

# Application Control/URL Filtering

Module 9: Application Control/URL Filtering






Instructor: Kim Winfield

# Objectives










- Create and implement an Application Control Policy
- Create a URL Filtering Policy to block undesirable web sites for employees
- Use SSL Inspection to inspect traffic to Secure Web Sites

# Application Control

- Traditional Firewall policies only limit traffic by destination IP address and Service

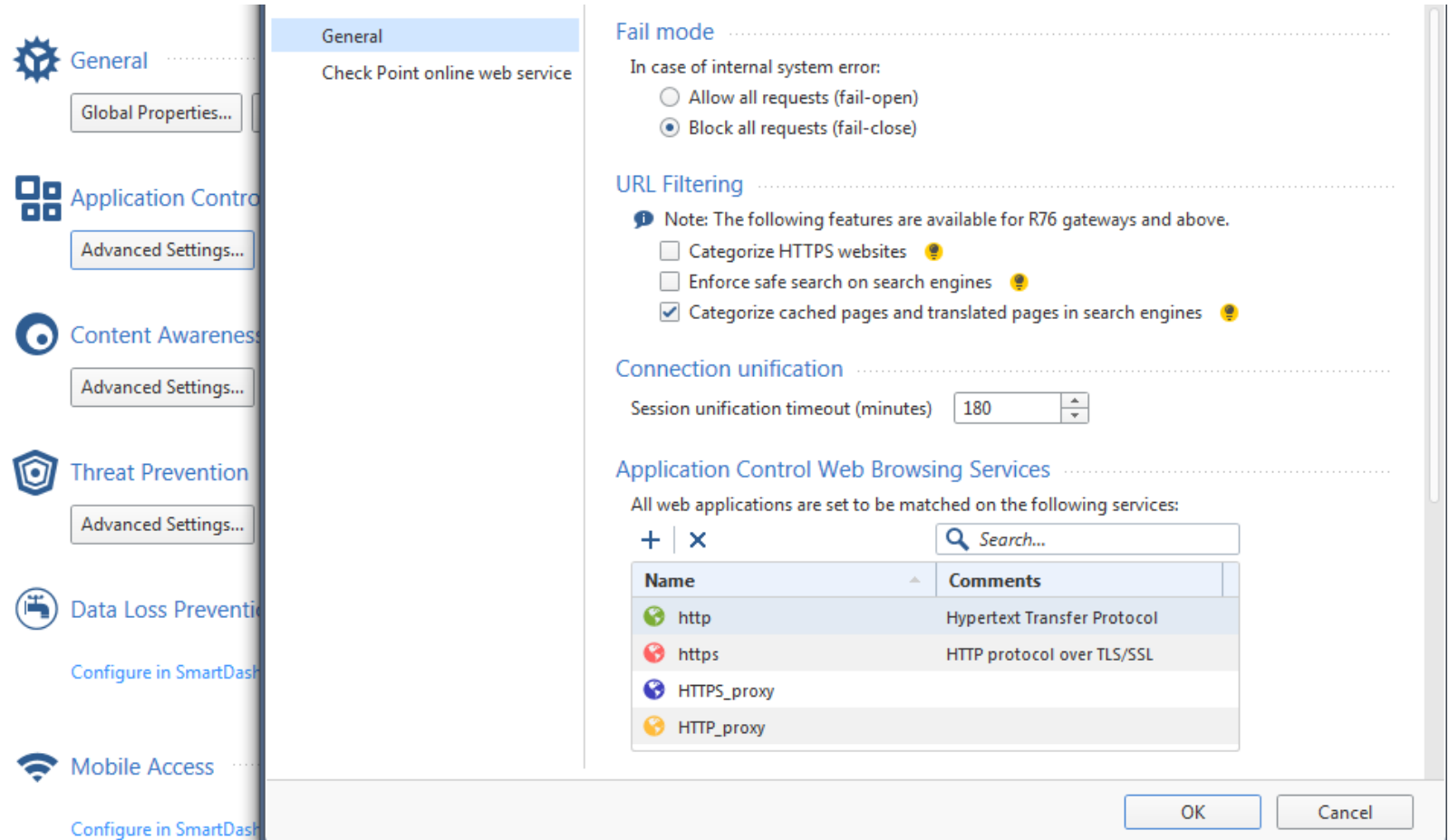
No.	Source	Destination	VPN	Services & Applications	Action
1	* Any	* Any	* Any	* Any	 Drop
2	* Any	* Any	* Any	 http  https	 Accept
3	* Any	* Any	* Any	* Any	 Drop

