



## *FGPS Limited*

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### **Px11Utils Release Notes**

Date: 26/04/2024

Version: 2.01

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	General	All modules can now read and process Px11 files in version 2.0 of the format specifications.
2	Format Check	Improved user defined source handling.
3	Inspect	Popup menu now has "Go to Previous Shot" and "Go to Shot" options.
4	Inspect	Popup menu now has full set of shortcut keys.
5	Inspect	Can now display files in UKOOA P/190 format.

Date: 29/11/2023

Version: 2.00

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	Converters	All P1/11 and P6/11 output now contains EPSG version and date if applicable.
2	Converters	All Px/11 file headers now have geodetic records in the recommended order.



Date: 04/09/2023

Version: 1.99

No.	Module	Description
1	Inspect	Added popup menu option to go to next shot.

Date: 10/08/2023

Version: 1.98

No.	Module	Description
1	Application	The application can now be given the name of a file as a parameter; this file will then immediately be opened in the file inspector. This allows the application to be started via Windows file associations.
2	P190 to P111 Converter	Improved handling of project dates.
3	P190 to P111 Converter	Improved warning messages.



Date: 18/07/2023

Version: 1.97

No.	Module	Description
1	Inspect	Filtering on compound CRS now shows all component records.
2	File Converters	Added option to open output folder after conversion.
3	Ukooa Converters	P1/11 to SPS converter: Corrected seconds output in S records.
4	Ukooa Converters	P1/11 to SPS converter: Added option to output point depth.

Date: 07/07/2023

Version: 1.96

No.	Module	Description
1	Ukooa Converters	P1/11 to SPS converter can now output hires timestamp in supplemental C records.

Date: 06/07/2023

Version: 1.95

No.	Module	Description
1	Ukooa Converters	Added option to convert P1/11 to SPS files.



Date: 29/11/2022

Version: 1.94

No.	Module	Description
1	Format check	Added checks for transformations between 3D WGS 84 and 2D WGS 84 CRS.

Date: 28/11/2022

Version: 1.93

No.	Module	Description
1	Format check	Improved checking with WGS 84 CRS with dynamic datum, e.g. 7663: "WGS 84 (G1674)".



Date: 21/11/2022

Version: 1.92

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	Format check	Improved checking of datum with regard to changes between EPSG DB versions.
2	Format check	Added checks for version, date and source of EPSG-compliant database.
3	Options form	Improved handling of databases path.



Date: 27/08/2021

Version: 1.91

No.	Module	Description
1	Geodetic	Various updates to supported projection and coordinate transformation methods.
2	Format check	Some header records no longer regarded as always mandatory (e.g. HC,1,5,0).
3	Format check	Added handling of geocentric CRS when checking example point conversions.
4	Format check	Corrected handling of swapped coordinate order in example point conversions.
5	Format check	Corrected handling of non-degree units in example point conversions.
6	Inspect	Added popup menu option to go to end of header.
7	Inspect	Added CRS type to CRS filter list.
8	Inspect	Files now opened read only by default, use new Edit/Save/Undo buttons to edit the file.
9	Inspect	When in edit mode, the file can now be updated by editing the values in the record details grid.
10	P1 to P6 Converter	Now warns if CRS code not given.
11	Report	Network plot now shows first and last rx for each streamer for P1/11 files.



Date: 02/06/2021

Version: 1.90

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	P190 to P611 converter	NEW: Converts P190 bin node file to P611.



Date: 27/05/2021

Version: 1.89

No.	Module	Description
1	Application	Now creates backup of exe file for each different version.
2	Application	The size and position of some windows is now saved.
3	Application	Recent files lists can now be tidied from the Tools menu.
4	Format check	Precision can now be specified up to a value of 10.0.
5	Format check	Now checks for H6,0,0,0, H6,0,1,0 and H6,3,0,0 in P6/11.
6	Format check	Don't escape datum date in error messages.
7	Format check	Now optionally checks for existence of WGS 84 and associated transformation.
8	Format check	Improved handling of differences between EPSG versions.
9	Inspect	Now reports number of edits after search and replace.
10	Converters	Added GUI options for data not found in source files to allow format compliance.
11	P6 converter	Now uses new coordinate system 1051 for the bin grid CRS. and creates appropriate H6,3,0,0 records.
12	P6 converter	Now always output at least 5 example point conversions.





Date: 05/05/2021

Version: 1.88

No.	Module	Description
1	Format Check	Improved handling of records with invalid date fields.

Date: 24/04/2021

Version: 1.87

No.	Module	Description
1	P1/11 to P1/90 converter	Bugfix: Corrected streamer char in rx records.

Date: 23/03/2021

Version: 1.86

No.	Module	Description
1	Format Check	Improved record set check for geocentric CRS.
2	Format Check	Improved EPSG version output in report.
3	Format Check	EPSG version differences now include all versions from 8.0 up to 10.015.



