Qualys Cloud Platform (VM, PC) v10.x

API Release Notes

Version 10.29.1

August 14, 2024

This new version of the Qualys Cloud Platform (VM, PC) includes improvements to the Qualys API. You'll find all the details in our user guides, available at the time of release. Just log in to your Qualys account and go to Help > Resources.

What's New?

Remove Compliance Data Associated with Dead Hosts

Qualys API Server URL

The Qualys API URL you should use for API requests depends on the Qualys platform where your account is located.

Click here to identify your Qualys platform and get the API URL

This documentation uses the API server URL for Qualys US Platform 1 (https://gateway.qg1.apps.qualys.com) in sample API requests. If you're on another platform, please replace this URL with the appropriate server URL for your account.

For this API Release Notes, instead of providing any platform-specific URL, <qualys_base_url> is mentioned in the sample API requests.

Remove Compliance Data Associated with Dead Hosts

New or Updated API	New version of Option Profiles for Compliance API
API Version	4.0
API endpoint	/api/4.0/fo/subscription/option_profile/pc/ /api/4.0/fo/subscription/option_profile/
Method	POST
DTD or XSD changes	Yes

We have enhanced compliance scan option profile to allow you to remove compliance scan data for hosts that are not found alive. A dead host is unreachable—it didn't respond to any of our pings. Typically, you would want to avoid reporting dead hosts which can inflate your compliance detections data.

Configure the following new input parameters in your scan option profile to set a number of Policy Compliance scans, after which the data should be removed. When configured, we remove compliance data associated with dead hosts after a set number of scans. This helps to get the compliance report only on the active/ live hosts.

Note: This feature is not available by default and must be enabled for your subscription. Contact Qualys Support or your Technical Account Manager (TAM) to enable it.

Input Parameters

The following new input parameters have been added.

Parameter	Description
clean_scan_data_on_dead_hosts{0|1}	(Optional) Use this parameter to indicate whether you would like to remove compliance scan data associated with dead hosts. Enter 1 if you wish to remove the compliance data or 0 if you do not wish to remove it.
host_not_found_alive_times{value}	(Optional) Enter the number of compliance scans to wait before removing compliance data associated with dead hosts.

Sample - Create Option Profile

API Request:

```
curl-s -S -H 'X-Requested-With:curl demo2' -u "abcd_vg:xxxxx@11" -d
"action=create&title=Mdd&clean_scan_data_on_dead_hosts=1&host_not_found_a
live_times=10"
"http://<qualys_base_url>/api/4.0/fo/subscription/option_profile/pc/"
```

XML Response:

```
   <?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE SIMPLE_RETURN SYSTEM
"http://<qualys_base_url>/api/4.0/simple_return.dtd">
<SIMPLE_RETURN>
  <RESPONSE>
    <DATETIME>2024-08-05T14:53:18Z</DATETIME>
    <TEXT>Compliance Option profile successfully added.</TEXT>
    <ITEM_LIST>
      <ITEM>
        <KEY>ID</KEY>
        <VALUE>47092</VALUE>
      </ITEM>
    </ITEM_LIST>
  </RESPONSE>
</SIMPLE_RETURN>
```

Sample - Update Option Profile

API Request:

```
curl-s -S -H 'X-Requested-With:curl demo2' -u "abcs_vg:xxxxx@11" -d
"action=update&id=47092&title=MDD&clean_scan_data_on_dead_hosts=1&host_no
t_found_alive_times=77"
"http://<qualys_base_url>/api/4.0/fo/subscription/option_profile/pc/"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE SIMPLE_RETURN SYSTEM
"http://<qualys_base_url>/api/4.0/simple_return.dtd">
<SIMPLE_RETURN>
  <RESPONSE>
    <DATETIME>2024-08-05T14:54:14Z</DATETIME>
    <TEXT>Compliance Option profile successfully updated.</TEXT>
    <ITEM_LIST>
      <ITEM>
        <KEY>ID</KEY>
        <VALUE>47092</VALUE>
      </ITEM>
    </ITEM_LIST>
  </RESPONSE>
</SIMPLE_RETURN>
```

Sample - List Option Profile

API Request:

```
curl -s -S -H 'X-Requested-With:curl demo2' -u "xxxx_sx4:Abbcd123#" -d
"action=list&id=7293777"
"https://<qualys_base_url>//api/4.0/fo/subscription/option_profile/pc/"
```

