**ProductDataGet API**

Ewa 2023-06-08

**Overview**

This API can be used to fetch authorized product numbers, descriptions, packages, dependency rules etc.  
  
Different types of data can be requested (dataType in the request), one at a time:

1. MOYE - Available model years
2. TYPE - Available car types for a model year
3. DICT - Dictionary data i.e. codes and descriptions
4. AUTH - Authorization of pno12, colour, upholstery, option.
5. PACK – Package authorization & content
6. RULE - Dependency rules e.g. Option A Requires Option B
7. FEAT - Feature rules

Most of the returned data will be based on either Business Authorization or

Market Authorization, which one to use is determined by the marketAuthFlag in the request when applicable.

**API details**

|  |  |
| --- | --- |
| **URL in TEST** | https://some-url.com/service/ProductDataGet |
| **URL in QA** | https:// some-url.com /service/ProductDataGet |
| **URL in PROD** | https:// some-url.com /service/ProductDataGet |
| **Published in 3scale** | Yes |
| **Type of API** | REST |
| **Format** | XML |

**Request/Response details per data type**

1. **Model Years (MOYE)**

To fetch available model years.

**Request**startModelYear tag values:

* Starting model year, e.g. 2021
* Empty will give data from current model year and onwards

<ProductDataGet>

    <consumer>XDM</consumer>

    <dataType>**MOYE**</dataType>

    <specMarket>110</specMarket>

    <startModelYear></startModelYear>

</ProductDataGet>

**Response**

<ProductData\_RES>

    <Moye>

        <Error></Error>

        <Market>110</Market>

        <Data>

            <Year>2024</Year>

            <Year>2025</Year>

        </Data>

    </Moye>

</ProductData\_RES>

1. **Car Types (TYPE)**

To fetch available car types for a model year.

**Request**

<ProductDataGet>

    <consumer>XDM</consumer>

    <dataType>**TYPE**</dataType>

    <specMarket>110</specMarket>

    <modelYear>2024</modelYear>

</ProductDataGet>

**Response**

<ProductData\_RES>

    <Types>

        <Error></Error>

        <Market>110</Market>

        <Year>2024</Year>

        <Data>

            <DataRow>

                <Type>536</Type>

                <ShortText>XC40      </ShortText>

                <MarketText>XC40      </MarketText>

            </DataRow>

            <DataRow>

                <Type>539</Type>

                <ShortText>C40       </ShortText>

                <MarketText>C40       </MarketText>

            </DataRow>

...   
        </Data>

    </Types>

</ProductData\_RES>

1. **Dictionary (DICT)**

To fetch dictionary data, i.e. available PNO34/Package/Feature codes and descriptions.

**Request**

marketAuthFlag tag values:

* M to get only Market authorized products (NSC offer)
* Empty to get full Business authorization for the market (central offer)

startWeek tag values:

* CURR will give data from current structure week and onwards, not any historical weeks
* Empty will give data for the full mode year

Example:

<ProductDataGet>

    <consumer>XDM</consumer>

    <dataType>**DICT**</dataType>

    <specMarket>110</specMarket>

    <carType>246</carType>

    <modelYear>2024</modelYear>

    <marketAuthFlag>M</marketAuthFlag>

    <startWeek></startWeek> (this is the starting structure week, empty means fetch the

</ProductDataGet> full MY, CURR means fetch current week and onwards)

**Response**

MainDataType tag values:

1. PNO = PNO12 parts.   
   DataType tag values (sub item of PNO):
   * Typ = Car type
   * En = Engine
   * SV = Sales Version
   * B = Body
   * G = Gearbox
   * S = Steering
   * Mc = Marketing Code
2. COL = Colour
3. UPH = Upholstery
4. OPT = Options
5. PKG = Packages
6. FEA = Features

Special tag values: empty or blank except for data type FEA where it has S on special vehicle features.

Example :<ProductData\_RES>

    <Dict>

        <Error></Error>

        <Market>110</Market>

        <Year>2024</Year>

        <Model>246</Model>

        <Data>

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**Typ**</DataType>

                <Code>246</Code>

                <Special/>

                <ShortText>XC60</ShortText>

                <MarketText>XC60 II</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**En**</DataType>

                <Code>H1</Code>

                <Special/>

                <ShortText>BH1PHEV</ShortText>

                <MarketText>P4 HP 2.0L 398/659</MarketText>

                <Start>202317</Start>

                <End>202345</End>

            </DataRow>

...

