Ericsson Product Identity Marking

Abstract

These instructions provide rules for identity marking of Ericsson products, i.e. PBAs, Plug-In-Units (PIUs), Magazines, Cabinets and Stand Alone Products. It does not deal with product specific, plant-related, component, cable product or product related packaging markings.

Application

This instruction is to be referred to in product specific instructions and other documents in which an Ericsson identity marking of products is prescribed. Ericsson establishes requirements governing the layout of product labels. The contract between Ericsson and sub suppliers is to include conditions and regulations concerning the use of Ericsson product identity labels.

Supplementary documents

1 102 01-103/1 Uen  Marking of Component
2 102 01-111 Uen  Product Related Markings
3 102 01-113 Uen  Marking of Cables
4 102 01-1003 Uen  Marking of Product and Transport Packaging
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1 General Information

Marking requirements are applicable for products included in Ericsson product portfolio. Standardized marking will give a minimal usage of different types of marking labels and will give a 'cleaner' feel and look of Ericsson products for customers worldwide.

Using a common Ericsson marking will strengthen the Ericsson's brand.

There are typical two kinds of markings.

1 Product identity marking, gives information about product class, type, version, individual and when and where it is produced

2 Product related marking, means markings for warning, handling, approval/certification etc.

Sometimes these types of markings are combined into one product marking and are then specified in a specific 1301- or 151 86-document.

2 Main Rules for Identity Marking of Ericsson Products

Ericsson products should not bear more markings than needed and necessary (required) for the product identification and handling.

2.1 Placement

Ericsson products shall have the identity marking in a conspicuous place, as legibly, as the nature of the product permits, to ensure correct identification and handling during manufacturing, installation, operation and repair.

When an Ericsson product consists of a number of components or equipment items (i.e. an assembled/structured product), it is sufficient if the over-all product identity marking is in a conspicuous place, e.g. the identity marking of a PIU but not the identity marking of the PBA on which the front is mounted or the identity marking of a stand alone product.

2.1.1 Durable

Product identity markings shall be indelibly and permanently readable (human and machine) throughout the products life cycle.
2.2 Information about owner (manufacturer)

The Ericsson Logotype shall be used, as the available size for marking permits, on Ericsson products to show that Ericsson is the design owner and manufacturer of the by Ericsson marketed products included in Ericsson product portfolio.

The primary logotype for use on product markings is the Ericsson e-con (Figure 1), this as a main branding in most cases is placed at the front of the main product’s frame/casing (Figure 2 and 3).

If no main Ericsson brand (Figure 2 or 3) is placed elsewhere on the product the product marking shall include a logotype including “ERICSSON” (Figure 2 or 3), depending on the nature of the product.

2.2.1 Ericsson Logotypes

Figure 1  e-con  Figure 2  Vertical logotype  Figure 3  horizontal logotype

Instructions for usage are given in 102 60-SVA 901 09 Uen, when to use an Ericsson logotype on markings and packaging.

2.3 Product Identity

Identity to provide or enable define type and model of a given product. Identification can either be only product number or product number and R-state (Revision), as registered in PRIM.

2.4 Traceability Identity

Identity enabling following up of individual instances or group of individuals being of the same or different type. Type of traceability identity depends on defined needs for product follow up, which is defined by traceability requirement set in PRIM (Serial number, Batch Number or Factory Code).

2.5 Country of Origin

Country of Origin, “Made in ………”, is to be human readable in full English short name and when encoded in 2 character country code to show manufacturing origin for the actual product. See also 102 01-3085 Uen.

2.6 Data Elements

For information on data elements used for markings see 0033-3140 Uen.
2.6.1 Customer required elements

Customer requirements for specific data elements could exist but these shall be treated with caution, as it could require additional markings, changes in HW and SW design and therefore also additional costs (for both the marking itself and administration of data).

2.7 Human readable information

The sequence of information on an Ericsson product identity marking is to be in such way that the product type is read first and individual information is read at the end.


1 When using bar code the human readable interpretation is to be placed above the actual bar code, as size permits

2 When using a 2D symbol the human readable translation is to be placed above or to the right of the 2D symbol, as size permits.

2.7.1 Font and style

Arial is to be used on markings and in the same style, according to standard 1041-402 Uen. With the exception for information directly marked on a product that is to indicate/promote a function, which shall use Ericsson Sans.

2.8 Encoded information

Data element (information) encoded in a bar code or 2D symbol shall always be preceded with the corresponding data identifier, e.g. ‘S’ for serial number.

