



Security Threat Response Manager

Event Category Correlation Reference Guide

Release 2008.2

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Release 2008.2

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CONTENTS

ABOUT THIS GUIDE

Conventions	1
Technical Documentation	1
Documentation Feedback	1
Requesting Support	2

EVENT CATEGORY CORRELATION

About Event Category Correlation	1
High-Level Event Categories	3
Event Correlation Processing	4
Additional Event Processing	14
Recon	14
DoS	16
Authentication	18
Access	23
Exploit	24
Malware	25
Suspicious Activity	26
System	30
Policy	33
CRE	34
Potential Exploit	34
SIM Audit	35
VIS Host Discovery	36
Application	36




ABOUT THIS GUIDE

The *Event Category Correlation Reference Guide* provides you with information on how to investigate various types of security threats using the Offense Manager, Event Viewer, or Flow Viewer. You can sort offenses by category (such as, exploit, policy, or malware).

Conventions

[Table 1](#) lists conventions that are used throughout this guide.

Table 1 Icons

Icon	Type	Description
	Information note	Information that describes important features or instructions.
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, device, or network.
	Warning	Information that alerts you to potential personal injury.

Technical Documentation

You can access technical documentation, technical notes, and release notes directly from the Juniper networks Support Web site at <http://www.juniper.net/support/>.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. Send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at <http://www.juniper.net/techpubs/docbug/docbugreport.html>. If you are using e-mail, be sure to include the following information with your comments:

- Document name
- Document part number
- Page number
- Software release version

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EVENT CATEGORY CORRELATION

This document provides information on the types of event categories and the processing of events. For example, the event category determines if events will have an offense automatically created, real-time flow analysis, rate analysis, and the default correlation tests performed. This document provides information on event correlation including:

- [About Event Category Correlation](#)
- [Recon](#)
- [DoS](#)
- [Authentication](#)
- [Access](#)
- [Exploit](#)
- [Malware](#)
- [Suspicious Activity](#)
- [System](#)
- [Policy](#)
- [CRE](#)
- [Potential Exploit](#)
- [SIM Audit](#)
- [VIS Host Discovery](#)
- [Application](#)

About Event Category Correlation

An Event Processor processes events collected from one or more Event Collector(s). Once received, the Event Processor correlates the information from STRM and distributes to the appropriate Correlation Group for processing.

The Correlation Groups perform tests on the events to determine factors such as vulnerability data, relevance of the targets, importance, or credibility of the events. The results of the Correlation Group tests appear as annotations in the Offense Manager and Event Viewer. Also, custom rules are applied to additional events for specific incident recognition. Once complete, the Event Processor stores the event

in the Ariel database and, in some circumstances, performs real-time flow analysis to determine the appropriate routing of the event.

For example, [Figure 2-1](#) provides a representation of the process within the Event Processor for processing events. Once the Event Processor receives an event, the Category Router determines the appropriate Correlation Group to apply tests to the event. Once complete, the event is passed through the Custom Rules Engine to determine the custom rules that apply to the event. The event is then passed through the Ariel database for storage and the Flow Context and Routing components to determine if real-time flow analysis should be performed and if the event should automatically generate a new offense or become part of an existing offense. If this is the case, the event is sent to the Magistrate. If real-time flow analysis is requested of the event, a request is sent to the Classification Engine to determine routing.

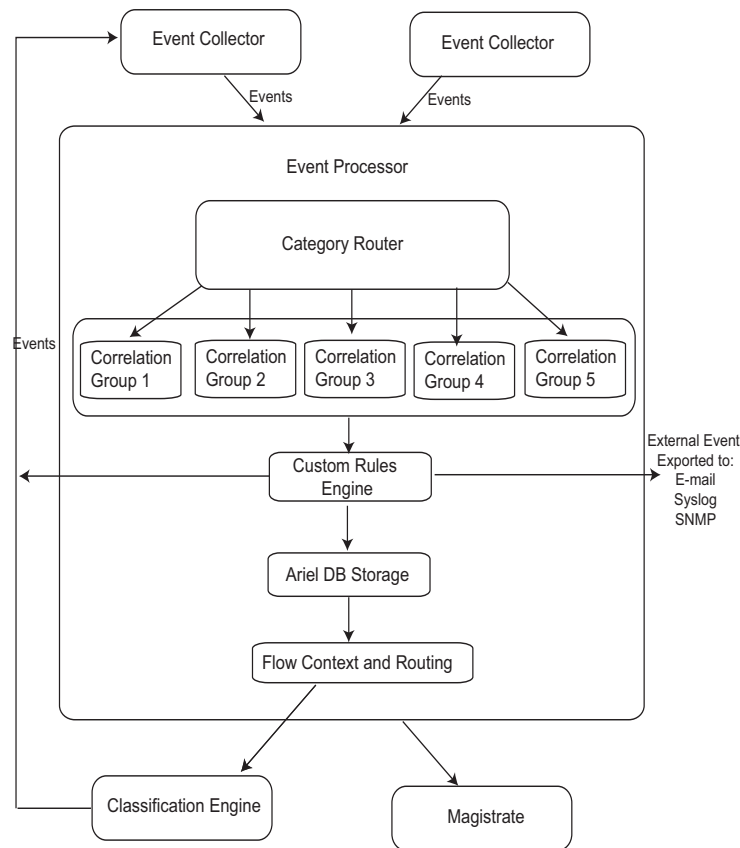


Figure 2-1 Event Category Correlation Process

This section includes:

- [High-Level Event Categories](#)
- [Event Correlation Processing](#)
- [Additional Event Processing](#)

High-Level Event Categories

The high-level event categories include:

Table 2-1 High-Level Event Categories

Category	Description
Recon	Events relating to scanning and other techniques used to identify network resources, for example, network or host port scans.
DoS	Events relating to Denial of Service (DoS) or Distributed Denial of Service (DDoS) attacks against services or hosts, for example, brute force network DoS attacks.
Authentication	Events relating to authentication controls, group, or privilege change, for example, log in or log out.
Access	Events resulting from an attempt to access network resources, for example, firewall accept or deny.
Exploit	Events relating to application exploits and buffer overflow attempts, for example, buffer overflow or web application exploits.
Malware	Events relating to viruses, trojans, back door attacks, or other forms of hostile software. This may include a virus, trojan, malicious software, or spyware.
Suspicious Activity	The nature of the threat is unknown but behavior is suspicious including protocol anomalies that potentially indicate evasive techniques, for example, packet fragmentation or known IDS evasion techniques.
System	Events related to system changes, software installation, or status messages.
Policy	Events regarding corporate policy violations or misuse.
CRE	Events generated from an offense or event rule. For more information on creating custom rules, see the <i>STRM Administration Guide</i> .
Potential Exploit	Events relating to potential application exploits and buffer overflow attempts.
SIM Audit	Events relating to user interaction with the Console and STRM Administration Console.
VIS Host Discovery	Events relating to the host, ports, or vulnerabilities that the VIS component discovers.
Application	Events relating to application activity.

Event Correlation Processing

For each event category, the Correlation Group determines the correlation rules (tests) that are performed on each event. Each test is performed and assigned a value between 0 and 10. Once all tests are complete, all test results are weighted and the data for the event is provided in the event viewer. [Table 2-2](#) provides a list of possible correlation rules (tests).

Table 2-2 Correlation Rules (Tests)

Rule	Description
Relevance of the day of the week	Determines the relevance of the day of the week for this event. For example, if the event occurs on the weekend, an attack may have a higher relevance.
Device credibility	Credibility rating can be applied on a per device basis that allows users to associate a credibility to a device based on the level of trust for the device and the validity of the produced event. For example, a highly tuned IDS in front of a key server may have a credibility of 7 while an IDS outside the corporate network may have a credibility of 3.
Event rate	Determines if the event rate of this event type is greater than normal. This is determined on a category by category basis.
Attacker	Determines if the attacker is one of the configured assets.
Target	Determines if the target is one of the configured assets.
Source port	Determines if the source port is less than 1024. If the port is less than 1024, the attacker may be attempting to fool a stateless firewall.
Attacker age	Determines the relative importance of how long the attacker has been known to the system. If the attacker is new, the relevance of this attacker increases.
Target age	Determines the relative importance of how long the target has been known to the system.
Remote attacker	Determines the relative importance of the attacker network.
Remote target	Determines the relative importance of the target network.
Target port	Determines if the target port is included in the list of most attacked ports provided by the incidents.org data.
Attacker risk	Determine the overall risk assessment value for the attacker based on the asset profile data.
Target risk	Determine the overall risk assessment value for the target.
Time of the attack	Determines the time of attack. For example, if the attack occurs in the middle of the night, which is deemed to be a low traffic time, this indicates a higher relevance of the attack.
Vulnerable targeted port	If the port is open, determine if the targeted port is vulnerable to the current exploit.
Vulnerable port	Determines if the port is vulnerable to any type of attack or exploit.
Open target port	Determines if the target port is open.

Table 2-2 Correlation Rules (Tests) (continued)

Rule	Description
Remote Target	Determines if the target network is defined as a remote network in STRM views.
Geographic Location	Determines the relative importance of the geographic location of the target.
Remote attacker	Determines if the attacker network is defined as a remote network in STRM views.
Attacker IP address	Determines if the attacker IP address is included in the list of IP addresses that are highlighted as suspicious in the Remote Services View.
Attacker port	Determines if the attacker port is included in the list of ports from which attacks originate as provided by the incidents.org data.

