

# DCP API Updates for S4

*Dealer Connect Program*



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# Overview

BRP has changed the SAP version from ECC to S4. This change in the SAP version required modifications to the internal BRP APIs called the Information Bus (InfoBus).

The Dealer Connect Program (DCP) APIs were modified to use the new InfoBus APIs while, as far as possible, keeping the same interface towards the Dealer Management Systems (DMS).

There are some changes, mainly in the values of some fields, that are caused by the move to SAP S4 and updates to business processes.

This document presents the changes for each DCP API.

# Retrieving Data API

## PDS Dealer Master API

### Shipping Conditions

The shipping conditions have changed and new shipping conditions have been added and are available to the dealer.

The previous shipping conditions are listed in the table below.

Order Type	English	Service Level	Transport Method	Delivery Period
STK	Regular	2 Day	Ground	
STK	Overnight	1 Day	Ground	
STK	Saturday Delivery	2 Day	Ground	Saturday

The new shipping conditions are listed in the table below.

Order Type	English	Service Level	Transport Method	Delivery Period	Comment
STK	Scheduled	3 Day Deferred	Ground		Not visible to the dealer, used by RIM
STK	Standard Ground	2 Day	Ground		Default for dealer
STK	Expedited Ground	1 Day	Ground		
STK	Vehicle Down	0 Day	Ground		
STK	Veh. Down Saturday	0 Day	Ground	Saturday	

The data returned by the Dealer Master API will now use the new shipping conditions list available to the dealer, as shown below.

**IMPORTANT:** The “3 Day Deferred” service level is not available to the dealer, it is used for the orders created by the Retail Inventory Management (RIM) service.

Payload example:

```
<star:PostalAddress>  
  <star:AddressID>0000690005</star:AddressID>  
  <star:AddressType>Ship To</star:AddressType>  
  <star:AttentionOf>STEVENS CYCLE SALES</star:AttentionOf>  
  <star:CareOf>STK#Standard Ground#2 Day#Ground##</star:CareOf>  
  <star:CareOf>STK#Expedited Ground#1 Day#Ground##</star:CareOf>  
  <star:CareOf>STK#Vehicle Down#0 Day#Ground##</star:CareOf>
```

```

<star:CareOf>STK#Veh. Down Saturday#0 Day#Ground#Saturday#</star:CareOf>
<star: LineOne>3636 SOUTH HURON</star: LineOne>
<star: CityName>BAY CITY</star: CityName>
<star: CountryID>US</star: CountryID>
<star: Postcode>48706-2023</star: Postcode>
<star: StateOrProvinceCountrySub-DivisionID>MI</star: StateOrProvinceCountrySub-DivisionID>
</star: PostalAddress>

```

## Product Lines

In the new SAP S4 system, the product line codes have been updated and uniformized.

The table below shows the internal SAP S4 codes, the old product line values, and the new product line values.

SAP Code	Old Product Lines	New Product Lines
SNO	snowmobile	Snowmobiles
PWC	watercraft	Personal Watercrafts
	jetboat	Personal Watercrafts
ATV	atv	All-terrain vehicles
SSV	ssv	Side-by-Side vehicles
3WV	roadster	Three-wheel vehicles
OE	outboard_engines	Outboard Engines
PTN	pontoon_boats	Pontoons
BT		Boats

**IMPORTANT:** Note the uppercase/lowercase text for the new values.

An example of the product lines returned by the Dealer Master API.

```

</star: DealerParty>
<star: ProductsCarried>Snowmobiles</star: ProductsCarried>
<star: ProductsCarried>Personal Watercrafts</star: ProductsCarried>
<star: ProductsCarried>All-terrain vehicles</star: ProductsCarried>
<star: ProductsCarried>Side-by-Side vehicles</star: ProductsCarried>
</star: DealerLocatorDetail>

```

## ManufacturerCustomerID

The value returned in this field is changed from a dealer GUID to dealer number.

The old payload is shown below.

```
</star:PostalAddress>  
</star:SpecifiedOrganization>  
<star:ManufacturerCustomerID>4ef862ad-e230-8586-190d-0b68932dc42c</star:ManufacturerCustomerID>  
</star:DealerParty>
```

The new payload is shown below.

```
</star: PostalAddress>  
</star: SpecifiedOrganization>  
<star: ManufacturerCustomerID>0000690005</star: ManufacturerCustomerID>  
</star: DealerParty>
```

## Required Actions

- Completely reload the Dealer Master API data to retrieve the new shipping conditions and product lines.
- In the Parts Ordering interface, present the list of shipping conditions including the new values.
- If the product lines are used or displayed in the application, use the new values obtained from the Dealer Master API data.

