



BLIKSUND

API Service Programming Guide Crash Recovery System (CRS)

Version: July 2025

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Introduction

The Bliksund API Service is a API service that provides programmatic access to read Bliksund Crash Recovery System vehicle information, vehicle graphics and more. The Bliksund API Service identifies Bliksund applications and users using a license code; requests and responses are available in JSON and XML.

With the Bliksund API Service it is possible for system integrators to integrate certain Crash Recovery System (CRS) functionality in their own application. Because the Bliksund API works with HTTP-request and sending HTTP-responses, it is platform independent. An internet connection is required for the clients to make use of the Bliksund API Service.

1. Overview

1.1 Development requirements

To integrate the Bliksund API Service in your client application, make sure the following requirements are satisfied:

- Internet connection.
- A development framework, like .NET Framework, with the possibility to create HTTP-clients for sending HTTP-requests and receiving HTTP-response respectively.
- Allow access to <https://prod.crashrecoveryssystem.com> via port 443 (HTTPS).

1.2 Authentication and Authorisation

We require applications to authenticate all of their request with a license code or identification number. With the license code or identification number it allows us to prevent abusive behaviour. It also helps us to understand how the applications are using the API as we continue to evolve the platform.

The Bliksund API Service is also protected via basic authentication. To authenticate, extra HTTP-headers are needed. Make sure the header is included in the HTTP-client with the key/value (user_name and password provided by Bliksund):

Key: basic

Value (base64 Encoding): <user_name>:<password>

Both ID-code and the account for basic authentication are unique for every customer. Therefor, you must send a request to us to get this information.

To get the unique ID-code for the customer, send a request to crsadministration@bliksund.com.

If you need an account for basic authentication, send a request to crs.development@bliksund.com.

For easier and quick processing of the request, send for both type of requests the name of the customer and the appropriate licence code within the message.

1.3 Feedback

If you have any problems with using the API, please feel free to contact us at crs.support@bliksund.com.

2. Public API

The Bliksund API Service is a API service that provides programmatic access to read Bliksund Crash Recovery System vehicle information, vehicle graphics and more. The Bliksund API Service identifies Bliksund applications and users using a license code; requests and responses are available in JSON and XML.

If the headers Accept and Content-Type / Media-Type has the value “application/json”, Bliksund API Service will handle the request as a JSON-request and the reply will be in JSON-format as well.

To send the request via XML-format, the headers Accept and Content-Type / Media-Type has to have the value “text/xml”. The response will be in the XML-format.

2.1 Vehicle registration info API

The Vehicle registration info API is part of the Bliksund API Service. It allows you search for vehicle registration info by license plate / registration number or Vehicle Identification Number (VIN).

The vehicle registration info API will query the national register at realtime and matches the result(s) of the register with the database of Crash Recovery System if any.

Requesting the national register with a license plate is supported for the following countries:

- | | |
|-----------------------------------|-----------------|
| - Netherlands | - Belgium |
| - UK | - France |
| - Germany (German customers only) | - Spain |
| - Austria | - Italy |
| - Sweden | - Finland |
| - Norway | - Switzerland |
| - Denmark | - Australia |
| - USA | - Faroe Islands |
| - Liechtenstein | |

The following countries supports queries by VIN:

- USA
- Canada
- Germany (German customers only)
- Finland

2.1.1 How to request

Resource URL:

<https://prod.crashrecoveryssystem.com/ModitechAPIService/ModitechAPIService/>

Resource information:

URI / Method:	apiRequest
Request formats:	JSON, XML
HTTP method:	POST
Reponse formats	JSON, XML
Requires authentication?	Yes, via license code or identification number and basic authentication

Parameters vehicle registration info request

Name	Parent	Description
APIRequestType*	HeaderData	The type of API-request.
IDCode	HeaderData	The unique identifier of the Crash Recovery installation required for authorisation and authentication..
Language*	HeaderData	The language for localised messages (if any) in the reply and/or documents.
RequestInfo (Type: VehicleRegistrationInfoData Namespace: http://schemas.moditech.com/service)	APIRequestData	Contains information of the request.
VehicleRegistration	APIRequestData	Contains information about the vehicle to request.
RequestType*	VehicleRegistration	The type of vehicle request.
RegistrationNumber	VehicleRegistration	The license plate / registration number (License plate request) or VIN (VIN request)
Country*	VehicleRegistration	The country of the license plate / registration number or VIN.
USState*	VehicleRegistration	Abbreviation of the US state of the license plate / registration number. <i>Only required if the Country is set to USA and request type is set to license plate.</i>
DatabaseVersion	RequestInfo	Version number of the database. <i>Not required.</i>
SoftwareVersion	RequestInfo	Version number of the software. <i>Not required.</i>
Device	RequestInfo	The name of the device / computer. <i>Not required.</i>
OSVersion	RequestInfo	Name of the operating system. <i>Not required.</i>
GeneratePDF	RequestInfo	Set to true if an encrypted PDF must be generated of the matched CRS vehicle result(s), false if not.
ShowOEMID	RequestInfo	Optional parameter. Set to true if the OEM-ID of the vehicle must be included in the reply, false if not.

