Release Notes - DataMatrix Fonts & Encoder, version 5

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1. Description

This release notes cover release information for version 5 of Morovia DataMatrix Fonts & Encoder. Morovia DataMatrix Fonts & Encoder 5 provides DataMatrix barcode generating and printing functionality. User can use the software in standalone, or add data matrix printing to third party software such as Microsoft Office, Crystal Reports, and Microsoft SQL server reporting service. Significant new features include the following:

Version 5.2.0

- Updated the font with additional character mappings to work around printing issues under Crystal Reports RAS.
- Minor update on the documentation on SSRS 2012 and above support.

Version 5.1.0

- Added support on fine tuning encoder behavior. Allow user to specify the encodation mode selection method; and allow user to specify whether the encoder increases the size automatically if the size specified is too small. The support is implemented by enhancing existing size ID parameter.
- Added support to encode Unicode strings into a datamatrix barcode.

Version 5.0.x

- New font design. The font is compatible with a larger number of word processor and graphics design programs.
- Image creation support. This package allows your application to create image files directly, without the presence of the fonts.
- ActiveX Control. This package includes an ActiveX control that you can insert directly into Microsoft Office programs, such as Word and Excel. You can also use the control in your custom applications.
- 64-bit Crystal Reports support is added. Previous version can only be deployed on a 32-bit Crystal Report runtime.
- Support for Microsoft SQL Reporting Service, 32-bit and 64-bit are added in this version.

2. Updates After 5.0 release

Table 1. Updates in 5.2.2

Tracking Number	Description
827	Fixed a minor bug in Windows installer script.

Table 2. Updates in 5.2.1

Tracking Number	Description
566	Implement a workaround to Crystal runtime multi-threading UFL issue. When multiple threads calling UFL functions, the calls are mixed which results incorrect barcode string.

Table 3. Updates in 5.2.0

Tracking Number	Description
50	Implemented UFL function DataMatrixEncodeSetRAS for alternative character mapping to work around RAS printing issue (KB10052)
49	Adding KB articles on working with SSRS 2012 (KB10643 for report server, KB10642 for local report application)

Table 4. Updates in 5.1.0

Tracking Number	Description
RF60	Added support of the following encoder parameter through existing size ID parameter: (1) allows user to specify if the encoder increases size if it finds that the size specified is too small. (2) allows user to specify encodation mode. The latter is required to implement Royal mail MailMark barcodes.
RF61	Added support to encode Unicode strings into data matrix barcodes. Unicode is supported by converting it to a byte string according to the nature of the string. If all characters are inside ISO8859-1, the result is a byte string in ISO8859-1 encoding. Otherwise it is converted to UTF8 with BOM.

Table 5. Updates in 5.0.3

Tracking Number	Description
913	When data can be encoded with size id 29 (the highest rectangle shape), the encoder returns size 9 (the square shape), due to a flaw in size selection logic. Fixed.

Table 6. Updates in 5.0.2

Tracking Number	Description
894	PAD values are not randomized based on the recommended algorithm in ISO 16022. This behavior is not standard compliant but does not affect the scanning results.

Table 7. Updates in 5.0.1

Tracking Number	Description
781	Incorrect encoding occurs upon some data when the encodation method switches from X12 to another type different from ASCII. The barcode is readable, however the decode string does not match the original encoded.
782	The GUI encoder does not display the version of encoder DLL correctly. The incorrect version number 4.0.0 is displayed on the dialog.

3. Backward compatibility

Font is re-engineered in version 5 in order to with a large number of known word processor and graphics programs. As such, it is no longer backward compatible with early versions. The barcode string produced by encoder is not backward compatible with encoders in early versions. Version 5 can co-exist with early versions.