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The use of GSRN for Patient and Care provider identification

Christian Hay

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GS1 in a nutshell

Who is GS1?

GS1 is a not-for-profit organisation dedicated to the design and implementation of **global standards** to improve the efficiency and visibility of **supply chains** globally and across sectors

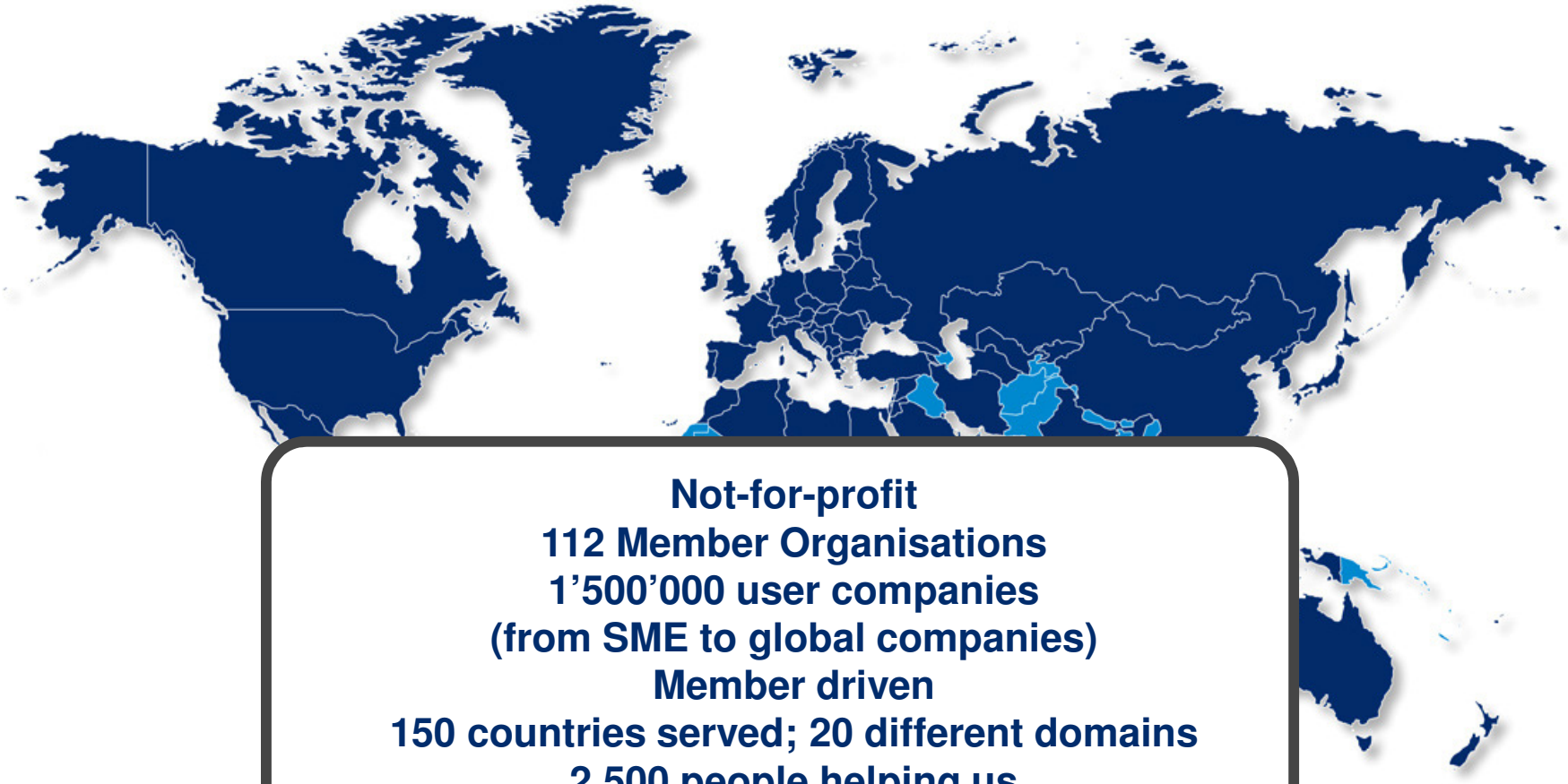
GS1 Global Office

Identification, creation, development and maintenance of standards and our foundational architecture, coordination with other international bodies, development of training programmes...

GS1 Member Organisations

Local offices in 112 countries around the globe
Implementation of standards, local regulatory adjustments, community management and relationship management with local governments and regulatory agencies...

