

Card Format Manual



This manual is proprietary information of Open Options, LLC. Unauthorized reproduction or distribution of this manual is strictly forbidden without the written consent of Open Options, LLC. The information contained in this manual is for informational purposes only and is subject to change at any time without notice. Open Options, LLC assumes no responsibility for incorrect or outdated information that may be contained in this publication.

DNA Fusion[™] and SSP[™] are trademarks of Open Options, LLC.

The DNA Fusion[™] Access Control Software and SSP[™] Security System Processor use equipment that generates, uses, and radiates radio frequency energy. If not installed and deployed in accordance with the guidelines of this installation manual, they may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to correct the interference at their own expense.

The DNA Fusion[™] Access Control Software and SSP[™] Security System Processor shall be installed in accordance with this installation manual and in accordance with the National Electric Code (N.E.C), ANSI and NFPA 70 Regulations and recommendations.

Publish Date: May 3, 2021 Manual Number: CFM-2.0

© Copyright 2002-2021 Open Options, LLC. All rights reserved.

Warranty

All Open Options products are warranted against defect in materials and workmanship for one year from the date of shipment. Open Options will repair or replace products that prove defective and are returned to Open Options within the warranty period with shipping prepaid. The warranty of Open Options products shall not apply to defects resulting from misuse, accident, alteration, neglect, improper installation, unauthorized repair, or acts of God. Open Options shall have the right of final determination as to the existence and cause of the defect. No other warranty, written or oral is expressed or implied.



16650 Westgrove Dr | Suite 150 Addison, TX 75001 Phone: (972) 818-7001 Fax (972) 818-7003 www.ooaccess.com

Open Options Software License Agreement

THE ENCLOSED SOFTWARE PACKAGE IS LICENSED BY OPEN OPTIONS, LLC. TO CUSTOMERS FOR THEIR NON-EXCLUSIVE USE ON A COMPUTER SYSTEM PER THE TERMS SET FORTH BELOW.

DEFINITIONS: Open Options shall mean Open Options, LLC, which has the legal right to license the computer application known as DNA Fusion herein known as the Software. Documentation shall mean all printed material included with the Software. Licensee shall mean the end user of this Open Options Software. This Software Package consists of copyrighted computer software and copyrighted user reference manual(s).

LICENSE: Open Options, LLC, grants the licensee a limited, non-exclusive license (i) to load a copy of the Software into the memory of a single (one) computer as necessary to use the Program, and (ii) to make one (1) backup or archival copy of the Software for use with the same computer. The archival copy and original copy of the Software are subject to the restrictions in this Agreement and both must be destroyed or returned to Open Options if your continued possession or use of the original copy ceases or this Agreement is terminated.

RESTRICTIONS: Licensee may not sub license, rent, lease, sell, pledge or otherwise transfer or distribute the original copy or archival copy of the Software or the Documentation. Licensee agrees not to translate, modify, disassemble, decompile, reverse engineer, or create derivative works based on the Software or any portion thereof. Licensee also may not copy the Documentation. The license automatically terminates without notice if Licensee breaches any provision of this Agreement.

TRANSFER RIGHTS: Reseller agrees to provide this license and warranty agreement to the end user customer. By installation of the software, the end user customer and reseller agree to be bound by the license agreement and warranty.

LIMITED WARRANTY: Open Options warrants that it has the sole right to license the Software to Licensee. Upon registration by the Licensee, Open Options further warrants that the media on which the Software is furnished will be free from defects in materials and workmanship under normal use for a period of twelve (12) months following the delivery of the Software to the Licensee. Open Options' entire liability and your exclusive remedy shall be the replacement of the Software if the media on which the Software is furnished proves to be defective. EXCEPT AS PROVIDED IN THIS SECTION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. IN PARTICULAR, EXCEPT AS PROVIDED IN THIS SECTION, WITH RESPECT TO ANY PARTICULAR APPLICATION, USE OR PURPOSE, LICENSOR DOES NOT WARRANT THAT THE PRODUCTS WILL MEET THE LICENSEE'S REQUIREMENTS, THAT THE PRODUCTS WILL OPERATE IN THE COMBINATIONS OF 3RD PARTY SOFTWARE WHICH THE LICENSEE MAY SELECT TO USE, OR THAT THE OPERATION OF THE PRODUCTS WILL BE UNITERRUPTED OR ERROR FREE. NEITHER OPEN OPTIONS, NOR ITS VENDORS SHALL BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS, NOR FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND WHETHER UNDER THIS AGREEMENT OR OTHERWISE. IN NO CASE SHALL OPEN OPTIONS' LIABILITY EXCEED THE PURCHASE PRICE OF THE SOFTWARE.

The disclaimers and limitations set forth above will apply regardless of whether you accept the Software.

TERMINATION: Open Options may terminate this license at any time if licensee is in breach of any of its terms or conditions. Upon termination, licensee will immediately destroy the Software or return all copies of the Software to Open Options, along with any copies licensee has made.

APPLICABLE LAWS: This Agreement is governed by the laws of the State of Texas, including patent and copyright laws. This Agreement will govern any upgrades, if any, to the program that the licensee receives and contains the entire understanding between the parties and supersedes any proposal or prior agreement regarding the subject matter hereof.

Table of Contents

Section 1: Introduction

This Manual Contains	1-	1

Section 2: Card Format Types

Card F	Formats	2-1
٧	Wiegand Card Format	2-1
٨	Magnetic Stripe (MAG)	2-2

Section 3: Configuring Card Formats

Card Formats Dialog	3-1
Locating the Card Formats Dialog	3-1
Preset Card Formats	3-2
Creating a New Card Format	3-2
Copying a Card Format	3-4
Editing a Card Format	3-5
Removing a Card Format	3-5
Gathering Card Format Information	3-7
Event Data	3-7
Card Bit and Facility Code Information	3-9
Assigning a Card Format to the SSP	3-11

Section 4: Card Format Catalog

Card Format Catalog	4-1
Wiegand Type Card Formats	4-1
HID 26 Bit with FC	4-1
HID 26 Bit with Multiple FC	
32 Bit Format Without FC	
Motorola 32 Bit Format with FC	
HID 35 Bit Format with FC	4-3
HID 36 Bit Format with FC	
HID 37 Bit (H10302) without FC (1)	
HID 37 Bit (H10302) without FC (2)	
HID 37 Bit (H10304) with FC (1)	4-4
HID 37 Bit (H10304) with FC (2)	
Motorola 37 Bit Format with FC (Indala)	4-5

HID 48 Bit Corporate 1000	
OO Card Format	4-5
Vanderbilt 26 Bit Format	4-6
Vanderbilt 32 Bit Format	4-6
Vanderbilt 37 Bit Format	4-6
HID 34 Bit (N1002) Format	4-7
HID 37 Bit (\$10401) Format	4-7
ACT ID Card Format	4-7
PopID Card Format	4-8
ASSA MiFare 56 Bit Format	
Magnetic Stripe Card Format Type	
Magstripe with FC	
Magstripe No FC with 0-40	
Magstripe No FC with 7-20	
Insertion: Wiegand Format	
Magstripe: 4 Digit FC with 11-20	
pivCLASS Card (Non-Compliant)	4-11

Section 5: Additional Formatting

Additional Card Formatting	5-1
Corporate Mode Card Format	5-1
Multiple Facility Code Card Formats	5-2
Using FIPS/pivCLASS card (Non-compliant)	5-3
FIPS/pivCLASS Compliance	5-3

Introduction



In This Section:

Manual Overview

This Manual Contains...

The Card Format Manual contains information explaining the differences between card formats supported by DNA Fusion along with format examples. This manual shows the appropriate steps required to edit or create various card formats. It also contains information on locating the Card Formats Dialog as well as creating card formats for any reader supported credential.

This manual includes a catalog of specific card formats with their appropriate bit structures and additional information about card formatting modes such as Corporate Mode or Multiple Facility Code in DNA Fusion.

How This Manual is Organized

Section 1, "Introduction," gives an overview of the Card Format Manual.

Section 2, "Card Formats Types," provides information about wiegand/proximity and magnetic stripe card formats.

Section 3, "Configuring Card Formats," explains where to locate the Card Formats Dialog along with information on how to create, edit, or copy a card format.

Section 4, "Card Format Catalog," catalogs different card format bit structures.

Section 5, "Additional Formatting," describes the steps required to configure Corporate Mode or Multiple Facility Card Format for new cards.

ICONS AND CONVENTIONS USED IN THIS MANUAL

This manual uses the following icons to help you find useful or important information easily:

Note: This box contains useful information that might be worth reading.

Caution: This box contains cautionary information that might alleviate headaches in the future.

In addition to the icons above, this guide uses several typeface conventions to improve readability:

- Special: Indicates a specific item on the hardware device or in the software application.
- **Boldface**: Identifies an instruction or user action; bold text usually appears in numbered steps.

This Page Intentionally Left Blank

Card Format Types



In This Section:

- Wiegand Formats
- Magstripe Formants

Card Formats

DNA Fusion allows the use of various pre-configured card formats. The Card Formats Dialog, shown at the bottom of this page, shows four options:

- Unknown
- Wiegand/Proximity
- MAG (Magnetic Stripe)

Users also have the option of selecting a third card format option for an Unknown format that is not listed in the Card Format drop-down menu.

