

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

TABLE OF CONTENTS

UPDATE_V1.1F12_04/2025	2
UPDATE_V1.1E07_12/2023	3
UPDATE_V1.1E05_07/2023	3
UPDATE_V1.1D01_11/2022	3
UPDATE_V1.1C06_02/2022	4
UPDATE_V1.1C05_04/2021	5
UPDATE_V1.1C04_12/2020	5
UPDATE_V1.1C03_11/2020	5
UPDATE_V1.1C02_10/2020	6
UPDATE_V1.1C01_11/2019	7
ANNEX 1 _ NETSILON OPEN-SOURCE SOFTWARE PACKAGES	8

RELEASE NOTES

NETSILON

Last version

V1.1F12

04/2025



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Ref.: 608602G 04/25

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UPDATE_V1.1F12_04/2025

NETSILON :

Enhancements :

- Distribution :
 - management of the ASCII option card,
 - a network option card (RJ45 or SFP) can be installed in slot C (2 option cards maximum per server).
- Synchronisation :
 - added «Secure boot GNSS» function (Netsilon 7).
- Update :
 - OCX0 V3.42 firmware (Netsilon 9 and Netsilon 11),
 - mainline core 6.6.,
 - Open-source software packages (see annex 1).

RELEASE NOTES

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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.

RELEASE NOTES

NETSILON

Last version

V1.1F12

04/2025

Bodet

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».

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NETSILON

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V1.1F12

04/2025





RELEASE NOTES

NETSILON

Last version

V1.1F12

04/2025

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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

V1.1F12

04/2025



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

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Last version

V1.1F12

04/2025

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ANNEX 1 _ NETSILON OPEN-SOURCE SOFTWARE PACKAGES

Package	Version	Comments
kernel	6.6.32	
bind	9.16.48	Dependency php
libxml2	2.12.6	Dependency php
zlib-ng	2.1.3	Dependency php
libopenssl	3.2.1	Patched CVE-2021-3711 and CVE2021-3712
readline	8.2	Dependency quagga
ncurses	6.4-20230603	Dependency readline
busybox	1.36.1	
i2c-tools	4.3	
ifenslave	2.9	
iproute2	6.7.0	
iptables	1.8.9	
iputils	20240117	
less	643	For the command « helpcli »
linux-pam	1.6.0	
flex	2.6.4	Dependency pam
ntp	4.2.8p18	
libevent	2.1.12	Dependency ntp
pps-tools	1.0.3	
util-linux	2.39.3	
pcre2	10.42	Dependency php, syslog-ng
bzip2	1.0.8	
dhcp	4.4.3-P1	
dhcpcdump	1.8	
libpcap	1.10.4	Dependency dhcpcdump
libnl	3.9.0	
ethtool	6.6	

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04/2025



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gnupg	1.4.23	
gpsd	3.25	
libusb	1.0.26	
libbsd	0.11.7	
libffi	3.4.4	Dependency libglib2
libglib2	2.76.1	Dependency syslog-ng
libpam-radius-auth	2_0_0	
lighttpd	1.4.73	
logrotate	3.21.0	
popt	1.19	Dependency logrotate
msmtp	1.8.25	
netcat-openbsd	1.218	
netsnmp	5.9.3	
nss-pam-ldapd	0.9.12	
openldap	2.5.16	
openssh	9.8p1	
pamtester	0.1.2	
php	7.4.33	
quagga	1.2.4	
syslog-ng	4.3.1	
tcpdump	4.99.4	
tzdata	2024a	
uboot-tools	2021.07	
xinetd	2.3.15	
zip	3.0	
Getty	> busybox	
netstat	> busybox	