Global reach, local presence



Not-for-profit
112 Member Organisations
1’500’000 user companies
(from SME to global companies)
Member driven
150 countries served; 20 different domains
2,500 people helping us
Over 6 billion transactions a day

GS1 system of standards

GS1 extended collaborations in Healthcare

World Health Organization

World Customs Organization

International Society for Blood Transfusion

European Association of Hospital Pharmacists

European Association of Medical Device manufacturer

International Society for Quality in Healthcare

We care about secure processes

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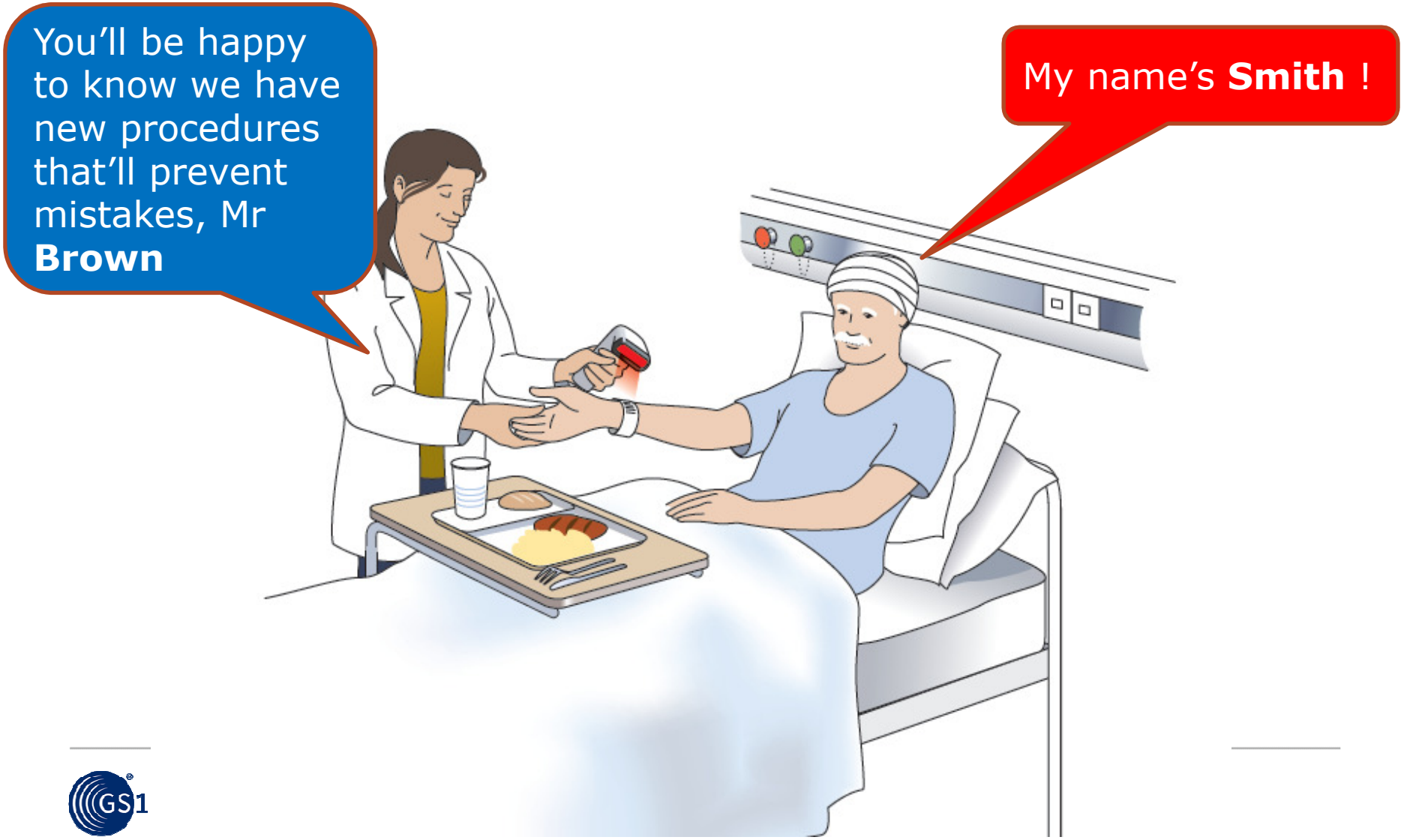
GSRN – *the* GS1 key to safe care