Date: 19/02/2021

Version: 1.85

No.	Module	Description
1	IMPORTANT UPDATE	EPSG processing has been updated to handle the data model changes in version 10 and later. It is recommended that you download and install the latest EPSG database from the FGPS website.
2	Format Check	Improved handling of records that were changed between version 1.0 and 1.1.
3	Format Check	Improved handling of M6 records.
4	Format Check	Added option to check example points for bin grid CRS.
5	P2 Converter	Can now handle more than 1000 USBL obs.

Date: 05/01/2021

Version: 1.84

No.	Module	Description
1	Format Check	Improved handling of B6 records.
2	Format Check	Lite version now limits to 200 data records for P611.



Date: 16/09/2020

Version: 1.83

No.	Module	Description
1	GUI	Improvements for High DPI monitors.

Date: 15/09/2020

Version: 1.82

No.	Module	Description
1	Format Check	Improved handling when mandatory EPSG codes missing in geodetic records.

Date: 20/08/2020

Version: 1.81

No.	Module	Description
1	Format Check	In HC,2,3,0 records, offsets must be blank if there are multiple "towed-by" objects.
2	Format Check	Improved error message when EPSG code missing from geodetic record.



Date: 08/07/2020

Version: 1.80

No.	Module	Description
1	Format Check	Bugfix: Reinstated click on error list to open record details.

Date: 19/05/2020

Version: 1.79

No.	Module	Description
1	Format Check	Single file window now allows drag drop of file from Windows Explorer.
2	Inspect	Now allows drag drop of file from Windows Explorer.

Date: 11/03/2020

Version: 1.78

No.	Module	Description
1	Format Check UKOOA	P294 database folder now deleted after format check.



Date: 02/03/2020

Version: 1.77

No.	Module	Description
1	Format Check	Now accepts a file dragged and dropped from Windows Explorer.
2	Format Check	Now indicates if a coordinate is given that is not available in the referenced CRS, e.g. if coordinate 3 is given for a 2D CRS.

Date: 25/02/2020

Version: 1.76

No.	Module	Description
1	Application	"DPI awareness" enabled (correction). This ensures a cleaner GUI on displays with very high resolutions, or where the Windows display scale factor is set to greater than 100%.

Date: 25/02/2020

Version: 1.75

No.	Module	Description
1	Application	"DPI awareness" enabled. This ensures a cleaner GUI on displays with very high resolutions, or where the Windows display scale factor is set to greater than 100%.



Date: 18/02/2020

Version: 1.74

No.	Module	Description
1	P111 converter	ORCA object type 37 "Air Gun Array" now identified as source node.

Date: 10/02/2020

Version: 1.73

No.	Module	Description
1	Format Check	Bugfix: Corrected handling when path to EPSG databases was incorrect.

Date: 20/12/2019

Version: 1.72

No.	Module	Description
1	Format Check	Improved handling of PPTYPEATTREF.
2	Inspect	Corrected hyperlink handling when more than ten in integer list.
3	P2 Converter	Bugfix: Was leaving log file open, causing problems when processing more than 45 files.



Date: 07/12/2019

Version: 1.71

No.	Module	Description
1	P2 Converter	Improved handling of unknown obs types.
2	Inspect	Corrected hyperlinks where there are multiple definitions in a single record.
3	Inspect	Hyperlink on OBJREF now jumps to HC,2,3,0 if there is one, rather than e.g. H2,5,3,0.

Date: 02/12/2019

Version: 1.70

No.	Module	Description
1	P2 Converter	Improved handling of USBL alignments.
2	Smart edit	Added ability to replace specific fields in any record with custom editing.



Date: 25/11/2019

Version: 1.69

No.	Module	Description
1	Format Check	Improved some error messages.
2	P2 Converter	Now handles P2/94 files without E1000 records.

Date: 13/11/2019

Version: 1.68

No.	Module	Description
1	Format Check	Improved handling of badly formatted header records.





Date: 09/10/2019

Version: 1.67

No.	Module	Description
1	Application	Now allows automatic upgrades. The frequency of update checks can be set in the Tools / Options menu.
2	Format Check	Improved performance when finding many errors.
3	Format Check	Improved checking of time formats.
4	Format Check	"invalid data" errors now bundled together.
5	Inspect	Added "Go to Line" option in popup menu.
6	Inspect	Added links to tables mentioned in comments.
7	Report	Improved network diagram.
8	Report	Now includes actual survey area.



Date: 18/07/2019

Version: 1.66

No.	Module	Description
1	Format Check	Bugfix: List of errors sometimes did not show full error text after rerunning check.
2	Format Check	Some fields no longer regarded as mandatory.
3	P1/P2 Converters	Px11 output now only includes units of measure that are actually used.

Date: 04/06/2019

Version: 1.65

No.	Module	Description
1	Format Check	Added checks that official EPSG codes exist in the reference EPSG database.
2	Format Check	Improved some error messages.
3	Inspect	Minor GUI improvements.
4	P1 Converter	Bugfix: In some cases firing source id was out of sync with the source file.



Date: 04/02/2019

Version: 1.64

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	Format Check	Improved handling of source objects and source fired events.
2	Format Check	Improved layout of options window.