- Application Control allows access based on application signatures

No.	Source	Destination	VPN	Services & Applications	Action	Track
1	* Any	* Any	* Any	* Any	 Drop	— None
▼ 2	* Any	* Any	* Any	* Any	 Allowed_Application	— N/A
2.1	* Any	* Any	* Any	 Facebook	 Accept	 Log  Accounti
2.2	* Any	* Any	* Any	* Any	 Accept	 Log
Missing cleanup rule - Unmatched traffic will be dropped and not logged.						
3	* Any	* Any	* Any	* Any	 Drop	 Log

# Application Control

- Manage Settings
- Blades



**General**

Check Point online web service

**Fail mode**

In case of internal system error:

- ☐ Allow all requests (fail-open)
- ☒ Block all requests (fail-close)

**URL Filtering**

Note: The following features are available for R76 gateways and above.

- ☐ Categorize HTTPS websites
- ☐ Enforce safe search on search engines
- ☒ Categorize cached pages and translated pages in search engines

**Connection unification**

Session unification timeout (minutes)

**Application Control Web Browsing Services**

All web applications are set to be matched on the following services:

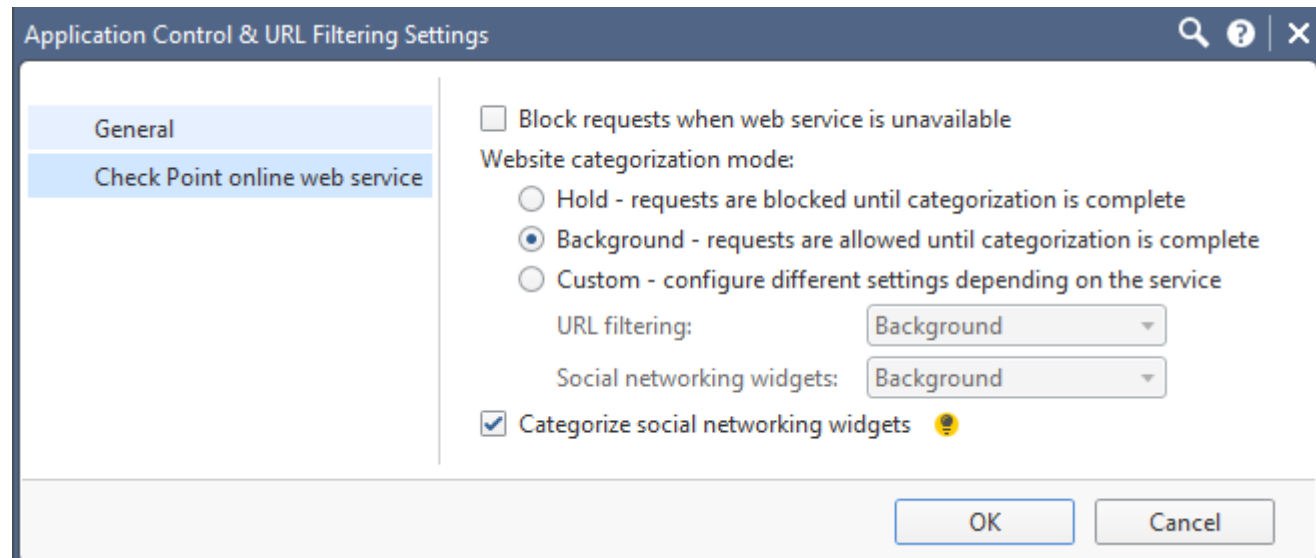
+ | ×

Name	Comments
http	Hypertext Transfer Protocol
https	HTTP protocol over TLS/SSL
HTTPS_proxy	
HTTP_proxy	

