

NBP Hot Fix - June-2023

Customer Name : New Bank of People (NBP)

Customer Issue

Title: ACL Misconfiguration Blocking Legitimate Online Banking Traffic

CFD/SR/BEMS/CAP: ACS-021/-/-/-

Description:

SafeBank customers reported that they were unable to access the bank's online portal intermittently. Investigation revealed that the ASA's ACL was incorrectly blocking HTTPS traffic from a specific customer IP range. This caused disruptions in online transactions and customer complaints.

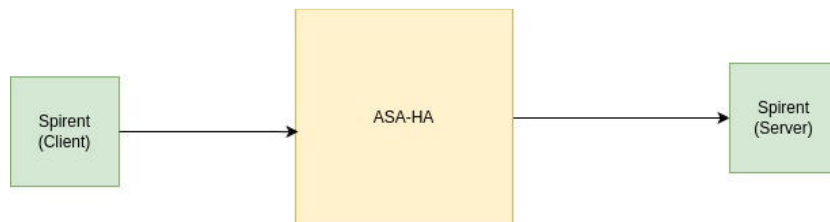
Impact:

- Intermittent denial of online banking portal access.
- Failed payment transactions due to blocked sessions.
- Increased support calls from customers, reducing trust in online services.

Environment:

- **Device:** Cisco ASA 5545-X (Firmware 9.16.2)
- **Mode:** Active/Standby HA
- **ACL Policy:** Applied inbound on *outside* interface for banking application servers
- **Network:** Dual ISP edge with load balancing

Topology



Steps to Reproduce:

1. Attempt login to the SafeBank online portal from customer subnet **198.51.100.0/24**.

2. Session fails with timeout; ASA denies packet.
3. Traffic from other subnets (`203.0.113.0/24`) works as expected.

Expected Behavior:

All legitimate customer subnets should be permitted to access banking applications over HTTPS.

Logs / Evidence:

```
1 %ASA-4-106023: Deny tcp src outside:198.51.100.45/443 dst inside:10.10.20.15/51024 by access-group "OUTSIDE-IN" [0x0, 0x0]
```

Test Report – ACL Issue

Customer Issue Reference: ACL Misconfiguration Blocking Legitimate Traffic

Test Owner: QA Team – Network Security Validation

Test Start Date: 02-June-2023

Environment: Cisco ASA 9300 Firmware 9.12(2), HA Cluster

Test End Date: 22-June-2023



Bugs Summary

Bug ID	Source	Severity	Component	Status	Description
ACS-6301	Filed	Sev-1	acl	N	ACL denies HTTPS traffic for specific subnet despite explicit permit rule.
ACS-6302	Filed	Sev-2	logging	N	Syslog messages do not clearly indicate

					ACL rule hit causing packet drop.
ACS-6303	Seen	Sev-3	asdm	U	ASDM GUI does not refresh ACL changes in real-time.
ACS-6304	Seen	Sev-2	ha	A	ACL sync failure observed during Active → Standby failover.
ACS-6305	Filed	Sev-4	platform	R	<div>show</div> <div>access</div> <div>-list</div> output order mismatch between running-config and hardware ACL.

Test Cases – ACL / HA / Logging

TC ID	Test Case Description	Priority	Status	Bug ID (if any)	Comments
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TC-201	Verify HTTPS traffic from allowed subnet 198.51.100.0/24 passes successfully.	P1	Fail	ACS-6301	Customer issue – dropped by ACL.
TC-202	Verify HTTPS traffic from explicitly denied subnet is blocked.	P1	Pass	–	Deny rule works.
TC-203	Confirm ACL logs capture correct rule hit for denied traffic.	P2	Fail	ACS-6302	Log does not show rule number.
TC-204	Verify ACL changes on Active ASA sync correctly to Standby.	P1	Fail	ACS-6304	Mismatch observed.

TC-205	Validate ACL changes reflect in ASDM immediately.	P3	Fail	ACS-6303	GUI delay in refresh.
TC-206	Check order of ACL rules in <code>show running-config</code> vs hardware ACL.	P2	Fail	ACS-6305	Rule sequence mismatch.
TC-207	Confirm online portal access from all legitimate banking customer subnets.	P1	Fail	ACS-6301	Intermittent blocks observed.
TC-208	Validate SNMP traps generated on ACL deny events.	P3	Pass	–	Traps working fine.