Positioning the problem

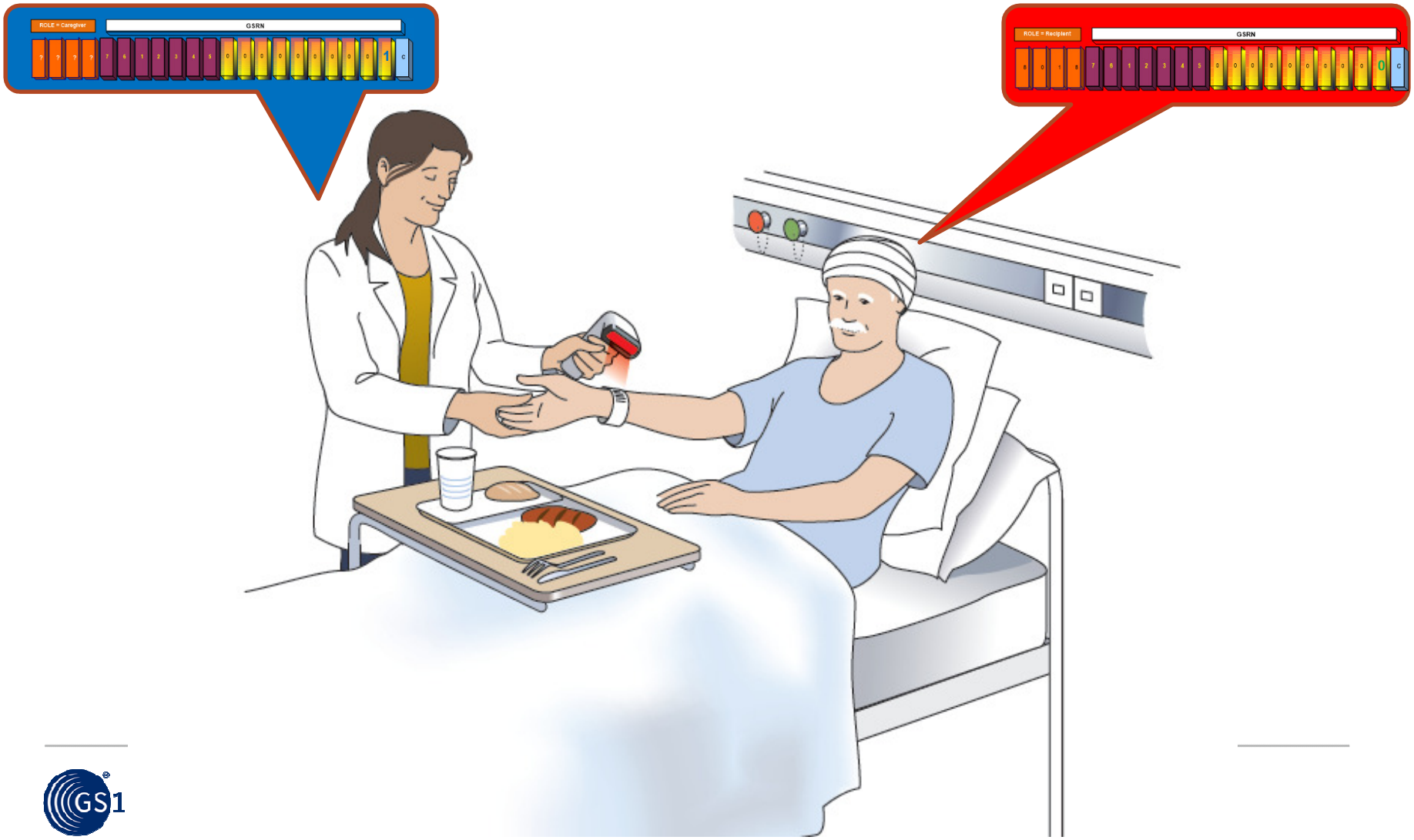
- Identification of subject of care is recognised priority and key to secure health care
- Which solution would be acceptable and efficient?

?

How to identify…



Distinguish «provider» from «recipient»



