

# SNAG-View 3.5

Neues in der Version vNext

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# Zu den Personen

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- OTRS
- Anwendungsentwickler
- I-doit
- DynamicMap

# Architektur - Frameworks

- Silex (Sensiolabs)
  - PHP-Microframework auf Basis von Symfony
- Symfony2
  - MVC-Framework auf PHP-Basis
- Neue DB-Abstraktion Doctrine
  - Objektrelationale Abb. (ORM) für PHP

# Architektur - Redis

- In-Memory-Datenbank
- Cache, Message Broker
- Einfache Schlüssel-Werte-Datenstruktur
- NoSQL-Datenbank
- Redis
  - [redis.io](http://redis.io)

# Architektur – PHP-Resque

- Redis-Backend-Bibliothek
- Worker mit PHP-Resque
  - Chris Boulton
- Basiert auf Resque
  - Ruby (Github)
- Queues auf einem Redis-Server / Worker
- Erledigung von Hintergrundaufgaben
- Theoretisch beliebige Anzahl von Workern möglich

# Architektur - Backend

- Abschaffung des 'einen' Backendprozesses

The screenshot displays the Nagios Servicebrowser interface. At the top, there are status indicators for Hosts (4 green, 0 red, 0 yellow, 41 grey) and Services (4 green, 0 red, 0 yellow, 2 orange, 378 grey). The main table lists services for three hosts: clihble1, dagobert29, and daisy16. Each host has several services, including PING tests and system metrics like WIN\_CPU and WIN\_Festplatten. The status of these services is mostly 'Pending'. A dialog box titled 'Serverseitiger Fehler' (Server-side error) is overlaid on the table, containing the text: 'Es trat ein Fehler mit Nachricht ermittelt. Leider ist keine genauere Debuginformation...'. A large red 'X' is drawn over the dialog box.

Hoststatus	Hostname	Bezeichnung	Status	Letzter Check	Dauer	Checker...	Ausgabe
Up	clihble1	PING 1	Pending		0s	0 / 5	
		PING 2	Pending		0s	0 / 5	
		PING 3	Pending		0s	0 / 5	
		PING 4	Pending		0s	0 / 5	
		WIN_CPU	Server	03.04.2013 14:23:09	21s	0 / 5	
		WIN_CPU 2	Pending		0s	0 / 5	
		WIN_Festplatten	Server	03.04.2013 14:23:09	21s	0 / 5	
		WIN_Festplatten 2	Pending		0s	0 / 5	
Pending	dagobert29	PING 1	Pending		0s	0 / 5	
		PING 2	Pending		0s	0 / 5	
		PING 3	Pending		0s	0 / 5	
		PING 4	Pending		0s	0 / 5	
		WIN_CPU	Pending		15798d 12h 4...	1 / 5	
		WIN_CPU 2	Pending		0s	0 / 5	
		WIN_Festplatten	Pending		15798d 12h 4...	1 / 5	
		WIN_Festplatten 2	Pending		0s	0 / 5	
Pending	daisy16	PING 1	Pending		0s	0 / 5	
		PING 2	Pending		0s	0 / 5	

# Datenmodell

- Alle Konfigurationsdaten werden zur Laufzeit live vererbt
- Ständiger Export
  - Läuft im Hintergrund nach Konfigurationsänderungen
- Wegfall des Flaschenhals Backends
  - Wird nicht mehr benötigt, da die Vererbung live berechnet werden kann

# Prozesse / Dienste

- Kaum noch Restart des Backends
  - Updates funktionieren nun nahezu ohne Downtimes
  - Update der DS im Hintergrund möglich
- Backendprozess reagiert parallel auf Anfragen
  - Antwortzeiten wachsen ggf. bei Last
- Verbesserte Init-Skripte
  - Weniger Dienste



# Commandline-Tools

```
# sv nagios:export -live
```

```
# svadmin job:status
```

```
# svcli entity:get -svid=_ZZS
```

```
# svcli entity:get \  
  --uuid=fd840b4a-3019-5142-8b9d-d20e1acb355d
```

