

# TP/Diagnostics

## BLF Logging Format

## Specification

Version 1.0 of 2016-01-28

<b>Status</b>	Completed
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## Document Management

### Release

#### Revision list

Version	Date	Editor	Section	Changes, comments
1.0	2016-01-28	Mar	All	Initial version created
1.0.1	2017-02-02	Mom	all	CI and layout

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## 1 Disclaimer

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## 2 Overview

This document specifies the format of transport protocol and diagnostics events in the CANoe/CANalyzer BLF logging. The described structures can be used to read and write BLF logging files using the binlog.dll, which can be found in the CANoe/CANalyzer User Data folder:

<UserDataFolder>\Programming\BLF\_Logging

## 3 Format Description

### 3.1 VBLDiagRequestInterpretation

For diagnostic requests sent by CANoe, the target ECU, the active diagnostic variant and the used diagnostic service are logged.

This information ensures that the request and response are interpreted correctly in CANoe.

Corresponding object type: BL\_OBJ\_TYPE\_DIAG\_REQUEST\_INTERPRETATION

*Object available starting from CANoe/CANalyzer version 9.0*

Parameter	Type	Description
mHeader	VBLObjectHeader	
mDiagDescriptionHandle	DWORD	Unique ID identifying the used diagnostic description (ECU)
mDiagVariantHandle	DWORD	Unique ID identifying the used diagnostic variant
mDiagServiceHandle	DWORD	Unique ID identifying the used diagnostic service
mEcuQualifierLength	DWORD	Length of mEcuQualifier without terminating null character.
mVariantQualifierLength	DWORD	Length of mVariantQualifier without terminating null character.
mServiceQualifierLength	DWORD	Length of mServiceQualifier without terminating null character.
mEcuQualifier	LPSTR	Qualifier of the ECU the request was sent to
mVariantQualifier	LPSTR	Qualifier of the active diagnostic variant
mServiceQualifier	LPSTR	Qualifier of the diagnostic service

**Note:** The size of a VBLDiagRequestInterpretation object depends on the length of the strings. To calculate the size correctly you have to add the text lengths (in bytes!) to the object size:

```
VBLDiagRequestInterpretation object;
object.mHeader.mBase.mObjectSize
= sizeof(VBLDiagRequestInterpretation)
+ object.mExecutingObjectNameLength
+ object.mNameLength
+ object.mTextLength;
```