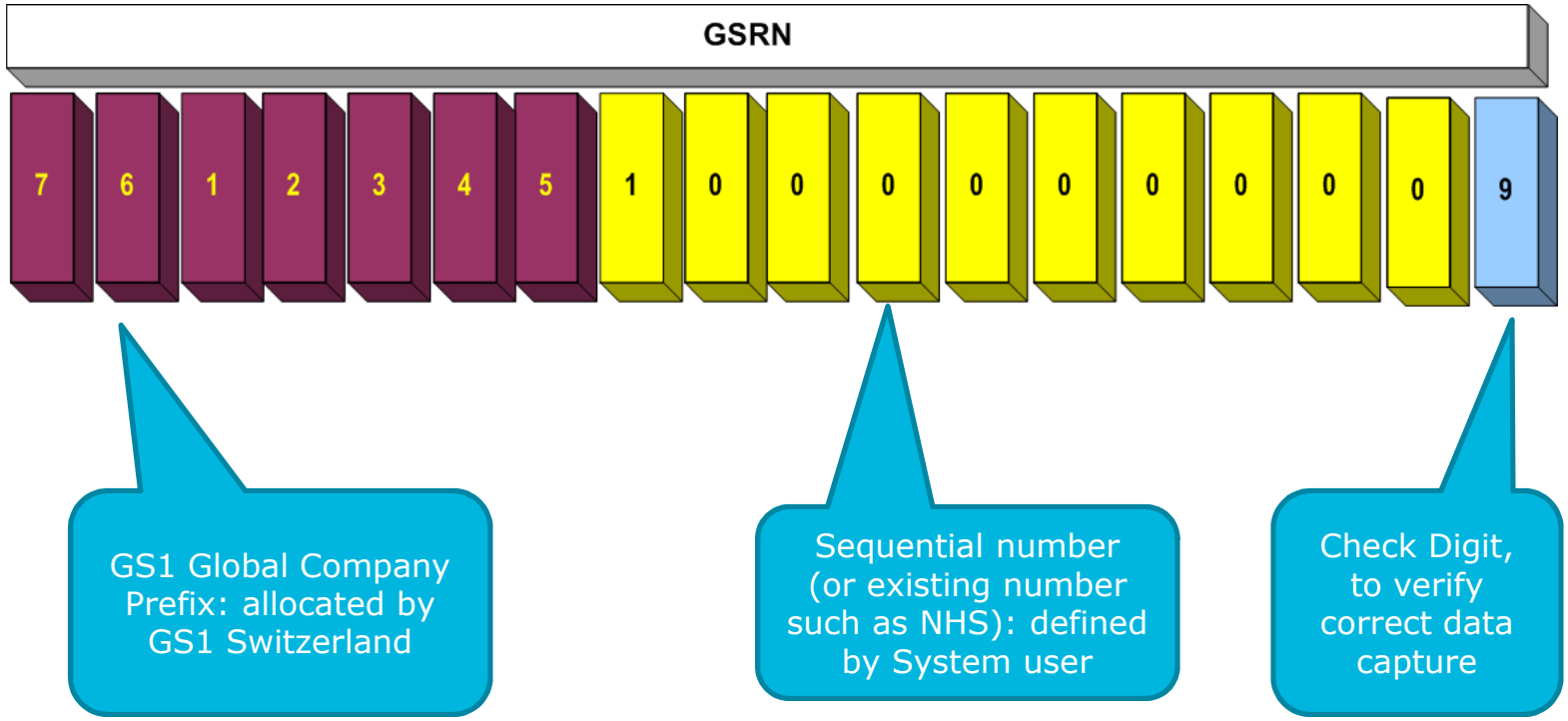
Definition GSRN (Global Service Relation Number)

- Global Service Relation Number (GSRNs) can be used to identify the **service provider** and/or **service recipient** in any service relationship. A separate, unique number can be issued, normally by the organisation offering the service to identify the service provider and/or the service recipient, to identify any given service relationship. Once assigned, the GSRN becomes a unique and universal reference that can be used by all parties involved in the service relationship.

- A GSRN with either AI 8018 or AI 8017 are **mutually exclusive**, that is, a GSRN can only be assigned to a single role, recipient or provider, but not both.

