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Spotron

Integrated Enterprise Hotspot Solution

for Check Point SOFTWARE TECHNOLOGIES LTD and FORTINET Security Gateways

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OVERVIEW

- Main Features
- Topology
- Server Setup
- Authentication Methods
- Portal Customisation
- User Experience
- Use Cases
- Administrator Experience
- References

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MAIN FEATURES

MAIN FEATURES

- SaaS : Ready to use on-demand software
  - As a Cloud service by Skylone to SMB customers.
  - As a Shared service from an MSP to its customers.
- Enterprise/Telco grade Hotspot solution:
  - Integration and cooperation with leading security gateway vendors
  - Can be scale up to your security gateway scalability
  - Distributed architecture support via central deployment
  - SSL encrypted traffic on guest networks

MAIN FEATURES

- Web based management interface
  - In-house developed unique portal engine
  - Role based management (6 different roles)
  - Profile based management
  - Multilingual support
- Rule 5651 compliant: Guest information recorded on Security Gateway's log records.
- Spotron has been incorporated into the strategy of leading network-security companies.

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TOPOLOGY

TOPOLOGY

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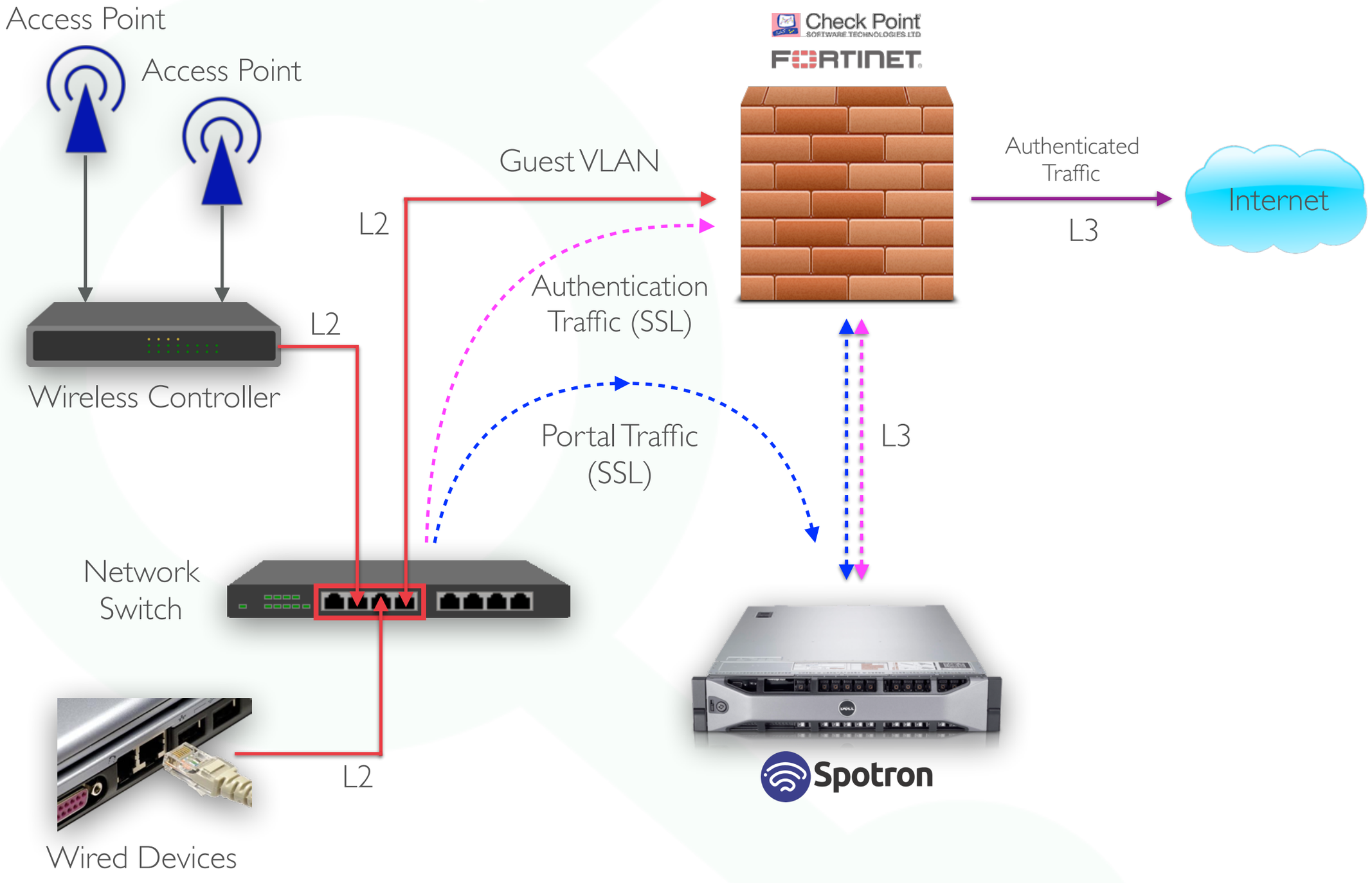

TOPOLOGY

- Spotron Server should be placed to DMZ
- Services handled by Spotron:
  - `DNS, DHCP, RADIUS, HTTP`
- Certificate requirements :
  - Authentication Traffic (for Security Gateway)

    `i.e. gateway.company.com`
  - Portal Traffic (for Spotron)

    `i.e. hotspot.company.com`

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SERVER SETUP

SERVER SETUP

- Spotron software will be installed through an ISO image
- Configuration parameters are predefined :
  - IP addresses, DHCP Scope, Domain Names, etc.
- Installation will be completed as unattended.
- Can be installed on a virtual environment or on a physical system
- Typical hardware requirements;
  - 2 x CPU core, 2 GB memory, 40 GB Hard Drive, Single Ethernet Interface

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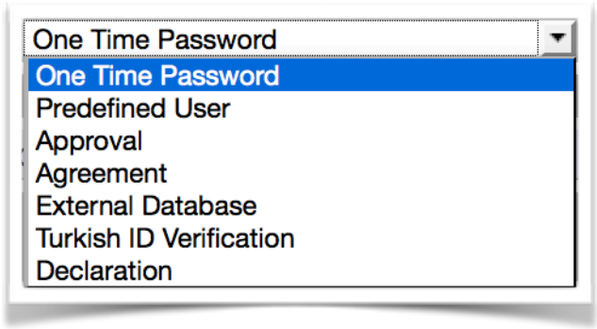
AUTHENTICATION METHODS

AUTHENTICATION METHODS

- Gateways on different locations can be configured to use different authentication methods.
- Authentication parameters can be configured globally or based on location (gateway).
- Dynamic ID will be placed as "User Name" in log records of Security Gateway.
- Profile based management.
- Multilingual interface (based on browser language)



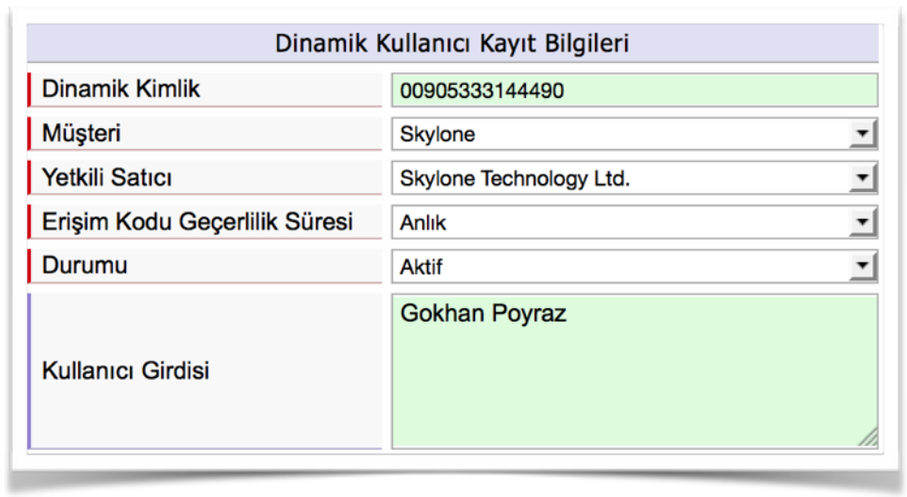
ONE TIME PASSWORD (SMS OTP)

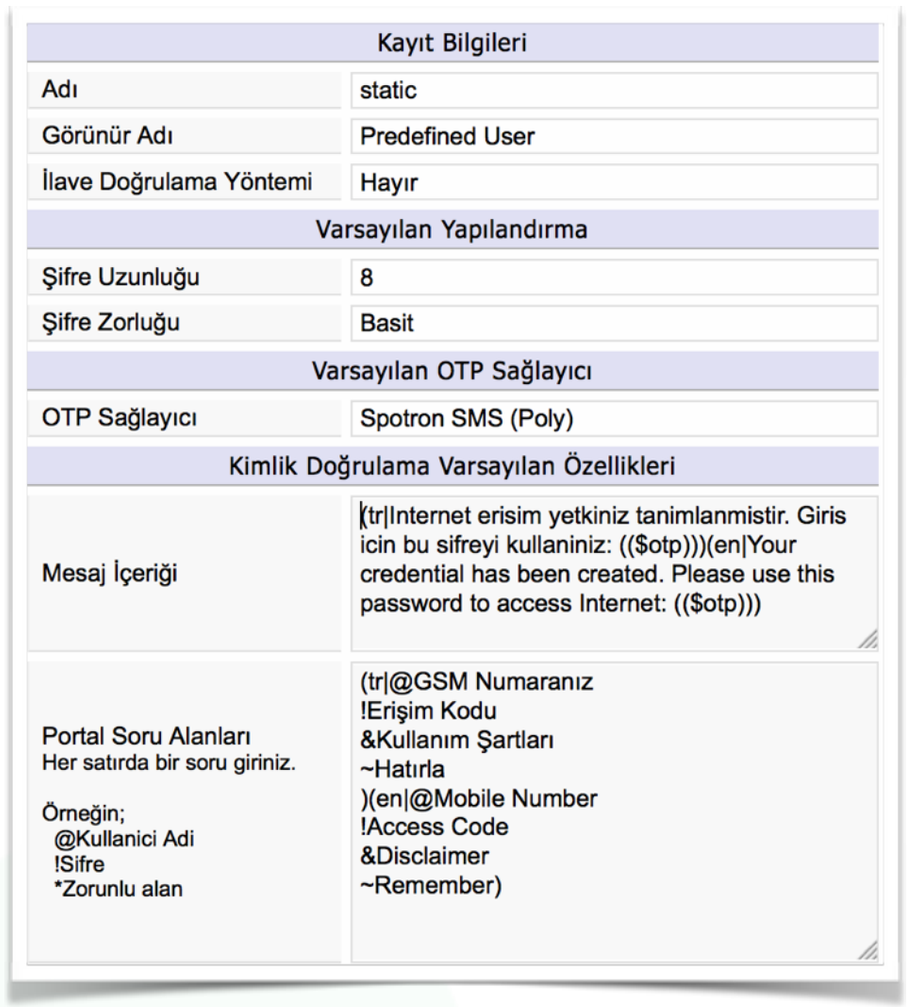
- Self Registration
- Authentication information will be delivered via SMS.
- Abuse protection for frequent SMS requests
- Customisable query fields

