SMS Technical Bulletin

- VERSION: 6.4.0 and Newer
- TOPIC: Electronic License
- **ISSUE:** Installation Procedures

Introduction

SMS v6.4 Introduces a new electronic license format and licensing process. The v6.4 Licenses are incompatible with previous electronic licenses.

SMS v5.3.9 and earlier used a physical USB Key in order to enable specific SMS options on any given computer. In order for the computer to run SMS the USB Key had to be physically inserted in that computer. The process described in this document allows for similar SMS functionality without the physical USB Key, which is no longer supported as of SMS v6.1.0.

NOTE: SMS version 6.0.0 or above requires the use of an Electronic License Key. SMS v6.1.0 introduced a new internal format for the Electronic License Key to enforce Device Licensing.

SMS v6.3 and newer require that the SMS Electronic License Key version matches the SMS version.

Effective with v6.4, a new one-time use 5-day "Installation License" with unlimited SMS features will be provided on installation or upgrade to SMS v6.4 or newer.

Overview

The new SMS Electronic License is a data structure stored in an encrypted file (SMS.lic) located in the SMS BIN folder on the System Processor (SP) host computer. The single license file now also stores the "fingerprint" of the SP host computer which is verified each time the SP reads the license to prevent a license from being moved to a different computer.

The SMS SP will create the "Installation License" the first time the SP is started after a new v6.4 installation or upgrade to v6.4. The SP will collect specific hardware parameters from the SP host computer and store this "fingerprint" into the SMS.lic file to bind the license file to the SP host hardware. The "Installation License" is non-transferrable, and will expire 5-days after created. All SMS parameters (Clients, Online and Offline Devices, etc.) will be unlimited for the 5-day period.

The license is compatible with VMware and Hyper-V virtual environments.

In order to create an Electronic License Key:

- 1 Install or upgrade to SMS v6.4.
- 2 Reboot as instructed or start the System Processor service.
- 3 A one-time use 5-day "Installation License" will be created.
- 4 The SP host computer "fingerprint" will be stored in the SMS.lic file.



Obtaining the Software Key

- 1 It is no longer necessary to manually create a Locking Code. The SP host computer "fingerprint" is automatically generated on initial SP Service startup and will be stored in the SMS license file (SMS.lic).
- 2 Create a Device Inventory Report:

If Upgrading to SMS v6.4, the Device Inventory Report must be run prior to upgrading.

Navigate to the \Utilities\ElectronicLicenseUtility\ folder on the SMS v6.4 distribution media.

- a) Copy the DeviceInventoryTool.exe file to the SP host computer.
- b) Double-click on the DeviceInventoryTool.exe icon to run the Device Inventory Tool

🕅 Device Invento	ry Tool [Version 6.4.0]							
File								
Please provide To save your i	the following inform	nation. When complete, cli k the "Report (Save)" butt	ick the "Retri on below.	ieve Inventory" button.			Report Date: 20	017/03/27
Dealer Name:	Vanderbilt Industries			Database Name: [10.10.83.]	1\SMS			
Client Name:	Engineering		S	system Processor: H1WINDO	0WS10			
Client Location:	Parsippany, NJ				Fetrieve Inventory			
System Inform	mation:							
Max. Client Co SMS Vers	unt: 16 Max.Gu ion: 6.4.0 SMS.Lic	uest Pass Count: 15 Max. cense Version: 6.4.0 SMS	Online Device (Level: Enterpri	Count: 13 Max. Offline ise SMS API Er	Device Count: 12 Ma nabled: Yes	x. Video Camera Cou Customer I	int: 14 ID: 1	
<u>A</u> uto Size								
		Device			Subject	Online	Off Subject To	ine Bequires
Device ID	Device	Installed	Description	Device Type	Unlin Licen	e Online se License	Offline License	Offline License
			۲	No data to display>				
3rd Party Devi	ce Summary							
Total Possible O	nline Total Installed	I Online Total Possible Off (No data to display>	ine Total Ins	stalled Offline				
						Report (S	iave) 👻	🛛 <u>C</u> lose

- c) The existing SMS database and System Processor hosts should be populated. Please enter or select the appropriate host systems if not.
- d) Enter the Dealer Name, Client Name and Client Location.
- e) Click the "Retrieve Inventory" button to generate a report listing all currently defined devices in the system. Details of each device will be indicated including if the device is "installed".
- f) A summary beneath the device detail grid will indicate the total online and offline (local decision) devices in the system indicating which are "installed". Device Licenses are only required for "installed" devices.

