

This document describes the evolution of features and updates for the Netsilon time server range.

## TABLE OF CONTENTS

<b>UPDATE_V1.1E07_12/2023</b>	<b>2</b>
<b>UPDATE_V1.1E05_07/2023</b>	<b>2</b>
<b>UPDATE_V1.1D01_11/2022</b>	<b>2</b>
<b>UPDATE_V1.1C06_02/2022</b>	<b>3</b>
<b>UPDATE_V1.1C05_04/2021</b>	<b>4</b>
<b>UPDATE_V1.1C04_12/2020</b>	<b>4</b>
<b>UPDATE_V1.1C03_11/2020</b>	<b>4</b>
<b>UPDATE_V1.1C02_10/2020</b>	<b>5</b>
<b>UPDATE_V1.1C01_11/2019</b>	<b>6</b>
<b>ANNEX 1 _ NETSILON OPEN-SOURCE SOFTWARE PACKAGES</b>	<b>7</b>

# RELEASE NOTES

## NETSILON

Last version

# V1.1E07

12/2023



>> [www.bodet-time.com](http://www.bodet-time.com) <<

Ref.: 608602F 02/24

Non-contractual document. © 2024, Bodet Time & Sport. All rights reserved.



### BODET TIME & SPORT

1, Rue du Général de Gaulle  
49340 TREMENTINES - FRANCE  
Tel. Support : 02 41 71 72 33



# RELEASE NOTES

## NETSILON

Last version

# V1.1E07

12/2023



**Bodet**

### UPDATE\_V1.1E07\_12/2023

#### NETSILON :

##### Enhancements :

- SNMPv3 supervision: «AuthNoPriv» and «NoAuthNoPriv» profiles added.

### UPDATE\_V1.1E05\_07/2023

#### NETSILON :

##### Enhancements :

- Synchronisation: management of the new secure GNSS synchronisation antenna (Netsilon 9 and Netsilon 11),
- Network: 50 static routes can be configured as a maximum,
- Certificates and keys: certificate management (CSR) for https with the PKI (Public Key Infrastructure), Microsoft ADCS (Active Directory Certificate Services).

##### Fixes / Problems resolved :

- Timestamping of all logs in UTC time.

### UPDATE\_V1.1D01\_11/2022

#### NETSILON :

##### Enhancements :

- Network interfaces :
  - added support for link aggregation (bonding),
  - added VLAN support, bond over VLANs and VLAN tagging (PTP option),
  - added support for 802.1x protocol.
- HTTPS: possibility to use a certificate signed by an external CA,
- Certificates and keys: addition of a dedicated pool to centralise the management of certificates (CA certificates and signed certificates) and public keys in Netsilon,
- Certificates and keys: addition of an alarm to be configured to warn of the upcoming expiration of a certificate.

## UPDATE\_V1.1C06\_02/2022

### NETSILON :

#### Enhancements :

- Distribution : management of the IRIG Output option card (Netsilon 9 and Netsilon 11),
- Synchronisation : management of the new Bodet GLONASS synchronisation antenna for Netsilon 7,
- Synchronisation : possibility to set a «time-out before freerun» and to distinguish the NTP server stratum of Netsilon according to the «holdover» and «freerun» states,
- NTP client synchronisation : increase from 5 to a maximum of 10 NTP servers,
- Time zone : possibility to manually enter TAI/UTC offset and to program a manual Leap Second,
  - Possibility to be synchronised by an IRIG signal in PTP master mode.
- https : disabling TLS 1.0 and TLS 1.1,
- History : PTP and IRIG statistics are stored for one month,
- Web server interface available in Russian,
- Update : Kernel 5.4 + packages (see annex 1),
- SMTP : support for Gmail Pro servers.

#### Fixes / Problems resolved :

- Openssl 1.1.1k : patched to include security fixes for CVE-2021-3711 and CVE2021-3712 vulnerabilities (see annex 1),
- Error message «Division by 0» (firmware update),
- IRIG setting text : «(3) BCD Toy, Binary Seconds».

# RELEASE NOTES

## NETSILON

Last version

# V1.1E07

12/2023

The logo for Bodet, featuring the word "Bodet" in a stylized, italicized font inside a yellow rounded rectangle with a black border.



# RELEASE NOTES

## NETSILON

Last version

# V1.1E07

12/2023



**Bodet**

>> [www.bodet-time.com](http://www.bodet-time.com) <<

### UPDATE\_V1.1C05\_04/2021

#### NETSILON :

##### Enhancements :

- Added LDAP support,
- Added RADIUS support,
- Added SYSLOG support,
- IRIG : added DCLS Level.

##### Fixes / Problems resolved :

- User management : message of the allowed characters for the password without « \ »,
- Alarms : duplication of two unacknowledged alarms.

### UPDATE\_V1.1C04\_12/2020

#### NETSILON :

##### Enhancements :

- AC+AC version added.

##### Fixes / Problems resolved :

- SSH : no «none» state in case of no power supply for polling power supply states in SSH.

### UPDATE\_V1.1C03\_11/2020

#### NETSILON :

##### Enhancements :

- Added the NTP strat setting of the internal source.

##### Fixes / Problems resolved :

- NTP Keys : NTP symmetric keys are no longer generated after a web update or a configuration upload,
- Fixed display of stratum via SSH and SNMP Agent if product status is «Holdover» or «Freerun».

