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ISP-PRO Version 4 – Release Notes

Version: 4.0 build 3981

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Abstract:

This document contains the Release Notes for the specified version of the ISP-PRO Version 4 – Programmer Control / Networking Utility.

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Contents

1.0 Overview of this release.....	3
1.1 Introduction	3
1.2 Software versions in this release.....	3
1.3 Supported Windows operating systems	3
1.4 Programmers supported.....	4
1.5 ISP-PRO Version 4 Overview	4
1.6 Important licensing information for ISP-PRO Version 4	4
1.7 Installation instructions	5
2.0 New functionality in ISP-PRO build 3981	5
2.1 Enhanced Z-Wave "S2 Security" protocol support (build 3974)	5
2.2 New Z-Wave "SmartStart" labelling support (build 3981).....	5
2.3 New Interface Database version 28 with new fields to support Z-Wave "SmartStart" label printing (build 3981)	6
3.0 New functionality in ISP-PRO build 3936.....	6
3.1 Support for new Z-Wave "S2 Security" protocol (build 3936).....	6
3.2 New Interface Database with new fields to support Z-Wave "S2 Security" protocol (build 3936)	6
3.3 New "S2 Security" cryptographic dll now installed (build 3936)	6
3.4 Support for remote control of Sigma Z-Wave programming scripts (build 3910)	7
3.5 New 'Programmer overview' tab (build 3910)	7
3.6 New 'WaitForScript' handling for remote control (build 3910)	7
3.7 Enhanced console application handling (build 3910).....	7
3.8 Zebra barcode label printer support (build 3910)	7

1.0 Overview of this release

1.1 Introduction

The document describes the new functionality, features and device support in this version of the ISP-PRO Version 4 software application.

1.2 Software versions in this release

This release of ISP-PRO contains the following software utility versions:

Software application name	Software version	Description
ISP-PRO	Version 4 Build 3981	Main EQTools application
Upload Wizard	Version 4 Build 3915	Utility used to upload ' Standalone Programming Projects ' to a programmer.
ADOExplorer	Build 3176	Utility used to monitor / control the Interface Database.
ac_isppro Interface Database	Version 28 *** New version ***	This is the Interface Database which is shared between EQTools and ISP-PRO. The database has been upgraded to version 28.
Z-Wave S2 Security Crypto dll	Version 2.0 (Build 1.13302)	This is a special dll required for use with Z-Wave "S2 Security" key generation.

1.3 Supported Windows operating systems

This release of ISP-PRO has been developed under Windows Vista and should be compatible with the following versions of Windows:

- Windows 98
- Windows 2000
- Windows NT4
- Windows XP (need to install Service Pack 2)
- Windows Vista
- Windows 7 (32-bit version)
- Windows 7 (64-bit version)
- Windows 8
- Windows 10

Please note:

We have tested this release on Windows XP, Windows 7 and Windows 10. It has been installed but not fully tested on Windows 7 (64-bit version). If you have any problems with either the installation or operation of ISP-PRO on this version of Windows, please contact Equinox Technical Support and we will be more than happy to help debug the problem for you.

1.4 Programmers supported

This version of the ISP-PRO application supports the following Equinox programmers:

Programmer	Description	Production status
PPM3-MK2	Production ISP Programming Module – expandable up to 16 programming channels.	In production – will be replaced by PPM4-MK1
PPM4-MK1	Production ISP Programming Module – expandable up to 32 programming channels.	In production
ISPnano Series 1	Production ISP Programming Module – expandable up to 32 programming channels.	Discontinued – replaced by Series 3
ISPnano Series 2	Production ISP Programming Module – expandable up to 32 programming channels.	Discontinued – replaced by Series 3
ISPnano Series 3	Production ISP Programming Module – expandable up to 32 programming channels.	In production
ISPnano Series 3 ATE	Production ISP Programming Module – expandable up to 32 programming channels.	In production
ISPnano-MUX	MUX2 / MUX4 / MUX8 – Sequential ISP programming systems	In production
ISPnano Series 4 ATE	Production ISP Programming Module – expandable up to 32 programming channels.	In production

Please note:

The Equinox EPSILON5, FS2003 and FS2009 programmes are no longer supported by ISP-PRO.

1.5 ISP-PRO Version 4 Overview

'ISP-PRO Version 4' is a completely new version of ISP-PRO which replaces the existing **'ISP-PRO Version 3'** software. This version has been completely rewritten and offers much faster programming due to enhanced communications drivers and optimised multi-programmer scanning algorithms. This version also introduces support for the new range of Equinox multiplexer ISP programmers – the ISPnano-MUX2, ISPnano-MUX4 and ISPnano-MUX8.

1.6 Important licensing information for ISP-PRO Version 4

'ISP-PRO Version 4' is a completely new version of ISP-PRO which replaces the existing **'ISP-PRO Version 3'**. If you already have **'Version 3'** running on a PC and you wish to upgrade to 'Version 4', please contact Equinox to purchase the relevant upgrade license.

