



General Specifications Change Notification (GSCN)

WR #	GSCN Name	Effective Date
WR 25-266	Update to verification templates	Dec 2025

Associated Work Request (WR) Number:

Background:

In 2024, as part of the updates to the verification templates in the General Specifications standard print growth was added as a grade parameter in both templates. This is only a graded parameter for 2D and thus should possibly be removed from the 1D verification template. Additionally, there may be confusion on the X-dimension/cell size and the footnote related to this measurement in the 2D verification template. This work request looks to clarify the verification templates.

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**5.12.7.3 GS1 barcode verification template for linear barcodes****Example template:**

<Name> **Issue date:** <Date of issue>
<Line one address>
<Line two address>
<Town>
<Postcode>
Product Description: <Brand and name of product>
Type of barcode: <Barcode type detected>
Print method: <Print method>
Number of barcodes on product: <Number of barcodes>
Verifier device: <Type/model>
Verification software version: <Version>
Last verifier calibration date: <Date>

Please Note: These assessments are based on meeting the minimum GS1 standards.
To ensure efficient scanning, the barcode should exceed the minimum.

Testing summary of the linear barcode***GS1 General Specifications for linear barcodes tested environments:***

PASS or FAIL when verified in accordance with GS1 symbol specification table _____

Note: Provide symbol specification table name and table number used from the *GS1 General Specifications*. If barcode is tested against more than one symbol specification table, one report should be provided for each table.

Complies with GS1 barcode placement rules	Does/Does not comply with specification (& comment on business critical issue)
If multiple retail barcodes are present: Is the GS1 compliant two-dimensional barcode within a 50 mm radius from the centre of the linear POS barcode? (informative only)	Yes/No
ISO/IEC 15416 print quality grade	

Decoded text
Business critical comments



Technical analysis of the linear barcode

GS1 parameters	Comment reference	Assessed	Within standard range	Required	ISO/IEC parameters	Comment Reference	ISO/IEC grade 4.0 to 0.0	Within standard range	Required
Barcode structure					Overall ISO/IEC grade				
X-dimension (magnification)					Decode				
Barcode height					Symbol contrast				
Quiet Zone (left)					Minimum reflectance				
Quiet Zone (right)					Edge contrast				
Human readable					Modulation				
Barcode width					Defects				
Validity of GS1 Company Prefix					Decodability				
Data structure ¹ (syntax)					Print growth				
Print growth (+/- %) – Process control parameter									
Educational comments ²									

(1) Data structure (syntax) indicates that the barcode is compliant with GS1 data syntax rules defined in the *General Specifications*.

(2) Educational comments are based on the technical analysis of the barcode. In this comment box the operator comments on what the problem is and how to make the symbol better.

Notes (informative localised)

It is the responsibility of the GS1 identification licensee to ensure the correct use of the GS1 Company Prefix and/or the individually licensed keys and the correct allocation of the data content.

Rejection of products should not necessarily be based only on an out of specification results

Barcode verifiers are measuring devices and are tools that can be used for assisting in quality control. The results are not absolute in that they do not necessarily prove or disprove that the barcode will scan.

This report may not be amended after issue. In the event of a dispute over contents the version held at [TESTING AGENCY] will be deemed to be the correct and original version of this report.

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**5.12.7.4 GS1 barcode verification template for two-dimensional barcodes****Example template:**

<Name> **Issue date:** <Date of issue>
<Line one address>
<Line two address>
<Town>
<Postcode>
Product Description: <Brand and name of product>
Type of barcode: <Barcode type detected>
Print method: <Print method>
Number of barcodes on product: <Number of barcodes>
Verifier device <Type/model>
Verification software version: <Version>
Last verifier calibration date: <Date>

Please Note: These assessments are based on meeting the minimum GS1 standards.
To ensure efficient scanning, the barcode should exceed the minimum.

Testing summary of the two-dimensional barcode**GS1 General Specifications for two-dimensional barcodes, environments tested:**

PASS or FAIL when verified in accordance with GS1 symbol specification table _____
Note: Provide symbol specification table name and number used from the *GS1 General Specifications*. If barcode is tested against more than one symbol specification table, one report should be provided for each table.

Complies to GS1 barcode placement recommendations	In/out spec (& comment on business critical issue)
If multiple retail barcodes are present: Is the GS1 compliant two-dimensional barcode within a 50 mm radius from the centre of the linear POS barcode? (informative only)	Yes/No
Overall ISO/IEC 15415 print quality grade	

Decoded text
Business critical comments



Technical analysis of the two-dimensional barcode

GS1 parameters	Comment reference	Values	Compliant to standard	Required	ISO/IEC parameters	Comment reference	ISO grade 4.0 to 0.0	Compliant to standard	Required
Matrix size		NN X NN			Overall ISO/IEC grade				
X-dimension/cell size ⁽¹⁾		mm (inch)			Decode				
Data structure (syntax) ⁽¹²⁾				Dependent on structure encoded	Symbol contrast				
Validity of GS1 Company Prefix					Modulation				
Human readable					Axial nonuniformity				
					Grid nonuniformity				
					Unused Error Correction				
					Print growth (horizontal)				
					Print growth (vertical)				
					Fixed pattern damage				
					• Clock track and solid area regularity ⁽³⁴⁾				
					• Quiet Zones (QZL1, QZL2) ⁽³⁴⁾				
					• L1 and L2 ⁽³⁴⁾				
					• Format information ⁽⁴⁵⁾				
					• Version information ⁽⁴⁵⁾				

Educational comments⁽²³⁾:

(1) X-dimension/cell size is the average of both the x-dimension and y-dimension of the cell

(12) Data structure (syntax) indicates that the barcode is compliant with GS1 data syntax rules defined in the GS1 General Specifications or GS1 Digital Link URI Syntax standard.

(23) Educational comments are based on the technical analysis of the barcode. In this comment box the operator comments on what the problem is and how to make the barcode better by explaining the parameter's meanings.

(34) Data Matrix Only, see ISO/IEC 16022

(45) QR Code Only, see ISO/IEC 18004

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Rejection of products should not necessarily be based only on an out of specification results

Barcode verifiers are measuring devices and are tools that can be used for assisting in quality control. The results are not absolute in that they do not necessarily prove or disprove that the barcode will scan.

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