
Olyslager Customer Application Programming Interface (API)

Developers Guide version 3.2.15

Olyslager Organisation B.V.
www.ollyslager.com

Olyslager Customer Application Programming Interface (API)

The Olyslager Customer API offers access to a variety of web methods.

Methods are **only accessible with the right subscription**. Please contact Olyslager Organisation for more information.

To access the Olyslager Customer API, the following items are required (provided by Olyslager):

1. A username
2. A password
3. The URL to the web service
4. A list of available country- / language codes
5. A list of available web methods

The following items must be provided to Olyslager to gain access to the web service / API:

1. A list of IP numbers (max 2) from where the request is send.

To access the **TEST or **DEMO** web service, the URL is:**

URL secure	: https://olyslager-customerAPI.lubsadvisor.com
Web service source	: OlyslagerAPI.asmx
WSDL	: OlyslagerAPI.asmx?wsdl

To access the **LIVE web service, the URL is:**

URL secure	: https://olyslager-customerAPI.lubricantinformation.com
Web service source	: OlyslagerAPI.asmx
WSDL	: OlyslagerAPI.asmx?wsdl

Overview available methods.

Please note that access to a specific method is limited **only to subscribed users**.

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The following operations are supported. For a formal definition, please review the Web Service Description Language (WSDL) .

1. Category, make, model, type and component lists

- **Get a list of categories**

Returns an XML-message with a list of available categories.

Method	: GetCategoryList
Request Parameters	: UserName
	: Password
	: LanguageISO3
Result	: List of category names and ID's

- **Get a list of categories using Product Database Code**

Returns an XML-message with a list of available category names and IDs, available within the DatabaseCode specified database.

Method	: GetCategoryListUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: DatabaseCode*
Result	: List of category names and IDs

*) The DatabaseCode is provided by Olyslager and links to a specific product database

- **Get a list of *categories* filtered by product ID**

Returns an XML-message with a list of available category names and IDs filtered by product ID.

Methods : GetCategoryListByProduct

Request Parameters : UserName

: Password

: LanguageISO3

: ProductID

Result : List of category names and IDs

- **Get a list of *categories* filtered by product ID using Product Database Code**

Returns an XML-message with a list of available category names and IDs filtered by product ID, available within the DatabaseCode specified database.

Methods : GetCategoryListByProductUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: ProductID

: DatabaseCode*

Result : List of category names and IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **makes** within a category*

Returns an XML-message with a list of available make names and make IDs.

Method	: GetMakeList
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
Result	: List of make names and encrypted IDs

- *Get a list of **makes** within a category using Product Database Code*

Returns an XML-message with a list of available make names and make IDs, available within the DatabaseCode specified database.

Method	: GetMakeListUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: DatabaseCode*
Result	: List of make names and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **makes** within a category filtered by product ID*

Returns an XML-message with a list of available make names and make IDs filtered by product ID.

Method	: GetMakeListByProduct
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: ProductID
Result	: List of make names and encrypted IDs

- *Get a list of **makes** within a category filtered by product ID using Product Database Code*

Returns an XML-message with a list of available make names and make IDs filtered by product ID, available within the DatabaseCode specified database.

Method	: GetMakeListByProductUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: ProductID
	: DatabaseCode*
Result	: List of make names and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **makes** within a category filtered by year*

Returns an XML-message with a list of available make names and make IDs filtered by year.

Method	: GetMakeListByYear
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: Year
Result	: List of make names and encrypted IDs

- *Get a list of **makes** within a category filtered by year using Product Database Code*

Returns an XML-message with a list of available make names and make IDs filtered by year, available within the DatabaseCode specified database.

Method	: GetMakeListByYearUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: Year
	: DatabaseCode*
Result	: List of make names and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **models** from a make ID*

Returns an XML-message with a list of available model names, build years and model IDs.

Method : GetModelList

Request Parameters : UserName

: Password

: LanguageISO3

: MakeID

Result : List of model names, build years and encrypted IDs

- *Get a list of **models** from a make ID using Product Database Code*

Returns an XML-message with a list of available model names, build years and model IDs, available within the DatabaseCode specified database.

Method : GetModelListUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: MakeID

: DatabaseCode*

Result : List of model names, build years and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **models** from a make ID filtered by product ID*

Returns an XML-message with a list of available model names, build years and model IDs filtered by product ID.

Method	: GetModelListByProduct
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: MakeID
	: ProductID
Result	: List of model names, build years and encrypted IDs

- *Get a list of **models** from a make ID filtered by product ID using Product Database Code*

Returns an XML-message with a list of available model names, build years and model IDs filtered by product ID, available within the DatabaseCode specified database.

Method	: GetModelListByProductUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: MakeID
	: ProductID
	: DatabaseCode*
Result	: List of model names, build years and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **models** from a make ID filtered by year*

Returns an XML-message with a list of available model names, build years and model IDs filtered by year.

