GFI 1.3.9E Known Issues

Document Purpose

GIT for Industry (GFI) is a software tool, provided by Smart DCC, for anybody that wishes to check whether their interpretation of the Great Britain Specification Companion for smart meters (GBCS) is consistent with Smart DCC's.

This document describes the known issues and limitations and corresponding solutions or workarounds for version 1.3.9E Stable Release of the GFI testing tool.

Warning: The user is strongly advised to review these known issues thoroughly before performing any update as existing information or functionality may be disrupted after performing the update.

If updating from GFI 1.3.*E or previous releases, please note that this release requires the new dual-band ZigBee USB dongle to operate with dual-band support. To operate in single-band mode it requires either the new Dual-band ZigBee USB dongle (recommended) or an old GFI 1.3.XE dongle provided that before being used the dongle firmware is upgraded to the new ZigBee stack version.

For technical support please contact the GFI Support Team: GFISupport@smartdcc.co.uk

Release Information

Version Number	Release Date
1.3.9E Stable Release	3rd October 2017

Report Date

This report presents the known issues and limitations at the date of 21st January 2020.

Before Updating GFI versions

The scenario file format in version 1.3.9E is incompatible with versions prior to 1.3.2E.

The user may still use the Export functionality for backup purposes – However, the tests will need to be re-created using version 1.3.*E or later of the tool.

Users updating from a GFI version prior to 1.3.2E are strongly advised to read the updated documentation in order to be familiar with the architectural and user interface changes, namely in order to configure and start the Communication Hub service.

Known Issues

This section describes known issues that users may run into with this release of GFI that will be fixed in future versions.

Reference	Description
G4I-3134	On CS01b response, GFI expects TOP_UP_RESPONSE.ZCL_PAYLOAD.CREDIT_REMAINING parameter to be a UINT32 value instead of an INT32.
G4I-2468	JoinMethod parameter in CS04 is incorrectly identified as an “Emulator” control parameter and is not visible by default. Solution: To show the JoinMethod parameter when editing a CS04 test case expand the “Iteration details – Emulator” section. Although not visible by default the parameter works as expected.
G4I-2079	Inconsistend test property names in GCS38 and GCS28.
G4I-2040	Usecase GCS21f and GCS21b does not detect malformed messages in Break-on-Error condition. The GCS21f responses checks do not fail when receiving unexpected non-alternate responses in break-on-error situations.
G4I-1475	Some dialog windows may not be displayed in the optimal size when the application is run for the first time. Solution: Resize the dialogs. After being resized, these dialogs will keep their size.
G4I-1473	When a CH configuration is imported from an XML file, the extension (.xml) is being used to form the name.

Known Limitations

This section describes known limitations that users may run into with this release of GFI. These limitations will not be fixed as part of any future release.

Reference	Description
G4I-3044	For a JSON value, if the test is sent with an empty JSON, it may fail.

	Workaround: Try to fill the field with "[ ]".
G4I-2540	GPF does not support the HAN command GetTariffInformation. Solution: The HAN command GetTariffInformation is not supported in versions 1.3.xE. The support for this command is however already present in the GFI 2.0.0.
G4I-2449	GFI is auto-correcting the encoding in alignment with IRP205 when it's not following the specification. Auto-correction of encodings not following the IRP205 does not take the signature validation into consideration, causing failure.
G4I-1476	When joining multiple devices at the same time it may happen that not all will be able to join. Solution: Add the second device only when the flag Authenticated for the first device appears as True in the GFI GUI.
G4I-1474	The GUI mandates that an active meter is specified in the scenario file. Even in the case when there is no such meter the fields (id and certificate files) must still be filled. Solution: Fill the required fields.
G4I-1472	The emulators do not fully support the CSR and certificate signing functionality of the use cases CS02c and CS02d. If a CS02d command contains a valid certificate, the response code will be SUCCESS and the emulator will update its certificate without further validation. This will cause a signature validation error if the payload of the CS02d is not a certificate already installed in the emulator. This does not affect the behaviour of the test cases when used in physical scenarios.
G4I-1468	GFI uses a set of example values as reference inputs for Use Cases iterations that may not have a functional meaning for the specific manufacturer's device under test. Solution: Users of GFI are requested to validate and modify if needed, the specific Use Case example values, prior to running it.
G4I-1466	It is not possible to rename files using the GFI GUI. Any change in file names or folders or in the structure of the eclipse workspace may render the GFI GUI inoperable. Solution: All files created using the GFI GUI should not be manipulated in any other way apart from using the options offered by the GFI GUI.

G4I-1465	GFI's GUI uses its own perspective and workspace. Although possible, it is strongly advised not to use GFI's workspace to hold any other files or folders other than GFI's. Solution: Do not use GFI's workspace to hold projects of any other type (e.g. C++), as these files might be lost in future updates.
G4I-1464	Performance issues were observed when the contents of the reports/logs/output produced yield very large file sizes. As the output varies depending on the chosen tests, care should be taken when building the test. Solution: To avoid performance issues that may render the tool unresponsive, the largest number of test-cases in one test should be limited. Editors or views not needed should also be immediately closed.
G4I-1463	When running the GFI GUI, it was observed that occasionally, upon starting the application, an error message was displayed stating 'No editor descriptor'. This may happen if the application was not closed properly in a previous execution. Solution: This error should be ignored and the Editor/View closed, after which the application can be safely used.
G4I-1462	1.0RC3 introduced changes in the file formats used, and as a consequence, properties and scenario files created using past releases are not usable anymore. Additionally, all test case specifications were revised, resulting in changes in parameter values/expected results and iterations. A test created using an older version may not necessarily yield the same outcome. Solution: Discard tests created with old releases and create new ones with 1.0RC4 or later releases instead. If needed, the export option is available for both tests and campaigns.
G4I-1460	The graphical test editor does not enforce any rules or make any validations regarding data entered in the fields. This means the user may enter invalid input data deliberately (e.g. to make the test fail deliberately) but should be extremely careful not to do so inadvertently, especially with enumerated and JSON fields.
G4I-1459	There is a known issue experienced on certain hardware configurations caused by the graphics drivers. The symptoms are that the installation completes successfully and the computer boots into the GFI Testing Application, however, upon the next boot the computer boots into a blank screen. This is caused by the need of proprietary drivers of the underlying Linux system for the graphics hardware. Solution: Currently, it is suggested that the user manually installs the relevant drivers upon the first installation. Due to licencing, these drivers cannot be distributed as part of the GFI

	Testing Application, but end users are free to download them. In the case of an AMD graphics card, please see the following link: [http://support.amd.com/en-us/download] In the case of an Nvidia graphics card, please see the following link: [http://www.nvidia.com/object/unix.html]