

### What is StaseGovernor

StaseGovernor is a software that enables **customer-specific bandwidth provisioning** for operator's IP-networking services by controlling multiple Staselog Network Equalizers (devices).

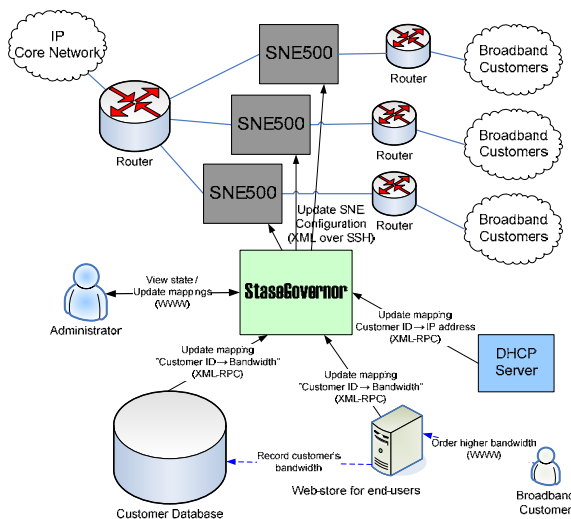
StaseGovernor 1.0 was specifically designed to work in situations when customers IP addresses are assigned dynamically and when IP-to-customer associations change rapidly.

StaseGovernor 2.0 adds the ability to use simple WWW-GUI to configure complex network-connections for network operator's **corporate customers**.

### Features

- Supports unlimited number of customers (100 000 rules / device)
- Each customer's bandwidth is freely adjustable.
- Ability to define guaranteed bandwidth **NEW in 2.0 !!!**
- Sub-band support for complex corporate customers **NEW in 2.0 !!!**
- Customer and device specific traffic statistics.

### Setup Example



### Control and Use

- StaseGovernor is controlled with following XML-RPC messages:
  1. Update "Customer – Connection Properties" association
  2. Update "IP – Customer" association
- Web-interface with user accounts for HelpDesk personnel **NEW in 2.0 !!!**

### Administrator Interface

#### Consumer Customers

**StaseGovernor**
Fri Mar 07 09:19:05 2008  
Status: Unknown

Summary
Status
Static customers
Users

Status

**Add new customer**

Search by IP address:

Previous 1 2 3 Next

Customer id	Pending			Current	
	Identifiers (SNEVLANIP)	Bandwidth (down/up) (Kbits)	Subflows	Identifiers (SNEVLANIP)	Bandwidth (down/up) (Kbits)
customer_1	Sne_1 : untagged : 192.168.0.0/32	min 1 / 1 max 512 / 2048	-	Sne_1 : untagged : 192.168.0.0/32	min 1 / 1 max 256 / 1024
customer_10	Sne_1 : untagged : 192.168.0.10/32 Sne_1 : untagged : 192.168.0.9/32	min 1 / 1 max 512 / 1024	-	Sne_1 : untagged : 192.168.0.9/32	min 1 / 1 max 512 / 1024
customer_100	Sne_1 : untagged : 192.168.0.108/32 Sne_1 : untagged : 192.168.0.109/32	min 1 / 1 max 1024 / 2048	-	-	-
customer_1000	Sne_1 : untagged : 192.168.4.74/32 Sne_1 : untagged : 192.168.4.75/32	min 1 / 1 max 2048 / 4096	-	-	-
customer_101	Sne_1 : untagged : 192.168.0.110/32	min 1 / 1 max 2048 / 8192	-	-	-
customer_102	Sne_1 : untagged : 192.168.0.111/32	min 1 / 1 max 2048 / 4096	-	-	-