Please pr To save y	ovide the following information. When complete, c our inventory report, click the "Report (Save)" but	lick the "Re ton below.	trieve Inventory"	outton.			Report Date	: 2017/03/3
Dealer Name: Vanderbilt Industries			Database Name: 10.10.83.1\SMS					
Client Name: Engineering			System Processor: H1WINDOWS10					
Client Location: Parsippany, NJ			G Betrieve Inventory					
Sustem	nformation:			/ _				
Max. Clie	nt Count: 16 Max. Guest Pass Count: 15 Max	. Online Devic	e Count: 13 M	x. Offline Device Count:	12 Max.	Video Camera (Count: 14	
Chi	Version CAO SNO Lisener Version CAO SNO	Laurah Futar				Custom		
SMS	Version: 6.4.0 SMS License Version: 6.4.0 SMS	Level: Enter	iprise 54	15 API Enabled: Tes		Luston	ieriu: I	
Auto Cine								
Mulo 3126							ina	
	Device			Subject To Bequires		Subject To	Bequire	
			▽		Online	Online	Offline	Offline
evice ID [Device	Installed	Description	Device Type	License	License	License	License
69 💟	/ireless APM		WRI on Wireless	Reader				
	freless APM		Wireless Beader	Header	. /			
1840 V								<u> </u>
1840 V 1066 IF	P Enabled Lock		WIFI SN IT 309E4	IP Lock (R3 Protocol)				
1840 V 1066 IF 1065 IF	P Enabled Lock P Enabled Lock		WIFI SN IT309E4 WIFI SN IT243D	IP Lock (R3 Protocol) IP Lock (R3 Protocol)				
1840 V 1066 IF 1065 IF 252 V	P Enabled Lock P Enabled Lock RCNX-R2 (Retro board with two VIDNX-8 boards mounted)		WIFI SN IT309E4 WIFI SN IT243D VSRCNX-R2 - N	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller				
1840 V 1066 IF 1065 IF 252 V 135 V	Prabled Lock P Enabled Lock RENX-R2 (Retro board with two VIDNX-8 boards mounted) RENX-N3 (Retro Board; VI-16IN + VI-160)		WIFI SN IT309E4 WIFI SN IT243D VSRCNX-R2 - N VSRCNX-M3 testi	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller				
1840 V 1066 IF 1065 IF 252 V 135 V 169 V	Enabled Lock E nabled Lock PE nabled Lock RDN-KR2 (Retro board with two VIDNX-8 boards mounted) RDN-KK3 (Retro Board; VI-16IN + VI-160) RDN-KK3 (Retro Board; VI-16IN + VI-160)		WIFI SN IT 309E4 WIFI SN IT 243D VSRCNX-R2 - N VSRCNX-M3 testi VSRCNX-M3 10	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller				
1840 V 1066 IF 252 V 135 V 169 V 118 V	Prabled Lock Enabled Lock Enabled Lock RON-R42 [Retro board with two VIDNX-8 boards mounted] RON-M3 [Retro Board; VI-16IN + VI-160) RON-M3 [Retro Board; VI-16IN + VI-160) SRC-M Dual Reader Controller		WIFI SN IT 309E4 WIFI SN IT 243D VSRCNX-R2 - N VSRCNX-M3 testi VSRCNX-M3 10 VSRCNX-M Dual	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller				
1840 V 1066 IF 252 V 135 V 169 V 118 V 109 V	Enabled Lock E nabled Lock P nabled Lock RDNX-F2 (Retro board with two VIONX-8 boards mounted) RDNX-M3 (Retro Board; VI-16IN + VI-160) RDNX-M3 (Retro Board; VI-16IN + VI-160) SRCM Dual Reader Controller SRC Single Door Controller		WIFI SN IT309E4 WIFI SN IT243D VSRCNX-R2 - N VSRCNX-M3 testi VSRCNX-M3 10 VSRCNX-M Dual VSRC Single Doo	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller				
1840 V 1066 IF 1065 IF 252 V 135 V 169 V 118 V 109 V 1144 V	Constant of the second se		WIFI SN IT 309E4 WIFI SN IT 243D VSRCNX-R2 - N VSRCNX-M3 testi VSRCNX-M3 10 VSRCNX-M Dual VSRC Single Doo VSRC Single Doo VSRC 0 on EP1502	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller				