# PDS Vehicle Specification API

## Language Codes

The Vehicle Specifications API previously supported the following language codes: en, fr, en-US, and fr-CA.

To align with other APIs, the Vehicle Specifications API now supports the following language codes: en-US, fr-CA.

## ConfirmBOD

The *ConfirmBOD* response, returned when there is an error, is currently sent with a response status code 200.

To align with other APIs, the Vehicle Specifications API now returns the *ConfirmBOD* response with a response status code 400.

## Product Lines

In the new SAP S4 system, the product line codes have been updated and uniformized.

The table below shows the internal SAP S4 codes, the old product line values, and the new product line values.

SAP Code	Old Product Lines	New Product Lines
SNO	snowmobile	Snowmobiles
PWC	watercraft	Personal Watercrafts
	jetboat	Personal Watercrafts
ATV	atv	All-terrain vehicles
SSV	ssv	Side-by-Side vehicles
3WV	roadster	Three-wheel vehicles
OE	outboard_engines	Outboard Engines
PTN	pontoon_boats	Pontoons
BT		Boats

**IMPORTANT:** Note the uppercase/lowercase text for the new values.

## Required Actions

- If the language codes “en” and “fr” are used, replace them with “en-US” and “fr-CA”.
- Handle a response status code 400 for the *ConfirmBOD* response.
- If the product lines are used or displayed in the application, use the new values obtained from the Vehicle Specifications API data.

## PDS Parts Master API

### Product Lines

In the new SAP S4 system, the product line codes have been updated and uniformized.

The table below shows the internal SAP S4 codes, the old product line values, and the new product line values.

SAP Code	Old Product Lines	New Product Lines
SNO	snowmobile	Snowmobiles
PWC	watercraft	Personal Watercrafts
	jetboat	Personal Watercrafts
ATV	atv	All-terrain vehicles
SSV	ssv	Side-by-Side vehicles
3WV	roadster	Three-wheel vehicles
OE	outboard_engines	Outboard Engines
PTN	pontoon_boats	Pontoons
BT		Boats

**IMPORTANT:** Note the uppercase/lowercase text for the new values.

An example of the product lines returned by the Parts Master API.

```
<star:ItemWeightMeasure unitCode="gram">16</star:ItemWeightMeasure>
<star:ProductLineCode>Boats</star:ProductLineCode>
<star:ProductLineCode>Pontoons</star:ProductLineCode>
<star:ProductLineCode>Personal Watercrafts</star:ProductLineCode>
<star:PartCategoryCode>parts</star:PartCategoryCode>
</star:PartMasterLine>
```

### Part Number Format

### Required Actions

- Completely reload the Parts Master API data to retrieve the unit of measures and product lines.
- If the product lines are used or displayed in the application, use the new values obtained from the Parts Master API data.



## PDS Parts Locator API

### Call for Multiple Parts

When the Parts Locator API is called to search for many parts and one of them is invalid or is for a product line not allowed for the dealer, only the errors are returned.

For example, if the Parts Locator API is called to search for 2 parts, one valid and one invalid, the following *LocatedLine* is returned for the invalid part, and no information is returned for the valid part.

```
<ns0:LocatedLines>
  <ns0:LocatedLine>
    <ns0:LocatedLineUIDID>e9ddc0f2-64be-3fc3-5723-b6be9f1e0c26</ns0:LocatedLineUIDID>
    <ns0:RequestedLineUIDID>06cbd9e7-4d10-4cc3-b147-97ca70e1520f</ns0:RequestedLineUIDID>
    <ns0:LineNumberString>00010</ns0:LineNumberString>
    <ns0:PartsProductItem>
      <ns0:ItemIdentificationGroup>
        <ns0:ItemIdentification>
          <ns0:ItemID>123456789</ns0:ItemID>
        </ns0:ItemIdentification>
      </ns0:ItemIdentificationGroup>
    </ns0:PartsProductItem>
    <ns0:ItemQuantity unitCode="pc">1</ns0:ItemQuantity>
    <ns0:LineStatus>
      <ns0:StatusCode>Invalid Part</ns0:StatusCode>
      <ns0:StatusText languageID="en-US">This material number does not exist</ns0:StatusText>
    </ns0:LineStatus>
  </ns0:LocatedLine>
</ns0:LocatedLines>
```

### ConfirmBOD

The *ConfirmBOD* response, returned when there is an error, is currently sent with a response status code 200.