#### Corporate Customers

**StaseGovernor**
Fri Mar 07 10:21:01 2008  
Status: Unknown

Summary
Status
Static customers
Users

Static customers

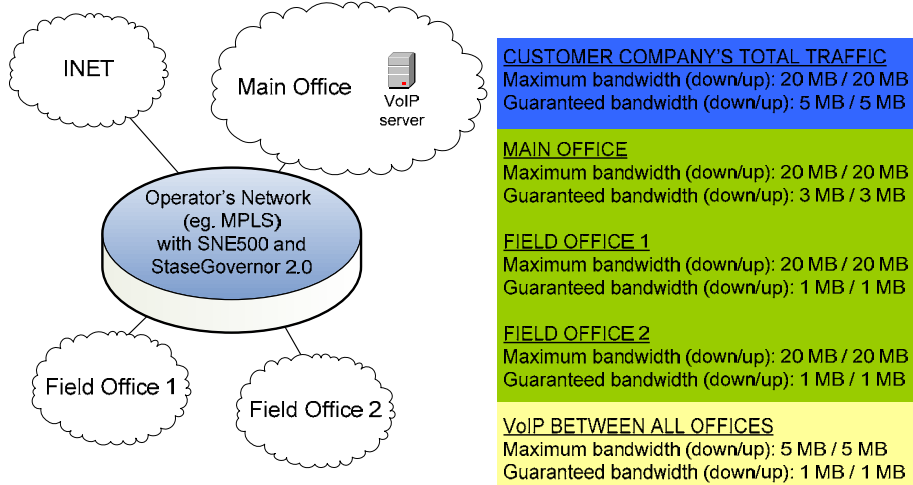
**Add new customer**

Previous 1 Next

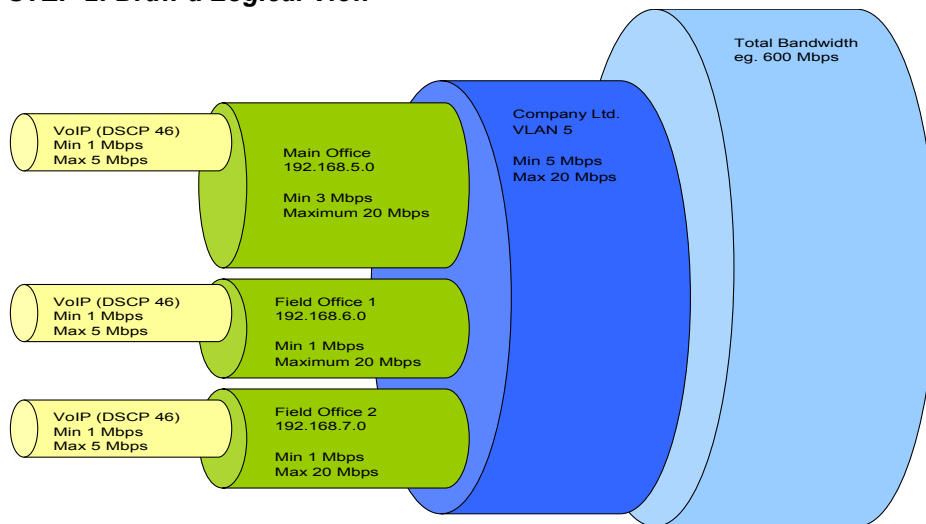
Customer id	Identifiers (SNEVLANIP)	Bandwidth (down/up) (Kbits)	Subband (SNEVLANIP)	Sub-subband (IP / TOS)	Last modified	
CorporationX	* : 1 : 0.0.0.0/0	min 30000 / 30000 max 80000 / 80000	* : 1 : 192.168.1.0/24 min 10000 / 10000 max 70000 / 70000	IP: 192.168.1.5 min 1000 / 1000 max 3000 / 3000 IP: 192.168.1.6 min 1000 / 1000 max 1000 / 1000 IP: 192.168.1.7 min 1000 / 1000 max 1000 / 1000	2008-03-07 09:54:56 - admin	<input type="button" value="edit"/> <input type="button" value="remove"/>
			auto : 1 : 192.168.2.0/24 min 1000 / 1000 max 10000 / 10000			

## Example 1: Provisioning a Corporate Customer with SG 2.0

### STEP 1: Get Provisioning Specification



### STEP 2: Draw a Logical View



### STEP 3: Input Data to StaseGovernor's GUI

**StaseGovernor**

Summary | Status | Static customers | Users

Customer id: CorporationY [Update]