XML Response:

```
<!DOCTYPE OPTION_PROFILES SYSTEM
"https://<qualys_base_url>/api/4.0/fo/subscription/option_profile/option_
profile_info.dtd">
<OPTION_PROFILES>
    <OPTION_PROFILE>
        <BASIC_INFO>
            <ID>7293777</ID>
            <GROUP_NAME>
                <![CDATA[test ss]]>
            </GROUP_NAME>
            <GROUP_TYPE>compliance</GROUP_TYPE>
            <USER_ID>
                <![CDATA[abcd Vaaa (quays_sx4)]]>
            </USER_ID>
            <UNIT_ID>0</UNIT_ID>
            <SUBSCRIPTION_ID>89081</SUBSCRIPTION_ID>
            <IS_GLOBAL>0</IS_GLOBAL>
            <UPDATE_DATE>2024-08-09T11:01:49Z</UPDATE_DATE>
        </BASIC_INFO>
        <SCAN>
            <PORTS>
                <TARGETED_SCAN>1</TARGETED_SCAN>
            </PORTS>
            <PERFORMANCE>
                <PARALLEL_SCALING>0</PARALLEL_SCALING>
                <OVERALL_PERFORMANCE>Normal</OVERALL_PERFORMANCE>
                <HOSTS_TO_SCAN>
                    <EXTERNAL_SCANNERS>15</EXTERNAL_SCANNERS>
                    <SCANNER_APPLIANCES>30</SCANNER_APPLIANCES>
                </HOSTS_TO_SCAN>
                <PROCESSES_TO_RUN>
                    <TOTAL_PROCESSES>10</TOTAL_PROCESSES>
                    <HTTP_PROCESSES>10</HTTP_PROCESSES>
                </PROCESSES_TO_RUN>
                <PACKET_DELAY>Medium</PACKET_DELAY>

<PORT_SCANNING_AND_HOST_DISCOVERY>Normal</PORT_SCANNING_AND_HOST_DISCOVER
Y>
            </PERFORMANCE>
            <DISSOLVABLE_AGENT>
```

```
                <DISSOLVABLE_AGENT_ENABLE>0</DISSOLVABLE_AGENT_ENABLE>
                <PASSWORD_AUDITING_ENABLE>

<HAS_PASSWORD_AUDITING_ENABLE>0</HAS_PASSWORD_AUDITING_ENABLE>
                </PASSWORD_AUDITING_ENABLE>

<WINDOWS_SHARE_ENUMERATION_ENABLE>0</WINDOWS_SHARE_ENUMERATION_ENABLE>

<WINDOWS_DIRECTORY_SEARCH_ENABLE>0</WINDOWS_DIRECTORY_SEARCH_ENABLE>
            </DISSOLVABLE_AGENT>
            <FILE_INTEGRITY_MONITORING>
               <AUTO_UPDATE_EXPECTED_VALUE>0</AUTO_UPDATE_EXPECTED_VALUE>
            </FILE_INTEGRITY_MONITORING>
            <CONTROL_TYPES>
                <FIM_CONTROLS_ENABLED>0</FIM_CONTROLS_ENABLED>
                <CUSTOM_WMI_QUERY_CHECKS>0</CUSTOM_WMI_QUERY_CHECKS>
            </CONTROL_TYPES>
            <DEAD_HOST_PROCESSING>
                <PROCESS_DEAD_HOST_ENABLED>1</PROCESS_DEAD_HOST_ENABLED>
                <DEAD_HOST_TIMES_NOT_FOUND>12</DEAD_HOST_TIMES_NOT_FOUND>
            </DEAD_HOST_PROCESSING>
        </SCAN>
        <ADDITIONAL>
            <HOST_DISCOVERY>
                <TCP_PORTS>
                    <STANDARD_SCAN>1</STANDARD_SCAN>
                </TCP_PORTS>
                <UDP_PORTS>
                    <STANDARD_SCAN>1</STANDARD_SCAN>
                </UDP_PORTS>
                <ICMP>1</ICMP>
            </HOST_DISCOVERY>
            <PACKET_OPTIONS>

<IGNORE_FIREWALL_GENERATED_TCP_RST>0</IGNORE_FIREWALL_GENERATED_TCP_RST>

<IGNORE_FIREWALL_GENERATED_TCP_SYN_ACK>0</IGNORE_FIREWALL_GENERATED_TCP_S
YN_ACK>

<NOT_SEND_TCP_ACK_OR_SYN_ACK_DURING_HOST_DISCOVERY>0</NOT_SEND_TCP_ACK_OR
_SYN_ACK_DURING_HOST_DISCOVERY>
            </PACKET_OPTIONS>
        </ADDITIONAL>
        <INSTANCE_DATA_COLLECTION />
        <OS_BASED_INSTANCE_DISC_COLLECTION />
    </OPTION_PROFILE>
```

