GS1 System

Thomas Bikeev

B2B Group Manager, GS1

Oasis Adoption Forum, London

17 October 2005

GS1

- GS1 is a global organization dedicated to the design and implementation of global standards, technologies and solutions to improve the efficiency and visibility of supply and demand chains.
- GS1 has more than 30 years experience in the development and support of global supply chain standards and technologies.
- GS1 is truly global, with 101 national Member Organisations driven by a membership of more than a million organizations who in turn do business in more than 140 countries.

GS1 System

GS1 BarCodes

Global Standards for automatic identification

GS1 eCom

Global Standards for electronic business messaging

GS1 GDSN

The environment for global data synchronisation

EPCglobal Powered by GS1

Global Standards for RFID - based identification

Mature
Technology & Application

Emerging
Technology & Application

GS1 BarCodes

Enables rapid and accurate electronic item identification at the point of sale or at any other point of the supply chain in any industry and in any part of the world, resulting in improved efficiency and visibility in the supply and demand chains.

- The GS1 BarCodes use globally recognized GS1 Identification Keys to rapidly and accurately identify items.
- The GS1 BarCodes are the most widely used physical identification standard in the world.

Components:

EAN/UPC, ITF-14, GS1-128, RSS, Composite, Data Matrix

Global standards for electronic business messaging that allow rapid, efficient and accurate automatic electronic transmission of agreed business data between trade partners.

- The use of GS1 eCom standards like EDI EANCOM or XML provides a standardized and predictable structure of the electronic business message.
- GS1 eCom standards are based on globally recognized GS1 Identification Keys (GTIN, GLN, SSCC ...) also used for physical identification of items.

Components:

EDI EANCOM, EAN.UCC XML

GS1 GDSN (Global Data Synchronisation Network) is an automated, standards-based global environment that enables secure and continuous data synchronization, allowing all partners to have consistent item data in their systems at the same time.

- Standardised, reliable data for effective business transactions in both local and global markets, driving costs out of the supply chain.
- Ensuring item data is updated and is consistent between trading partners.
- Ensuring trading partners classify their products in a unique standardized way (GS1 Global Product Classification)

Components:

GS1 Global Registry, GPC Global Product Classification, Certification Program

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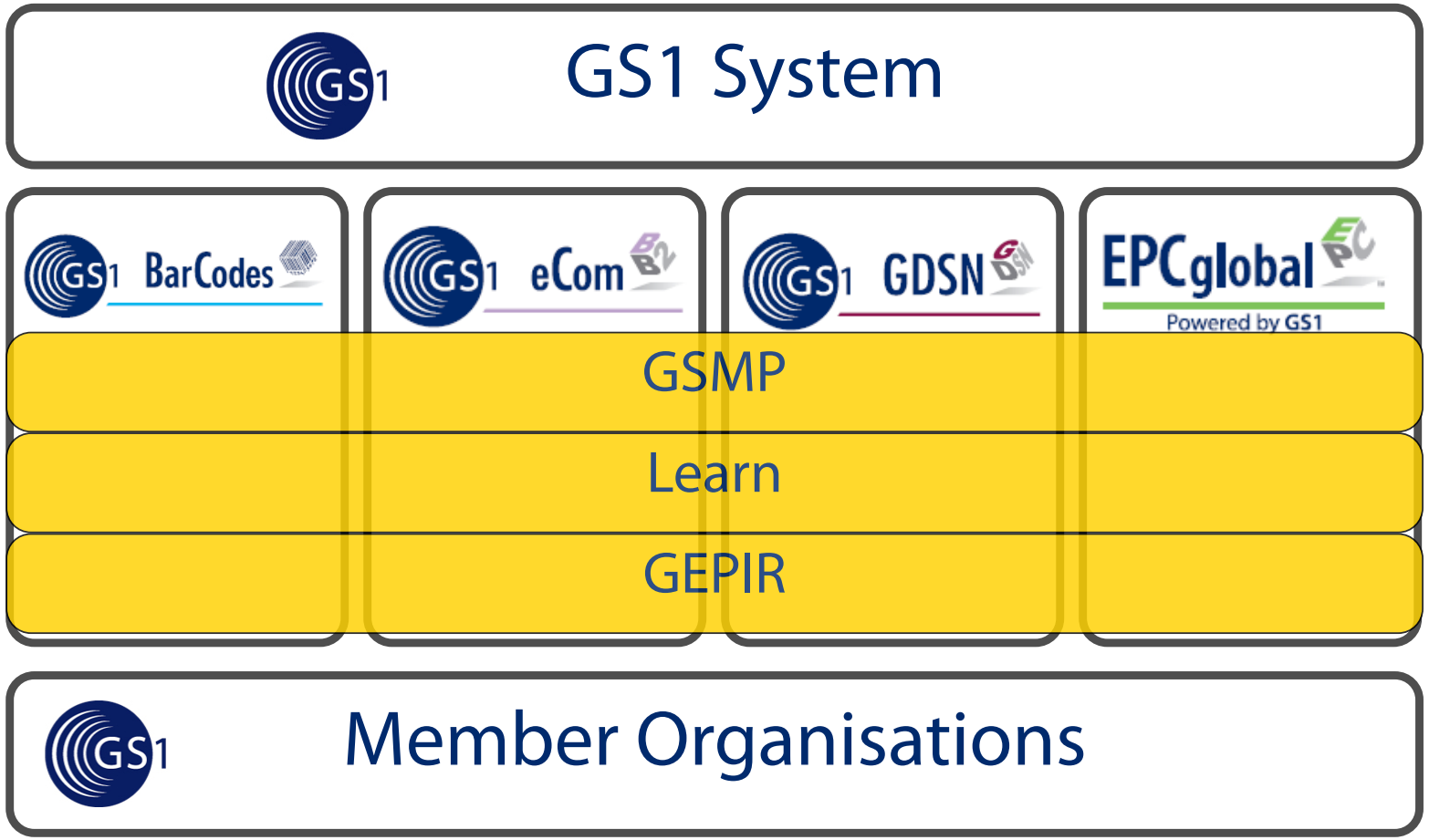
New global standard system that combines radio frequency identification (RFID) technology, existing communications network infrastructure and the Electronic Product Code (a number for uniquely identifying an item) to enable immediate and automatic identification and tracking of an item through the whole supply chain globally.

