

List of services available with ESIA Unity

Service names

The naming of services within Esia Unity follows a certain pattern: <méthode de connexion>_<protocole>_<plateforme>_<service testé>

For example :

GESA_SNMP_WINDOWS_STORAGE

- GESA: test via the ESIA Unity box.
- SNMP: uses the SNMP protocol.
- WINDOWS: for all Windows OS.
- STORAGE: tests the storage space used on a drive.

Another example :

CHECK_HTTPS

- CHECK: test directly from the server
- HTTPS: if an HTTPS server is present

Basic tests

CHECK_ICMP

Tests the ping of a node. Also provides network latency information. This service is run from the server, so testing a local address such as 192.168.1.1 will not work. In this case, you need to use [GESA_ICMP](#).

Parameter	Description
-H <host>	The IP address or name of the host to be tested
-w <latences ms>,< % de paquet perdu>	Indicates the alert threshold in ms and in % of lost packets
-c <latences ms>,< % de paquet perdu>	Indicates the critical threshold in ms and in % of packets lost

Example:

```
-H google.be -w 200,50 -c 300,100
```

Output :

```
OK - google.be: rta 28,629ms, lost 0%|rta=28,629ms;200,000;300,000;0;
pl=0%;40;80;;;rtmax=28,742ms;;; rtmin=28,473ms;;;;
```

GESA_ICMP

Tests via a Unity box whether the node responds to the ping. Also provides network latency.

Parameter	Description
-H <host>	Host name (default \$NRPE_HOST)
-p <port nrpe>	nrpe port (default 5666)
-u	If there is a connection error to the Unity box, this returns the status unknown.
-t 50	Timeout (in this case 50 seconds)
-c <nom du service>	Name of the service to be tested
-a <liste des arguments>	List of check_icmp arguments
\$IP	IP address of the host under test (default \$IP)
200,50 %	Alert threshold: 200ms latency and 50% loss
500,100 %	500ms latency and 100% loss

Example:

```
-H saloc.no-ip.info -p 5666 -u -t 50 -c check_icmp -a 10.7.0.9 200,50%
500,100%
```

Output :

```
OK - 10.7.0.9: rta 0.826ms, lost 0%|rta=0.826ms;200.000;500.000;0;
pl=0%;50;100;;;rtmax=0.987ms;;; rtmin=0.730ms;;;;
```

NAS tests

Synology

GESA_SNMP_SYNOLOGY

Test the health of a Synology NAS (SYNOLOGY-MIB compatible) using a Unity box.

This plugin retrieves and checks :

- The model, serial number and system name are displayed.
- Display of the system version
- General system status (power supply, fan, etc.)
- System temperature
- CPU temperature

- Disk status (model, capacity, smart status and temperature)
- RAID volume status

Parameter	Description
-H <host>	Host name (default \$NRPE_HOST)
-p <port nrpe>	nrpe port (default 5666)
-u	If there is a connection error to the Unity box, this returns the status unknown.
-t 50	Timeout (in this case 50 seconds)
-c check_snmp_synology	Name of the service to be tested
-a <liste des arguments>	List of check_icmp arguments
\$IP	IP address of the host under test (default \$IP)
\$SNMP_COM	SNMP community

Example:

```
-H saloc.no-ip.info -p 5666 -u -t 50 -c check_snmp_synology -a 192.168.1.22 public 50 70
```

Output :

```
Synology model: "RS814+"
Synology s/n: "14B0MAN597000"
DSM Version: "DSM 5.1-5022"
System Status: Normal
Power Status: Normal
System Fan Status: Normal
CPU Fan Status: Normal
Number of disks: 4
"Disk 1" (model: "WD10EZEX-00RKKAA0 ") status:Normal temperature:24 C
"Disk 2" (model: "WD10EZEX-00RKKAA0 ") status:Normal temperature:25 C
"Disk 3" (model: "ST1000DM003-1CH162 ") status:Normal temperature:24 C
"Disk 4" (model: "ST1000DM003-1CH162 ") status:Normal temperature:23 C
Number of RAID volume: 1
"Volume 1" status:Normal
OK - Synology "RS814+" (s/n: "14B0MAN597000", "DSM 5.1-5022") is in good health
```

GESA_SNMP_SYNOLOGY_UPS

Tests, via a Unity box, the health of a UPS compatible with Synology NAS (see manufacturer's documentation). The Synology UPS server must be activated.

