Danfoss PLUS+1 GUIDE Software

Release Notes

Risk Reduction

This file contains important supplementary and late-breaking information that may not appear in the main product documentation. We recommend that you read this file in its entirety.

Fixes to known issues in the tool will only be made in the latest version; previous versions will not be patched. Known issues that remain in the release are described in the section Important Advisory - Potential User Issues.

It is recommended to always use the latest released version to benefit from the latest improvements. If another version than the latest released version is used, carefully read the What Is Fixed sections for all later releases to understand what known risks that exists and need to be addressed.

For more details on risk reduction, see chapter Risk Reduction in PLUS+1 GUIDE User Manual.

Product License

Existing Users

After installing PLUS+1 GUIDE/Service Tool, your License Key is automatically activated in this version if your maintenance date covers the release date of this version.

New Users

The PLUS+1 software tool chain includes PLUS+1 GUIDE and PLUS+1 Service Tool. This powerful tool chain allows for the rapid development of mobile machine applications. A free Express license is available for all users. Professional developers will benefit from our Professional version that enables additional tools and libraries to speed up the software development process. Add-on modules are also available for the Professional version for an annual subscription fee so you can tailor the tool chain to meet your needs and only pay for the additional features you choose.

Professional License

PLUS+1 GUIDE and Service Tool Professional License can be ordered through your local Danfoss sales representative. After purchase, you will be sent an email with a Product Key that will allow you to activate a License Key. Please follow the instructions under Help in the License Manager.

Free Trial License

A free, time limited, trial license of PLUS+1 GUIDE and Service Tool Professional can be obtained using an automated sequence from the License Manager dialog. This license will allow you to try all features of PLUS+1 GUIDE and Service Tool (including add-ons). Projects created with a trial license will be tagged with a trial label and the use licensed content will disable save, edit, and compile rights when opened with an Express license.

Free Express License

A free Express license will also be issued when you request a free Trial license using the automated sequence from the License Manager dialog. This license provides basic functionality for developing PLUS+1 GUIDE and Service Tool applications using the latest release. Express licenses are valid for one year and users can request one Express license with each major release of PLUS+1 GUIDE and Service Tool.

GUIDE Add-Ons License (FuncSafety)

This is an Add-On license for GUIDE

- It has SAP number 11179525, GUIDE ADDONS LICENSE
- It enables
  - Version Control Support
  - Test Tool
  - Compare SCS
  - Dependency View
  - SIL2 Compilation
  - Traceability Properties
  - Static Analyzer

Integration: Simulink S-Function Add-On License (SimModel)

This is an Add-On license for GUIDE

- It has SAP number 11179531, GUIDE ADDON LICENSE_SIMULINK
- It enables
  - GUIDE-to-Simulink

Service Tool Add-Ons License (ST_Pro)

This is an Add-On license for Service Tool

- It has SAP number 11179527, GUIDE ADDONS ST_Pro
- It enables
  - CAN Xplorer design functionality
  - Scripting Toolbox design functionality

License Support

For general license related question, send an email to:
plus1license@danfoss.com
Support for technical PLUS+1 License related issues can be obtained by sending an email to:
plus+1helpdesk@danfoss.com

System requirements

	Service Tool Minimum	GUIDE Minimum	GUIDE/Service Tool Recommended
CPU*	64-bit (x64), 4 cores, 2012 or later		
OS**	64-bit Windows 10 (It is recommended to keep the OS up-to-date with the latest updates)		
UAC	Local Administrator Access is needed only for installation of the tools, not for running them		
RAM	4 GB		16 GB
HD	>10 GB Free, HDD		>10 GB Free, SSD
Resolution	1280 x 1024		1920 x 1080
Email	For license registration		
PDF	Any recent standards compliant pdf reader		
Web	Any recent standards compliant web browser (for HTML based F1 help)		
XML	MSXML 4.0 Service Pack 2 (Microsoft XML Core Services)		
.Net	N/A	Version 4 (Full) is needed for PLC code support in GUIDE	

* The CPU should be intended for at least laptop use. Processors designed for netbooks, tablets or similar are not recommended.

Version 12.1

12.1.7 (June 2020)

New Features and Functionality (see the GUIDE User Manual for more detailed information)

[F00502] **Feature extension:** Search Feature Extension 3
- The time spent for license check at start of compilation of applications with large modules has been significantly reduced.
- It is now possible to search for page properties Object, ViewLic and Library.
- The number of other pages in the same module that have the same LinkID as a certain page is now presented in the Page Properties search result tab as “References”.