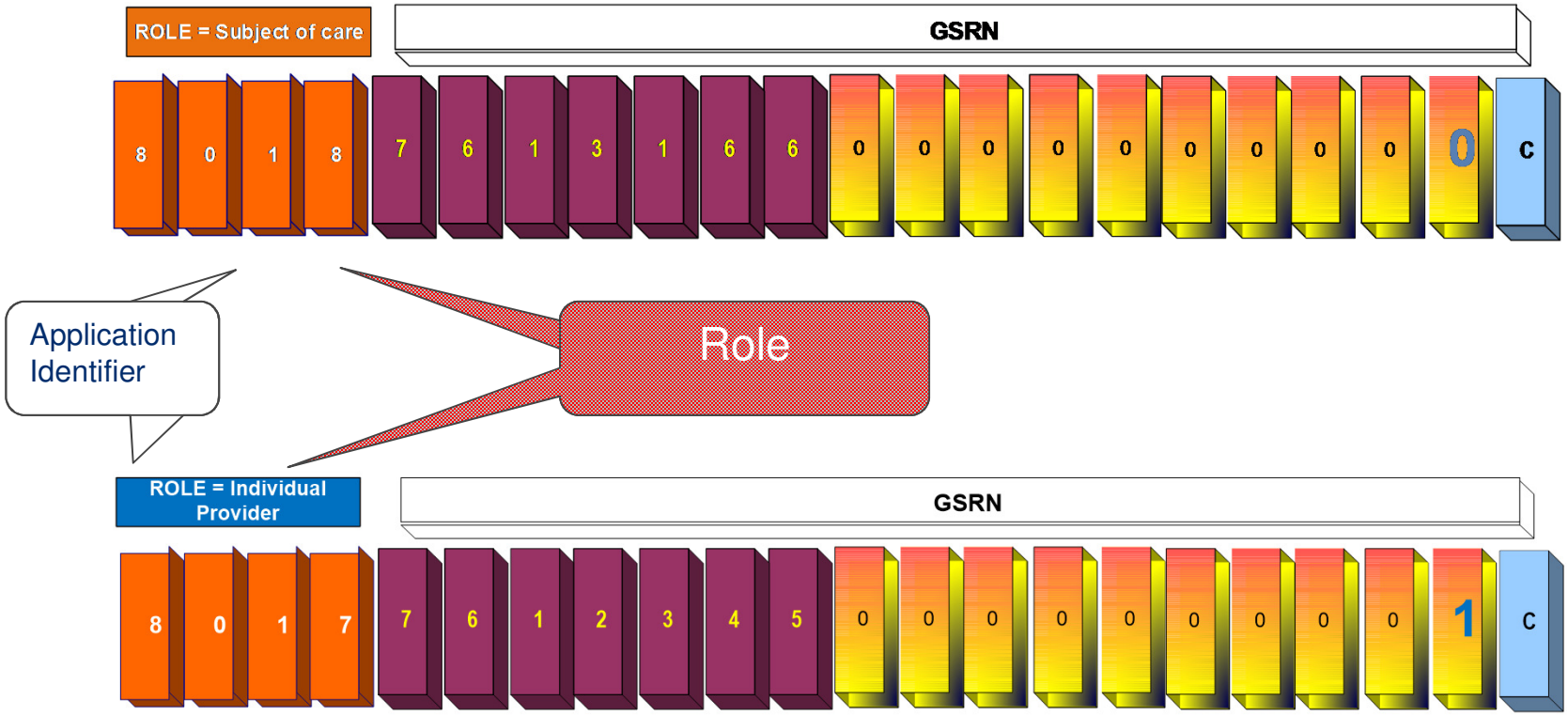
Format of GSRN

Format for both Subject of Care Identification and Individual Provider Identification is the « Global Service Relationship Number » (GSRN)



