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Release Notes: Network Shutdown Module (NSM)
Software Release: NSM 3.07.02 (Windows) - May 2014
=====English=====

New Features:

- Updated Apache 2.4.6 to 2.4.9
- Updated OpenSSL 1.0.1e to 1.0.1g
- Address CVE-2014-0160 (Heartbleed)
- Address CVE-2011-3389 (BEAST Attack)
- Reconfigure HTTPS for Forward Secrecy

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CVE-2014-0160 (Heartbleed)
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OpenSSL 1.0.1 and 1.0.2-beta contain a vulnerability that could disclose sensitive private information to an attacker. This vulnerability is commonly referred to as "The Heartbleed Bug".

OpenSSL versions 1.0.1 - 1.0.1f and 1.0.2-beta - 1.0.2-beta1 contain a flaw in its implementation of the TLS/DTLS heartbeat functionality. This flaw allows an attacker to retrieve private memory of an application that uses the vulnerable OpenSSL library in chunks of up to 64k at a time. Note that an attacker can repeatedly leverage this vulnerability to increase the chances that a leaked chunk contains the intended secrets. The sensitive information that may be retrieved using this vulnerability include:

- Primary Key Material (private/secret encryption keys)
- Secondary Key Material (user names, passwords, session identifiers etc.)
- Protected Content (sensitive data used by vulnerable services)
- Collateral (memory addresses and content that can be leveraged to bypass exploit mitigations)

Please see the Heartbleed website for more details. Exploit code for this vulnerability is publicly available.
<http://heartbleed.com/>

Network Shutdown Module 3.07.01 uses a vulnerable version of OpenSSL (1.0.1e). Versions of Network Shutdown Module prior to 3.07.01 are not vulnerable to this issue. This release updates OpenSSL to version 1.0.1g, in which the vulnerability has been addressed.

To recover potentially compromised systems, we recommend that you ...
... upgrade all Network Shutdown Module servers to the latest version.
... revoke any certificates used to protect Network Shutdown Module servers.
... redistribute new certificates to Network Shutdown Module servers.
... require all Network Shutdown Module users to change their passwords.

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CVE-2011-3389 (BEAST Attack)
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The SSL protocol, as used in certain configurations in Microsoft Internet Explorer, Mozilla Firefox, Google Chrome, Opera and Network Shutdown Module, encrypts data by using cipher block chaining (CBC) mode with chained initialisation vectors, which allows man-in-the-middle attackers to obtain plaintext HTTP headers via a blockwise chosen-boundary attack (BCBA) on an HTTPS session, in conjunction with JavaScript code that uses the HTML5 Websocket API, the Java URLConnection API, or the Silverlight WebClient API.

This has been addressed in Network Shutdown Module 3.07.02 by reconfiguring OpenSSL to deny the negotiation of TLSv1/CBC based ciphers.

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Forward Secrecy
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Every SSL (HTTPS) connection begins with a handshake, during which the two parties (browser and Network Shutdown Module Web Server) communicate their capabilities to the other side, perform authentication, and agree their session keys. The session keys are then used to encrypt the rest of the conversation (session), possibly spanning multiple connections. They are deleted afterwards. The goal of key exchange phase is to enable the two parties to negotiate the keys securely; in other words, to prevent anyone else from learning these keys.

Several key exchange mechanisms exist, but at the moment, by far the most commonly used one is based on RSA, where the server's private key is used to protect the session keys. This is an efficient key exchange approach, but it has an important side-effect: anyone with access to a copy of the server's private key can uncover the session keys and decrypt the conversation.

An alternative to the RSA-based key exchange is to use the ephemeral Diffie-Hellman algorithm, which is slower, but generates session keys in such a way that only the two parties involved in the communication can obtain them. No one else can, even if they have access to the server's private key. After the session is complete, and both parties destroy the session keys, the only way to decrypt the communication is to break the session keys themselves. This protocol feature is known as forward secrecy.

Breaking session keys is clearly more difficult than obtaining the server's private key. Furthermore, in order to decrypt all communication, now you can no longer obtain just one key (the server's) but you have to compromise the session keys belonging to every individual conversation.

OpenSSL supports forward secrecy using two algorithms, the standard Diffie-Hellman (DHE) and an adapted version of Diffie-Hellman for use with Elliptic Curve cryptography (ECDHE). Network Shutdown Module 3.07.02 reconfigures OpenSSL to prefer these ciphers where the connecting browser supports them.

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Release Notes: Network Shutdown Module (NSM)
Software Release: NSM 3.07.01 (Windows) - December 2013
=====English=====

New Features:

- Updated PHP 5.2.8 to 5.4.10
- Updated Apache 2.0.63 to 2.4.6
- Updated OpenSSL 0.9.8i to 1.0.1e
- Updated SQLite 2.8.6 to 3.7.15.2 including data migration on upgrade.
- Numerous security vulnerabilities identified and addressed.
- Numerous installer issues identified and addressed.
- Addition of Shutdown scripts for VMware ESXi hosts and guests. See project documentation for guidance on graceful shutdown of ESXi hosts.

Known Limitations:

A default user with administration privileges is created at install time and documented in the user guide. Since this user is widely known, it is recommended that this user be removed and replaced with another, keeping the user name and password private, to increase security.

Chinese language removed as an installer option, as installer had not been translated. Chinese language pack is still installed and available as a

language at the User Interface.

Downgrade from 3.07 to earlier versions is not supported, and attempting to do so may result in data loss and/or difficulty in applying future upgrades.

Firefox and Internet Explorer may be used to view the Network Shutdown Module user interface.

Google Chrome browser is not supported for viewing the User Interface.

IE ESC (Internet Explorer Enhanced Security Configuration) on Windows Server 2003 or greater is enabled by default. As a result, some Web sites may not display or perform as expected. If you want Network Shutdown Module to be fully functional, you should add the Network Shutdown Module website to the Local Intranet sites zone or to the Trusted sites zone in Internet Explorer. More information is available here: <http://support.microsoft.com/kb/815141>

Network Shutdown Module does not support Internet Explorer Metro Style. On Windows 2012 and all other Operating Systems where Internet Explorer 11 is the default browser, clicking on the start menu launcher icon for Network Shutdown Module will present a warning. To avoid this follow this procedure:

- Open Internet Options.
- Select the Programs tab.
- Under Opening Internet Explorer, Choose how you open links, select "Always in Internet Explorer on the Desktop".
- Apply the change.

On Windows 2008 Server Core and Windows 2012 Server Core, the graphical installer is unable to offer the ability to select a non-default installation path. The default path is %PROGRAMFILES%/SE/Network Shutdown Module/. Use of the silent installer is suggested as a workaround for this issue.

Network Shutdown Module installs a self-signed certificate to ensure encrypted communications over the HTTPS protocol. Some browsers may give warnings as they cannot automatically trust self-signed certificates. It is recommended that these certificates are replaced with trusted equivalents, using the procedure outlined below.

Chinese language is available for the user interface, but not supported for both the installer and launcher icons.

The System tray menu is displayed in English only.

All the event notifications are displayed in English only.

Log messages are available in English only.

The database used by Network Shutdown Module is placed in the Application Data folder on Windows. This location can vary depending on the OS version. As such we use the environment variables %AllUsersProfile% and %ProgramData% to locate this directory. At least one of these environment variables must be defined on your system. On systems where both are defined, %ProgramData% is preferred.

On Windows 2003 R2 SP2 the uninstall process may sometimes leave empty directories under the install path, (e.g. ..\SE\NetworkShutdownModule\packaging). These directories can be safely deleted after a system reboot.