OK Cancel

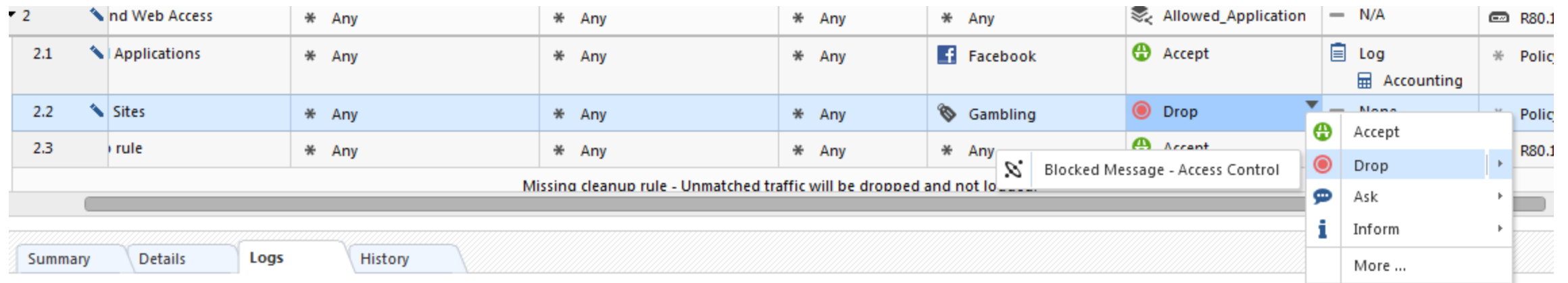
# Application Control

- Settings for Online Web Service
  - Hold
  - Background
  - Custom



# URL Filtering

- Allowing or Blocking Traffic based on category
- Block Message that can be customized.
- Blocking Gambling Sites



Rule ID	Rule Name	Source	Destination	Protocol	Application	Action	Log	Policy
2	Internet Web Access	* Any	* Any	* Any	* Any	Allowed_Application	N/A	R80.1
2.1	Applications	* Any	* Any	* Any	Facebook	Accept	Log Accounting	* Policy
2.2	Sites	* Any	* Any	* Any	Gambling	Drop		* Policy
2.3	rule	* Any	* Any	* Any	* Any	Accept		R80.1

Blocked Message - Access Control

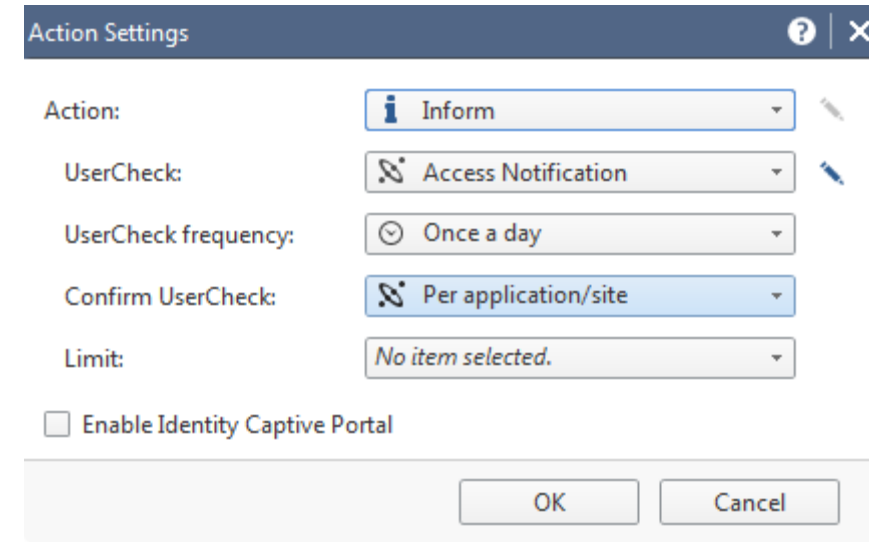
Missing cleanup rule - Unmatched traffic will be dropped and not logged

Summary Details Logs History

Context Menu Options: Accept, Drop, Ask, Inform, More ...