To align with other APIs, the Vehicle Specifications API now returns the *ConfirmBOD* response with a response status code 400.

### Required Actions

- Display an error message when a requested part is invalid or from an unsupported product line.
- Handle a response status code 400 for the *ConfirmBOD* response.

## DCP Service History API

### GET Article with Video

Some articles have an attached video stored on Youtube.

In the old Service History API, the link to the article in Salesforce was returned, and the link to the video was not accessible to the dealer.

The new Service History API now returns both the link to the article in Salesforce and the link to the video on Youtube.

### Required Actions

- Display the video on Youtube from the received URL.

# Sending Data APIs

## PDS Parts Inventory API

### Response Payload

During the preliminary tests of the Parts Inventory API in the QA environment, we found a problem when the payload is larger than 10 MB.

A new version of the Parts Inventory API was quickly put in place that sends the payload directly to a database landing zone, bypassing the Parts Inventory API.

There is no change in the URL to be called.

**However, the response returned is different for status 200.**

You will now receive the following payload:

```
{
  "status": "success",
  "filename": "<file name>.txt.gz"
}
```

Please make sure that your application is processing the status 200.  
You can ignore the response content.

### Payload Compression

With the Parts Inventory patch the sent payload is processed in the database landing zone by a small application.

This application can't handle a payload sent in a compressed stream and the resulting file is unreadable.

Consequently, the Parts Inventory payload must be sent uncompressed.

### Required Actions

- Handle the new response payload.
- Remove compression on the Parts Inventory payload.

## **PDS Retail Transaction API (Push / Pull)**

There is no change in the Retail Transaction API.

## DCP DMS Information API

There is no change in the DMS Information API.

# Transaction APIs

## PDS Parts Ordering API

### Shipping Conditions

The shipping conditions have changed and new shipping conditions have been added and are available to the dealer.

The previous shipping conditions are listed in the table below.

Order Type	Description	Service Level	Transport Method	Delivery Period
STK	Regular	2 Day	Ground	
STK	Overnight	1 Day	Ground	
STK	Saturday Delivery	2 Day	Ground	Saturday

The new shipping conditions are listed in the table below.

Order Type	Description	Service Level	Transport Method	Delivery Period	Comment
STK	Standard	2 Day	Ground		Default for dealer
STK	Expedited	1 Day	Ground		
STK	Vehicle Down	0 Day	Ground		
STK	Veh. Down Saturday	0 Day	Ground	Saturday	

As before, the list of shipping conditions available to the user must be retrieved from the [Dealer Master API](#) data.

### Order Type Code

When the Parts Ordering API is called with the CREATE or VALIDATE action code, the *AcknowledgePartsOrder* response contains the *OrderTypeCode* in the *PartsOrderHeader* section.

In the old Parts Ordering API version, the *OrderTypeCode* was always STK. (The INI value is documented but was never used).

In the new Parts Ordering API version, the *OrderTypeCode* contains a value based on the selected shipping condition, listed section [Shipping Conditions](#) above. Other *OrderTypeCode* values may be returned when the parts order was created automatically.

Order Type	Description	ProcessPartsOrder	AcknowledgeParts Order	GetPartsOrder ShowPartsOrder
STK	Standard	X	X	X
RUS	Expedited		X	X

URG	Vehicle Down		X	X
URG	Veh. Down Saturday		X	X
PRO	Promotion			X
ASR	RIM			X
REP	Stocking			X

For example, for a parts order using the *Vehicle Down* shipping condition (*ShipmentCarrierServiceLevelCode* is “0 Day”), the returned *OrderTypeCode* is shown below.

```

<star:PartsOrder>
  <star:PartsOrderHeader>
    <star:DocumentDateTime>2022-07-06T20:38:15Z</star:DocumentDateTime>
    <star:DocumentIdentificationGroup>
      <star:DocumentIdentification>
        <star:DocumentID>AcknowledgePartsOrder</star:DocumentID>
        <star:AgencyRoleCode>Manufacturer</star:AgencyRoleCode>
      </star:DocumentIdentification>
    </star:DocumentIdentificationGroup>
    <star:PaymentTerms>
      <star:Description>Financing (PAC) Due in 30 days</star:Description>
    </star:PaymentTerms>
    <star:OrderTypeCode>URG</star:OrderTypeCode>
    <star:BillToParty>

```

## ManufacturerCustomerID

The value returned in this field is changed from a dealer GUID to dealer number.