Depending on your version of Windows, you will either have 'net send' (older) or 'msg' (newer) style messaging available. Network Shutdown Module has been updated to use the 'msg' style of messaging, as this has the widest support among newer Windows operating systems. If you are using an older version of Windows, then replace the 'msg' command with an equivalent 'net send' command under the 'Message Broadcast to the Administrator' or 'Message Broadcast to Users' configurations. You may need to enable the messaging service to allow this; see your operating system documentation for more details.

Broadcast messaging is not available on Windows 8.

On Windows 2003 the Browse For Folder dialog in the installer will allow you to select invalid locations such as 'My Computer', or Networked Computers and click OK. This can lead to some confusion. Network Shutdown Module can only be installed to valid local folders, and cannot be installed to the drive root, network, removable or read-only locations. Please ensure the path you select is the one you intend by reviewing the path in the Install Path installer dialog.

The NSM Supervision shortcut is not automatically installed to the Windows 8 start screen. This can be done manually by selecting the shortcut under 'All apps' and selecting 'Pin to Start'.

When specifying a command file as an action, or for shutdown, the command file is executed from the <install path>\SE\NetworkShutdownModule\www\ folder. Relative paths must be relative to this location. Absolute paths may also be specified. In both cases, if the path contains spaces in folder names, place quotes around the command file path so that Network Shutdown Module can interpret the command file location correctly.

An issue exists with Microsoft Internet Explorer when the 'Browse' button is used to select a command file as an event action. For example, selecting the shutdown.bat file will result in C:\fakepath\shutdown.bat being placed in the command line control, where no C:\fakepath\ directory exists. This is the result of a security setting within Internet Explorer. To disable this and allow the full path to be specified, open the Internet Options dialog from Internet Explorer. On the Security tab, click the 'Custom' button and scroll down to the "Include local directory path when uploading files to a server" option. Ensure that this is enabled and apply changes. Reopen the browser window to ensure that configuration changes are applied.

When a shutdown event is detected, NSM will warn the user that shutdown will commence once the Shutdown Timer has elapsed. NSM will only give one warning, and will not provide a count down timer to shutdown commencing.

A single UPS event can sometimes produce multiple notifications, broadcasts, e-mails or script invocations.

The Shutdown Timer value given in the user interface is the amount of time given between a UPS event occurring, and the shutdown action taking place. The OSSHUTDOWNDELAY given in the ESXi shutdown scripts is the amount of grace the operating system gives when an OS shutdown has been initiated. This grace period only begins once the ESXi shutdown script has started and shut down all attached ESXi VMs and hosts, and is going to shut down the NSM host. This is given in the following sequence:

```
UPS Event occurs
-> Wait Shutdown Timer seconds
    -> Start ESXi shutdown bat file
        -> ESXi hosts are shut down
```

- > NSM Host Shutdown begins
- > Wait OSSHUTDOWNDELAY seconds
- > NSM Host Power Off.

Attempting to access a protected Network Shutdown Module page before logging in, will result in a redirect to the login form, and the following being logged to the system log:

"User does not have sufficient privilege. Redirecting to login."

Network Shutdown Module 3.07 is not manageable by Enterprise Power Manager.

On Windows 2012 Standard R2, the system tray icon can occasionally stop presenting it's menu. If this occurs, we recommend launching the user interface using the start menu launcher icon or browsing to the following url: <https://localhost:4680/mgeups/login.php>

Alternatively you can restart the system tray process by running the following commands from the command line (as administrator):

```
<install path>\bin\netsystray\mgenetsystray.exe -stop
<install path>\bin\netsystray\mgenetsystray.exe -deferred
```

On supported Windows Operating Systems, the system tray process does not indicate when the Network Shutdown Module web server stops or becomes unavailable, once an initial connection has been established.

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How to configure your time zone.

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PHP 5.4.0 and later versions require the specification of the system time zone as part of php configuration (php.ini). Network Shutdown Module gives a default PHP time zone of UTC.

A difference in time zone between the host operating system, and PHP can lead to confusing timestamps to appear in the system log, and for delays in recovery from Lost Communications with the UPS.

We strongly recommend that PHP is configured to match your host operating system time zone.

By default, the host time zone is specified on line 919 of php.ini as:
date.timezone = UTC

Replace the UTC value with your local time zone identifier, such as:
date.timezone = Europe/Paris

A list of common time zones is presented here. For a full list of all supported time zones, please refer to <http://us3.php.net/manual/en/timezones.php>

Africa

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Africa/Abidjan	Africa/Accra	Africa/Addis_Ababa	Africa/Algiers
Africa/Asmara	Africa/Asmera	Africa/Bamako	Africa/Bangui
Africa/Banjul	Africa/Bissau	Africa/Blantyre	Africa/Brazzaville
Africa/Bujumbura	Africa/Cairo	Africa/Casablanca	Africa/Ceuta
Africa/Conakry	Africa/Dakar	Africa/Dar_es_Salaam	Africa/Djibouti
Africa/Douala	Africa/El_Aaiun	Africa/Freetown	Africa/Gaborone
Africa/Harare	Africa/Johannesburg	Africa/Juba	Africa/Kampala
Africa/Khartoum	Africa/Kigali	Africa/Kinshasa	Africa/Lagos
Africa/Libreville	Africa/Lome	Africa/Luanda	Africa/Lubumbashi

Africa/Lusaka	Africa/Malabo	Africa/Maputo	Africa/Maseru
Africa/Mbabane	Africa/Mogadishu	Africa/Monrovia	Africa/Nairobi
Africa/Ndjamena	Africa/Niamey	Africa/Nouakchott	Africa/Ouagadougou
Africa/Porto-Novo	Africa/Sao_Tome	Africa/Timbuktu	Africa/Tripoli
Africa/Tunis	Africa/Windhoek		

America

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America/Adak	America/Anchorage	America/Anguilla	America/Antigua
America/Araguaina			
America/Argentina/Buenos_Aires		America/Argentina/Catamarca	
America/Argentina/ComodRivadavia		America/Argentina/Cordoba	
America/Argentina/Jujuy		America/Argentina/La_Rioja	
America/Argentina/Mendoza		America/Argentina/Rio_Gallegos	
America/Argentina/Salta		America/Argentina/San_Juan	
America/Argentina/San_Luis		America/Argentina/Tucuman	
America/Argentina/Ushuaia			
America/Aruba	America/Asuncion	America/Atikokan	America/Atka
America/Bahia	America/Bahia_Banderas	America/Barbados	America/Belem
America/Belize	America/Blanc-Sablon	America/Boa_Vista	America/Bogota
America/Boise	America/Buenos_Aires	America/Cambridge_Bay	
America/Campo_Grande		America/Cancun	America/Caracas
America/Catamarca	America/Cayenne	America/Cayman	America/Chicago
America/Chihuahua	America/Coral_Harbour	America/Cordoba	America/Costa_Rica
America/Creston	America/Cuiaba	America/Curacao	
America/Danmarkshavn			
America/Dawson	America/Dawson_Creek	America/Denver	America/Detroit
America/Dominica	America/Edmonton	America/Eirunepe	
America/El_Salvador			
America/Ensenada	America/Fort_Wayne	America/Fortaleza	America/Glace_Bay
America/Godthab	America/Goose_Bay	America/Grand_Turk	America/Grenada
America/Guadeloupe		America/Guatemala	America/Guayaquil
America/Guyana	America/Halifax	America/Havana	America/Hermosillo
America/Indiana/Indianapolis		America/Indiana/Knox	
America/Indiana/Marengo		America/Indiana/Petersburg	
America/Indiana/Tell_City		America/Indiana/Vevay	
America/Indiana/Vincennes		America/Indiana/Winamac	
America/Indianapolis		America/Inuvik	America/Iqaluit
America/Jamaica	America/Jujuy	America/Juneau	
America/Kentucky/Louisville		America/Kentucky/Monticello	
America/Knox_IN	America/Kralendijk	America/La_Paz	America/Lima
America/Los_Angeles		America/Louisville	
America/Lower_Princes		America/Maceio	America/Managua
America/Manaus	America/Marigot	America/Martinique	America/Matamoros
America/Mazatlan	America/Mendoza	America/Menominee	America/Merida
America/Metlakatla		America/Mexico_City	America/Miquelon
America/Moncton	America/Monterrey	America/Montevideo	America/Montreal
America/Montserrat		America/Nassau	America/New_York
America/Nipigon	America/Nome	America/Noronha	
America/North_Dakota/Beulah		America/North_Dakota/Center	
America/North_Dakota/New_Salem		America/Ojinaga	America/Panama
America/Pangnirtung		America/Paramaribo	America/Phoenix
America/Port-au-Prince		America/Port_of_Spain	America/Porto_Acre
America/Porto_Velho		America/Puerto_Rico	
America/Rainy_River			
America/Rankin_Inlet		America/Recife	America/Regina
America/Resolute	America/Rio_Branco	America/Rosario	
America/Santa_Isabel			
America/Santarem	America/Santiago	America/Santo_Domingo	America/Sao_Paulo