# URL Filtering

- Additional Options for Action Column
  - Accept
  - Drop
  - Ask
  - Inform



The image shows a screenshot of the 'Action Settings' dialog box. The dialog has a title bar with a question mark icon and a close button. It contains five rows of settings, each with a label and a dropdown menu. The 'Action' dropdown is set to 'Inform'. The 'UserCheck' dropdown is set to 'Access Notification'. The 'UserCheck frequency' dropdown is set to 'Once a day'. The 'Confirm UserCheck' dropdown is set to 'Per application/site'. The 'Limit' dropdown is set to 'No item selected.'. Below these settings is a checkbox labeled 'Enable Identity Captive Portal' which is currently unchecked. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

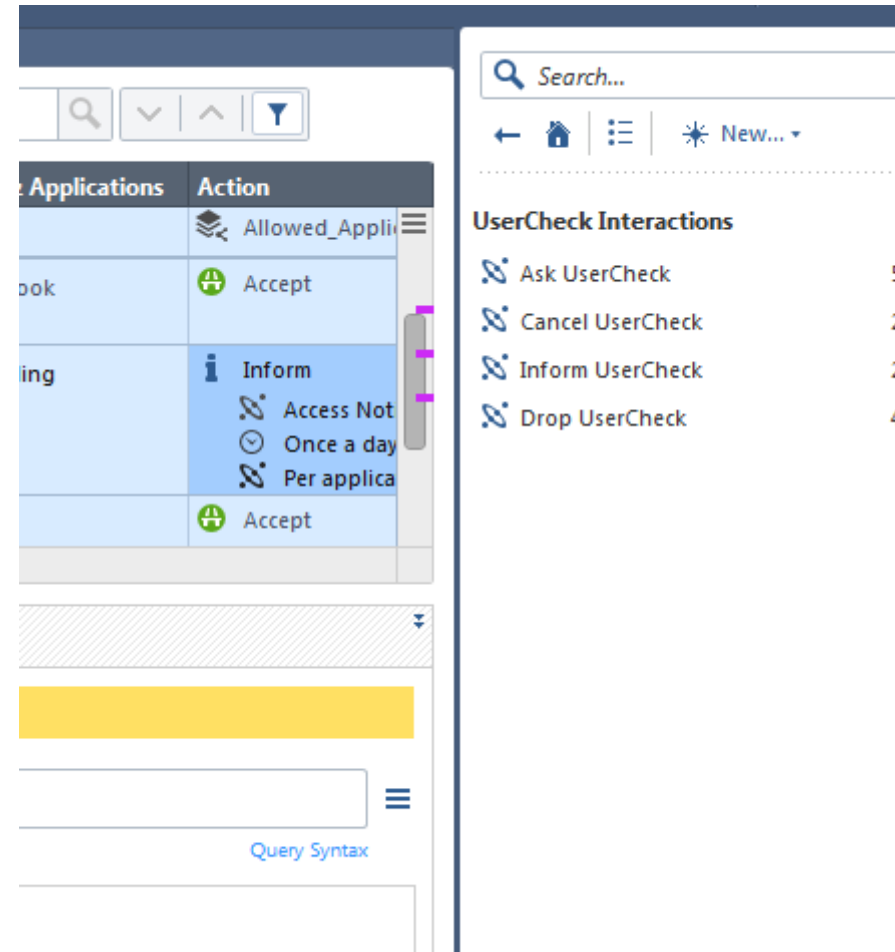
Label	Value
Action:	Inform
UserCheck:	Access Notification
UserCheck frequency:	Once a day
Confirm UserCheck:	Per application/site
Limit:	No item selected.

☐ Enable Identity Captive Portal

OK Cancel

# URL Filtering

- User Check Interactions
  - Ask UserCheck
  - Cancel UserCheck
  - Inform UserCheck
  - Drop UserCheck



The screenshot displays a web application interface for URL filtering. On the left, a table lists applications and their associated actions. On the right, a sidebar titled 'UserCheck Interactions' shows a list of actions with their respective counts.