Each low-level event category is processed by one of five event Correlation Groups. This section provides information on the Correlation Groups including:

- [Correlation Group 1](#)
- [Correlation Group 2](#)
- [Correlation Group 3](#)
- [Correlation Group 4](#)
- [Correlation Group 5](#)

Correlation Group 1

The Correlation Group 1 correlation model provides tests for the following traffic types:

Table 2-3 Correlation Group 1 Tests

Traffic Type	Correlation Rules (Tests)
Local-to-Local	<p>Correlation Group 1 performs the following tests for Local-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Target • Source port • Target port • Cross host • Attacker age • Target age • Attacker network • Target network • Vulnerable targeted port • Attacker risk • Target risk • Time of the attack • Open target port • Vulnerable port

Note: For test details, see [Table 2-2](#).

Table 2-3 Correlation Group 1 Tests (continued)

Traffic Type	Correlation Rules (Tests)
Local-to-Remote	<p data-bbox="704 352 1308 411">Correlation Group 1 performs the following tests for Local-to-Remote traffic:</p> <ul data-bbox="704 426 1133 919" style="list-style-type: none"> <li data-bbox="704 426 1133 453">• Relevance of the day of the week <li data-bbox="704 468 938 495">• Device credibility <li data-bbox="704 510 862 537">• Event rate <li data-bbox="704 552 837 579">• Attacker <li data-bbox="704 594 878 621">• Source port <li data-bbox="704 636 870 663">• Target port <li data-bbox="704 678 889 705">• Attacker age <li data-bbox="704 720 938 747">• Attacker network <li data-bbox="704 762 886 789">• Attacker risk <li data-bbox="704 804 919 831">• Remote Target <li data-bbox="704 846 984 873">• Geographic Location <li data-bbox="704 888 951 915">• Time of the attack <p data-bbox="704 930 1141 957">Note: For test details, see Table 2-2.</p>
Remote-to-Local	<p data-bbox="704 976 1308 1035">Correlation Group 1 performs the following tests for Remote-to-Local traffic:</p> <ul data-bbox="704 1050 1133 1717" style="list-style-type: none"> <li data-bbox="704 1050 1133 1077">• Relevance of the day of the week <li data-bbox="704 1092 938 1119">• Device credibility <li data-bbox="704 1134 862 1161">• Event rate <li data-bbox="704 1176 821 1203">• Target <li data-bbox="704 1218 878 1245">• Source port <li data-bbox="704 1260 870 1287">• Target age <li data-bbox="704 1302 894 1329">• Attacker port <li data-bbox="704 1344 935 1371">• Remote attacker <li data-bbox="704 1386 971 1413">• Attacker IP address <li data-bbox="704 1428 976 1455">• Geographic location <li data-bbox="704 1470 951 1497">• Time of the attack <li data-bbox="704 1512 919 1539">• Target network <li data-bbox="704 1554 870 1581">• Target risk <li data-bbox="704 1596 935 1623">• Open target port <li data-bbox="704 1638 1024 1665">• Vulnerable targeted port <li data-bbox="704 1680 919 1707">• Vulnerable port <p data-bbox="704 1722 1141 1749">Note: For test details, see Table 2-2.</p>

Correlation Group 2

The Correlation Group 2 correlation model provides tests for the following traffic types:

Table 2-4 Correlation Group 2 Tests

Traffic Type	Correlation Rules (Tests)
Local-to-Local	<p>Correlation Group 2 performs the following tests for Local-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Target • Source port • Attacker age • Target age • Attacker network • Target port • Attacker risk • Target risk • Time of the attack • Open target port <p>Note: For test details, see Table 2-2.</p>
Local-to-Remote	<p>Correlation Group 2 performs the following tests for Local-to-Remote traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Source port • Target port • Attacker age • Attacker network • Attacker risk • Remote target • Target • Geographic location • Time of the attack <p>Note: For test details, see Table 2-2.</p>

Table 2-4 Correlation Group 2 Tests (continued)

Traffic Type	Correlation Rules (Tests)
Remote-to-Local	<p data-bbox="704 352 1308 411">Correlation Group 2 performs the following tests for Remote-to-Local traffic:</p> <ul data-bbox="704 426 1133 1045" style="list-style-type: none"> <li data-bbox="704 426 1133 453">• Relevance of the day of the week <li data-bbox="704 468 938 495">• Device credibility <li data-bbox="704 510 862 537">• Event rate <li data-bbox="704 552 818 579">• Target <li data-bbox="704 594 878 621">• Source port <li data-bbox="704 636 867 663">• Target age <li data-bbox="704 678 894 705">• Attacker port <li data-bbox="704 720 867 747">• Target port <li data-bbox="704 762 938 789">• Remote Attacker <li data-bbox="704 804 971 831">• Attacker IP address <li data-bbox="704 846 976 873">• Geographic location <li data-bbox="704 888 948 915">• Time of the attack <li data-bbox="704 930 915 957">• Target network <li data-bbox="704 972 867 999">• Target risk <li data-bbox="704 1014 932 1041">• Open target port

Note: For test details, see [Table 2-2](#).

Correlation Group 3

The Correlation Group 3 correlation model provides tests for the following traffic types:

Table 2-5 Correlation Group 3 Tests

Traffic Type	Correlation Rules (Tests)
Local-to-Local	<p>Correlation Group 3 performs the following tests for Local-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Target • Source port • Attacker age • Target age • Attacker network • Target network • Target port • Attacker risk • Target risk • Time of the attack <p>Note: For test details, see Table 2-2.</p>
Local-to-Remote	<p>Correlation Group 3 performs the following tests for Local-to-Remote traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Source port • Target port • Attacker age • Attacker network • Attacker risk • Geographic location • Time of the attack <p>Note: For test details, see Table 2-2.</p>

Table 2-5 Correlation Group 3 Tests (continued)

Traffic Type	Correlation Rules (Tests)
Remote-to-Local	<p data-bbox="704 352 1308 411">Correlation Group 3 performs the following tests for Remote-to-Local traffic:</p> <ul data-bbox="704 426 1133 1003" style="list-style-type: none"><li data-bbox="704 426 1133 453">• Relevance of the day of the week<li data-bbox="704 468 938 495">• Device credibility<li data-bbox="704 510 862 537">• Event rate<li data-bbox="704 552 818 579">• Target<li data-bbox="704 594 878 621">• Source port<li data-bbox="704 636 867 663">• Target age<li data-bbox="704 678 889 705">• Attacker port<li data-bbox="704 720 867 747">• Target port<li data-bbox="704 762 971 789">• Attacker IP address<li data-bbox="704 804 976 831">• Geographic location<li data-bbox="704 846 951 873">• Time of the attack<li data-bbox="704 888 915 915">• Target network<li data-bbox="704 930 867 957">• Target risk<li data-bbox="704 972 935 999">• Remote attacker <p data-bbox="704 1014 1141 1041">Note: For test details, see Table 2-2.</p>

Correlation Group 4

The Correlation Group 4 correlation model provides tests for the following traffic types:

Table 2-6 Correlation Group 4 Tests

Traffic Type	Correlation Rules (Tests)
Local-to-Local	<p>Correlation Group 4 performs the following tests for Local-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Target • Attacker age • Target age • Attacker network • Target network • Time of the attack <p>Note: For test details, see Table 2-2.</p>
Local-to-Remote	<p>Correlation Group 4 performs the following tests for Local-to-Remote traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Attacker age • Attacker network • Remote Target • Geographic location • Time of the attack <p>Note: For test details, see Table 2-2.</p>

Table 2-6 Correlation Group 4 Tests (continued)

Traffic Type	Correlation Rules (Tests)
Remote-to-Local	<p>Correlation Group 4 performs the following tests for Remote-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Target • Target age • Attacker port • Remote attacker • Geographic location • Time of the attack • Target network • Vulnerable port <p>Note: For test details, see Table 2-2.</p>

Correlation Group 5

The Correlation Group 5 correlation model provides tests for the following traffic types:

Table 2-7 Correlation Group 5 Tests

Traffic Type	Correlation Rules (Tests)
Local-to-Local	<p>Correlation Group 5 performs the following tests for Local-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker • Target • Attacker network • Target network • Time of the attack <p>Note: For test details, see Table 2-2.</p>

Table 2-7 Correlation Group 5 Tests (continued)

Traffic Type	Correlation Rules (Tests)
Local-to-Remote	<p>Correlation Group 5 performs the following tests for Local-to-Remote traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Attacker network • Time of the attack <p>Note: For test details, see Table 2-2.</p>
Remote-to-Local	<p>Correlation Group 5 performs the following tests for Remote-to-Local traffic:</p> <ul style="list-style-type: none"> • Relevance of the day of the week • Device credibility • Event rate • Target • Target network • Time of the attack <p>Note: For test details, see Table 2-2.</p>

Additional Event Processing

Each event is processed using one of the following scenarios:

- **Scenario 1** - Event information is forwarded to the Magistrate component by automatically creating offenses. Even though offenses are created automatically, no real-time flow analysis is performed. Events are stored in the Event Processor.
- **Scenario 2** - Events are stored in the Event Processor. Offenses are not automatically created and no flow analysis is performed.