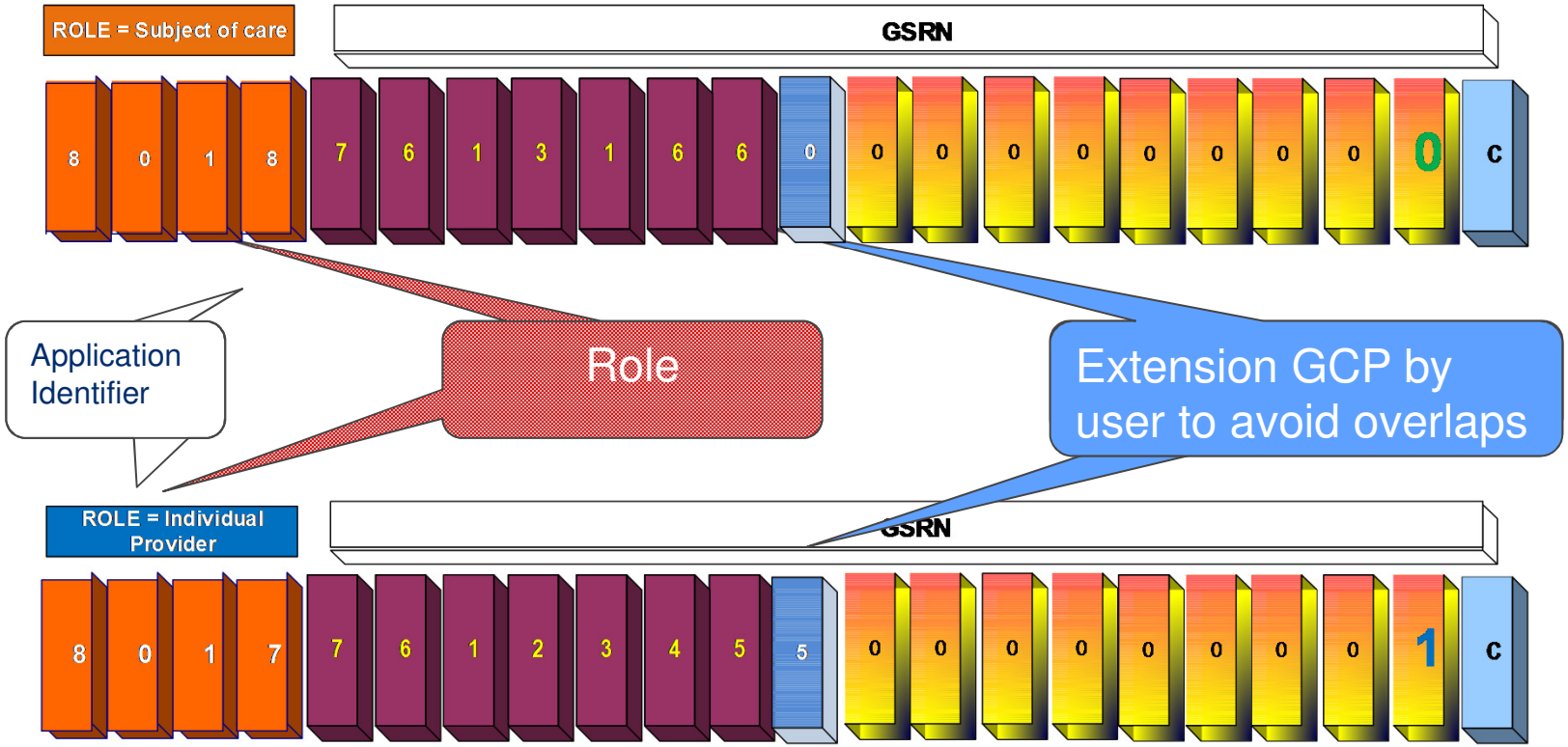
Application Identifiers 8018 - 8017

Distinguish provider from recipient of service



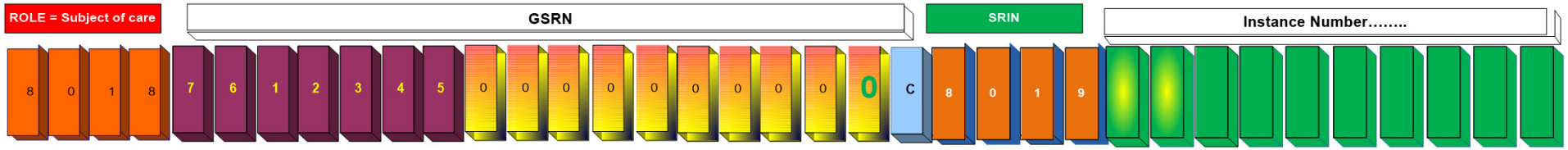
Application Identifiers 8018 - 8017

Distinguish provider from recipient of service – PLUS extending GCP with 1 or 2 digits to avoid overlaps



Application Identifier 8019

- The Service Relation Instance Number (SRIN) is an attribute to the GSRN which allows distinguishing different encounters during the same episode, or the reuse of the same GSRN in different episodes. SRIN is a 10 numeric digits variable length filed.



- SRIN can only be used with AI 8018 (recipient of service); change request pending for use with 8017 (provider of service)

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About CEN ISO TS 18530

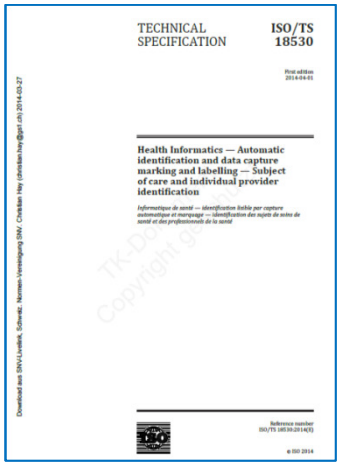
Patient Identification

Automatic identification systems are able to reduce medication errors due to patient misidentification by 65-86% (Source: US Department of Veterans Affairs)

- ISO standard – developed together with other standard organisations and ICCBBA
- Existing AI 8018 – has the ability to embedd existing numbers such as NHS number
- New AI 8019 - Service Relation Instance Number (SRIN)
- Optional attribute to capture «instances» in the care processes

CEN ISO TS 18530 scope

- This Technical Specification outlines the standards needed to identify and label the Subject of Care (SoC) and the Individual Provider on objects such as wrist bands, identification tags or other objects, to enable automatic data capture using data carriers in the care delivery process.
- It provides for a unique SoC identification that may be used for other purposes, such as recording the identity of the SoC in medical health records.
- This Technical Specification serves as a reference for any organization which plans to implement or improve Automatic Identification and Data Capture (AIDC) in their delivery of care process. It is to be used in conjunction with the GS1 system of standards.
- …


TECHNICAL SPECIFICATION ISO/TS 18530

Health Informatics — Automatic identification and data capture marking and labelling — Subject of care and individual provider identification

