**Technical Guidance for 800x600 FlexPay IV Font Change**

**External Communication**

A change to Gilbarco provided default fonts included with M7 (FlexPay IV) software bundles for the ***Canadian market*** has been made in conjunction with support for the latest revision of M7 10.4” display hardware.

**Change Description:**

The following 10.4” display default fonts that were not previously TrueType have been changed from fixed size to TrueType (scalable size):

|  |  |
| --- | --- |
| **Already TrueType** | **Changed to TrueType** |
| Font 10 | Font 20 |
| Font 200 | Font 201 |
|  | Font 202 |
|  | Font 203 |
|  | Font 204 |
|  | Font 205 |
|  | Font 240 |

**Scope:**

Affects the **Canadian Market and the M7 10.4” display only**. For the US market all default fonts were already TrueType, and other markets are NOT affected.

**Timing:**

This change takes effect in Canadian M7 software bundles as follows, coincident with addition of support for the latest revision of M7 10.4” display hardware:

* Bundles based on Platform build 42/52.11.53 and future 42/52.11.xx versions (range 42/52.11.54 – 99)
* Bundle 05.13.02 and later (bundles based on Platform build 52.13.14 and later)
* Note: Bundles based on Platform build 52.12.xx do not support the updated 10.4” updates. Recommendation is to move to xx.13.14.

**Impact:**

The appearance of existing customer/partner created SPOT display content may be affected with text that is noticeably larger on the display, possibly overlapping other display content or extending off screen. As context for defining where this will occur, there are two options available for specifying which font will be applied to text rendered via the SPOT display interface:

*font* <fontid>, <color-r>, <color-g>, <color-b>

*ttfont* <fontid>, **<fontsize>**, <color-r>, <color-g>, <color-b>

The issue will occur when a M7 default font that was changed to TrueType (those highlighted above) is referenced with the *font* option, which results in use of a default True Type font size given the *font* option does not include a size parameter. This applies to 1) text embedded within SPOT Display Template resources (the most common use case) and 2) text dynamically rendered via the SPOT *Display String* or *Display String Enh* commands.

**Required Partner/Customer Action:**

Steps for Development Partners and Customers to ensure their custom SPOT display resources are compatible with the latest M7 10.4” display hardware revision:

1. Determine whether your Canadian Market custom SPOT Display resources are affected:
   1. Examine all Display Template resources (resource type 0x15) in your custom SPOT display resource set(s).
   2. **Any Display Templates that reference a Gilbarco provided default font that changed to TrueType (those highlighted above) with the *font* tag ARE affected and must be adjusted.**
   3. Note: If your custom display resource set includes font resource(s) (resource type 0x12) that are non-TrueType (fixed size), you may continue to reference them with the *font* option.
2. Determine whether your POS/EPS implementation uses SPOT protocol commands for rendering dynamic text:
   1. Assess whether the POS/EPS implementation issues either of the following SPOT protocol dynamic text rendering commands (section references correspond to the “Spot M7 Secure Protocol” specification): *5.3.36 Display String (0x30, 0x05)* or *5.3.42 Display String Enh (0x30, 0x0B)*.
   2. If the POS/EPS issues one or both of the dynamic text rendering commands, please submit a ticket via the Gilbarco SDK Portal to request further guidance.
3. Adjust any custom SPOT Display Templates that were identified as affected in step 1:
   1. Change the Display Template’s *font* entries to *ttfont* and perform testing to identify a *font size* parameter that produces desired results. Perform this testing with a lab simulator (TEST hardware) that has the latest M7 10.4” display hardware (800x600 resolution). Use the Gilbarco SDK Portal’s SSWA TEST resource signing function per normal process.
   2. After display resource adjustment is finalized, submit the adjusted resources for PROD signing via the standard process using the Gilbarco SDK Portal’s SSWA PROD resource signing function.
   3. If support is needed, please submit a ticket via the Gilbarco SDK Portal.
   4. Deploy the adjusted resources to all your Canadian market field (production) dispensers that have a 10.4” display (any 10.4” display revision).
4. Use the *ttfont* option to reference Gilbarco provided default fonts or custom TrueType fonts in all scenarios going forward:
   1. **The** ***ttfont* option is backward compatible with non-TrueType fonts** included with M7 software bundles prior to this change – the font size parameter is ignored in that scenario.
   2. The *Resource Studio* tool supports only the *font* option. **Display Templates produced by Resource Studio will need to be manually adjusted to use the *ttfont* option per step 3a.**

|  |  |  |
| --- | --- | --- |
|  | **Non-TrueType Font** | **TrueType Font** |
| **font** <fontid>, <color-r>, <color-g>, <color-b> | **✔** | **✖** |
| **ttfont** <fontid>, <fontsize>, <color-r>, <color-g>, <color-b> | **✔** | **✔** |