Recon

The Recon category indicates events relating to scanning and other techniques used to identify network resources. The associated low-level event categories include:

Table 2-8 Recon Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Form of Recon	Indicates an unknown form of reconnaissance.	2	Correlation Group 2	Scenario 2
Application Query	Indicates reconnaissance to applications on your system.	3	Correlation Group 2	Scenario 2

Table 2-8 Recon Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Host Query	Indicates reconnaissance to a host in your network.	3	Correlation Group 2	Scenario 2
Network Sweep	Indicates reconnaissance on your network.	4	Correlation Group 2	Scenario 2
Mail Reconnaissance	Indicates reconnaissance on your mail system.	3	Correlation Group 2	Scenario 2
Windows Reconnaissance	Indicates reconnaissance for windows.	3	Correlation Group 2	Scenario 2
Portmap / RPC Request	Indicates reconnaissance on your portmap or RPC request.	3	Correlation Group 2	Scenario 2
Host Port Scan	Indicates a scan occurred on the host's ports.	4	Correlation Group 2	Scenario 2
RPC Dump	Indicates Remote Procedure Call (RPC) information is removed.	3	Correlation Group 2	Scenario 2
DNS Reconnaissance	Indicates reconnaissance on the DNS server.	3	Correlation Group 2	Scenario 2
Misc Reconnaissance Event	Indicates a miscellaneous reconnaissance event.	2	Correlation Group 2	Scenario 2
Web Reconnaissance	Indicates web reconnaissance on your network.	3	Correlation Group 2	Scenario 2
Database Reconnaissance	Indicates database reconnaissance on your network.	3	Correlation Group 2	Scenario 2
ICMP Reconnaissance	Indicates reconnaissance on ICMP traffic.	3	Correlation Group 2	Scenario 2
UDP Reconnaissance	Indicates reconnaissance on UDP traffic.	3	Correlation Group 2	Scenario 2
SNMP Reconnaissance	Indicates reconnaissance on SNMP traffic.	3	Correlation Group 2	Scenario 2
ICMP Host Query	Indicates an ICMP host query.	3	Correlation Group 2	Scenario 2
UDP Host Query	Indicates a UDP host query.	3	Correlation Group 2	Scenario 2
NMAP Reconnaissance	Indicates NMAP reconnaissance.	3	Correlation Group 2	Scenario 2
TCP Reconnaissance	Indicates TCP reconnaissance on your network.	3	Correlation Group 2	Scenario 2
Unix Reconnaissance	Indicates reconnaissance on your UNIX network.	3	Correlation Group 2	Scenario 2
FTP Reconnaissance	Indicates FTP reconnaissance.	3	Correlation Group 2	Scenario 2

DoS The DoS category indicates events relating to Denial Of Service (DoS) attacks against services or hosts. The associated low-level event categories include:

Table 2-9 DoS Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown DoS Attack	Indicates an unknown DoS attack.	8	Correlation Group 2	Scenario 2
ICMP DoS	Indicates an ICMP DoS attack.	9	Correlation Group 2	Scenario 2
TCP DoS	Indicates a TCP DoS attack.	9	Correlation Group 2	Scenario 2
UDP DoS	Indicates a UDP DoS attack.	9	Correlation Group 2	Scenario 2
DNS Service DoS	Indicates a DNS service DoS attack.	8	Correlation Group 2	Scenario 2
Web Service DoS	Indicates a web service DoS attack.	8	Correlation Group 2	Scenario 2
Mail Service DoS	Indicates a mail server DoS attack.	8	Correlation Group 2	Scenario 2
Distributed DoS	Indicates a distributed DoS attack.	9	Correlation Group 2	Scenario 2
Misc DoS	Indicates a miscellaneous DoS attack.	8	Correlation Group 2	Scenario 2
Unix DoS	Indicates a Unix DoS attack.	8	Correlation Group 2	Scenario 2
Windows DoS	Indicates a Windows DoS attack.	8	Correlation Group 2	Scenario 2
Database DoS	Indicates a database DoS attack.	8	Correlation Group 2	Scenario 2
FTP DoS	Indicates an FTP DoS attack.	8	Correlation Group 2	Scenario 2
Infrastructure DoS	Indicates a DoS attack on the infrastructure.	8	Correlation Group 2	Scenario 2
Telnet DoS	Indicates a Telnet DoS attack.	8	Correlation Group 2	Scenario 2
Brute Force Login	Indicates access to your system through unauthorized methods.	8	Correlation Group 2	Scenario 2
High Rate TCP DoS	Indicates a high rate TCP DoS attack.	8	Correlation Group 2	Scenario 2
High Rate UDP DoS	Indicates a high rate UDP DoS attack.	8	Correlation Group 2	Scenario 2
High Rate ICMP DoS	Indicates a high rate ICMP DoS attack.	8	Correlation Group 2	Scenario 2
High Rate DoS	Indicates a high rate DoS attack.	8	Correlation Group 2	Scenario 2
Medium Rate TCP DoS	Indicates a medium rate TCP attack.	8	Correlation Group 2	Scenario 2
Medium Rate UDP DoS	Indicates a medium rate UDP attack.	8	Correlation Group 2	Scenario 2
Medium Rate ICMP DoS	Indicates a medium rate ICMP attack.	8	Correlation Group 2	Scenario 2

Table 2-9 DoS Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Medium Rate DoS	Indicates a medium rate DoS attack.	8	Correlation Group 2	Scenario 2
Medium Rate DoS	Indicates a medium rate DoS attack.	8	Correlation Group 2	Scenario 2
Low Rate TCP DoS	Indicates a low rate TCP DoS attack.	8	Correlation Group 2	Scenario 2
Low Rate UDP DoS	Indicates a low rate UDP DoS attack.	8	Correlation Group 2	Scenario 2
Low Rate ICMP DoS	Indicates a low rate ICMP DoS attack.	8	Correlation Group 2	Scenario 2
Low Rate DoS	Indicates a low rate DoS attack.	8	Correlation Group 2	Scenario 2
Distributed High Rate TCP DoS	Indicates a distributed high rate TCP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed High Rate UDP DoS	Indicates a distributed high rate UDP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed High Rate ICMP DoS	Indicates a distributed high rate ICMP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed High Rate DoS	Indicates a distributed high rate DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Medium Rate TCP DoS	Indicates a distributed medium rate TCP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Medium Rate UDP DoS	Indicates a distributed medium rate UDP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Medium Rate ICMP DoS	Indicates a distributed medium rate ICMP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Medium Rate DoS	Indicates a distributed medium rate DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Low Rate TCP DoS	Indicates a distributed low rate TCP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Low Rate UDP DoS	Indicates a distributed low rate UDP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Low Rate ICMP DoS	Indicates a distributed low rate ICMP DoS attack.	8	Correlation Group 2	Scenario 2
Distributed Low Rate DoS	Indicates a distributed low rate DoS attack.	8	Correlation Group 2	Scenario 2
High Rate TCP Scan	Indicates a high rate TCP scan.	8	Correlation Group 2	Scenario 2
High Rate UDP Scan	Indicates a high rate UDP scan.	8	Correlation Group 2	Scenario 2
High Rate ICMP Scan	Indicates a high rate ICMP scan.	8	Correlation Group 2	Scenario 2

Table 2-9 DoS Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
High Rate Scan	Indicates a high rate scan.	8	Correlation Group 2	Scenario 2
Medium Rate TCP Scan	Indicates a medium rate TCP scan.	8	Correlation Group 2	Scenario 2
Medium Rate UDP Scan	Indicates a medium rate UDP scan.	8	Correlation Group 2	Scenario 2
Medium Rate ICMP Scan	Indicates a medium rate ICMP scan.	8	Correlation Group 2	Scenario 2
Medium Rate Scan	Indicates a medium rate scan.	8	Correlation Group 2	Scenario 2
Low Rate TCP Scan	Indicates a low rate TCP scan.	8	Correlation Group 2	Scenario 2
Low Rate UDP Scan	Indicates a low rate UDP scan.	8	Correlation Group 2	Scenario 2
Low Rate ICMP Scan	Indicates a low rate ICMP scan.	8	Correlation Group 2	Scenario 2
Low Rate Scan	Indicates a low rate scan.	8	Correlation Group 2	Scenario 2
VoIP DoS	Indicates a VoIP DoS attack	8	Correlation Group 2	Scenario 2

Authentication

The authentication category indicates events relating to authentication and access controls. The associated low-level event categories include:

Table 2-10 Authentication Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Authentication	Indicates unknown authentication	1	Correlation Group 3	Scenario 2
Host Login Succeeded	Indicates the host login was successful.	1	Correlation Group 3	Scenario 2
Host Login Failed	Indicates the host login failed.	3	Correlation Group 3	Scenario 2
Misc Login Succeeded	Indicates that the login sequence succeeded.	1	Correlation Group 3	Scenario 2
Misc Login Failed	Indicates that login sequence failed.	3	Correlation Group 3	Scenario 2
Privilege Escalation Failed	Indicates that the privileged escalation failed.	3	Correlation Group 3	Scenario 2
Privilege Escalation Succeeded	Indicates that the privilege escalation succeeded.	1	Correlation Group 3	Scenario 2
Mail Service Login Succeeded	Indicates that the mail service login succeeded.	1	Correlation Group 3	Scenario 2