An Ericsson product number shall always be encoded without spaces (as that is how the product number is stored in databases).

1 When using bar code only one data element per bar code is to be coded

2 When using a 2D symbol, like PDF417, the data string must start with a message header defining type of qualifier used for the included data elements (one or many) and end by a message trailer

2.8.1 Bar codes and 2D symbols

More information concerning bar codes and 2D symbols is given in the standard 102 01-109 Uen.
3 Product Identity Markings

It is the marking and its documentation that provides the actual information on what to be included and how information is presented on identity markings. Section 4 gives information on the minimum required data elements.

As long as possible strive for use of standardized markings and labels, see standards 102 01-107 Uen and 1784-LZF 083+ Uen. Before creating a new marking, ALWAYS perform a search in achieves like GASK, ERIDOC, CDM, etc. through PRIM to avoid duplications.

4 Minimum Set of Data Elements

What set of data elements to be used depends on traceability requirement set for the product in PRIM. The tables specify the data elements (mandatory, recommended or optional) and how it is to be presented on the product (as human readable, in bar code and/or 2D symbol).

More information about product traceability can be read in 102 01-110 Uen.

4.1 Individual traceable product (Yes, “Y”)

The table below shows the minimum set of data elements for products that have Yes (“Y”) set as traceability requirement in PRIM.

<table>
<thead>
<tr>
<th>Data element</th>
<th>Required</th>
<th>Human Readable</th>
<th>Code128</th>
<th>2D Symbol</th>
<th>Data Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ericsson Logotype</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Global Unique Company Identity</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>M</td>
<td>18V</td>
</tr>
<tr>
<td>Ericsson Product Number</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>M</td>
<td>1P</td>
</tr>
<tr>
<td>Ericsson R-state</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>M</td>
<td>21P</td>
</tr>
<tr>
<td>Marking Text (Func. Des.)</td>
<td>O</td>
<td>O</td>
<td>N/A</td>
<td>O</td>
<td>22P</td>
</tr>
<tr>
<td>Manufacturing Date</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>12D</td>
</tr>
<tr>
<td>Ericsson Serial Number</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>M</td>
<td>S</td>
</tr>
<tr>
<td>Country of Origin:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>full English short name</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2 character ISO code</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>4L</td>
</tr>
</tbody>
</table>

Table 1 Set of data elements for “Y” as traceability requirement in PRIM

M = Mandatory, O = Optional, N/A = Not Applicable
4.2 Batch traceable product (Batch, “B”)

The table below shows the minimum set of data element for products that have Batch (“B”) set as traceability requirement in PRIM.

<table>
<thead>
<tr>
<th>Data element</th>
<th>Required</th>
<th>Human Readable</th>
<th>Code128</th>
<th>2D Symbol</th>
<th>Data Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ericsson Logotype</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Global Unique Company Identity</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>18V</td>
</tr>
<tr>
<td>Ericsson Product Number</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>1P</td>
</tr>
<tr>
<td>Ericsson R-state</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>21P</td>
</tr>
<tr>
<td>Marking Text (Func. Des.)</td>
<td>O</td>
<td>O</td>
<td>N/A</td>
<td>O</td>
<td>22P</td>
</tr>
<tr>
<td>Manufacturing Week</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>11D</td>
</tr>
<tr>
<td>Ericsson Batch Number</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>1T</td>
</tr>
<tr>
<td>Country of Origin:</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>full English short name</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2 character ISO code</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>4L</td>
</tr>
</tbody>
</table>

Table 2  Set of data elements for “B” as traceability requirement in PRIM
M = Mandatory, O = Optional, N/A = Not Applicable

4.3 None individual traceable product (No, “N”)

The table below shows the minimum set of data element for products that have No (“N”) set as traceability requirement in PRIM.

<table>
<thead>
<tr>
<th>Data element</th>
<th>Required</th>
<th>Human Readable</th>
<th>Code128</th>
<th>2D Symbol</th>
<th>Data Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ericsson Logotype</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Global Unique Company Identity</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>18V</td>
</tr>
<tr>
<td>Ericsson Product Number</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>1P</td>
</tr>
<tr>
<td>Ericsson R-state</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>21P</td>
</tr>
<tr>
<td>Marking Text (Func. Des.)</td>
<td>O</td>
<td>O</td>
<td>N/A</td>
<td>O</td>
<td>22P</td>
</tr>
<tr>
<td>Manufacturing Week</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>11D</td>
</tr>
<tr>
<td>Ericsson Factory Code</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>1V</td>
</tr>
<tr>
<td>Country of Origin:</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>full English short name</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2 character ISO code</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>4L</td>
</tr>
</tbody>
</table>

Table 3  Set of data elements for “N” as traceability requirement in PRIM
M = Mandatory, O = Optional, N/A = Not Applicable
4.4 Traceability requirement NOT set

The table below shows the minimum set of data element for products that NOT have traceability requirement set (Blank, “”) in PRIM.