ShowFuelTypeList	RequestInfo	Optional parameter. Set to true if the fueltypecode from ExtraInfo should include comma-separated all fuels of the vehicle, and false if it should return one fuel by default.
------------------	-------------	--

* = see *Appendix A. Values for request* for valid the values.

Parameters vehicle registration info reply

Name	Parent	Description
Transaction	HeaderData	Unique transaction number of the request.
SystemErrorCode	FaultInfo	Indicates if an error has occurred during the request. Errorcode 0 indicates no error has occurred during the request.
SystemMessage	FaultInfo	Description of the error (<i>if available</i>).
SystemOperation	FaultInfo	The operation where the error has occurred (<i>if available</i>).
SystemReason	FaultInfo	The reason of the error (<i>if available</i>).
ReplyInfo (Type: VehicleRegistrationInfoAPIServiceReply Namespace: http://schemas.moditech.com/service)	APIReplyData	Contains information of the reply.
VehicleRegistration	ReplyInfo	Contains the information of the requested vehicle as sent to the service.
RequestType*	VehicleRegistration	The type of vehicle request.
RegistrationNumber	VehicleRegistration	The license plate / registration number (License plate request) or VIN (VIN request)
Country*	VehicleRegistration	The country of the license plate / registration number or VIN.



USState*	VehicleRegistration	Abbreviation of the US state of the license plate.
RequestStatus	ReplyInfo	Contains the status information of the request.
StatusCode**	RequestStatus	Code that indicates if the request was successful or not.
StatusDesc	RequestStatus	Description of the status code.
ExtCode**	RequestStatus	Extended status code.
ExtDesc	RequestStatus	Description of the extended status code.
RegistrationQuantity	ReplyInfo	Number of matches found in the national vehicle registration database. If a match is found, this value will be one (1) otherwise this value will be zero (0). However, in the USA it is possible that a owner has a license plate that is registered for one or more vehicles.
VehicleResults	ReplyInfo	List of matches found in the national vehicle registration database.
VehicleResult	VehicleResults	Individual vehicle registration match.

Parameters vehicle registration info reply (continued)

RegistrationDesc	VehicleResult	The description of the vehicle as stored in the national vehicle registration database.
CRSQuantity	VehicleResult	Number of matches found in the CRS database.
CRSStatus	VehicleResult	Contains CRS status information of the individual vehicle.
StatusCodeExt**	CRSStatus	Code that describes the status of the match found in the CRS database.
StatusDescription	CRSStatus	Description of the CRS status code.
ExtraInfo	VehicleResult	Contains extra information of the individual vehicle.

FuelTypeCode**	ExtraInfo	Indicates the type of fuel of the vehicle. If ShowFuelTypeList is true in requestInfo, it contains all vehicle fuel types comma-separated.
AlternativePropulsion	ExtraInfo	True if the individual vehicle has an alternative propulsion, false if not.
HasModelYearOverlap	ExtraInfo	True if the individual vehicle result has a model year overlap (more than one modelyear range), false if not.
CRSResults	VehicleResult	List of matches in the CRS database (if any).
CRSResult	CRSResults	Individual CRS match.
RecID	CRSResult	The unique CRS datasheet-ID. This ID is used to transmit to the user.
Description	CRSResult	The description of the result in the CRS database.
FileVersion	CRSResult	Version number of the CRS-file.
FileName	CRSResult	Name of the CRS-file.
GraphicOutputFile	CRSResult	The URL of the generated encrypted PDF if <i>GeneratePDF</i> is set to true in the request, otherwise this value will be empty.
CrsOemId	CRSResult	The OEM-ID of the vehicle. Only set if ShowOEMID is set to true and if an OEM-ID is available for the vehicle.

* = see *Appendix A. Values for request* for valid the values.

