



EDISecure® **XID Printer Driver and Advanced CEF**

EXTENSIVE EFFORTS IN DRIVER DEVELOPMENT FOR INNOVATIVE PRINTING AND ENCODING SOLUTIONS

- In-house developed, state-of-the art printer driver
- Intuitive, user-friendly graphical interface
- Straightforward set up and control of printer functions
- Flexible chip card personalization
- Powerful and easy to administer chip encoding framework
- Open programming interface within the *EDISecure*® Advanced Chip Encoding Framework for utmost flexibility
- Ideal for fluid workflow and embedded chip encoding applications
- Advanced Intelligent Printer Management allows high-capacity card production of up to 840 cards/h

Our high-performance driver for the *EDISecure*® XID5xxie Retransfer Printers has an intuitive and user-friendly graphical interface that allows the operator to easily set and control all printer functions including smart chip and magnetic stripe encoding. For consumables monitoring, material type and status are displayed. For color correction, special look-up tables can be uploaded to the printer. Within the Administration Center, all printer settings, such as print speed and lamination temperature, can be set and monitored.

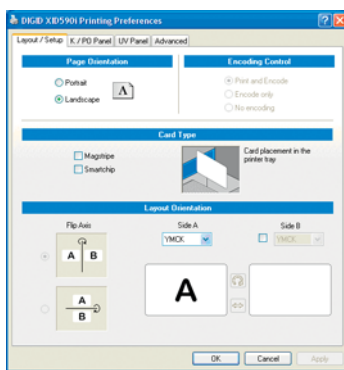
For utmost flexibility when personalizing cards K-Panel and Peel-off areas can be defined easily in order to specify which data should be printed with carbon black or to prevent from printing on signature fields. For high-security applications sophisticated special features are supported, such as UV ink printing and password protection.

With the use of the latest printer driver of the *EDISecure*® XID5xxie Series chip encoding is now as easy as magnetic stripe encoding. The *EDISecure*® Advanced Chip Encoding Framework (CEF) is a powerful *EDISecure*® XID5xxie Series based toolkit for ID application independent inline encoding of various chip technologies. The Advanced CEF provides the integration of several encoding technologies into the *EDISecure*® XID5xxie Series printer environment by an easy to use Plug-in technology. -

POWERFUL DRIVER FUNCTIONS

PRINTER DRIVER OVERVIEW AND PRINTING PREFERENCES

All our *EDIsecure*® XID5xxie Printers are equipped with an advanced, state-of-the-art, in-house developed printer driver. It has an intuitive user interface and allows the complete control of printer features by the operator. With our printer driver any combination of page and layout orientation can be easily selected using icons and visual user guidance. The printer driver also supports optimized color ribbon usage for cost efficient personalization of cards in full color on front and black on backside using only one YMCK-Panel. Additional applications, such as Dispatcher and Administration Center, provide for printer and supplies control as well as device administration.



Printing Preferences

For utmost flexibility on card personalization our printer driver provides for easy definition of printing either all text, black text only, black & white images or defined areas using carbon black (K-Plane). Supporting special Peel-Off Ribbons for the *EDIsecure*® XID5xxie Series, dedicated areas can be defined in order to prevent the printing on signature fields or magnetic stripes. Please note: The use of Peel-Off Ribbons is subject to prior approval by Digital Identification Solutions.

HIGH SECURITY PRINTING WITH UV INK

The new generation of *EDIsecure*® XID 580ie and XID 590ie Retransfer Printers possesses a revolutionary dye-sublimation based UV ink ribbon, utilizing “on demand pictorial printing” of invisible photographs, logos, emblems, symbols, coats of arms and even variable text when issuing the card. This revolutionary UV printing technology allows finest tone scale reproduction for the personalization of invisible photographs of highest quality, which is unparalleled in the industry. The printed UV information is not visible to the naked eye, but can be inspected easily by using a UV light source. It is therefore a fantastic and attractive security feature for corporate and government clients. Furthermore, thanks to a unique “machine-tracking-code”, fake ID cards can be traced back to the originating printer.