Table 2-10 Authentication Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Mail Service Login Failed	Indicates that the mail service login failed.	3	Correlation Group 3	Scenario 2
Auth Server Login Failed	Indicates that the authentication server login failed.	3	Correlation Group 3	Scenario 2
Auth Server Login Succeeded	Indicates that the authentication server login succeeded.	1	Correlation Group 3	Scenario 2
Web Service Login Succeeded	Indicates that the web service login succeeded.	1	Correlation Group 3	Scenario 2
Web Service Login Failed	Indicates that the web service login failed.	3	Correlation Group 3	Scenario 2
Admin Login Successful	Indicates the administrative login was successful.	1	Correlation Group 3	Scenario 2
Admin Login Failure	Indicates the administrative login failed.	3	Correlation Group 3	Scenario 2
Suspicious Username	Indicates that a user attempted to access the network using an incorrect username.	4	Correlation Group 3	Scenario 2
Login with username/ password defaults successful	Indicates that a user accessed the network using the default username and password.	4	Correlation Group 3	Scenario 2
Login with username/ password defaults failed	Indicates that a user was unsuccessful accessing the network using the default username and password.	4	Correlation Group 3	Scenario 2
FTP Login Succeeded	Indicates that the FTP login was successful.	1	Correlation Group 3	Scenario 2
FTP Login Failed	Indicates that the FTP login failed.	3	Correlation Group 3	Scenario 2
SSH Login Succeeded	Indicates that the SSH login was successful.	1	Correlation Group 3	Scenario 2
SSH Login Failed	Indicates that the SSH login failed.	2	Correlation Group 3	Scenario 2
User Right Assigned	Indicates that user access to network resources was successfully granted.	1	Correlation Group 3	Scenario 2
User Right Removed	Indicates that user access to network resources was successfully removed.	1	Correlation Group 3	Scenario 2
Trusted Domain Added	Indicates that a trusted domain was successfully added to your deployment.	1	Correlation Group 3	Scenario 2
Trusted Domain Removed	Indicates that a trusted domain was removed from your deployment.	1	Correlation Group 3	Scenario 2

Table 2-10 Authentication Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
System Security Access Granted	Indicates that system security access was successfully granted.	1	Correlation Group 3	Scenario 2
System Security Access Removed	Indicates that system security access was successfully removed.	1	Correlation Group 3	Scenario 2
Policy Added	Indicates that a policy was successfully added.	1	Correlation Group 3	Scenario 2
Policy Change	Indicates that a policy was successfully changed.	1	Correlation Group 3	Scenario 2
User Account Added	Indicates that a user account was successfully added.	1	Correlation Group 3	Scenario 2
User Account Changed	Indicates a change to an existing user account.	1	Correlation Group 3	Scenario 2
Password Change Failed	Indicates that an attempt to change an existing password failed.	3	Correlation Group 3	Scenario 2
Password Change Succeeded	Indicates that a password change was successful.	1	Correlation Group 3	Scenario 2
User Account Removed	Indicates that a user account was successfully removed.	1	Correlation Group 3	Scenario 2
Group Member Added	Indicates that a group member was successfully added.	1	Correlation Group 3	Scenario 2
Group Member Removed	Indicates that a group member was removed.	1	Correlation Group 3	Scenario 2
Group Added	Indicates that a group was successfully added.	1	Correlation Group 3	Scenario 2
Group Changed	Indicates a change to an existing group.	1	Correlation Group 3	Scenario 2
Group Removed	Indicates a group was removed.	1	Correlation Group 3	Scenario 2
Computer Account Added	Indicates a computer account has been successfully added.	1	Correlation Group 3	Scenario 2
Computer Account Changed	Indicates a change to an existing computer account.	1	Correlation Group 3	Scenario 2
Computer Account Removed	Indicates a computer account has been successfully removed.	1	Correlation Group 3	Scenario 2
Remote Access Login Succeeded	Indicates that access to the network using a remote login was successful.	1	Correlation Group 3	Scenario 2
Remote Access Login Failed	Indicates that an attempt to access the network using a remote login failed.	3	Correlation Group 3	Scenario 2

Table 2-10 Authentication Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
General Authentication Successful	Indicates that the authentication processes was successful	1	Correlation Group 3	Scenario 2
General Authentication Failed	Indicates that the authenticating process failed.	3	Correlation Group 3	Scenario 2
Telnet Login Succeeded	Indicates that the telnet login was successful.	1	Correlation Group 3	Scenario 2
Telnet Login Failed	Indicates that the telnet login failed.	3	Correlation Group 3	Scenario 2
Suspicious Password	Indicates that a user attempted to login using a suspicious password.	4	Correlation Group 3	Scenario 2
Samba Login Successful	Indicates a user successfully logged in using Samba.	1	Correlation Group 3	Scenario 2
Samba Login Failed	Indicates user login failed using Samba.	3	Correlation Group 3	Scenario 2
Auth Server Session Opened	Indicates that a communication session with the authentication server was started.	1	Correlation Group 3	Scenario 2
Auth Server Session Closed	Indicates that a communication session with the authentication server was closed.	1	Correlation Group 3	Scenario 2
Firewall Session Closed	Indicates that a firewall session was closed.	1	Correlation Group 3	Scenario 2
Host Logout	Indicates that a host successfully logged out.	1	Correlation Group 3	Scenario 2
Misc Logout	Indicates that a user successfully logged out.	1	Correlation Group 3	Scenario 2
Auth Server Logout	Indicates that the process to log out of the authentication server was successful.	1	Correlation Group 3	Scenario 2
Web Service Logout	Indicates that the process to log out of the web service was successful.	1	Correlation Group 3	Scenario 2
Admin Logout	Indicates that the administrative user successfully logged out.	1	Correlation Group 3	Scenario 2
FTP Logout	Indicates that the process to log out of the FTP service was successful.	1	Correlation Group 3	Scenario 2
SSH Logout	Indicates that the process to log out of the SSH session was successful.	1	Correlation Group 3	Scenario 2

Table 2-10 Authentication Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Remote Access Logout	Indicates that the process to log out using remote access was successful.	1	Correlation Group 3	Scenario 2
Telnet Logout	Indicates that the process to log out of the Telnet session was successful.	1	Correlation Group 3	Scenario 2
Samba Logout	Indicates that the process to log out of Samba was successful.	1	Correlation Group 3	Scenario 2
SSH Session Started	Indicates that the SSH login session has been initiated on a host.	1	Correlation Group 5	Scenario 2
SSH Session Finished	Indicates the termination of an SSH login session on a host.	1	Correlation Group 5	Scenario 2
Admin Session Started	Indicates that a login session has been initiated on a host by an administrative or privileged user.	1	Correlation Group 5	Scenario 2
Admin Session Finished	Indicates the termination of an administrator or privileged users login session on a host.	1	Correlation Group 5	Scenario 2
VoIP Login Succeeded	Indicates a successful VoIP service login	1	Correlation Group 3	Scenario 2
VoIP Login Failed	Indicates an unsuccessful attempt to access VoIP service.	1	Correlation Group 3	Scenario 2
VoIP Logout	Indicates a user logout,	1	Correlation Group 3	Scenario 2
VoIP Session Initiated	Indicates the beginning of a VoIP session.	1	Correlation Group 3	Scenario 2
VoIP Session Terminated	Indicates the end of a VoIP session.	1	Correlation Group 3	Scenario 2
Database Login Succeeded	Indicates a successful database login.	1	Correlation Group 3	Scenario 2
Database Login Failure	Indicates that a database login attempt failed.	3	Correlation Group 3	Scenario 2

Access The access category indicates events relating to authentication and access controls. The associated low-level event categories include:

Table 2-11 Access Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Network Communication Event	Indicates an unknown network communication event.	3	Correlation Group 3	Scenario 2
Firewall Permit	Indicates access to the firewall was permitted.	0	Correlation Group 3	Scenario 2
Firewall Deny	Indicates access to the firewall was denied.	4	Correlation Group 3	Scenario 2
Flow Context Response	Indicates events from the Classification Engine in response to a SIM request.	5	No event pass-through	Scenario 2
Misc Network Communication Event	Indicates a miscellaneous communications event.	3	Correlation Group 3	Scenario 2
IPS Deny	Indicates Intrusion Prevention Systems (IPS) denied traffic.	4	Correlation Group 3	Scenario 2
Firewall Session Opened	Indicates the firewall session has been opened.	0	Correlation Group 3	Scenario 2
Firewall Session Closed	Indicates the firewall session has been closed.	0	Correlation Group 3	Scenario 2
Dynamic Address Translation Successful	Indicates that dynamic address translation was successful.	0	Correlation Group 3	Scenario 2
No Translation Group Found	Indicates that no translation group has been found.	2	Correlation Group 3	Scenario 2
Misc Authorization	Indicates that access was granted to a miscellaneous authentication server.	2	Correlation Group 3	Scenario 2
ACL Permit	Indicates that an ACL was permitted access.	0	Correlation Group 3	Scenario 2
ACL Deny	Indicates that an ACL was denied access.	4	Correlation Group 3	Scenario 2
Access Permitted	Indicates that access was permitted.	0	Correlation Group 3	Scenario 2
Access Denied	Indicates that access was denied.	4	Correlation Group 3	Scenario 2
Session Opened	Indicates that a session was opened	1	Correlation Group 3	Scenario 2
Session Closed	Indicates that a session was closed.	1	Correlation Group 3	Scenario 2

Table 2-11 Access Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Session Reset	Indicates that a session was reset.	3	Correlation Group 3	Scenario 2
Session Terminated	Indicates that a session was terminated.	4	Correlation Group 3	Scenario 2
Session Denied	Indicates that a session was denied.	5	Correlation Group 3	Scenario 2
Session in Progress	Indicates that a session is currently in progress.	1	Correlation Group 3	Scenario 2
Session Delayed	Indicates that a session was delayed.	3	Correlation Group 3	Scenario 2
Session Queued	Indicates that a session was queued.	1	Correlation Group 3	Scenario 2
Session Inbound	Indicates that a session is inbound.	1	Correlation Group 3	Scenario 2
Session Outbound	Indicates that a session is outbound.	1	Correlation Group 3	Scenario 2
Unauthorized Access Attempt	Indicates that an unauthorized access attempt was detected.	1	Correlation Group 3	Scenario 2

Exploit The exploit category indicates events where a communication or access has occurred. The associated low-level event categories include:

Table 2-12 Exploit Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Exploit Attack	Indicates an unknown exploit attack.	9	Correlation Group 1	Scenario 2
Buffer Overflow	Indicates a buffer overflow.	9	Correlation Group 1	Scenario 2
DNS Exploit	Indicates a DNS exploit.	9	Correlation Group 1	Scenario 2
Telnet Exploit	Indicates a Telnet exploit.	9	Correlation Group 1	Scenario 2
Linux Exploit	Indicates a Linux exploit.	9	Correlation Group 1	Scenario 2
Unix Exploit	Indicates a Unix exploit.	9	Correlation Group 1	Scenario 2
Windows Exploit	Indicates a Windows exploit.	9	Correlation Group 1	Scenario 2
Mail Exploit	Indicates a mail server exploit.	9	Correlation Group 1	Scenario 2
Infrastructure Exploit	Indicates an infrastructure exploit.	9	Correlation Group 1	Scenario 2
Misc Exploit	Indicates a miscellaneous exploit.	9	Correlation Group 1	Scenario 2
Web Exploit	Indicates a web exploit.	9	Correlation Group 1	Scenario 2

Table 2-12 Exploit Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Session Hijack	Indicates a session in your network has been interceded.	9	Correlation Group 2	Scenario 2
Worm Active	Indicates an active worm.	10	Correlation Group 1	Scenario 2
Password Guess/Retrieve	Indicates that a user has requested access to their password information from the database.	9	Correlation Group 2	Scenario 2
FTP Exploit	Indicates an FTP exploit.	9	Correlation Group 1	Scenario 2
RPC Exploit	Indicates an RPC exploit.	9	Correlation Group 1	Scenario 2
SNMP Exploit	Indicates an SNMP exploit.	9	Correlation Group 1	Scenario 2
NOOP Exploit	Indicates an NOOP exploit.	9	Correlation Group 1	Scenario 2
Samba Exploit	Indicates an Samba exploit.	9	Correlation Group 1	Scenario 2
Database Exploit	Indicates a database exploit.	9	Correlation Group 1	Scenario 2
SSH Exploit	Indicates an SSH exploit.	9	Correlation Group 1	Scenario 2
ICMP Exploit	Indicates an ICMP exploit.	9	Correlation Group 1	Scenario 2
UDP Exploit	Indicates a UDP exploit.	9	Correlation Group 1	Scenario 2
Browser Exploit	Indicates an exploit on your browser.	9	Correlation Group 1	Scenario 2
DHCP Exploit	Indicates a DHCP exploit	9	Correlation Group 1	Scenario 2
Remote Access Exploit	Indicates a remote access exploit	9	Correlation Group 1	Scenario 2
ActiveX Exploit	Indicates an exploit through an ActiveX application.	9	Correlation Group 1	Scenario 2
SQL Injection	Indicates that an SQL injection has occurred.	9	Correlation Group 1	Scenario 2

Malware The malicious software (malware) category indicates events relating to application exploits and buffer overflow attempts. The associated low-level event categories include:

Table 2-13 Malware Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Malware	Indicates an unknown virus.	4	Correlation Group 2	Scenario 2
Backdoor Detected	Indicates that a backdoor to the system has been detected.	9	Correlation Group 2	Scenario 2
Hostile Mail Attachment	Indicates a hostile mail attachment.	6	Correlation Group 2	Scenario 2
Malicious Software	Indicates a virus.	6	Correlation Group 2	Scenario 2

Table 2-13 Malware Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Hostile Software Download	Indicates a hostile software download to your network.	6	Correlation Group 2	Scenario 2
Virus Detected	Indicates a virus has been detected.	8	Correlation Group 2	Scenario 2
Misc Malware	Indicates miscellaneous malicious software	4	Correlation Group 2	Scenario 2
Trojan Detected	Indicates a trojan has been detected.	7	Correlation Group 2	Scenario 2
Spyware Detected	Indicates spyware has been detected on your system.	6	Correlation Group 2	Scenario 2
Content Scan	Indicates that an attempted scan of your content has been detected.	3	Correlation Group 2	Scenario 2
Content Scan Failed	Indicates that a scan of your content has failed.	8	Correlation Group 2	Scenario 2
Content Scan Successful	Indicates that a scan of your content was successful.	3	Correlation Group 2	Scenario 2
Content Scan in Progress	Indicates that a scan of your content is currently in progress.	3	Correlation Group 2	Scenario 2
Keylogger	Indicates that a key logger has been detected.	7	Correlation Group 2	Scenario 2

Suspicious Activity The suspicious activity category indicates events relating to viruses, trojans, back door attacks, and other forms of hostile software. The associated low-level event categories include:

Table 2-14 Suspicious Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Suspicious Event	Indicates an unknown suspicious event.	3	Correlation Group 2	Scenario 2
Suspicious Pattern Detected	Indicates a suspicious pattern has been detected.	3	Correlation Group 2	Scenario 2
Content Modified By Firewall	Indicates that content has been modified by the firewall.	3	Correlation Group 2	Scenario 2
Invalid Command or Data	Indicates an invalid command or data.	3	Correlation Group 2	Scenario 2
Suspicious Packet	Indicates a suspicious packet.	3	Correlation Group 2	Scenario 2
Suspicious Activity	Indicates suspicious activity.	3	Correlation Group 2	Scenario 2

Table 2-14 Suspicious Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Suspicious File Name	Indicates a suspicious file name.	3	Correlation Group 2	Scenario 2
Suspicious Port Activity	Indicates suspicious port activity.	3	Correlation Group 2	Scenario 2
Suspicious Routing	Indicates suspicious routing.	3	Correlation Group 2	Scenario 2
Potential Web Vulnerability	Indicates potential web vulnerability.	3	Correlation Group 2	Scenario 2
Unknown Evasion Event	Indicates an unknown evasion event.	5	Correlation Group 2	Scenario 2
IP Spoof	Indicates an IP spoof.	5	Correlation Group 2	Scenario 2
IP Fragmentation	Indicates IP fragmentation.	3	Correlation Group 2	Scenario 2
Overlapping IP Fragments	Indicates overlapping IP fragments.	5	Correlation Group 2	Scenario 2
IDS Evasion	Indicates an IDS evasion.	5	Correlation Group 2	Scenario 2
DNS Protocol Anomaly	Indicates a DNS protocol anomaly.	3	Correlation Group 2	Scenario 2
FTP Protocol Anomaly	Indicates an FTP protocol anomaly.	3	Correlation Group 2	Scenario 2
Mail Protocol Anomaly	Indicates a mail protocol anomaly.	3	Correlation Group 2	Scenario 2
Routing Protocol Anomaly	Indicates a routing protocol anomaly.	3	Correlation Group 2	Scenario 2
Web Protocol Anomaly	Indicates a web protocol anomaly.	3	Correlation Group 2	Scenario 2
SQL Protocol Anomaly	Indicates an SQL protocol anomaly.	3	Correlation Group 2	Scenario 2
Executable Code Detected	Indicates that an executable code has been detected.	5	Correlation Group 2	Scenario 2
Misc Suspicious Event	Indicates a miscellaneous suspicious event.	3	Correlation Group 2	Scenario 2
Information Leak	Indicates an information leak.	1	Correlation Group 2	Scenario 2
Potential Mail Vulnerability	Indicates a potential vulnerability in the mail server.	4	Correlation Group 2	Scenario 2
Potential Version Vulnerability	Indicates a potential vulnerability in the STRM version.	4	Correlation Group 2	Scenario 2
Potential FTP Vulnerability	Indicates a potential FTP vulnerability.	4	Correlation Group 2	Scenario 2
Potential SSH Vulnerability	Indicates a potential SSH vulnerability.	4	Correlation Group 2	Scenario 2
Potential DNS Vulnerability	Indicates a potential vulnerability in the DNS server.	4	Correlation Group 2	Scenario 2

Table 2-14 Suspicious Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Potential SMB Vulnerability	Indicates a potential SMB (Samba) vulnerability.	4	Correlation Group 2	Scenario 2
Potential Database Vulnerability	Indicates a potential vulnerability in the database.	4	Correlation Group 2	Scenario 2
IP Protocol Anomaly	Indicates a potential IP protocol anomaly	3	Correlation Group 2	Scenario 2
Suspicious IP Address	Indicates a suspicious IP address has been detected.	2	Correlation Group 2	Scenario 2
Invalid IP Protocol Usage	Indicates an invalid IP protocol misuse.	2	Correlation Group 2	Scenario 2
Invalid Protocol	Indicates an invalid protocol.	4	Correlation Group 2	Scenario 2
Suspicious Window Events	Indicates a suspicious event with a screen on your desktop.	2	Correlation Group 2	Scenario 2
Suspicious ICMP Activity	Indicates suspicious ICMP activity.	2	Correlation Group 2	Scenario 2
Potential NFS Vulnerability	Indicates a potential Network File System (NFS) vulnerability.	4	Correlation Group 2	Scenario 2
Potential NNTP Vulnerability	Indicates a potential Network News Transfer Protocol (NNTP) vulnerability.	4	Correlation Group 2	Scenario 2
Potential RPC Vulnerability	Indicates a potential RPC vulnerability.	4	Correlation Group 2	Scenario 2
Potential Telnet Vulnerability	Indicates a potential Telnet vulnerability on your system.	4	Correlation Group 2	Scenario 2
Potential SNMP Vulnerability	Indicates a potential SNMP vulnerability.	4	Correlation Group 2	Scenario 2
Illegal TCP Flag Combination	Indicates an invalid TCP flag combination has been detected.	5	Correlation Group 2	Scenario 2
Suspicious TCP Flag Combination	Indicates a potentially invalid TCP flag combination has been detected.	4	Correlation Group 2	Scenario 2
Illegal ICMP Protocol Usage	Indicates an invalid use of the ICMP protocol has been detected.	5	Correlation Group 2	Scenario 2
Suspicious ICMP Protocol Usage	Indicates a potentially invalid use of the ICMP protocol has been detected.	4	Correlation Group 2	Scenario 2
Illegal ICMP Type	Indicates an invalid ICMP type has been detected.	5	Correlation Group 2	Scenario 2
Illegal ICMP Code	Indicates an invalid ICMP code has been detected.	5	Correlation Group 2	Scenario 2