# Commandline-Tools

```
# svctl status
```

```
# svdebug logs
```

```
# svmap thumbnailler -start
```

```
# svmigrate schema:update
```

# Commandline-Tools

```
# svmon queue:jobs
```

```
OK - there are currently 0 jobs queued
```

```
# svmon queue:notification
```

```
OK - there are currently 0 notifications queued
```

```
# svmon queue:uncached
```

```
OK - there are currently 0 entities uncached
```

# Public API(s)

- Erstmals Public REST APIs
- Version 1
- API-Dokumentation Swagger / RAML
- Monitoring Object API (Read/Write)
- Status API (Read)
- SNAG-View Client
  - Verwendet die neue Public API

# SNAG-View Client











# SNAG-View Client

0 DOWN   0 UNREACHABLE   0 CRITICAL   0 WARNING   0 UNKNOWN

SNAG-View Client - ProblemBrowser

## Server: SEC-LX-SNAGVIEW

Icon	Label	I...	Status ▾	Last Check	Duration	Attempt	Plugin Output
	<b>sec-test-01</b>		<b>DOWN</b>	17.01.1970 17:37:25	7d 5h 32m 12s	3 / 3	CRITICAL - 192.168.16.101: H...
	sec-test-01 - ALL DATAFILES	↕	WARNING	17.01.1970 17:19:46	342d 21h 5m 32s	1 / 5	WARNING - ALL DATAFILES i...
	sec-test-01 - CACHE	↕	WARNING	17.01.1970 17:19:46	111d 9h 32m 12s	1 / 5	WARNING - CACHE is 83
	sec-test-01 - CONNECT	↕	WARNING	17.01.1970 17:19:46	111d 9h 32m 12s	1 / 5	WARNING - CONNECT is 87
	sec-test-01 - LOGONS CURRENT	↕	WARNING	17.01.1970 17:19:46	111d 9h 32m 12s	1 / 5	WARNING - LOGONS CURR...
	sec-test-01 - OFFLINE DATAFILES	↕	WARNING	17.01.1970 17:19:46	111d 9h 32m 12s	1 / 5	WARNING - OFFLINE DATAF...
	sec-test-01 - SWAP	↕	WARNING	17.01.1970 17:19:46	111d 9h 32m 12s	1 / 5	WARNING - SWAP is 88
	sec-test-01 - USERS	↕	WARNING	17.01.1970 17:19:46	111d 9h 32m 12s	1 / 5	WARNING - USERS is 86

## Server: SEC-LX-SNAGVIEW-STAGE1


```
# curl -k https://IP/api/object/v1/host?authtoken=TEST
```

```
{
  "hosts" :
  [
    {
      "label" : "SNAGView",
      "_links" : {
        "self" : "https://IP/api/object/v1/host/fd840b4a.."
      },
      "uuid" : "fd840b4a-3019-5142-8b9d-d20e1acb355d",
      "type" : "sv_host"
    }
  ]
}
```

```
# curl -k https://IP/api/object/v1/host/fd840b4a-...?authtoken=TEST
{
  ...
  "_links" : {
    ...
    "self" : "https://172.16.10.103/api/object/v1/host/fd840b4a...",
    "hostgroup" :
"http://IP/api/object/v1/host/fd840b4a.../hostgroup",
    ...
  },
  "uuid" : "fd840b4a-3019-5142-8b9d-d20e1acb355d",
  "customVariables" : [],
  "address" : "127.0.0.1",
  ...
  "alias" : "SNAG-View-Server",
  "name" : "SNAGView",
  "notes" : null
}
```



# Features



SNAG-View 3.5.0dev.2600 (3d54be4) - Login

SNAG VIEW

Login Type: SNAG-View (lokal) ▼

Username: svadmin

Password: .....

remember me:

Sign in



# Features



SNAG VIEW  
Login Type: SNAG-View (lokal)  
Username: svadmin  
Password: \*\*\*\*\*  
remember me:   
Sign in