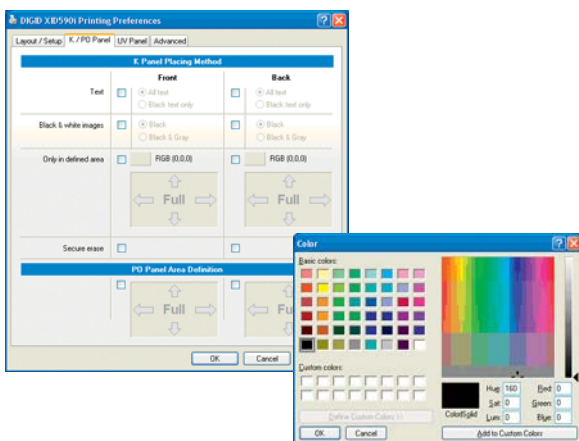
ADVANCED INTELLIGENT PRINTER MANAGEMENT (IPM)

Advanced IPM allows the connection of up to seven units of our premier *EDIsecure*® XID590ie Retransfer Printer to one print server for high-capacity card production (up to 840 cards per hour). Due to the parallel workflow, an unrivalled level of system availability is achieved. Different kinds of print-jobs are monitored and managed at a glance. Batch printing in combination with chip encoding can also be performed. Advanced IPM automatically shifts the workload to the next available print unit in a group. Print jobs and the accompanying encoding data are routed securely to the correct printer, even in a distributed network environment. Printer groups can be defined and assigned to specific card layouts. This offers extreme flexibility on fluid workloads.

PRINTER DRIVER INSTALLATION AND UPGRADES

- The printer driver comes with its own set-up
- The printer driver upgrade is free of charge

An automatic check for existing versions runs during the installation of the printer driver. If a previous printer driver version is found, the settings will be adopted. Then the current version of the printer driver gets installed.



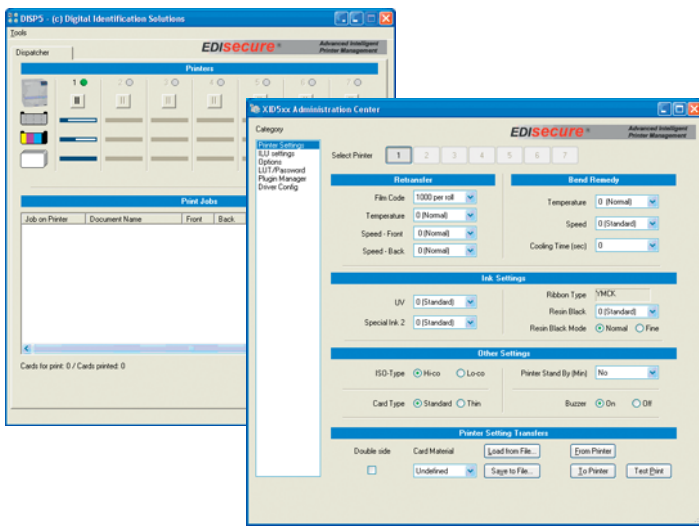
K-Panel/Peel-Off



DISPATCHER

The Dispatcher is part of the printer driver and performs the real time display of print job status, Pause/Resume control, display of supplies and material status (retransfer film, color ink, cards) for each printer. The printer status can be queried at any time from customer's application.

The Advanced IPM was developed with a focus on giving the most power and flexibility to the user. All necessary controls and settings are stored centrally in the Dispatcher application. The user has direct access to all setting parameters he needs.



ADMINISTRATION CENTER

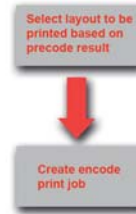
The Administration Center is the central point for administrative management of hardware related settings, printer driver and LUT (Lookup Table)/password control. Based on the innovative Plug-in architecture, this application allows the implementation of additional administrative functions.