Method : GetModelListByYear

Request Parameters : UserName

: Password

: LanguageISO3

: MakeID

: Year

Result : List of model names, build years and encrypted IDs

- *Get a list of **models** from a make ID filtered by year using Product Database Code*

Returns an XML-message with a list of available model names, build years and model IDs filtered by year, available within the DatabaseCode specified database.

Method : GetModelListByYearUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: MakeID

: Year

: DatabaseCode*

Result : List of model names, build years and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- **Get a list of *types* from a model ID**

Returns an XML-message with a list of available type names, build years, code and type IDs.

Method : GetTypeList

Request Parameters : UserName

: Password

: LanguageISO3

: ModelID

Result : List of type names, build years, code and encrypted IDs

- **Get a list of *types* from a model ID using Product Database Code**

Returns an XML-message with a list of available type names, build years, code and type IDs, available within the DatabaseCode specified database.

Method : GetTypeListUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: ModelID

: DatabaseCode*

Result : List of type names, build years, code and encrypted IDs

*) The DatabaseCode is provided by Olyslager and links to a specific product database

- *Get a list of **types** from a model ID filtered by product ID*

Returns an XML-message with a list of available type names, build years, code and type IDs filtered by product ID.

Method : GetTypeListByProduct

Request Parameters : UserName

: Password

: LanguageISO3

: ModelID

: ProductID

Result : List of type names, build years, code and encrypted IDs

- *Get a list of **types** from a model ID filtered by product ID using Product Database Code*

Returns an XML-message with a list of available type names, build years, code and type IDs filtered by product ID, available within the DatabaseCode specified database.

Method : GetTypeListByProductUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: ModelID

: ProductID

: DatabaseCode*

Result : List of type names, build years, code and encrypted IDs

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

- *Get a list of **types** from a model ID filtered by year*

Returns an XML-message with a list of available type names, build years, code and type IDs filtered by year.

Method	: GetTypeListByYear
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: ModelID
	: Year
Result	: List of type names, build years, code and encrypted IDs

- *Get a list of **types** from a model ID filtered by year using Product Database Code*

Returns an XML-message with a list of available type names, build years, code and type IDs filtered by year, available within the DatabaseCode specified database.

Method	: GetTypeListByYearUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: ModelID
	: Year
	: DatabaseCode*
Result	: List of type names, build years, code and encrypted IDs

*) The DatabaseCode is provided by Olyslager and links to a specific product database

- *Get a list of type **components** from a type ID filtered by product ID*

Returns an XML-message with a list of available type components filtered by product ID.

Method : GetComponentListByProduct

Request Parameters : UserName

: Password

: LanguageISO3

: TypeID

: ProductID

Result : List of type components

- *Get a list of type **components** from a type ID filtered by product ID using Product Database Code*

Returns an XML-message with a list of available type components filtered by product ID, available within the DatabaseCode specified database

Method : GetComponentListByProductUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: TypeID

: ProductID

: DatabaseCode*

Result : List of type components

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

3. Search

- **Search for keywords in the make- & model -database**

Returns an XML-message with a list of available category, make, model, code and build year. Also the model ID is returned.

Method	: GetModelListFromSearch
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: SearchText
	: CategoryID (optional)
	: BuildYear (optional)
Result	: List of category names*, model names, build years, code and encrypted IDs

**) When no CategoryID is provided, search takes place within all allowed categories and the category names are included in the return XML message. When a CategoryID is provided, search will only take place within this category (i.e.1 = Cars, 2 = Light commercial vehicles (<7.5t), etc) and no category name is included in the return XML message.*

NOTE: If the search is too broad, a maximum of 99 records is shown. In this case result code 3 is returned with description ResultExceedsMaxOf99

- **Search for keywords in the make- & model-database using Product Database Code**

Returns an XML-message with a list of available category, make, model, code and build year available within the DatabaseCode specified database. Also the model id is returned.

Method	: GetModelListFromSearchUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: SearchText
	: CategoryID (optional)
	: BuildYear (optional)
	: DatabaseCode**
Result	: List of category names*, model names, build years, code and encrypted IDs

**) When no CategoryID is provided, search takes place within all allowed categories and the category names are included in the return XML message. When a CategoryID is provided, search will only take place within this category (i.e.1 = Cars, 2 = Light commercial vehicles (<7.5t), etc) and no category name is included in the return XML message.*

***) The DatabaseCode is provided by Olyslager and links to a specific product database*

NOTE: If the search is too broad, a maximum of 99 records is shown. In this case result code 3 is returned with description ResultExceedsMaxOf99

- **Search for keywords in the make-, model- & type-database**

Returns an XML-message with a list of available category names, type names, build year, code and type IDs