Wiegand Card Format

The Wiegand format is a specific reader to card interface. A specifically developed wire within a plastic card transfers electronic signals to readers. The original wiegand format had one parity bit, 8 bits of Facility Code, 16 bits of Cardholder ID code, and a trailing parity bit for a total of 26 bits. The number of bits does not designate format except for the standard 26 bit. Within the given length (34 bit, 37 bit, etc), the size and location of each data element may change.

Card Formats Dialog								
Description:	scription: New 👻							
Format Number:		Facility Cod	e:	0				
Card ID Offset:	0	Card Forma	t:	Wieg	gand	•		
Card Flags:	0			Unknown Wiegand				
Bits Quantity:	Bits:	26		11/10				
Facility Code:	Qty:	8	Start		1			
Cardholder ID:	Qty:	16	Start	Start:				
Issue Code:	Qty:	0	Start		0			
Even Parity Bits:	Qty:	13	Start		0			
Odd Parity Bits:	Qty:	13	Start		13			
Set As Default For New Controllers								
Сору	Remo	ve		<u>C</u> an	icel			

Note: The Wiegand format is commonly used to preprogram proximity cards. OSDP (Open Supervised Device Protocol) is different from wiegand. OSDP uses AES-185 encryption to protect readers from hacking and are becoming an industry standard. DNA Fusion supports OSDP reader communication.

Magnetic Stripe (MAG)

A magnetic stripe card, sometimes referred to as a magstripe card, is capable of storing data by altering tiny, iron-based, magnetic particles on a band of magnetic material on the card. Magnetic stripe cards work by swiping the card past a magnetic card reader. The magnetic stripe is commonly used in credit cards and identification cards.

Magstripe cards are encoded with a card number as opposed to being preprogrammed such as a proximity card.

	-	3	3.375" (0.030" Thick) ——	
	0.223"	Recording Density (bits per inch)	Character Configuration (including parity bit)	Information Content (including control characters)
(0.110". TRACK 1 IATA	210 BPI	7 BITS PER CHARACTER	79 ALPHANUMERIC CHARACTERS
netic ripe	0.110" TRACK 2 ABA	75 BPI	5 BITS PER CHARACTER	40 NUMERIC CHARACTERS
	0.110" TRACK 3 THRIF	T 210 BPI	5 BITS PER CHARACTER	107 NUMERIC CHARACTERS

A magnetic stripe (MAG) card format type is displayed in digits, as opposed to bits for wiegand card format types in the Card Formats Dialog.

@ Card Formats Dialog						
Description:	New					•
Format Number:		Facility Code: 0				
Card ID Offset:	0	Card Format	MAG		-	
Card Flags:	0	Unkno Wiega			nown Jand	
Digit Quantity:	Min:	26	Max:	DATA CO	0	
Facility Code:	Qty:	8	Start	Start:		
Cardholder ID:	Qty:	16	Start	Start:		
Issue Code:	Qty:	0	Start	:	0	
Set As Default Fo	r New Control	lers				
≇ <u>E</u> dit	New Save					
Сору	Eemo	ve		<u>C</u> an	icel	

Configuring Card Formats



In This Section:

- Preset Card Formats
- How to Create, Edit, or Copy a Card Format
- Gathering Card Information
- Assigning Card Formats to the SSP

Card Formats Dialog

This section explains the process of locating the Card Formats Dialog along with how to properly use its functions to Create, Edit, Copy, or Remove card formats. In addition to using the Card Formats Dialog, this chapter also covers how to gather card information and use that information to successfully add a card format to DNA Fusion.

Locating the Card Formats Dialog

The Card Formats Dialog defines a format for the controller to take the raw data and format it into fields for access request processing. Multiple formats allow badges with different facility codes and/or data lengths to be used.

1. Right-click in the Hardware Browser or click on Hardware in the Main Menu.



2. Select Card Formats.

The Card Format Dialog opens.

© Card Formats Dialog							
Description: HID 26 BIT With FC							
Format Number:	1	Facility Code: 0					
Card ID Offset:	0	Card Format: Wiegand			gand 💌		
Card Flags: 0							
Bits Quantity:	Bits:	26					
Facility Code:	Qty:	8	Start	:	1		
Cardholder ID:	Qty:	16	Start	:	9		
Issue Code:	Qty:	0	Start	:	0		
Even Parity Bits:	Qty:	13	Start	:	0		
Odd Parity Bits:	Qty:	13	Start	:	13		
Set As Default Fo	or New Contro	llers					
😻 <u>E</u> dit	Edit New Save						
Copy D Remove							

Note: *Removing a card format will cause the loss of all card formatting information. Subsequently, anycard using the removed format will no longer function.*

The user can Edit, Copy, create (New), or Remove card formats in the Card Format Dialog.

Preset Card Formats

As of version 7.0, DNA Fusion has 9 preset card formats located in the Card Format Dialog. The following presetted card formats are listed below:

•

- HID 26 BIT Multiple FC
- HID 26 BIT with FC
- Insertion: Wiegand Format
- Magstripe: No FC with 7-20
- Magstripe: 4 Digit FC with 11-20
- The bit structures for each preset card format are shown in Card Format Catalog on page 4-1.

@ Card Formats Dialog							
Description: Format Number: Card ID Offset: Card Flags: Bits Quantity: Eacility Code:	HID 26 BIT With FC set: Insertion: Wiegand Format Magstripe No FC with 7-20 Magstripe 4 Digit FC with 11-20 OO Card Format Vanderbilt 26 bit Format Vanderbilt 32 bit Format Vanderbilt 37 bit Format Vanderbilt 37 bit Format						
Cardholder ID:	Qty: Qty:	16 0	Start: Start:	9			
Even Parity Bits: Odd Parity Bits:	Qty: 13 Start:			0			
Odd Parity Bits: Qty: 13 Start: 13 Set As Default For New Controllers Image: Copy Image: Remove Image: Save Image: Copy Image: Remove Image: Close							

Creating a New Card Format

1. From the Card Format Dialog, **select** the New button.

Gard Formats Dialog X X							
Description: HID 26 BIT With FC							
Format Number:	1	Facility Code: 0					
Card ID Offset:	0	Card Format: Wiegand			gand 💌		
Card Flags:	Card Flags: 0						
Bits Quantity:	Bits:	26					
Facility Code:	Qty:	8	Start	:	1		
Cardholder ID:	Qty:	16	Start	:	9		
Issue Code:	Qty:	0	Start	:	0		
Even Parity Bits:	Qty:	13	Start	:	0		
Odd Parity Bits:	Qty:	13	Start	:	13		
Set As Default E	or New Contro	lers					
🏼 🖉 Edit	New Save						
Copy	Q Hemove						

OO Card Format

- Vanderbilt 32 bit Format
- Vanderbilt 37 bit Format

2. Enter a Description for the new card format.

Card Formats Dialog								
Description: Format Number:	HID 37 BIT (H10304) With FC							
Card ID Offset:	0	Card Forma	t:	Wieg	gand	-		
Card Flags: 0								
Bits Quantity:	Bits:	26						
Facility Code:	Qty:	8	Start:		1			
Cardholder ID:	Qty:	16	Start:		9			
Issue Code:	Qty:	0	Start:		0			
Even Parity Bits:	Qty:	13	Start:		0			
Odd Parity Bits:	Qty:	13	Start:		13			
Set As Default F	or New Control	llers						
🖤 <u>E</u> dit	<u>N</u> ew			Save				
Сору	Emo	ive	O Cancel					

3. Enter the Facility Code.

@ Card Formats Dialog									
Description:	Description: HID 37 BIT (H10304) with FC 🔹								
Format Number:		Facility Code: 55							
Card ID Offset:	0	Card Forma	t: W	iegand 🔄					
Card Flags:	js: O								
Bits Quantity:	Bits:	26							
Facility Code:	Qty:	8	Start:	1					
Cardholder ID:	Qty:	16	Start:	9					
Issue Code:	Qty:	0	Start:	0					
Even Parity Bits:	Qty:	13	Start:	0					
Odd Parity Bits:	Qty:	13	Start:	13					
Set As Default For New Controllers									
Fdit									
Сору	<u>Remove</u> <u>Cancel</u>								

- 4. Enter the appropriate number in the correct card format
 - Bit Quantity total number of bits.
 - Facility Code Quantity and Starting Bit.
 - Cardholder ID Quantity and Starting Bit.
 - Issue Code (if needed, magstripe only) Quantity and Starting Bit.
 - Even Parity Bits Quantity and Starting Bit.
 - Odd Parity Bits Quantity and Starting Bit.

fields.