- The network of information provides real-time object movement data for individual items to authorized and authenticated users.
- The Electronic product Code (EPC) allows organizations to uniquely and accurately identify objects through the supply and demand chain.

Components:

EPC (electronic Product Code), Tag Data, Air Interface and EPCglobal Network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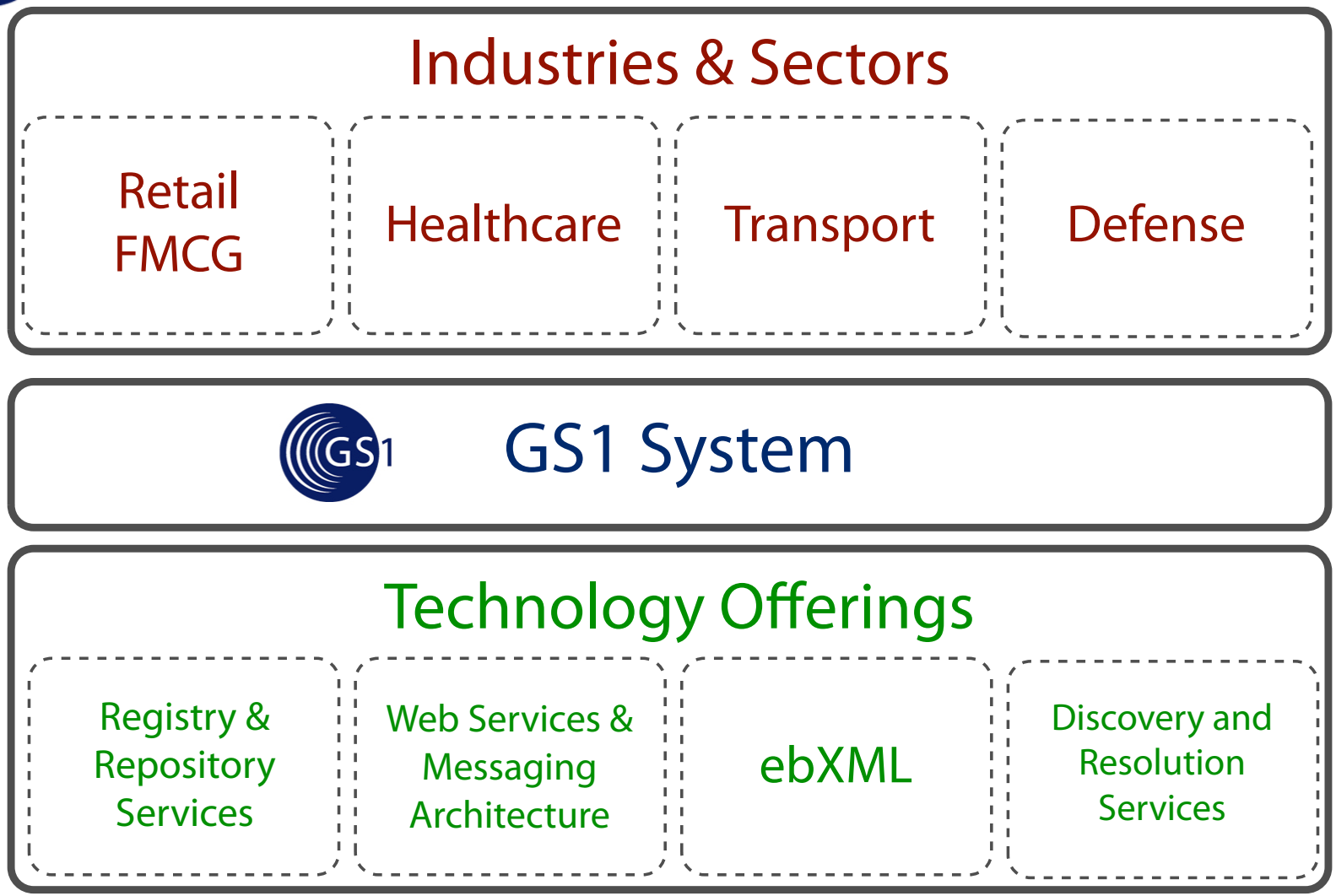
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