XML-RPC Bandwidth (passive) / Static Bandwidth (active)

Type:  Shared /  No order

Minimum: Downstream 1 kbit/s, Upstream 1 kbit/s

Maximum: Downstream kbit/s, Upstream kbit/s

Identifiers table:

Status	Source	SNE	VLAN	IP	Mask	Over definable	
active	static	Sne_1	5	0.0.0.0	0	-	Remove
	static	auto					Add Static
	xmi-rpc	auto	untagged		32	-	Add XML-RPC

Subbands table:

Status	SNE	Vlan	IP	Mask	Minimum (down/up)	Maximum (down/up)	DSCP	Sub-subband
active	Sne_1	5	192.168.5.0	24	3000/3000	20000/20000	46	1000/1000 5000/5000
active	Sne_1	5	192.168.6.0	24	1000/1000	20000/20000	46	1000/1000 5000/5000
active	Sne_1	5	192.168.7.0	24	1000/1000	20000/20000	46	1000/1000 5000/5000

### STEP 4: You're Done

## Example 2: User Accounts for Help Desk

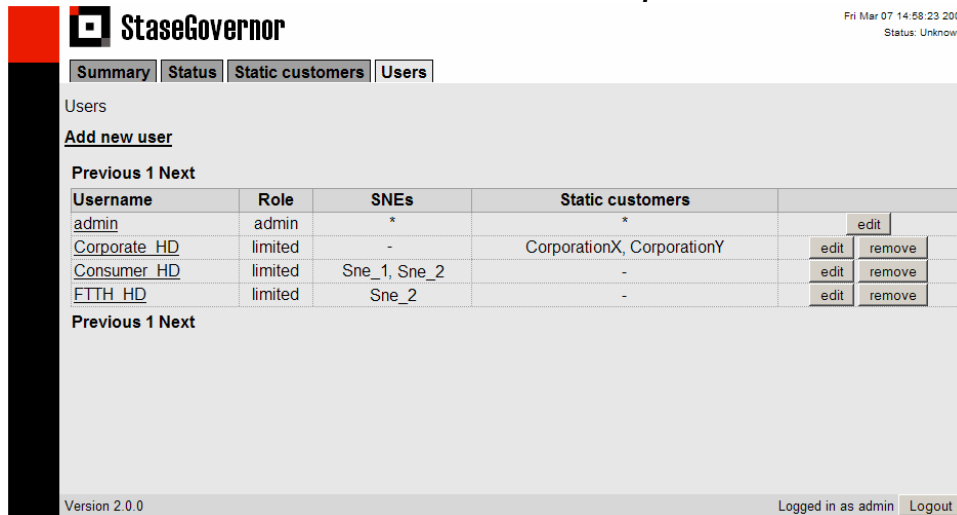
In this example, operator has 2 SNE devices: Both are used for bandwidth provisioning of consumer customers. Sne\_2 is dedicated for FTTH consumer traffic only. Sne\_1 is used also for corporate bandwidth provisioning.

Operator has 3 different groups of service personnel:

1. Group that handles corporate customer's requests
2. Group that handles consumer customer's requests
3. Group that handles only FTTH consumer customer's requests

Each group can have their own user account in StaseGovernor, with the appropriate restrictions.

### User Accounts in this Example



**StaseGovernor** Fri Mar 07 14:58:23 2008 Status: Unknown

Summary Status Static customers **Users**

Users

[Add new user](#)