# Features

Show 1 - 5 from 5

100%

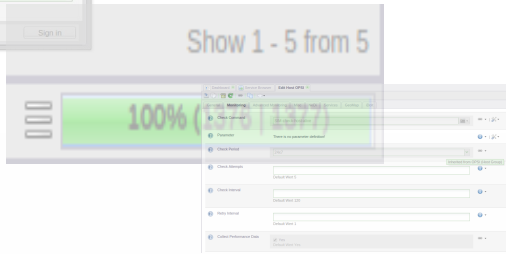
Dashboard Service Browser Edit Host OPSI

General **Monitoring** Advanced Monitoring Misc NeDi Services GeoMap iDolt

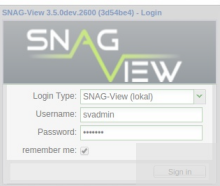
Check Command	SIM-check-host-alive	
Parameter	There is no parameter definition!	
Check Period	24x7	
Check Attempts	<input type="text"/> Default Wert 5	Inherited from OPSI (Host Group)
Check Interval	<input type="text"/> Default Wert 120	
Retry Interval	<input type="text"/> Default Wert 1	
Collect Performance Data	<input checked="" type="checkbox"/> Yes Default Wert Yes	



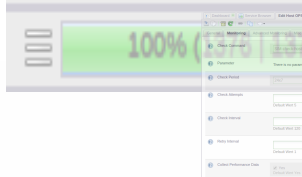
# Features



A mobile menu overlay with a dark header. The header contains a green circle icon, the time "04:41:52", the date "11.09.2015", and a person icon. The menu items are: "Reload" with a refresh icon, "Execute full synchronisation" with a magnifying glass icon, "nagios" with a green circle icon and a right-pointing arrow, and "Eventlog" with a green circle icon and a right-pointing arrow. The "nagios" item is highlighted with a green background.



