



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

Table of Contents

1	Installation.....	3
1.1	REST API Version	3
1.2	Bundled Robotic Code.....	3
1.3	Bundled Expansion Code	3
1.4	Third Party Codes.....	3
1.5	Programming instructions	5
2	Special Notes.....	5
3	Release Status.....	7
3.1	Changes since Release NxV1	7
3.1.1	Customer change requests	7
3.1.2	Resolved Issues.....	7
3.1.3	Implemented Stories	8
3.2	Changes since Release NxU1	9
3.2.1	Customer change requests	9
3.2.2	Resolved Issues.....	9
3.2.3	Implemented Stories	10
3.3	Changes since Release Unknown	10
3.3.1	Resolved Issues.....	10



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

1 Installation

1.1 REST API Version

Version: 1.1.22

1.2 Bundled Robotic Code

Version: 2.03

1.3 Bundled Expansion Code

Version unknown

1.4 Third Party Codes

Component	Package (Version)	Open Source License Agreement
Agent++	4.6.0	Apache
base-passwd	3.5.20-r1.1	GPL
bash	4.3.27	GPL
bind - dig	9.11.10	Mozilla Public License v2
busybox	1.37.0	GPLv2
ccid	1.4.33	GPLv2.1 or later
console-tools	0.3.2-r4.1	GPL
cron	3.0pl1-r8.1	Mozilla Public License v2
dhcp	4.4.1	Mozilla Public License
dosfstools	2.11-r0.1	GPL
dropbear	2018.76	MIT
e2fsprogs	1.41.5-r1.1	GPL
eglibc	2.10-r6.2.1	LGPL
ethtool	2.6.36	GPLv2
expat	2.6.2	MIT
fbset	2.1	GPL
fping	4.2	Custom (BSD like)
gsoap	2.7.10	GPLv2
hdparm	9.15-r0.1	BSD
ifplugd	0.28	GPLv2+
iproute2	2.6.29+r0+gitrf0309aa493d966f0b32a21a28d9fd156f4c41860-r0.1	GPL
iputils	20071127-r1.1	GPLv2
jquery	1.8.3	MIT



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

libdaemon	0.14	LGPL
libestr	0.1.11	LGPLv2.1+
libfastjson	0.99.9	MIT
libpcap	1.0.0-r6.1	BSD
libpcre	8.43	BSD
libusb	1.0.19	LGPL
libxml2	2.9.12	MIT
libxslt	1.1.34	MIT
lighttpd	1.4.76	BSD
linux	3.8.6	GPL
lrzsz	0.12.20-r4.1	GPL
lsscsi	0.24b1-r0.1	GPL
makedevs	none	GPL
mtd-utils	1.3.1-r0.1	GPLv2
mtx	1.3.12-r1.1	GPL
ncurses	5.4-r19.1	MIT
net-tools	1.60-r3.1	GPL
netbase	4.21-r36.1	GPL
ntfs-3g_ntfsprogs	2011.4.12	GPL
ntp	4.2.8p18	ntp
openldap	2.5.19	OpenLDAP
openssl	3.0.16	openssl
openftp	1.65	GPLv2
pciutils	3.1.2-r5.1	GPLv2
pcsc-lite	1.9.0	ISC
perl	5.8.8-r28.1	Artistic GPL
php-qr-code	5.0.1	MIT
php8	8.4.5	PHP
portmap	6.0-r4.1	Sun RPC, BSD
procps	3.2.7-r9.1	GPL
pugixml	1.8	MIT
python	2.7.16	PSF
qt-webkit-kiosk	1.99.10	LGPL
qt4-embedded	4.8.7	LGPLv2.1
rsyslog	8.2406.0	GPLv3
sg3-utils	1.24	GPLv2
slimframework	3.12.3	MIT
SNMP++	3.5.0	MIT-like
SQLiteCpp	2.4.0	MIT
sqlite3	3.29.0	Public Domain
tftp-hpa	5.2	BSD Revised
tslib	none	LGPL
u-boot	1.14	GPL2 or later



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

udev	141-r21.1	GPL
unzip	6.00	Info-ZIP
zeroconf	0.9-r2.1	GPL
zip	3.0	Info-ZIP
zlib	1.3.1	zlib

1.5 Programming instructions

Use remote management interface (Maintenance, Software upgrade, Firmware) for uploading .fbi image and upgrading Library stack (expansion module will be automatically upgraded together with base module if already connected and discovered).