Record Details	
Name	otp
Display Name	One Time Password
Second Factor Capable	No
Default OTP Configuration	
Password Length	6
Password Complexity	Simple
Sending Period (in seconds)	180
Long-Wait Period (in seconds)	3600
Access Code Validity	Everytime
Default OTP Provider	
OTP Provider	Spotron SMS (Poly)
Authentication Default Parameters	
Sender Information	Spotron
Message Content	(tr|Internet erisimi icin dogrulama parolaniz: (($otp)))(en\|Validation code to access internet: (($otp)))
Disclaimer Header	(tr|Okudum, Kabul Ediyorum.)(en|I have Read and Agree.)
Subscription Header	(tr| Kurum ve işbirliği içinde olduğu markaların hizmetlerinden, kampanyalarından, tanıtımlarından ve aktivitelerden e-posta, sms ve diğer iletişim yolları ile haberdar olmak istiyorum ve bilgilerimin
Requested Information Fields Enter one field per line. For example; Full Name *Must not empty @Mobile Number !Verification Code	(tr|Adınız, Soyadınız E-Posta Adresiniz @GSM Numaranız &Kullanım Şartları !Erişim Kodu ~Hatırla ?Haberdar Ol)(en| Your Name E-Mail Address @Mobile Number &Disclaimer !Access Code ~Remember ?Subscribe)

PREDEFINED (SMS OTP)

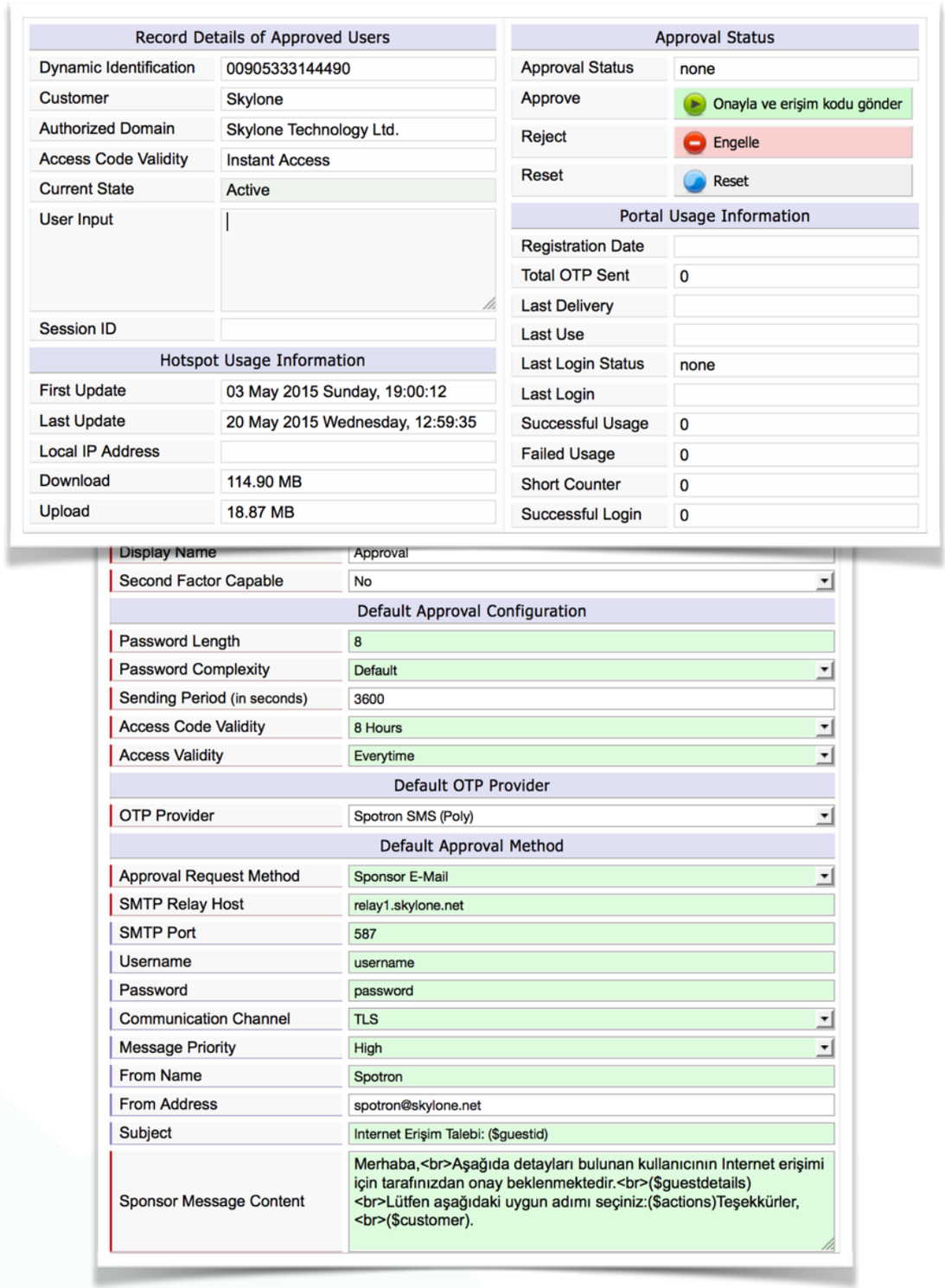
- Restricted (predefined) users only
- No Self-Registration
- No query fields
- Authentication information will be delivered via SMS.





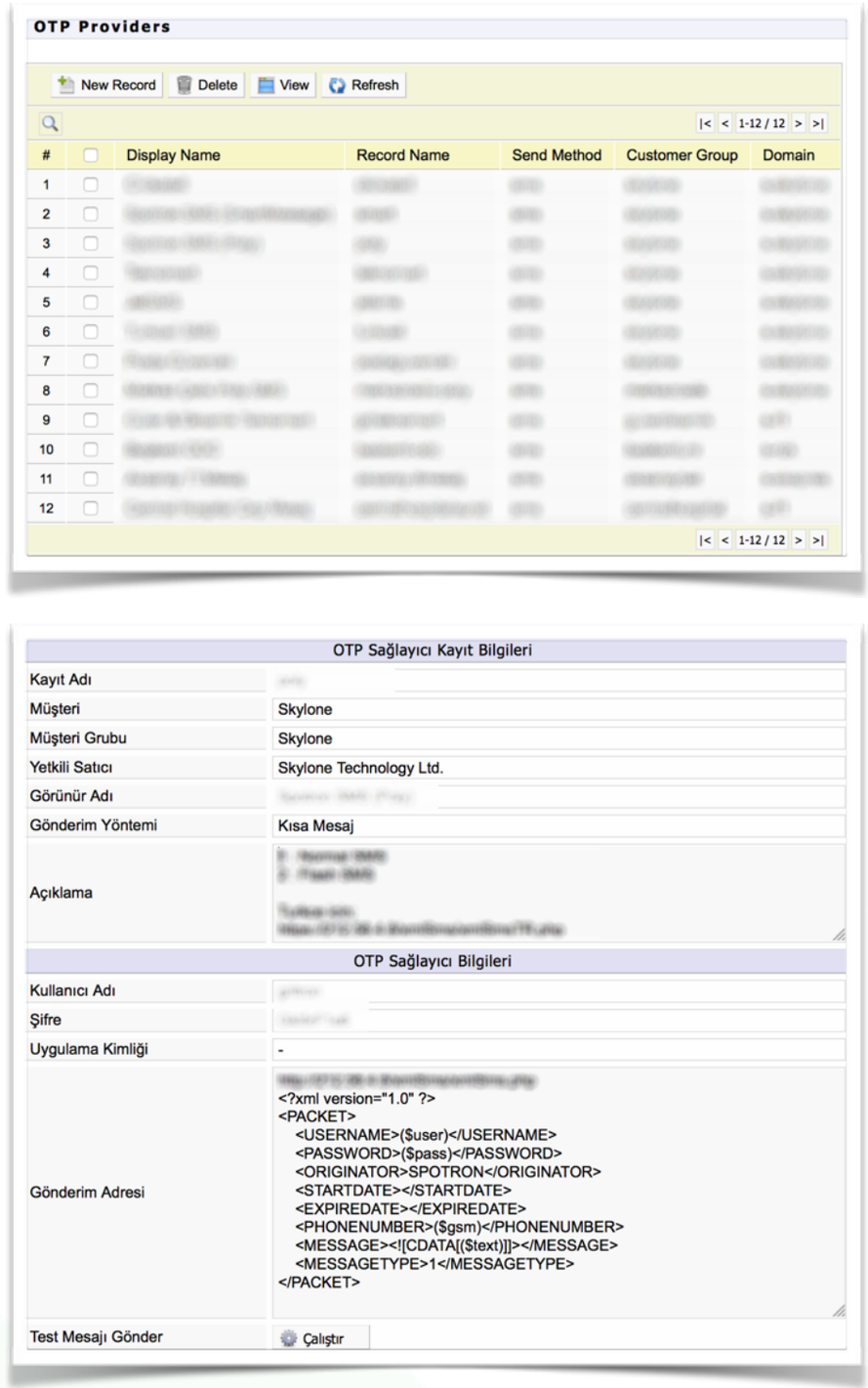
APPROVAL (SMS OTP)

- Self Registration
- Approval mechanism through an predefined (or individual) e-mail notification
- Second copy (Cc, Bcc) to a predefined account
- Customisable query fields
- Authentication information will be delivered via SMS after approvement.