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**SV**</DataType>

                <Code>T3</Code>

                <Special/>

                <ShortText>SVT3</ShortText>

                <MarketText>Plus Bright 5-Seat</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**B**</DataType>

                <Code>0</Code>

                <Special/>

                <ShortText>BLANK</ShortText>

                <MarketText>NO SIGNIFICATION</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**G**</DataType>

                <Code>C</Code>

                <Special/>

                <ShortText>8-AUT 4WD</ShortText>

                <MarketText>8-SPEED AUTO AWD</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**S**</DataType>

                <Code>1</Code>

                <Special/>

                <ShortText>LH DRIVE</ShortText>

                <MarketText>LH DRIVE</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...

            <DataRow>

                <MainDataType>**PNO**</MainDataType>

                <DataType>**MC**</DataType>

                <Code>10</Code>

                <Special/>

                <ShortText>NORDIC</ShortText>

                <MarketText>NORDIC</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...

            <DataRow>

                <MainDataType>**COL**</MainDataType>

                <DataType/>

                <Code>614</Code>

                <Special/>

                <ShortText>EXT614</ShortText>

                <MarketText>ICE WHITE, SOLID</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...  
            <DataRow>

                <MainDataType>**UPH**</MainDataType>

                <DataType/>

                <Code>U710</Code>

                <Special/>

                <ShortText>U710</ShortText>

                <MarketText>BLOND CHAR/TEXTILE5/CITYW</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...

            <DataRow>

                <MainDataType>**OPT**</MainDataType>

                <DataType/>

                <Code>000010</Code>

                <Special/>

                <ShortText>POWSEATPASS</ShortText>

                <MarketText>POWER SEAT, PASSENGER</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...  
            <DataRow>

                <MainDataType>**OPT**</MainDataType>

                <DataType/>

                <Code>X00500</Code>

                <Special/>

                <ShortText>X00500</ShortText>

                <MarketText>Drivlineavtal 3år/360000</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>

...  
            <DataRow>

                <MainDataType>**PKG**</MainDataType>

                <DataType/>

                <Code>P0041</Code>

                <Special/>

                <ShortText/>

                <MarketText>Driver Awareness Pack</MarketText>

                <Start>202405</Start>

                <End>202345</End>

            </DataRow>

...  
            <DataRow>

                <MainDataType>FEA</MainDataType>

                <DataType/>

                <Code>AA05</Code>

                <Special> </Special>

                <ShortText>V426</ShortText>

                <MarketText>V426  XC60</MarketText>

                <Start>202317</Start>

                <End>202416</End>

            </DataRow>  
 ...

        </Data>

    </Dict>

</ProductData\_RES>

1. **Authorization (AUTH)**

To fetch market or business authorization for PNO12, Colour, Upholstery and Option.

**Request**

marketAuthFlag tag values:

* M to get only Market authorized products (NSC offer)
* Empty to get full Business authorization for the market (central offer)

startWeek tag values:

* CURR will give data from current structure week and onwards, not any historical weeks
* Empty will give data for the full mode year

Example:

<ProductDataGet>

    <consumer>XDM</consumer>

    <dataType>**AUTH**</dataType>

    <specMarket>452</specMarket>

    <carType>536</carType>

    <modelYear>2024</modelYear>

    <marketAuthFlag>M</marketAuthFlag>

    <startWeek></startWeek>

</ProductDataGet>

**Response**

Rule tag can have the following values:

* Pno12: O
* Colour: C=Authorized, B=Basic (and authorized), = is alternative to B
* Upholstery: U=Authorized, B= Basic (and authorized), = is alternative to B
* Option: O=Authorized, P=Package only, %=100% option

GroupShort & GroupName tags in response are not used any longer and will always be empty.

Example:

<ProductData\_RES>

    <Auth>

        <Error></Error>

        <Market>452</Market>

        <Year>2024</Year>

        <Model>536</Model>

        <Data>

            <DataRow>

                <DataType>**PNO**</DataType>

                <Code>536EPR80L246</Code>

                <VariantRules>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine>EP</Engine>

                        <SalesVersion>R8</SalesVersion>

                        <Body>0</Body>

                        <Gearbox>L</Gearbox>

                        <Steering>2</Steering>

                        <MarketCode>46</MarketCode>

                        <Rule>O</Rule>

                        <Start>202335</Start>

                        <End>202416</End>

                    </VariantRule>

                </VariantRules>

                <GroupShort/>

                <GroupName/>

            </DataRow>

...