🍘 Card Formats D	ialog				×		
Description: Format Number: Card ID Offset:	HID 37 BI	T (H10304) Facility Cod Card Forma	with FC e: 51 t: W	FC v 55 Wiegand v			
Card Flags: Bits Quantity: Facility Code: Cardholder ID: Issue Code: Even Parity Bits: Odd Parity Bits:	0 Bits: Qty: Qty: Qty: Qty: Qty:	37 y: 19 y: 19 y: 0 y: 19 y: 19 y: 19 y: 19		Start: 1 Start: 17 Start: 0 Start: 0 Start: 18			
Set As Default For New Controllers Edit Copy Remove Copy Concel							

- Click the Save button to save the configuration.
 The new format is added to the Description drop-down.
- Assign the card format to the controller.
 See page 3-11 for information on assigning a card format to a controller.

Copying a Card Format

1. **Right-click** on the Controller in the Hardware Browser and **select** Card Formats from the context menu. The Card Formats Dialog box opens.

Card Formats Dialog X X									
Description:	Description: HID 26 BIT With FC								
Format Number:	1	Facility Cod	e:	0					
Card ID Offset:	0	Card Forma	Wiegand 🔹						
Card Flags:	0								
Bits Quantity:	Bits:	26							
Facility Code:	Qty:	8	Start	:	1				
Cardholder ID:	Qty:	16	Start:		9				
Issue Code:	Qty:	0	Start	:	0				
Even Parity Bits:	Qty:	13 S		:	0				
Odd Parity Bits:	Qty:	13	Start	:	13				
Set As Default For New Controllers									
Vew									
Copy	Cogy 2 Remove S Gose								

2. **Select** the card format from the Description drop-down and **click** the Copy button. The Copy button allows the selected card format to be copied.

@ Card Formats Dialog									
Description: HID 26 BIT With FC (copy)									
Format Number:		Facility Cod	e:	: 0					
Card ID Offset:	0	Card Forma	t:	Wiegand					
Card Flags: 0									
Bits Quantity:	Bits:	26							
Facility Code:	Qty:	8	Start	:	1				
Cardholder ID:	Qty:	16	Start	:	9				
Issue Code:	Qty:	0	Start	:	0				
Even Parity Bits:	Qty:	13	Start	:	0				
Odd Parity Bits:	Qty:	13	Start	:	13				
Set As Default For New Controllers									
🖤 <u>E</u> dit		ave Save							
Copy	Copy								

- 3. **Change** the name in the Description field.
- 4. If needed, enter or change the Facility Code.
- 5. If needed, **change** any desired bit structure values.
- Click the Save button to save the configuration.
 The new format is added to the Description drop-down.

Editing a Card Format

1. **Right-click** on the Controller in the Hardware Browser and **select** Card Formats from the context menu.

The Card Format Dialog opens.

@ Card Formats Dialog										
Description:	HID 26 BI	T With FC		-						
Format Number:	1 Facility Code: 0									
Card ID Offset:	0	0 Card Format: Wiegand								
Card Flags:	Card Flags: 0									
Bits Quantity:	Bits:	26								
Facility Code:	Qty:	8	Start:	1						
Cardholder ID:	Qty:	16	Start:	9						
Issue Code:	Qty:	0	Start:	0						
Even Parity Bits:	Qty:	13	Start:	0						
Odd Parity Bits:	Qty:	13	Start:	13						
Set As Default Fo	or New Control	llers								
Image: Second and the monotonic second and the second and										
Сору	Copy D Remove									

- 2. Click the Edit button.
- 3. **Edit** the desired values in the card format fields.
- 4. Click the Save button to save the changes.

Removing a Card Format

- 1. Select the desired card format from the Description drop-down menu.
- 2. Click on the Remove button.

@ Card Formats Dialog X									
Description: HID 26 BIT With FC									
Format Number:	1	Facility Code: 0							
Card ID Offset:	0	Card Forma	t:	Wie	gand	-			
Card Flags:	0								
Bits Quantity:	Bits:	26							
Facility Code:	Qty:	8	Start	:	1				
Cardholder ID:	Qty:	16	Start	:	9				
Issue Code:	Qty:	0	Start:		0				
Even Parity Bits:	Qty:	13	Start	:	0				
Odd Parity Bits:	Qty:	13	Start	:	13				
Set As Default For New Controllers									
Ver Edit									
Сору	<u>Remove</u> <u>O</u> lose								

This Page Intentionally Left Blank

Gathering Card Format Information

DNA allows the operator to easily identify the bit format and the facility code for an access credential.

Event Data

For new DNA Fusion installs the Event Data column may not be set in the Events Manager.

To add the Event Data column to the Events Manager:

- 1. **Right-click** in the Events Manager.
- 2. **Select** Grid > Grid Properties.

	18	Monitor Point Active								NORMAL
	18	Monitor Point Active	Monitor Point Active							NORMAL
	18	Monitor Point Active	Monitor Point Active							NORMAL
	18	Monitor Point Active								NORMAL
	18	Monitor Point Active			_					NORMAL
	18	Monitor Point Active		Filters	۲					NORMAL
Entrances (RSC2S3)	148	SIO Power Monitor		Hardware	Þ					NORMAL
Entrances (RSC2S3)	145	SIO Tamper Monito		Personnel	۲					NORMAL
Entrances (RSC2S3)	144	On-Line: Normal Co		E-Mail Event						NORMAL
	43	Control Point Deact		Reports	Þ					NORMAL
	43	Control Point Deacti Grid			•		Grid Properties			NORMAL
	43	Control Point Deact		Refresh			Save Settings Ctrl+S Load Settings			NORMAL
	43	Control Point Deact	vate	a	-					NORMAL
	43	Control Point Deact	ivate	d			Export.			NORMAL
	43	Control Point Deact	ivate	d		0	Pause S	crolling		NORMAL
Entrances (RSC2S3)	144	On-Line: Normal Co	onne	tion		٩	Print Pr	eview		NORMAL
Entrances (RSC2S3)	141	Off-Line: Timeout (No/B	ad Response From	υ		Print		Ctrl+P	NORMAL
Business Hours	224	Became Active					Auto Fi	t Grid		NORMAL
	43	Control Point Deactivated			_				NORMAL	
	18	Monitor Point Active								NORMAL
	18	Monitor Point Active								NORMAL
1.1:Power Tamper (ALARM)	134	SSP Local Monitor P	oints	(ALARM)						NORMAL

The Events Grid Settings opens.

3. Select Grid Columns.

Events Grid Settings			×
Grid Properties	Grid Properties		
Grid Columns	Grid Behavior	General Appearance	
	Draw Horizontal Grid Lines	First Column: 🚺 Object T	ype Icons
	Draw Vertical Grid Lines	Grid Font: Verdana	~
	Allow Operator to Resize Row Height	Font Size: 10 💌	
	Allow Operator to Resize Columns	Refresh Rate: 1.25 -	Seconds
	Auto Size Columns Width		
	Auto Expand Last Column		
V Ok			
X Cancel			
Help			

4. Select Add.

Events Grid Settings		×
Grid Properties Grid Colors	olumns	
Grid Columns Headi	ng Text Field	Icon Field
ID	*None*	Group Type
Event	Time Event Time	e Homepage
Addre	ss Address	Source Type
Descri	ption Description	n Camera
Index	Index	*None*
Event	Description Event Descr	cription *None*
Card #	# Card #	Card Type
Last N	lame Last Name	e Card flags
First N	lame First Name	e *None*
Persor	nnel Types Personnel T	Types PHOTOs
V Ok Fixed (Columns: 1 column	n 🔽
X Cancel	Move D Move	re Lip 🔌 Defaults 📴 Edit 🔕 Bernove 🚺 Add
Help		

- 5. Add a Heading.
- 6. Select the Text Field drop-down menu and select Event Data.

Events Grid Settin	ngs							×		
Grid Propertie	s	Grid Columns								
Grid Colors		Heading	Text Field	ld Icon Field						
		ID	*None*	Group Type						
		Event Time	e Event Tir		Homepage					
		Address	Address		Source Type					
		Description	Descripti	on	Camera					
		Index	Index		*None*					
		Event De 🛞 DNA	Events G	rid Colum	ns	×				
Card # Column Para				eters -		_				
Last Nan Heading:			ing:	Event D	ata					
		First Nan	nuu.	***						
		Personne	neid:	"None"	· · · · · · · · · · · · · · · · · · ·					
		Text	Field:	Event D	ata 🔹					
				None Group T	vne					
				Event Ti	me					
J Ok		Fixed Columns:	1 colur	Address	me .					
				Descript Event In	ion idex	5				
🗶 Cance	al	Move D	P M	Event D	escription to the secret of th	۱ <u>۱</u>	Memove Add			
				Facility (Code					
A Help				First Nar	ne ne					
				Event D Personn	ata el Type					
				Tenant I	ID ID					
				A.P.B. Z	lone					
				Card Type Site						
(,	Controll	er Type					
136	136 Autosave of Configuration data		tabase co	se co Priority			NORMAL			
132 Host COMM On-Line		1 On-Line	On-Line		Level		NORMAL			
989	Station Cor	nnected to Site Driv	/er	Panel GI Event Sc	MT Offset ource		NORMAL			

7. **Click** Ok.



Card Bit and Facility Code Information

Card bit information and facility codes can be seen on the Event Data column.

To see card bit information and facility code:

- 1. **Present** the card to the reader.
- 2. **Open** the Events Manager.
- 3. Locate the Access Denied: Invalid Card event to determine the bit format.