Table 2-14 Suspicious Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Suspicious ICMP Type	Indicates a potentially invalid ICMP type has been detected.	4	Correlation Group 2	Scenario 2
Suspicious ICMP Code	Indicates a potentially invalid ICMP code has been detected.	4	Correlation Group 2	Scenario 2
TCP port 0	Indicates a TCP packet using a reserved port (0) for source or destination.	4	Correlation Group 2	Scenario 2
UDP port 0	Indicates a UDP packets using a reserved port (0) for source or destination.	4	Correlation Group 2	Scenario 2
Hostile IP	Indicates the use of a known hostile IP address.	4	Correlation Group 2	Scenario 2
Watch list IP	Indicates the use of an IP address from a watch list of IP addresses.	4	Correlation Group 2	Scenario 2
Known offender IP	Indicates the use of an IP address of a known offender.	4	Correlation Group 2	Scenario 2
RFC 1918 (private) IP	Indicates the use of an IP address from a private IP address range.	4	Correlation Group 2	Scenario 2
Potential VoIP Vulnerability	Indicates a potential VoIP vulnerability.	4	Correlation Group 2	Scenario 2
Blacklist Address	Indicates that an IP address is on the black list.	8	Correlation Group 2	Scenario 2
Watchlist Address	Indicates that the IP address is on the list of IP addresses being monitored.	7	Correlation Group 2	Scenario 2
Darknet Address	Indicates that the IP address is part of a darknet.	5	Correlation Group 2	Scenario 2
Botnet Address	Indicates that the address is part of a botnet.	7	Correlation Group 2	Scenario 2
Suspicious Address	Indicates that the IP address should be monitored.	5	Correlation Group 2	Scenario 2

System The system category indicates that the nature of threat is unknown but the behavior is suspicious including protocol anomalies potentially indicating evasive techniques. The associated low-level event categories include:

Table 2-15 System Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown System Event	Indicates an unknown system event.	1	Correlation Group 5	Scenario 2
System Boot	Indicates a system boot.	1	Correlation Group 5	Scenario 2
System Configuration	Indicates a change in the system configuration.	1	Correlation Group 5	Scenario 2
System Halt	Indicates the system has been halted.	1	Correlation Group 5	Scenario 2
System Failure	Indicates a system failure.	6	Correlation Group 5	Scenario 2
System Status	Indicates any information event.	1	Correlation Group 5	Scenario 2
System Error	Indicates a system error.	3	Correlation Group 5	Scenario 2
Misc System Event	Indicates a miscellaneous system event.	1	Correlation Group 5	Scenario 2
Service Started	Indicates system services have started.	1	Correlation Group 5	Scenario 2
Service Stopped	Indicates system services have stopped.	1	Correlation Group 5	Scenario 2
Service Failure	Indicates a system failure.	6	Correlation Group 5	Scenario 2
Successful Registry Modification	Indicates that a modification to the registry has been successful.	1	Correlation Group 5	Scenario 2
Successful Host-Policy Modification	Indicates that a modification to the host policy has been successful.	1	Correlation Group 5	Scenario 2
Successful File Modification	Indicates that a modification to a file has been successful.	1	Correlation Group 5	Scenario 2
Successful Stack Modification	Indicates that a modification to the stack has been successful.	1	Correlation Group 5	Scenario 2
Successful Application Modification	Indicates that a modification to the application has been successful.	1	Correlation Group 5	Scenario 2
Successful Configuration Modification	Indicates that a modification to the configuration has been successful.	1	Correlation Group 5	Scenario 2
Successful Service Modification	Indicates that a modification to a service has been successful.	1	Correlation Group 5	Scenario 2
Failed Registry Modification	Indicates that a modification to the registry has failed.	1	Correlation Group 5	Scenario 2

Table 2-15 System Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Failed Host-Policy Modification	Indicates that a modification to the host policy has failed.	1	Correlation Group 5	Scenario 2
Failed File Modification	Indicates that a modification to a file has failed.	1	Correlation Group 5	Scenario 2
Failed Stack Modification	Indicates that a modification to the stack has failed.	1	Correlation Group 5	Scenario 2
Failed Application Modification	Indicates that a modification to an application has failed.	1	Correlation Group 5	Scenario 2
Failed Configuration Modification	Indicates that a modification to the configuration has failed.	1	Correlation Group 5	Scenario 2
Failed Service Modification	Indicates that a modification to the service has failed.	1	Correlation Group 5	Scenario 2
Registry Addition	Indicates that an new item has been added to the registry.	1	Correlation Group 5	Scenario 2
Host-Policy Created	Indicates that a new entry has been added to the registry.	1	Correlation Group 5	Scenario 2
File Created	Indicates that a new has been created in the system.	1	Correlation Group 5	Scenario 2
Application Installed	Indicates that a new application has been installed on the system.	1	Correlation Group 5	Scenario 2
Service Installed	Indicates that a new service has been installed on the system.	1	Correlation Group 5	Scenario 2
Registry Deletion	Indicates that a registry entry has been deleted.	1	Correlation Group 5	Scenario 2
Host-Policy Deleted	Indicates that a host policy entry has been deleted.	1	Correlation Group 5	Scenario 2
File Deleted	Indicates that a file has been deleted.	1	Correlation Group 5	Scenario 2
Application Uninstalled	Indicates that an application has been uninstalled.	1	Correlation Group 5	Scenario 2
Service Uninstalled	Indicates that a service has been uninstalled.	1	Correlation Group 5	Scenario 2
System Informational	Indicates system information.	3	Correlation Group 5	Scenario 2
System Action Allow	Indicates that an attempted action on the system has been authorized.	3	Correlation Group 5	Scenario 2
System Action Deny	Indicates that an attempted action on the system has been denied.	4	Correlation Group 5	Scenario 2
Cron	Indicates a crontab message.	1	Correlation Group 5	Scenario 2

Table 2-15 System Categories (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Cron Status	Indicates a crontab status message.	1	Correlation Group 5	Scenario 2
Cron Failed	Indicates a crontab failure message.	4	Correlation Group 5	Scenario 2
Cron Successful	Indicates a crontab success message.	1	Correlation Group 5	Scenario 2
Daemon	Indicates a daemon message.	1	Correlation Group 5	Scenario 2
Daemon Status	Indicates a daemon status message.	1	Correlation Group 5	Scenario 2
Daemon Failed	Indicates a daemon failure message.	4	Correlation Group 5	Scenario 2
Daemon Successful	Indicates a daemon success message.	1	Correlation Group 5	Scenario 2
Kernel	Indicates a kernel message.	1	Correlation Group 5	Scenario 2
Kernel Status	Indicates a kernel status message.	1	Correlation Group 5	Scenario 2
Kernel Failed	Indicates a kernel failure message.		Correlation Group 5	Scenario 2
Kernel Successful	Indicates a kernel successful message.	1	Correlation Group 5	Scenario 2
Authentication	Indicates an authentication message.	1	Correlation Group 5	Scenario 2
Information	Indicates an informational message.	2	Correlation Group 5	Scenario 2
Notice	Indicates a notice message.	3	Correlation Group 5	Scenario 2
Warning	Indicates a warning message.	5	Correlation Group 5	Scenario 2
Error	Indicates an error message.	7	Correlation Group 5	Scenario 2
Critical	Indicates a critical message.	9	Correlation Group 5	Scenario 2
Debug	Indicates a debug message.	1	Correlation Group 5	Scenario 2
Messages	Indicates a generic message.	1	Correlation Group 5	Scenario 2
Privilege Access	Indicates that privilege access was attempted.	3	Correlation Group 5	Scenario 2

Policy The policy category indicates events relating to system changes, software installation, or status messages. The associated low-level event categories include:

Table 2-16 Policy Categories

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Policy Violation	Indicates an unknown policy violation.	2	Correlation Group 4	Scenario 2
Web Policy Violation	Indicates a web policy violation.	2	Correlation Group 4	Scenario 2
Remote Access Policy Violation	Indicates a remote access policy violation.	2	Correlation Group 4	Scenario 2
IRC/IM Policy Violation	Indicates an instant messenger policy violation.	2	Correlation Group 4	Scenario 2
P2P Policy Violation	Indicates a Peer-to-Peer (P2P) policy violation.	2	Correlation Group 4	Scenario 2
IP Access Policy Violation	Indicates an IP access policy violation.	2	Correlation Group 4	Scenario 2
Application Policy Violation	Indicates an application policy violation.	2	Correlation Group 4	Scenario 2
Database Policy Violation	Indicates a database policy violation.	2	Correlation Group 4	Scenario 2
Network Threshold Policy Violation	Indicates a network threshold policy violation.	2	Correlation Group 4	Scenario 2
Porn Policy Violation	Indicates a porn policy violation.	2	Correlation Group 4	Scenario 2
Games Policy Violation	Indicates a games policy violation.	2	Correlation Group 4	Scenario 2
Misc Policy Violation	Indicates a miscellaneous policy violation.	2	Correlation Group 4	Scenario 2
Compliance Policy Violation	Indicates a compliance policy violation.	2	Correlation Group 4	Scenario 2
Mail Policy Violation	Indicates a mail policy violation.	2	Correlation Group 4	Scenario 2
IRC Policy Violation	Indicates an IRC policy violation	2	Correlation Group 4	Scenario 2
IM Policy Violation	Indicates a policy violation related to instant messaging (IM) activities.	2	Correlation Group 4	Scenario 2
VoIP Policy Violation	Indicates a VoIP policy violation	2	Correlation Group 4	Scenario 2