** = see *Appendix B. Values of reply* for the possible values.

2.1.2 Examples

2.1.2.1 JSON

License plate request without generating PDF

```
{
  "HeaderData":
  {
    "APIRequestType":0,
    "IDCode":"12345-12345-12345-12345-12345",
    "Language":2
  },
  "RequestInfo":
  {

    "__type":"VehicleRegistrationInfoData:http://schemas.moditech.com/service",
    "VehicleRegistration":
    {
      "RequestType":1,
      "RegistrationNumber":"PP654493",
      "Country":14,
      "USASState":null
    },
    "DatabaseVersion":"31-May-2016-01",
    "SoftwareVersion":"1.0.0.1",
    "Device":"W10-DEV-VM02",
    "OSVersion":"WINDOWS",
    "GeneratePDF":false,
    "ShowOEMDID":false
  }
}
```

License plate reply without generating PDF

```
{
  "HeaderData":
  {
    "Transaction":"d3a7eff81de74f6b9aa82cfd5064995b",
    "FaultInfo":
    {
      "SystemErrorCode":0,
      "SystemMessage":null,
      "SystemOperation":null,
      "SystemReason":null
    },
    "Time":"2016-09-23 11:15:58"
  },
  "ReplyInfo":
  {
    "__type":"VehicleRegistrationInfoAPIServiceReply:http://schemas.moditech.com/servi
ce",
    "VehicleRegistration":
    {
      "RequestType":1,
      "RegistrationNumber":"PP65493",
      "Country":14,
      "USASState":null
    },
    "RequestStatus":
    {
      "StatusCode":8,
      "StatusDesc":"Valid",
      "ExtCode":0,
      "ExtDesc":null
    },
    "RegistrationQuantity":1,
    "VehicleResults":
```



```
[
  {
    "RegistrationDesc":"DAIHATSU, TERIOS, STASJONSVOGN,
SVART, 24.08.2006, Bensin-drevet",
    "CRSQuantity":1,
    "CRSStatus":
    {
      "StatusCodeExt":0,
      "StatusDescription":"Valid CRS result (1).",
    },
    "ExtraInfo":
    {
      "FuelTypeCode":"B",
      "AlternativePropulsion":false,
      "HasModelYearOverlap":false
    },
    "CRSResults":
    [
      {
        "RecID":26962,
        "Description":"Daihatsu - Terios - 1.5 DVVT -
5dr off-road - 2006-2012",
        "FileVersion":"1.9",
        "FileName":"DA_06_05_00002",
        "GraphicOutputFile":null
      }
    ]
  }
]
```



License plate request with generating PDF

```
{
  "HeaderData":
  {
    "APIRequestType":0,
    "IDCode":"12345-12345-12345-12345-12345",
    "Language":2
  },
  "RequestInfo":
  {

    "__type":"VehicleRegistrationInfoData:http://schemas.moditech.com/service",
    "VehicleRegistration":
    {
      "RequestType":1,
      "RegistrationNumber":"PP654493",
      "Country":14,
      "USASState":null
    },
    "DatabaseVersion":"31-May-2016-01",
    "SoftwareVersion":"1.0.0.1",
    "Device":"W10-DEV-VM02",
    "OSVersion":"WINDOWS",
    "GeneratePDF":true,
    "ShowOEMDID":false
  }
}
```



License plate reply with generated PDF(s)

```
{
  "HeaderData":
  {
    "Transaction":"d3a7eff81de74f6b9aa82cfd5064995b",
    "FaultInfo":
    {
      "SystemErrorCode":0,
      "SystemMessage":null,
      "SystemOperation":null,
      "SystemReason":null
    },
    "Time":"2016-09-23 11:15:58"
  },
  "ReplyInfo":
  {
    "__type":"VehicleRegistrationInfoAPIServiceReply:http://schemas.moditech.com/service",
    "VehicleRegistration":
    {
      "RequestType":1,
      "RegistrationNumber":"PP65493",
      "Country":14,
      "USASState":null
    },
    "RequestStatus":
    {
      "StatusCode":8,
      "StatusDesc":"Valid",
      "ExtCode":0,
      "ExtDesc":null
    },
    "RegistrationQuantity":1,
    "VehicleResults":
    [
      {
        "RegistrationDesc":"DAIHATSU, TERIOS, STASJONSVOGN,
SVART, 24.08.2006, Bensin-drevet",
        "CRSQuantity":1,
        "CRSStatus":
        {
          "StatusCodeExt":0,
          "StatusDescription":"Valid CRS result (1).",
        },
        "ExtraInfo":
        {
          "FuelTypeCode":"B",
```



```
        "AlternativePropulsion":false,
        "HasModelYearOverlap":false
    },
    "CRSResults":
    [
        {
            "RecID":26962,
            "Description":"Daihatsu - Terios - 1.5 DVVT -
5dr off-road - 2006-2012",
            "FileVersion":"1.9",
            "FileName":"DA_06_05_00002",

            "GraphicOutputFile":"https://dev.crashrecoverysystem.com/Output/16e3f
9728da8c90347f8d539a30f1385ee3c8358/print-250277.pdf"
        }
    ]
}
}
```

