

ISO/IEC JTC 1/SC 31 N1464

DATE: 2003-JUN-26

ISO/IEC JTC 1/SC 31

Automatic Identification and Capture Techniques

Secretariat: ANSI (USA)

DOC TYPE: Contribution

**TITLE: National Body Contribution from Japan to the ISO/IEC JTC 1/SC 31
Plenary Meeting in Paris, France – 2003 May 14-15**

SOURCE: Japan National Body

PROJECT:

STATUS: Reference Attached Document

ACTION ID: FYI

DUE DATE:

DISTRIBUTION: ISO/IEC JTC 1/SC 31 members, JTC 1 Secretariat

MEDIUM: Web

NO. OF PAGES: 2 (including cover page)

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New Work Item Proposals from Japan

Japan is planning to propose several items as New Working Items to SC31 in the year 2003.

The item No.1 is product traceability number.

We propose "Issuing Agency Code + Product Manufacturer Code + product number + Traceability number" as a basic data structure for product identification. Product traceability number applies the concept of ISO/IEC 15459-1/15459-2, which have already been standardized by SC31 WG2. ISO/IEC 15459-1 is the standard for unique identifier of transport unit, and its structure is "Issuing Agency Code + Product Manufacturer Code + Serial Package number".

The item No.2 is Micro QR Code.

We propose to include Micro QR Code to ISO/IEC 18004 - QR Code. Basically, Micro QR Code is a variant of QR Code, and have only one finder pattern instead of three for QR Code to save print area. It is suitable for direct marking of small items.

The item No.3 is 2D symbol direct marking on products.

While existing standards are on the paper printing basis, Japan proposes a guideline for marking/reading of symbols marked by laser etc. on metal or resin material, as a Technical Report.

The item No.4 is RF Tag combined with rewritable paper

We propose specifications for RF tag combined with rewritable paper and its rewriting (printing/erasing) devices. The RF tag combined with rewritable paper uses rewritable paper for its substrate of RF tag to attach human/machine readable information using OCR, barcode or 2D symbology. Readable information can be rewritten when the RF tag information is rewritten, which promotes RF tag reusing. It can also act as recovery measures when the RF tag is damaged and unable to be accessed.