The old payload is shown below.

```

</star:PostalAddress>
</star:SpecifiedOrganization>
<star:ManufacturerCustomerID>4ef862ad-e230-8586-190d-0b68932dc42c</star:ManufacturerCustomerID>
</star:DealerParty>

```

The new payload is shown below.

```

</star:PostalAddress>
</star:SpecifiedOrganization>
<star:ManufacturerCustomerID>0000690005</star:ManufacturerCustomerID>
</star:DealerParty>

```

## Handling, Shipping and Surcharge Fees in AcknowledgePartsOrder

The new Parts Ordering API now returns information on the shipping fees and surcharge amounts.

In the *PartsOrderHeader*, warnings are included in the *AcknowledgePartsOrder* payload if there are handling and shipping fees, there is no warning for the surcharge fee. For example:

```
<star:ShipmentCarrierDetail>
  <star:ShipmentCarrierServiceLevelCode>1 Day</star:ShipmentCarrierServiceLevelCode>
  <star:ShipmentCarrierTransportMethodTypeCode>Ground</star:ShipmentCarrierTransportMethodTypeCode>
</star:ShipmentCarrierDetail>
<star:AcknowledgementStatus>
  <star:StatusTypeCode>Warning</star:StatusTypeCode>
  <star:StatusText>Freight charges of $12.36 are applicable.</star:StatusText>
</star:AcknowledgementStatus>
<star:AcknowledgementStatus>
  <star:StatusTypeCode>Warning</star:StatusTypeCode>
  <star:StatusText>Your PAA order is less than 150.00$, handling fee of 20.00$ will be applied to the
invoice.</star:StatusText>
</star:AcknowledgementStatus>
<star:AcknowledgementStatus>
  <star:StatusTypeCode>Success</star:StatusTypeCode>
  <star:StatusText>Simulation has been done successfully</star:StatusText>
</star:AcknowledgementStatus>
<star:DocumentReferenceIdentificationGroup>
```

**IMPORTANT:** The warning message concerning the freight charges will contain the total freight charges amount for the order.

The *Price* section of the *AcknowledgePartsOrder* payload also contains the total amounts for the handling, shipping and surcharge fees, for example:

```
<star:FreeFormTextGroup>
  <star:Note>Delivery at door 8901 *** take attention: 123 ***</star:Note>
  <star:Description>Shipping Instruction</star:Description>
</star:FreeFormTextGroup>
<star:Price>
  <star:PriceCode>Total List Price</star:PriceCode>
  <star:ChargeAmount currencyID="USD">86.98</star:ChargeAmount>
  <star:PriceDescription>Gross Amount</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>Total Freight</star:PriceCode>
  <star:ChargeAmount currencyID="USD">12.36</star:ChargeAmount>
  <star:PriceDescription>Freight Charges</star:PriceDescription>
```



```

</star:Price>
<star:Price>
  <star:PriceCode>PackAmount</star:PriceCode>
  <star:ChargeAmount currencyID="USD">20.00</star:ChargeAmount>
  <star:PriceDescription>Handling Amount</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>TotalAmountExcludingTax</star:PriceCode>
  <star:ChargeAmount currencyID="USD">121.48</star:ChargeAmount>
  <star:PriceDescription>Subtotal Amount Excluding Tax</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>OtherSurchargeAmount</star:PriceCode>
  <star:ChargeAmount currencyID="USD">2.14</star:ChargeAmount>
  <star:PriceDescription>Surcharge</star:PriceDescription>
</star:Price>
</star:PartsOrderHeader>