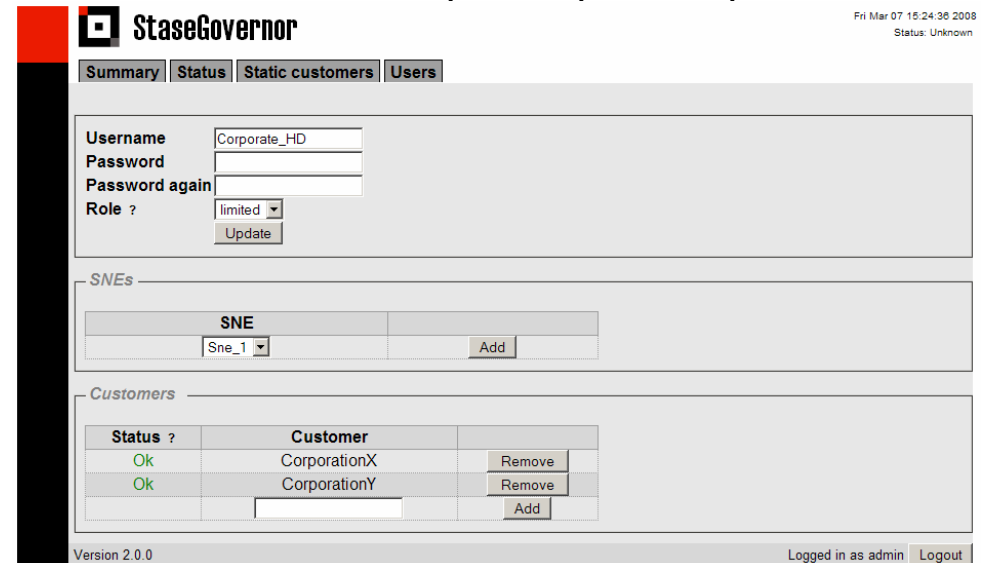
Previous 1 Next

Username	Role	SNEs	Static customers	
admin	admin	*	*	edit
Corporate_HD	limited	-	CorporationX, CorporationY	edit remove
Consumer_HD	limited	Sne_1, Sne_2	-	edit remove
FTTH_HD	limited	Sne_2	-	edit remove

Previous 1 Next

Version 2.0.0 Logged in as admin Logout

### Account for Corporate HelpDesk Group



**StaseGovernor** Fri Mar 07 15:24:36 2008 Status: Unknown

Summary Status Static customers **Users**

Username: Corporate\_HD  
 Password:   
 Password again:   
 Role?: limited

SNEs

SNE: Sne\_1

Customers

Status ?	Customer	
Ok	CorporationX	Remove
Ok	CorporationY	Remove
	<input type="text"/>	Add

Version 2.0.0 Logged in as admin Logout

## Screenshot of Summary Page

**StaseGovernor**

Fri Mar 07 15:28:01 2008  
Status: Unknown

Summary | Status | Static customers | Users

Summary

*Traffic Graphs*

Traffic graph for the last 48 hours

■ wan-to-lan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last  
■ lan-to-wan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last

**Sne\_1**

Traffic graph for the last 48 hours

■ wan-to-lan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last  
■ lan-to-wan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last

**Sne\_2**

Traffic graph for the last 48 hours

■ wan-to-lan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last  
■ lan-to-wan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last

**Sne\_3**

Traffic graph for the last 48 hours

■ wan-to-lan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last  
■ lan-to-wan 0.00 B/s average, 0.00 B/s peak, 0.00 B/s last

**Sne\_4**

*Statistics*

<i>SNE specific</i>							
SNE name	IP address	XML-RPC identifiers	Static identifiers	Valid identifiers	Guaranteed Bandwidth Usage (down/up)	Last updated	Status
Sne_1	192.168.1.201	1100	2	1102	0 % / 0 %	2008-02-08 15:34:40	idle
Sne_2	192.168.1.202	0	1	1	0 % / 0 %	2008-02-08 15:34:40	idle
Sne_3	192.168.1.203	0	1	1	0 % / 0 %	2008-02-08 15:34:40	idle
Sne_4	192.168.1.204	0	1	1	0 % / 0 %	2008-02-08 15:34:40	idle
<b>Total</b>		1100	5	1105			

**Total**

XML-RPC Bandwidths 1000

Static Bandwidths 2

Valid Bandwidths 1002

XML-RPC Identifiers 1100

Static Identifiers 2

Valid Identifiers 1102

Version 2.0.0

Logged in as admin [Logout](#)