This plugin retrieves and checks :

- The model, serial number and manufacturer of the UPS.
- The load on the UPS
- The % of electricity remaining in the batteries

Parameter	Description
-H <host>	Host name (default \$NRPE_HOST)
-p <port nrpe>	nrpe port (default 5666)
-u	If there is a connection error to the Unity box, this returns the status unknown.
-t 50	Timeout (in this case 50 seconds)
-c check_snmp_synology	Name of the service to be tested
-a <liste des arguments>	List of check_icmp arguments
\$IP	IP address of the host under test (default \$IP)
\$SNMP_COM	SNMP community
70	% battery remaining threshold before generating an alert
40	battery remaining threshold before generating a critical alert
40	% UPS charging alert threshold
50	critical alert threshold for UPS load

Example:

```
-H saloc.no-ip.info -p 5666 -u -t 50 -c check_snmp_synology_ups -a 192.168.1.22 public 70 40 40 50
```

Output :

```
Manufacturer: APC Model: Back-UPS ES 700G SN: 5B1447T01285
OK: UPS load: 5% < 50%
OK: Battery type: PbAc charge: 100 % > 70%
```

QNAP

GESA_SNMP_QNAP_HEALTH

Tests the health of a QNAP NAS (QNAP NAS-MIB compatible) using a Unity box.

This plugin retrieves and checks :

- Display of the model and system name
- System temperature
- CPU temperature
- Disk status (model, capacity, smart status and temperature)
- RAID volume status

Parameter	Description
-H <host>	Host name (default \$NRPE_HOST)
-p <port nrpe>	nrpe port (default 5666)
-u	If there is a connection error to the Unity box, this returns the status.
-t 50	Timeout (in this case 50 seconds)
-c check_snmp_synology	Name of the service to be tested

Parameter	Description
-a <liste des arguments>	List of check_icmp arguments
\$IP	IP address of the host under test (default \$IP)
\$SNMP_COM	SNMP community
50	The system alert temperature.
70	Critical system temperature.

Example:

```
-H saloc.no-ip.info -p 5666 -u -t 50 -c check_snmp_qnap_health -a
192.168.1.22 public 50 70
```

Output :

```
Model: HS-210 Hostname: NASDF8958
OK: System temperature: 43 C/109 F < 50 C
OK: CPU temperature: noInfo
OK: DISK 1 : HDD1 (Model: ST1000DM003-1CH1 Capacity: 931.51 GB) status is:
ready (SMART:GOOD) . Temperature is 39 C/102 F
OK: DISK 2 : HDD1 (Model: ST1000DM003-1CH1 Capacity: 931.51 GB) status is:
ready (SMART:GOOD) . Temperature is 40 C/104 F
WARNING: Volume 1 software raid status is Rebuilding.
```

GESA_SNMP_QNAP_STORAGE

Uses a Unity box to test the disk space available on the various volumes of a QNAP NAS.

This plugin retrieves and checks:

- Remaining disk space
- Used space
- Total space
- Partition type

Parameter	Description
-H <host>	Host name (default \$NRPE_HOST)
-p <port nrpe>	nrpe port (default 5666)
-u	If there is a connection error to the Unity box, this returns the status unknown.
-t 50	Timeout (in this case 50 seconds)
-c check_snmp_synology	Name of the service to be tested
-a <liste des arguments>	List of check_icmp arguments
\$IP	IP address of the host under test (default \$IP)
\$SNMP_COM	SNMP community
80	The alert threshold in % of disk space used.
90	The critical threshold in % of disk space used.

Example:

```
-H saloc.no-ip.info -p 5666 -u -t 50 -c check_snmp_qnap_storage -a 192.168.1.22 public 80 90
```

Output :

```
OK: Volume 1 : [Single Disk Volume: Drive 1] (EXT4) used 22.84% (209.07 GB/915.42 GB) < 80
```

Printer tests

GESA_SNMP_PRINTER

Tests the general status of an SNMP MIB-compatible printer via a Unity box.

This plugin retrieves and checks :

- Printer status (paper jam, cover open, out of paper, etc)
- Its system description (model, SN, etc)
- The status of each consumable

Parameter	Description
-H <host>	Host name (default \$NRPE_HOST)
-p <port nrpe>	nrpe port (default 5666)
-u	If there is a connection error to the Unity box, this returns the status unknown.
-t 50	Timeout (in this case 50 seconds)
-c check_snmp_synology	Name of the service to be tested
-a <liste des arguments>	List of check_icmp arguments
\$IP	IP address of the host under test (default \$IP)
\$SNMP_COM	SNMP community
20	The alert threshold in % remaining of the consumable level.
10	The critical threshold in % of the remaining level of consumables.

Example:

```
-H saloc.no-ip.info -p 5666 -u -t 50 -c check_snmp_printer -a 192.168.1.22 public 20 10
```

Output :

```
Printer is OK
Description: HP ETHERNET MULTI-ENVIRONMENT,SN:CND8FBTBLB, FN:SF45SDW,SVCID:24014,PID:HP LaserJet 400 colorMFP M475dw
CRITICAL : 2. Description: Cyan Cartridge HP CE411A (cyan) State: 3% <= 10%
OK : 3. Description: Magenta Cartridge HP CE413A (magenta) State: 99%
OK : 1. Description: Black Cartridge HP CE410X (black) State: 72%
```

CRITICAL : 4. Description: Yellow Cartridge HP CE412A (yellow) State: 3% <= 10%

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Last update: **2023/11/09 18:27**