```

Each *PartsOrderLine* section of the *AcknowledgePartsOrder* payload also contains the shipping and surcharge fees for the part, for example:

```

<star:ItemIdentificationGroup>
  <star:ItemIdentification>
    <star:ItemID>204050270</star:ItemID>
    <star:AgencyRoleCode>Manufacturer</star:AgencyRoleCode>
  </star:ItemIdentification>
</star:ItemIdentificationGroup>
<star:Price>
  <star:PriceCode>Total List Price</star:PriceCode>
  <star:ChargeAmount currencyID="USD">86.98</star:ChargeAmount>
  <star:PriceDescription>Gross Amount</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>Total Freight</star:PriceCode>
  <star:ChargeAmount currencyID="USD">12.36</star:ChargeAmount>
  <star:PriceDescription>Freight Charges</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>PackAmount</star:PriceCode>
  <star:ChargeAmount currencyID="USD">20.00</star:ChargeAmount>
  <star:PriceDescription>Handling Amount</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>TotalAmountExcludingTax</star:PriceCode>

```

```

<star:ChargeAmount currencyID="USD">121.48</star:ChargeAmount>
<star:PriceDescription>Subtotal Amount Excluding Tax</star:PriceDescription>
</star:Price>
<star:Price>
  <star:PriceCode>OtherSurchargeAmount</star:PriceCode>
  <star:ChargeAmount currencyID="USD">2.14</star:ChargeAmount>
  <star:PriceDescription>Surcharge</star:PriceDescription>
</star:Price>
</star:LineSplitPartsOrderLine>

```

**IMPORTANT:** Before calling the Parts Ordering API with the CREATE action, the parts order must be validated with a VALIDATE call. The warning messages returned in the *AcknowledgePartsOrder* payload must be displayed to the dealer and the dealer must confirm the parts order creation. Please see the [Parts Ordering API document](#) on Certify for more information on the processing flow.

## OEM Order Number in Document Identification

In the old Parts Ordering API, the OEM Order Number returned in the *DocumentIdentification* section was the BODID sent in the CREATE payload.

In the new Parts Master API, when creating a part order, the OEM Order Number returned in the *DocumentIdentification* section is a unique identifier created by SAP S4 (it's not a GUID) and is not the BODID sent in the CREATE payload.

```

<star:DocumentReferenceIdentificationGroup>
  <star:DocumentIdentification>
    <star:DocumentID>051MX1le7jo}mvodaixAHG</star:DocumentID>
    <star:AgencyRoleCode>OEM Order Number</star:AgencyRoleCode>
  </star:DocumentIdentification>
  <star:DocumentIdentification>
    <star:DocumentID>PO-123456</star:DocumentID>
    <star:AgencyRoleCode>Customer Purchase Order Number</star:AgencyRoleCode>
  </star:DocumentIdentification>
</star:DocumentReferenceIdentificationGroup>

```

The BODID can still be used in the queries for VALIDATE, CREATE and CHECKSTATUS calls.

The Parts Ordering API GET call returns the new SAP S4 OEM Order Number, as shown below.

```

<star:DocumentReferenceIdentificationGroup>
  <star:DocumentIdentification>
    <star:DocumentID>051MX6ca7jonzc}SQuQxCm</star:DocumentID>
    <star:AgencyRoleCode>OEM Order Number</star:AgencyRoleCode>
  </star:DocumentIdentification>

```

```

<star:DocumentIdentification>
  <star:DocumentID>628891369</star:DocumentID>
  <star:AgencyRoleCode>Customer Purchase Order Number</star:AgencyRoleCode>
</star:DocumentIdentification>
</star:DocumentReferenceIdentificationGroup>

```

The table below summarizes the values used for the *Customer Purchase Order Number* and the *OEM Order Number* fields.

Action Code	Customer Purchase Order Number		OEM Order Number	
	Call With	API Returns	Call With	API Returns
CREATE	DMS Generated GUID	DMS Generated GUID		SAP S4 ID
VALIDATE	DMS Generated GUID	DMS Generated GUID		SAP S4 ID
CHECKSTATUS	DMS Generated GUID	DMS Generated GUID		SAP S4 ID
GET				SAP S4 ID
CANCEL			SAP S4 ID	

**IMPORTANT:** The Parts Ordering API CANCEL service must be called with the *OEM Order Number* value and the *LineNumberString* value returned by the CREATE service.