VIN request without generating PDF

```
{
  "HeaderData":
  {
    "APIRequestType":0,
    "IDCode":"12345-12345-12345-12345",
    "Language":2
  },
  "RequestInfo":
  {

    "__type":"VehicleRegistrationInfoData:http://schemas.moditech.com/service",
    "VehicleRegistration":
    {
      "RequestType":2,
      "RegistrationNumber":"1FMYU96H15KE18244",
      "Country":1,
      "USASState":null
    },
    "DatabaseVersion":"31-May-2016-01",
    "SoftwareVersion":"1.0.0.1",
    "Device":"W10-DEV-VM02",
    "OSVersion":"WINDOWS",
    "GeneratePDF":false,
    "ShowOEMDID":false
  }
}
```



VIN reply without generating PDF

```
{
  "HeaderData":
  {
    "Transaction":"6db7bee4ecda4560adfb2153a0ac15db",
    "FaultInfo":
    {
      "SystemErrorCode":0,
      "SystemMessage":null,
      "SystemOperation":null,
      "SystemReason":null
    },
    "Time":"2016-09-23 11:55:15"
  },
  "ReplyInfo":
  {
    "__type":"VehicleRegistrationInfoAPIServiceReply:http://schemas.moditech.com/service",
    "VehicleRegistration":
    {
      "RequestType":2,
      "RegistrationNumber":"1FMYU96H15KE18244",
      "Country":3,
      "USASState":null
    },
    "RequestStatus":
    {
      "StatusCode":8,
      "StatusDesc":"Valid",
      "ExtCode":0,
      "ExtDesc":null
    },
    "RegistrationQuantity":1,
    "VehicleResults":
    [
      {
        "RegistrationDesc":"FORD, ESCAPE HEV 2.3L I4 4WD, SPORT
        UTILITY VEHICLE, 2005, Hybrid NiMH (330V)",
        "CRSQuantity":1,
        "CRSStatus":
        {
          "StatusCodeExt":0,
          "StatusDescription":"Valid CRS result (1).",
        },
        "ExtraInfo":
```



```
{
  "FuelTypeCode":"E",
  "AlternativePropulsion":true,
  "HasModelYearOverlap":false
},
"CRSResults":
[
  {
    "RecID":25189,
    "Description":"Ford - Escape Hybrid - 2.3 - 5dr
SUV - 2005-2007",
    "FileVersion":"1.12",
    "FileName":"FO_05_12_00094",
    "GraphicOutputFile":null
  }
]
}
```

VIN request with generating PDF

```
{
  "HeaderData":
  {
    "APIRequestType":0,
    "IDCode":"12345-12345-12345-12345-12345",
    "Language":2
  },
  "RequestInfo":
  {
    "__type":"VehicleRegistrationInfoData:http://schemas.moditech.com/service",
    "VehicleRegistration":
    {
      "RequestType":2,
      "RegistrationNumber":"1FMYU96H15KE18244",
      "Country":1,
      "USASState":null
    },
    "DatabaseVersion":"31-May-2016-01",
    "SoftwareVersion":"1.0.0.1",
    "Device":"W10-DEV-VM02",
    "OSVersion":"WINDOWS",
    "GeneratePDF":true,
    "ShowOEMDID":false
  }
}
```



```
}
```

VIN reply with generated PDF(s)

```
{
  "HeaderData":
  {
    "Transaction":"6db7bee4ecda4560adfb2153a0ac15db",
    "FaultInfo":
    {
      "SystemErrorCode":0,
      "SystemMessage":null,
      "SystemOperation":null,
      "SystemReason":null
    },
    "Time":"2016-09-23 11:55:15"
  },
  "ReplyInfo":
  {
    "__type":"VehicleRegistrationInfoAPIServiceReply:http://schemas.moditech.com/servi
ce",
    "VehicleRegistration":
    {
      "RequestType":2,
      "RegistrationNumber":"1FMYU96H15KE18244",
      "Country":3,
      "USASState":null
    },
    "RequestStatus":
    {
      "StatusCode":8,
      "StatusDesc":"Valid",
      "ExtCode":0,
      "ExtDesc":null
    },
    "RegistrationQuantity":1,
    "VehicleResults":
    [
      {
        "RegistrationDesc":"FORD, ESCAPE HEV 2.3L I4 4WD, SPORT
UTILITY VEHICLE, 2005, Hybrid NiMH (330V)",
        "CRSQuantity":1,
        "CRSStatus":
        {
          "StatusCodeExt":0,
          "StatusDescription":"Valid CRS result (1).",
        },
      },
    ]
  }
}
```



```
    "ExtraInfo":
    {
        "FuelTypeCode":"E",
        "AlternativePropulsion":true,
        "HasModelYearOverlap":false
    },
    "CRSResults":
    [
        {
            "RecID":25189,
            "Description":"Ford - Escape Hybrid - 2.3 - 5dr
SUV - 2005-2007",
            "FileVersion":"1.12",
            "FileName":"FO_05_12_00094",
            "GraphicOutputFile":"https://dev.crashrecoverysystem.com/Output/3cb26
b6023b3f2a722f59e35b7ad826a56821bd4/print-252877.pdf"
        }
    ]
}
}
```



