

TP/Diagnostics

BLF Logging Format

Specification

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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
1.1	2020-02-07	vsn	3	Public API uses standard types, e.g. uint32_t instead of DWORD. Mentioned Linux libbinlog.so



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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, libbinlog.so, 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	Туре	Description
mHeader	VBLObjectH eader	
mDiagDescriptionHandle	uint32_t	Unique ID identifying the used diagnostic description (ECU)
mDiagVariantHandle	uint32_t	Unique ID identifying the used diagnostic variant
mDiagServiceHandle	uint32_t	Unique ID identifying the used diagnostic service
mEcuQualifierLength	uint32_t	Length of mEcuQualifier without terminating null character.
mVariantQualifierLength	uint32_t	Length of mVariantQualifier without terminating null character.
mServiceQualifierLength	uint32_t	Length of mServiceQualifier without terminating null character.
mEcuQualifier	BL_LPSTR	Qualifier of the ECU the request was sent to
mVariantQualifier	BL_LPSTR	Qualifier of the active diagnostic variant
mServiceQualifier	BL_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;