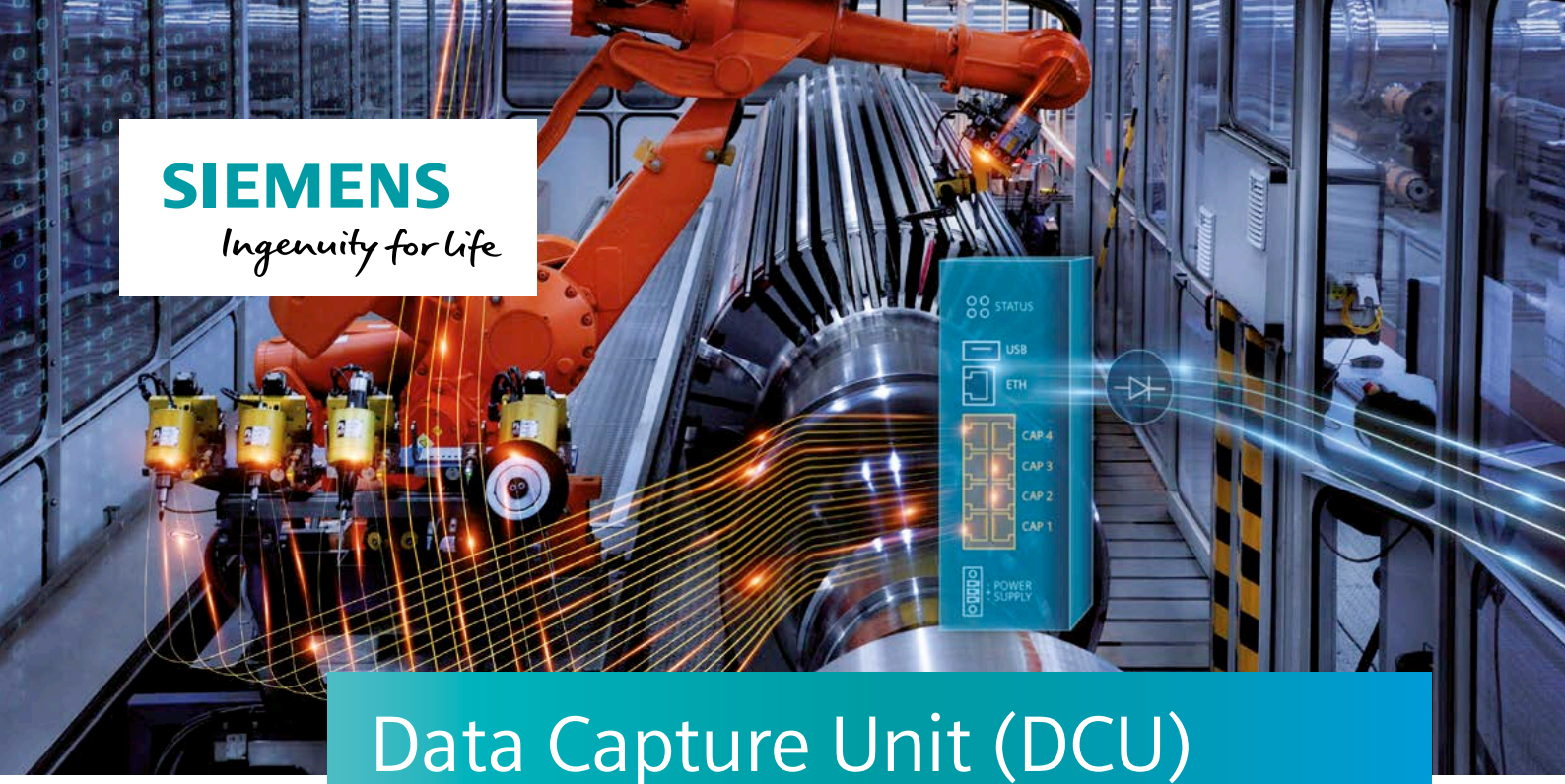

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Data Capture Unit (DCU)

Smart, unidirectional, unobtrusive and undetectable network tap and one-way gateway for monitoring of critical networks

Rapid detection and response to security threats
Cloud-based network security monitoring
Realtime asset discovery