Method : GetTypeListFromSearch

Request Parameters : UserName

: Password

: LanguageISO3

: SearchText

: CategoryID (optional)

: BuildYear (optional)

Result : List of category names*, type names, build years, code and encrypted IDs

**) When no CategoryID is provided, search takes place within all allowed categories and the category names are included in the return XML message. When a CategoryID is provided, search will only take place within this category (i.e. 1 = Cars, 2 = Light commercial vehicles (<7.5t), etc) and no category name is included in the return XML message.*

NOTE: If the search is too broad, a maximum of 99 records is shown. In this case result code 3 is returned with description `ResultExceedsMaxOf99`

- **Search for keywords in the make-, model- & type-database using Product Database Code**

Returns an XML-message with a list of available category names, type names, build year, code and type IDs, available within the DatabaseCode specified database

Method : GetTypeListFromSearchUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: SearchText

: CategoryID (optional)

: BuildYear (optional)

: DatabaseCode**

Result : List of category names*, type names, build years, code and encrypted IDs

**) When no CategoryID is provided, search takes place within all allowed categories and the category names are included in the return XML message. When a CategoryID is provided, search will only take place within this category (i.e. 1 = Cars, 2 = Light commercial vehicles (<7.5t), etc) and no category name is included in the return XML message.*

***) The DatabaseCode is provided by Olyslager and links to a specific product database*

NOTE: If the search is too broad, a maximum of 99 records is shown. In this case result code 3 is returned with description `ResultExceedsMaxOf99`

- **Instant Search for keywords in the make-, model- & type-database**

Returns an XML-message with a list of available category names, type names, build year, code and type IDs

Method	: GetTypeListFromInstantSearch
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: SearchText
	: CategoryID (optional)*
Result	: List of category names*, type names, build years, code and encrypted IDs
Addition	: When you have access to the ByYear methods (also described in this documentation) it will automatically allow you to do this instant search method in combination with a vehicle year (example: "2015 Mustang"). API reply will return the results adding the year in front of the vehicle information (2015 – Category – Make – Model - Type). In some cases the API will return a vehicle with a specific year range mentioned behind the type name, this is the case where there are 2 types found with an overlap in years and there is a difference in vehicle component and/or lubricant recommendation.

**) When no CategoryID is provided, search takes place within all allowed categories and the category names are included in the return XML message. When a CategoryID is provided, search will only take place within this category (i.e. 1 = Cars, 2 = Light commercial vehicles (<7.5t), etc) and no category name is included in the return XML message.*

NOTE: If the search is too broad, a maximum of 15 records is shown. In this case result code 3 is returned with description `ResultExceedsMaxOf15`

- **Instant Search for keywords in the make-, model- & type-database using Product Database Code**

Returns an XML-message with a list of available category names, type names, build year, code and type IDs, available within the DatabaseCode specified database

Method	: GetTypeListFromInstantSearchUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: SearchText
	: CategoryID (optional)*
	: DatabaseCode**
Result	: List of category names*, type names, build years, code and encrypted IDs
Addition	: When you have access to the ByYear methods (also described in this documentation) it will automatically allow you to do this instant search method in combination with a vehicle year (example: "2015 Mustang"). API reply will return the results adding the year in front of the vehicle information (2015 – Category – Make – Model - Type). In some cases the API will return a vehicle with a specific year range mentioned behind the type name, this is the case where there are 2 types found with an overlap in years and there is a difference in vehicle component and/or lubricant recommendation.

**) When no CategoryID is provided, search takes place within all allowed categories and the category names are included in the return XML message. When a CategoryID is provided, search will only take place within this category (i.e.1 = Cars, 2 = Light commercial vehicles (<7.5t), etc) and no category name is included in the return XML message.*

****) The DatabaseCode is provided by Olyslager and links to a specific product database*

NOTE: If the search is too broad, a maximum of 15 records is shown. In this case result code 3 is returned with description ResultExceedsMaxOf15

3. Product Lists

- **Get a list all products**

Returns an XML-message with a list of available product names, IDs, product code and appearance order

Method : GetProductList

Request Parameters : UserName

: Password

: LanguageISO3

Result : List of product names, product code, ID and appearance order

- **Get a list all products using Product Database Code**

Returns an XML-message with a list of product names, IDs, product code and appearance order, available within the DatabaseCode specified database

Method : GetProductListUsingDatabaseCode

Request Parameters : UserName

: Password

: LanguageISO3

: DatabaseCode*

Result : List of product names, product code, ID and appearance order

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

4. Recommendation

- **Get Recommendation from an Olyslager type ID**

Returns an XML-message with the recommendation for the requested encrypted Olyslager type ID

Method	: TypeID2Recommendation
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: Olyslager encrypted TypeID
Result	: XML message with the recommendation for the requested type ID.