Show 1 - 5 from 5



# Features

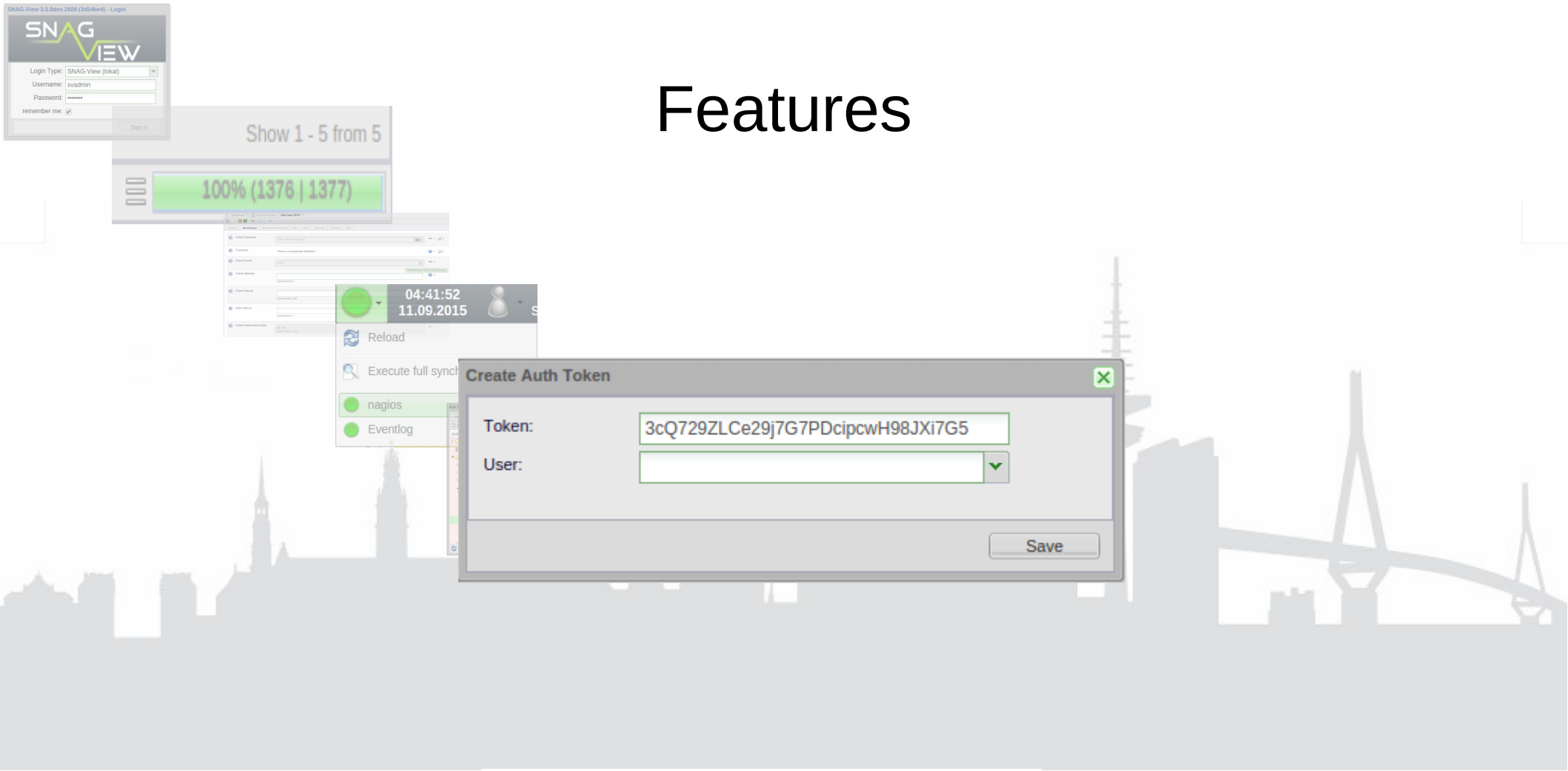
**Edit Role: simple**

General **Basic Rights**

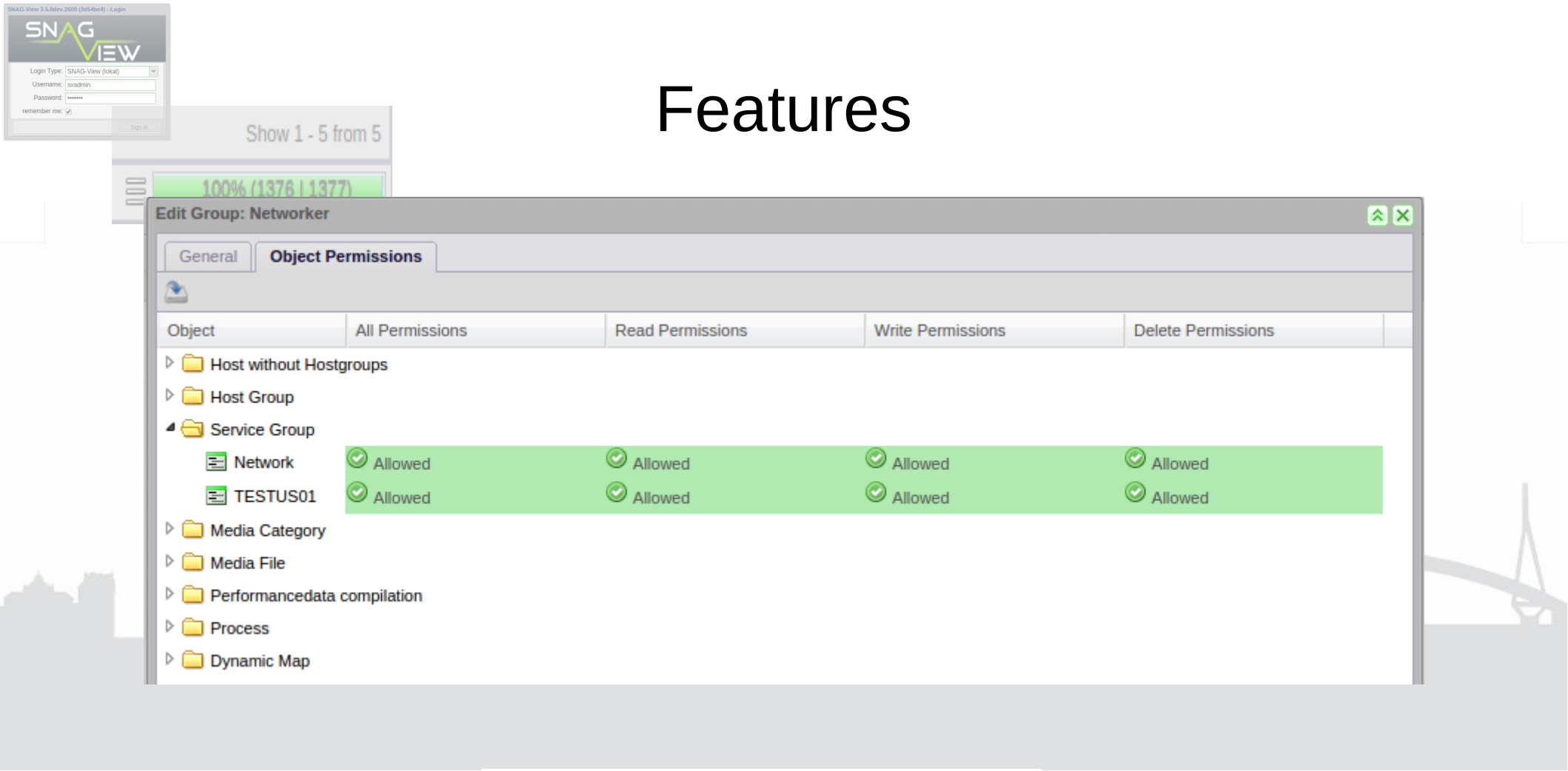
Permissions can not be edited. Filter expression