## UPDATE\_V1.1C02\_10/2020

### NETSILON :

#### Enhancements :

- IRIG : OCXO oscillator disciplining management added,
- Added IRIG Input option management,
- IRIG : addition of an «offset» + «synchronise oscillator» field,
- Character «-» allowed in the user name,
- Improved modification of user passwords,
- The character «space» is accepted in the password (only),
- Addition of IPv4/IPv6 static routes,
- PTP : deletion of DNS information,
- PTP Approach : «One Step» is now the default.

#### Fixes / Problems resolved :

- Time protocol : the «time protocol» service is enabled by default after a factory reset,
- The web server becomes inactive for 2 minutes after entering a wrong password/login containing unallowed special characters,
- IRIG / SMTP : the IRIG card name is not displayed for the IRIG failure alarm in SMTP,
- SSH : the «SSH system version» command does not display the Timing module version (Netsilon 9 and 11),
- PTP : PTP history is not deleted after a return to factory configuration,
- The PPS output of the Netsilon is activated in the «Disciplining PTP» state, but is no longer disciplined during the PTP card is being disciplined,
- Time zone : the date of the time change announced on the web page is wrong for some areas.

# RELEASE NOTES

## NETSILON

Last version

# V1.1E07


12/2023

The logo for Bodet, featuring the word "Bodet" in a stylized, italicized font with a yellow background and a black border.

## UPDATE\_V1.1C01\_11/2019

### NETSILON :

#### Enhancements :

- GNSS : addition of the «timing» mode,
- GNSS : possibility of compensation: via cable length or delay,
- GPS : rollover management,
- Synchronisation : in the GNSS parameters, addition of «Time Mode» + «survey status» info,
- Oscillator statistics : temperature is now a displayed parameter,
- Oscillator statistics : the graph is hidden if there is no data,
- PTP V2 management,
- Addition for PTP : (configuration page, statistics page, alarms),
- Addition of a console message on «Login» page returns (detection of the source of abnormal disconnection),
- The «Leap second» is visible on the «home» page,
- Possibility to close all popups with the «Escape» key,
- User management: evolution of the characters allowed for the login / password: a-zA-Z0-9-\_.@
- Alarms are now classified by group,
- Alarms : unacknowledged alarms are no longer greyed out but marked with a pictogram ,
- Update : Kernel mainline 4.19.

#### Fixes / Problems resolved :

- No PTP Slave synchronisation for all Unicast profiles,
- PPS: Incorrect pulse duration if a value greater than 800 ms is set,
- PPS: the values of the PPS parameters are changed after GNSS activation,
- SNMP Agent: query problem for the «syncCurrentSource» variable if Netsilon is synchronised in GNSS,
- MIB : «trapSyncGPS1Alert» become «trapSyncSatReceiverAlert»,
- GNSS : the «Position reset» box is accessible and not greyed out by default when «Time mode» is disabled,
- The year and time of the «Next leap second» are wrong on the «home» page,
- User management: correction of the length for user name and password.

# RELEASE NOTES

## NETSILON

Last version

# V1.1E07

12/2023



## ANNEX 1 \_ NETSILON OPEN-SOURCE SOFTWARE PACKAGES

Package	Version	Commentaires
kernel	5.4.107	
bind	9.11.28	Dependency dhcp
libxml2	2.9.10	Dependency php
zlib-ng	1.9.9-b1	Dependency php
libopenssl	1.1.1k	Patched CVE-2021-3711 and CVE2021-3712
readline	8.1	Dependency quagga
ncurses	6.1	Dependency readline
busybox	1.33.0	
i2c-tools	4.2	
ifenslave	2.9	
iproute2	5.7.0	
iptables	1.8.6	
iputils	20210202	
less	563	For the command « helpcli »
linux-pam	1.5.1	
flex	2.6.4	Dependency pam
ntp	4.2.8p15	
libevent	2.1.12	Dependency ntp
pps-tools	e2b25049...	
util-linux	2.36.1	
pcre2	10.35	Dependency php
bzip2	1.0.8	
dhcp	4.4.2	
dhcpdump	1.8	
libpcap	1.10.0	Dependency dhcpdump
libnl	3.5.0	
ethtool	5.10	

RELEASE  
NOTES

## NETSILON

Last version

V1.1E07

12/2023

**Bodet**



# RELEASE NOTES

## NETSILON

Last version

# V1.1E07

12/2023



>> [www.bodet-time.com](http://www.bodet-time.com) <<

gnupg	1.4.23	
gpsd	3.20	
libusb	1.0.24	
libbsd	0.10.0	
libffi	3.3	Dependency libglib2
libglib2	2.66.8	Dependency syslog-ng
pcre	8.44	Dependency syslog-ng
libpam-radius-auth	2_0_0	
lighttpd	1.4.55	
logrotate	3.18.0	
popt	1.18	Dependency logrotate
msmtp	1.8.14	
netcat-openbsd	debian_1.195-2	
netsnmp	5.9	
nss-pam-ldapd	0.9.11	
openldap	2.4.57	
openssh	9.1p1	
pamtester	0.1.2	
php	7.4.16	
quagga	1.2.4	
syslog-ng	3.30.1	
tcpdump	4.99.0	
tzdata	2021a	
uboot-tools	2020.04	
wpa_supplicant	2.9	
xinetd	2.3.15	
zip	3.0	
Getty	> busybox	
netstat	> busybox	