- **Get Recommendation from an Olyslager type ID using Product Database Code**

Returns an XML-message with the recommendation for the requested encrypted Olyslager type ID, where the products are available within the DatabaseCode specified database

Method	: TypeID2RecommendationUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: Olyslager encrypted TypeID
	: DatabaseCode**
Result	: XML message with the recommendation for the requested type ID.

Possible result nodes*:

<i>Make</i>	: <i>make of the vehicle found</i>
<i>Model</i>	: <i>model of the vehicle found</i>
<i>Type</i>	: <i>type of the vehicle found</i>
<i>Yearrange</i>	: <i>the year range this car type was/is in production</i> (e.g. 1999- = 1999 and on, -1999 = until 1999)
<i>Brandrange</i>	: <i>name of the brand range</i>
<i>Component</i>	: <i>name of the component</i>
<i>Capacity</i>	: <i>oil capacity (in liter) of the selected component</i>
<i>Usage</i>	: <i>the type of usage the recommendation is calculated for</i>
<i>Product</i>	: <i>name of the recommended product</i>
<i>Salesitems</i>	: <i>Article info entered in the Branding Center</i> (contains article info like: partnumber, eancode, packingunit, unittypeid etc.)

*) The exact composition of the XML-return message can vary, as this depends on several settings, like the use of brandranges, the maximum of shown products, the amount of components included (i.e. only engine oils), etc.

**) The DatabaseCode is provided by Olyslager and links to a specific product database

5. License plate

- **Get the Olyslager type ID from a License Plate**

Returns an XML-message with one or more encrypted type IDs from a license plate

Method	: LicensePlate2TypeID
Request Parameters	: UserName
	: Password
	: CountryISO3*
	: LicensePlate
	: CategoryID
Result	: XML message with one or more encrypted Olyslager type IDs.

Note: One vehicle license request can result in several vehicle id's. The amount of vehicles is mentioned in the node <numrecords>

*) Available country codes: see page 42

- **Get the Olyslager type ID from a License Plate using Product Database Code**

Returns an XML-message with one or more encrypted type IDs from a license plate, available within the DatabaseCode specified database

Method	: LicensePlate2TypeIDUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: CountryISO3*
	: Licenseplate
	: CategoryID
	: LanguageISO3
	: DatabaseCode**
Result	: XML message with one or more encrypted Olyslager type IDs.

Note: One vehicle license request can result in several vehicle IDs. The amount of vehicles is mentioned in the node <numrecords>

*) Available country codes: see page 42

**) The DatabaseCode is provided by Olyslager and links to a specific product database

- **Get the Olyslager type ID from an USA License Plate**

Returns an XML-message with one or more encrypted type IDs from a license plate

Method	: USALicensePlate2TypeID
Request Parameters	: UserName
	: Password
	: CountryISO3*
	: Licenseplate
	: State**
	: CategoryID
Result	: XML message with one or more encrypted Olyslager type IDs.

Note: One vehicle license request can result in several vehicle IDs. The amount of vehicles is mentioned in the node <numrecords>

*) Available country codes: see page 42

**) Available states: see page 42

- **Get the Olyslager type ID from an USA License Plate using Product Database Code**

Returns an XML-message with one or more encrypted type IDs from a license plate, available within the DatabaseCode specified database

Method	: LicensePlate2TypeIDUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: CountryISO3*
	: LicensePlate
	: State**
	: CategoryID
	: LanguageISO3
	: DatabaseCode***
Result	: XML message with one or more encrypted Olyslager type IDs.

Note: One vehicle license request can result in several vehicle IDs. The amount of vehicles is mentioned in the node <numrecords>

*) Available country codes: see page 42

**) Available states: see page 42

***) The DatabaseCode is provided by Olyslager and links to a specific product database

6. Conversions

- **Get the Olyslager type ID from a TecDoc ID**

Returns an XML-message with one or more encrypted type ID's from a TecDoc type ID

Method	: TD2TypeID
Request Parameters	: UserName
	: Password
	: TDID
Result	: XML message with one or more encrypted Olyslager type IDs with a short vehicle description.

Note: One TecDoc ID can result in several Olyslager type IDs. The amount of results is mentioned in the node <numrecords>

- **Get the Olyslager type ID from a TecDoc ID using Product Database Code**

Returns an XML-message with one or more encrypted type IDs from a TecDoc type ID, available within the DatabaseCode specified database

Method	: TD2TypeIDUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: TDID
	: LanguageISO3
	: DatabaseCode*
Result	: XML message with one or more encrypted Olyslager type IDs with a short vehicle description.