2.1.2.2 XML

License plate request without generating PDF

```
<?xml version="1.0" encoding="utf-8"?>
<APIRequestData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.moditech.com/service">
  <HeaderData>
    <APIRequestType>0</APIRequestType>
    <IDCode>12345-12345-12345-12345-12345</IDCode>
    <Language>2</Language>
  </HeaderData>
  <RequestInfo xsi:type="VehicleRegistrationInfoData">
    <VehicleRegistration>
      <RequestType>1</RequestType>
      <RegistrationNumber>PP65493</RegistrationNumber>
      <Country>14</Country>
      <USASState/>
    </VehicleRegistration>
    <DatabaseVersion>31-May-2016-01</DatabaseVersion>
    <SoftwareVersion>1.0.0.1</SoftwareVersion>
    <Device>W10-DEV-VM02</Device>
    <OSVersion>WINDOWS</OSVersion>
    <GeneratePDF>>false</GeneratePDF>
  <ShowOEMID>>false</ShowOEMID>
</RequestInfo>
</APIRequestData>
```



License plate reply without generated PDF

```
<?xml version="1.0" encoding="utf-8"?>
<APIReplyData xmlns="http://schemas.moditech.com/service"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <HeaderData>
    <Transaction>4e822bbda8ba4fc4acfd0a74038eb766</Transaction>
    <FaultInfo>
      <SystemErrorCode>0</SystemErrorCode>
      <SystemMessage i:nil="true"/>
      <SystemOperation i:nil="true"/>
      <SystemReason i:nil="true"/>
    </FaultInfo>
    <Time>2016-09-23 12:20:12</Time>
  </HeaderData>
  <ReplyInfo i:type="VehicleRegistrationInfoAPIServiceReply">
    <VehicleRegistration>
      <RequestType>1</RequestType>
      <RegistrationNumber>PP65493</RegistrationNumber>
      <Country>14</Country>
      <USASState/>
    </VehicleRegistration>
    <RequestStatus>
      <StatusCode>8</StatusCode>
      <StatusDesc>Valid</StatusDesc>
      <ExtCode>0</ExtCode>
      <ExtDesc i:nil="true"/>
    </RequestStatus>
    <RegistrationQuantity>1</RegistrationQuantity>
    <VehicleResults>
      <VehicleResult>
        <RegistrationDesc>DAIHATSU, TERIOS, STASJONSVOGN,
SVART, 24.08.2006, Bensin-drevet</RegistrationDesc>
        <CRSQuantity>1</CRSQuantity>
        <CRSStatus>
          <StatusCodeExt>0</StatusCodeExt>
          <StatusDescription>Valid CRS result
(1).</StatusDescription>
        </CRSStatus>
        <ExtraInfo>
          <FuelTypeCode>B</FuelTypeCode>
          <AlternativePropulsion>false</AlternativePropulsion>
        </ExtraInfo>
      </VehicleResult>
    </VehicleResults>
    <HasModelYearOverlap>false</HasModelYearOverlap>
  </ReplyInfo>
</APIReplyData>
```

```

                                <CRSResult>
                                  <RecID>26962</RecID>
                                  <Description>Daihatsu - Terios - 1.5 DVVT - 5dr
off-road - 2006-2012</Description>
                                  <FileVersion>1.9</FileVersion>
                                  <FileName>DA_06_05_00002</FileName>
                                  <GraphicOutputFile i:nil="true"/>
                                </CRSResult>
                              </CRSResults>
                            </VehicleResult>
                          </VehicleResults>
                        </ReplyInfo>
</APIReplyData>
```



License plate request with generating PDF

```
<?xml version="1.0" encoding="utf-8"?>
<APIRequestData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.moditech.com/service">
  <HeaderData>
    <APIRequestType>0</APIRequestType>
    <IDCode>12345-12345-12345-12345-12345</IDCode>
    <Language>2</Language>
  </HeaderData>
  <RequestInfo xsi:type="VehicleRegistrationInfoData">
    <VehicleRegistration>
      <RequestType>1</RequestType>
      <RegistrationNumber>PP65493</RegistrationNumber>
      <Country>14</Country>
      <USASState/>
    </VehicleRegistration>
    <DatabaseVersion>31-May-2016-01</DatabaseVersion>
    <SoftwareVersion>1.0.0.1</SoftwareVersion>
    <Device>W10-DEV-VM02</Device>
    <OSVersion>WINDOWS</OSVersion>
    <GeneratePDF>true</GeneratePDF>
  <ShowOEMID>>false</ShowOEMID>
</RequestInfo>
</APIRequestData>
```