[F00505] **Feature**: Chinese language support in GUIDE.
(Originally added for evaluation in GUIDE 12.0.6)

[F00518] **Feature extension:** Official support for external C-compiler Aurix.
(Originally added for evaluation in GUIDE 12.0.6)

[F00543] **Feature extension:** Updated User Interface, Part II
- The tool now supports DPI settings other than 100%.
- Includes updated icons, colors and general look.

[F00547] **Feature extension:** Misc. Wishlist Enhancements 12.1
Module Viewer:
- Added “Save As” functionality.
Compare SCS:
- Added option to display horizontal or vertical diff.
- It is now possible to select the type of difference to view for pages that have multiple types of differences.
- It is now possible to filter for any set of difference types.
Both Module Viewer and **Compare SCS:**
- Added “Reload” functionality.
- Added “Monitor for file changes” options.
Test Tool:
- When selecting pages to generate tests for, pages without any associated tests will be collapsed initially and “Check All” only checks all pages with tests.
- Test code generation for other pages now proceeds even when generation fails for certain pages.
- When running tests, the progress and test results are now visible and updating continuously.
- The words “Expected” and “Actual” are now used instead of the previous “Out” and “Meas” in the test tool UI. It is also allowed to use these keywords in Excel test definition files that are imported into GUIDE projects.
- Misc performance and UI improvements.
GUIDE:
- In the project manager tree, when selecting an output LHX file that was compiled in GUIDE

12.1 (or later), it is now possible to see Compile Time, as well as ROM, RAM and NV memory usage for that LHX. (Note: this information is cleared for projects that are packed to P1P format.)
- It is now possible to copy text from several dialog windows shown by GUIDE.
(W00415, W00596, W00602, W00686, W01023, W01024, W01053, W01080, W01096, W01103, W01112, W01119, P100002414, P100004724, P100005236)

What is Fixed

[P100005029] In some cases, an application could not be compiled when a CCP class component was placed later in the data flow than a function call component on that class instance.

[P100005120] Screen objects having their position controlled by a signal and their attachment point set to something else than apDefault did not behave as expected.

[P100005126] A bad error message was shown when attempting to compile a project containing a library widget from a missing library.

[P100005171] Code generated for the AF_SUB component has been updated to be compatible with the Aurix compiler. The compatibility issue did not affect any project using a released HWD file, but generated code will be different in some cases.

[P100005172] Code generated for the AF_RDIV and AF_MOD components has been updated to be compatible with the Aurix compiler. The compatibility issue did not affect any project using a released HWD file, but generated code will be different in some cases.

[P100005173] Code generated for the AF_DIV_B component has been updated to be compatible with the Aurix compiler. The compatibility issue did not affect any project using a released HWD file, but generated code will be different in some cases.

[P100005175] When a text definition of a screen object was changed so that a data value would become invalid, the value displayed in the Layout Pane was set to zero but the value in the inspector was not modified.

[P100005208] It was possible to drag Generic Viewport to a size larger than allowed by the HWD.

[P100005211] When compilation failed for a page to be tested in the test tool, there was no clickable link to the result file for that page.

[P100005244] Images inside an image list having Image Size set to Aspect Ratio Preserved were not aligned to the attachment point of the image list.

[P100005268] Compilation could hang when project files were missing.

[P100005272] Compilation could could hang when certain project files were unsaved and compilation was initialized by shortcut key from the PLC editor.

[P100005279] It was not possible to use Compare SCS to compare read-only pages' page-interfaces.

[P100005291] When working with multiple monitors with different DPI settings, dragging the C Editor from one monitor to another could trigger an error message.

[P100005299] SVG images with certain fonts were displayed with the wrong font.

[P100005309] Using POU interface variables of type “array of string” would prevent compilation from succeeding.

[P100005315] It was not possible to generate a test case from a page with a string signal in its interface if that string signal was used inside the page.

[P100005317] Unconnected bus ports in referenced pages could prevent projects from compiling.

[P100005335] Using the zoom menu in combination with graphical POUs and Page interface editor could cause GUIDE to not be able to close properly.

[P100005340] Minimizing the search window while debugging could lead to it becoming unusable until GUIDE was restarted.

[P100005345] Clicking the Save button multiple times in the Save As dialog could lead to an error message being displayed.

