

EMBEDDED · SECURE UPDATE SUITE

Diag Com Stack

The diagnostic communication protocol stack on the ECU side.

Diag Com Stack (DCS) is the in-vehicle backbone every off-board tool talks to: the UDS server on the control unit, absorbing the transport-layer complexity so the diagnostic conversation stays dependable.

CAPABILITIES

On the ECU

- UDS (ISO 14229) server stack
- Transport over CAN and DoIP (ISO 13400)
- The ECU side of the conversation
Diag Studio and other off-board tools hold

As part of the suite

- Shipped together with the Bootloader and Encrypt
- Carries the software-download sequence the Bootloader executes
- SecurityAccess (UDS), with the suite's HSM-based security

TECHNICAL

PROTOCOL	UDS (ISO 14229), server side
TRANSPORTS	CAN · DoIP; the suite delivery ran over CAN, CAN FD, LIN, GMSL and DoIP
TARGETS	Multiple MCUs on target hardware, adapted per customer

LICENSING

On its own, or as part of the secure update suite with the Bootloader and Encrypt. Licences are perpetual or term-based, agreed per programme. Source-code escrow is available. Support and further development run under a maintenance agreement.

Since 2016

IN SERIAL PRODUCTION WITH
VOLVO CARS SUPPLIERS

PROVEN IN

Volvo Cars · Secure software update

Delivered with the Bootloader and Encrypt so that Nippon Seiki's head-up display and BCS AIS's wireless charger met Volvo Cars' secure software-update requirements.

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