SMS GATEWAYS

- Profile based SMS gateway management
- WebService and HTTP PUT/GET support
- More than 10 SMS provider already integrated as a predefined record.



OTHER METHODS

- Spotron can be integrated with an external database (Oracle, MS-SQL, MySQL) to check information provided by guest users for authentication.

- TCKN validation through web service of nvi.gov.tr is supported.

- Disclaimer only access is supported.

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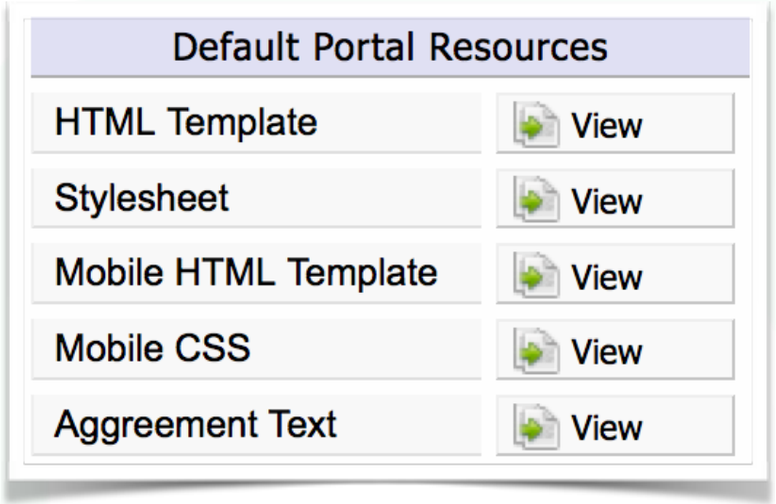
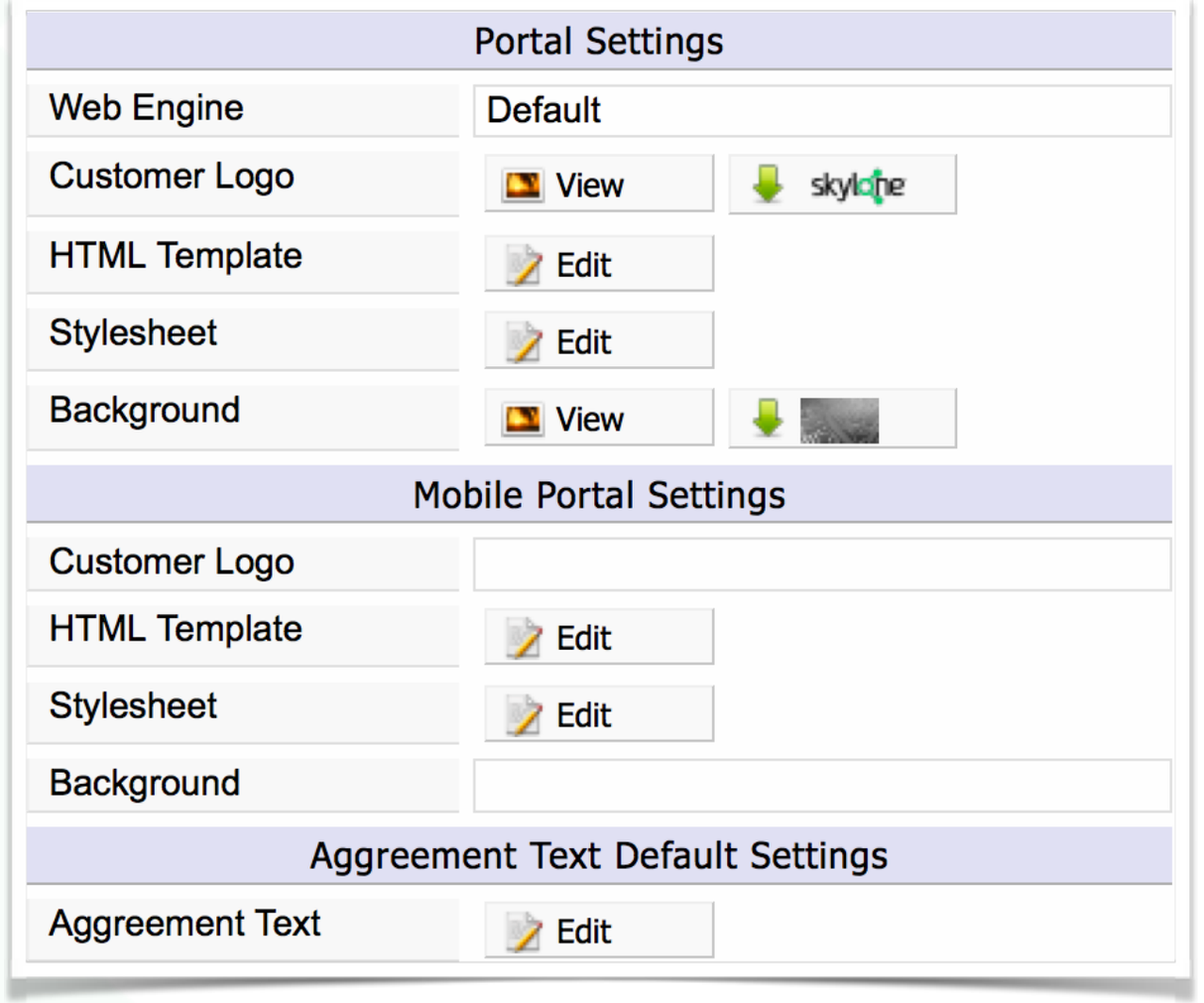
PORTAL CUSTOMISATION