I	ID	Event Time	Address	Description	Index	Event Description		Last Name	First Name	Personnel Types	Event Data
l	ô.	03/01/21 12:15:09	1.1.D1	Front Entrance	50	Access Denied: Invalid Card Format				NORMAL	26 bits: 00642f3d
Ĩ	ñ.	03/01/21 12:15:06	1.1.D1	Front Entrance	50	Access Denied: Invalid Card Format				NORMAL	26 bits: 00642a89

- 4. Determine if there is a generic card format or **create** a new format with the card bit structure. See Chapter 4 for bit structure examples.
- 5. **Assign** the generic card format that contains the same bit structure as the card to the SSP. See Assigning a Card Format to the SSP below.

In the example, the HID 26 BIT With FC would be selected or created.



- 6. **Present** the same card to the reader a second time.
- 7. Check the Event Data for the Access Denied: Facility Code event to determine the Facility Code (FC).

ID	Event Time	Address	Description	Index	Event Description	Card #	Last Name	First Name	Personnel Types	Event Data
Å.	03/01/21 12:26:59	1.1.D1	Front Entrance	53	Access Denied: Facility Code	i 5			NORMAL	Fmt: 0, FC: 50 Issue: -1
N	03/01/21 12:26:49	1.1.2	Entrances (RSC2S3)	144	On-Line: Normal Connection				NORMAL	SIO: 2 - 3:Online, Model: 8

8. Create the card format by following the instructions on page 3-4 for Copying a Card Format.

9. **Assign** the newly created card format to the SSP. See Assigning a Card Format to the SSP below.

- 10. **Overwrite** or **delete** the generic card format added in step 3.
- 11. **Download** the changes to the SSP.

This Page Intentionally Left Blank

Assigning a Card Format to the SSP

Up to sixteen card formats (0-15) may be active simultaneously for each controller. Multiple card formats allow different facility codes or bit structures to be used. This is frequently seen in large corporate systems.

1. From the Hardware Browser, right-click on the SSP.

Ø dnaFusion - Events						
File View DNA Hardy	ware Pers	onnel Ev	rents Reports	Tools		
Q		a	\odot	Þ		
DNA Personnel	Hardware	Access	Time	Triggers		
Hardware	Hardware					
	10-TB					
🖨 📲 1.1: Main Office				10		
😑 📃 Doors 🛛 🔓	Propertie	25				
iii-5 1 .1.D	Promote	SSP		A.		
Time Sche	Edit Cha	nnel		2		
1.1.1: Ma 📾	Status			81		
🗉 📲 1.1.2: Ent	Controll	er Commar	nds 🕨			
				-		
	Add		•	<u>A</u>		
6	Delete			ð.		
	Journal					
	Card For	mats		A.		
	Web Ser	vice Crede	ntials	811		
Q	Web Log	jin		-		
8	Template	s		<u>a</u>		
				-		
•	Downloa	ad		. S		
	Reports.		•	6		
6	Homepa	ge		6		
📟 ALL Obj 🔹 Input P.	Refresh :	Status		1		
Personnel	Where U	sed		2		
B 🎒 Employee Name						
				*		

2. **Select** Properties from the context menu. The Controller Properties dialog opens.

Hardware Properties: Controller	r1.1					×
Controller Properties	Controller Properti	es				
- Stored Quantities	Channels					
Cards and Dual Comm	SSP Channel:	Channel 1 (Ethernet	(TCP/IP))		Properties	
	Attributes Site:	Site 1: SUPPRT-W10		Downle	oad On Demand Exempt	
	SSP Number:	SSP: 1		Physical Address:	0	
	SSP Description:	Main Office				
	Controller Type:	SSP-D2	Controller Enabled	Serial Number:	520	
			Force LP Controller Id	entity		
	Home Page:					
						_
	Connection Time I	arameters			(a-a	
	GMT Offset:	GMT - 00:00	Use Dayis	int savings	Edit Table	
	Time Sched. Set:	Derault				
	Holiday Set:	Default	- Ho	ist Response Time:	0 Seconds 💽	
	Connection					
V UK	Connection Type:	Ethernet (TCP/IP)	IP Address:	10.0.28	3.224 🛛 📲 Ping	
	Poll Delay:	500 millisecond	-			
X Cancel	Baud Rate:	38400	 SSP Channel 	4:	1	
	Offline Time:	15000 ms (default)	 Retry Count: 	3 retrie	s (default) 🔄	
Help	Downstream Port					=
	Port 1 Baud Rate:	38400	-			
	PIV Authenticatio	n				
	 None 			 Entry I 	Point	
						_

3. Select the Cards and Dual Comm tab from the dialog menu.

Controller Properties	Controller Proper	ties				
Cards and Dual Comm	Channels					
	SSP Channel:	Channel 1 (Ethernet (TCP)	/IP))	9: Properties		
	Attributes Site:	Site 1: SUPPRT-W10		Download On Demand Exempt		
	SSP Number:	SSP: 1 💌	Physical A	ddress: 0		
	SSP Description:	Main Office				
	Controller Type:	Controller Type: SSP-D2 Controller Enabled Serial Number: 520				
			e LP Controller Identity			
	Home Page:					
	Connection Time Parameters					
	GMT Offset:	GMT - 06:00	 Use Daylight savings 	Edit Table		
	Time Sched, Set:	Default	·	True Data I		
	Holiday Set.	Derauit	- Host Nespons	a nine. U Seconds 💽		
V Ok	Connection	Ethornet (TCD/ID)				
	Poll Delay:	500 millisecond	IP Address:	10.0.28.224		
X Cancel	Baud Rate:	38400	 SSP Channel: 	1		
	Offline Time:	15000 ms (default)	- Retry Count: 3	retries (default)		
🕜 Help	- Downstroom Ro	ete .				
	Port 1 Baud Rate:	38400	*			
	PIV Authenticat	lion				

4. Select the desired formats (0-15) from the Card Formats drop-down fields.

Hardware Properties: Control	ller I.I	×					
Controller Properties	Cards and Dual Comm						
Cards and Dual Comm	Card Formats						
	0. HID 26 BIT With FC						
	1. HID 26 BIT Wultiple FC 9. • 2. HID 26 BIT Wultiple FC 10. • 3. Insertion: Wegand Format 11. • Magstripe No FC with 7:20 12. • • OO Card format 12. • • Vanderbit 25 bit Format 13. • • Vanderbit 32 bit Format 14. • • 7. • 15. •						
	Edit Card Formats Reset All Host Macro: *None* Kitemate Ports						
	Enable						
V Ok	Connection Type: Serial						
	Phone Number:						
💢 Cancel	Atemate Channel: 1 (Ethernet (TCP/IP)): COM 1						
Help	Pol Delay: 300 millisecond *						

- 5. **Click** OK to save the formats to the controller.
- 6. **Click** Yes to download.

Card Format Catalog



In This Section:

- Wiegand Card Type
- Magnetic Stripe Card Type

Card Format Catalog

This chapter contains a catalog of card bit configurations that are commonly used in DNA Fusion. Each format contains the bit structure of the card as well as an image of an example.

Wiegand Type Card Formats

The list below contains both the preset DNA Fusion card configurations and other commonly used configurations under the Wiegand format:

- HID 26 Bit Multiple FC (Facility Code)*
- HID 26 Bit with FC*
- 32 Bit Format without FC
- Motorola 32 Bit Format with FC (ignore parity)
- HID 35 Bit Format with FC
- HID 36 Bit Format with FC
- HID 37 Bit (H10302) without FC
- HID 37 Bit (H10304) with FC
- Motorola 37 Bit Format with FC (Indala)

*- Card formats that are preset in DNA Fusion

- HID 48 Bit Corporate 1000
- OO Card Format*
- Vanderbilt 26 Bit Format*
- Vanderbilt 32 Bit Format*
- Vanderbilt 37 Bit Format*
- HID 34 Bit (N1002) Format
- HID 37 Bit (S10401) Format
- Act ID Card Format
- PopID Card Format
- ASSA MiFare 56 Bit Format

Information about other card formats that are supported in DNA Fusion is included in the following pages. Each card format features an image of the Card Formats Dialog along with the bit structure.

HID 26 Bit with FC

This format consists of 2 parity bits, an 8-bit Facility Code, 16-bit Cardholder ID, 13 Even and Odd Parity bits.

Bits Quantity	Bits: 26			
Card Format Field	Quantity	Starting Bit		
Facility Code	8	1		
Cardholder ID	16	9		
Issue Code	0	0		
Even Parity Bits	13	0		
Odd Parity Bits	13	13		

@ Card Formats Dialog						
Description: HID 26 BIT With FC 🔹						
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	Ŧ
Card Flags:	0					
Bits Quantity:	Bits:	26				
Facility Code:	Qty:	8	Start		1	
Cardholder ID:	Qty:	16	Start		9	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	13	Start		0	
Odd Parity Bits:	Qty:	13	Start		13	
Edit New Save						

HID 26 Bit with Multiple FC

This format consists of a 24-bit Cardholder ID and 13-bit Even and Odd Parity fields.

