



Qualys Context Extended Detection and Response

Barracuda WAF

Data Mapping Guide

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About this Guide

Thank you for your interest in Extended Detection, and Response (XDR). Qualys Context XDR expands the capabilities of the Qualys Cloud Platform to integrate data points from other Qualys products offer a unified view of your organization's security posture. Context XDR integrates data points (events/logs) from your enterprise's ecosystem that comprises of several heterogenous sources. This data is normalized, enriched and then categorized before storing it in the Qualys Context XDR data model. This unified database that holds data points from multiple security applications is then used to offer a 360° view of your organization's security posture — all from a single solution.

The Data Mapping Guides provide a list of the fields received through a data source and how these fields are mapped to the Qualys Context XDR data model.

About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions. The Qualys Cloud Platform and its integrated apps help businesses simplify security operations and lower the cost of compliance by delivering critical security intelligence on demand and automating the full spectrum of auditing, compliance, and protection for IT systems and web applications.

Founded in 1999, Qualys has established strategic partnerships with leading managed service providers and consulting organizations including Accenture, BT, Cognizant Technology Solutions, Deutsche Telekom, Fujitsu, HCL, HP Enterprise, IBM, Infosys, NTT, Optiv, SecureWorks, Tata Communications, Verizon and Wipro. The company is also a founding member of the [Cloud Security Alliance \(CSA\)](#). For more information, please visit www.qualys.com.

Qualys Support

Qualys is committed to providing you with the most thorough support. Through online documentation, telephone help, and direct email support, Qualys ensures that your questions will be answered in the fastest time possible. We support you 7 days a week, 24 hours a day. Access support information at <http://www.qualys.com/support/>.

Overview

Qualys Extended Detection and Response (XDR) can be configured to ingest data from several different data sources. Each data source has its own data points, and this Data Mapping Guide offers insight into how these data points are interpreted, normalized, and mapped in Qualys Context XDR.

This guide focuses on the data mapping between Barracuda WAF fields and the Qualys data model.

Note: For a complete list of sources that Qualys Context XDR supports, on the Qualys Context XDR UI, navigate to **Configuration > Data Collection > Catalog**. If the source you are looking for is not in the catalog, you can add a request for support using the **Not in the list?** card. Based on the requests coming in, Qualys will prioritize and attempt to add support at the earliest.

Device Details

- **Device Type** – WAF
- **Device Vendor** – Barracuda
- **Device Product** – Barracuda WAF
- **Supported Versions** – Limited Support – Contact your TAM for further information.

Supported Formats

In Qualys Context XDR, you can configure to receive data from Barracuda WAF using the following formats:

- **Syslog**

For information on configuring collectors, refer to the [Deploying a Collector](#) section in the Online Help.

Data Field Mappings

This section provides a detailed mapping of the data source fields to the Qualys Context XDR.

deviceType – WAF

deviceVendor – Barracuda

Data Source Fields	Qualys Context XDR QQL Tokens	Sample Values	Description
Time	eventTime	8/31/2020 23:59	The time recorded in the following format: "yyyy-mm-dd hh:mm:ss.s" (one or more digits representing a decimal fraction of a second) TZD (time zone designator, which is either Z or +hh:mm or -hh:mm)
Host	deviceHost	VA-R-BG-WAF1	Specifies the name of the unit, which is the same as the Default Hostname on the BASIC > IP Configuration page.
Vendor	deviceVendor	Barracuda	Vendor name of the device that is producing the audit events
Type	deviceType	WAF	Type of the device that is producing the audit events
Model	deviceModel	1010	Model details of the device that is producing the audit events
Severity	deviceSeverity	INFO	Defines the severity of the attack. Possible values: <ul style="list-style-type: none">• EMERGENCY – System is unusable (highest priority)• ALERT – Response must be taken immediately• CRITICAL – Critical conditions• ERROR – Error conditions• WARNING – Warning conditions• NOTICE – Normal but significant condition (on ACL configuration changes)• INFORMATION – Informational message• DEBUG – Debug-level message (lowest priority) For information Qualys normalized values, click here .
src	sourceIpv4	192.168.100.10	The IP address of the client sending the request. Note that an intermediate proxy or gateway may have overwritten the actual source IP of the client with its own.
spt	sourcePort	57860	The port relevant to the client IP address
dst	destinationIpv4	192.168.100.10	The IP address of the service that receives the traffic
dpt	destinationPort	443	The port relevant to the IP address of the service
app	application	Application	Name of the application used.
in	inByte	655	Traffic in Bytes received by the user as present in the event