The Printer Settings category enables the user to control, set, and store all printing parameters, such as retransfer and ink settings, in a comfortable manner via PC separately for every connected printer. For the various available card materials, such as PVC, Composite PVC, ABS, PET and Polycarbonate, parameter settings can be stored in dedicated card profiles and selected when changing the card material during the work process.

Lookup Table Configuration provides for using individual LUTs, which contains color control values for customized color corrections. The print density for every color can be defined separately. Another important option in the Administration Center is a password option which is designed for the use in high security environments. The user can set a password for the printer to make sure only certified operators are able to use the printer within secured environments.

The Plug-in Manager category provides for setting up all parameters that are needed for the EDIsecure® Advanced Chip Encoding Framework.

Application



Driver



Plug-In



ADVANCED CHIP ENCODING FRAMEWORK

Chip encoding is now as easy as magnetic stripe encoding with our EDIsecure® Advanced Chip Encoding Framework, a powerful EDIsecure® XID5xxie printer toolkit that encodes independent of your ID application. It provides the integration of multiple encoding technologies through an easy-to-use Plug-in Tool. It is now possible to encode smart chips from nearly any software application that allows variable field data in a layout.

Due to the open architecture the Advanced CEF can support almost every possible chip type. Only the appropriate Plug-in needs to be adapted to the chosen chip technology, utilizing the contact and contactless chip controller hardware in the compliant EDIsecure® XID5xxie Series Printer.

Our Advanced CEF Plug-ins provide for:

- Configurable data structures in XML-format
- Secure key definition (Encrypted keys)
- Supports all standard data formats incl. binary format
- Supports multiple data structures per chip type

Combining the Advanced CEF with the Advanced IPM gives unrivalled personalization power and utmost flexibility for smart card mass production.

We offer our own Plug-ins which come with a convenient setup that will install the purchased Plug-in automatically on your computer. The configuration of the Plug-in is done with the Plug-in Manager in the Administration Center. The most important benefits of our Plug-ins are that no additional encoding software is required and no programming knowledge is requested. This allows a convenient setup and introduction to the work process. The base license and at least one Plug-in allow the operation of one or more printers connected to a single PC. The advantage is that only one license per PC is needed instead of one per printer.

THERE IS ONE FOR EVERYBODY

EDISECURE® PRINTER DRIVER QUICK REFERENCE

	 XID 560ie	 XID 570ie	 XID 580ie	 XID 590ie
Printer Password	-	-	-	•
Printer Settings via Admin Center	-	•	•	•
EIP Enhanced Image Processing	-	-	•	•
Printer Look-Up Tables	-	-	•	•
Advanced CEF (Chip Encoding Framework)	•	•	•	•
Advanced IPM (Intelligent Printer Management)	-	-	-	•

• = available - = not available

EDISECURE® ADVANCED CHIP ENCODING FRAMEWORK QUICK REFERENCE

INSTALLATION	Advanced CEF is part of the <i>EDiSecure</i> ® XID5xxie Series Printer Driver
CONFIGURATION	Application software independent
	Encoding for local printing
	Encoding for network printing
	Supports text, images and binary data
	Supports reading of pre-encoded chip data
	USB / Ethernet / Serial Ports
DISPATCHER	Full error recovery with encoding
	Unlimited number of encoding definitions per layout
	Advanced Intelligent Printer Management supports up to seven printers simultaneously*
ADMINISTRATION CENTER	Overlapped printing and encoding
	Unlimited number of format templates per Plug-in
	Configuration of Plug-ins
EDiSecure® PLUG-INS	Unlimited number of Plug-ins
	Management of Plug-ins
	Assignment of printer ID and encoder port
	Protected memory chip (Infineon SLE4442 and compatibles)
	ISO 7816 Processor chips (ISO 7816/4 compliant)
	Mifare standard (1 KByte S50 / 4 KByte S70)
	DESFire standard (4KByte and 8 KByte chips)
HID iCLASS standard (2 KBit and 32 KBit)	
Configurable data structure in XML format	
Secure key definition (encrypted keys)	

* only available with XID 590ie

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