Note: One TecDoc ID can result in several Olyslager type IDs. The amount of results is mentioned in the node <numrecords>

**) The DatabaseCode is provided by Olyslager and links to a specific product database*

7. Images

- **Get the *Base64 Make image string* from an Olyslager make ID**

Returns an XML-message with a Base64 string containing the make image

Method	: GetMakeImage
Request Parameters	: UserName
	: Password
	: MakeID
	: UseSmallIcon*
Result	: XML message with result information and Base64 string

*) **UseSmallIcon:**

True	: <i>small make icon size (20 x 20 pixels)</i>
False	: <i>normal make icon size (189 x 189 pixels)</i>

- **Get the *Base64 Model image string* from an Olyslager model ID**

Returns an XML-message with a Base64 string containing the model image

Method	: GetModellImage
Request Parameters	: UserName
	: Password
	: ModelID
Result	: XML message with result information and Base64 string with model image

- **Get the *Base64 Type image string* from an Olyslager type ID**

Returns an XML-message with a Base64 string containing the type image

Method	: GetTypeImage
Request Parameters	: UserName
	: Password
	: TypeID
Result	: XML message with result information and Base64 string with type image

- **Get the *Base64 Type image string* from an *Olyslager type ID* using *Product Database Code***

Returns an XML-message with a Base64 string containing the type image, available within the DatabaseCode specified database

Method	: GetTypeImageUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: TypeID
	: DatabaseCode*
Result	: XML message with result information and Base64 string with type image

*) The DatabaseCode is provided by Olyslager and links to a specific product database

- **Get *ALL Base64 Make image strings* from one category**

Returns an XML-message with a Base64 string containing the make images

Method	: GetAllMakeImages
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: UseSmallIcon*
Result	: XML message with result information and all Base64 image strings within the selected category

*) UseSmallIcon:

True	: small make icon size (20 x 20 pixels)
False	: normal make icon size (189 x 189 pixels)

- **Get ALL Base64 Make image strings from one category using Product Database Code**

Returns an XML-message with a Base64 string containing the make images, available within the DatabaseCode specified database

Method	: GetAllMakeImagesUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: LanguageISO3
	: CategoryID
	: UseSmallIcon*
	: DatabaseCode**
Result	: XML message with result information and all Base64 image strings within the selected category

*) **UseSmallIcon:**

True	: small make icon size (20 x 20 pixels)
False	: normal make icon size (189 x 189 pixels)

**) The DatabaseCode is provided by Olyslager and links to a specific product database

- **Get a list of Base64 images from 1 or more Olyslager make IDs**

Returns an XML-message with a list of Base64 strings containing the make images

Method	: GetImagesFromMake
Request Parameters	: UserName
	: Password
	: MakeIDs ¹
	: UseSmallMakeImage ²
Result	: XML message with result information and Base64 strings

¹) **MakeIDs:** This is an array of encrypted make IDs.

²) **UseSmallMakeImage:**

True	: small make image size (20 x 20 pixels)
False	: normal make image size (189 x 189 pixels)

NOTE: You can request images for up to 99 MakeIDs, more than that will return Result code 54 with description ParameterExceedsLimit.

- **Get a list of *Base64* images from 1 or more Olyslager make IDs using Product Database Code**

Returns an XML-message with a list of Base64 strings containing the make images, available within the DatabaseCode specified database

Method	: GetImagesFromMakeUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: MakeIDs ¹
	: UseSmallMakeImage ²
	: DatabaseCode ³
Result	: XML message with result information and Base64 strings

^{1MakeIDs: This is an array of encrypted make IDs.}

^{2UseSmallMakeImage:}

True : small make image size (20 x 20 pixels)

False : normal make image size (189 x 189 pixels)

^{3The DatabaseCode is provided by Olyslager and links to a specific product database}

NOTE: You can request images for up to 99 MakeIDs, more than that will return Result code 54 with description ParameterExceedsLimit.

- **Get a list of *Base64* images from 1 or more Olyslager model IDs**

Returns an XML-message with a list of Base64 strings containing the model images

Method	: GetImagesFromModel
Request Parameters	: UserName
	: Password
	: ModelIDs ¹
	: IncludeMakeImage ²
	: UseSmallMakeImage ³
Result	: XML message with result information and Base64 strings

^{1ModelIDs: This is an array of encrypted model IDs.}

^{2IncludeMakeImage: true or false. When set to true will also include make images for the requested models.}

^{3UseSmallMakeImage:}

True : small make image size (20 x 20 pixels)

False : normal make image size (189 x 189 pixels)

NOTE: You can request images for up to 99 ModelIDs, more than that will return Result code 54 with description ParameterExceedsLimit.

- *Get a list of **Base64 images** from 1 or more Olyslager **model IDs** using Product Database Code*

Returns an XML-message with a list of Base64 strings containing the model images, available within the DatabaseCode specified database

Method	: GetImagesFromModelUsingDatabaseCode
Request Parameters	: UserName
	: Password
	: ModelIDs ¹
	: IncludeMakeImage ²
	: UseSmallMakeImage ³
	: DatabaseCode ⁴
Result	: XML message with result information and Base64 strings

^{1ModelIDs: This is an array of encrypted model IDs.}

^{2IncludeMakeImage: true or false. When set to true will also include make images for the requested models.}

^{3UseSmallMakeImage:}

True : small make image size (20 x 20 pixels)

False : normal make image size (189 x 189 pixels)

⁴

NOTE: You can request images for up to 99 ModelIDs, more than that will return Result code 54 with description ParameterExceedsLimit.