PORTAL CUSTOMISATION

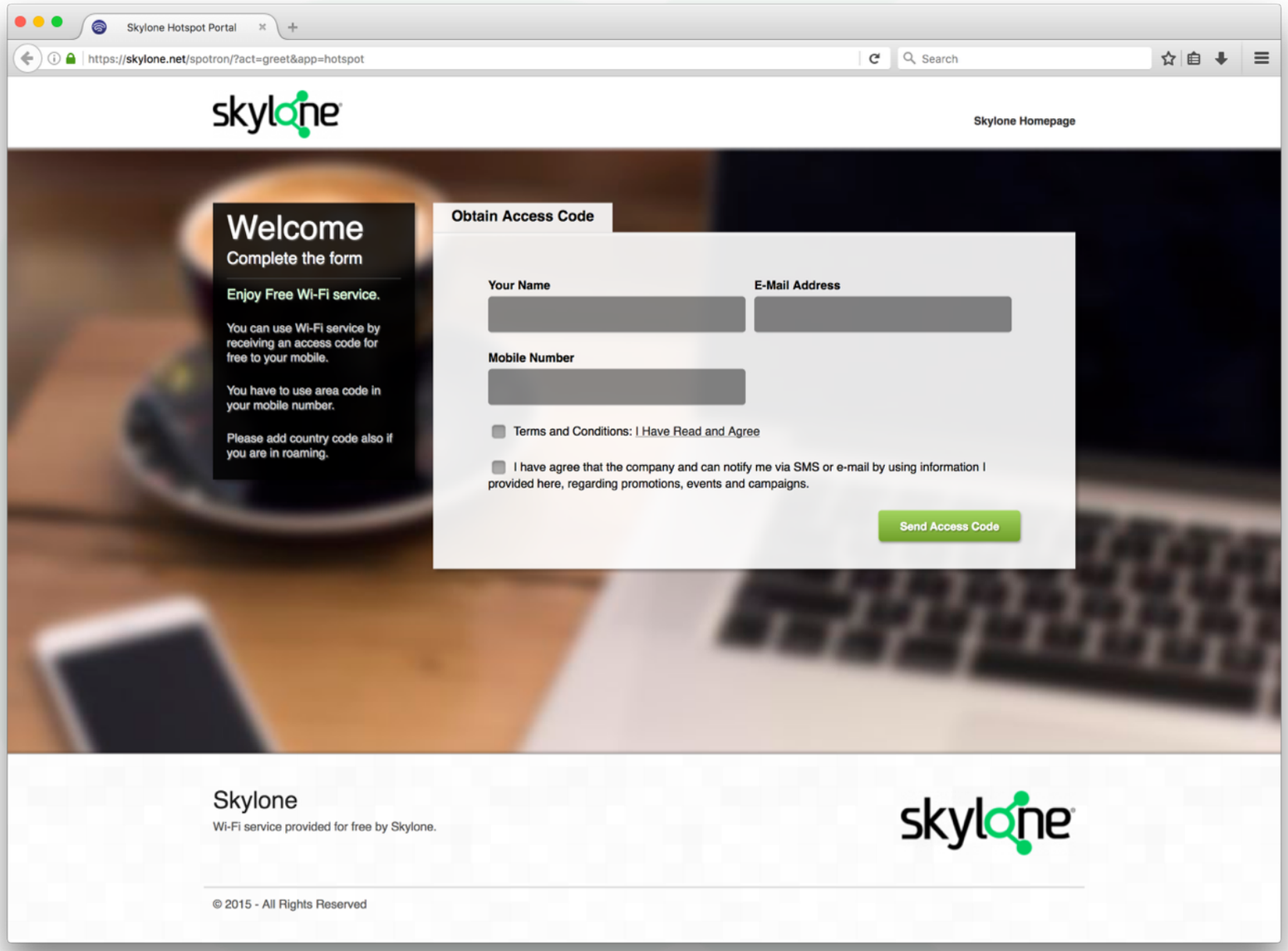


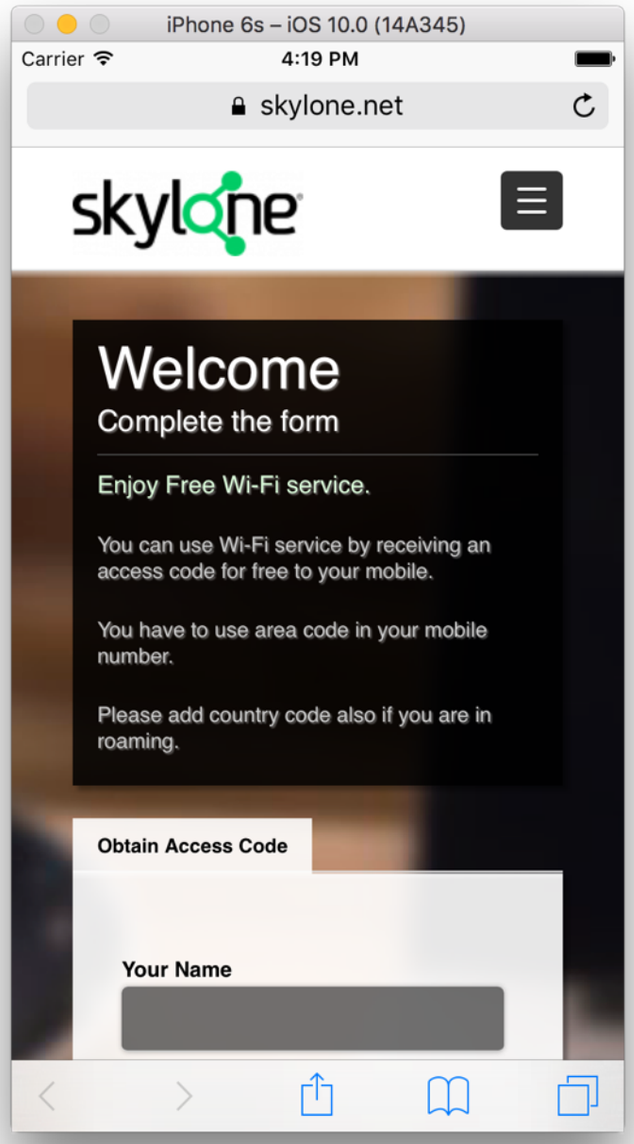
- User interface can be customised easily through management portal.

- Advanced customisation is also supported through changing files on filesystem.



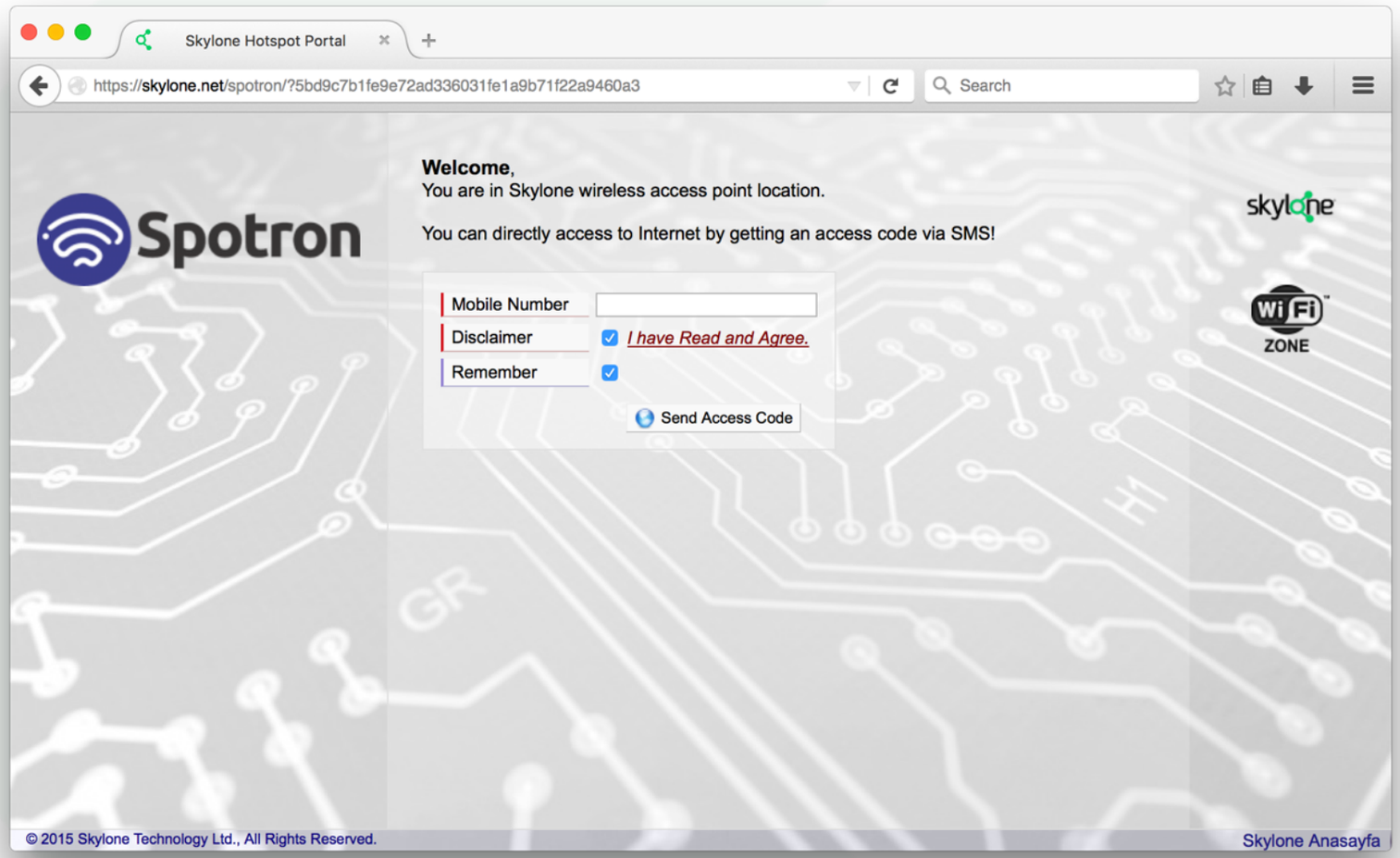
DEFAULT TEMPLATE

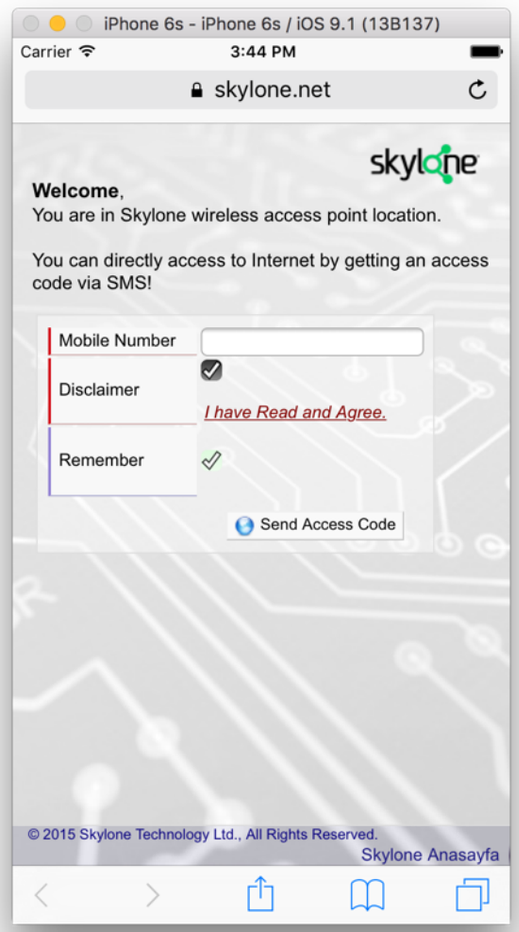




- Default Template usage with background image and logo customisations.