Sample- Import Option Profile

API Request

```
curl  -u "testxxx:abcd123#" -H "X-Requested-With:curl" -H "content-type:
text/xml" -X POST --data-binary @exportedOP.xml
"https://<qualys_base_url>/api/4.0/fo/subscription/option_profile/?action
=import"
```

XML Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE SIMPLE_RETURN SYSTEM
"http://<qualys_base_url>/api/4.0/simple_return.dtd">
<SIMPLE_RETURN>
  <RESPONSE>
    <DATETIME>2024-08-05T15:06:05Z</DATETIME>
    <TEXT>Successfully imported Option profile for the subscription Id
4392704</TEXT>
    <ITEM_LIST>
      <ITEM>
        <KEY>7293862</KEY>
        <VALUE>test ss</VALUE>
      </ITEM>
    </ITEM_LIST>
  </RESPONSE>
</SIMPLE_RETURN>
```

Sample- Export Option Profile

API Request

```
curl -s -S -H 'X-Requested-With:curl demo2' -u "xxxx_sx4:Abcd123#" -X GET
"https://<qualys_base_url>/api/4.0/fo/subscription/option_profile/?action
=export&option_profile_id=7293777&option_profile_type=compliance"
```

XML Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE OPTION_PROFILES SYSTEM
"https://<qualys_base_url>/api/4.0/fo/subscription/option_profile/option_
profile_info.dtd">
<OPTION_PROFILES>
<OPTION_PROFILE>
<BASIC_INFO>
<ID>7293777</ID>
<GROUP_NAME>
<![CDATA[test ss]]>
```

```
</GROUP_NAME>
<GROUP_TYPE>compliance</GROUP_TYPE>
<USER_ID>
<![CDATA[xxxx Vxxx (quays_sx4)]]>
</USER_ID>
<UNIT_ID>0</UNIT_ID>
<SUBSCRIPTION_ID>89081</SUBSCRIPTION_ID>
<IS_GLOBAL>0</IS_GLOBAL>
<UPDATE_DATE>2024-08-09T11:01:49Z</UPDATE_DATE>
</BASIC_INFO>
<SCAN>
<PORTS>
<TARGETED_SCAN>1</TARGETED_SCAN>
</PORTS>
<PERFORMANCE>
<PARALLEL_SCALING>0</PARALLEL_SCALING>
<OVERALL_PERFORMANCE>Normal</OVERALL_PERFORMANCE>
<HOSTS_TO_SCAN>
<EXTERNAL_SCANNERS>15</EXTERNAL_SCANNERS>
<SCANNER_APPLIANCES>30</SCANNER_APPLIANCES>
</HOSTS_TO_SCAN>
<PROCESSES_TO_RUN>
<TOTAL_PROCESSES>10</TOTAL_PROCESSES>
<HTTP_PROCESSES>10</HTTP_PROCESSES>
</PROCESSES_TO_RUN>
<PACKET_DELAY>Medium</PACKET_DELAY>

<PORT_SCANNING_AND_HOST_DISCOVERY>Normal</PORT_SCANNING_AND_HOST_DISCOVER
Y>
</PERFORMANCE>
<DISSOLVABLE_AGENT>
<DISSOLVABLE_AGENT_ENABLE>0</DISSOLVABLE_AGENT_ENABLE>
<PASSWORD_AUDITING_ENABLE>
<HAS_PASSWORD_AUDITING_ENABLE>0</HAS_PASSWORD_AUDITING_ENABLE>
</PASSWORD_AUDITING_ENABLE>
<WINDOWS_SHARE_ENUMERATION_ENABLE>0</WINDOWS_SHARE_ENUMERATION_ENABLE>
<WINDOWS_DIRECTORY_SEARCH_ENABLE>0</WINDOWS_DIRECTORY_SEARCH_ENABLE>
</DISSOLVABLE_AGENT>
<FILE_INTEGRITY_MONITORING>
<AUTO_UPDATE_EXPECTED_VALUE>0</AUTO_UPDATE_EXPECTED_VALUE>
</FILE_INTEGRITY_MONITORING>
<CONTROL_TYPES>
<FIM_CONTROLS_ENABLED>0</FIM_CONTROLS_ENABLED>
<CUSTOM_WMI_QUERY_CHECKS>0</CUSTOM_WMI_QUERY_CHECKS>
</CONTROL_TYPES>
<DEAD_HOST_PROCESSING>
<PROCESS_DEAD_HOST_ENABLED>1</PROCESS_DEAD_HOST_ENABLED>
<DEAD_HOST_TIMES_NOT_FOUND>12</DEAD_HOST_TIMES_NOT_FOUND>
</DEAD_HOST_PROCESSING>
```

```
</SCAN>
<ADDITIONAL>
<HOST_DISCOVERY>
<TCP_PORTS>
<STANDARD_SCAN>1</STANDARD_SCAN>
</TCP_PORTS>
<UDP_PORTS>
<STANDARD_SCAN>1</STANDARD_SCAN>
</UDP_PORTS>
<ICMP>1</ICMP>
</HOST_DISCOVERY>
<PACKET_OPTIONS>
<IGNORE_FIREWALL_GENERATED_TCP_RST>0</IGNORE_FIREWALL_GENERATED_TCP_RST>

<IGNORE_FIREWALL_GENERATED_TCP_SYN_ACK>0</IGNORE_FIREWALL_GENERATED_TCP_S
YN_ACK>

<NOT_SEND_TCP_ACK_OR_SYN_ACK_DURING_HOST_DISCOVERY>0</NOT_SEND_TCP_ACK_OR
_SYN_ACK_DURING_HOST_DISCOVERY>
</PACKET_OPTIONS>
</ADDITIONAL>
<INSTANCE_DATA_COLLECTION />
<OS_BASED_INSTANCE_DISC_COLLECTION />
</OPTION_PROFILE>
</OPTION_PROFILES>
```