- **Get a list of *Base64 images* from 1 or more *Olyslager type IDs***

Returns an XML-message with a list of Base64 strings containing the type images

Method	: GetImagesFromType
Request Parameters	: UserName
	: Password
	: TypeIDs ¹
	: IncludeMakeImage ²
	: UseSmallMakeImage ³
	: IncludeModelImage ⁴
Result	: XML message with result information and Base64 strings

^{1TypeIDs: This is an array of encrypted type IDs.}

^{2IncludeMakeImage: true or false. When set to true will also include make images for the requested types.}

^{3UseSmallMakeImage:}

True : *small make image size (20 x 20 pixels)*

False : *normal make image size (189 x 189 pixels)*

^{4IncludeModelImage: true or false. When set to true will also include model images for the requested types.}

NOTE: You can request images for up to 99 TypeIDs, more than that will return Result code 54 with description ParameterExceedsLimit.

- *Get a list of **Base64 images** from 1 or more Olyslager **type IDs** using Product Database Code*

Returns an XML-message with a list of Base64 strings containing the type images, available within the DatabaseCode specified database

Method	: GetImagesFromTypeUsingDatabaseCode
Request Parameters	: Username
	: Password
	: TypeIDs ¹
	: IncludeMakeImage ²
	: UseSmallMakeImage ³
	: IncludeModelImage ⁴
	: DatabaseCode ⁵
Result	: XML message with result information and Base64 strings

^{1TypeIDs: This is an array of encrypted type IDs.}

^{2IncludeMakeImage: true or false. When set to true will also include make images for the requested types.}

^{3UseSmallMakeImage:}

True : small make image size (20 x 20 pixels)

False : normal make image size (189 x 189 pixels)

^{4IncludeModelImage: true or false. When set to true will also include model images for the requested types.}

^{5The DatabaseCode is provided by Olyslager and links to a specific product database}

NOTE: You can request images for up to 99 TypeIDs, more than that will return Result code 54 with description ParameterExceedsLimit.

Example for a request using SOAP:

The following is a sample SOAP 1.2 request and response. The placeholders shown need to be replaced with actual values.

```
POST /Website/RecommendationService.asmx HTTP/1.1
Host: localhost
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <TypeID2Recommendation xmlns="https://olyslager-customerAPI.lubricantinformation.com">
      <UserName>string</UserName>
      <Password>string</Password>
      <LanguageCode>string</LanguageCode>
      <Type>string</Type>
    </TypeID2Recommendation>
  </soap12:Body>
</soap12:Envelope>
```

```
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <TypeID2RecommendationResponse xmlns="https://olyslager-customerAPI.lubricantinformation.com">
      <TypeID2RecommendationResult>xml</TypeID2RecommendationResult>
    </TypeID2RecommendationResponse>
  </soap12:Body>
</soap12:Envelope>
```

Example for a request using C#:

1. Add the webservice to the project
2. Call the webservice method, example:

Requesting a category list:

```
using [name webservice];

CustomerAPI service = new CustomerAPI();
XmlNode xNode = service.GetCategoryList(username, password, "UK");
```

Requesting a recommendation from an encrypted type ID:

```
using [name webservice];

CustomerAPI service = new CustomerAPI();
XmlNode xNode = service.TypeID2Recommendation(username, password, "UK",
"067d2dc0a3f73b333e3ab8aed69ddbfb");
```

Example for a recommendation-request using php:

```
<?php

$url = "http://[service name].lubricantinformation.com";
$username = "username";
$password = "password";
$country = "country code";
$typeid = "Olyslager type id";

$request =
'<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <TypeID2Recommendation xmlns="https://olyslager-customerAPI.lubricantinformation.com">
      <UserName>'. $username. '</UserName>
      <Password>'. $password. '</Password>
      <CountryCode>'. $country. '</CountryCode>
      <Type>'. $typeid. '</Type>
    </TypeID2Recommendation>
  </soap12:Body>
</soap12:Envelope>';

$response = post_url($url, $request);
print_r($response);

function post_url($url, $data) {

    $asmx = "/RecommendationService.asmx";
    $headers = array(
        "POST /RecommendationService.asmx HTTP/1.1",
        "Host: ".str_replace(array('http://', 'https://'), '', $url),
        "Content-type: application/soap+xml; charset=utf-8",
        "Content-length: ".strlen($data),
    );
    $ch = curl_init ();
    curl_setopt ( $ch, CURLOPT_URL, $url.$asmx );
    curl_setopt ( $ch, CURLOPT_RETURNTRANSFER, 1 );
    curl_setopt ( $ch, CURLOPT_TIMEOUT, 30 );
    curl_setopt ( $ch, CURLOPT_HTTPHEADER, $headers );
    curl_setopt ( $ch, CURLOPT_POST, 1 );
    curl_setopt ( $ch, CURLOPT_POSTFIELDS, $data );
    $xmlResponse = curl_exec ( $ch );
    curl_close($ch);
    return $xmlResponse;
}
?>
```