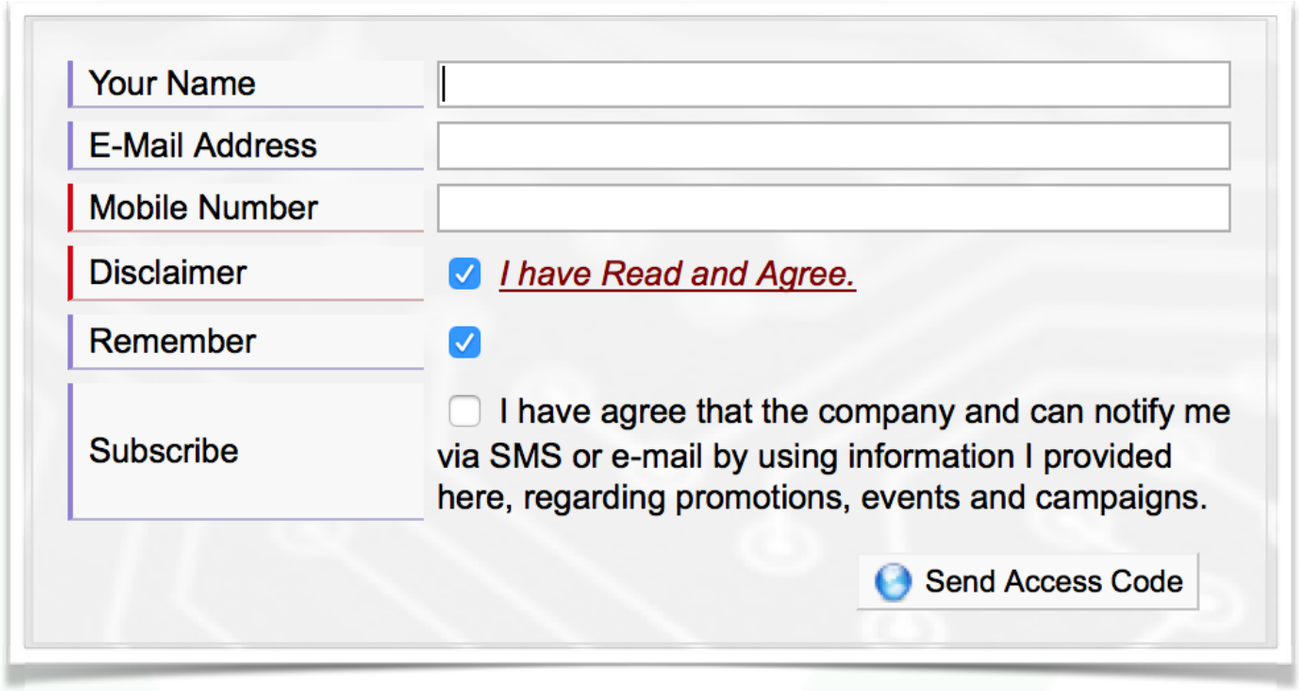
BASIC TEMPLATE

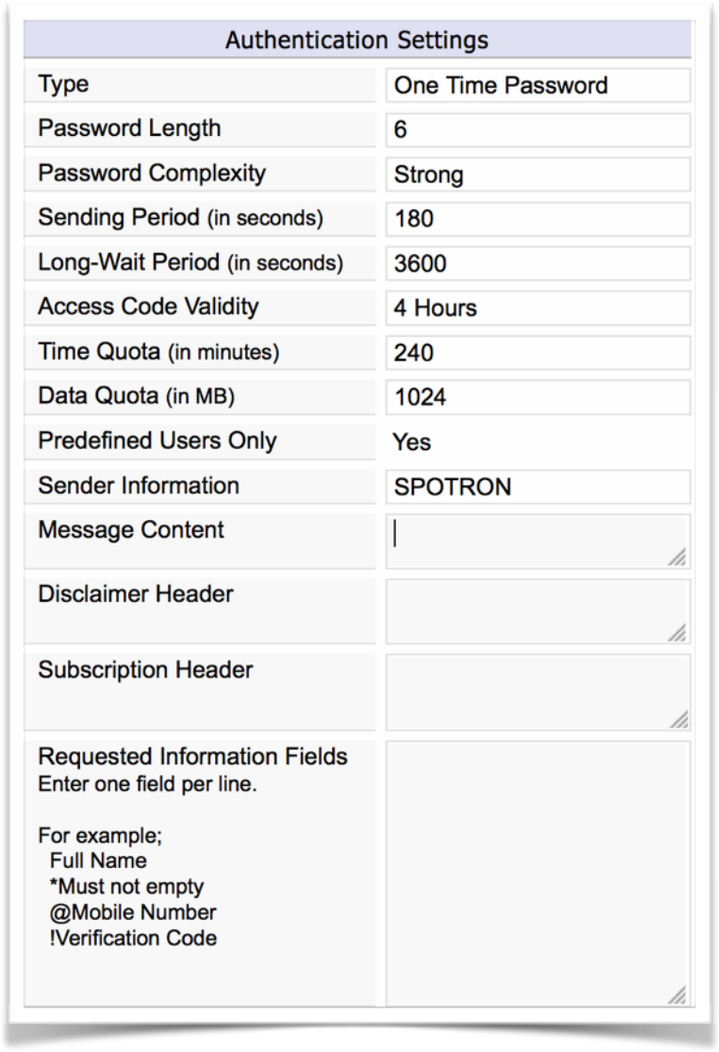




- Basic Template usage with background image and logo customisations.

INPUT FIELDS





- Input fields can be changed through management interface without involving HTML code.

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USER EXPERIENCE

REDIRECTION & SELF REGISTRATION

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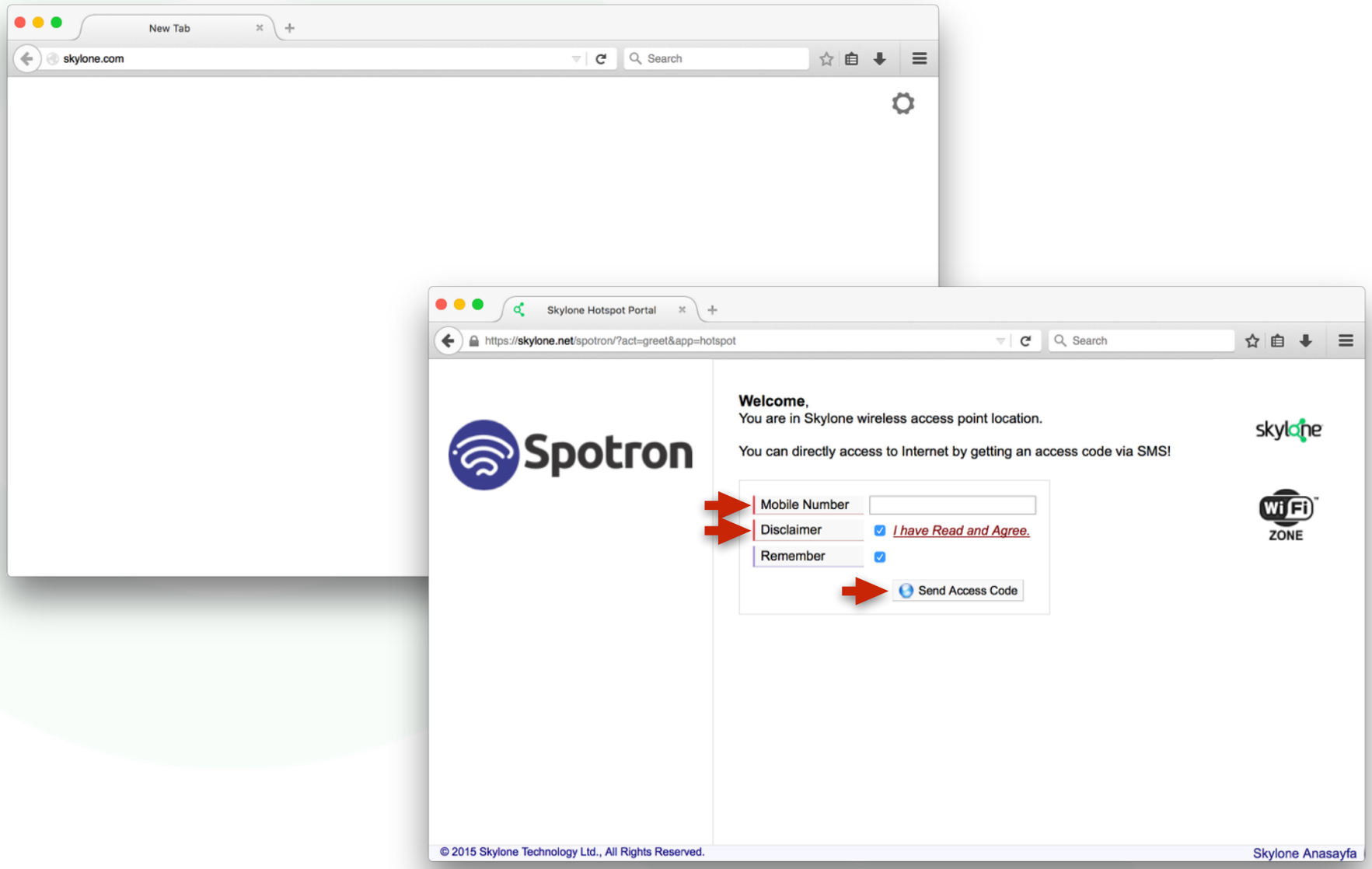

VERIFICATION

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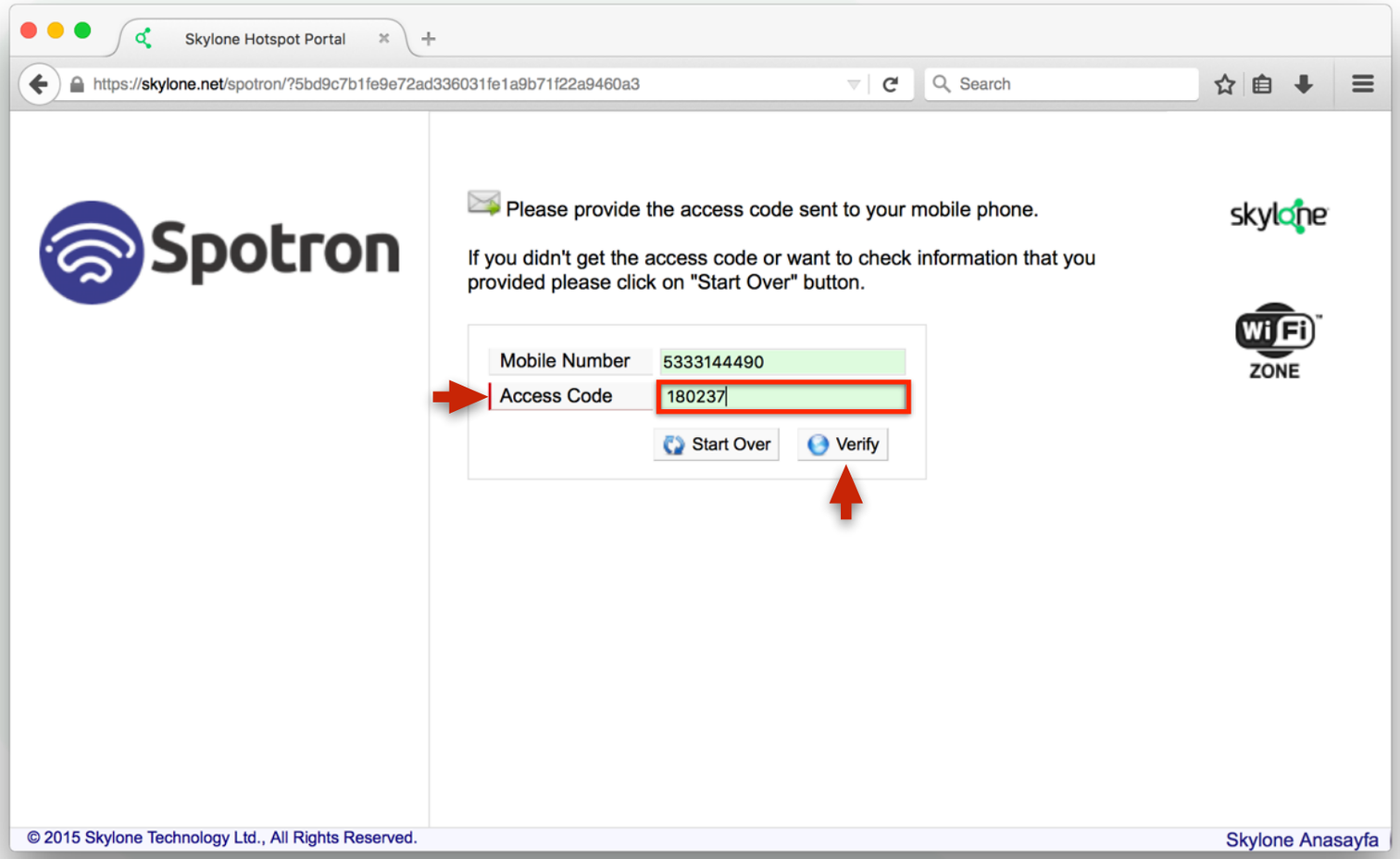