DTD Update

The following new tags have been added

- <!ELEMENT DEAD_HOST_PROCESSING (PROCESS_DEAD_HOST_ENABLED?, DEAD_HOST_TIMES_NOT_FOUND?)>
- <!ELEMENT PROCESS_DEAD_HOST_ENABLED (#PCDATA)>
- <!ELEMENT DEAD_HOST_TIMES_NOT_FOUND (#PCDATA)>

DTD output for List Option Profile

```
<!ELEMENT OPTION_PROFILES (OPTION_PROFILE)*>

<!ELEMENT OPTION_PROFILE (BASIC_INFO, SCAN, MAP?, ADDITIONAL,
INSTANCE_DATA_COLLECTION?,OS_BASED_INSTANCE_DISC_COLLECTION?)>
<!ELEMENT BASIC_INFO (ID, GROUP_NAME, GROUP_TYPE, USER_ID, UNIT_ID,
SUBSCRIPTION_ID, IS_DEFAULT?, IS_GLOBAL?, IS_OFFLINE_SYNCABLE?,
UPDATE_DATE?)>
<!ELEMENT ID (#PCDATA)>
<!ELEMENT GROUP_NAME (#PCDATA)>
<!ELEMENT GROUP_TYPE (#PCDATA)>
<!ELEMENT USER_ID (#PCDATA)>
<!ELEMENT UNIT_ID (#PCDATA)>
<!ELEMENT SUBSCRIPTION_ID (#PCDATA)>
<!ELEMENT IS_DEFAULT (#PCDATA)>
<!ELEMENT IS_GLOBAL (#PCDATA)>
<!ELEMENT IS_OFFLINE_SYNCABLE (#PCDATA)>
<!ELEMENT UPDATE_DATE (#PCDATA)>

<!ELEMENT SCAN (PORTS?, SCAN_DEAD_HOSTS?, CLOSE_VULNERABILITIES?,
PURGE_OLD_HOST_OS_CHANGED?, PERFORMANCE?, LOAD_BALANCER_DETECTION?,
PASSWORD_BRUTE_FORCING?, VULNERABILITY_DETECTION?, AUTHENTICATION?,
AUTHENTICATION_LEAST_PRIVILEGE?, ADDL_CERT_DETECTION?,
DISSOLVABLE_AGENT?, SCAN_RESTRICTION?, DATABASE_PREFERENCE_KEY?,
SYSTEM_AUTH_RECORD?, LITE_OS_SCAN?, CUSTOM_HTTP_HEADER?,
HOST_ALIVE_TESTING?, ETHERNET_IP_PROBING?, FILE_INTEGRITY_MONITORING?,
CONTROL_TYPES?, DEAD_HOST_PROCESSING?, DO_NOT_OVERWRITE_OS?,
TEST_AUTHENTICATION?, MAX_SCAN_DURATION_PER_ASSET?,
PERFORM_PARTIAL_SSL_TLS_AUDITING?)>

<!ELEMENT PORTS (TCP_PORTS?, UDP_PORTS?, AUTHORITATIVE_OPTION?,
(STANDARD_SCAN|TARGETED_SCAN)?)>
<!ELEMENT TCP_PORTS (TCP_PORTS_TYPE?, TCP_PORTS_STANDARD_SCAN?,
TCP_PORTS_ADDITIONAL?, THREE_WAY_HANDSHAKE?, STANDARD_SCAN?,
TCP_ADDITIONAL?)>
<!ELEMENT TCP_PORTS_TYPE (#PCDATA)>
<!ELEMENT TCP_PORTS_ADDITIONAL (HAS_ADDITIONAL?, ADDITIONAL_PORTS?)>
<!ELEMENT HAS_ADDITIONAL (#PCDATA)>