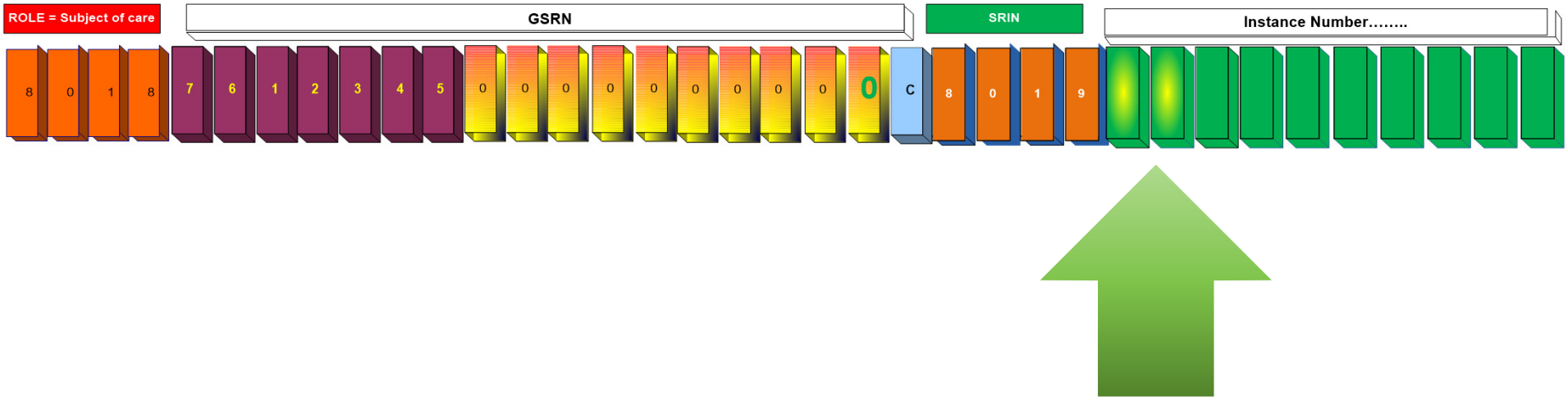
CEN ISO TS 18530 – Use cases

Table 1 — Overview of supported processes

Usage Requirements	SoC identifier	SRIN	Individual Provider Identification
SoC and Individual Provider Identification as a recognized priority	X		X
Machine readable coding for clinical purpose (point of care)	X	X	X
Machine readable coding in complex point of care environments	X	X	X
Machine readable coding to avoid workarounds	X	X	X
Machine readable coding in the blood transfusion processes	X	X	X
Machine readable coding for chronic outpatient	X	X	X
Machine readable coding by integrating nationwide SoC identification	X	X	X

CEN ISO TS 18530 particularity for SRIN

- For the purpose of CEN ISO TS 18530, for compliance **with ISBT 128**, the SRIN shall be used as a fixed length string with the first two digits (NN) reserved for the ISBT 128 location code (Table RT018); the selection of the remaining eight (8) digits is left to the discretion of the user and may be incremental.



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Homogeneous scanning environment

Homogeneous environment?

Source: inspired by Prof. Chr. Lovis, Univ. Hospitals Geneva (2010)

Efficiency by providing a homogeneous scanning environment

Homogeneous environment for scanning implies that one single system of standards is used