            <DataRow>

                <DataType>**COL**</DataType>

                <Code>626</Code>

                <VariantRules>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine></Engine>

                        <SalesVersion></SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>B</Rule>

                        <Start>202335</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine>ER</Engine>

                        <SalesVersion></SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>B</Rule>

                        <Start>202317</Start>

                        <End>202334</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine>K9</Engine>

                        <SalesVersion></SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>B</Rule>

                        <Start>202317</Start>

                        <End>202334</End>

                    </VariantRule>

                </VariantRules>

                <GroupShort> </GroupShort>

                <GroupName></GroupName>

            </DataRow>

...

            <DataRow>

                <DataType>**UPH**</DataType>

                <Code>RD00</Code>

                <VariantRules>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine></Engine>

                        <SalesVersion>83</SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>B</Rule>

                        <Start>202317</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine></Engine>

                        <SalesVersion>R5</SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>U</Rule>

                        <Start>202317</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine></Engine>

                        <SalesVersion>87</SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>U</Rule>

                        <Start>202317</Start>

                        <End>202416</End>

                    </VariantRule>

                </VariantRules>

                <GroupShort> </GroupShort>

                <GroupName></GroupName>

            </DataRow>

...

            <DataRow>

                <DataType>**OPT**</DataType>

                <Code>XVSW03</Code>

                <VariantRules>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine>EP</Engine>

                        <SalesVersion></SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>O</Rule>

                        <Start>202335</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>536</Model>

                        <Engine>ER</Engine>

                        <SalesVersion></SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering></Steering>

                        <MarketCode></MarketCode>

                        <Rule>%</Rule>

                        <Start>202317</Start>

                        <End>202416</End>

                    </VariantRule>

                </VariantRules>

                <GroupShort> </GroupShort>

                <GroupName></GroupName>

            </DataRow>

        </Data>

    </Auth>

</ProductData\_RES>

1. **Packages (PACK)**

To fetch market authorization for packages.

**Request**

marketRulAuthFlag tag need to be :

* M to get Market authorized packages

startWeek tag values:

* CURR will give data from current structure week and onwards, not any historical weeks
* Empty will give data for the full mode year

Example:

<ProductDataGet>

    <consumer>VPIS</consumer>

    <dataType>**PACK**</dataType>

    <specMarket>231</specMarket>

    <carType>246</carType>

    <modelYear>2024</modelYear>

    <marketAuthFlag>M</marketAuthFlag>

    <startWeek></startWeek>

</ProductDataGet>

**Response**

Rule tag can have the following values:

* B = Basic
* E = Exchangeable (connected to a base)

Example:

<ProductData\_RES>

    <Pack>

        <Error></Error>

        <Market>231</Market>

        <Year>2024</Year>

        <Model>246</Model>

        <Data>

...  
            <DataRow>

                <Code>P0008</Code>

                <Text>Climate</Text>

                <VariantRules>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>  </Engine>

                        <SalesVersion>12</SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering> </Steering>

                        <MarketCode></MarketCode>

                        <Start>202329</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>  </Engine>

                        <SalesVersion>17</SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering>1</Steering>

                        <MarketCode></MarketCode>

                        <Start>202329</Start>

                        <End>202345</End>

                    </VariantRule>

                </VariantRules>

                <Content>

                    <Item>

                        <code>000011</code>

                        <type>OPT</type>

                        <Rule>B</Rule>

                        <base></base>

                    </Item>

                    <Item>

                        <code>000752</code>

                        <type>OPT</type>

                        <Rule>B</Rule>

                        <base></base>

                    </Item>

                    <Item>

                        <code>000322</code>

                        <type>OPT</type>

                        <Rule>E</Rule>

                        <base>000752</base>

                    </Item>

                    <Item>

                        <code>000869</code>

                        <type>OPT</type>

                        <Rule>B</Rule>

                        <base></base>

                    </Item>

                </Content>

                <VariantRules>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>  </Engine>

                        <SalesVersion>B2</SalesVersion>

                        <Body/>

                        <Gearbox></Gearbox>

                        <Steering> </Steering>

                        <MarketCode></MarketCode>

                        <Start>202317</Start>

                        <End>202345</End>

                    </VariantRule>

                </VariantRules>

                <Content>

                    <Item>

                        <code>000011</code>

                        <type>OPT</type>

                        <Rule>B</Rule>

                        <base></base>

                    </Item>

                    <Item>

                        <code>000752</code>

                        <type>OPT</type>

                        <Rule>B</Rule>

                        <base></base>

                    </Item>

                    <Item>

                        <code>000322</code>

                        <type>OPT</type>

                        <Rule>E</Rule>

                        <base>000752</base>

                    </Item>

                    <Item>

                        <code>000869</code>

                        <type>OPT</type>

                        <Rule>B</Rule>

                        <base></base>

                    </Item>

                </Content>

            </DataRow>

...