Bits Quantity	Bits: 26		
Card Format Field	Quantity	Starting Bit	
Facility Code	0	0	
Cardholder ID	24	1	
Issue Code	0	0	
Even Parity Bits	13	0	
Odd Parity Bits	13	13	

Note: Add a 2 in the Card Flags so that the format ignores facility code checking.

© Card Formats Dialog						
HID 26 BI	HID 26 BIT Multiple FC 🔹					
2	Facility Cod	le: -1				
0	Card Forma	t:	Wie	gand	•	
2						
Bits:	26					
Qty:	0	Start	:	0		
Qty:	24	Start		1		
Qty:	0	Start	:	0		
Qty:	13	Start	:	0		
Qty:	13	Start	:	13		
Set As Default For New Controllers						
Fdit						
Copy						
	ialog HID 26 BI 2 0 2 U Bits: City:	ialog HID 26 BIT Multiple F 2 Facility Cod 0 Card Forma 2 Bits: 26 City: 0 City: City: 0 City: City: 13 City: City: 13 City: Image: New Controllers Image: New Controllers	ialog HID 26 BIT Multiple FC 2 Facility Code: 0 Card Format: 2 Bits: 26 City: 0 Start City: 24 Start City: 13	ialog HID 26 BIT Multiple FC 2 Facility Code: -1 0 Card Format: Wrie 2 Bits: 26 City: 0 Start: City: 24 Start: City: 13 Start: City: 24 Start	ialog HID 26 BIT Multiple FC 2 Facility Code: -1 0 Card Format: Wiegand 2 Bits: 26 City: 0 Start: 0 City: 24 Start: 1 City: 13 Start: 0 City: 13 Start: 0 City: 13 Start: 13 vr New Controllers I New Cancel Can	

32 Bit Format Without FC

This format consists of a 32-bit Cardholder ID, 0 Facility Code bits, and no parity check.

Bits Quantity	Bits: 32		
Card Format Field	Quantity	Starting Bit	
Facility Code	0	0	
Cardholder ID	32	1	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

Ø Card Formats Dialog ×						
Description: 32 Bit Format without FC *						
Format Number:		Facility Cod	Code: 0			
Card ID Offset:	0	Card Forma	t:	Wiegand		*
Card Flags:	0					
Bits Quantity:	Bits:	32				
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	32	Start		1	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	0	Start		0	
Odd Parity Bits:	Qty:	0	Start		0	
Image: Copy Image: Copy Image: Copy Image: Copy Image: Copy Image: Copy						

Motorola 32 Bit Format with FC

This format ignores parity bits and consists of a 15-bit Facility Code and a 15-bit Cardholder ID.

Bits Quantity	Bits: 32			
Card Format Field	Quantity	Starting Bit		
Facility Code	15	1		
Cardholder ID	15	16		
Issue Code	0	0		
Even Parity Bits	0	0		
Odd Parity Bits	0	0		

@ Card Formats Dialog					×	
Description:	Motorola 3	Motorola 32 BIT Format with FC 🔹				-
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	-
Card Flags:	0					
Bits Quantity:	Bits:	32				
Facility Code:	Qty:	15	Start		1	
Cardholder ID:	Qty:	15	Start:		16	
Issue Code:	Qty:	0	Start:		0	
Even Parity Bits:	Qty:	0	Start	:	0	
Odd Parity Bits:	Qty:	0	Start	:	0	
Fedit		ew emove		3 8	<u>S</u> ave Cancel	

HID 35 Bit Format with FC

The HID 35 Bit Format with facility code is proprietary. The format consists of 3 parity bits, 12-bit facility code, 20-bit Cardholder ID , and a 35-bit Odd Parity.

Bits Quantity	Bits: 35		
Card Format Field	Quantity	Starting Bit	
Facility Code	12	2	
Cardholder ID	20	14	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	35	0	

@ Card Formats Dialog					
Description:	HID 35 BIT Format with FC				
Format Number:		Facility Cod	le:	0	
Card ID Offset:	0	Card Forma	t:	Wiegand 🔹	
Card Flags:	0				
Bits Quantity:	Bits:	35			
Facility Code:	Qty:	12	Start	: 2	
Cardholder ID:	Qty:	20	Start	t: 14	
Issue Code:	Qty:	0	Start	t: 0	
Even Parity Bits:	Qty:	0	Start	t: 0	
Odd Parity Bits:	Qty:	35	Start	t: 0	
Fedit	New Save			Save	

HID 36 Bit Format with FC

The HID 36 Bit Format with facility code has 3 parity bits and consists of an 8-bit Facility Code and a 24-bit Cardholder ID.

Bits Quantity	Bits: 36			
Card Format Field	Quantity Starting I			
Facility Code	8	1		
Cardholder ID	24	11		
Issue Code	0	0		
Even Parity Bits	0	0		
Odd Parity Bits	0	0		

@ Card Formats Dialog						Х
Description:	HID 36 BIT Format with FC 🔹					
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	-
Card Flags:	0					
Bits Quantity:	Bits:	36				
Facility Code:	Qty:	8	Start		1	
Cardholder ID:	Qty:	24	Start	:	11	
Issue Code:	Qty:	0	Start	:	0	
Even Parity Bits:	Qty:	0	Start:		0	
Odd Parity Bits:	Qty:	0	Start	:	0	
Fedit	Image: Save Image: Cogy Image: Cogy <t< td=""><td></td></t<>					

HID 37 Bit (H10302) without FC (1)

The HID 37 Bit Format without facility code has two listed bit structures. This format consists of 2 parity bits and a 35-bit Cardholder ID.

Bits Quantity	Bits: 37			
Card Format Field	Quantity	Starting Bit		
Facility Code	0	0		
Cardholder ID	35	1		
Issue Code	0	0		
Even Parity Bits	19	0		
Odd Parity Bits	19	18		

Gard Formats Dialog X X					
Description:	HID 37 BIT (H10302) Without FC				
Format Number:		Facility Cod	le: I	D	
Card ID Offset:	0	Card Forma	t: 🚺	Viegand	•
Card Flags:	0	7			
Bits Quantity:	Bits:	37			
Facility Code:	Qty:	0	Start:	0	
Cardholder ID:	Qty:	35	Start:	1	
Issue Code:	Qty:	0	0 Start:		
Even Parity Bits:	Qty:	19	Start:	0	
Odd Parity Bits:	Qty:	19	Start:	18	
🛊 Edit		<u>V</u> ew	F	<u>S</u> ave	
Copy	(x)	Remove	6	<u>C</u> ancel	

HID 37 Bit (H10302) without FC (2)

The HID 37 Bit Format without facility code has two listed bit structures. This format consists of 2 parity bits, a 35-bit Cardholder ID, and 0 Even and Odd Parity bits.

Bits Quantity	Bits: 37		
Card Format Field	Quantity Starting		
Facility Code	0	0	
Cardholder ID	35	1	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

Gard Formats Dialog X X						
Description:	HID 37 BIT (H10304) without FC 🔹					
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	•
Card Flags:	0					
Bits Quantity:	Bits:	37				
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	35	Start: 1		1	
Issue Code:	Qty:	0	Start:		0	
Even Parity Bits:	Qty:	0	Start	:	0	
Odd Parity Bits:	Qty:	0	Start	:	0	
Edit Logy K Bemove Cogy Cogy Cogy						

HID 37 Bit (H10304) with FC (1)

The HID 37 Bit (H10304) with facility code has two listed bit structures. This format consists of 2 parity bits, 16-bit Facility Code, and a 19-bit Cardholder ID.

Bits Quantity	Bits: 37		
Card Format Field	Quantity Starting		
Facility Code Bits	16	1	
Cardholder ID Bits	19	17	
Issue Code	0	0	
Even Parity Bits	19	0	
Odd Parity Bits	19	18	

@ Card Formats Dialog					×	
Description:	HID 37 BIT (H10304) with FC					
Format Number:		Facility Co	de:	0		
Card ID Offset	0	Card Form	at	Wie	gand 🔤	•
Card Flags:	0	0				
Bits Quantity:	Bits:	37				
Facility Code:	Qty:	16	Star	t	1	
Cardholder ID:	Qty:	19	Start		17	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	19	Star	t	0	
Odd Parity Bits:	Qty:	19	Star	E	18	
Fedit	Edit New Save					

HID 37 Bit (H10304) with FC (2)

The HID 37 Bit (H10304) with facility code has two listed bit structures. This format (2) consists of 2 parity bits, 16-bit Facility Code, a 19-bit Cardholder ID, and 0 Even and Odd Parity bits.

Bits Quantity	Bits: 37			
Card Format Field	Quantity Starting			
Facility Code	16	1		
Cardholder ID	19	17		
Issue Code	0	0		
Even Parity Bits	0	0		
Odd Parity Bits	0	0		

Card Formats Dialog X						
Description:	ription: HID 37 BIT (H10304) with FC 💌					
Format Number:		Facility Co	de:	0		
Card ID Offset:	0	Card Form	nat	Wie	gand	-
Card Flags:	0					
Bits Quantity:	Bits:	37				
Facility Code:	Qty:	16	Star	t	1	
Cardholder ID:	Qty:	19	Star	t	17	
Issue Code:	Qty:	0	Star	t	0	
Even Parity Bits:	Qty:	0	Star	t	0	
Odd Parity Bits:	Qty:	0	Star	t	0	
Edit New Copy Remove						

Motorola 37 Bit Format with FC (Indala)

The Motorola 37 Bit format with facility code (Indala) consists of 2 parity bits, 10-bit facility code, 16-bit Cardholder ID, 6 bit Issue Code, 18 Even Parity bits, and 19 Odd Parity bits.