America/Scoresbysund		America/Shiprock	America/Sitka
America/St_Barthelemy		America/St_Johns	America/St_Kitts
America/St_Lucia	America/St_Thomas	America/St_Vincent	
America/Swift_Current			
America/Tegucigalpa		America/Thule	
America/Thunder_Bay			
America/Tijuana	America/Toronto	America/Tortola	America/Vancouver
America/Virgin	America/Whitehorse	America/Winnipeg	America/Yakutat
America/Yellowknife			

Antarctica

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Antarctica/Casey	Antarctica/Davis	Antarctica/DumontDURville
Antarctica/Macquarie	Antarctica/Mawson	Antarctica/McMurdo
Antarctica/Palmer	Antarctica/Rothera	Antarctica/South_Pole
Antarctica/Syowa	Antarctica/Vostok	

Arctic

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Arctic/Longyearbyen

Asia

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Asia/Aden	Asia/Almaty	Asia/Amman	Asia/Anadyr	Asia/Aqtau
Asia/Aqtobe	Asia/Ashgabat	Asia/Ashkhabad	Asia/Baghdad	Asia/Bahrain
Asia/Baku	Asia/Bangkok	Asia/Beirut	Asia/Bishkek	Asia/Brunei
Asia/Calcutta	Asia/Choibalsan	Asia/Chongqing	Asia/Chungking	Asia/Colombo
Asia/Dacca	Asia/Damascus	Asia/Dhaka	Asia/Dili	Asia/Dubai
Asia/Dushanbe	Asia/Gaza	Asia/Harbin	Asia/Hebron	Asia/Ho_Chi_Minh
Asia/Hong_Kong		Asia/Hovd	Asia/Irkutsk	Asia/Istanbul
Asia/Jakarta	Asia/Jayapura	Asia/Jerusalem	Asia/Kabul	Asia/Kamchatka
Asia/Karachi	Asia/Kashgar	Asia/Kathmandu	Asia/Katmandu	Asia/Khandyga
Asia/Kolkata	Asia/Krasnoyarsk		Asia/Kuala_Lumpur	
Asia/Kuching	Asia/Kuwait	Asia/Macao	Asia/Macau	Asia/Magadan
Asia/Makassar	Asia/Manila	Asia/Muscat	Asia/Nicosia	Asia/Novokuznetsk
Asia/Novosibirsk		Asia/Omsk	Asia/Oral	Asia/Phnom_Penh
Asia/Pontianak		Asia/Pyongyang	Asia/Qatar	Asia/Qyzylorda
Asia/Rangoon	Asia/Riyadh	Asia/Saigon	Asia/Sakhalin	Asia/Samarkand
Asia/Seoul	Asia/Shanghai	Asia/Singapore	Asia/Taipei	Asia/Tashkent
Asia/Tbilisi	Asia/Tehran	Asia/Tel_Aviv	Asia/Thimbu	Asia/Thimphu
Asia/Tokyo	Asia/Ujung_Pandang		Asia/Ulaanbaatar	
Asia/Ulan_Bator		Asia/Urumqi	Asia/Ust-Nera	Asia/Vientiane
Asia/Vladivostok		Asia/Yakutsk	Asia/Yekaterinburg	
Asia/Yerevan				

Atlantic

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Atlantic/Azores	Atlantic/Bermuda	Atlantic/Canary	Atlantic/Cape_Verde
Atlantic/Faeroe	Atlantic/Faroe	Atlantic/Jan_Mayen	Atlantic/Madeira
Atlantic/Reykjavik		Atlantic/South_Georgia	
Atlantic/St_Helena		Atlantic/Stanley	

Australia

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Australia/ACT	Australia/Adelaide	Australia/Brisbane
Australia/Broken_Hill	Australia/Canberra	Australia/Currie
Australia/Darwin	Australia/Eucla	Australia/Hobart
Australia/LHI	Australia/Lindeman	Australia/Lord_Howe
Australia/Melbourne	Australia/North	Australia/NSW

Australia/Perth	Australia/Queensland	Australia/South
Australia/Sydney	Australia/Tasmania	Australia/Victoria
Australia/West	Australia/Yancowinna	

Europe

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Europe/Amsterdam	Europe/Andorra	Europe/Athens	Europe/Belfast
Europe/Belgrade	Europe/Berlin	Europe/Bratislava	Europe/Brussels
Europe/Bucharest	Europe/Budapest	Europe/Busingen	Europe/Chisinau
Europe/Copenhagen	Europe/Dublin	Europe/Gibraltar	Europe/Guernsey
Europe/Helsinki	Europe/Isle_of_Man	Europe/Istanbul	Europe/Jersey
Europe/Kaliningrad	Europe/Kiev	Europe/Lisbon	Europe/Ljubljana
Europe/London	Europe/Luxembourg	Europe/Madrid	Europe/Malta
Europe/Mariehamn	Europe/Minsk	Europe/Monaco	Europe/Moscow
Europe/Nicosia	Europe/Oslo	Europe/Paris	Europe/Podgorica
Europe/Prague	Europe/Riga	Europe/Rome	Europe/Samara
Europe/San_Marino	Europe/Sarajevo	Europe/Simferopol	Europe/Skopje
Europe/Sofia	Europe/Stockholm	Europe/Tallinn	Europe/Tirane
Europe/Tiraspol	Europe/Uzhgorod	Europe/Vaduz	Europe/Vatican
Europe/Vienna	Europe/Vilnius	Europe/Volgograd	Europe/Warsaw
Europe/Zagreb	Europe/Zaporozhye	Europe/Zurich	

Indian

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Indian/Antananarivo	Indian/Chagos	Indian/Christmas
Indian/Cocos	Indian/Comoro	Indian/Kerguelen
Indian/Mahe	Indian/Maldives	Indian/Mauritius
Indian/Mayotte	Indian/Reunion	

Pacific

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Pacific/Apia	Pacific/Auckland	Pacific/Chatham	Pacific/Chuuk
Pacific/Easter	Pacific/Efate	Pacific/Enderbury	Pacific/Fakaofu
Pacific/Fiji	Pacific/Funafuti	Pacific/Galapagos	Pacific/Gambier
Pacific/Guadalcanal		Pacific/Guam	Pacific/Honolulu
Pacific/Johnston	Pacific/Kiritimati	Pacific/Kosrae	Pacific/Kwajalein
Pacific/Majuro	Pacific/Marquesas	Pacific/Midway	Pacific/Nauru
Pacific/Niue	Pacific/Norfolk	Pacific/Noumea	Pacific/Pago_Pago
Pacific/Palau	Pacific/Pitcairn	Pacific/Pohnpei	Pacific/Ponape
Pacific/Port_Moresby		Pacific/Rarotonga	Pacific/Saipan
Pacific/Samoa	Pacific/Tahiti	Pacific/Tarawa	Pacific/Tongatapu
Pacific/Truk	Pacific/Wake	Pacific/Wallis	Pacific/Yap

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How to Replace Network Shutdown Module SSL Certificate

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To replace the self-signed certificate with one signed by a trusted Certificate Authority, use the following procedure.

