
          "type": "MED",   // medicine
          "price": 13,
          "currency": "USD"
        },
        {
          "cntrType": "20RF",
          "type": "CT",
          "price": 23,
          "currency": "USD"
        },
        {
          "cntrType": "20RF",
          "type": "IOT",
          "price": 23,
          "currency": "USD"
        },
        {
          "cntrType": "20RF",
          "type": "OTHERS",
          "price": 23,
          "currency": "USD"
        }
      ]
    }
}
```

7. Error sample

```
{
    "code": 20000,
    "message": "cannot identify the user, please contact support for help"
}
```

Surcharge Query Interface

Get the surcharge details of a specific product.

1. Information

- **Path**: /service/synconhub/common/extraChargeFee/reefer/${productId}
- **Method**: GET

2. Path parameters

Name	Type	Required	Description
productId	String	yes	product id

3. Query parameters

Name	Type	Required	Description
loadingServiceNo	String	no	intermodal Service No from intermodal service query results. Get the surcharge details of a specific product with loading service
dischargeServiceNo	String	no	intermodal Service No from intermodal service query results. Get the surcharge details of a specific product with discharge service

4. Request sample

```
GET
/service/synconhub/common/extraChargeFee/reefer/8a80cb817321ad030173221c880101d2
```

```
GET
/service/synconhub/common/extraChargeFee/reefer/8a80cb817321ad030173221c880101d2?
loadingServiceNo=8a5e11127467f02501747218e25c0001
```

```
GET
/service/synconhub/common/extraChargeFee/reefer/8a80cb817321ad030173221c880101d2?
loadingServiceNo=8a5e11127467f02501747218e25c0001&dischargeServiceNo=8a5e1124786
6fbec0178681acd3a0008
```

5. Response parameters

Name	Description
code	status code
message	detail message
data	response data

6. Response sample

```
{
    "code": 0,
    "message": "",
    "data": [
            {
                "chargeModel": "BL",
                "cntrSize": null, // container type
                "chargeDetail": [ // detail info
                    {
                        "chargeCode": "DOC",
                        "chargeName": "DOC",
                        "chargeType": "DOC",
```

```
                        "chargeTag": "POR",
                        "price": 666,
                        "currency": "USD",
                        "paymentTerms": "P",
                        "isFollowOceanFee": true, // payment terms follow
ocean fee payment terms
                        "category": null // charge category
                },
                {
                        "chargeCode": "DOC",
                        "chargeName": "DOC",
                        "chargeType": "DOC",
                        "chargeTag": "POR",
                        "price": 888,
                        "currency": "USD",
                        "paymentTerms": "C",
                        "isFollowOceanFee": true, // payment terms follow
ocean fee payment terms
                        "category": null // charge category
                }
            ]
        },
        {
            "chargeModel": "CNTR",
            "cntrSize": "20RF",
            "chargeDetail": [
                {
                        "chargeCode": "255",
                        "chargeName": "工本费",
                        "chargeType": "CNTR_LOCAL",
                        "chargeTag": "POR",
                        "price": 10,
                        "currency": "USD",
                        "paymentTerms": "P",
                        "isFollowOceanFee": false,
                        "category": "EXTRA_CHARGE"
                }
            ]
        }
    ]
}
```

7. Error sample