License plate reply with generated PDF(s)

```
<?xml version="1.0" encoding="utf-8"?>
<APIReplyData xmlns="http://schemas.moditech.com/service"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <HeaderData>
    <Transaction>4e822bbda8ba4fc4acfd0a74038eb766</Transaction>
    <FaultInfo>
      <SystemErrorCode>0</SystemErrorCode>
      <SystemMessage i:nil="true"/>
      <SystemOperation i:nil="true"/>
      <SystemReason i:nil="true"/>
    </FaultInfo>
    <Time>2016-09-23 12:20:12</Time>
  </HeaderData>
  <ReplyInfo i:type="VehicleRegistrationInfoAPIServiceReply">
    <VehicleRegistration>
      <RequestType>1</RequestType>
      <RegistrationNumber>PP65493</RegistrationNumber>
      <Country>14</Country>
      <USASState/>
    </VehicleRegistration>
    <RequestStatus>
      <StatusCode>8</StatusCode>
      <StatusDesc>Valid</StatusDesc>
      <ExtCode>0</ExtCode>
      <ExtDesc i:nil="true"/>
    </RequestStatus>
    <RegistrationQuantity>1</RegistrationQuantity>
    <VehicleResults>
      <VehicleResult>
        <RegistrationDesc>DAIHATSU, TERIOS, STASJONSVOGN,
SVART, 24.08.2006, Bensin-drevet</RegistrationDesc>
        <CRSQuantity>1</CRSQuantity>
        <CRSStatus>
          <StatusCodeExt>0</StatusCodeExt>
          <StatusDescription>Valid CRS result
(1).</StatusDescription>
        </CRSStatus>
        <ExtraInfo>
          <FuelTypeCode>B</FuelTypeCode>
          <AlternativePropulsion>>false</AlternativePropulsion>
        </ExtraInfo>
      </VehicleResult>
    </VehicleResults>
    <HasModelYearOverlap>>false</HasModelYearOverlap>
    </ExtraInfo>
    <CRSResults>
      <CRSResult>
        <RecID>26962</RecID>
      </CRSResult>
    </CRSResults>
  </ReplyInfo>
</APIReplyData>
```

```
off-road - 2006-2012</Description>
<Description>Daihatsu - Terios - 1.5 DVVT - 5dr
<FileVersion>1.9</FileVersion>
<FileName>DA_06_05_00002</FileName>
  <GraphicOutputFile>
    https://dev.crashrecoveryssystem.com/Output/16e3f9728da8c90347f8d539a3
    0f1385ee3c8358/print-250277.pdf</GraphicOutputFile>
  </CRSResult>
</CRSResults>
</VehicleResult>
</VehicleResults>
</ReplyInfo>
</APIReplyData>
```



VIN-request without generating PDF

```
<?xml version="1.0" encoding="utf-8"?>
<APIRequestData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.moditech.com/service">
  <HeaderData>
    <APIRequestType>0</APIRequestType>
    <IDCode>12345-12345-12345-12345-12345</IDCode>
    <Language>2</Language>
  </HeaderData>
  <RequestInfo xsi:type="VehicleRegistrationInfoData">
    <VehicleRegistration>
      <RequestType>2</RequestType>
      <RegistrationNumber>1FMYU96H15KE18244</RegistrationNumber>
      <Country>3</Country>
      <USASState/>
    </VehicleRegistration>
    <DatabaseVersion>31-May-2016-01</DatabaseVersion>
    <SoftwareVersion>1.0.0.1</SoftwareVersion>
    <Device>W10-DEV-VM02</Device>
    <OSVersion>WINDOWS</OSVersion>
    <GeneratePDF>false</GeneratePDF>
  <ShowOEMID>false</ShowOEMID>
</RequestInfo>
</APIRequestData>
```