In this process we will use the following file names for the various files needed (you may change these as you wish):

- server.key: A private key file.
- server.csr: A certificate signing request file.
- server.crt: The web server certificate file.
- intermediate.crt: The CA provided intermediate certificate trust path.

1. Before you begin...

Windows may prevent the creation of new files in the install path due to user permissions. These instructions are best taken where files can be created.

It may be helpful to add the path to openssl to your %PATH% temporarily by using:

```
set PATH=%PATH%;c:\path\to\SE\NetworkShutdownModule\bin\webserver\bin
```

Openssl also needs access to its configuration file. This can be set as an environment variable using:

```
set
```

```
OPENSSL_CONF=c:\path\to\SE\NetworkShutdownModule\bin\webserver\conf\openssl.cnf
```

2. Generate a Private Key.

Begin by creating a private key file, using openssl as shown here:

```
/> openssl genrsa -des3 -out server.key 2048
Generating RSA private key, 2048 bit long modulus
.....+++++
.....+++++
e is 73547 (0x01001)
Enter pass phrase for server.key:
Verifying - Enter pass phrase for server.key:
```

Leave out the -des3 option if you are running Network Shutdown Module on Windows, as Apache does not support this option on Windows.

3. Generate a Certificate Signing Request (CSR).

Using the key generated above, you should generate a certificate request file (server.csr) using openssl as shown here:

```
/> openssl req -new -key server.key -out server.csr
Enter pass phrase for server.key:
You are about to be asked to enter information that will be incorporated into
your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
```

```
-----
Country Name (2 letter code) [GB]:FR
State or Province Name (full name) [Berkshire]:Paris
Locality Name (eg, city) [Newbury]:Paris
Organization Name (eg, company) [My Company Ltd]:Schneider Electric
Organizational Unit Name (eg, section) []:IT
Common Name (eg, your name or your server's hostname) []: ServerName
Email Address []:
```

Please enter the following 'extra' attributes to be sent with your certificate request

```
A challenge password []:
```

```
An optional company name []:
```

4. Get a Valid SSL Certificate

Details may vary here as you interact with your trusted Certificate Authority and how they produce certificates. Typically they will ask for the contents of the server.csr file and using this they will produce a server certificate (server.crt) file for you. Save this file to the server host.

When asked which type of certificate to produce, choose that which is appropriate for ApacheSSL/mod_ssl, which Network Shutdown Module uses.

Your Certificate Authority will also make available an intermediate CA bundle,

which contains any root and intermediate certificates needed to authenticate your new certificate. Save this file also to the server host, (e.g. intermediate.crt).

5. Configure Apache to use the new Certificate.
Copy server.key, server.crt and intermediate.crt files to
..\SE\NetworkShutdownModule\bin\webserver\bin

Edit ..\SE\NetworkShutdownModule\bin\webserver\conf\httpd.conf. The Virtual Host for https server configuration should be updated to:

```
<VirtualHost *:4680>
  RewriteEngine On
  SSLEngine On
  SSLCertificateKeyFile bin/server.key
  SSLCertificateFile bin/server.crt
  SSLCertificateChainFile bin/intermediate.crt
</VirtualHost>
```

Save this file and restart the "Schneider Electric Network Shutdown Module - Web Server" service for settings to take effect. Using a browser to connect to the Network Shutdown Module user interface over https, will present the new Certificate Authority signed ssl certificate.

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Release Notes: Network Shutdown Module (NSM)
Software Release: NSM 3.06.03 (Windows)- October 2011
=====English=====
```

```
New compatibility:
=> Integration of EPS 7000, EPS 7000E, EPS 8000, EPS 8000E
with NMC 66074 (revision NT15 and above).
Bug corrections:
=> New label for UPS in parallel : Integrated Parallel
```

```
=====
Release note Network Shutdown Module 3.05.11 (Windows)
(March 2009)
=====
```

```
New Feature:
Updated PHP 4.4.7 to 5.2.8
Replaced Pi3Web server with Apache 2.0.63
```

```
Remark:
Due to Web server changes, the online upgrade page does not refresh
automatically after upgrade and needs to be refreshed manually.
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```
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Release note Network Shutdown Module 3.04.04 (Windows)
(September 2008)
=====
```

```
New Feature:
New LOGO APC by Schneider
Integration MGE Galaxy 7000
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```
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Release note Network Shutdown Module 3.04 (Windows & Linux)
(November 2007)
=====
```

