



FIELD COMM GROUP™

*Connecting the World of
Process Automation*

**Release Notes – FDI Package
IDE**

FCG PS10008-3, 1.1.6

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TABLE OF CONTENTS

1. System Requirements	6
2. Additional required software components (separate installer).....	6
3. Additional required hardware components	6
4. Component Versions.....	6
5. Capabilities	7
6. Known Issues.....	7
7. Reporting Problems and Suggestions	8
ANNEX A. Revision History	10

Preface

Release Notes for the FDI Package IDE (FCG PS10008-3) has been created to support the development of the FDI Package IDE (FCG TK10009) for release 1.1.6.

Introduction

The FDI Package IDE makes writing, testing and packaging of your Device Package files easier (DDs, UIPs, attachments) and more efficient since important tools you need are available in one application. You no longer need a separate editor, tokenizer, and viewer since the applications have been combined. Also, the IDE has some additional features such as a powerful editor with standard and customizable code templates, project tree, powerful dictionary support for different languages and good search.

1. System Requirements

- Microsoft Windows 7 and Windows 10 (32 Bit / 64 Bit variants supported)
- Eclipse Package (Recommended is “Eclipse IDE for Java Developers” based on Mars.2 Release 4.5.2 with build id 20160218-0600) or [LINK](#)
- Oracle Java-Software Version 7 Update x (Java Runtime Environment)
- Free space on hard disk (approx. 700 MB)
- 1-GHz-Processor (2 GHz recommended) or better with 32 Bit (x86) or 64 Bit (x64)
- 1 GB RAM (32-Bit) or 2 GB RAM (64-Bit)
- USB Interface (HART, PB, FF)

2. Additional required software components (separate installer)

- Not Applicable

3. Additional required hardware components

- HART Modem USB (Mactek 010031 or ProComSol HM-USB-ISO) [LINK](#) or [LINK](#)
- Foundation Fieldbus Interface NI USB-8486 781160-01 [LINK](#)
- Profibus Interface Softing PB-USB [LINK](#)

CAUTION:

- Please uninstall all previous versions of FDI Package IDE before installing this version!
- Please delete FDI file from “C:\Program Data\FDI” before installing FDI Package IDE!

4. Component Versions

The FDI Package IDE is one part of FDI components. An overview about all FDI components and their versions is available in file “FDI_Package_IDE_IntegrationVersionMatrix_1.1.6”. This document is available as part of the FDI Specification Version 1.0.

Below you find a part of main components and their versions that are integrated in the installer.

Component	Version
Eclipse IDE Plug-In	1.3.6
Reference Run-time Environment	1.1.6.8456
Device Model Services	1.1.6. 8456
EDD Engine	3.0.1
UI Engine	1.1.15
HART Tokenizer	10.17
PROFIBUS Tokenizer	1.3.10
FOUNDATION Fieldbus Tokenizer	6.1.1 build 1035

Device Package Conformance Test Tool	1.1.1
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5. Capabilities

A common overview about supported or planned FDI technology feature is available in file “FDI_2036 ValidationStatus V1.0.2” This document is available as part of the FDI Specification Version 1.0.

6. Known Issues

ID	Issue Description
Reference Run-time Environment	
1	managed DLL are built for .NET FULL Framework instead of .NET Client Profile Framework for unknown reason
2	#1196 - Reference Run-time Environment does not implement Forward Compatibility or Generic DD functionality
3	#1406 - Device Configuration must be reset after every reinstallation of software
4	#1738 - Edit of Local Variable makes "apply" and "revert" buttons visible and active in host
5	#1869 - As a Package developer, I want to test EDD FILE constructs in FDI Package IDE
6	#1949 - Support new version of FDI catalog schema
UI Engine	
7	#1466 - Display Message built in does not execute control sequences correctly.
8	#1729 - HQAGPH17060 Pan beyond scale is not possible
9	#1873 - Label shall be shown complete when enough space is available
Device Model Services	
10	#957 - 513: HQAENV20000: Bit-enumerated actions aren't supported
11	#1263 - HQAVAR11010 & HQAVAR11020 After value modification the ""Cond validity"" Menu item appears.
12	#1666 - APP_OO_UD_0710 and APP_OO_UD_0210 - Result parameters are not changed on use of 'download/upload_to_device_root_menu' instead of 'upload/download_variables' menu
13	#1689 - HQACMB18020: The DD Host displays an unexpected abort message