**IMPORTANT:** To link the *Customer Purchase Order Number* to the *OEM Order Number*, SAP S4 keeps a mapping for 24 hours after the creation of a parts order. This means that 24 hours after the parts order creation, the Parts Ordering API CHECKSTATUS service can not be used to get order status.

## Customer Purchase Order Number

As a reminder, the Customer Purchase Order Number in the *DocumentIdentification* section is mandatory in the CREATE and VALIDATE calls, and corresponds to the PO number created in the DMS.

```

<star:DocumentReferenceIdentificationGroup>
  <star:DocumentIdentification>
    <star:DocumentID>PO-12345</star:DocumentID>
    <star:AgencyRoleCode>Customer Purchase Order Number</star:AgencyRoleCode>
  </star:DocumentIdentification>
</star:DocumentReferenceIdentificationGroup>

```

## LineNumberString in CREATE and GET

In the old Parts Ordering API, the *LineNumberString* values returned in the *PartsOrderLine* sections were the values sent in the CREATE payload.

In the new Parts Master API, when creating a part order, the *LineNumberString* values returned in the *PartsOrderLine* sections are unique identifiers created by SAP S4 (it's not a GUID) and is not the values sent in the CREATE payload.

For example, the following payload extract is sent by a DMS in a CREATE call.

```
<star:PartsOrderLine>
  <star:LineNumberString>6c4f0360-aa19-43e0-bf46-982808290493</star:LineNumberString>
  <star:OrderQuantity unitCode="ea">1</star:OrderQuantity>
  <star:PartLineInternalReferenceString>A-0010</star:PartLineInternalReferenceString>
  <...>
</star:PartsOrderLine>
```

The Parts Ordering API returns the following payload:

```
star:PartsOrderLine>
  <star:LineNumberString>0050568404AD1EDDAAFAAFA1D26B2D3</star:LineNumberString>
  <star:OrderQuantity unitCode="pc">1</star:OrderQuantity>
  <star:PartLineInternalReferenceString>A-0010</star:PartLineInternalReferenceString>
  <star:ItemIdDescription>STUD_BALL M5 X 15</star:ItemIdDescription>
  <star:LineSplitPartsOrderLine>
    <star:LineNumberString>0050568404AD1EDDAAFAAB15796C32D3</star:LineNumberString>
    <star:OrderQuantity unitCode="pc">1</star:OrderQuantity>
    <...>
  </star:LineSplitPartsOrderLine>
</star:PartsOrderLine>
```

The returned *LineNumberString* value is a 32 characters unique identifier (UID) value and it's returned by both the CREATE and the GET service calls.

Action Code	LineNumberString	
	Call With	API Returns
CREATE	DMS Generated GUID	SAP S4 ID
VALIDATE	DMS Generated GUID	DMS Generated GUID
CHECKSTATUS		
GET		SAP S4 ID
CANCEL	SAP S4 ID	

**IMPORTANT:** The Parts Ordering API CANCEL service must be called with the *LineNumberString* value returned by the CREATE service.

The *LineNumberString* value in the *LineSplitPartsOrderLine* section is not necessary for any operations and it's just used internally by SAP S4.

Note that if you don't want to save the returned *LineNumberString* values for the calls to the CANCEL service, then can always for retrieved with a call to the GET service to retrieve the PO information.

## Delivery Date

In the new Parts Order API, the *LineSplitPartsOrderLine* section contains the *PromisedDeliveryDate* field that indicates when the parts will be delivered.

```
<star:LineSplitPartsOrderLine>
  <star:OrderQuantity unitCode="pc">10</star:OrderQuantity>
  <star:PromisedDeliveryDate>2022-07-11</star:PromisedDeliveryDate>
  <star:DealerNetPriceAmount currencyID="USD">0.41</star:DealerNetPriceAmount>
  <star:SuggestedRetailPriceAmount currencyID="USD">0.68</star:SuggestedRetailPriceAmount>
```

## Package vs Part Ordering

In the new Parts Ordering API, when ordering a packaged part, the *AcknowledgePartsOrder* payload contains the number of parts contained in the package.