```
New Feature:
```

Choice for automatic update between MGE Office Protection Systems and APC-MGE software.

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Release note Network Shutdown Module 3.02 (Windows & Linux)
(May 2007)
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New Feature:

Multilingual version:
Chinese, Deutsch, Dutch, English, Espanol, Français,
Italiana, Norsk, Português.

Linux compatibility Debian Sarge & Etch, SLES 10, Redhat RHEL 3&4, Ubuntu Dapper

For Linux, please refer to the User manual FAQ section for:

- * the use of systray
- * the use of languages with specific characters on Debian sarge
- * the Web browser automatic startup at the end of installation
- * the use of repackaging function on Redhat & Debian

Bugs correction:

Correction of by pass transfer problem with Network Management Card Transverse
- 66074.

Correction of the installation upgrade problem (3.00->3.01)
Error message: Failed to copy the file "package name" to
<Installpath>/packaging/NSMInstaller.exe Error 5: accès refusé
[appears only if 3.00 has been installed from CD-Rom Media]

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Previous Version
Release note Network Shutdown Module 3.01
(Feb 2007)
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Bugs correction:

Correction of communication problem with Network Management Card Transverse
- 66074 and Mgt Card Minislot - 66244.

=====
Previous Version
Release note Network Shutdown Module 3.00
(Dec 2006)
=====

Table of contents:

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- 1) Benefits:
- 2) Known limitations

1) Benefits:

- Simple installation

- * no limiting installation pre-requisites (like IIS or JVM or ...)
- * silent installation possibility for application roll out
- Simple use through intuitive Web interface
 - * Improved graphical Look & Feel
 - * Graphical easy and assisted electrical configuration layout
 - * High Security level installed by default (2 level password, Http & Https)
 - * Remote and multi-OS access through Web browser
 - * Menu in the left frame to access the functions
- Additional Features
 - * Compatibility with the major power redundancy modes (check the supported multi-UPS configurations in the user manual)
This new feature has been patented by MGE UPS SYSTEMS
 - * Computers hosting the Network Shutdown Module V3 can be supervised through Enterprise Power Manager V2
 - * Orderly shutdown on UPS controlled outlets
 - * Automatic language detection (English/French) according to Web browser language
 - * Automatic software updates from MGE Website
 - * Compatibility with IBM Blade Center (refer to the appendix)

2) Known limitations:

- * Network Shutdown Module V3 is NOT compatible with the Network Management Card Minislot 2006 Edition 66 102/AA (It is compatible with the next firmware revision /BA)
- * Network Shutdown Module V3 compatibility was tested compatible with
 - > Network Management Card Transverse 66074
 - > and Network Management Card Minislot - 66244
 - > and Network Management Proxy V5
- * Installation Of a Network Shutdown Module on the same PC than Enterprise Power Manager is NOT recommended
- * To uninstall Network Shutdown Module V3 on Vista, please don't use the Add/Remove Programs for the moment.
Please use the shortcuts in the Start Programs (as indicated on the manual).
Note: an error message is displayed at the end of the uninstallation process, it has no consequence (the product has been correctly removed)

=====
=====Francais=====

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Release Notes: Network Shutdown Module (NSM)
Version Logiciel: NSM 3.07.01 (Windows) - Décembre 2013

Nouvelles fonctionnalités

- Mise à jour PHP 5.2.8 to 5.4.10
- Mise à jour Apache 2.0.63 to 2.4.6
- Mise à jour OpenSSL 0.9.8i to 1.0.1e
- Mise à jour SQLite 2.8.6 to 3.7.15.2 comprenant la migration des données lors de la mise à jour.

Nombreuses failles de sécurité identifiées et traitées.
Nombreux problèmes d'installateur identifiés et traités.
Ajout de script de Shutdown pour VMware ESXi hosts and guests. Voir la documentation projet pour les conseils sur l'arrêt de ESXi hosts.

Restriction connues:

Un utilisateur avec droit d'administration est créé par défaut lors de l'installation et documenté dans le guide utilisateur. Puisque cet utilisateur est largement connu, il est recommandé de le changer afin d'augmenter la sécurité.

La langue Chinoise n'est plus disponible dans l'installateur.
Le pack de langue Chinoise est toujours installé et disponible dans l'interface utilisateur.

L'installation d'une version antérieure depuis la 3.07 n'est pas supportée.

Firefox et Internet Explorer sont compatibles avec l'interface utilisateur de Network Shutdown Module

Le navigateur Google Chrome n'est pas compatible avec l'interface utilisateur.

IE ESC (Internet Explorer Enhanced Security Configuration) sur Windows Server 2003 ou supérieur et validé par défaut, ce qui a pour conséquence que certains sites ne sont pas affichés comme attendus. Si vous voulez que NSM soit pleinement fonctionnel, vous pouvez ajouter le site de NSM dans la zone Internet locale ou de confiance.

Plus d'informations disponibles: <http://support.microsoft.com/kb/815141>

Network Shutdown Module n'est pas compatible avec Internet Explorer Metro Style. Sur Windows 2012 et sur les systèmes où Internet Explorer 11 est le navigateur par défaut, un message d'alerte apparaîtra lors du lancement du raccourci. Pour éviter ce message, procédez comme suit:

- Ouvrez les options Internet.
- Sélectionnez l'onglet Programmes.
- Dans la première section, « Ouvrir Internet Explorer », sélectionnez :
« Toujours ouvrir Internet Explorer sur le bureau ».
- Appliquez les changements.

Sur Windows 2008 Server Core et Windows 2012 Server Core, l'installateur graphique ne propose pas la possibilité de sélectionner un autre chemin d'installation. Le chemin par défaut est %PROGRAMFILES%/SE/Network Shutdown Module/. Utilisez l'installateur silencieux pour contourner ce défaut.

Network Shutdown Module installe un certificat auto-certié pour assurer les communications encryptées via le protocole HTTPS. Certains navigateurs peuvent signaler une alerte comme quoi ils ne peuvent faire confiance à un certificat auto certifié. Il est recommandé que ces certificats soient remplacés par des certifications équivalentes suivant la procédure décrite plus bas.

La langue Chinoise est disponible dans l'interface utilisateur mais pas dans l'installateur et les icônes de lancement.

Le menu Système est affiché en Anglais uniquement

Toutes les notifications d'événements sont en anglais uniquement

Les historiques sont en anglais uniquement.

La base de données utilisée par Network Shutdown Module est placée dans le répertoire des données de l'application sur Windows.

Cet emplacement peut varier suivant la version du système d'exploitation.

NSM utilise les variables d'environnement %AllUsersProfile% et %ProgramData% pour

localiser ce répertoire. Au moins une de ces variables doit être définie sur votre

système. Sur les systèmes où les deux sont définis, %ProgramData% est utilisé

Sur Windows 2003 R2 SP2 la désinstallation peut laisser des répertoires vides, (ex :..\SE\NetworkShutdownModule\packaging). Ces répertoires peuvent être supprimés en toute sécurité après redémarrage du système.

Suivant la version de Windows, vous disposerez de différentes commandes d'envoi de message : 'net send' (ancien) ou 'msg' (nouveau). Network Shutdown Module utilise