Applications	Action
	Allowed_Appli
ook	Accept
ing	Inform
	Access Not
	Once a day
	Per applica
	Accept

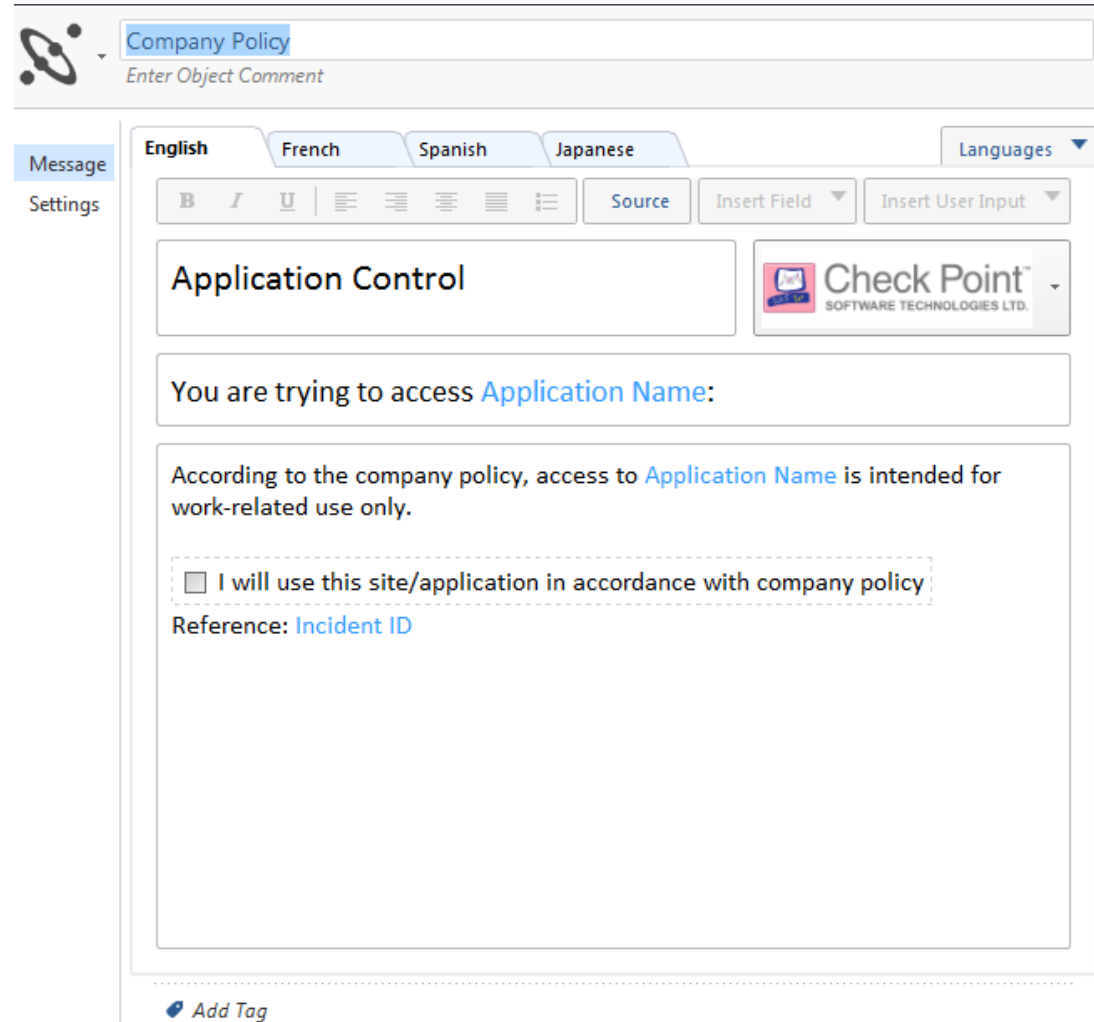
**UserCheck Interactions**

Ask UserCheck	5
Cancel UserCheck	2
Inform UserCheck	2
Drop UserCheck	4



# URL Filtering

- User Check
- Ask UserCheck
  - Company Policy Page



Company Policy


Enter Object Comment

Message

Settings

English French Spanish Japanese Languages

**B** *I* U | [List Icon] [List Icon] [List Icon] [List Icon] [List Icon] [List Icon] Source Insert Field Insert User Input


**Application Control** 

You are trying to access **Application Name**:

According to the company policy, access to **Application Name** is intended for work-related use only.