[P100005355] Deleting the Screen and Application log Repository would lead to loss of delete functionality for certain other project files until project was re-opened.

[P100005361] It was not possible to generate test code from code calling a module containing a scalar bios signal.

[P100005368] Certain sequences of resizing the Test Tool window could lead to it no longer responding to user input.

[P100005370] It was not possible to debug an application with application id containing quotation marks.

[P100004499] It is now possible to give a PLUS+1 GUIDE project the name “TextData”.

[P100004503] Reserved words in C and some other characters as interface names caused unnecessary name changes in TestTool

[P100004700] An error message was sometimes shown when connecting a previously existing (but not connected in any end) net to a bus.

[P100004942] When displaying a string a widget connected through an input signal, it might have been shorter on the display than in Vector-Based Screen Editor.

[P100004978] An uninformative error message was shown when using STRING data type in a module bus.

[P100005123] Compiling a project with a new and never opened SFC POU could lead to an error message being displayed during the compile process.

[P100005135] When comparing enum values in PLC code, a warning message was emitted by the C compiler.

[P100005152] Links in a function library could trigger error messages when used.

[P100005154] The 'Page Editor' icon was incorrect.

[P100005167] The dialog for creating new C code entry points was cut off for some DPI settings in Windows.

[P100005168] Individual text definition translations were not shown in the replacement tab of the search and replace dialog.

[P100005170] It was not possible to expand certain nodes in the VBSE Screen Manager tree view in certain situations.

[P100005174] It was difficult to dock undocked side panels in certain situations.

[P100005183] The checkboxes in the 'Generage Test Code' dialog had incorrect look.

[P100005194] The wrong icon was displayed in certain situations when the compilation failed.

[P100005197] Some texts in the Project Files dialog had the wrong foreground color in Dark theme.

[P100005226] GUIDE did not retain the latest used New Project path.

[P100005227] GUIDE did in some cases add "\Danfoss\PLUS1\GUIDE\" to the latest used New Project path.

[P100005232] The language dependent font list in the text definition object list did not have scrollbars when needed.

[P100005234] When replacing language dependent fonts, items in the replacement list that were not selected might have been replaced.

[P100005237] For certain components, the query dialog was too narrow to fit the entire dialog caption text.

[P100005240] Selecting Default Layout in GUIDE when the GUIDE window was placed on a secondary monitor resulted in an incorrectly positioned GUIDE main window.

[P100005242] The visualization in the the PLC/C editor was not correct in all situations.

[P100005245] When using the query dialog to change an autotyped constant to a typed constant, the type was always changed to '?'.

[P100005247] The wrong icon was used when dragging an image from the Selector panel to the screen definition in the VBSE.

[P100005253] The Query Screen Component dialog had some graphical issues.

[P100005262] When several text objects were selected in Vector-Based Screen Editor and the font size was changed in the font menu that is opened via the inspector, not all text objects were updated.

[P100005265] When importing test definition Excel files, there was no good error indication to let the user know about CAN messages mismatches in the file.

[P100005290] Debug net values were not always shown in modules.

[P100005301] A different error message than the correct one was shown on compilations where the correct target part number was not specified.

[P100005305] It was not possible to debug an application containing a screen definition with language dependent fonts.

[P100005316] When expanding a node in the Component tree or Project Manager tree, in some situations a different node in the tree would be selected.

[P100005319] The file path drop-down list in Open/Save file dialogs was not styled correctly in dark theme.

[P100005321] The save button in the test tool was always enabled, even when there were no unsaved changes.

[P100005322] Generate Test Code in the test tool could trigger an error if no page was selected.

[P100005339] It was hard to see where the items would end up when using drag-and-drop to restructure the screen library in Vector-Based Screen Editor.

[P100005343] The link of the error message caused by Show Screen/Write Applog components with unconnected SHOW/ENABLE inputs was incorrect.

[P100005357] GUIDE did not check for malformed UTF-8 sequences in STRING constants.

[P100005374] GUIDE did not respond correctly to the Windows “Tile” command.

[P100004491] Incorrect preview for the graphical component “Write Applog”.

[P100005127] Error message links to object pages did not work.

[P100005136] Progress form was displayed as separate form in task bar.

[P100005138] Some texts were not fully visible in the Options dialog.

[P100005156] There were some graphical issues in the Test Tool result tab.

[P100005213] The project manager flickered in certain situations.