Bits Quantity	Bits: 37		
Card Format Field	Quantity	Starting Bit	
Facility Code	10	4	
Cardholder ID	16	20	
Issue Code	6	14	
Even Parity Bits	18	0	
Odd Parity Bits	19	18	

Gard Formats Dialog X X					Х	
Description: Motorola 37 BIT Format with FC (Indal						
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	-
Card Flags:	0					
Bits Quantity:	Bits:	37				
Facility Code:	Qty:	10	Start		4	
Cardholder ID:	Qty:	16	Start		20	
Issue Code:	Qty:	6	Start		14	
Even Parity Bits:	Qty:	18	Start		0	
Odd Parity Bits:	Qty:	19	Start		18	
Edit		ew		Ø 8	<u>S</u> ave Cancel	

HID 48 Bit Corporate 1000

The HID 48 Bit Corporate 1000 card format consists of 2 parity bits, 22-bit Facility Code and 23-bit Cardholder ID.

Bits Quantity	Bits 48		
Card Format Field	Quantity Starting		
Facility Code Bits	22	2	
Cardholder ID Bits	23	24	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

@ Card Formats Dialog ×						
Description: HID 48 BIT Corporate 1000 💌						
Format Number:		Facility Co	de:	0		
Card ID Offset	0	Card Form	nat	Wie	gand	¥
Card Flags:	0					
Bits Quantity:	Bits:	48				
Facility Code:	Qty:	22	Star	t	2	
Cardholder ID:	Qty:	23	Star	t	24	
Issue Code:	Qty:	0	Star	t	0	
Even Parity Bits:	Qty:	0	Star	t	0	
Odd Parity Bits:	Qty:	0	Star	E	0	
Copy	Ne X Re	ew		Ø : 8 (Save Cancel	

OO Card Format

The OO Card Format consists of 2 parity bits, 31-bit Facility Code, 31-bit Cardholder ID, 63 Even Parity bits, and 63 Odd Parity bits.

Bits Quantity	Bits: 64		
Card Format Field	Quantity Starting		
Facility Code Bits	31	1	
Cardholder ID Bits	31	32	
Issue Code	0	0	
Even Parity Bits	63	0	
Odd Parity Bits	63	1	

@ Card Formats Dialog X						
Description:	OO Card Format				-	
Format Number:		Facility Co	de:	0		
Card ID Offset:	0	Card Form	at:	Wie	gand	-
Card Flags:	0					
Bits Quantity:	Bits:	64				
Facility Code:	Qty:	31	Start		1	
Cardholder ID:	Qty:	31	Start		32	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	63	Start		0	
Odd Parity Bits:	Qty:	63	Start		1	
🛠 Edit	x	<u>N</u> ew <u>R</u> emove		3	<u>S</u> ave Cancel	

Vanderbilt 26 Bit Format

The Vanderbilt 26 Bit format consists of 72 total bits. The total bits consist of an 8-bit Facility Code and a 16-bit Cardholder ID.

Bits Quantity	Bits: 72		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	8	64	
Cardholder ID Bits	16	24	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

@ Card Formats Dialog					
Description:	Description: Vanderbilt 26 bit Format				
Format Number:		Facility Cod	le:	0	
Card ID Offset:	0	Card Forma	t:	Wieg	and 💌
Card Flags:	0				
Bits Quantity:	Bits:	72			
Facility Code:	Qty:	8	Start	- [64
Cardholder ID:	Qty:	16	Start		24
Issue Code:	Qty:	0	Start		0
Even Parity Bits:	Qty:	0	Start		0
Odd Parity Bits:	Qty:	0	Start	- [0
Image: Cogy Image: Cogy Image: Cogy Image: Cogy					

Vanderbilt 32 Bit Format

The Vanderbilt 32 Bit format consists of 72 total bits. The total bits consist of a 32-bit Cardholder ID.

Bits Quantity	Bits: 72		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	0	0	
Cardholder ID Bits	32	8	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

@ Card Formats Dialog					×	
Description:	Description: Vanderbilt 32 bit Format					•
Format Number:		Facility Cod	le:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	-
Card Flags:	0					
Bits Quantity:	Bits:	72				
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	32	Start		8	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	0	Start		0	
Odd Parity Bits:	Qty:	0	Start		0	
🖈 Edit		ew emove		Ø 8	<u>S</u> ave Cancel	

Vanderbilt 37 Bit Format

The Vanderbilt 37 Bit format consists of a total of 72 bits. The total bits consist of a 16-bit Facility Code and a 19-bit Cardholder ID.

Bits Quantity	Bits: 72		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	16	56	
Cardholder ID Bits	19	21	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

Card Formats Dialog						
Description:	Vanderbilt 37 BIT Format					
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	-
Card Flags:	0	1				
Bits Quantity:	Bits:	72				
Facility Code:	Qty:	16	Start		56	
Cardholder ID:	Qty:	19	Start		21	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	0	Start		0	
Odd Parity Bits:	Qty:	0	Start		0	
¥ <u>E</u> dit		lew	5	Ì	<u>S</u> ave	
Copy	X	emove		8	<u>C</u> ancel	

HID 34 Bit (N1002) Format

The HID 34 Bit (N1002) format consists of a total of 34 bits. The total bits consist of a 16-bit Facility Code and a 16-bit Cardholder ID.

Bits Quantity	Bits: 34		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	16	0	
Cardholder ID Bits	16	17	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

© Card Formats Dialog					
Description:	HID 34 BIT (N1002) Format				
Format Number:		Facility Cod	e:	0	
Card ID Offset:	0	Card Forma	t:	Wieg	and 💌
Card Flags:	0				
Bits Quantity:	Bits:	34			
Facility Code:	Qty:	16	Start		0
Cardholder ID:	Qty:	16	Start	: [17
Issue Code:	Qty:	0	Start	: [0
Even Parity Bits:	Qty:	0	Start	: [0
Odd Parity Bits:	Qty:	0	Start	: [0
Edit Copy		ew emove		: کې ک	2 <mark>ave</mark> 2ancel

HID 37 Bit (S10401) Format

The HID 37 Bit (S10401) format consists of a total of 37 bits. The total bits consist of a 4-bit Facility Code, 16-bit Cardholder ID, and 19 Even and Odd Parity bits.

Bits Quantity	Bits: 37		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	4	3	
Cardholder ID Bits	16	7	
Issue Code	0	0	
Even Parity Bits	19	0	
Odd Parity Bits	19	18	

@ Card Formats D	ialog					×
Description:	HID 37 Bit (S10401) Format 🔹				-	
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	*
Card Flags:	0					
Bits Quantity:	Bits:	37				
Facility Code:	Qty:	4	Start		3	
Cardholder ID:	Qty:	29	Start		7	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	19	Start	:	0	
Odd Parity Bits:	Qty:	19	Start		18	
Edit	N R	ew emove		Ø 8	Save Cancel	

ACT ID Card Format

The ACT ID Card Format consists of 32 total bits. The bits consist of 2 Card Flags and 32 Cardholder ID bits.

Bits Quantity	Bits: 32		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	0	0	
Cardholder ID Bits	32	0	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

Card Formats Dialog						
Description:	ACT ID C	ard Format				•
Format Number:		Facility Cod	le:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	•
Card Flags:	2					
Bits Quantity:	Bits:	32				
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	32	Start		0	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	0	Start		0	
Odd Parity Bits:	Qty:	0	Start		0	
Set As Default Fo	or New Contro	llers				
₽ <u>E</u> dit	New			<u>S</u> av	/e	
Сору		ove		<u>C</u> ar	ncel	

PopID Card Format

The PopID Card Format consists of 34 total bits. The bits consist of a 34-bit Cardholder ID.

Bits Quantity	Bits: 34		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	0	0	
Cardholder ID Bits	34	0	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

@ Card Formats Dialog					×	
Description:	PopID Card Format					
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	•
Card Flags:	0					
Bits Quantity:	Bits:	34				
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	34	Start		1	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	0	Start		0	
Odd Parity Bits:	Qty:	0	Start		0	
Set As Default F	or New Contro	llers				
🕊 <u>E</u> dit	New		Ŀ	<u>S</u> av	/e	
Copy		ove	6	<u>C</u> ar	ncel	
· · · · · · · · · · · · · · · · · · ·						

ASSA MiFare 56 Bit Format

The ASSA MiFare 56 Bit Format consists of 56 total bit. The bits consist of a 16-bit Cardholder ID, starting at bit 39.