CRE The CRE category indicates events generated from a custom offense or event rule. The associated low-level event categories include:

Table 2-17 CRE Category

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown CRE Event	Indicates an unknown custom rules engine event.	5	No event pass-through	Scenario 1
Single Event Rule Match	Indicates a single event rule match.	5	No event pass-through	Scenario 1
Event Sequence Rule Match	Indicates an event sequence rule match.	5	No event pass-through	Scenario 1
Cross-Offense Event Sequence Rule Match	Indicates a cross-offense event sequence rule match.	5	No event pass-through	Scenario 1
Offense Rule Match	Indicates an offense rule match.	5	No event pass-through	Scenario 1

Potential Exploit The Potential Exploit category indicates events relating to potential application exploits and buffer overflow attempts. The associated low-level event categories include:

Table 2-18 Potential Exploit Category

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Unknown Potential Exploit Attack	Indicates a potential exploitative attack has been detected.	7	Correlation Group 1	Scenario 2
Potential Buffer Overflow	Indicates a potential buffer overflow has been detected.	7	Correlation Group 1	Scenario 2
Potential DNS Exploit	Indicates a potentially exploitative attack through the DNS server has been detected.	7	Correlation Group 1	Scenario 2
Potential Telnet Exploit	Indicates a potentially exploitative attack through Telnet has been detected.	7	Correlation Group 1	Scenario 2
Potential Linux Exploit	Indicates a potentially exploitative attack through Linux has been detected.	7	Correlation Group 1	Scenario 2
Potential Unix Exploit	Indicates a potentially exploitative attack through Unix has been detected.	7	Correlation Group 1	Scenario 2
Potential Windows Exploit	Indicates a potentially exploitative attack through Windows has been detected.	7	Correlation Group 1	Scenario 2

Table 2-18 Potential Exploit Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Potential Mail Exploit	Indicates a potentially exploitative attack through mail has been detected.	7	Correlation Group 1	Scenario 2
Potential Infrastructure Exploit	Indicates a potential exploitative attack on the system infrastructure has been detected.	7	Correlation Group 1	Scenario 2
Potential Misc Exploit	Indicates a potentially exploitative attack has been detected.	7	Correlation Group 1	Scenario 2
Potential Web Exploit	Indicates a potentially exploitative attack through the web has been detected.	7	Correlation Group 1	Scenario 2
Potential Botnet connection	Indicates a potentially exploitative attack using Botnet has been detected.	6	Correlation Group 1	Scenario 2
Potential worm activity	Indicates a potentially exploitive attack using worm activity has been detected.	6	Correlation Group 1	Scenario 2

SIM Audit

The SIM Audit events category indicates events related to user interaction with the Console and the Administration Console. User logins and configuration changes will generate events that are sent to the Event Collector, which correlates with other security events from the network. The associated low-level event categories include:

Table 2-19 SEM Audit Event Category

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
SIM User Authentication	Indicates a user login or logout on the Console.	5	Correlation Group 5	Scenario 2
SIM Configuration Change	Indicates that a user has made a change to the SIM configuration or deployment.	3	Correlation Group 5	Scenario 2
SIM User Action	Indicates that a user has initiated a process in the SIM module. This may include starting a backup process or generated a report.	3	Correlation Group 5	Scenario 2

VIS Host Discovery When the VIS component discovers and stores new hosts, ports, or vulnerabilities detected on the network, the VIS component generates events. These events are sent to the Event Collector to be correlated with other security events.

The associated low-level event categories include:

Table 2-20 VIS Host Discovery Category

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
New Host Discovered	Indicates that the VIS component has detected a new host.	3	Correlation Group 5	Scenario 2
New Port Discovered	Indicates that the VIS component has detected a new open port.	3	Correlation Group 5	Scenario 2
New Vuln Discovered	Indicates that the VIS component has detected a new vulnerability.	3	Correlation Group 5	Scenario 2
New OS Discovered	Indicates that the VIS component has detected a new operating system on a host.	3	Correlation Group 5	Scenario 2
Bulk Host Discovered	Indicates that the VIS component has detected many new hosts in a short period of time.	3	Correlation Group 5	Scenario 2

Application The Application category indicates events relating to application activity, such as e-mail or FTP activity. The associated low-level event categories include:

Table 2-21 Application Category

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Mail Opened	Indicates that an e-mail connection was established.	1	Correlation Group 3	Scenario 2
Mail Closed	Indicates that an e-mail connection was closed.	1	Correlation Group 3	Scenario 2
Mail Reset	Indicates that an e-mail connection was reset.	3	Correlation Group 3	Scenario 2
Mail Terminated	Indicates that an e-mail connection was terminated.	4	Correlation Group 3	Scenario 2
Mail Denied	Indicates that an e-mail connection was denied.	4	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
Mail in Progress	Indicates that an e-mail connection is being attempted.	1	Correlation Group 3	Scenario 2
Mail Delayed	Indicates that an e-mail connection was delayed.	4	Correlation Group 3	Scenario 2
Mail Queued	Indicates that an e-mail connection was queued.	3	Correlation Group 3	Scenario 2
Mail Redirected	Indicates that an e-mail connection was redirected.	1	Correlation Group 3	Scenario 2
FTP Opened	Indicates that an FTP connection was opened.	1	Correlation Group 3	Scenario 2
FTP Closed	Indicates that an FTP connection was closed.	1	Correlation Group 3	Scenario 2
FTP Reset	Indicates that an FTP connection was reset.	3	Correlation Group 3	Scenario 2
FTP Terminated	Indicates that an FTP connection was terminated.	4	Correlation Group 3	Scenario 2
FTP Denied	Indicates that an FTP connection was denied.	4	Correlation Group 3	Scenario 2
FTP In Progress	Indicates that an FTP connection is currently in progress.	1	Correlation Group 3	Scenario 2
FTP Redirected	Indicates that an FTP connection was redirected.	3	Correlation Group 3	Scenario 2
HTTP Opened	Indicates that an HTTP connection was established.	1	Correlation Group 3	Scenario 2
HTTP Closed	Indicates that an HTTP connection was closed.	1	Correlation Group 3	Scenario 2
HTTP Reset	Indicates that an HTTP connection was reset.	3	Correlation Group 3	Scenario 2
HTTP Terminated	Indicates that an HTTP connection was terminated.	4	Correlation Group 3	Scenario 2
HTTP Denied	Indicates that an HTTP connection was denied.	4	Correlation Group 3	Scenario 2
HTTP In Progress	Indicates that an HTTP connection is currently in progress.	1	Correlation Group 3	Scenario 2
HTTP Delayed	Indicates that an HTTP connection was delayed.	3	Correlation Group 3	Scenario 2
HTTP Queued	Indicates that an HTTP connection was queued.	1	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
HTTP Redirected	Indicates that an HTTP connection was redirected.	1	Correlation Group 3	Scenario 2
HTTP Proxy	Indicates that an HTTP connection is being proxied.	1	Correlation Group 3	Scenario 2
HTTPS Opened	Indicates that an HTTPS connection was established.	1	Correlation Group 3	Scenario 2
HTTPS Closed	Indicates that an HTTPS connection was closed.	1	Correlation Group 3	Scenario 2
HTTPS Reset	Indicates that an HTTPS connection was reset.	4	Correlation Group 3	Scenario 2
HTTP Terminated	Indicates that an HTTPS connection was terminated.	4	Correlation Group 3	Scenario 2
HTTPS Denied	Indicates that an HTTPS connection was denied.	4	Correlation Group 3	Scenario 2
HTTPS In Progress	Indicates that an HTTPS connection is currently in progress.	1	Correlation Group 3	Scenario 2
HTTPS Delayed	Indicates that an HTTPS connection was delayed.	3	Correlation Group 3	Scenario 2
HTTPS Queued	Indicates that an HTTPS connection was queued.	3	Correlation Group 3	Scenario 2
HTTPS Redirected	Indicates that an HTTPS connection was redirected.	3	Correlation Group 3	Scenario 2
HTTPS Proxy	Indicates that an HTTPS connection is proxied.	1	Correlation Group 3	Scenario 2
SSH Opened	Indicates than an SSH connection was established.	1	Correlation Group 3	Scenario 2
SSH Closed	Indicates that an SSH connection was closed.	1	Correlation Group 3	Scenario 2
SSH Reset	Indicates that an SSH connection was reset.	3	Correlation Group 3	Scenario 2
SSH Terminated	Indicates that an SSH connection was terminated.	3	Correlation Group 3	Scenario 2
SSH Denied	Indicates that an SSH session was denied.	4	Correlation Group 3	Scenario 2
SSH In Progress	Indicates that an SSH session is currently in progress.	1	Correlation Group 3	Scenario 2
RemoteAccess Opened	Indicates that a remote access connection was established.	1	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
RemoteAccess Closed	Indicates that a remote access connection was closed.	1	Correlation Group 3	Scenario 2
RemoteAccess Reset	Indicates that a remote access connection was reset.	3	Correlation Group 3	Scenario 2
RemoteAccess Terminated	Indicates that a remote access connection was terminated.	4	Correlation Group 3	Scenario 2
RemoteAccess Denied	Indicates that a remote access connection was denied.	4	Correlation Group 3	Scenario 2
RemoteAccess In Progress	Indicates that a remote access connection is currently in progress.	4	Correlation Group 3	Scenario 2
RemoteAccess Delayed	Indicates that a remote access connection was delayed.	3	Correlation Group 3	Scenario 2
RemoteAccess Redirected	Indicates that a remote access connection was redirected.	3	Correlation Group 3	Scenario 2
VPN Opened	Indicates that a VPN connection was opened.	1	Correlation Group 3	Scenario 2
VPN Closed	Indicates that a VPN connection was closed.	1	Correlation Group 3	Scenario 2
VPN Reset	Indicates that a VPN connection was reset.	3	Correlation Group 3	Scenario 2
VPN Terminated	Indicates that a VPN connection was terminated.	4	Correlation Group 3	Scenario 2
VPN Denied	Indicates that a VPN connection was denied.	4	Correlation Group 3	Scenario 2
VPN In Progress	Indicates that a VPN connection is currently in progress.	1	Correlation Group 3	Scenario 2
VPN Delayed	Indicates that a VPN connection was delayed	3	Correlation Group 3	Scenario 2
VPN Queued	Indicates that a VPN connection was queued.	3	Correlation Group 3	Scenario 2
VPN Redirected	Indicates that a VPN connection was redirected.	3	Correlation Group 3	Scenario 2
RDP Opened	Indicates that an RDP connection was established.	1	Correlation Group 3	Scenario 2
RDP Closed	Indicates that an RDP connection was closed.	1	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
RDP Reset	Indicates that an RDP connection was reset.	3	Correlation Group 3	Scenario 2
RDP Terminated	Indicates that an RDP connection was terminated.	4	Correlation Group 3	Scenario 2
RDP Denied	Indicates that an RDP connection was denied.	4	Correlation Group 3	Scenario 2
RDP In Progress	Indicates that an RDP connection is currently in progress.	1	Correlation Group 3	Scenario 2
RDP Redirected	Indicates that an RDP connection was redirected.	3	Correlation Group 3	Scenario 2
FileTransfer Opened	Indicates that a file transfer connection was established.	1	Correlation Group 3	Scenario 2
FileTransfer Closed	Indicates that a file transfer connection was closed.	1	Correlation Group 3	Scenario 2
FileTransfer Reset	Indicates that a file transfer connection was reset.	3	Correlation Group 3	Scenario 2
FileTransfer Terminated	Indicates that a file transfer connection was terminated.	4	Correlation Group 3	Scenario 2
FileTransfer Denied	Indicates that a file transfer connection was denied.	4	Correlation Group 3	Scenario 2
FileTransfer In Progress	Indicates that a file transfer connection is currently in progress.	1	Correlation Group 3	Scenario 2
FileTransfer Delayed	Indicates that a file transfer connection was delayed.	3	Correlation Group 3	Scenario 2
FileTransfer Queued	Indicates that a file transfer connection was queued.	3	Correlation Group 3	Scenario 2
FileTransfer Redirected	Indicates that a file transfer connection was redirected.	3	Correlation Group 3	Scenario 2
DNS Opened	Indicates that a DNS connection was established.	1	Correlation Group 3	Scenario 2
DNS Closed	Indicates that a DNS connection was closed.	1	Correlation Group 3	Scenario 2
DNS Reset	Indicates that a DNS connection was reset.	5	Correlation Group 3	Scenario 2
DNS Terminated	Indicates that a DNS connection was terminated.	5	Correlation Group 3	Scenario 2
DNS Denied	Indicates that a DNS connection was denied.	5	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
DNS In Progress	Indicates that a DNS connection is currently in progress.	1	Correlation Group 3	Scenario 2
DNS Delayed	Indicates that a DNS connection was delayed.	5	Correlation Group 3	Scenario 2
DNS Redirected	Indicates that a DNS connection was redirected.	4	Correlation Group 3	Scenario 2
Chat Opened	Indicates that a chat connection was opened.	1	Correlation Group 3	Scenario 2
Chat Closed	Indicates that a chat connection was closed.	1	Correlation Group 3	Scenario 2
Chat Reset	Indicates that a chat connection was reset.	3	Correlation Group 3	Scenario 2
Chat Terminated	Indicates that a chat connection was terminated.	3	Correlation Group 3	Scenario 2
Chat Denied	Indicates that a chat connection was denied.	3	Correlation Group 3	Scenario 2
Chat In Progress	Indicates that a chat connection is currently in progress.	1	Correlation Group 3	Scenario 2
Chat Redirected	Indicates that a chat connection was redirected.	1	Correlation Group 3	Scenario 2
Database Opened	Indicates that a database connection was established.	1	Correlation Group 3	Scenario 2
Database Closed	Indicates that a database connection was closed.	1	Correlation Group 3	Scenario 2
Database Reset	Indicates that a database connection was reset.	5	Correlation Group 3	Scenario 2
Database Terminated	Indicates that a database connection was terminated.	5	Correlation Group 3	Scenario 2
Database Denied	Indicates that a database connection was denied.	5	Correlation Group 3	Scenario 2
Database In Progress	Indicates that a database connection is currently in progress.	1	Correlation Group 3	Scenario 2
Database Redirected	Indicates that a database connection was redirected.	3	Correlation Group 3	Scenario 2
SMTP Opened	Indicates that an SMTP connection was established.	1	Correlation Group 3	Scenario 2
SMTP Closed	Indicates that an SMTP connection was closed.	1	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
SMTP Reset	Indicates that an SMTP connection was reset.	3	Correlation Group 3	Scenario 2
SMTP Terminated	Indicates that an SMTP connection was terminated.	5	Correlation Group 3	Scenario 2
SMTP Denied	Indicates that an SMTP connection was denied.	5	Correlation Group 3	Scenario 2
SMTP In Progress	Indicates that an SMTP connection is currently in progress.	1	Correlation Group 3	Scenario 2
SMTP Delayed	Indicates that an SMTP connection was delayed.	3	Correlation Group 3	Scenario 2
SMTP Queued	Indicates that an SMTP connection was queued.	3	Correlation Group 3	Scenario 2
SMTP Redirected	Indicates that an SMTP connection was redirected.	3	Correlation Group 3	Scenario 2
Auth Opened	Indicates that an authorization server connection was established.	1	Correlation Group 3	Scenario 2
Auth Closed	Indicates that an authorization server connection was closed.	1	Correlation Group 3	Scenario 2
Auth Reset	Indicates that an authorization server connection was reset.	3	Correlation Group 3	Scenario 2
Auth Terminated	Indicates that an authorization server connection was terminated.	4	Correlation Group 3	Scenario 2
Auth Denied	Indicates that an authorization server connection was denied.	4	Correlation Group 3	Scenario 2
Auth In Progress	Indicates that an authorization server connection is currently in progress.	1	Correlation Group 3	Scenario 2
Auth Delayed	Indicates that an authorization server connection was delayed.	3	Correlation Group 3	Scenario 2
Auth Queued	Indicates that an authorization server connection was queued.	3	Correlation Group 3	Scenario 2
Auth Redirected	Indicates that an authorization server connection was redirected.	2	Correlation Group 3	Scenario 2
P2P Opened	Indicates that a Peer-to-Peer (P2P) connection was established.	1	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
P2P Closed	Indicates that a P2P connection was closed.	1	Correlation Group 3	Scenario 2
P2P Reset	Indicates that a P2P connection was reset.	4	Correlation Group 3	Scenario 2
P2P Terminated	Indicates that a P2P connection was terminated.	4	Correlation Group 3	Scenario 2
P2P Denied	Indicates that a P2P connection was denied.	3	Correlation Group 3	Scenario 2
P2P In Progress	Indicates that a P2P connection is currently in progress.	1	Correlation Group 3	Scenario 2
Web Opened	Indicates that a web connection was established.	1	Correlation Group 3	Scenario 2
Web Closed	Indicates that a web connection was closed.	1	Correlation Group 3	Scenario 2
Web Reset	Indicates that a web connection was reset.	4	Correlation Group 3	Scenario 2
Web Terminated	Indicates that a web connection was terminated.	4	Correlation Group 3	Scenario 2
Web Denied	Indicates that a web connection was denied.	4	Correlation Group 3	Scenario 2
Web In Progress	Indicates that a web connection is currently in progress.	1	Correlation Group 3	Scenario 2
Web Delayed	Indicates that a web connection was delayed.	3	Correlation Group 3	Scenario 2
Web Queued	Indicates that a web connection was queued.	1	Correlation Group 3	Scenario 2
Web Redirected	Indicates that a web connection was redirected.	1	Correlation Group 3	Scenario 2
Web Proxy	Indicates that a web connection was proxied.		Correlation Group 3	Scenario 2
VoIP Opened	Indicates that a Voice Over IP (VoIP) connection was established.	1	Correlation Group 3	Scenario 2
VoIP Closed	Indicates that a VoIP connection was closed.	1	Correlation Group 3	Scenario 2
VoIP Reset	Indicates that a VoIP connection was reset.	3	Correlation Group 3	Scenario 2
VoIP Terminated	Indicates that a VoIP connection was terminated.	3	Correlation Group 3	Scenario 2

Table 2-21 Application Category (continued)

Low Level Event Category	Description	Severity Level (0 to 10)	Event Correlation/ Processing	Additional Event Processing
VoIP Denied	Indicates that a VoIP connection was denied.	3	Correlation Group 3	Scenario 2
VoIP In Progress	Indicates that a VoIP connection is currently in progress.	1	Correlation Group 3	Scenario 2
VoIP Delayed	Indicates that a VoIP connection was delayed.	3	Correlation Group 3	Scenario 2
VoIP Redirected	Indicates that a VoIP connection was redirected.	3	Correlation Group 3	Scenario 2
Suspicious Protocol Usage	Indicates that suspicious protocol usage was detected.	5	Correlation Group 2	Scenario 2