VIN-reply without generating PDF

```
<?xml version="1.0" encoding="utf-8"?>
<APIReplyData xmlns="http://schemas.moditech.com/service"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <HeaderData>
    <Transaction>8b1d23d568de4996aa02db93ee90e540</Transaction>
    <FaultInfo>
      <SystemErrorCode>0</SystemErrorCode>
      <SystemMessage i:nil="true"/>
      <SystemOperation i:nil="true"/>
      <SystemReason i:nil="true"/>
    </FaultInfo>
    <Time>2016-09-23 13:15:02</Time>
  </HeaderData>
  <ReplyInfo i:type="VehicleRegistrationInfoAPIServiceReply">
    <VehicleRegistration>
      <RequestType>2</RequestType>
      <RegistrationNumber>1FMYU96H15KE18244</RegistrationNumber>
      <Country>3</Country>
      <USState/>
    </VehicleRegistration>
    <RequestStatus>
      <StatusCode>8</StatusCode>
      <StatusDesc>Valid</StatusDesc>
      <ExtCode>0</ExtCode>
      <ExtDesc i:nil="true"/>
    </RequestStatus>
    <RegistrationQuantity>1</RegistrationQuantity>
    <VehicleResults>
      <VehicleResult>
        <RegistrationDesc>FORD, ESCAPE HEV 2.3L I4 4WD, SPORT UTILITY
VEHICLE, 2005, Hybrid NiMH (330V)</RegistrationDesc>
        <CRSQuantity>1</CRSQuantity>
        <CRSStatus>
          <StatusCodeExt>0</StatusCodeExt>
          <StatusDescription>Valid CRS result (1).</StatusDescription>
        </CRSStatus>
        <ExtraInfo>
          <FuelTypeCode>E</FuelTypeCode>
          <AlternativePropulsion>true</AlternativePropulsion>
          <HasModelYearOverlap>false</HasModelYearOverlap>
        </ExtraInfo>
        <CRSResults>
          <CRSResult>
            <RecID>25189</RecID>
            <Description>Ford - Escape Hybrid - 2.3 - 5dr SUV -
2005-2007</Description>
          </CRSResult>
        </CRSResults>
      </VehicleResult>
    </VehicleResults>
  </ReplyInfo>
</APIReplyData>
<FileVersion>1.12</FileVersion>
```

```
<FileName>FO_05_12_00094</FileName>
<GraphicOutputFile i:nil="true"/>
</CRSResult>
</CRSResults>
</VehicleResult>
</VehicleResults>
</ReplyInfo>
</APIReplyData>
```



VIN-request with generating PDF

```
<?xml version="1.0" encoding="utf-8"?>
<APIRequestData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.moditech.com/service">
  <HeaderData>
    <APIRequestType>0</APIRequestType>
    <IDCode>12345-12345-12345-12345-12345</IDCode>
    <Language>2</Language>
  </HeaderData>
  <RequestInfo xsi:type="VehicleRegistrationInfoData">
    <VehicleRegistration>
      <RequestType>2</RequestType>
      <RegistrationNumber>1FMYU96H15KE18244</RegistrationNumber>
      <Country>3</Country>
      <USASState/>
    </VehicleRegistration>
    <DatabaseVersion>31-May-2016-01</DatabaseVersion>
    <SoftwareVersion>1.0.0.1</SoftwareVersion>
    <Device>W10-DEV-VM02</Device>
    <OSVersion>WINDOWS</OSVersion>
    <GeneratePDF>true</GeneratePDF>
  <ShowOEMID>>false</ShowOEMID>
</RequestInfo>
</APIRequestData>
```



VIN-reply with generated PDF(s)

```
<?xml version="1.0" encoding="utf-8"?>
<APIReplyData xmlns="http://schemas.moditech.com/service"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <HeaderData>
    <Transaction>8b1d23d568de4996aa02db93ee90e540</Transaction>
    <FaultInfo>
      <SystemErrorCode>0</SystemErrorCode>
      <SystemMessage i:nil="true"/>
      <SystemOperation i:nil="true"/>
      <SystemReason i:nil="true"/>
    </FaultInfo>
    <Time>2016-09-23 13:15:02</Time>
  </HeaderData>
  <ReplyInfo i:type="VehicleRegistrationInfoAPIServiceReply">
    <VehicleRegistration>
      <RequestType>2</RequestType>
      <RegistrationNumber>1FMYU96H15KE18244</RegistrationNumber>
      <Country>3</Country>
      <USState/>
    </VehicleRegistration>
    <RequestStatus>
      <StatusCode>8</StatusCode>
      <StatusDesc>Valid</StatusDesc>
      <ExtCode>0</ExtCode>
      <ExtDesc i:nil="true"/>
    </RequestStatus>
    <RegistrationQuantity>1</RegistrationQuantity>
    <VehicleResults>
      <VehicleResult>
        <RegistrationDesc>FORD, ESCAPE HEV 2.3L I4 4WD, SPORT UTILITY
VEHICLE, 2005, Hybrid NiMH (330V)</RegistrationDesc>
        <CRSQuantity>1</CRSQuantity>
        <CRSStatus>
          <StatusCodeExt>0</StatusCodeExt>
          <StatusDescription>Valid CRS result (1).</StatusDescription>
        </CRSStatus>
        <ExtraInfo>
          <FuelTypeCode>E</FuelTypeCode>
          <AlternativePropulsion>true</AlternativePropulsion>
          <HasModelYearOverlap>false</HasModelYearOverlap>
        </ExtraInfo>
        <CRSResults>
          <CRSResult>
            <RecID>25189</RecID>
            <Description>Ford - Escape Hybrid - 2.3 - 5dr SUV -
2005-2007</Description>
          </CRSResult>
        </CRSResults>
      </VehicleResult>
    </VehicleResults>
  </ReplyInfo>
</APIReplyData>
<FileVersion>1.12</FileVersion>
```

```
<FileName>FO_05_12_00094</FileName>

  <GraphicOutputFile>
    https://dev.crashrecoveryssystem.com/Output/3cb26b6023b3f2a722f59e35b7ad8
    26a56821bd4/print-252877.pdf</GraphicOutputFile>
  </CRSResult>
</CRSResults>
</VehicleResult>
</VehicleResults>
</ReplyInfo>
</APIReplyData>
```