Bits Quantity	Bits: 56		
Card Format Field	Quantity	Starting Bit	
Facility Code Bits	0	0	
Cardholder ID Bits	16	39	
Issue Code	0	0	
Even Parity Bits	0	0	
Odd Parity Bits	0	0	

@ Card Formats Dialog					\times	
Description:	ASSA MiFa	ASSA MiFare 56 Bit Format				•
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Forma	t:	Wie	gand	*
Card Flags:	2					
Bits Quantity:	Bits:	56				
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	16	Start		39	
Issue Code:	Qty:	0	Start		0	
Even Parity Bits:	Qty:	0	Start		0	
Odd Parity Bits:	Qty:	0	Start		0	
Set As Default Fo	r New Contro	llers				
≇ <u>E</u> dit	New			<u>S</u> av	/e	
Copy	Remo	ve		<u>C</u> ar	ncel	

Magnetic Stripe Card Format Type

The list below contains both the preset DNA Fusion card configurations and other configurations under the **Magnetic Stripe (MAG)** format:

- Magstripe with FC
- UCF Magstripe
- Magstripe No FC with 7-20
- Insertion: Wiegand Format
- Magstripe: 4 digit FC with 11-20
 - \ast Card formats that are preset in DNA Fusion

Images of the card configurations are displayed in this section with each card's specific bit configuration. Magnetic stripe card bits are displayed as digits in DNA Fusion.

Magstripe with FC

The Magstripe with Facility code consists of a 4-digit Facility Code, 5-digit Cardholders ID, and 2-digit Issue Code digit.

Digit Quantity	Min : 11	Max 20
Card Format Field	Digit Quantity	Starting Digit
Facility Code	4	5
Cardholder ID	5	0
Issue Code	2	9

Card Formats	Dialog				×
Description:	Magstripe	with FC			
Format Number:		Facility Co	de:	0	
Card ID Offset	0	Card Form	at	MAG	; •
Card Flags:	0				
Digit Quantity:	Min:	11	Max		20
Facility Code:	Qty:	4	Star	t	5
Cardholder ID:	Qty:	5	Star	t	0
Issue Code:	Qty:	2	Star	t	9
# Edit	Ne	w	5	F S	Save
Сору	K Re	move		8	Cancel

Magstripe No FC with 0-40

The Magstripe No FC consists of a 10-digit Cardholder ID and no Facility Code digits.

Digit Quantity	Min : 0	Max : 40
Card Format Field	Quantity	Starting Digit
Facility Code	0	0
Cardholder ID	10	20
Issue Code	0	0

🍘 Card Formats D	ialog					×
Description:	Magstripe	No FC with	0-40			•
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Format	t:	MAG	3	-
Card Flags:	0					
Digit Quantity:	Min:		Max		40	
Facility Code:	Qty:	0	Start		0	
Cardholder ID:	Qty:	10	Start		20	
Issue Code:	Qty:	0	Start		0	
						_
🎔 <u>E</u> dit	Ne	ew	5	Ø	<u>S</u> ave	
Сору	× Be	emove		8	<u>C</u> ancel	

Magstripe No FC with 7-20

The Magstripe no Facility code with 7-20 consists of only a 5-digit facility code.

Digit Quantity	Min : 7	Max : 20
Card Format Field	Quantity	Starting Digit
Facility Code	0	0
Cardholder ID	5	0
Issue Code	0	0

Description:	Magstrip	e No FC with	7-20		-
Format Number:		Facility Coo	de:	0	
Card ID Offset:	0	Card Forma	at:	MAG	-
Card Flags:	0				
Digit Quantity:	Min:	7	Max:		20
Facility Code:	Qty:	0	Start		0
Cardholder ID:	Qty:	5	Start	: [0
Issue Code:	Qty:	0	Start		0
🖤 <u>E</u> dit		New	5	<u> 8</u>	ave
		Pamana		0	`anaal

Card Formats Dialog

Insertion: Wiegand Format

The Insertion: Wiegand format consists of 5-digit Facility Code, 6-digit Cardholder ID, and a 2-digit Issue Code.

Digit Quantity	Min : 12	Max : 12
Card Format Field	Quantity	Starting Digit
Facility Code	5	0
Cardholder ID	6	5
Issue Code	1	11

Card Formats D	ialog			×
Description:	Insertion:	Wiegand Fo	ormat	-
Format Number:		Facility Cod	le: 0	
Card ID Offset:	0	Card Forma	t: MAG	G 🔹
Card Flags:	0			
Digit Quantity:	Min:	12	Max:	12
Facility Code:	Qty:	5	Start:	0
Cardholder ID:	Qty:	6	Start:	5
Issue Code:	Qty:	1	Start:	11
≇ <u>E</u> dit		ew	Ø	<u>S</u> ave
Copy	(X B	emove	8	<u>C</u> ancel

Magstripe: 4 Digit FC with 11-20

The Magstripe: 4 digit FC with 11-20 consists of a 4 digit Facility Code, 9-digit Cardholder ID, and a 2-digit Issue code.

Digit Quantity	Min : 11	Max : 20
Card Format Field	Quantity	Starting Digit
Facility Code	4	5
Cardholder ID	9	0
Issue Code	2	9

Card Formats D	ialog					×
Description:	Magstripe	4 Digit FC	with 1	1-20)	•
Format Number:		Facility Cod	e:	0		
Card ID Offset:	0	Card Format	t:	MAG	;	-
Card Flags:	0					
Digit Quantity:	Min:	11	Max:		20	
Facility Code:	Qty:	4	Start	:	5	
Cardholder ID:	Qty:	9	Start		0	
Issue Code:	Qty:	2	Start		9	
🛊 Edit	N	ew	5	B.	Save	
Copy	X B	emove		3	<u>C</u> ancel	

х

pivCLASS Card (Non-Compliant)

This card format is used for sites with pivCLASS magstripe cards that are non FIPS complaint. This format consists of a 8-digit Facility Code and an 11-digit Cardholder ID.

Digit Quantity	Min : 0	Max : 200
Card Format Field	Quantity	Starting Digit
Facility Code	8	0
Cardholder ID	11	15
Issue Code	0	0

🍘 Card Formats D	ialog				Х	
Description:	pivCLASS	pivCLASS (MAG1)				
Format Number:		Facility Cod	e:	-1		
Card ID Offset:	0	Card Forma	t: [MAG	;	
Card Flags:	0					
Digit Quantity:	Min:	0	Max:		200	
Facility Code:	Qty:	8	Start:		0	
Cardholder ID:	Qty:	11	Start:		15	
Issue Code:	Qty:	0	Start:		0	
Set As Default Fo	or New Contro	llers				
🖤 <u>E</u> dit	<u>N</u> ew			<u>S</u> av	e	
Copy		ove	0	<u>C</u> an	icel	

This Page Intentionally Left Blank

Additional Formatting



In This Section:

- Corporate Mode
- Multiple Facilty Code Card Format
- FIPS/pivCLASS

Additional Card Formatting

DNA Fusion includes additional card formatting modes; Corporate Mode and Multiple Facility Code. Corporate Mode allows the system to have multiple facility codes under one card format (per bit structure). Multiple Facility Code Card formats allow one or more card facility codes and card numbers to convert to a unique number.

Corporate Mode Card Format

The Corporate Mode uses the Facility Code and Card Number along with a defined offset number to create a unique credential number. The Corporate Mode option allows the system to have as many facility codes as needed with only one card format (per bit structure).

When you set up a card format for the Corporate Mode ensure that the Card ID Offset matches the multiplier set up in the Personnel Properties.

1. Click the DNA Properties button on the Standard Toolbar and select Personnel Properties from the dialog menu. The Host Settings / Personnel Properties dialog appears.

- Station Settings	Personnel Properties
- DNA Properties	Operation
- Edit Operators	Default Card Quantity: 1 Default Picture Quantity: 4 💌
- Operator Profiles - E-Mail Enable	Default Personnel Type: NORMAL Default Enrollment Method: Not Set
	Allow Pre-Selected Field Prompts
Hardware Tree Behavior	Use PCProx Auto Enrollment: Open All cards Upon Repeatable Query
	Use Long Tenant Name Format in Browser
	Force Facility Code Usage Rename Cropped Photos
	New Cards
	Default Activation Period: 1 year * Type: Normal *
	Default Mode: Corporate Mode - FC #: 0 Multiplier: 100000
	Allow Duplicate Cards
	Allow Duplicate PINs
< >	Card number created externally
	Increment Issue code on new cards
	Deactivate card Delink Hotstamp with Keycard Number
A OK	Custom Fields
X Cancel	E Setup Custom Fields
	Drivers License Scanner Fields
Help	✓ First Name ✓ Address Information
	Last Name Drivers License Number
	☑ Middle Name

2. In the New Cards sections, **select** the Corporate Mode from the Default Mode drop-down. The FC # and Multiplier fields appear.

Once the Default Mode is set to Corporate Mode, the workstation's new cards will populate with the configured Facility Code and will use the Multiplier to create a unique Credential.

- 3. **Enter** the Facility code and, if needed, **change** the Multiplier (defaults to 100,000) for the system. The Multiplier determines the digits needed to calculate the card number.
- 4. **Click** OK to save the settings.
- 5. **Create** a card format for the desired bit structure.

See page 3-2 for more information on creating a card format.