[P100005217] The project manager panel had some graphical issues when it was undocked.

[P100005219] Undocked panels got wrong positions after changing theme.

[P100005229] The text definition editor did not have scrollbars in certain situations.

[P100005250] When starting GUIDE without a sufficient license, the license manager was always displayed using the light theme.

[P100005266] When the name of a screen object in Vector-Based Screen Editor was changed via the Common Properties dialog, its new name was not shown in the screen manager tree unless the project was reopened.

[P100005271] When the width of a video input frame in Vector-Based Screen Editor was set to an invalid value in the Common Properties dialog, no error message was shown and the value was silently reverted.

[P100005278] The auto pop-up delay setting also affected hints.

[P100005289] Debug net values were not always cleared after exiting debug mode.

[P100005292] Using the zoom buttons on the toolbar could block or delay other commands from being executed.

[P100005342] The scrollbar in the Browse for folder dialog (from Create New Project dialog) was not styled correctly in dark theme.

Important Advisory—Potential User Issues

- **Components**
  - The CAN components are always processed on each loop. This is true even when the CAN components are placed in a module and that module is not called by the main loop.
    Workaround: Only use CAN components in modules that are always active each loop, such as the main module, or modules called with constant true from the main module.
  - Components without output types (e.g. Hardware Input) cannot be directly connected to a class instance. This will generate a compile error.
    Workaround: Use a retype connection in between.
  - A compile error may be generated when an autotyped constant is connected directly to an object page.
    Recommendation: Use a Typed constant.
  - When connecting the bus output from any one of the following components: “Call Method Of Externally Defined Class”, “Call POU”, “Show Screen”, “Write applog” and “Module Bus Input” to the input bus of the “Module Bus Output” component, only the signals that are actually connected in that module will be available in the module bus. (P100002771).
    Workaround: Use a dedicated bus for module connections. Do not connect it to other buses.
  - The “Module Bus Input” and “Module Bus Output” components do not support bus-in-bus.
    Workaround: Use one module bus for each sub bus.
- **File Formats**
  - Due to new features affecting the P1X format, GUIDE version 8.1 and earlier will not open P1X files saved with GUIDE version 9.0 and later.
    Recommendation: Always back up project files before opening them in a new version of the tool.
  - Due to new features affecting the SRD format, GUIDE version 9.0 and earlier will not open projects containing Vector-Based Screen Editor Screen and Application Log Repository saved with GUIDE version 9.1 and later.
    Recommendation: Always back up project files before opening them in a new version of the tool.
- **OS and other environment considerations**
  - Defects in the old TI compiler 4.1.3 that are not restricted to a single component and cannot be resolved in the code generator have been identified. [P100003895]
    (Since the 9.0 release this compiler has been deprecated, which means that it will not be maintained to fix potential defects in the code generation or be verified as part of the GUIDE development.)
    In a later release, the support for this compiler will be completely removed.
    Recommendation: Update the HWD file to the latest version if your project is still using this old compiler version.
  - Old TI compilers (5.2.5 and older) occasionally have problems with extremely long compile times. This is no longer an issue when using newer TI compilers (6.4.9 and newer).

Recommendation: Update old projects to use HWD files designed for TI compilers newer than version 5.2.5.

- A defect in an external C compiler (GCC 4.1) related to the use of too many function arguments has been identified. (P100004409) (P1DPx00000664)
  When too many function arguments are used, incorrect machine code is generated by the C compiler.
  GUIDE graphical code is not affected by this issue, but PLC code, CCP code and C code are all in scope.
  All current DP200 HWDs are affected by this.
  The current understanding of this defect is that it should not affect code that is limited to a maximum of 4 arguments, each of which can fit into a register.
  Recommendation: Do not use more than four 32-bit arguments in functions for PLC code, CCP code and C code.
- Projects put in the Download folder (or similar special folder) might not compile successfully depending on IT policies (P100004993).
  Workaround: Use another folder.
- If you are experiencing problems accessing network locations, then please make sure you are not running as admin.
- If the Windows PATH environment variable contains paths to folders that contain executables with names that conflict with names of standard Windows commands, such as “echo”, compilation might fail without any clear error message. (For example, a standard MinGW installation might add a folder containing an incompatible binary named echo.exe to the PATH.) (P100003153)
  Workaround: Temporarily, or permanently, remove such folders from the Windows PATH. (Alternatively, rename or remove the incompatible executable files from those folders.)
- The application title bar might not be fully visible in certain situations when multiple displays are not aligned and the Windows taskbar is top aligned.