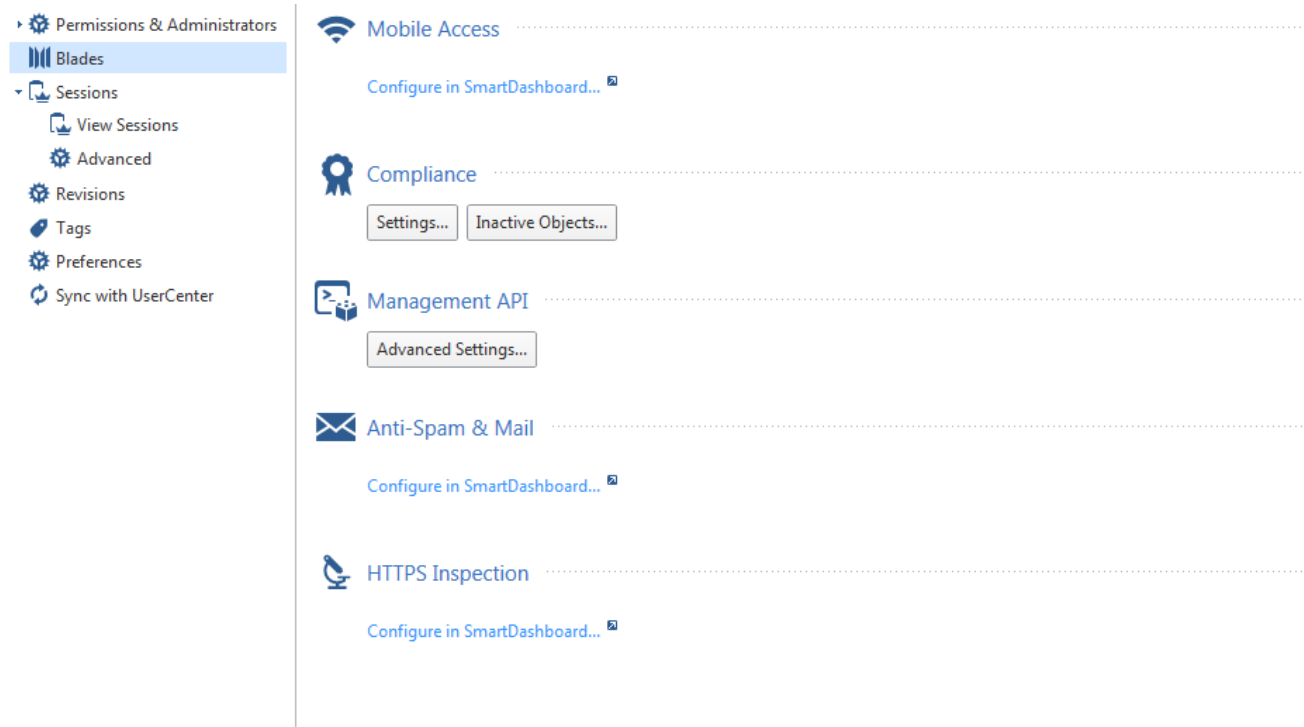
☐ I will use this site/application in accordance with company policy