XML-Output *structure** for the *TypeID2Recommendation* request:

```
<?xml version="1.0" encoding="utf-8"?>
<ctmessage>

  <status>
    <resultcode>integer</resultcode>
    <resultdescription>string</resultdescription>
    <server>string</server>
  </status>

  <vehicle>
    <make name="string" />
    <model name="string" />
    <type name="string" />
    <yearrange name="string" />
  </vehicle>

  <advice>
    <brandrange id="integer">
      <component name="string" code="string">
        <number>integer</number>
        <apporder>integer</apporder>

        <capacities>
          <capacity>string</capacity>
          ... (capacities)
        </capacities>

        <use name="string">
          <intervals>
            <interval>string</interval>
            ... (intervals)
          </intervals>

          <product number="integer" apporder="integer" productcode="integer" name="string" id="integer"/>
          ... (products)
        </use>
        ... (uses)
      </component>
      ... (components)
    </brandrange>
  </advice>
</ctmessage>
```

*) The exact composition of the XML-return message can vary, as this depends on several settings, like the use of brand ranges, the maximum of shown products, the amount of components included (i.e. only engine oils), etc. :

XML-Output *example* for a vehicle list:

```
<ctmessage>
  <status>
    <resultcode>1</resultcode>
    <resultdescription>OK</resultdescription>
    <server>olyslager-customerAPI.lubricantinformatoin.com</server>
  </status>
  <ctdata numresultsets="1">
    <resultset name="TD2TypeID" numrecords="2">
      <TD2TypeID id="31858ab84e6dbdf529382a8c34f3307f" result="Cars - Volkswagen (VW) - Golf III 2.0 GTI (1991-1992)" />
      <TD2TypeID id="f8e5bbd5688e733fa0bbcc60e4ddac05" result="Cars - Volkswagen (VW) - Golf III 1.4 (1992-1995)" />
    </resultset>
  </ctdata>
</ctmessage>
```

XML-Output example for aTypeID2Recommendation request:

```
<?xml version="1.0" encoding="utf-8"?>
<ctmessage>
  <status>
    <resultcode>1</resultcode>
    <resultdescription>OK</resultdescription>
    <server>[service name].lubricantinformatie.com</server>
  </status>
  <vehicle>
    <make name="Renault" />
    <model name="Clio III" />
    <type name="Clio III 1.4 16V" />
    <yearrange name="2005 - 2009" />
  </vehicle>
  <advice>
    <brandrange id="1">
      <component name="Engine" code="K4J">
        <number>1</number>
        <apporder>1</apporder>
        <capacities>
          <capacity>Capacity 5 litre</capacity>
          <capacity>Filter capacity 0,1 litre</capacity>
        </capacities>
        <use name="Normal">
          <intervals>
            <interval>Change 30000 km / 12 months</interval>
          </intervals>
          <product number="1" apporder="1" productcode="20125" name="product name" id="26" />
          <product number="2" apporder="3" productcode="20067" name="product name" id="188" />
        </use>
        <use name="Severe">
          <intervals>
            <interval>Change 15000 km / 6 months</interval>
          </intervals>
          <product number="1" apporder="1" productcode="20125" name="product name" id="26" />
          <product number="2" apporder="3" productcode="20067" name="product name" id="188" />
        </use>
      </component>
      <component name="Transaxle, manual" code="JH3 5/1">
        <number>2</number>
        <apporder>3</apporder>
        <capacities>
          <capacity>Capacity 2,8 litre</capacity>
        </capacities>
        <use name="Normal">
          <intervals />
          <product number="1" apporder="1" productcode="" name="On request" id="99999" />
        </use>
      </component>
      <component name="Hydraulic brakes/clutch system" code="">
        <number>3</number>
        <apporder>5</apporder>
        <capacities />
        <use name="Normal">
          <intervals>
            <interval>Check 30000 km / 12 months</interval>
            <interval>Change 120000 km / 48 months</interval>
          </intervals>
          <product number="1" apporder="109" productcode="25114" name="product name" id="86" />
        </use>
      </component>
      <component name="Cooling system" code="">
        <number>4</number>
        <apporder>8</apporder>
        <capacities>
          <capacity>Capacity 5,5 litre</capacity>
        </capacities>
        <use name="Normal">
          <intervals>
            <interval>Check 30000 km / 12 months</interval>
            <interval>Change 120000 km / 48 months</interval>
          </intervals>
          <product number="1" apporder="104" productcode="21033" name="product name" id="71" />
          <product number="2" apporder="105" productcode="21014" name="product name" id="69" />
        </use>
      </component>
    </brandrange>
  </advice>
</ctmessage>
```