la commande 'msg', car elle dispose du plus large support auprès des nouveaux systèmes d'exploitation Windows. Si vous utilisez d'anciennes versions de Windows,

remplacez la commande 'msg' par la commande équivalente à 'net send' lors de la configuration des actions 'Envoie de Message à l'Administrateur' ou 'Envoie de Message aux Utilisateurs'. Vous aurez peut être à valider le service de messagerie

pour ces actions, voir la documentation de votre système d'exploitation pour plus

de détails.

La diffusion de message en « Broadcast » n'est pas disponible sur Windows 8.

Sur Windows 2003, lors de l'installation, le gestionnaire de fichier permet de sélectionner des répertoires non valide, tel que « Mon ordinateur », ou « Ordinateur en Réseau ». Ce qui peut prêter à confusion : Network Shutdown Module

Ne peut être installer que dans des répertoire locaux valides, et ne peut être installé sur le répertoire racine, disque amovible ou en lecture seule.

Assurez vous que la destination souhaitée est bien la bonne lors de l'installation

Le raccourci vers la supervision de NSM n'est pas automatiquement installé sur l'écran de démarrage de Windows 8. Cela peut être fait manuellement en sélectionnant le raccourci dans « Toutes les applications » puis « Epingler dans l'écran d'accueil ».

Lorsque l'on lance un fichier de commande dans une action, ou pour l'arrêt, le fichier de commande est exécuté depuis le répertoire :

< répertoire d'installation > \SE\NetworkShutdownModule\www\

Les chemins relatifs doivent être relatifs à ce chemin. Les chemins absolus peuvent

être utilisés. Dans les deux cas, si les répertoires contiennent des espaces, insérez des guillemets afin que NSM puisse interpréter correctement le chemin.

Lorsqu'on utilise le bouton « Parcourir » avec le navigateur Microsoft Internet Explorer pour sélectionner un fichier de commande dans une action, par exemple, la sélection du fichier « shutdown.bat », le système placera :

« C:\fakepath\shutdown.bat » dans la ligne de commande, bien que le répertoire

« C:\fakepath\ » n'existe pas. Ceci est dû aux paramètres de sécurité d'Internet Explorer. Pour désactiver cette fonction et permettre d'entrer le chemin complet, depuis Internet Explorer, ouvrez « Options Internet », onglet « Sécurité », puis cliquez sur « Personnaliser » et descendez jusqu'à l'option : « Inclure le chemin d'accès au répertoire local lors du téléchargement des fichiers sur le serveur ». Validez l'option et appliquez les changements. Ré ouvrez le navigateur pour s'assurer que les changements sont bien actifs.

Lorsqu'un événement de shutdown est détecté, NSM préviendra l'utilisateur que le shutdown commencera lorsque le Shutdown Timer sera écoulé. NSM ne donnera qu'un seul avertissement et de donnera pas de compte à rebours.

Un événement onduleur unique peut parfois générer plusieurs notifications, messages, e-mails ou appel de script

La valeur du Shutdown Timer qui apparaît dans l'interface utilisateur est le temps entre l'apparition de l'événement onduleur et l'arrêt effectif. Le OSSHUTDOWNDELAY donné dans le script d'arrêt d'ESXi est le temps d'attente donné par le système d'exploitation lorsqu'un ordre d'arrêt est initialisé. Ce temps d'attente ne commence que lorsque le script d'arrêt d'ESXi a arrêté toutes les machines virtuelles associées, puis vient l'arrêt de la machine hébergeant NSM.

La séquence suivante résume la chronologie:

Apparition de l'événement onduleur

- > Attente du Shutdown Timer (en secondes)
- > Lancement du script d'arrêt d'ESXi: « shutdown bat »
- > Tous les ESXi sont arrêtés
- > Lancement de l'arrêt de la machine NSM
- > Attente de OSSHUTDOWNDELAY (seconds)
- > Arrêt de la machine NSM.

Une tentative d'accès à une page protégée du Network Shutdown Module sans être authentifié sera redirigée vers l'écran d'accueil d'authentification, avec une trace dans le fichier d'historique:
« L'utilisateur ne dispose pas des droits suffisants. Redirection vers connecter. »

Network Shutdown Module 3.07 n'est pas compatible avec Enterprise Power Manager.

Sur Windows 2012 Standard R2, l'icône de NSM de la barre des tâches peut se bloquer (présentation des menus). Dans ce cas, il est recommandé de lancer l'interface utilisateur depuis le raccourci du menu (ou du bureau), ou suivant l'url: <https://localhost:4680/mgeups/login.php>

L'application de la barre des tâches peut être relancée en exécutant les commandes suivantes (en tant qu'administrateur):
<répertoire d'installation>\bin\netsystray\mgenetsystray.exe -stop
<répertoire d'installation>\bin\netsystray\mgenetsystray.exe -deferred

=====
Comment paramétrer le fuseau horaire.
=====

PHP 5.4.0 et version ultérieure, nécessite de paramétrer le fuseau horaire dans le fichier de configuration de php (php.ini).

Network Shutdown Module utilise le fuseau horaire configuré par défaut :

« UTC ».

Une différence de fuseau horaire entre le système d'exploitation et PHP peut conduire à des confusions d'horodatages dans les historiques et dans les délais de reprise après une perte de communication avec l'onduleur.

Il est fortement recommandé de configurer un fuseau horaire correspondant à votre système d'exploitation.

Par défaut, le fuseau horaire est défini à la ligne 919 du fichier php.ini, à la valeur: `date.timezone = UTC`

Remplacer la valeur « UTC » avec votre fuseau horaire local, tel que:
`date.timezone = Europe/Paris`

Une liste des principaux fuseaux horaires est représentée ici.

Pour une liste complète des fuseaux horaires, veuillez vous référer au site:
<http://us3.php.net/manual/en/timezones.php>

Afrique

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Africa/Abidjan	Africa/Accra	Africa/Addis_Ababa	Africa/Algiers
Africa/Asmara	Africa/Asmera	Africa/Bamako	Africa/Bangui
Africa/Banjul	Africa/Bissau	Africa/Blantyre	Africa/Brazzaville
Africa/Bujumbura	Africa/Cairo	Africa/Casablanca	Africa/Ceuta
Africa/Conakry	Africa/Dakar	Africa/Dar_es_Salaam	Africa/Djibouti
Africa/Douala	Africa/El_Aaiun	Africa/Freetown	Africa/Gaborone
Africa/Harare	Africa/Johannesburg	Africa/Juba	Africa/Kampala
Africa/Khartoum	Africa/Kigali	Africa/Kinshasa	Africa/Lagos
Africa/Libreville	Africa/Lome	Africa/Luanda	Africa/Lubumbashi
Africa/Lusaka	Africa/Malabo	Africa/Maputo	Africa/Maseru
Africa/Mbabane	Africa/Mogadishu	Africa/Monrovia	Africa/Nairobi
Africa/Ndjamena	Africa/Niamey	Africa/Nouakchott	Africa/Ouagadougou
Africa/Porto-Novo	Africa/Sao_Tome	Africa/Timbuktu	Africa/Tripoli
Africa/Tunis	Africa/Windhoek		

Amerique

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America/Adak	America/Anchorage	America/Anguilla	America/Antigua
America/Araguaina			
America/Argentina/Buenos_Aires		America/Argentina/Catamarca	
America/Argentina/ComodRivadavia		America/Argentina/Cordoba	
America/Argentina/Jujuy		America/Argentina/La_Rioja	
America/Argentina/Mendoza		America/Argentina/Rio_Gallegos	
America/Argentina/Salta		America/Argentina/San_Juan	
America/Argentina/San_Luis		America/Argentina/Tucuman	
America/Argentina/Ushuaia			
America/Aruba	America/Asuncion	America/Atikokan	America/Atka
America/Bahia	America/Bahia_Banderas	America/Barbados	America/Belem
America/Belize	America/Blanc-Sablon	America/Boa_Vista	America/Bogota
America/Boise	America/Buenos_Aires	America/Cambridge_Bay	
America/Campo_Grande		America/Cancun	America/Caracas
America/Catamarca	America/Cayenne	America/Cayman	America/Chicago
America/Chihuahua	America/Coral_Harbour	America/Cordoba	America/Costa_Rica