14	#1781 - Templates - Completion of implementation
15	#1795 - FF ST REV not implemented
16	#1841 - IUpDownloadDialog shall provide error ID that host can work with messages
17	#1848 - Crash during Close of application window.
18	#1909 - ENV15020 : The value of the menu item ""Post Write Action Value"" does not get sent
19	#1930 - SPECIALIST Attribute is not generated for Actions in UID
20	#1942 - Newly valid variable should be initialized to Uninitialized value
21	#1944 - Methods during upload must access offline data set
22	#1950 - UIB30030-009 - The help strings do not match.
EDD Engine	
23	#41 - Interface method return codes
24	#621 - EDD Engine error codes are not accessible through EDD Eng...
25	#1150 - GetBlockDir API missing on EDDEngine interface
26	#1797 - Improve documentation
27	#1838 - EDD engine writes Logfile to root directory of drive C:
28	#1924 - Need to support Expression_List references in Templates
HCF Tokenizer	
PB/PN Tokenizer	
FF Tokenizer	

7. Reporting Problems and Suggestions

Technical Support is available by web form http://www.fieldcommgroup.org/org/contact_form.html or by calling FieldComm Group support line at +1-512-792-2301.

Problem reports should include:

- System Configuration (CPU/speed, amount of RAM, OS version).
- Detailed problem description (include exact error message text).
- Exact steps to reproduce the problem.
- Log files, screen captures, and other information to identify the issue
- Files necessary to reproduce the issue

ANNEX A. Revision History

A.1 Revision 1.1.6

Major update of the FDI Package IDE r1.1.6.

Changes to previous version

ID	Issue Description
IDE Plugin	
Reference Run-time Environment	
1	#692 - CancelBrowse, CancelRead, CancelWrite not working
2	#1739 - UIP opened from online menu cannot access offline data and vice versa
3	#1922 - Templates will be supported with simple references
4	#1901 - Default FF Device Address Should Be 247
5	#1824 – Loading of UIPs with wrong reference
6	#1923 - Support of different EDD Languages
7	#1982 – CancelBrowse, CancelRead, CancelWrite raise exception in error case as defined in specification
UI Engine	
1	#1933 - Cannot edit value with required precision
2	#1964 - HQACHT45010 limit lines are not shown on HBAR when common axis does not define min/max
3	#1903 - FDI-H-3.3-063 - inconsistent handling of out-of-range inputs for DATE and DATE_AND_TIME parameters
4	#1951 - UiEngine(UipManager) should allow maximum two instances of the same UIP type.
5	#1650 – No Format Scaled Int failure
Device Model Services	
1	#1904 - FDI_H-3_3_063 - incorrect handling of out-of-range value input for TIME_VALUE(8) data type

2	#1917 - Stack Overflow when executing Read for a large number of Parameters.
3	#1910 - Default value out of range
4	#1918 - Application does not show any device values for KROHNE Optiwave
5	#1919 - Crash after opening a graph on METSO device
6	#1856 - ParameterInputRequest does not read the value from the device
7	#1902 - FDI_H_4_18_777 - application crashes after selection of template in the menu
8	#1891 - BUI10030-029 "?" incorrectly displayed on NaN value
9	#1936 - NodePath allows no access to 'upload_from_device_root_menu' or 'download_to device_root_menu'
10	#1900 - FDI_H_3_3_056_PA - NaN value is not correctly displayed
11	#1915 - NodePath allows access to 'upload_variables', but not to 'download_variables'
12	#1872 - TC_MN_018 - label for Block Mode.Target
13	#1825 - UIP Node path format is wrong for FF protocol
14	#1912 - Bitmask handling throws exception
15	#1946 - HQUAIB20320-003 and HQUAIB21320-003 - After method execution the string message does not display a static (non-changing) floating point value
16	#1953 - Download picks wrong command to write unit variable for KROHNE device
17	#1760 - HQAVAR13210 and HQAVAR16020: Unacceptable Values Accepted by FDI Host
18	#1979 – Enumeration entries cached in case of partial bit mask during communication
EDD Engine	
1	#1940 - Method Interpreter stops application after buffer overrun
2	#1911 - HQUAIB10100-001 - The Host returns an unexpected value in the message
3	#1954 - Crash in EDD Engine method thread when method without UI built-ins is cancelled

4	#1865 - UIB30000-007 - After clicking on abort, the method goes in an infinite loop
HCF Tokenizer	
1	#1950 - FDI Tokenizer 10.14 - unbounded device lists do not appear to be encoded in the Item to Command Table
PB/PN Tokenizer	
1	#1792 - builtin To_Date_and_Time() is changed, but not reflected in FDI PB/PN Tokenizer
FF Tokenizer	
1	#1952 - FF Tokenizer is not encoding "Status-Class" correctly for Bit-enumerated variables.
FDI Package Conformance Test Tool	

A.2 Revision 1.1.5

Major update of the FDI Package IDE r1.1.5.