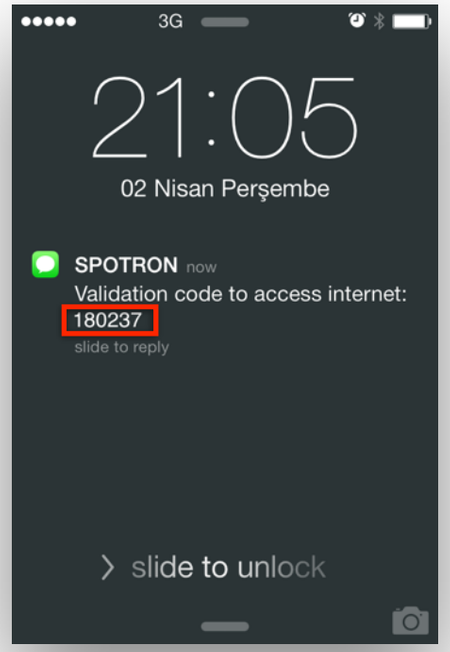

AUTHENTICATION & ACCESS

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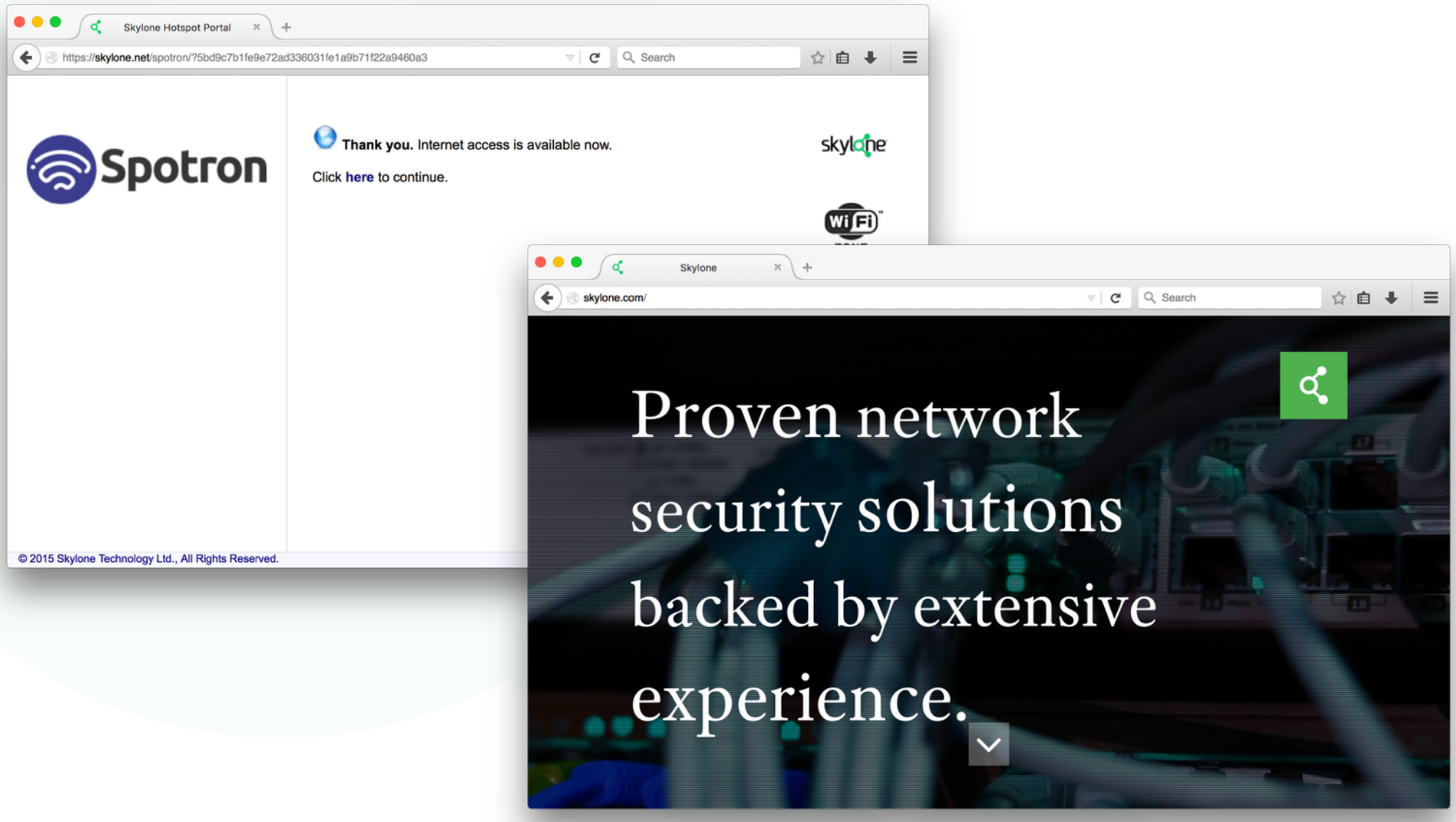

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USE CASES

ABUSE PROTECTION

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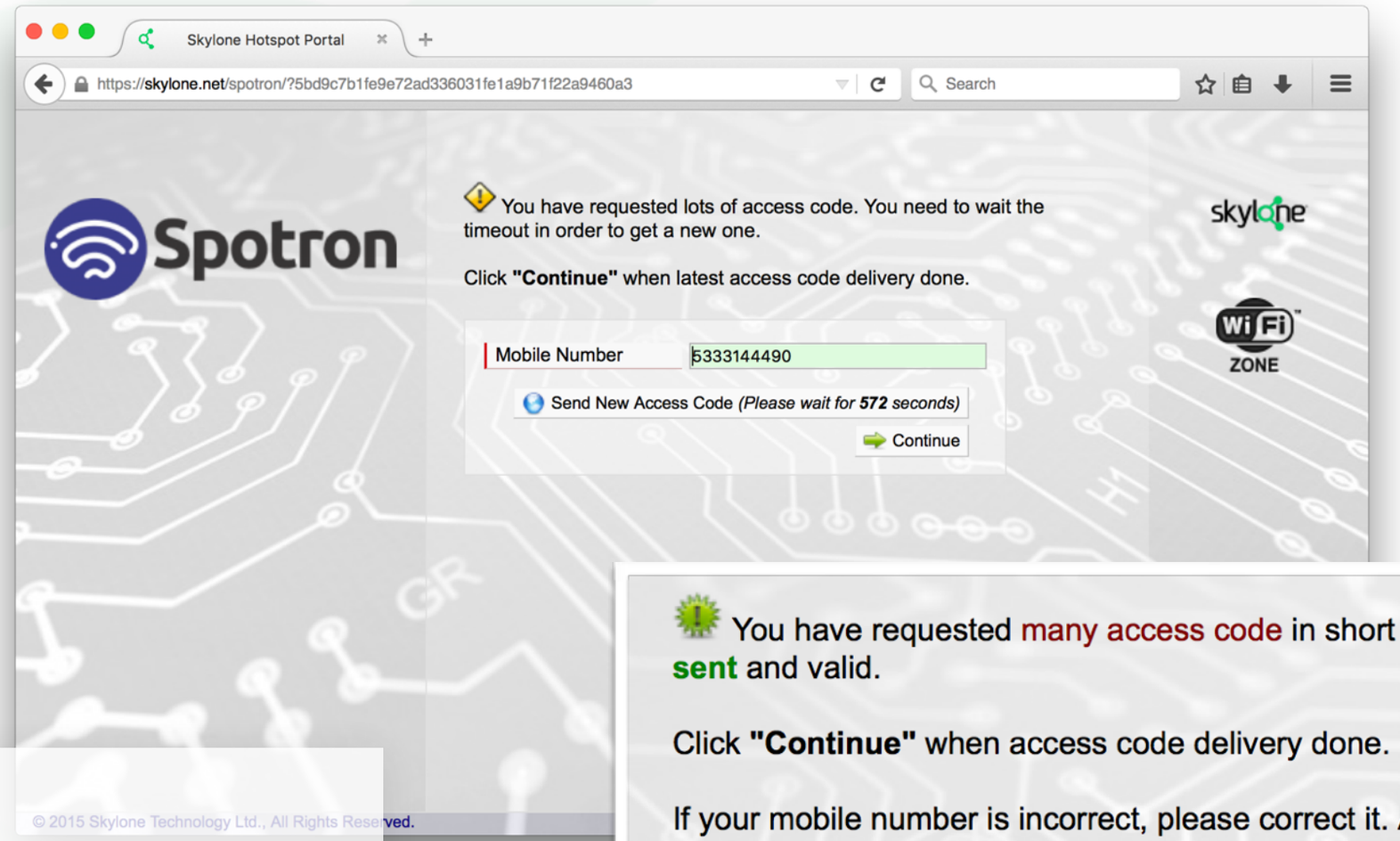