APPENDIX

A. Values for request

APIRequestType

Name	Value
VehicleRegistrationInfo	0

RequestType

Name	Value
License plate	1
VIN	2

Language

Name	Value
Dutch	1
English	2
German	3
French	4
Spanish	5
Portuguese	6
Italian	7
Polish	8
Czech	9
Swedish	10
Danish	11
Norwegian	12
Finnish	13
Hungarian	14
Croatian	15
Hebrew	16
Slovenian	17
Russian	18
Arabic	19



Country

Name	Value
Netherlands (<i>license plate only</i>)	1
Belgium (<i>license plate only</i>)	2
USA (<i>license plate & VIN</i>)	3
UK (<i>license plate only</i>)	4
Germany (<i>license plate & VIN</i>)	5
France (<i>license plate only</i>)	6
Spain (<i>license plate only</i>)	7
Italy (<i>license plate only</i>)	9
Sweden (<i>license plate only</i>)	12
Denmark (<i>license plate only</i>)	13
Norway (<i>license plate only</i>)	14
Finland (<i>license plate & VIN</i>)	15
Switzerland (<i>license plate only</i>)	21
Canada (<i>VIN only</i>)	22
Australia (<i>license plate only</i>)	24
Liechtenstein (<i>license plate only</i>)	28
Austria (<i>license plate only</i>)	30
Faroe Islands (<i>license plate only</i>)	31

USASState

Name	Value
Alabama	AL
Alaska	AK
Arkansas	AR
Arizona	AZ
California	CA
Colorado	CO
Connecticut	CT
District of Columbia	DC
Delaware	DE
Florida	FL
Georgia	GA
Hawaii	HI
Iowa	IA
Idaho	ID
Illinois	IL
Indiana	IN
Kansas	KS
Kentucky	KY
Louisiana	LA
Massachusetts	MA

Maine	ME
Maryland	MD
Michigan	MI
Minnesota	MN
Missouri	MO
Mississippi	MS
Montana	MT
North Carolina	NC
North Dakota	ND
Nebraska	NE
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
Nevada	NV
New York	NY
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Puerto Rico	PR
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Virginia	VA
Vermont	VT
Washington	WA
Wisconsin	WI
West Virginia	WV
Wyoming	WY

B. Values of reply

RequestStatus – Status code

Name	Value
Request Successful	8
Request Failed	9

RequestStatus – Extcode (only if RequestStatus code is 9 (failed))

Name	Value
Invalid CRS license	2
Invalid license plate / registration format	3
Empty request message	5
Unknown result data provider	6
Data provider unavailable	8
Empty data provider result	9
Invalid registration state	19
Invalid registration country	20
License plate not released	21



FuelTypeCode

Name	Value
Petrol / gasoline	B
Diesel	D
Electric	E
LPG	G
CNG	H
Hydrogen	W
Alcohol	A
LNG	C

StatusCodeExt

Name	Value
Valid CRS result	0
Unknown CRS result	10
No useful match (too big)	11
Only models with all options	12
No safety features (too old)	13
Not in database (vehicle pending)	14

Document revision history

This table describes the changes to *Bliksund API Service Programming Guide*.

Version	Date	Notes
1.0	09-Jan-2017	First release of the guide covering the usage for requesting info via Bliksund API Service for dispatch centres.
1.1	22-May-2017	Included option to generate encrypted PDF datasheet.
11-Feb-2021	11-Feb-2021	Added information regarding to request for basic authentication and ID-code.
1,3	13-10-2022	Added request parameter to return fueltypecode as a comma-separated list if a vehicle has more fuel types.