HTTP redirect to snsr.sunet

Check the IP address range

Wired IP address?
  Yes
  Present choice: self-register?
  No
  WebAuth to get SUNetID

Choose to self-register?
  Yes
  Add IP to REGSET
  No
  Isolated - no network access

Present choice: wireless guest?
  Yes
  WebAuth to get SUNetID
  No
  Instruct to register in dorm

On-campus student?
  Yes
  Authenticate using GuestID
  No
  Add IP to GUESTSET

Choose wireless guest?
  Yes
  Add IP to REGSET
  No
  On-campus student?

Instruct to register in dorm

SelfReg

Choice made to self-register?
  Yes
  WebAuth and in REGSET
  No
  Get location and system info

Passed Health Check?
  Yes
  Unix operating system?
  No
  No
  Redirect to exit URL (if one)
  Yes
  Activate node in NetDB

Present choice: guest or register?

Special Note: SNRT is the Stanford Network Registration Tool, a new name for what was the Health Check Tool.
Connect to SNSR-enabled local network

MAC in NetDB?
- Yes: Get IP in 171.64.0.0/14 or shadow space
- No: Get IP in 10.64.0.0/14

Policy routed via prv-fors-rtr to snsr-ipt1

IP in IPSET in snsr-ipt1?
- No: HTTP redirect to snsr.sunet
- Yes: Isolated - no network access

Isolated - no network access

Choose to self-register?
- No: Add IP to REGSET
- Yes: On-campus student?

On-campus student?
- Yes: Instruct to register in dorm
- No: Present choice: self-register?

Present choice: self-register?
- No: PAT into 171.67.252.0/23
- Yes: Policy route to serv-rtr from snsr-rtr

Policy route to serv-rtr from snsr-rtr

Follow BGP routes to CENIC HPR and DC

Follow Default route to Internet Access Layer

Routing on campus?
- Yes: Follow BGP routes to CENIC HPR and DC
- No: Follow Default route to Internet Access Layer

REGSET in snsr-ipt1?
- Yes: On-campus
- No: Isolated - no network access

Route directly to BBRe via sns-rtr and border3-rtr

Add IP to REGSET

WebAuth to get SUNetID

Follow Default route to Internet Access Layer
Connect to SSID “Stanford”

MAC in NetDB?
- Yes: Get IP in 10.32.0.0/15
- No: Get IP in 10.22.0.0/16

Policy routed via prv-fors-rtr to sns-ipt1

IP in IPSET in sns-ipt1?
- No: HTTP redirect to sns.sunet
- Yes: Present choice: guest or register?

PRESENT CHOICE:
- guest or register

Choose to self-register?
- Yes: WebAuth to get SUNetID
- No: On-campus student?

On-campus student?
- Yes: Instruct to register in dorm
- No: Choose wireless guest?

Choose wireless guest?
- Yes: Authenticate using GuestID
- No: Add IP to REGSET

Add IP to REGSET

PRESENT CHOICE:
- guest or register

Add IP to GUESTSET

Authenticate using GuestID

Present choice: guest or register?

PRESENT CHOICE:
- guest or register

GUESTSET in sns-ipt1?
- Yes: Routing on campus?
- No: PAT into 38.114.142.0/23 or 68.65.170.0/23

Routing on campus?
- Yes: Route to Internet Access Layer via sns-rtr
- No: Route directly to BBRs via sns-rtr and border3-rtr

REGSET in sns-ipt1?
- Yes: Routing on campus?
- No: PAT into 171.67.252.0/23

Routing on campus?
- Yes: Policy route to serv-rtr from sns-rtr
- No: Follow BGP routes to CENIC HPR and DC

Follow Default route to Internet Access Layer