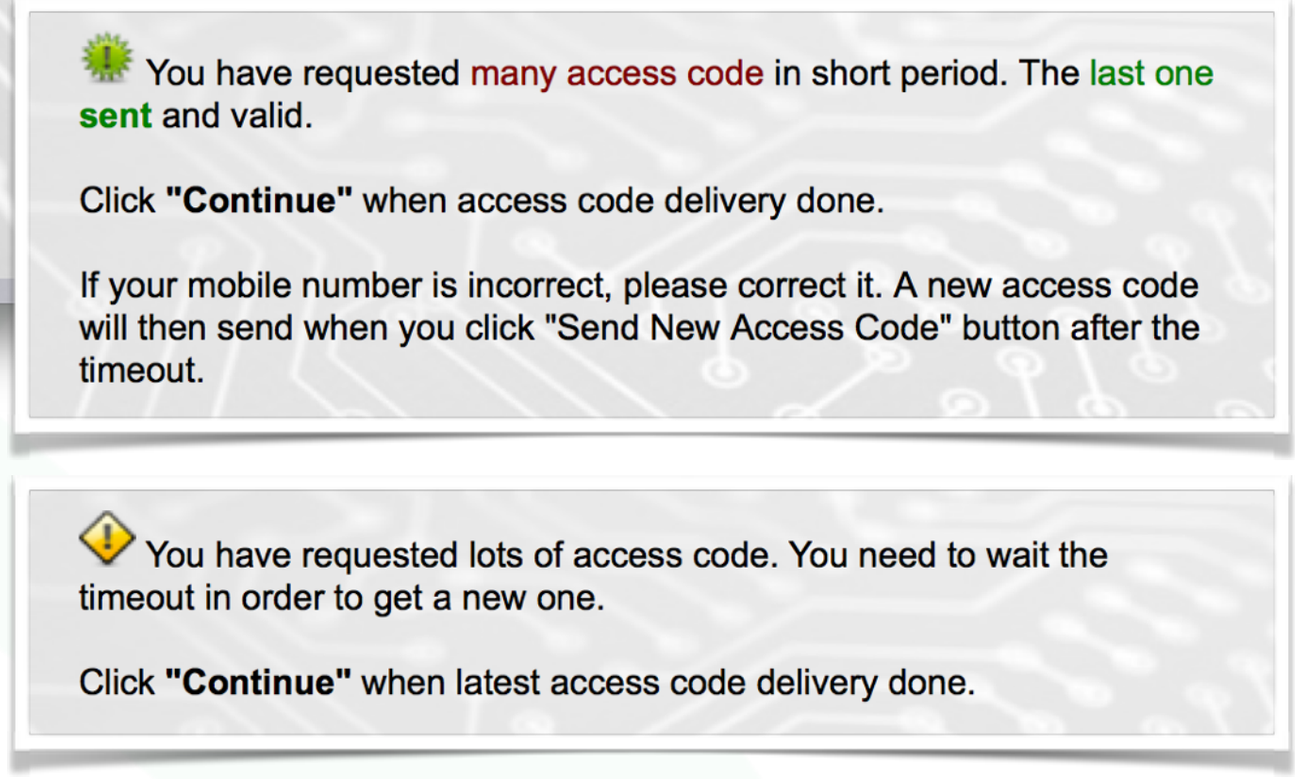

Abuse protection for consecutive SMS-OTP requests.

SMS-OTP AUTHENTICATION

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You most probably gave the wrong mobile number.

Please correct and continue.

We are sorry, we can't be able to send an SMS to your mobile.

Please wait for a while and try again.

Validity of the access code has expired.

Please continue to get a new access code.

Please provide the access code sent to your mobile phone.

If you didn't get the access code or want to check information that you provided please click on "Start Over" button.

The **access code** that we sent before **valid**, **please use it**..

If you lost the access code, please click on "Send Again" button to get new one.

The **access code** that we sent recently still **valid**.

Click **"Continue"** when access code delivery done.

If your mobile number is incorrect, please correct it. A new access code will then send when you click "Send New Access Code" button.

Sorry, given access code is not verified. Please check it with the code sent to your mobile and press "Verify" button again.

If you want to check information that you provided or want to get another access code please click on "Start Over" button.

AUTHENTICATION WITH APPROVAL

Spotron

Your access request has been forwarded for approval.

Please wait for a while and verify the access code when you get it by SMS.

Your access request is waiting for approval.

Please wait for a while and verify the access code when you get it by SMS.

Your access request has been approved and the **access code** that we sent before **valid**, **please use it**.
.

If you lost the access code, please click on "Send Request" button to create new request.

Your access request has been approved.
Please provide the access code sent to your mobile phone.

If you didn't get the access code or want to check information that you provided please click on "Start Over" button.

QUOTA & SERVICE OUTAGES

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You have exceed your daily usage quota..

Thank you for using our Hotspot service..

Sorry, the service is temporarily unavailable.

Please wait for a while and try again.

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ADMINISTRATOR EXPERIENCE

USER ACTIVITIES - SPOTRON

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skylone

Spotron Portal

Home | Management Tools | Admin Tools | Resources | Reports — Super Admin | Sign out

- Account Management
  - Authorized Domains
  - Portal Users
  - Customers
  - Gateways
- User Activities
  - Dynamic Users
  - Approval Management
  - Predefined Users
  - External DB Users
- Authentication
  - One Time Password
  - Predefined
  - Approval
  - Aggrement
  - External DB
- Portal Management
  - OTP Providers
  - Portal Resources

Dynamic Users

New Record | Delete | View | Refresh

|< < 1-6 / 6 > >|

4490

#	Dynamic Identification	OTP	Try	Login	Last State	Customer	Domain	Current State	Latest Activity	Registration Date
1	00905333144490	2	11	0	success	skylone	s-skylone	Active	2015-04-02, 16:22:39	2015-04-02, 14:44:51

Dynamic Users

Please select an option.

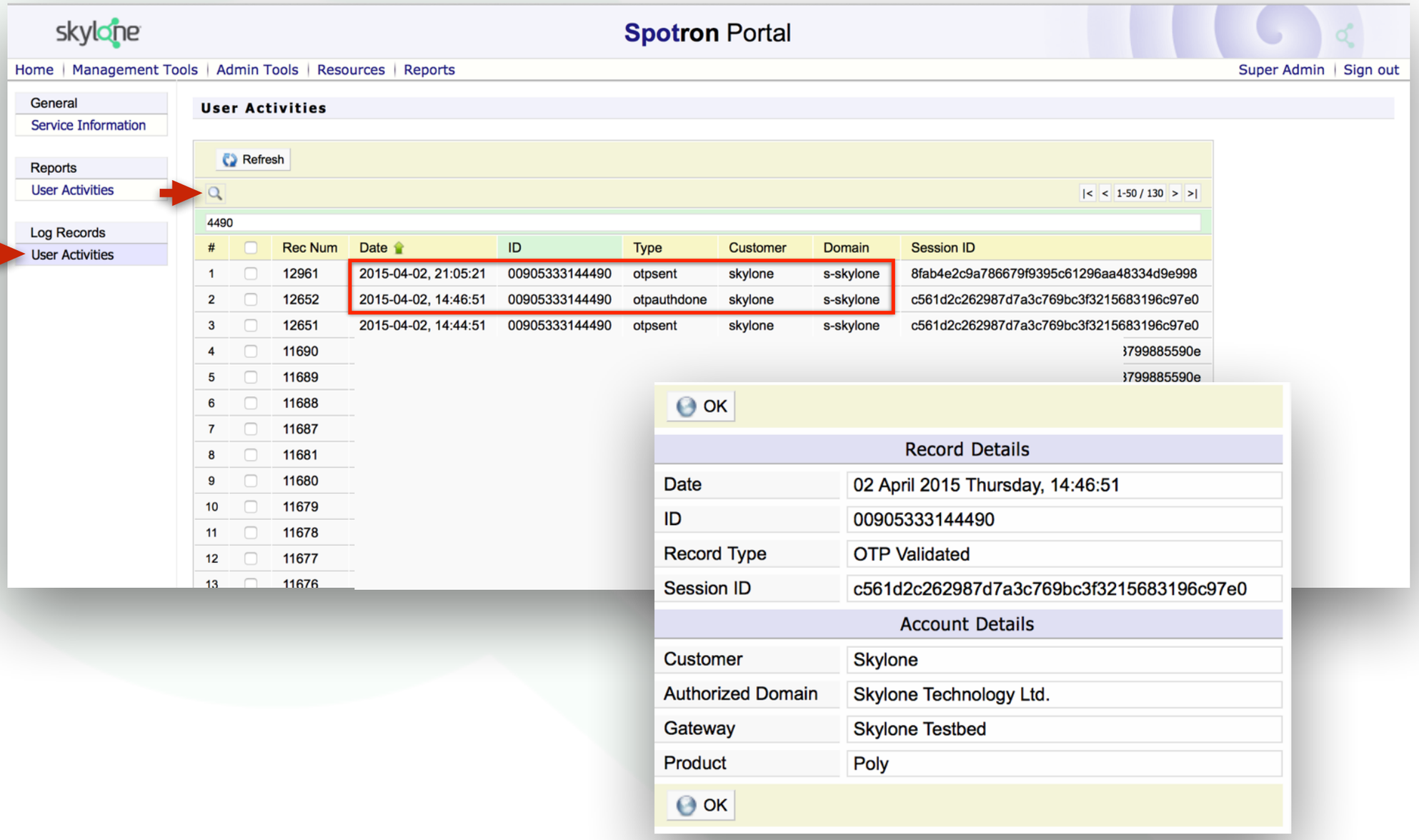
Edit | Delete | OK

Record Details of Dynamic Users	
Dynamic Identification	00905333144490
Customer	Skylone
Authorized Domain	Skylone Technology Ltd.
Access Code Validity	Everytime
Current State	Active
User Input	Your Name: E-Mail Address: Mobile Number:5333144490 Disclaimer:true Remember:true
Session ID	8fab4e2c9a786679f9395c61296aa48334d9e998
Hotspot Usage Information	
First Update	14 March 2015 Saturday, 05:15:05
Last Update	14 March 2015 Saturday, 06:28:57
Local IP Address	
Download	7.96 MB
Upload	589.49 KB

Portal Usage Information	
Registration Date	02 April 2015 Thursday, 14:44:51
Total OTP Sent	2
Last Delivery	02 April 2015 Thursday, 21:05:21
Last Use	02 April 2015 Thursday, 16:22:39
Last Status	Successful Authentication
Last Login	
Successful Usage	11
Failed Usage	0
Short Counter	1
Successful Login	0