1840 V 1066 IF 1065 IF 252 V 135 V 169 V 118 V 109 V 1144 V 1143 V	C Fabiled Lock Fabiled Lock Fabiled Lock Fabiled Lock RDIX-R2 [Retro board with two VIDIX-8 boards mounted] RDIX-M3 [Retro Board; VI-16IN + VI-160) RCIX-M3 [Retro Board; VI-16IN + VI-160) SRC-M Dual Reader Controller SRC Single Door Controller 1-160 1-160 1-160 1-160		WIFI SN IT 309E4 WIFI SN IT 309E4 VSRCNX-R2 - N VSRCNX-M3 testi VSRCNX-M3 10 VSRCNX-M Dual VSRC Single Doo VRI-0 on EP1502 VRI-10 on EP1502 VRI-11 N on EP1502	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Controller				
1840 V 1066 IF 1065 IF 252 V 135 V 169 V 118 V 109 V 1184 V 109 V 1144 V 1143 V 1143 V	Enabled Lock E		WIFI SN IT 309E4 WIFI SN IT 309E4 VSRCNX-R2 - N VSRCNX-M3 test VSRCNX-M3 to VSRCNX-M3 to VSRCSIngle Doo VRI-0 on EP1502 VRI-10 on EP1502 VRI-2 Testing VRI-2 Testing	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Controller Controller Reader				
1840 V 1066 If 1065 If 252 V 135 V 169 V 118 V 109 V 1144 V 1143 V 1207 V 1144 V	Enabled Lock E nabled Lock PE nabled Lock RDN-R3 (Retro board with two VIDNX-8 boards mounted) RDN-M3 (Retro Board; VI-16IN + VI-16D) RCN-M43 (Retro Board; VI-16IN + VI-16D) SRC-M Dual Reader Controller SRC Single Door Controller 1-160 R1-2 R1-2 R1-2 R1-2 R1-2		WIFI SN IT 309E4 WIFI SN IT 309E4 VSRCNX-R2 - N VSRCNX-M3 10 VSRCNX-M3 10 VSRCNX-M Dual VSRCNX-M Dual VSRCNX-M Dual VSRCNX-M Dual VRI-0 on EP150 VRI-2 Testing VRI-2 Test	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Controller Reader Reader				
1840 V 1066 IF 252 V 135 V 169 V 118 V 109 V 1144 V 1143 V 1207 V 1212 V 1148 V	Constant of the second se		WIFI SN 11305E 4 WIFI SN 11305E 4 VSRCNX-R12 - N VSRCNX-R3 10 VSRCNX-M3 10 VSRCNX-M 104 VSRCNX-M 104 VSRC	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Reader Reader Reader				
1840 V 1066 If 1065 If 252 V 135 V 135 V 169 V 118 V 109 V 1184 V 1144 V 1143 V 1207 V 1212 V 1148 V 1215 V	Enabled Lock Enabled Lock Enabled Lock RDNS-R2 [Retro Board with two VIONS-S boards mounted] RCNS-M3 [Retro Board; VI-16IN + VI-160] RCNS-M3 [Retro Board; VI-16IN + VI-160] SRCE Single Door Controller SRC Single Door Controller I-16IN R1-2 R1-2 R1-2 R1-2		WIFI SN 117305E4 WIFI SN 117305E4 VSRCNX-M3 Lesti VSRCNX-M3 Lesti VSRCNX-M3 Lesti VSRCNX-M104 VSRC Single Too VRI-0 on EP1502 VRI-0 Testi VRI-2 Testing VRI-2 Testing VRI-2 Testing VRI-2 Reader 1 0	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Controller Reader Reader Reader Reader				
1840 v 1066 if 1065 jf 252 v 135 v 169 v 118 v 109 v 118 v 109 v 114 v 1143 v 1207 v 1212 v 1148 v 1207 v 1212 v 148 v	Constant of the second se		VIFI SN 17309E4 VIFI SN 173430- VSRCNX-R2 - N VSRCNX-M3 testi VSRCNX-M3 testi VSRCSNM3 tosti VSRC Single Doc VRI-0 on EP1502 VRI-17 testing VRI-2 Testing VRI-2 Testing VRI-2 Reader 2 o VRI-2 Reader 1 o	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Controller Reader Reader Reader Reader Reader				
1840 v 1066 if 1065 if 2252 v 135 v 169 v 118 v 109 v 118 v 1184 v 1207 v 1212 v 144 v 1207 v 0 221 v 144 v 1207 v 0 221 v 135 v 121 v 145 v 122 v 135 v 122 v 135 v 1	Sealed Lock E nabled Lock 2 Enabled Lock RDM-R2 (Retro board with two VID/0X-8 boards mounted) RDM-R3 (Retro Board; VI-16IN + VI-160) SRC-M Dual Reader Controller SRC Single Door Controller SRC Single Door Controller I-160N R1-2 R		WIFI SN IT309E4 WIFI SN IT3430 VSRCNX-M3 10 VSRCNX-M3 10 VSRCNX-M3 10 VSRC Single Doc VRI-D on EP1502. VRI-12 net 19502. VRI-2 Testing VRI-2 Testing VRI-2 Testing VRI-2 Testing VRI-2 Reader 1 c Reader 1 c	IP Lock (R3 Protocol) IP Lock (R3 Protocol) Controller Controller Controller Controller Controller Controller Controller Reader Reader Reader Reader Reader				