- **License**
  - Using GUIDE without a license is no longer supported since version 9.1.
    Recommendation: Use the license manager to request a free Trial/Express license.

- **Installation**
  - The user must exit GUIDE to install/uninstall other GUIDE versions.
    Recommendation: Close all open programs before installing the tool.

- **Project handling / Compilation**
  - GUIDE cannot handle non-Latin characters in project folder names.
    Workaround: Use characters ’a’-’z’ in paths.
  - UNC paths are not supported as project folders.
    Workaround: Use paths with mapped drive letters instead.

- Spacing in file names:
  Some issues have been found in projects where file names have double spaces.
  Single spaces in file names are not known to cause any problems, except when they are placed first or last in the name (affects some HWDs).
  Workaround: Only use single spaces in file names, and avoid leading and trailing spaces.
- In projects using several modules and objects, the Compile changed command can end with a failure. [P100001612]
  Workaround: Use Compile All if this happens.
- A change in an array file might not be detected in a Compile Changed operation.
  Workaround: Use Compile All when an array file has been updated.
- When working with projects that contain a high number of files, or files with very long file names, and the sum of the lengths of the file names of these files exceeds thirty thousand characters it is possible that the C linker fails to link the project. (P100002678)
  Workaround: remove or shorten the names of the project files until the total length of file names are well under thirty thousand characters.
- Obsolete components errors, such as for example: *** ERROR 362 *** [chpargu1] COMPONENT: {Receive CAN with Filter}, VERSION: {101} IS OBSOLETE, can sometimes occur when starting from an old SCS template or project file and dragging in a block of code using a newer version of that same component. [P100003291]
  Workaround: Remove the code, or block of code that gives the error, then add the latest version of that component by dragging it in from the Component tree. Doing this will update the SCS file to use the latest version of the component the next time you drag in the same block of code.
- The P1P file format is designed to work with project files with names consisting of Latin1 characters. If a GUIDE project (P1X) contains files with other Unicode file names, then packing to P1P will not be possible. In older versions of GUIDE, there was a risk that such files could be packed into a P1P regardless, which could then lead to file name corruption and a P1P file that was not possible to open [P100003516]. Such P1P files can now be unpacked, and corrupted file names will be renamed to the closest possible valid file name. This means that the project must then be manually updated to re-establish the project file references.
- If a GUIDE project (P1X) contains files with a file size exceeding 250MB, then packing to P1P will not be possible.
- In some cases, for example after a “Save Project As” operation, it might happen that page names are temporarily not displayed correctly: Instead of the actual page name, the placeholder text “PAGENAME” is displayed.
  Workaround: Make any change of the SCS (for example move something) and save the SCS. The correct page names should now be visible again.
- Compiling in network folders is possible as long as the path is mapped to a drive letter, and the network connection is 100% reliable. If the network connection is not 100% reliable, compilation will probably fail, or at least be significantly slowed down.
  Workaround: Preferably compile projects in paths that are local to your PC.
- Compiling in folders which are synced to network locations or other backup mechanisms is not recommended because it might interfere with the compilation process, and will usually slow it

down significantly as well.
Workaround: Preferably compile projects in paths that are not synced or interfered with by other programs.

- If there is any error message displayed during the compilation, there will normally not be any output file generated. In some cases where the compilation has been interrupted by an external exception it can happen that the error is not detected. This can happen when performing a Compile Changed.
  Workaround: If there is any error reported during compilation, you should restart GUIDE and delete any remaining LHX file that might exist in the project folder.