America/Creston	America/Cuiaba	America/Curacao	
America/Danmarkshavn			
America/Dawson	America/Dawson_Creek	America/Denver	America/Detroit
America/Dominica	America/Edmonton	America/Eirunepe	
America/El_Salvador			
America/Ensenada	America/Fort_Wayne	America/Fortaleza	America/Glace_Bay
America/Godthab	America/Goose_Bay	America/Grand_Turk	America/Grenada
America/Guadeloupe		America/Guatemala	America/Guayaquil
America/Guyana	America/Halifax	America/Havana	America/Hermosillo
America/Indiana/Indianapolis		America/Indiana/Knox	
America/Indiana/Marengo		America/Indiana/Petersburg	
America/Indiana/Tell_City		America/Indiana/Vevay	
America/Indiana/Vincennes		America/Indiana/Winamac	
America/Indianapolis		America/Inuvik	America/Iqaluit
America/Jamaica	America/Jujuy	America/Juneau	
America/Kentucky/Louisville		America/Kentucky/Monticello	
America/Knox_IN	America/Kralendijk	America/La_Paz	America/Lima
America/Los_Angeles		America/Louisville	
America/Lower_Princes		America/Maceio	America/Managua
America/Manaus	America/Marigot	America/Martinique	America/Matamoros
America/Mazatlan	America/Mendoza	America/Menominee	America/Merida
America/Metlakatla		America/Mexico_City	America/Miquelon
America/Moncton	America/Monterrey	America/Montevideo	America/Montreal
America/Montserrat		America/Nassau	America/New_York
America/Nipigon	America/Nome	America/Noronha	
America/North_Dakota/Beulah		America/North_Dakota/Center	
America/North_Dakota/New_Salem		America/Ojinaga	America/Panama
America/Pangnirtung		America/Paramaribo	America/Phoenix
America/Port-au-Prince		America/Port_of_Spain	America/Porto_Acre
America/Porto_Velho		America/Puerto_Rico	
America/Rainy_River			
America/Rankin_Inlet		America/Recife	America/Regina
America/Resolute	America/Rio_Branco	America/Rosario	
America/Santa_Isabel			
America/Santarem	America/Santiago	America/Santo_Domingo	America/Sao_Paulo
America/Scoresbysund		America/Shiprock	America/Sitka
America/St_Barthelemy		America/St_Johns	America/St_Kitts
America/St_Lucia	America/St_Thomas	America/St_Vincent	
America/Swift_Current			
America/Tegucigalpa		America/Thule	
America/Thunder_Bay			
America/Tijuana	America/Toronto	America/Tortola	America/Vancouver
America/Virgin	America/Whitehorse	America/Winnipeg	America/Yakutat
America/Yellowknife			

Antarctique

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Antarctica/Casey	Antarctica/Davis	Antarctica/DumontDUrville
Antarctica/Macquarie	Antarctica/Mawson	Antarctica/McMurdo
Antarctica/Palmer	Antarctica/Rothera	Antarctica/South_Pole
Antarctica/Syowa	Antarctica/Vostok	

Arctique

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Arctic/Longyearbyen

Asie

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Asia/Aden	Asia/Almaty	Asia/Amman	Asia/Anadyr	Asia/Aqtau
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Asia/Aqtobe	Asia/Ashgabat	Asia/Ashkhabad	Asia/Baghdad	Asia/Bahrain
Asia/Baku	Asia/Bangkok	Asia/Beirut	Asia/Bishkek	Asia/Brunei
Asia/Calcutta	Asia/Choibalsan	Asia/Chongqing	Asia/Chungking	Asia/Colombo
Asia/Dacca	Asia/Damascus	Asia/Dhaka	Asia/Dili	Asia/Dubai
Asia/Dushanbe	Asia/Gaza	Asia/Harbin	Asia/Hebron	Asia/Ho_Chi_Minh
Asia/Hong_Kong		Asia/Hovd	Asia/Irkutsk	Asia/Istanbul
Asia/Jakarta	Asia/Jayapura	Asia/Jerusalem	Asia/Kabul	Asia/Kamchatka
Asia/Karachi	Asia/Kashgar	Asia/Kathmandu	Asia/Katmandu	Asia/Khandyga
Asia/Kolkata	Asia/Krasnoyarsk		Asia/Kuala_Lumpur	
Asia/Kuching	Asia/Kuwait	Asia/Macao	Asia/Macau	Asia/Magadan
Asia/Makassar	Asia/Manila	Asia/Muscat	Asia/Nicosia	Asia/Novokuznetsk
Asia/Novosibirsk		Asia/Omsk	Asia/Oral	Asia/Phnom_Penh
Asia/Pontianak		Asia/Pyongyang	Asia/Qatar	Asia/Qyzylorda
Asia/Rangoon	Asia/Riyadh	Asia/Saigon	Asia/Sakhalin	Asia/Samarkand
Asia/Seoul	Asia/Shanghai	Asia/Singapore	Asia/Taipei	Asia/Tashkent
Asia/Tbilisi	Asia/Tehran	Asia/Tel_Aviv	Asia/Thimbu	Asia/Thimphu
Asia/Tokyo	Asia/Ujung_Pandang		Asia/Ulaanbaatar	
Asia/Ulan_Bator		Asia/Urumqi	Asia/Ust-Nera	Asia/Vientiane
Asia/Vladivostok		Asia/Yakutsk	Asia/Yekaterinburg	
Asia/Yerevan				

Atlantique

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Atlantic/Azores	Atlantic/Bermuda	Atlantic/Canary	Atlantic/Cape_Verde
Atlantic/Faeroe	Atlantic/Faroe	Atlantic/Jan_Mayen	Atlantic/Madeira
Atlantic/Reykjavik		Atlantic/South_Georgia	
Atlantic/St_Helena		Atlantic/Stanley	

Australie

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Australia/ACT	Australia/Adelaide	Australia/Brisbane
Australia/Broken_Hill	Australia/Canberra	Australia/Currie
Australia/Darwin	Australia/Eucla	Australia/Hobart
Australia/LHI	Australia/Lindeman	Australia/Lord_Howe
Australia/Melbourne	Australia/North	Australia/NSW
Australia/Perth	Australia/Queensland	Australia/South
Australia/Sydney	Australia/Tasmania	Australia/Victoria
Australia/West	Australia/Yancowinna	

Europe

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Europe/Amsterdam	Europe/Andorra	Europe/Athens	Europe/Belfast
Europe/Belgrade	Europe/Berlin	Europe/Bratislava	Europe/Brussels
Europe/Bucharest	Europe/Budapest	Europe/Busingen	Europe/Chisinau
Europe/Copenhagen	Europe/Dublin	Europe/Gibraltar	Europe/Guernsey
Europe/Helsinki	Europe/Isle_of_Man	Europe/Istanbul	Europe/Jersey
Europe/Kaliningrad	Europe/Kiev	Europe/Lisbon	Europe/Ljubljana
Europe/London	Europe/Luxembourg	Europe/Madrid	Europe/Malta
Europe/Mariehamn	Europe/Minsk	Europe/Monaco	Europe/Moscow
Europe/Nicosia	Europe/Oslo	Europe/Paris	Europe/Podgorica
Europe/Prague	Europe/Riga	Europe/Rome	Europe/Samara
Europe/San_Marino	Europe/Sarajevo	Europe/Simferopol	Europe/Skopje
Europe/Sofia	Europe/Stockholm	Europe/Tallinn	Europe/Tirane
Europe/Tiraspol	Europe/Uzhgorod	Europe/Vaduz	Europe/Vatican
Europe/Vienna	Europe/Vilnius	Europe/Volgograd	Europe/Warsaw
Europe/Zagreb	Europe/Zaporozhye	Europe/Zurich	

Inde

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Indian/Antananarivo	Indian/Chagos	Indian/Christmas
Indian/Cocos	Indian/Comoro	Indian/Kerguelen
Indian/Mahe	Indian/Maldives	Indian/Mauritius
Indian/Mayotte	Indian/Reunion	

Pacifique
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Pacific/Apia	Pacific/Auckland	Pacific/Chatham	Pacific/Chuuk
Pacific/Easter	Pacific/Efate	Pacific/Enderbury	Pacific/Fakaofu
Pacific/Fiji	Pacific/Funafuti	Pacific/Galapagos	Pacific/Gambier
Pacific/Guadalcanal		Pacific/Guam	Pacific/Honolulu
Pacific/Johnston	Pacific/Kiritimati	Pacific/Kosrae	Pacific/Kwajalein
Pacific/Majuro	Pacific/Marquesas	Pacific/Midway	Pacific/Nauru
Pacific/Niue	Pacific/Norfolk	Pacific/Noumea	Pacific/Pago_Pago
Pacific/Palau	Pacific/Pitcairn	Pacific/Pohnpei	Pacific/Ponape
Pacific/Port_Moresby		Pacific/Rarotonga	Pacific/Saipan
Pacific/Samoa	Pacific/Tahiti	Pacific/Tarawa	Pacific/Tongatapu
Pacific/Truk	Pacific/Wake	Pacific/Wallis	Pacific/Yap

=====
Comment remplacer le certificat SSL du Network Shutdown Module
=====

Pour remplacer le certificat auto-certi   par un certificat authenti   par une Autorit   de Certification, utiliser la proc  dure suivante.

Dans cette proc  dure, nous utiliserons les noms de fichiers suivant, que vous pouvez changer    votre convenance:

server.key:	fichier de cl�� priv��e.
server.csr:	fichier de demande de certificat sign��.
server.crt:	fichier certificat du serveur web.
intermediate.crt:	certificat fourni par l'Autorit�� de Certification.

1. Avant de commencer...

Windows peut refuser la cr  ation de nouveaux fichiers dans le r  pertoire d'installation en fonction des droits utilisateur. Ces instructions sont accept  es par le propri  taire des fichiers.

Il peut   tre utile d'ajouter le chemin vers openssl dans la variable temporaire %PATH% en utilisant:

