Facts & Figures

ISO 11898-3 confirmed

SO has confirmed the standard about the low-speed, fault-tolerant, medium-dependent interface for CAN. The automotive industry does not use transceivers compliant to this standard for new designs.





CiA has 29 members providing subsea equipment. Most of the host controllers and sensors, meters as well as valve devices comply with the CiA 443 profile. This specification will be systematically reviewed, soon. A motion to Draft Standard status for CiA 443 is intended.

CiA 418 CiA 419

The CANopen profiles for batteries and chargers are under review. There is still the opportunity to add new functions to these specifications. Several suppliers of battery-powered forklifts make use of them. Delta-Q (Taiwan) is one of the companies, which provide a CiA 419 compliant charger.

CAN XL logical link control

The LLC (logical link control) frame format has been specified. The field names have been harmonized. The "grey" fields are added by the LLC sub-layer. The upper layers provide the "green" fields (which is so-

Priority ID	RMF	IDE	FDF	XLF	BRS	ESI	SDT	SEC	DLC	VCID	AF	LLC data
11 + 18 bit	1 bit	8 bit	1 bit	11 bit	8 bit	32 bit	0 to 2048 byte					

The SDU type indicates the used higher-layer protocol; the VCID allows running multiple applications using the same SDU type

to-say the payload of the CAN XL data link layer). The LLC service interface

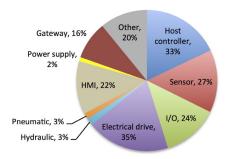
is valid for CAN XL, CAN FD, and Classical CAN implementations.

Legend
RMF: remote frame
IDE: identifier extension
FDF: flexible datarate field
XLF: extra large field
BRS: bit-rate switch
ESI: error state indicator
SDT: service data unit type
SEC: DLL security indication
DLC: data length code
VCID: virtual CAN network ID
AF: acceptance field
LLC data: logical link layer data

CiA member statistics

CiA office has classified the CiA members, in order to provide membership statistics. From the 718 members, 71 are technology enablers providing CAN semiconductors, interface modules, protocol stacks, etc. The majority of members, 392, supply devices. Most of these devices are generic, meaning they can be used in many applications. Others are designed specifically for one dedicated application. For example, CiA has 57 mem-

bers, making elevator-specific devices. There are 25 tool suppliers in the CiA community. CiA collects 78 system providers (original equipment manufacturers) and 193 sub-system manufacturers.



64-bit parameter for drives

The SIG (special interest group) motion control plans to develop a drive profile similar to CiA 402 based on 64-bit parameters. It will be mapped to CANopen FD supporting 64-byte PDOs (process data objects). Parties interested in this specification development are welcome to participate in the SIG's meetings. The 392 device-supplying CiA members produce (programmable) host controllers as well as pre-configured units including sensors, actuators, human machine interfaces (HMI), etc. (multiple answers) for different applications



Features like four simultaneous video streams, support of hardware-accelerated 3D animations, user inputs through a multi-touch capable screen and acoustic feedback via an integrated loudspeaker ensure a perfect interaction of the operator with the vehicle for safe and efficient machine operation.