- **Screen Editors and Application Log**

  - In the text editor, strings longer than 509 characters in Classic Screen Editor and Application Log may not compile.
  - Compatibility issues involving display projects using non-Roman fonts created in GUIDE version 3.0 may occur. It is strongly advised that the user make a backup of these files before using GUIDE 7.0 or later and contact the PLUS+1 GUIDE Help Desk for further information before proceeding.
  - In the Vector Based Screen Editor, when transparence has been selected by clicking on a specific pixel in an image, and that image is then scaled, it is possible that the transparent color will change. Furthermore, it is also possible when the image is scaled to a smaller size that the selected pixel position will end up outside the image.
    Workaround: use images where the transparency data is part of the file format (such as .png) instead.
  - In the Vector Based Screen Editor, some Unicode characters will be displayed correctly in the preview, but will then only be displayed as squares on display hardware.
  - In the Vector Based Screen Editor, using copy+paste on screen definitions only works within a single project, not from one project to the next.
  - Ligatures are not supported in the screen editors. As a result, some languages (such as Arabic) will not be rendered correctly.
  - In the classic screen editor, characters of fonts having a large horizontal extension may not be correctly displayed on the display unit.
  - In the Vector Based Screen Editor, the ScaleSize property does not work as intended for text components.
  - In both screen editors, texts and lines might not be displayed correctly when zoomed.
  - In the Vector Based Screen Editor, search and replace for some screen library items becomes ambiguous if there are items in the same folder that matches case-insensitively. Search operations will work correctly in this case, but the search result hyperlinks may not target the correct screen library item. When replacing, it will only be possible to replace one of the matching items and which of the items that will be replaced is not guaranteed. The items affected by this are Image Definition Description, Image List Description, Text Definition Description, and Text List Description.

- When importing screen definitions containing POU calls, included POUs will be imported even if they already exist in the project.
- It is not possible to add a single code point in the range 0x80..0xFF to the code point set. A workaround for this is to add the entire range 0x80..0xFF. This range is a subset of the predefined Latin code point set.

- **Test Tool**

  - To ensure that referenced pages will have identical test interfaces, there has been a change made to the test definition interface in GUIDE 9.0. Test definitions created in GUIDE 8.1 or earlier might need to be updated to cope with this change. [P100003817]
  - All signals passed through the interface will be of variable type. This means that components that require constant type on an input need to have the constant set from within the tested page.
  - Structural test coverage is not measured by the Test Tool. But for the graphical code in PLUS+1 GUIDE statements coverage is implicitly covered within one module.
  - It might not be possible to generate test code for projects that are already on the edge of running out of memory when compiling.
    Workaround: Split the project into smaller modules.

- **PLC Code Editor**

  - Double-width Unicode characters used in comments in the PLC Code Editor can be displayed in a way such that they appeared to be clipped.
    Workaround: Place a number of whitespace characters after comments that are displayed as clipped, until they are displayed correctly
  - The auto-routing of graphical code in FBD/LD/SFC code will not work properly if any of the components have been rotated or mirrored.
    In general it is not recommended to rotate any components since they are designed to fit in to the flow of the diagram, and any rotation will make the code harder to understand for other developers.
    Solution: Do not rotate or mirror any components.
  - MC0xx-0xx units do not fully support the LREAL (also called F64 and double depending on language used) data type. The range and resolution is the same as the REAL (F32/float) data type. Comparing with INF and NaN will not work correctly with this data type on MC0xx-0xx units.
    Workaround: Do not use LREAL data type on MC0xx-0xx units.

- **Hyperlinks**

  - If a dialog is open in PLUS+1 GUIDE while a plus+1 hyperlink is followed, an error message is shown stating that the dialog must be closed before the command (i.e. following the hyperlink) can be performed. This error message may appear beneath the dialog. Workaround: Move the dialog, close the error message, close the dialog and then follow the hyperlink again.

- **Static Analyzer**

- If Static Analyzer reports: *** ERROR 401 *** [STATICANALYZER] LOADING DLL {vizzanalyzer-libinterop.dll} FAILED. This indicates that runtime components are missing.
  Workaround: Run ../Misc/vcredist_x86.exe to install Visual C++ redistributable package.

- **Compare SCS**

  - Pages that has content difference only in a sub-page are not necessarily displayed as having a content difference in the cad area. The tree view still shows a content difference.

- **Search**

  - When searching in a file structure containing projects saved with a newer version of PLUS+1 GUIDE, the correct number of search hits may not be found for those projects.

Product Information on the Web

For technical support, visit the Danfoss support pages:

powersolutions.danfoss.com/Products/MobileElectronics/PLUS1Guide/PLUS1GuideSupport/index.htm

Telephone support:

North America: 1.888.50PLUS1 (+1-888-507-5871)

Europe: +46 10 44 00 300

China: +86-21-3418-5288

Email support: plus+1helpdesk@danfoss.com

PLUS+1 Forum: http://www.plus1forum.danfoss.com/index.php

Please report all suggested enhancements and great ideas to:

PLUS+1 Help desk

Please report all defects to:

PLUS+1 Help desk

Many thanks for all of your support.

The System Development Tools Team.

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