Reference: **Incident ID**

 Add Tag

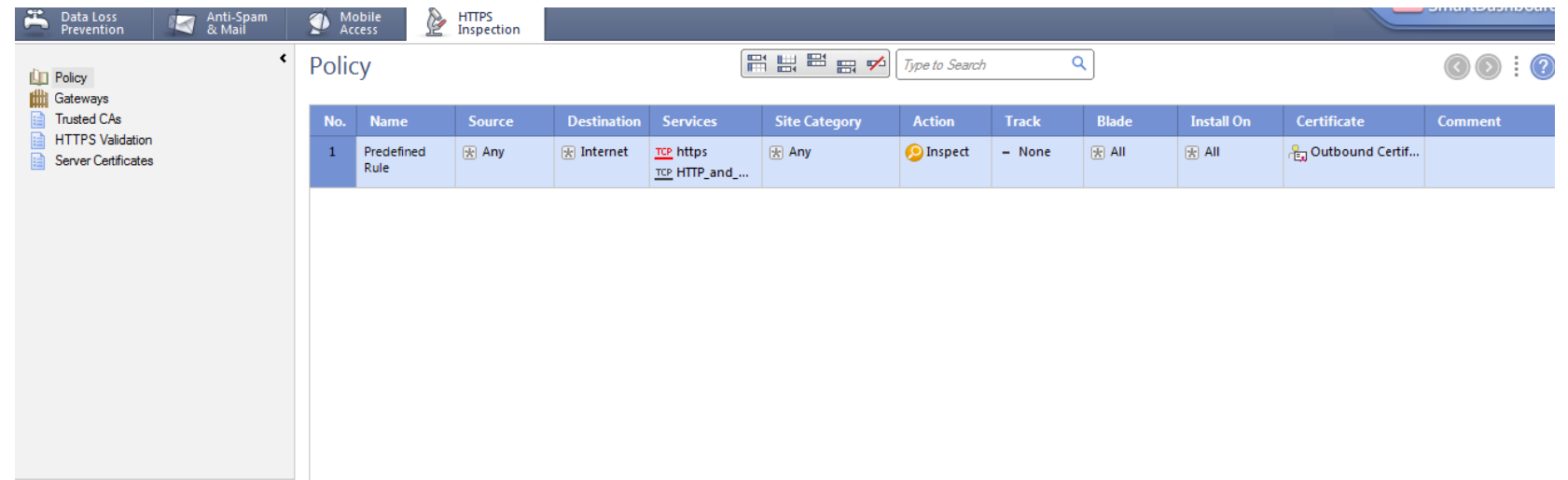
# HTTPS Inspection

- Configured in SmartDashboard
  - Legacy Dashboard Configuration



# HTTPS Inspection

- Policy
- Gateways
- Trusted CA's
- HTTPS Validation
- Server Certificates



The screenshot shows the 'Policy' configuration page for HTTPS Inspection. The sidebar on the left contains the following items:

- Policy
- Gateways
- Trusted CAs
- HTTPS Validation
- Server Certificates

The main content area displays a table of policies. The table has the following columns: No., Name, Source, Destination, Services, Site Category, Action, Track, Blade, Install On, Certificate, and Comment.

No.	Name	Source	Destination	Services	Site Category	Action	Track	Blade	Install On	Certificate	Comment
1	Predefined Rule	Any	Internet	TCP https TCP HTTP_and_...	Any	Inspect	None	All	All	Outbound Certif...	

# HTTPS Inspection Policy

- Rule Actions
  - Inspect
  - Bypass
    - Banking Sites
    - HealthCare Sites

No.	Name	Source	Destination	Services	Site Category	Action	Track	Blade	Install On	Cert
1	Predefined Rule	Any	Internet	TCP https TCP HTTP_and_...	Any	Inspect	None	All	All	
2		Any	Internet	TCP https TCP HTTP_and_...	Any	Ins...		All	All	

 Bypass  
 Inspect  
 Rule Actions ▶

# Summary

- Created and implemented an Application Control Policy
- Created a URL Filtering Policy to block undesirable web sites for employees
- Used SSL Inspection to inspect traffic to Secure Web Sites

# Bibliography

*R80.10 Next Generation Security Gateway Getting Started Guide California: USA*

*Check Point R80.10 Security Gateway Technical Administration Guide California: USA*

*R80.10 Security Management Admin Guide California: USA*