2 Special Notes



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

3 Release Status

3.1 Changes since Release NxV1

3.1.1 Customer change requests

Number	Customer DDT	Description	Workaround	Root cause	Solution	Severity	Code Rev.
9698	-	change DB default for SMTP Domain at the moment all have not owned domain per default	-	-	Default SMTP domain name changed to multistak.local	Moderate	3.30

3.1.2 Resolved Issues

Number	Customer DDT	Description	Workaround	Root cause	Solution	Severity	Code Rev.
7495	-	mib Syntax Error bdtDeviceStatAct	-	-	1. FIX\IMPROVEMENT DESCRIPTION: name correct to meet syntax requirements 2. VERIFICATION PROCEDURE: use latest mib file to check names.	Moderate	3.30
9608	-	Wrong information for driveless partition in system log	-	Driveless partition was handled as normal partitions in system log	Check for Driveless partition in log file processing and set N/A for non relevant fields	Moderate	3.30
9715	-	Event 4000 "Drive canister fan speed is too slow" reported incorrectly	-	Different fan models populated on FH sADT sleds	1. FIX\IMPROVEMENT DESCRIPTION: Disabled drive sled fan check for FH sADT sleds 2. VERIFICATION PROCEDURE: Use LTO10 drives to test that drive fan alerts not reported anymore.	Moderate	3.30
9723	-	Improve Motor Control for Calibration Routine	-	-	1. FIX\IMPROVEMENT DESCRIPTION: Added gripper hold current during calibration.	Moderate	3.30



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

					<p>Added additional gripper homing before scan.</p> <p>2. VERIFICATION PROCEDURE:</p> <p>Can be verified by running robotics test in production (where they saw issues).</p>		
--	--	--	--	--	--	--	--

3.1.3 Implemented Stories

Number	Customer DDT	Description	Severity	Code Rev.
9676	-	Analyse and improve Move to drive	Moderate	3.30



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

3.2 Changes since Release NxU1

3.2.1 Customer change requests

Number	Customer DDT	Description	Workaround	Root cause	Solution	Severity	Code Rev.
9698	-	change DB default for SMTP Domain at the moment all have not owned domain per default	-	-	Default SMTP domain name changed to multistak.local	Moderate	NxV1

3.2.2 Resolved Issues

Number	Customer DDT	Description	Workaround	Root cause	Solution	Severity	Code Rev.
7495	-	mib Syntax Error bdtDeviceStatAct	-	-	1. FIX\IMPROVEMENT DESCRIPTION: name correct to meet syntax requirements 2. VERIFICATION PROCEDURE: use latest mib file to check names.	Moderate	NxV1
9608	-	Wrong information for driveless partition in system log	-	Driveless partition was handled as normal partitions in system log	Check for Driveless partition in log file processing and set N/A for non relevant fields	Moderate	NxV1
9715	-	Event 4000 "Drive canister fan speed is too slow" reported incorrectly	-	Different fan models populated on FH sADT sleds	1. FIX\IMPROVEMENT DESCRIPTION: Disabled drive sled fan check for FH sADT sleds 2. VERIFICATION PROCEDURE: Use LTO10 drives to test that drive fan alerts not reported anymore.	Moderate	NxV1
9723	-	Improve Motor Control for Calibration Routine	-	-	1. FIX\IMPROVEMENT DESCRIPTION: Added gripper hold current during calibration. Added additional gripper homing before scan.	Moderate	NxV1



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

					2. VERIFICATION PROCEDURE: Can be verified by running robotics test in production (where they saw issues).		
--	--	--	--	--	---	--	--

3.2.3 Implemented Stories

Number	Customer DDT	Description	Severity	Code Rev.
9676	-	Analyse and improve Move to drive	Moderate	NxV1

3.3 Changes since Release Unknown

3.3.1 Resolved Issues

Number	Customer DDT	Description	Workaround	Root cause	Solution	Severity	Code Rev.
9118	-	Robotic move counter invalid in database	-	integrated fix for DDT 9117 from Multistor	1. FIX\IMPROVEMENT DESCRIPTION: Please note down the changes here. Keep in mind that the content will be included in the customer release notes! 2. VERIFICATION PROCEDURE: Please describe in steps what has to be done to verify the change. (remove if nothing helpful to add!)	Moderate	NxU1
9661	Ticket#7434 > Ticket#7436 27	CHASSIS_CALIBRATION_DATA_M ISMATCH checks for wrong parameters	-	The implementation only removed the last 2 characters, not the 2 values	1. FIX\IMPROVEMENT DESCRIPTION: The implementation only removed the last 2 characters, not the 2 values. So I added a function to remove the values 2. VERIFICATION PROCEDURE: Please describe in steps what has to	Moderate	NxU1



Firmware Release Notes

Project	Previous Release	Release	Author	Date
Multistak	NxV1	3.30	Marc Widera	01/20/2026

					be done to verify the change. (remove if nothing helpful to add!)		
--	--	--	--	--	--	--	--