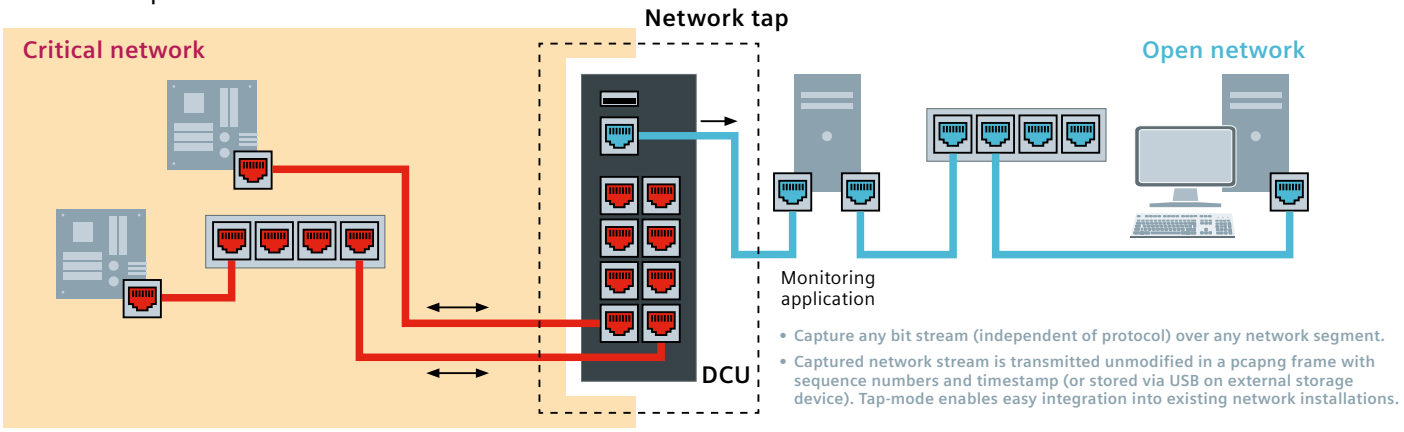
Remote condition monitoring
Management services
Efficiency through data analytics

Cyber-security and adoption of digital apps and services are leading to an increasing need to capture data from critical and secure industrial networks.

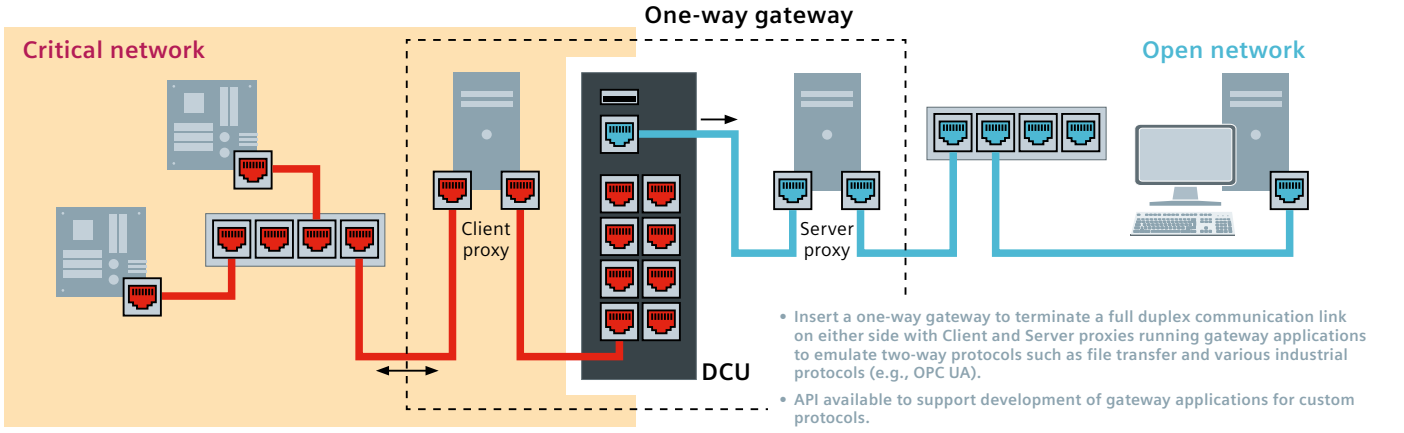
DCU provides for one-way flow of data between critical OT networks and open IT networks.

By providing no direct conduction path between the two networks, passive network tapping via direct connections and no transmit connections back to the tap, the DCU intercepts communications from a network segment without the possibility of manipulating the content or introducing external data.

Modes of operation



- Capture any bit stream (independent of protocol) over any network segment.
- Captured network stream is transmitted unmodified in a pcapng frame with sequence numbers and timestamp (or stored via USB on external storage device). Tap-mode enables easy integration into existing network installations.



- Insert a one-way gateway to terminate a full duplex communication link on either side with Client and Server proxies running gateway applications to emulate two-way protocols such as file transfer and various industrial protocols (e.g., OPC UA).
- API available to support development of gateway applications for custom protocols.

Features and functions

Adheres to principal of “freedom from interference”: no direct conduction path (galvanic isolation); passive tap via direct wire connections; no transmit connection back to tap

Monitoring is independent of the protocol used

Supports up to four 10 or 100 Mbit/s Ethernet links in full-duplex mode (output on Gigabit Ethernet port)

Network operation is uninterrupted even if DCU is offline or failed

Filtering of captured data by protocol, source or target IP, source or target port, data content

Configuration via web-interface or by uploading an xml config file

Supports network tap and one-way gateway operation using gateway applications

Designed for operation in rugged environmental conditions (industrial and rail)

Fulfills SL3 requirements according to IEC 62443-4-2

Dimensions: 167 x 60.6 x 110.5 mm / 6.57 x 2.39 x 4.35 “ (H x W x D)

Temperature range: –40 to +85 °C / –40 to +185 °F

Nominal power supply: 24 VDC

Published by Siemens AG 2017
Mobility Division
Otto-Hahn-Ring 6
81739 Munich
Germany

Article No. MOMM-B10183-01-7600
Printed in Germany
Dispo 01000
BR 12170.5

siemens.com/mobility