Data Source Fields	Qualys Context XDR QQL Tokens	Sample Values	Description
out	outByte	1204	Traffic in Bytes sent by the user as present in the event
requestMethod	method	POST	The request method of the traffic
httpStatus	status	200	HTTP status codes
host	requestUrl	api-tfnregistry.somos.com	The URL specified in the request
referrer	referrerUrl	-	Referred URL for the RequestURL
rt	receivedTime	1598932795652	The time at which the log was received by XDR
logType	eventType	TR	Specifies the type of log: Web Firewall Log, Access Log, Audit Log, Network Firewall Log, or System Log. Possible values: WF, TR, AUDIT, NF, SYS
httpVersion	httpVersion	HTTP/1.1	
timeTaken	duration	34	Time field. e.g. session duration, scan duration, attack duration
userAgent	userAgent	python-requests/2.22.0	user_agent used to request the URL
Proxy IP	additionalIP	198.143.33.4	If the client requests are coming through a proxy or gateway, this field provides the IP address of the proxy. A client-side proxy or gateway changes the source IP of the request to its own and embeds the actual client's IP in an HTTP header such as X-Forwarded-For or X-Client-IP. The Barracuda Web Application Firewall, if configured, will ignore the proxy IP and extract the actual client IP from the appropriate header to apply security policies as well as for logging the Client IP field above. This field preserves the proxy IP address for cases where it is required, e.g., forensics and analytics.
Attack Type	eventName	MISSING_REFERER_HEADER	The name of the attack triggered by the request
Rule	policy	global	The path of the URL ACL that matched with the request.
Action	action	LOG	The appropriate action applied on the traffic. Possible values: <ul style="list-style-type: none"> DENY – denotes that the traffic is denied LOG – denotes monitoring of the traffic with the assigned rule WARNING – warns about the traffic For information on Qualys normalized values, click here .
Follow-up Action	secondaryAction	NONE	The follow-up action as specified by the action policy. It can be either None or Locked in case the lockout is chosen.

Data Source Fields	Qualys Context XDR QQL Tokens	Sample Values	Description
Attack Details	detectionMethod	[Referer header is missing]	Details of the attack triggered by the request
Attack ID	deviceEventId	-	Event ID assigned by the device which is producing the audit events if present in the audit log
UID	externalId	17447d21893-dc97b899	Unique ID
Authenticated User	sourceUser	Bearer	The username of the currently authenticated client requesting the web page. This is available only when the request is for a service that is using the AAA (Access Control) module.

Qualys Internal Fields

Qualys Context XDR QQL Tokens	Sample Values
deviceType	WAF
deviceModel	1010
deviceVendor	Barracuda
deviceHost	el.xyz.com
customerId	d656b196-edb7-45e6-8485-3748a740d002
collectorId	ae102769-bd05-415d-af3c-2cc59681cbab
eventSourceId	1ae639f0-0944-4cbc-81ef-87c040ca9eb2
eventId	d656b196-edb7-45e6-8485-3748a740d002
collectorReceivedTime	Jun 01, 2021 11:29:04 AM

Field Value Mappings

Data source field: Severity

Source Values	Qualys Normalized Values
Emergency	Emergency
ALERT	Alert
Critical	Critical
Error	Error
Warning	Warning
Notice	Notice
INFO	Informational
Debug	Debug

Data source field: Action

Source Values	Qualys Normalized Values
DENY	Deny
LOG	Log
WARNING	Warning