<table>
<thead>
<tr>
<th>Data element</th>
<th>Required</th>
<th>Human Readable</th>
<th>Code128</th>
<th>2D Symbol</th>
<th>Data Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ericsson Logotype</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Global Unique Company Identity</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>18V</td>
</tr>
<tr>
<td>Ericsson Product Number</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>1P</td>
</tr>
<tr>
<td>Ericsson R-state</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>21P</td>
</tr>
<tr>
<td>Marking Text (Func. Des.)</td>
<td>O</td>
<td>O</td>
<td>N/A</td>
<td>O</td>
<td>22P</td>
</tr>
<tr>
<td>Manufacturing Week</td>
<td>M</td>
<td>M</td>
<td>O</td>
<td>O</td>
<td>11D</td>
</tr>
<tr>
<td>Ericsson Factory Code</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>1V</td>
</tr>
<tr>
<td>Country of Origin:</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>full English short name</td>
<td>M</td>
<td>M</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2 character ISO code</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>4L</td>
</tr>
</tbody>
</table>

Table 4  Set of data elements for “ ” as traceability requirement in PRIM

M = Mandatory, O = Optional, N/A = Not Applicable

5 Changes in Identity Marking for a Modified Product

After the modification (repairs and/or alterations) of a product, the identity marking must be changed with respect to that:

1 The Product Serial Number shall remain the same

2 Product Number, R-state, Marking Text and Manufacturing Date or Week should be changed according to modification instructions.

3 Country of Origin (“Made in ……..”) shall be changed if the modification includes a change of the product number and when the modification not is done at the original manufacturer.

More information about product changes can be read in 1092-212 Uen.
6 Examples of Markings

The illustrations below are just examples, for actual information see marking documentation. When serial number is to be encoded, use of a marking including a 2D symbol is to be used.

Figure 4 Example of product identity markings with human and machine readable data, e.g. for traceability requirement “Y”

Figure 5 Example of product identity markings with only human readable data, e.g. for traceability requirement “B”, “N” and " "


7 References

7.1 Internal

0033-3140 Uen Data Elements for Markings
102 01-107 Uen Markings for Product Identity and Packaging
102 01-109 Uen Barcode Symbology
102 01-110 Uen Product Traceability
102 01-111 Uen Product Related Markings
102 01-113 Uen Marking of Cables
102 01-1003 Uen Marking of Product and Transport Packaging
102 01-3085 Uen Marking for Showing Country of Origin ("Made in ...")
102 60-SVA 901 09 Uen The Ericsson logotype on labels and packaging
1041-402 Uen Font Face for Marking

7.2 External

ISO 3166-1 Codes for the representation of names of countries and their subdivisions -- Part 1: Country codes
ISO 8601:2004 Data elements and interchange formats -- Information interchange -- Representation of dates and times
ISO/IEC 15418:2009 Information technology -- Automatic identification and data capture techniques -- GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance
* for continuous maintenance document go to http://www.autoid.org/ANSI_MH10/ansi_mh10sc8_wg2.htm
ISO/IEC 15434:2006 Information technology -- Automatic identification and data capture techniques -- Syntax for high-capacity ADC media
7.3 Links


CDPH, http://cdph.ericsson.se

8 Change Information

Changes from Rev V:

Country of Origin (Made in) requirement revised and “full English name” is replaced by “full English short name”.

2.2 Revised to inform about the different “logotypes” that could be used on product markings, depending on application.

4.1 Data elements (for “Y”) being mandatory, optional or not applicable revised in Table 1. Global Unique Company Identity added.

4.2 Data elements (for “B”) being mandatory, optional or not applicable revised in Table 2. Global Unique Company Identity added.

4.3 Added (for “N” or “”) to separate data element tables according to traceability requirements setting available in PRIM

6.2 Examples of markings revised accordingly to changed information in 4.1, 4.2 and 4.3.

7.1 Link to Brand Portal updated and links to PRIM DD (PRIM Document Register) CDPH (Common Design Principles for HW) added

7.3 External references revised and link to Ericsson Standards Supply for downloading documents (only allowed with access to Ericsson LAN and not for re-distribution) added