For example, when calling the API with the VALIDATE or CREATE action code, for the following part:

```
<star:PartsOrderLine>
  <star:LineNumberString>987f123d-3736-45d1-8c8d-f0be8ea9f83a</star:LineNumberString>
  <star:OrderQuantity unitCode="pc">1</star:OrderQuantity>
  <star:PartLineInternalReferenceString>123987</star:PartLineInternalReferenceString>
```

The *AcknowledgePartsOrder* payload contains the information shown below for the part. Note that the *OrderQuantity* value is changed for 10 pieces, which is the number of pieces contained in the package.

```
<star:PartsOrderLine>
  <star:LineNumberString>987f123d-3736-45d1-8c8d-f0be8ea9f83a</star:LineNumberString>
  <star:OrderQuantity unitCode="pc">10</star:OrderQuantity>
  <star:PartLineInternalReferenceString>123987</star:PartLineInternalReferenceString>
  <star:ItemIdDescription>BLT HEX HD M8X1.25X20 DIN933 CL8.8</star:ItemIdDescription>
  <star:LineSplitPartsOrderLine>
    <star:OrderQuantity unitCode="pc">10</star:OrderQuantity>
    <star:PromisedDeliveryDate>2022-07-21</star:PromisedDeliveryDate>
    <star:DealerNetPriceAmount currencyID="USD">0.39</star:DealerNetPriceAmount>
    <star:SuggestedRetailPriceAmount currencyID="USD">0.65</star:SuggestedRetailPriceAmount>
    <star:ItemIdDescription>HEX. SCREW M8 X 20</star:ItemIdDescription>
```

The *AcknowledgePartsOrder* payload AcknowledgementStatus entries will also provide information about the rounding up and quantity adjustments. For example

```

<star:AcknowledgementStatus>
  <star:StatusTypeCode>Warning</star:StatusTypeCode>
  <star:StatusText>Item rounded to rounding profile UOM</star:StatusText>
</star:AcknowledgementStatus>
<star:AcknowledgementStatus>
  <star:StatusTypeCode>Warning</star:StatusTypeCode>
  <star:StatusText>A certain quantity of the part has a special status</star:StatusText>
</star:AcknowledgementStatus>
<star:AcknowledgementStatus>
  <star:StatusTypeCode>Warning</star:StatusTypeCode>
  <star:StatusCode>Package Only</star:StatusCode>
  <star:StatusText>The ordered quantity is rounded up by multiple of 10 PC for shipment by
package(PAC).</star:StatusText>
</star:AcknowledgementStatus>

```

## Supersession and Unsellable Part

The parts order may contain one or more parts that are superseded. In this case, the *PartsOrderLine* section *LineSplitPartsOrderLine* section will contain a *ChildLineReasonCode* field that indicates *Superseded*.

```

</star:Price>
<star:ChildLineReasonCode>Superseded</star:ChildLineReasonCode>
</star:LineSplitPartsOrderLine>

```

And the *LineSplitPartsOrderLine* section *ItemIdentificationGroup* section will contain the supersession part number that is ordered.

```

<star:ItemIdentificationGroup>
  <star:ItemIdentification>
    <star:ItemID>207162044</star:ItemID>
    <star:AgencyRoleCode>Manufacturer</star:AgencyRoleCode>
  </star:ItemIdentification>
</star:ItemIdentificationGroup>

```

And it is different from the requested part number found at the end of the *PartsOrderLine* section.

```

<star:ItemIdentificationGroup>
  <star:ItemIdentification>
    <star:ItemID>104000614</star:ItemID>
    <star:AgencyRoleCode>Manufacturer</star:AgencyRoleCode>
  </star:ItemIdentification>
</star:ItemIdentificationGroup>

```

In some very rare and temporary cases, a part may be substituted by another one that is unsellable. This should never happen but the situation occurred before and is caused by configuration errors in SAP S4.

If this happens, the *AcknowledgePartsOrder* payload will contain an error in the *PartsOrderHeader* section with the following error message:

- EN: One of your part(s) has a status of not sellable, please contact your PAA analyst for detail.
- FR: Une de vos pièces à un statut non vendable, veuillez contacter votre analyste PAA pour plus de détails.

This error should be displayed to the dealer to let him know to contact BRP.