```
{
    "code": 20001,
    "message": "cannot proceed the request, please retry later or contact
support for help"
}
```

General Error Codes

- 20000: "cannot identify the user, please contact support for help"
- 20001: "The system cannot process the request,please try again or contact support for help"

- 20002: "The product cannot be found"
- 20003: "Inventory not enough"
- 20004: "Out of time"
- 20005: "Invalid box type"
- 20006: "Order does not exist"
- 20007: "Inventory of this product could not be found"
- 20008: "Promotion inventory in short supply"
- 20009: "Coupon for this order could not be found"
- 20010: "The number of coupons available is smaller than the number of coupons available for the order"
- 20011: "Discount plan inventory shortage or price change, please place a new order"
- 20012: "Invalid parameter, promotion plan verification failed"
- 20013: "Insured service does not exist or has expired, please re-order"
- 20014: "Some charges not allowed to change currency"
- 20015: "Down payment is not allowed"
- 20016: "All charges of Instance Booking have to be paid online"
- 20017: "No currency conversion is allowed for the order fee"
- 20018: "Only customers in Mainland China are allowed to purchase Instance Booking"
- 20019: "Wrong order product type"
- 20020: "Some fees only support CNY or USD"
- 20021: "Company country/region is different from country/region of POR or FND, purchase is not allowed"
- 20022: "The down payment ratio must be greater than 0"
- 20023: "Does not meet the minimum down payment percentage range"
- 20024: "Does not meet the maximum down payment percentage range"
- 20025: "The order is missing some necessary cost items"
- 20026: "The product type of the order can only be I or P"
- 20027: "The payment method for part of the order is wrong"
- 20028: "Some cost items are missing to prepaid attributes"
- 20029: "Online collect payment not support partial payment for now"
- 20030: "There are invalid charges, please place a new order"
- 20031: "Coupon overuse"
- 20032: "System charge item pre-paid configuration error, please contact customer service for processing"
- 20033: "Due to the system configuration, some fees are not allowed to be paid in USD or to switch to pre-paid, please contact the customer service for processing"
- 20034: "Dear user, this product is no longer available, please contact customer service"
- 20035: "Online payment cannot include both prepaid and collect-paid, please contact customer service for processing"
- 20036: "The quantity of BL should be greater that 1"
- 20037: "Unable to purchase this product for now, please contact customer service for processing"
- 20038: "Incorrect product information, please contact customer service for processing"
- 20039: "This payment method is not currently supported, please contact customer service for processing"
- 20040: "The page size must be greater than 0"
- 20041: "The page size should be between 0 and 30."
- 20042: "Parameter verification error"
- 20043: "Cross Booking invalid inventory"
- 20044: "Cross Booking wrong shipping date information"
- 20045: "Cross Booking insufficient stock"
- 20046: "Cross Booking cargo container not found"

- 20047: "This cargo nature type is not supported at the moment, please contact customer service"
- 20048:"Failed to get enterprise information"
- 20049:"Order query only supports data query within two months"
- 20051:"Sorry for system busy, please try again later"
- 20053:"CrossBooking schedule information LTD is wrong"
- 20054: "Address cannot be empty"
- 20055: "Sub-company carrier customer code out of scope."
- 20056: "The TEU purchase limit for the week in which the product is sold is insufficient"
- 20057: "CrossBooking contract number does not exist"
- 20058: "CrossBooking start week cannot be earlier than the current four weeks"
- 20059: "API booking cannot purchase FMC products"
- 20060: "Permission denied"
- 20061: "CosPlus | product booking must fill in all shipping related party information"
- 20062: "Wrong import and export type of intermodal service"
- 20063: "The intermodal service does not exist"
- 20064: "Can't find the city"
- 20066: "Some container types do not support intermodal service"
- 20067: "The intermodal service fee is charged by weight, and the estimated cargo weight of the box type is required"
- 20068: "The estimated weight of the container is not in the optional range, please re-order"
- 20070: "CosPlus | Shipper or consignee of shipping related party filled in the product booking is illegal."
- 20072: "API cannot purchase this type of product"
- 20073: "Charge Type:xxx,ChargeName:xxx cannot be set to Collect"
- 20074: "The long-term product does not exist"
- 20075: "The long-term product is off-shelf"
- 20076: "Insufficient amount of available containers"
- 20077: "It is not the time allowed for booking"
- 20078: "Ocean charge cannot do prepaid-collect switch"
- 20079: "The reefer value-added service does not exist or has expired"
- 20080: "The reefer value-added service type is incorrect"
- 20081: "The value of a single box of goods is more than US $500,000, please buy offline, the online process is not supported"
- 20082: "When MED are selected for reefer value-added services, the cargoValue is required"
- 20083: "You cannot choose more than one cold box value-added service other than IOT"
- 20084: "cargoInfo.reeferGenSetType cannot be empty"
- 20085: "cargoInfo.reeferTemperatureType and cargoInfo.reeferTemperatureValue cannot be empty"
- 20086: "Ventilation Settings cannot be added when the reefer temperature is less than 0 C or 32 F"
- 20087: "Ventilation setting must be added when the reefer temperature is ≥0°C or ≥32°F"