        </Data>

    </Pack>

</ProductData\_RES>

1. **Dependency rules (RULE)**

To fetch dependency/combination rules between colours, upholsteries and options.

**Request**

marketAuthFlag tag values:

* M to get only Market authorized products (NSC offer)
* Empty to get full Business authorization for the market (central offer)

startWeek tag values:

* CURR will give data from current structure week and onwards, not any historical weeks
* Empty will give data for the full mode year

Example:

<ProductDataGet>

    <consumer>VPIS</consumer>

    <dataType>**RULE**</dataType>

    <specMarket>110</specMarket>

    <carType>246</carType>

    <modelYear>2024</modelYear>

    <marketAuthFlag>M</marketAuthFlag>

    <startWeek></startWeek>

</ProductDataGet>

**Response**

Rule tag can have the following values:

* OFO = Option Forbidden with Option
* ORO = Option Requires Option
* OFU = Option Forbidden with Upholsteries
* OFC = Option forbidden with colours.
* URO = Upholstery Requires Option

Example:  
<ProductData\_RES>

    <Rules>

        <Error></Error>

        <Market>110</Market>

        <Year>2024</Year>

        <Model>246</Model>

        <Data>

            <DataRow>

                <Rule>**OFO**</Rule>

                <Item>A00463</Item>

                <mflist>

                    <mf>001028</mf>

                </mflist>

                <VariantRules>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>  </Engine>

                        <SalesVersion>  </SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Start>202317</Start>

                        <End>202416</End>

                    </VariantRule>

                </VariantRules>

            </DataRow>

            <DataRow>

                <Rule>**ORO**</Rule>

                <Item>900218</Item>

                <mflist>

                    <mf>000322</mf>

                    <mf>000752</mf>

                </mflist>

                <VariantRules>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>H4</Engine>

                        <SalesVersion>TR</SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Start>202346</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>H4</Engine>

                        <SalesVersion>T3</SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Start>202346</Start>

                        <End>202416</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>H4</Engine>

                        <SalesVersion>T7</SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Start>202346</Start>

                        <End>202416</End>

                    </VariantRule>

                </VariantRules>

            </DataRow>

            <DataRow>

                <Rule>**OFU**</Rule>

                <Item>000384</Item>

                <mflist>

                    <mf>R471  </mf>

                </mflist>

                <VariantRules>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>  </Engine>

                        <SalesVersion>  </SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Start>202317</Start>

                        <End>202416</End>

                    </VariantRule>

                </VariantRules>

            </DataRow>

...

        </Data>

    </Rules>

</ProductData\_RES>

1. **Features (FEAT)**

To fetch market features and their connection to PNO12 (market features are the once shown in Feature Table).

**Request**

marketAuthFlag tag values:

* M to get only Market authorized products (NSC offer)
* Empty to get full Business authorization for the market (central offer)

startWeek tag values:

* CURR will give data from current structure week and onwards, not any historical weeks
* Empty will give data for the full mode year

Example:

<ProductDataGet>

    <consumer>VPIS</consumer>

    <dataType>**FEAT**</dataType>

    <specMarket>231</specMarket>

    <carType>246</carType>

    <modelYear>2024</modelYear>

    <marketAuthFlag>M</marketAuthFlag>

    <startWeek></startWeek>

</ProductDataGet>

**Response**

Rule tag can have the following values:

* = Optional
* S = Standard

Example:

<ProductData\_RES>

    <Feat>

        <Error></Error>

        <Market>231</Market>

        <Year>2024</Year>

        <Model>246</Model>

        <Data>

            <DataRow>

                <Code>2B02  </Code>

                <Special></Special>

                <Ref>273</Ref>

                <VariantRules>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>H1</Engine>

                        <SalesVersion>  </SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Option>      </Option>

                        <Rule>S</Rule>

                        <Start>202317</Start>

                        <End>202345</End>

                    </VariantRule>

                    <VariantRule>

                        <Model>246</Model>

                        <Engine>K5</Engine>

                        <SalesVersion>  </SalesVersion>

                        <Body/>

                        <Gearbox> </Gearbox>

                        <Steering> </Steering>

                        <MarketCode>  </MarketCode>

                        <Option>      </Option>

                        <Rule>O</Rule>

                        <Start>202317</Start>

                        <End>202412</End>

                    </VariantRule>

...

                </VariantRules>

                <GroupShort>CLI</GroupShort>

                <GroupName>Climate</GroupName>

            </DataRow>

...

        </Data>

    </Feat>

</ProductData\_RES>