### Required Actions

- Use the new shipping conditions for the dealer ([reference](#)), obtained from the [Dealer Master API](#), when validating and creating orders.
- Display the order shipping and surcharge fees ([reference](#)) when validating and creating orders.
- When retrieving orders with the GET service, display the new order type code ([reference](#)).
- Display the error message for unsellable parts ([reference](#)).
- Display the warning messages for package parts ([reference](#)).
- Keep the *OEM Order Number* value as a link to the created Parts Order.
- If needed, keep the returned *LineNumberString* values to call the CANCEL service.

### Suggested Actions

- Display the part delivery date ([reference](#)).

## DCP Automatic PO Creation API

### Product Lines

In the new SAP S4 system, the product line codes have been updated and uniformized.

The table below shows the internal SAP S4 codes, the old product line values, and the new product line values.

SAP Code	Old Product Lines	New Product Lines
SNO	snowmobile	Snowmobiles
PWC	watercraft	Personal Watercrafts
	jetboat	Personal Watercrafts
ATV	atv	All-terrain vehicles
SSV	ssv	Side-by-Side vehicles
3WV	roadster	Three-wheel vehicles
OE	outboard_engines	Outboard Engines
PTN	pontoon_boats	Pontoons
BT		Boats

**IMPORTANT:** Note the uppercase/lowercase text for the new values.

### Required Actions

- If the product lines are used or displayed in the application, use the new values obtained from the Dealer Master API data.



## DCP Sales Opportunity API

No change in the Sales Opportunity API.

# Other

## Dealer Authentication

There was a change in the Dealer Authentication API.

The Dealer Authentication API document is found on Certify [here](#).

The change affects *Step 3 - POST /token - Refresh Access Token - Request Requirements*

In the payload returned, the *refresh\_token* value is not returned any more.

Previously, the Dealer Authentication API call with the *grant\_type refresh\_token* returned a payload like this:

```
{
  "access_token":
  "00D30000001Fh2R!AQYAQK4AQb.oq5BXhY.ysCPD5INHI8gsylAoNDG9K0bHJB7zlc1Pcj3xulv7pIBUOE0lakP0nf8jKa4yPvholqjBXC79ibGb",
  "token_type": "Bearer",
  "refresh_token": "5Aep8619juAXTkx27bhiQM393gb1re7wSWdy3Blcl47v6i13rVMlyDqKsbBO1BeSZsR.QnObpHdGjqBuHD0C2Ju"
}
```

The same call now returns the following payload:

```
{
  "access_token":
  "00D30000001Fh2R!AQYAQK4AQb.oq5BXhY.ysCPD5INHI8gsylAoNDG9K0bHJB7zlc1Pcj3xulv7pIBUOE0lakP0nf8jKa4yPvholqjBXC79ibGb",
  "signature": "MuhxGvInfHQPII/aOz3M0fy4oKXa/aVw7JC+nCkXZ7U=",
  "scope": "refresh_token id api",
  "instance_url": "https://brp.my.salesforce.com",
  "id": "https://login.salesforce.com/id/00D30000001Fh2REAS/0053x00000G7CMvAAN",
  "token_type": "Bearer",
  "issued_at": "1675979252631"
}
```

In both cases, the *access\_token* can be used for the called to Parts Ordering and Service History.

Note that the *refresh\_token* is still valid and can be reused.

The difference is that you have to keep the *refresh\_token* return by the call described in *Step 2 - POST /token - Obtain Access Token - Request Requirements* since it will not be received at each refresh. It's the call with the *grant\_type* set to *authorization\_code*.

[https://api.brp.com/dealer\\_accnt\\_mgmt/v1/authentication/oauth2/token](https://api.brp.com/dealer_accnt_mgmt/v1/authentication/oauth2/token)

## Required Actions

- Keep the *refresh\_token* returned by the call with the *grant\_type* set to *authorization\_code* (step 2) and reuse it for the calls with the *grant\_type* set to *refresh\_token* (Step 3).

## Revision History

Date	Version	Status	Comments	Author
2022-07-06	1.0	Draft		Sylvain Hamel
2022-07-12	1.1	Released	Completed after reviewing with FAs.	Sylvain Hamel
2022-09-20	1.2	Draft	Shipping conditions changed. "Standard <i>Ground</i> " "Expedited <i>Ground</i> "	
2023-02-02	1.3	Released	Parts Ordering: LineNumberStyrng value returned by CREATE and GET.  Parts Inventory: payload on response. Send uncompressed payload.  Dealer Authentication: added new payload on refresh	Sylvain Hamel