

## AqBanking - Bug #282

### Use OS-agnostic string comparison functions

25.08.2022 23:37 - wrobelda

<b>Status:</b>	New	<b>Beginn:</b>	25.08.2022
<b>Priorität:</b>	Normal	<b>Abgabedatum:</b>	
<b>Kategorie:</b>		<b>Anwendung:</b>	andere
<b>Betriebssystem:</b>	Windows	<b>Version der Anwendung:</b>	
<b>AqBanking-Version:</b>	5.10.1		

**Beschreibung**

This patch is dirty, not intended for merging, but I post it anyway so that it is clear what needs to be done.

Before I begin, it's important to remember that strings.h is not available on Windows (only string.h is).

What it does is:

- 1) it removes all explicit calls for inclusion of <strings.h>
- 2) removes all inclusions of <strings.h>, be it standalone or HAVE\_STRINGS\_H-guarded. The latter unnecessary, but was done to keep code clean, given the 3b) below
- 3) adds checks to configure.ac that determine which string comparison functions are available, i.e. POSIX or WIN API version, and:
  - a) add the relevant HAVE\_DECL\_STR\*CMP defines to config.h and defines POSIX names for equivalent WIN API functions.
  - b) includes strings.h if it's available. Since that's done in config.h, which is pretty much included in all source code across the board, all other <strings.h> usage was removed, as noted in 2)

As noted, this is dirty, but I did that to deal with this problem en-masse, as I was progressing towards obtaining a successful build with clang.

What I suggest to be done is to add wrapper methods for all these functions in gwenhywfar/text.h, akin to the existing GWEN\_Text\_strndup. This would probably be the cleanest approach and consistent with your existing code.

#### Historie

##### #1 - 25.08.2022 23:43 - wrobelda

- Datei 0001-Use-OS-agnostic-string-comparison-functions.patch wurde hinzugefügt

##### #2 - 29.08.2022 13:21 - wrobelda

One more thing that I realized is that the project could use gnuilib where relevant to provide the drop-in cross-platform compatibility — this includes MSVC compatibility as well: [https://www.gnu.org/software/gnuilib/manual/html\\_node/Native-Windows-Support.html](https://www.gnu.org/software/gnuilib/manual/html_node/Native-Windows-Support.html)

See e.g. [https://www.gnu.org/software/gnuilib/manual/html\\_node/strcasecmp.html](https://www.gnu.org/software/gnuilib/manual/html_node/strcasecmp.html)

Although the integration is not required, easiest way to use it is to literally include a subset of it with the source code (see the notes on the main website <https://www.gnu.org/software/gnuilib/>) and just use it as is.

#### Dateien

0001-Use-OS-agnostic-string-comparison-functions.patch	6,02 KB	25.08.2022	wrobelda
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