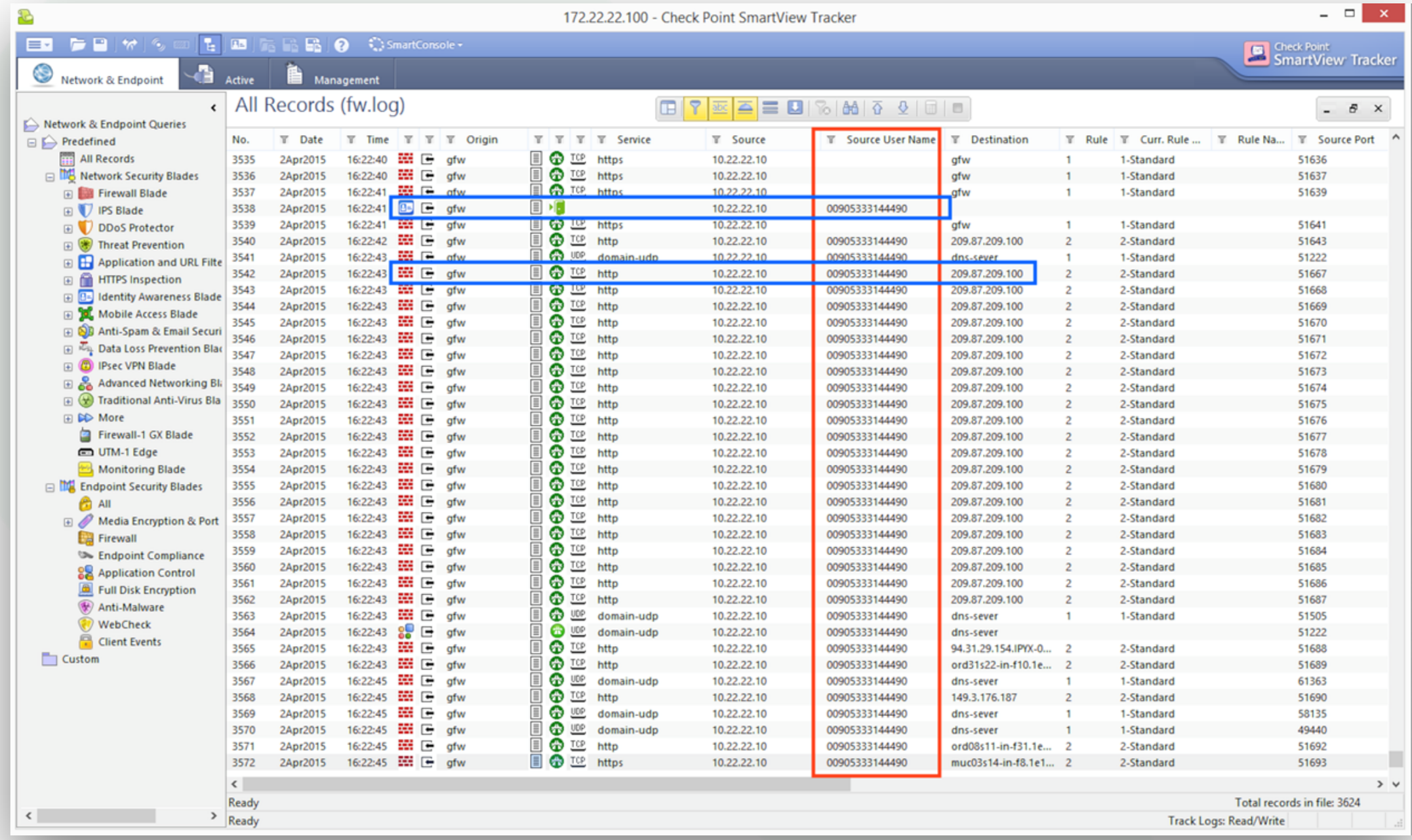
Edit | Delete | OK

LOG RECORDS - SPOTRON

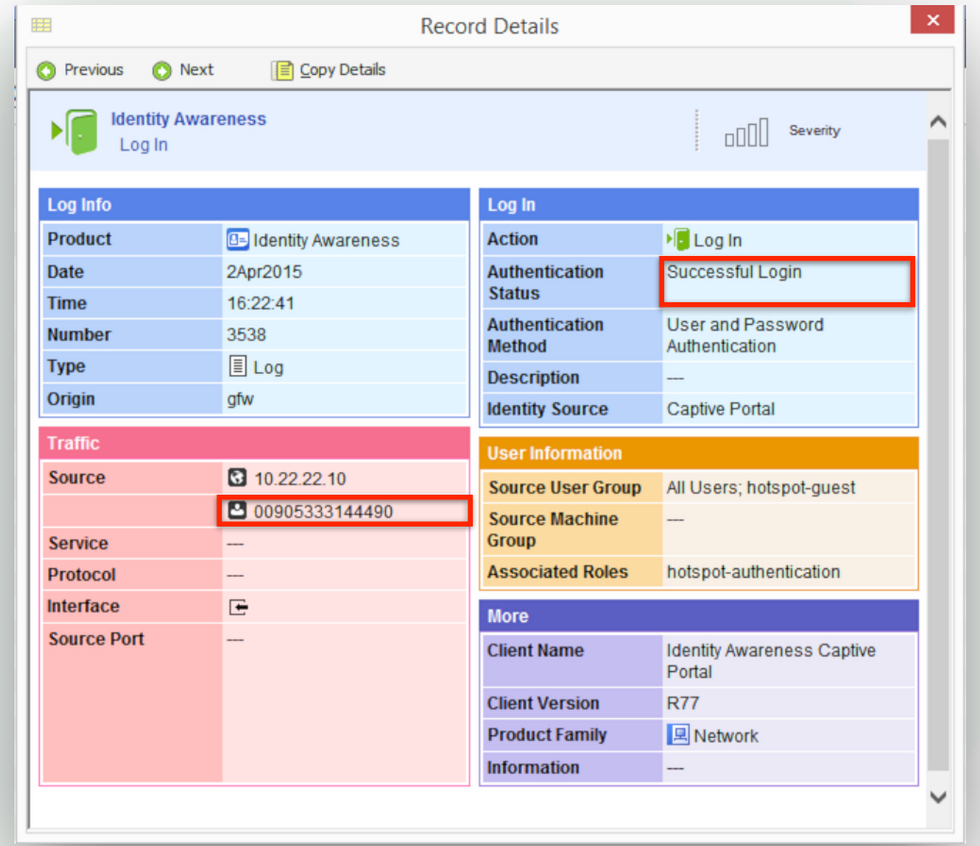


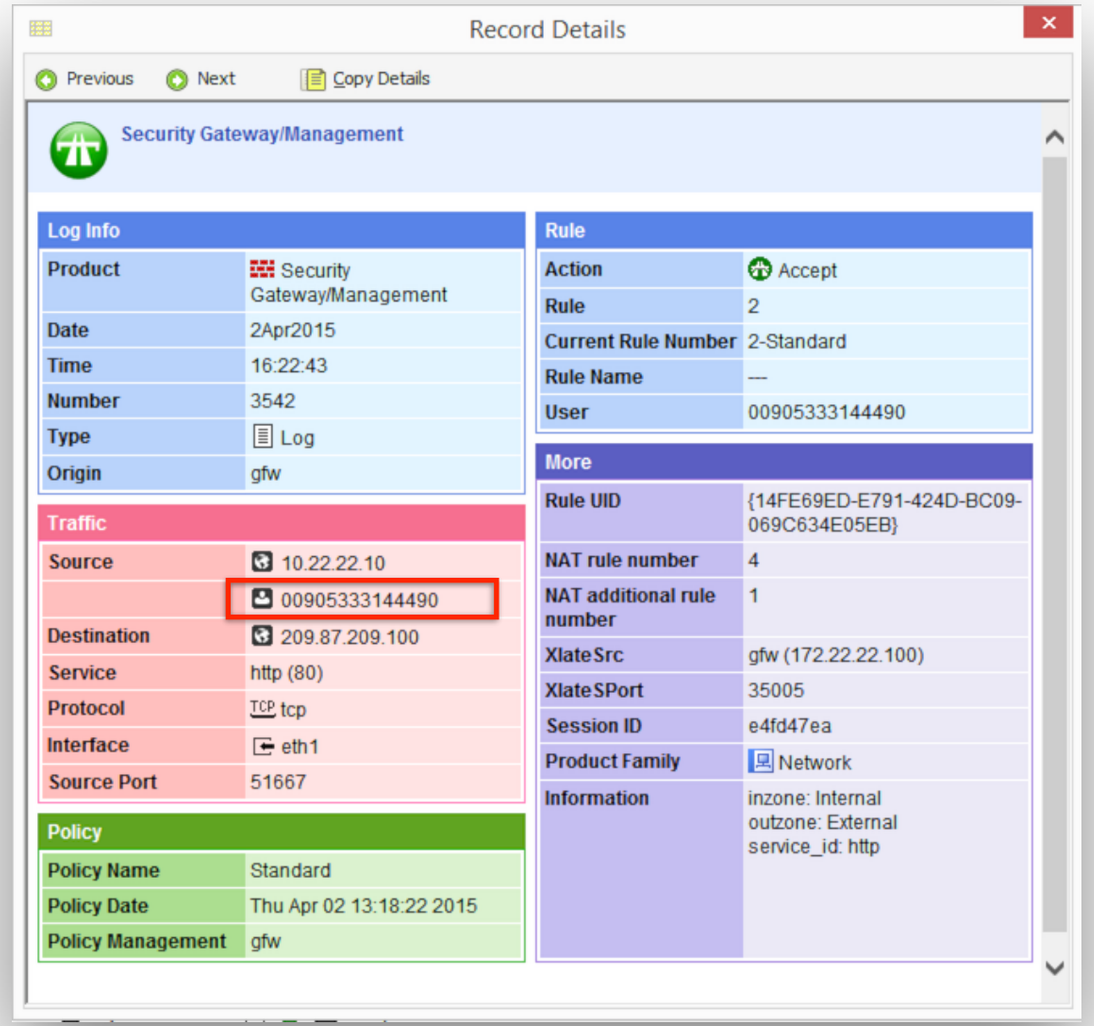
LOG RECORDS - GATEWAY

RULE 5651 COMPLIANCY



LOG DETAILS - GATEWAY





REFERENCES

REFERENCES

- Banking companies
- Insurance and Financial companies
- Shopping malls
- Retail companies
- Big enterprises (holding companies) with central deployment
- MSSP provider (solution provided as a central service to it's customers)

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skylone®
Technology Ltd. http://skylone.com

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