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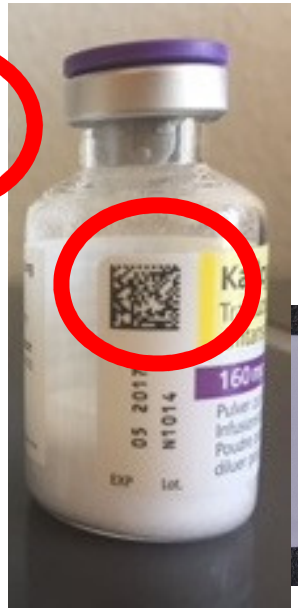
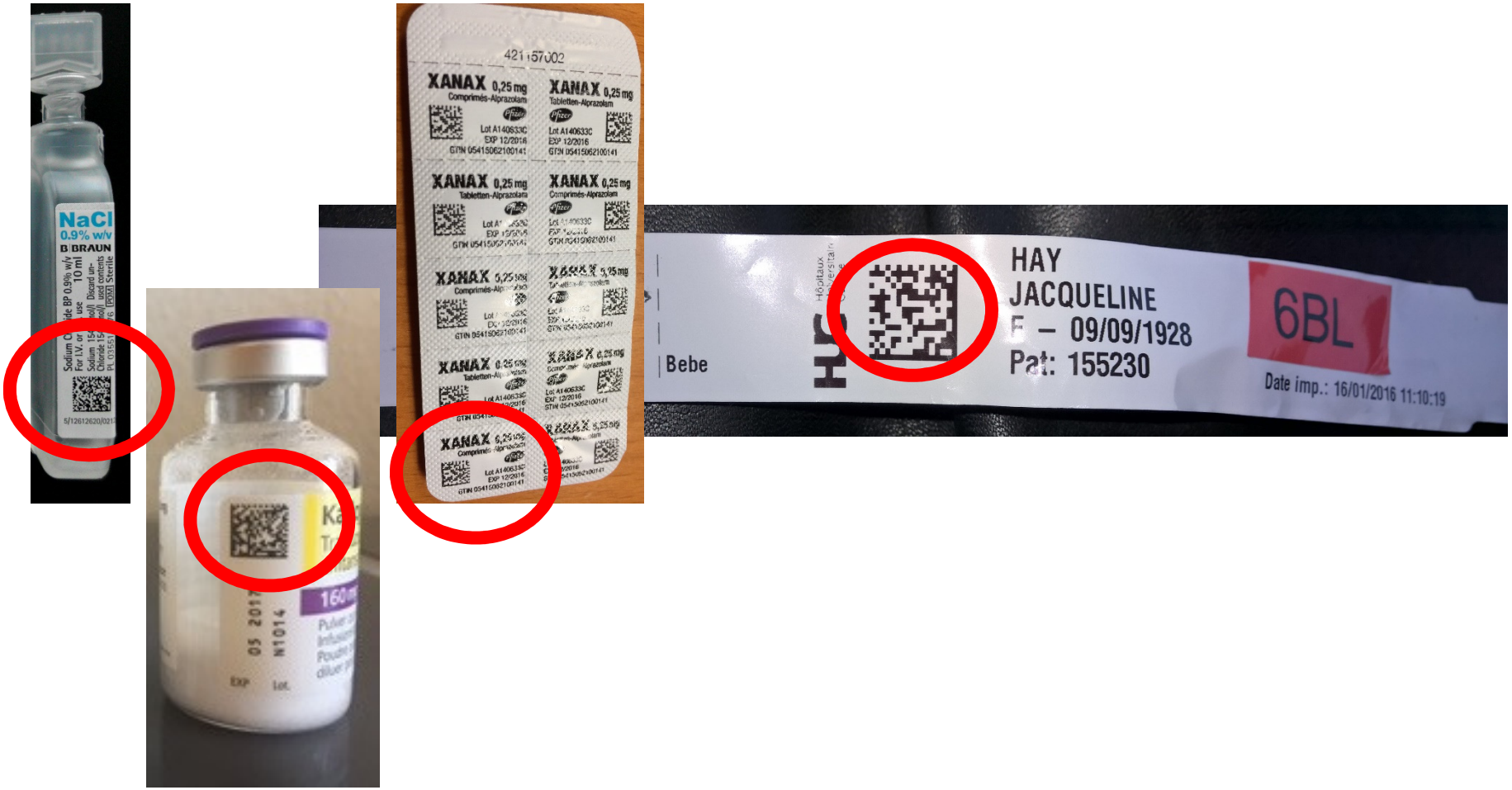
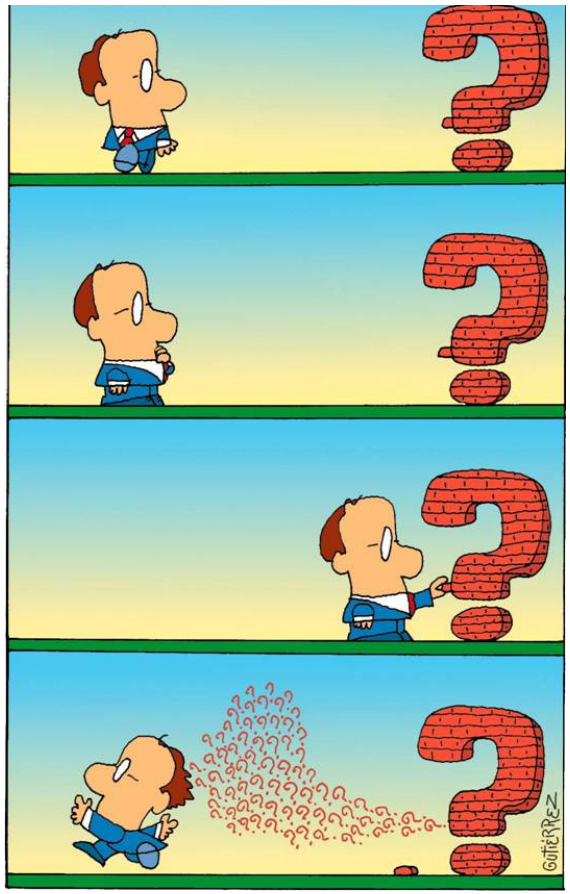
Homogeneous scanning environment



Homogeneous scanning environment



Contact



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