

EXECUTIVE SUMMARY

The continued digitalisation of the automotive supply chain and developments related to Industry 4.0 mean that process transparency and standardised methods of providing this transparency have become critical issues.

To achieve process transparency, machine-readable objects and ways of tracking of these objects along the process chain need to be defined and implemented. The path towards these objectives has already been prepared with the publication of Odette Recommendations on auto-ID: [LR01](#), [LR02](#), [LR03](#), [LR04](#) and [LR05](#). The next logical step is the implementation of standardised communication with all business partners across company boundaries, based on international standards and the best-practice experience of parties involved in the process. The Odette Recommendation “Capturing Supply Chain Events with Auto-ID” addresses this issue.

Part 1 of the Recommendation specifies an Automotive Business Vocabulary (ABV) which is an extension of the ISO/IEC 1.2 Core Business Vocabulary (CBV) standard by elements required by the automotive industry. The CBV is the data standard of EPCglobal® used in connection with the GS1/IEC/ISO interface standard EPCIS 1.2 (ISO 19987).

Part 2 of the Recommendation describes the application of the ABV in the automotive supply chain.

The Recommendation also includes annexes which provide descriptions of typical business processes where auto-ID can be applied and some examples of the short electronic messages which are used to transmit the event information to internal IT applications.

EPCglobal® is a GS1 initiative to innovate and develop industry-driven standards for the Electronic Product Code™ (EPC) to support the use of Radio Frequency Identification (RFID) and allow global visibility of items (EPCIS) in today's fast-moving, information rich, trading networks.

EPCIS is a GS1 standard that enables trading partners to share information about the physical movement and status of products as they travel throughout the supply chain – from business to business and ultimately to consumers. It helps answer the “what, where, when and why” questions to meet consumer and regulatory demands for accurate and detailed product information.

The goal of EPCIS is to enable disparate applications to create and share visibility event data, both within and across enterprises. This sharing is aimed at enabling users to gain a common view of physical or digital objects within a relevant business context.

The CBV provides definitions of data values that may be used to populate the data structures defined in the EPCIS standard. The use of the standardized vocabulary provided by the CBV standard is critical to interoperability and critical to provide for querying of data by reducing the variation in how different businesses express common intent.

The GS1 CBV and the Odette ABV are complementary vocabularies. For all vocabulary elements specified in the CBV, the CBV format must be used. EPCIS messages that conform to the ABV are compatible with CBV in accordance with the ISO standard.

The Odette ABV is an industry vocabulary that adheres to the specifications of the CBV. It includes only the vocabulary elements that are required specifically by vehicle manufacturers, automotive suppliers and logistics service providers and which are not yet defined in the CBV.