Authorization	Status
▶ SPECIAL	Forbidden (Not Set)
☰ SUPERUSER	Forbidden (Not Set)
▶ SV	Forbidden (Not Set)
▶ SV::CORE	Forbidden (Not Set)
▶ SV::GUI	Forbidden (Not Set)
▶ SV::MODULES	Forbidden (Not Set)
▶ SV::OBJECTS	Forbidden (Not Set)
▶ SV::OBJECTS::ALTER	Forbidden (Not Set)
▶ SV::OBJECTS::CREATE	Forbidden (Not Set)
▶ SV::OBJECTS::DELETE	Forbidden (Not Set)
☰ SV::OBJECTS::DISABLE_PERMISSIONS	Allowed
▶ SV::OBJECTS::READ	Forbidden (Not Set)
▶ SV::OBJECTS::UPDATE	Forbidden (Not Set)
▶ SV::SCHEDULER	Forbidden (Not Set)

# Features



# Features



SNAG VIEW  
Login Type: SNAG-View (lokal)  
Username: svadmin  
Password: \*\*\*\*\*  
remember me:

### Create Host

General | Monitoring | Advanced Monitoring | Misc | NeDi | Services | GeoMap | iDolt

**Host Name**  
Mandatory Field

**Alias**

**Address**  
Mandatory Field

**Host Group**

**Accept duplicate**

A sv\_host with the label >OPSI< already exists. Do you still want to use it?

Yes No



SNAG VIEW  
 Login Type: SNAG-View (lokal)  
 Username: svadmin  
 Password:   
 remember me:   
 Sign in