Result codes and result descriptions:

Code	Description	
0	NotSet	
1	OK	
2	NoUserName	
3	NoPassword	
4	NoAccess	
5	NoIP	
6	IPNotAllowed	
7	UserLocked	
8	NoCountry	
9	CountryNotAllowed	
10	CountryUnavailable	
11	NoPlate	
12	ModuleLocked	
13	KTypToTypeIDFailed	
14	A2SPServiceDown	
15	A2SPServiceRequestError	
16	A2SPOverComplete	
17	LicensePlateNotFound	
18	A2SPServerError	
19	NotYetImplemented	
20	UnknownError	
21	PlateNotFound	obsolete
22	LisToKTypIDFailed	
23	KBAKeyNotFound	
24	LanguageUnavailable	
25	NoRecommendationFound	
26	NoModelOrTypeFound	
27	TypeIDIllegal	
28-39	Not applicable	
40	NoCategoriesFound	
41	InternalDataReadError	
42	CategoryNotAllowed	
43	SearchTextTooShort	
44	LicensePlateEmpty	
45	ImageNotFound	
46	EmptyParameter	
47	CountryOrCategoryNotAllowed	
48	NoProductsFound	
49	InvalidAllowedCategoryList	
50	ConfigurationError	
51	UnknownDataset	
52	TooManyCharacters	
53	NoSearchResults	
54	ParameterExceedsLimit	
55	NoComponentFound	

Available language codes and name*:

The list of available languages is regularly expanded. Contact Olyslager for an updated list.

Language Code ISO3	Name English	Name International
BOS	Bosnian	Bosanski jezik
POR	Brazilian Portuguese	Português brasileiro
BUL	Bulgarian	Български
ZHO	Chinese	中文
HRV	Croatian	Hrvatski jezik
CES	Czech	Česky
DAN	Danish	Dansk
NLD	Dutch	Nederlands
ENG	English	English
EST	Estonian	Eesti
FIN	Finnish	Suomi
FRA	French	Français
DEU	German	Deutsch
ELL	Greek	ελληνικά
HUN	Hungarian	Magyar
ISL	Icelandic	Íslenska
ITA	Italian	Italiano
JPN	Japanese	日本語 Nihongo
LAV	Latvian	Latvija
LIT	Lithuanian	Lietuva
NOR	Norwegian	Norsk
POL	Polish	Polski
POR	Portuguese	Português
RON	Romanian	Română
RUS	Russian	Русский язык
SRP	Serbian	Српски jezik
SLK	Slovak	Slovensko
SLV	Slovenian	Slovenščina
SPA	Spanish	Español
SWE	Swedish	Svenska
THA	Thai	ภาษาไทย
TUR	Turkish	Türkçe
UKR	Ukrainian	Український

**) list available with the correct subscription.*

Available country codes and names*:

The list of available countries is regularly expanded. Contact Olyslager for an updated list.

Country Code ISO3	Name English	Name International
DNK	Denmark	Danmark
NLD	The Netherlands	Nederland
GBR	Great Britain	Great Britain
IRL	Ireland	Éire
FIN	Finland	Suomen
FRA	France	France
DEU	Germany	Deutschland
NOR	Norway	Norge
SWE	Sweden	Sverige
CHE	Switzerland	Swiss
ESP	Spain	España
USA	United states of America	United states of America

Available states:

State Code	Full Name	State Code	Full Name
AL	Alabama	MT	Montana
AK	Alaska	NE	Nebraska
AZ	Arizona	NV	Nevada
AR	Arkansas	NH	New Hampshire
CA	California	NJ	New Jersey
CO	Colorado	NM	New Mexico
CT	Connecticut	NY	New York
DE	Delaware	NC	North Carolina
FL	Florida	ND	North Dakota
GA	Georgia	OH	Ohio
HI	Hawaii	OK	Oklahoma
ID	Idaho	OR	Oregon
IL	Illinois	PA	Pennsylvania
IN	Indiana	RI	Rhode Island
IA	Iowa	SC	South Carolina
KS	Kansas	SD	South Dakota
KY	Kentucky	TN	Tennessee
LA	Louisiana	TX	Texas
ME	Maine	UT	Utah
MD	Maryland	VT	Vermont
MA	Massachusetts	VA	Virginia
MI	Michigan	WA	Washington
MN	Minnesota	WV	West Virginia
MS	Mississippi	WI	Wisconsin
MO	Missouri	WY	Wyoming