




PROCEDURES

GS1 DataBar Readiness Report

This report is designed to assist retailers and their scanner system suppliers in reporting their current capability for GS1 DataBar 2010 Readiness. Please report your company's status (from Headquarters level) for the six blank boxes in the GS1 DataBar Readiness Report below.

GS1 DataBar Readiness Report	Scanner Category	Description	Quantity of scanners in your company	GS1 DataBar 2010 Ready (%)
	Omni-directional Point-of-Sale Scanner	Scanners mounted in a retail check-out lane (in the counter top) so cashiers can read a high-volume of products quickly.		
	Handheld or Presentation Scanner in a retail store	Scanners moved to a product (usually held in one hand) or where a product is presented to the scanner, typically used in medium-to-low point-of-sale volumes, to read large or heavy items, and/or inventory control.		
	Scanners that scan trade items outside the store (distribution, warehouse, production, etc.)	Scanners such as handheld, presentation, conveyor mounted, or tunnel where trade items at consumer level, case level, pallet level may be scanned.		

For assistance with this report, please contact your local GS1 Member Organisation (<http://www.gs1.org/contact/worldwide.php>).



What Does GS1 DataBar 2010 Ready Mean?

Before filling in the six blank boxes, GS1 DataBar 2010 Readiness must be explained. The table below explains what is necessary for the different scanner components.

Component	Description	Resulting Data String	GS1 DataBar Ready Definition
Scanner hardware and decoding software	Optics and decoder to rapidly output data strings based on what is encoded in a bar code symbol	je00109501101420021 Where: je0 = Symbology identifier (or scanner-specific symbol identifier) 01 =GTIN Application Identifier 09501101420021 = GTIN-13 (with leading zero because GS1 DataBar carries 14 digits)	Scanner can output the data per: In-store scanners = Symbols 1-6 Fixed-mount scanners in retail distribution = symbol 4 All other scanners in retail distribution = symbols 1-6 Non-retail trade item scanners = symbols 1-9
Scanner-to-Application Interface Software	Converts raw data strings from bar codes into data that can be used in applications	09501101420021 if the application is looking for GTIN-14 9501101420021 if the application is looking for GTIN-13	Scanner software can fill the following fields: Retail scanners = Based on today's standards, only GTIN-13, GTIN-12, or GTIN-8 are used for retail consumer trade items so the scanner software must strip the zero in the 14-digit number when filling a 13-digit GTIN field. For applications in general distribution that also scan cases and pallets not sold at point-of-sale, the scanner software must be able to communicate any of the GTIN formats per the application requirement. Non-retail trade item scanners = Non-retail application standards require GTIN including GTIN-14 and at times additional attributes, therefore the scanner software must provide the data string without the Application Identifier in the application fields that match up with the Application Identifier (e.g., GTIN, lot number, expiration date, serial number, country of origin, weight, measure, quantity)
Business Application	The business software that uses the data for bar codes in transactions like point-of-sale, inventory control		No change is required in application level software unless GS1 approves new business application standards that require GTIN-14 or GTIN attributes (e.g., serial number, lot number, weight) based on a sound business case.



Steps to Assess GS1 DataBar 2010 Readiness

In the industry today, some trade item scanners are:

- GS1 DataBar Ready
- GS1 DataBar Ready but the feature is turned off
- Upgradeable to become GS1 DataBar Ready
- Not Upgradeable for GS1 DataBar and must be replaced

These procedures, when combined with the GS1 DataBar Scanner Test Card, are intended to help users assess their company's situation as it relates to the GS1 DataBar 2010 adoption date and report it. The report will be used by the industry to monitor progress each year.

1. Contact your local GS1 Member Organisation and your scanner system vendors to establish a project team that will accomplish the remaining steps.
2. For each of the 3 scanner types, create a spreadsheet with all the scanner makes, models, and software versions used by your company and record the quantity of units for each type.
3. For each make, model, and software version choose one or more units to test.
4. Working with your IT department and scanner vendor, place the scanner in "maintenance mode" in order to separate the scanner from active operation.
5. When in maintenance mode make sure the scanner's GS1 DataBar read function is turned on.
6. Scan each of the six symbols (except fixed-mount conveyor scanners in distribution environment where only symbol 4 should be tested).
 - a. Use the perforations to fold the Test Card such that only one symbol is visible to the scanner.
 - b. Scan the symbol and compare the displayed results to the data output shown on the test card for the matching symbol.

Note: Symbol 6 contains the AI 3922 and AI 422. Both are followed by additional AIs. Because both are variable length, a separator character is needed to mark the end of each data field. The data output shows this separator character as "<GS>". Your scanner's data output may show a different character in place of the <GS>.

Note: Data is shown in bold and underlined: the Application Identifiers (AIs) are in normal type. These are normally shown with the scanner output.
 - c. Repeat for each of the symbols appropriate to the category.
7. If the results match the data output, make a record in your spreadsheet that this scanner is GS1 DataBar capable.
8. If the results do not match, work with your scanner vendor to determine the reason, make adjustments, and retest.
9. If the store is not yet ready to read GS1 DataBar symbols, make sure to turn off the Scanner's read GS1 DataBar mode before exiting the maintenance mode. This will avoid delays due to unnecessary error processing.
10. In 2008 and 2009, update your survey results for all make and model scanners in your company.