Subject: Windows7 compatibility
Posted by mdelfede on Mon, 27 Jul 2026 09:10:46 GMT
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Hi,

I recompiled my app for a customer and it complained about 2 missing functions: GetDpiForWindow and GetSystemMetricsForDpi.
I found that he's still using windows7 and that providing a workaround inside Win32Proc.cpp solves the issue.

I added this:

```
static UINT CompatGetDpiForWindow(HWND hwnd)
{
 typedef UINT (WINAPI *GetDpiForWindowFn)(HWND);

 static GetDpiForWindowFn fn =
  (GetDpiForWindowFn)GetProcAddress(
   GetModuleHandleA("user32.dll"),
   "GetDpiForWindow"
  );

 if(fn)
  return fn(hwnd);

 // Windows 7: non esiste DPI per-monitor.
 HDC dc = GetDC(hwnd);
 UINT dpi = dc ? (UINT)GetDeviceCaps(dc, LOGPIXELSX) : 96;

 if(dc)
  ReleaseDC(hwnd, dc);

 return dpi ? dpi : 96;
}

static int CompatGetSystemMetricsForDpi(int index, UINT dpi)
{
 typedef int (WINAPI *GetSystemMetricsForDpiFn)(int, UINT);

 static GetSystemMetricsForDpiFn fn =
  (GetSystemMetricsForDpiFn)GetProcAddress(
   GetModuleHandleA("user32.dll"),
   "GetSystemMetricsForDpi"
  );

 if(fn)
```

```
  return fn(index, dpi);

 // Su Windows 7 il DPI è unico per tutto il desktop:
 // GetSystemMetrics restituisce già le metriche appropriate.
 return GetSystemMetrics(index);
}
```

and replaced the few calls to the compatibility functions

Ciao

Max