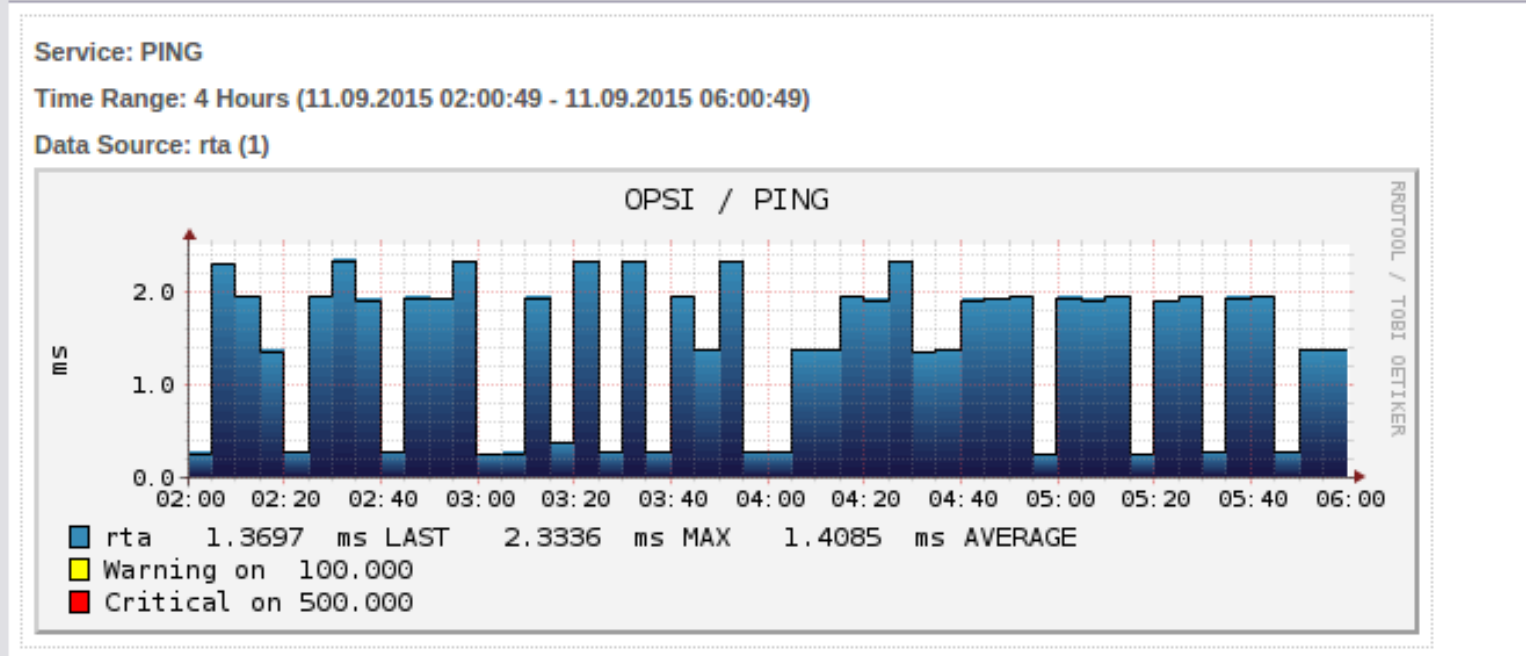
Show 1 - 5 from 5

- Informations
- Services
- Downtimes
- Comments
- Eventlog
- Business Process
- Availability
- Wiki
- Performance Daten

Daten Quellen

- CLIENT\_STATUS
- DISK\_USAGE
- PRODUCT\_STATUS
- WEBSERVICE
- PING
  - pl
  - rta
  - rtmax
  - rtmin

14



Device [dropdown] ~ [dropdown] Condition 1

[Device Icon]

[Device List: Device, Image, Main IP, Original IP, Serial#, Vendor]

[Feedback Icon] [Checkmark Icon]

250 [dropdown]

[Show] [Monitor] [Delete]

### Device Vendor

Vendor	Devices
Zyxel	1353
Accton	66
Extreme Networks	9
Other	6
Microsens	3

5 Vendor, Sort: Quantity

### Device Type

Type	Devices
<b>ZyXEL</b> MES-3728	372
<b>ZyXEL</b> IES-5005	225
<b>ZyXEL</b> VES1608FE-57	97
<b>ZyXEL</b> IES-5106	90
<b>ZyXEL</b> MES3500-24	74

5 Type, Sort: Quantity

# 'Alte' Module bis SV3.4

- Inventarisierung
  - NeDi (siehe NeDi4Nerds)
- Zentrale Importschnittstelle
  - Dezentraler Import in einzelnen Modulen (NeDi)
  - 'Einfacher' JSON-Import
- Automap
  - DynamicMap
  - D3.js (Data-Driven Documents)

# Migration SV3.4 – SV3.5

- SLES11SP3
- SV > 3.4.20
- Min. 50 GB für /var
- Snapshot

```
# snagview-installer.phar migrate
```

# Roadmap

- Beta 1 / 17.07.2015
- Beta 2 / 31.07.2015
- Beta 3 / 14.09.21015
- Beta 4 / 28.08.2015
- Beta 5 / 11.09.2015