- Verify that the Card ID Offset matches the Multiplier set in step 1.
- Set the Card Flags value and click the Save button.
 6 = Ignores the Facility Code. Will work for all facility code formats (Recommended).

4 = Requires a Card Format per facility code; useful in some situations.



6. From the Controller Properties / Cards and Dual Comm dialog, **select** the new Card Format from the drop-down list and **click** OK.

To open the Cards and Dual Comm dialog.

When a new card is added to the Cardholder's Record, the Mode field in the Card Tab will default to Corporate Mode.

着 Employee Info	+ Employee Info (Page 2)	🖪 ID Badging	NEW Card
Mode:	Corporate Mode 💌		
Facility Code:	75		
Card:	5000		
Credential:	7505000]	

Multiple Facility Code Card Formats

Although there is a maximum of sixteen (16) card formats for each controller, the Multiple Facility Code option can be used to convert one or more of the card facility codes to a unique number.

1. Click the DNA Properties button in the Standard Toolbar and select Personnel Properties from the dialog menu.

The Host Settings / Personnel Properties dialog appears.

Host Settings		×
- Station Settings	Personnel Properties	
Citation Manager	Operation	
- Edit Operators	Default Card Guantty: 1	Default Picture Quantity: 4
Operator Profiles	Allow Pre-Selected Field Prompts	Auto refresh Badge image
Watchbar Settings	Use PCProx Auto Enrollment:	Open All cards Upon Repeatable Quary
Personnel Properties	Use Long Tenant Name Format in Browser	Aways prompt for groups even if there is no card
Hardware Tree Behavior	V Force Facility Code Usage	Rename Cropped Photos
	New Cards	
	Default Activation Period: 1 year	
	Default Mode: Multi - 26 bit o - Fo	C #: 0
	Allow Duplicate Cards	Enforce Employee ID Uniqueness
	Allow Duplicate PINe	Enforce Employee No. Uniquenese
	Card number created externally	Copy active card information to new card
	Increment Issue code on new cards	Deactivate existing cards on new card
< >	Deactivate card	Delink Hotstamp with Keycard Number
	Custom Fields	
V Ok	Custom Fields Quantity: 3	Setup Custom Fields
Cancel	Drivers License Scanner Fields	
	First Name	Address Information
Help	V Last Name	Drivers License Number
	V Middle Name	

2. Select the desired Multi - XX Bit Card option from the Default Mode drop-down.

The FC # field appears.

If the Default Mode is set to Multi, the workstation's new cards will populate with the configured Facility Code and will use it along with the Card Number to create a unique Credential.

- 3. Enter the Facility Code and click OK to save the settings.
- 4. **Create** a Card Format for the desired bit structure.

See page 3-2 for information on how to create a card format.

- 5. Click the Save button to save the configuration.
- 6. **Click** Close to close the dialog.
- 7. In the Controller Properties / Cards and Dual Comm dialog, **select** the new Card Format from the dropdown list and **click** OK.
- 8. Add a new cardholder.

When a new card is added to the Cardholder's record, the Mode field in the Card Tab will default to the Multi - XX Bit Card mode set in the Personnel Properties dialog. For information on Personnel Properties see the DNA Fusion User Manual.

🌡 Employee Info	+ Employee Info (Page 2)	D Badging	NEW Card
Mode:	Multi - 26 bit card 💌		
Facility Code:	0]	
Card:	1		
Credential:	1		



FASCN Card Format

Using FIPS/pivCLASS card (Non-compliant)

An HID pivCLASS card can be added to DNA Fusion by creating a card format. Creating the card format does **NOT** make the site FIPS complaint.

To add the pivCLASS card format:

- 1. **Right-click** on the Hardware browser.
- 2. Select Card Formats.
- 3. Enter the desired values in the fields:

pivCLASS Magstripe

PIV-1 Card Format

@ Card Formats Dialog					:	Card Formats Dialog			<	Card Formats Dialog						
Description: Format Number: Card ID Offset:	pivCLASS 0	(Magstripe Facility Coo Card Forma) le: 0 at: MA	G		Description: Format Number: Card ID Offset:	PIV-1 C	ard Format Facility Coo Card Forma	le: -1 at: Wie	egand 💌]	Description: Format Number: Card ID Offset:	FASCN Ca 1013 0	ard Format Facility Cod Card Forma	e: 0 t: Wie	egand 💌
Card Flags: Digit Quantity: Facility Code: Cardholder ID: Issue Code:	0 Min: Qty: Qty: Qty:	0 0 21 0	Max: Start: Start: Start:	75 0 10 0		Card Flags: Bits Quantity: Facility Code: Cardholder ID: Issue Code: Even Parity Bits: Odd Parity Bits:	512 Bits: Qty: Qty: Qty: Qty: Qty:	128 0 128 0 0 0	Start: Start: Start: Start: Start: Start:	0 0 0 0		Card Flags: Bits Quantity: Facility Code: Cardholder ID: Issue Code: Even Parity Bits: Odd Parity Bits:	512 Bits: Qty: Qty: Qty: Qty: Qty:	200 0 200 0 0 0	Start: Start: Start: Start: Start: Start:	0 0 0 0
Set As Default For New Controllers Edit Copy Remove Cancel Cancel Cancel Cancel Cancel Cancel]	Set As Default f	For New Contr	ollers /	S a S a S	ave		Set As Default F	For New Contr	ollers /	Sa Ca	we	

- 4. Click Save.
- 5. Right-click on the desired SSP.
- 6. Click on Properties.
- 7. Click on Cards and Dual Comms.
- 8. Click on any available Card Format slots and select the desired pivCLASS (ex: CAC) card.

Note: For the site to be FIPS compliant, the site must adhere to the current GSA list. The current listing can be found here: <u>https://www.idmanagement.gov/10075-pacs-infrastructure-for open-options-dna-fusion/</u>.

FIPS/pivCLASS Compliance

Additional configuration involving the pivCLASS Authentication Module (PAM) is required before the site is FIPS compliant. Once the site is FIPS compliant (through HID Global) and the PAM is configured, add the FIPS settings to FlexAPI.

In FlexAPI:

1. Select the plus icon to add the Client Application Information for the FIPS API.



- 2. In the Flex API Client, enter a Name.
- 3. If needed, add a Description.
- 4. Add the FIPS API Key.
- 5. **Ensure** that the ALLOW ACCESS box is marked.

Flex API Client
Client Application Information
NAME Enter a name that will uniquely identify the API Client. This name will be stored in all audit entries.
FIPS API
DESCRIPTION Any extra information that could be important to remember about this client.
API KEY Flex requires an API key for third party applications to access it's services.
O12b66b8-ae94-4845-8t43-9256d63ae456 ✓ ALLOW ACCESS Application can be denied access without having to remove the API key.
Save Changes Cancel

- 6. Click Save Changes.
- 7. **Select** the Binding tab.

settings	about		
 API Access Bindings Certificates Devices DNA Fusion 	client api operator profiles Grant or deny access to the Flex API. FIPS API 012b66b8-ae94-4845-8f43-9256d63ae456	\odot	Filter permissions

- 8. **Ensure** that the correct listening ports are defined.
- 9. **Check** the Serve Web Application box.



Open Options

- 10. Click on the Certificates tab.
- 11. **Ensure** that the PACSService certificate is configured.

To add the certificate, **click** on the plus icon.

settings	about					
API Access Bindings	Server Ce Use this featu	ertificates	certificates th	at the Flex API can use	with bindings configured for SSL	
► Certificates	NAME	ISSUED TO	ISSUED BY	EXPIRATION DATE	CERTIFICATE HASH	\oplus
Devices	PACSService	PACSService	PACSService	10/1/2049 11:52:37 PM	C25D0850BEF9089C6A27A00404DBDD430EB179F4	
DNA Fusion	Flex API	oo-piv-wx	oo-piv-wx	10/9/2029 7:00:00 PM	432584F99652B7807F422D75EBFA3630DE983753	()
						\bigcirc

12. Select the About tab.

ab ab	out				
About	License Informa	tion	System Inform	nation	
ervices	Licensed To	Support FIPS Test Station	Host Name	oo-piv-wx	
lost used methods	License Type	Demo			
	License ID	DLR-00067			
lost active clients	System ID	DF833230-4F31-4C79-8408-379723810437			
	Online license upda	ites are enabled.			
	Licensed For		IP Addresses		
	ADSupe	True	IPv6	fe80::30b2:8792:3962:3b25%6	
	Badoino	5	IPv4	10.0.231.114	
	Clients				
	Drivers	6			
	DVROcularis	1			
	DVRSalient	1			
	DVRVideoInsight	1			
	Flex	True			
	IntoPivClass	True			
	FlexMobile	5			
	PIV	5			
	Stentofon	1			
	SubControllers	10			
	WebUsers	4			
	Demo Informat	ion			
	Expires	12/16/2025			
	Last Checked	06/23/2020			
	Offine Duration	14			

13. **Ensure** that the correct licenses are enabled.



16650 Westgrove Dr | Suite 150 Addison, TX 75001 Phone: (972) 818-7001 Publish Date | May 3, 2021 DNA Fusion Version | 7.9 or Greater Manual Number | CFM 2.1 www.ooaccess.com