



Omni-ID Service Bureau Chip Encoding Options

Step 1. Selecting Chip Encoding Options

Step 1: Select Chip Encoding Options Help

Serialize using Decimal
 Serialize using Hexadecimal

Please enter your desired starting sequence number:

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What is Chip Encoding and why is it used?

Chip Encoding is the process of programming data into the EPC bank of the chip in the Omni-ID tag.

What is Searlized using Decimal and why/when would you select this option?

Typically the data programmed into a series of tags is serialized, so that each tag has a unique EPC and can be associated with an asset inline with a user defined process.

Decimal Serialization includes characters 0-9 only. This may be the correct option if existing software or systems can only handle these characters.

What is Searlized using Hexadecimal and why/when would you select this option?

Hexadecimal Serialization includes characters 0-9 and A-F. This is the default serialization for EPC compliant solutions, and maximizes the total number of assets which can be uniquely identified.

What is a Sequence number and what are the considerations around selecting your starting number?

The start value for the sequence will normally depend on tags and coding already in use in your solution.

If this solution is new and closed loop the start value might be as simple as 00000000000000000000000000000001.

If however an existing system is in place, the start value may leave off from the last EPC issued in a previous order.

Compliance with EPC standards should also be considered, in which headers and asset classes may be encoded into the data string.

Step 2. Barcode Options

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1D Code 128 Format 2D Datamatrix Format

8 Characters 24 Characters

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What is a barcode and how will it be used on-site?

Barcodes are often applied to Omni-ID tags to allow integration with systems in which RFID is only partly used, and barcode is used at other read points.

What is a 1D Code 128 Format used for?

When/Why would you select this option?

Explain that with this option you have two choices?
8 character or 24 character

If 1-D Barcode scanners are in use within the solution then a 1-D code 128 should be used. Due to the small size of the Omni-ID tag, nominally only the right most 7 characters can be included in the barcode.

What is a 2D Datamatrix Format? 128 Format used for?

When/Why would you select this option?

Explain that with this option you have two choices?
8 character or 24 characters.

If 2-D Barcode scanners are in use within the solution then a 2-D datamatrix should be used. As 2-D codes store data more efficiently, it is possible to include all 24 characters from the chip in the barcode.

Step 3. Human-Readable Information

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You may enter up to 20 characters of text

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What is human-readable information?

Where will the customer see this text?

How is it used?

Additional human readable text is used to add a limited number of words to the label. This might be to identify the asset owner, or a simple works instruction. For example 'Property of Omni-ID'

Questions? Contact an Omni-ID Representative.

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