Changes to previous version

ID	Issue Description
IDE Plugin	
1	"Supported FDI Version" is now "1.0.1"
2	#1877 – Logos updated
Reference Run-time Environment	
3	#1399 - Support for GetHealthStatus feature
4	#1033 – Multilanguage is supported. Could be configured in FDI Reference Run-Time Environment configuration.
5	#1819 - UIP HART direct access does not work with "sendData" element
6	#1852 - UIP ProfiBus direct access does not work with "sendData" element
7	#1820 - Direct Access Transfer service not returning all received data in HART
8	#1833 - About Screen update

9	#1877 – Logos updated
10	#1811 - FDI Package for HART 7 devices does not match ident check
11	#1818 - Renaming of offline context menu
UI Engine	
12	#1457 - HQACHT19000 Test case expect chart length as 1 minute but RRTE shows as 2 minutes.
13	#1509 - HQAMLT16030 column break is not considered prior placing an implied row break.
14	#1714 - HQACHT40040 Order of variables is wrong in horizontal/vertical bar charts
15	#1754 - HQACHT40000 Horizontal chart labels are not displayed completely and cut with "..."
16	#1755 - HQACHT50070 Legend is not shown completely
17	#1791 - The complete Enumerated Value is unable to be displayed in normal display (non-edit) mode
18	#1817 - Pencil-icon and dependency-icon tool tip text in Offline mode
19	#1826 - Incorrect handling of SPECIALIST flag in UI
20	#1847 - Large window for a single variable
Device Model Services	
21	#1561 - FF built-in send_value, send_value2, read_value and read_value2 does not support RECORD or ARRAY as complete element (MEMBER_ID=0)
22	#1813 – Support for GetHealthStatus
23	#1033 – Multilanguage support for EDD Items
24	# 1540 – Release all allocated memory
25	#1841 - IUpDownloadDialog shall provide error ID that host can work with messages
26	#1546 - (Legacy) Read operation is slow than expected
27	#1842 - Download stops after exception
28	#1859 - Upload hangs if menu contains a separator

29	#1521 - Abort button not working when pressed while Dialog loading
30	#1868 - StartGetParameters returns AXIS elements that fail in call of StartSetParameters
31	#1831 - Commit result should contain more Information about the error cause.
32	#1810 - No UID items for WRITE_AS_ONE in EditDisplay
33	#1809 - HART host test CMB60000 failed due to two wrong bytes in returned more data info array
34	#1794 - 512_Offline OUD10000 - Reconciling variables not saved to device
35	#1839 - "?" icon always appears for LOCAL Variables those are in unit relation with device variable
EDD Engine	
36	Support for GetHealthStatus.
37	Improved error reporting.
38	Several bug fixes.
HCF Tokenizer	
39	#1821 – Command selection in case of dynamic, device managed “Device Variables” does not work. This issue is already fixed in HART Tokenizer v10.14 according to FDI Bugzilla.
PB/PN Tokenizer	
40	Improved verification
41	METHOD.TYPE char and METHOD parameter type char repaired METHOD.DEFINITION continue statement repaired
FF Tokenizer	
42	#1899 - Correct encoding conditions for “PATH” attribute for IMAGE items.
43	#1855 - Correct encoding “characteristics” record for block correctly.
44	#1857 – Datatype Bitstring handled correct when using templates
45	#1832 - FF Tokenizer gives syntax error for DD_ITEM variable.
FDI Package Conformance Test Tool	

46	Update AboutBox and Logos
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A.3 Revision 1.1.4

Major release of the FDI Package IDE r1.1

Changes to previous version

ID	Description
1	Offline root menu, Transfer Parameters from Device, Transfer Parameters to Device functionality is implemented.
2	PROFINET support
3	FDI Package Conformance Test Tool
4	Save/Restore of offline instance data and FILE constructs
5	EDD FILE constructs as one instance
6	EDD LIST constructs (FF, HART, PROFIBUS/PROFINET)
7	Binary format FF (ff5) support implemented
8	Dominant / Dependent handling implemented
9	EDD VARIABLE of type LOCAL committed to root cache without selecting apply button
10	Fix issues regarding memory management, release required memory.
11	Several bug fixes

A.4 Revision 1.0

Initial revision released to coincide with initial release of the FDI Package IDE r1.0