

\$\$GUI, \$\$GWW and TAP flags

1. Introduction

This note describes a change to \$TAP, \$DETAP and some of the GSM (Windows NT) TAPs to provide better differentiation between the various emulators available with GSM (Windows NT).

For the purposes of this document the GSM (Windows NT) Terminal Interface Class (TIC) is one of the following:

<i>TIC</i>	<i>Definition</i>
GUI-2	The special GUI-2 TAP (i.e. \$.911) has been loaded. This TIC is not described in any great detail in this note;
GUI	The user is running GSMWIN32.EXE (thin-client) or GLOBAL.EXE (fat-client) with a "GUI TAP" (e.g. \$.711, \$.714);
Text	The user is running GSMWIN32.EXE (thin-client) or GLOBAL.EXE (fat-client) with a "non-GUI, text TAP" (e.g. \$.716);
Console	The user is running GSMCONS.EXE (thin-client) or GLCONS.EXE (fat-client) with a "console TAP" (e.g. \$.730, \$.731);
Dumb	None of the above (e.g. Wyse-60, non-Global terminal emulator).

2. The current situation

The following System Area fields, derived from options in the TAP, can be used to differentiate between some of the TIC's.

<i>TIC</i>	<i>\$\$GUI2</i>	<i>\$\$GUI</i>	<i>\$\$GWW</i>
GUI-2	1	1	1
GUI	0	1	1
Text	0	0	1
Console	0	0	1
Dumb	0	0	0

The System Area fields are derived directly from the following fields in the various TAP's

<i>TIC</i>	<i>GUI-2 option</i>	<i>GUI option</i>	<i>GWW option</i>
GUI-2	Yes	Yes	Yes
GUI	No	Yes	Yes
Text	No	No	Yes
Console	No	No	Yes
Dumb	No	No	No

This situation does not allow a "Text" TIC to be differentiated from a "Console" TIC. This is an important omission as some special "GUI escape sequences are only supported on GSMWIN32.EXE and GLOBAL.EXE (see IN092 and Appendix M of the GUI Notes).

3. Proposed changes

A new keyword, GSMCONS, will be added to the "Console" TAP's (i.e. \$.730, \$.731 etc.):

<i>TIC</i>	<i>GUI-2 option</i>	<i>GUI option</i>	<i>GWW option</i>	<i>GSMCONS option</i>
GUI-2	Yes	Yes	Yes	No
GUI	No	Yes	Yes	No
Text	No	No	Yes	No
Console	No	No	Yes	Yes
Dumb	No	No	No	No

\$DETAP will set the System Area fields accordingly:

<i>TIC</i>	<i>\$\$GUI2</i>	<i>\$\$GUI</i>	<i>\$\$GWW</i>
GUI-2	1	1	1
GUI	0	1	1
Text	0	0	1
Console	0	0	2
Dumb	0	0	0

The proposed change only affects \$TAP, \$DETAP and the (relatively) few Console TAP's:

\$.730
\$.731
\$.732

\$.734

\$.735

The presence of the new "GSMCONS" flag in the TAP should set the #1000 bit in the CSDEV2 Device Characteristics Byte.