g) Click the "Report (Save)" button. This button also allows you to print a copy for your records if desired.

Save in:	My Documents 🔹	+ 🗈 📸 🎫		
(Ha	Name	Size	Туре	
My Recent Do	Jan SMS	5/27/2014 7:15 AM	File fo	
	🍌 SMS Express	12/19/2012 7:26 AM	File f	
	🎉 SQL Info-Utilities	12/19/2012 7:26 AM	File f	
Desktop	SQL Server Management Studio	6/19/2014 7:44 AM	File f	
	🕌 Training	1/7/2014 10:54 AM	File f	
6 mm	Virtual Machines	7/25/2013 11:43 AM	File f	
My Documents	Visual Studio 2005	2/28/2013 7:39 AM	File f	
	Visual Studio 2008	9/20/2013 9:16 AM	File f	
	Visual Studio 2010	3/11/2014 9:53 AM	File f	
My Computer	Visual Studio 2012	2/21/2014 3:21 PM	File fo File fo	
	WindowsPowerShell	10/31/2013 12:15		
My Network Pl	VNJ-471801.vbi	6/19/2014 9:47 AM	VBI F	
	•		,	
	File name: VNJ-471801.vbl	•	Save	
	Save as time: Vendetrik ledustries Device levents		Cance	

- h) Provide a name for the file and note the saved location. The saved file extension will be ".vbi".
- i) Close the Device Inventory Tool.
- 3 Send a copy of the SMS.lic file from the BIN folder on the SP host computer and the Device Inventory Report to SMS Electronic License Processing at <u>SMSELicense@VanderbiltIndustries.com</u>. In order to expedite the SMS Electronic License process, include either the Vanderbilt Sales Order Number or your PO Number and the End User Name with the files.
- 4 A replacement SMS.lic License File matching the original file "fingerprint" and enabling the specified SMS features and installed 3rd party devices will be prepared and sent back for installation. *The license will not be transferable to another computer*.

The License will be bound to certain unique hardware properties of the SP host system. Changes to NIC or hard drive properties may render the license invalid, requiring a replacement license.

Installing the License File

Once you receive the License File (SMS.lic) from SMS Electronic License Processing, it must be installed. Follow the instructions below to install the License File.

Vanderbilt may rename the license file for ease of license file management.

The license file **MUST BE RENAMED to "SMS.lic"** or SMS will Not read the license.

- 1 Access the SMS SP host computer
- 2 Copy the provided SMS.lic file to the SMS BIN folder, overwriting the 5-day "Installation License" file.
- 3 Restart the SP Service in order to force SMS to use the update license immediately. Otherwise, the updated license should take affect within 15-minutes.
- 4 Verify the License changes using the SMS View SP Status application.

Updating an Existing License

If additional SMS clients, Guest Pass Locations, 3rd party online devices, offline devices, V-VMS Cameras, SMS API functionality or an SMS upgrade are required after the initial Electronic License installation, the license must be updated. Additionally, if the hardware component "fingerprint" of the SP host changes, a new license will be required.

In order to update an existing SMS Electronic License, provide a copy of the current license file (SMS.lic) from the SP host to SMS Electronic Licensing along with purchase information for the requested changes. A new License File (SMS.lic) with the updated options will be generated by SMS Electronic License Processing and can be installed as described above.

License changes can be verified using the SMS View SP Status application.