Important note:

'ISP-PRO Version 4' requires a **'License upgrade'** to be purchased from Equinox and then installed on all programmers which are to run this new version.

1.7 Installation instructions

Please download the '**ISP-PRO User Manual**' for full step-by-step installation instructions for the ISP-PRO application.

Instructions to install the new version of ISP-PRO.....

- If you already have an earlier version of ISP-PRO installed, uninstall this older version by selecting Program Files → Equinox → Uninstall **ISP-PRO-V3**
- Launch the install for the new **ISP-PRO Version 4**
- The new version of ISP-PRO will be installed into a new folder **/equinox/ISPPROV4..**

To run the new version of ISP-PRO....

- Double-click the ISP-PRO icon or select Start → Programs → Equinox → **ISP-PRO V4**

2.0 New functionality in ISP-PRO build 3981

2.1 Enhanced Z-Wave "S2 Security" protocol support (build 3974)

This version of ISP-PRO introduces the following enhanced functionality for the Z-Wave "S2 Security" support:

- The generated "PRIVATE KEY" is now automatically deleted from both the database report file once it has been programmed into the target Z-Wave device.
- The script now automatically checks for duplicate "PUBLIC keys" to guard against the same key being repeated continuously.
- The script now automatically checks for all 0x00 or all 0cFF in the generated "PUBLIC / PRIVATE keys" to guard against the keys being "stuck" at a certain value.

2.2 New Z-Wave "SmartStart" labelling support (build 3981)

This version of ISP-PRO introduces support for the new "**SmartStart**" method of labelling Z-Wave products. Each customer job now requires a "Production Control File" to be defined which instructs ISP-PRO how to generate a "SmartStart compliant" printed label.

- A new "**Production Control File**" (*.csv) is used to control the SmartStart compliant "QR label" which is then printed.
- A "QR code" label is generated which includes all the relevant Z-Wave manufacturer and product information plus the generated DSK code plus a UUID value (if applicable).
- Enhanced label printing functionality now supports printing of any database field including the DSK, ID fields etc.

2.3 New Interface Database version 28 with new fields to support Z-Wave "SmartStart" label printing (build 3981)

A new version (version 28) of the ISP-PRO interface database has been introduced in this version. This new database has new fields to support...

- i. New "Printing" table to store Production Control File, initial / final QR code string etc.
- ii. Label text field - which logs the actual textual output sent to the printer to print each label.
- iii. Z-Wave setup information from the "Production Control File".

3.0 New functionality in ISP-PRO build 3936

3.1 Support for new Z-Wave "S2 Security" protocol (build 3936)

This version of ISP-PRO introduces new functionality and a new database version which allows the new Z-Wave "S2 Security" protocol to be supported.

Here is an overview of the new "S2 Security" functionality which has been implemented in this version...

- Generation of S2 Private key, Public key, DSK (for QR label)
- Merging of S2 Private key, Public key into the NVR Area
- Logging of S2 Private key, Public key, DSK to ISP-PRO database fields
- Automatic setting of NVR "VER" field to 0x02
- Printing support for DSK value onto a "QR label" via a Zebra compatible printer (must support Zebra ZPL language)
- Zebra printer - global enable - allowing printing to be enabled or disabled globally

3.2 New Interface Database with new fields to support Z-Wave "S2 Security" protocol (build 3936)

A new version (version 25) of the ISP-PRO interface database has been introduced in this version. This new database has new fields to support storage and logging of the Z-Wave S2 Private key, Public key, DSK

3.3 New "S2 Security" cryptographic dll now installed (build 3936)

A new dll is now installed with ISP-PRO which handles the generation of the Z-Wave "S2 Security" parameters.

3.4 Support for remote control of Sigma Z-Wave programming scripts (build 3910)

This version of ISP-PRO introduces new functionality and a new database version which allows the

This version of ISP-PRO introduces new functionality and a new database version which allows the Sigma Z-Wave programming scripts to be fully controlled from a customer's remote application. It is now possible to pass the Script name, project name(s), NVR file name etc via dedicated fields in the database allowing the remote application to select all the relevant parameters required for programming.

3.5 New 'Programmer overview' tab (build 3910)

It is now possible to view the list of programmers in a tabulated view which makes it easier to see what is happening with multiple programmers.

3.6 New 'WaitForScript' handling for remote control (build 3910)

A new method for controlling "inserted scripts" has been introduced. This allows better handling of inserted scripts plus full report diagnostics.

3.7 Enhanced console application handling (build 3910)

When running a "console app" from ISP-PRO, it is now possible to output the entire "console window" textual output to a database field. This makes it possible to check exactly what the console app is actually returning.

3.8 Zebra barcode label printer support (build 3910)

A set of sample barcode label templates is now installed in the \scripts folder. These test labels can be used with a suitable Zebra printer.