```
set PATH=%PATH%;c:\path\to\SE\NetworkShutdownModule\bin\webserver\bin
```

Openssl a aussi besoin de son fichier de configuration. Ce peut   tre r  alis   en ajoutant une variable d'environnement:

```
set  
OPENSSL_CONF=c:\path\to\SE\NetworkShutdownModule\bin\webserver\conf\openssl.cnf
```

2. G  n  ration de la cl   Priv  e.

Commencez    cr  er la cl   priv  e en utilisant openssl avec les commandes suivantes:

```
> openssl genrsa -des3 -out server.key 2048  
Generating RSA private key, 2048 bit long modulus  
.....+++++  
.....+++++  
e is 73547 (0x01001)  
Enter pass phrase for server.key:  
Verifying - Enter pass phrase for server.key:
```

Ne pas utiliser l'option « -des3 » si vous utilisez Network Shutdown Module sur

Windows, car Apache ne gère pas cette option sur Windows.

3. Génération d'un « Certificate Signing Request » (CSR).

En utilisant la clé précédemment créée, générer le fichier « Certificate Signing Request » (server.csr) en utilisant openssl comme suit:

```
into /> openssl req -new -key server.key -out server.csr
Enter pass phrase for server.key:
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [GB]:FR
State or Province Name (full name) [Berkshire]:Paris
Locality Name (eg, city) [Newbury]:Paris
Organization Name (eg, company) [My Company Ltd]:Schneider Electric
Organizational Unit Name (eg, section) []:IT
Common Name (eg, your name or your server's hostname) []: ServerName
Email Address []:

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

4. Obtention d'un Certificat SSL Valide

Les détails peuvent varier en fonction de votre Autorité de Certification et de la façon de générer les certificats. Typiquement, le contenu du fichier server.csr vous sera demandé afin de générer le fichier certificat server.crt. Sauvegardez ce fichier.

Lorsque le type de certificat est demandé, choisir le type approprié pour ApacheSSL/mod_ssl, qu'utilise Network Shutdown Module.

Votre Autorité de Certification vous fournira un lot de fichiers intermédiaires, nécessaires à l'authentification de votre nouveau certificat. Sauvegardez ce fichier (intermediate.crt).

5. Configurez Apache pour utiliser le nouveau Certificat.

Copiez les fichiers server.key, server.crt et intermediate.crt dans ..\SE\NetworkShutdownModule\bin\webserver\bin

Editez le fichier ..\SE\NetworkShutdownModule\bin\webserver\conf\httpd.conf. Mettre à jour la section VirtualHost pour la configuration du serveur https:

```
<VirtualHost *:4680>
  RewriteEngine On
  SSLEngine On
  SSLCertificateKeyFile bin/server.key
  SSLCertificateFile bin/server.crt
  SSLCertificateChainFile bin/intermediate.crt
</VirtualHost>
```

Sauvegardez ce fichier et redémarrez le service:

« Schneider Electric Network Shutdown Module - Web Server » pour que les nouveaux paramètres prennent effets.
Lancez un navigateur pour vous connectez à l'interface utilisateur du Network Shutdown Module en https à l'aide du nouveau certificat venant de l'Autorité de Certification ssl.

=====
Release Notes: Network Shutdown Module (NSM)
Software Release: NSM 3.06.03 (Windows)- October 2011
=====

Nouvelles compatibilités:
=> Intégration EPS 7000, EPS 7000E, EPS 8000, EPS 8000E
avec la carte NMC 66074 (niveau technique NT15 ou supérieur)
Correction de défauts :
=> Nouveau libellé pour UPS en parallèle : Integrated Parallel

=====
Release note Network Shutdown Module 3.05.11 (Windows)
(March 2009)
=====

Nouvelles fonctions :
Mise à jour PHP 4.6 vers 5.2.8
Mise à jour serveur web Pi3 avec Apache 2.063

Remarque:
Due au changement de serveur web, la page de mise à jour peut ne pas être rafraichie automatiquement en fin d'installation, et demander un rafraichissement manuel

=====
Release note Network Shutdown Module 3.04.04 (Windows)
(Septembre 2008)
=====

Nouvelles fonctions :
Nouveau LOGO APC by Schneider
Integration MGE Galaxy 7000

=====
Release note Network Shutdown Module 3.04
(Novembre 2007)
=====

Nouvelles fonctions :
Choix pour la mise à jour automatique entre les logiciels de MGE Office Protection Systems et APC-MGE.

=====
Release note Network Shutdown Module 3.02
(Mai 2007)
=====

Nouvelles fonctions :
Version Multilingue :
Chinese, Deutsch, Dutch, English, Espanol, Français, Italiana, Norsk, Portugûês.

Compatibilité Linux avec Debian Sarge & Etch, SLES 10, Redhat RHEL 3&4,
Ubuntu Dapper

Pour la version Linux, merci de vous référer à la partie FAQ pour:

- * l'utilisation du systray
- * l'utilisation des langues ayant des caractères spécifiques sous Debian Sarge
- * le lancement automatique du navigateur Web en fin d'installation sous Debian
- * l'utilisation de la fonction création d'un package personnalisé sous Redhat & Debian

Correction de défauts :

Correction de problème de séquences de passage sur by pass avec les cartes
Network Management

Card Transverse Card - 66074.

Correction du problème à l'installation lors de la mise à jour (3.00->3.01)

Message d'erreur: Failed to copy the file "package name" to
<Installpath>/packaging/NSMInstaller.exe Error 5: accès refusé
[apparaît uniquement si la 3.00 a été installée depuis Media CD]

=====
Release note Network Shutdown Module 3.01
(Fev 2007)
=====

Correction de défauts:

Correction de problème de communication avec les cartes Network Management
Card Transvers Card - 66074 and Mgt Card Minislot Card - 66244.

=====
Release note Network Shutdown Module 3.00
(Dec 2006)
=====

Sommaire:

=====

- 1) Bénéfice
- 2) Limitations connues aujourd'hui

1) Bénéfice :

- installation simplifiée
 - * pas de pré-requis d'installation contraignant (comme IIS ou JVM ou ...)
 - * possibilité d'installation silencieuse pour le déploiement d'application
- utilisation simplifiée grâce à une interface Web intuitive
 - * Ergonomie et apparence graphique améliorée
 - * Configuration graphique simple de l'architecture électrique
 - * Haut niveau de sécurité installé par défaut (2 niveaux de mot de passe, Http & Https)
 - * Accès distant et multiplateforme par Navigateur Internet
 - * Présence d'un menu dans la zone de gauche pour accéder aux fonctions

- fonctions additionnelles
 - * Gère les principales configurations électriques redondantes (reportez vous à la liste des configurations supportées du manuel utilisateur)
Cette fonction exclusive a été brevetée par MGE UPS SYSTEMS
 - * Les ordinateurs hébergeant Network Shutdown Module V3 peuvent être supervisés par Enterprise Power Manager V2
 - * Gestion de l'arrêt système sur prise programmable onduleur
 - * Détection automatique de la langue Anglais / Français (selon le navigateur Web)
 - * Mise à jour logicielle automatique depuis le Web MGE
 - * Compatibilité avec IBM Blade Center (Cf annexe dédiée)

2) Limitations connues aujourd'hui :

- * Network Shutdown Module V3 n'est PAS compatible avec Network Management Card Minislot 2006 Edition 66 102 /AA (Il est compatible avec le firmware /BA).

Nous avons testé la compatibilité de Network Shutdown Module V3 avec

- > Network Management Card Transverse 66074
- > Network Management Card Minislot - 66244
- > Network Management Proxy V5

- * La cohabitation sur une même machine entre Enterprise Power Manager et Network Shutdown Module V3 n'est pas recommandée.
- * Pour désinstaller le Network Shutdown Module V3 sur Vista, merci de ne pas utiliser la fonction Ajout/Suppression de programmes pour le moment.
Merci d'utiliser les raccourcis dans Démarrer -> Programmes (comme indiqué dans le manuel utilisateur).
Note: un message d'erreur est affiché à la fin de la désinstallation
Il est sans conséquences (le produit est correctement désinstallé)