<!ELEMENT ADDITIONAL_PORTS (#PCDATA)>
```

```
<!ELEMENT THREE_WAY_HANDSHAKE (#PCDATA)>

<!ELEMENT UDP_PORTS (UDP_PORTS_TYPE?, UDP_PORTS_STANDARD_SCAN?,
UDP_PORTS_ADDITIONAL?, (STANDARD_SCAN|CUSTOM_PORT)?)>
<!ELEMENT UDP_PORTS_TYPE (#PCDATA)>
<!ELEMENT UDP_PORTS_ADDITIONAL (HAS_ADDITIONAL?, ADDITIONAL_PORTS?)>

<!ELEMENT AUTHORITATIVE_OPTION (#PCDATA)>
<!ELEMENT STANDARD_SCAN (#PCDATA)>
<!ELEMENT TARGETED_SCAN (#PCDATA)>

<!ELEMENT SCAN_DEAD_HOSTS (#PCDATA)>

<!ELEMENT CLOSE_VULNERABILITIES (HAS_CLOSE_VULNERABILITIES?,
HOST_NOT_FOUND_ALIVE?)>
<!ELEMENT HAS_CLOSE_VULNERABILITIES (#PCDATA)>
<!ELEMENT HOST_NOT_FOUND_ALIVE (#PCDATA)>

<!ELEMENT PURGE_OLD_HOST_OS_CHANGED (#PCDATA)>

<!ELEMENT PERFORMANCE (PARALLEL_SCALING?, OVERALL_PERFORMANCE,
HOSTS_TO_SCAN, PROCESSES_TO_RUN, PACKET_DELAY,
PORT_SCANNING_AND_HOST_DISCOVERY, EXTERNAL_SCANNERS_TO_USE?,
HOST_CGI_CHECKS?, MAX_CGI_CHECKS?, MAX_TARGETS_PER_SLICE?,
MAX_NUMBER_OF_TARGETS?, CONF_SCAN_LIMITED_CONNECTIVITY?,
SKIP_PRE_SCANNING?, SCAN_MULTIPLE_SLICES_PER_SCANNER?)>
<!ELEMENT PARALLEL_SCALING (#PCDATA)>
<!ELEMENT OVERALL_PERFORMANCE (#PCDATA)>
<!ELEMENT HOSTS_TO_SCAN (EXTERNAL_SCANNERS, SCANNER_APPLIANCES)>
<!ELEMENT EXTERNAL_SCANNERS (#PCDATA)>
<!ELEMENT SCANNER_APPLIANCES (#PCDATA)>
<!ELEMENT PROCESSES_TO_RUN (TOTAL_PROCESSES, HTTP_PROCESSES)>
<!ELEMENT TOTAL_PROCESSES (#PCDATA)>
<!ELEMENT HTTP_PROCESSES (#PCDATA)>
<!ELEMENT PACKET_DELAY (#PCDATA)>
<!ELEMENT PORT_SCANNING_AND_HOST_DISCOVERY (#PCDATA)>
<!ELEMENT EXTERNAL_SCANNERS_TO_USE (#PCDATA)>
<!ELEMENT HOST_CGI_CHECKS (#PCDATA)>
<!ELEMENT MAX_CGI_CHECKS (#PCDATA)>
<!ELEMENT MAX_TARGETS_PER_SLICE (#PCDATA)>
<!ELEMENT MAX_NUMBER_OF_TARGETS (#PCDATA)>
<!ELEMENT CONF_SCAN_LIMITED_CONNECTIVITY (#PCDATA)>
<!ELEMENT SKIP_PRE_SCANNING (#PCDATA)>
<!ELEMENT SCAN_MULTIPLE_SLICES_PER_SCANNER (#PCDATA)>
<!ELEMENT LOAD_BALANCER_DETECTION (#PCDATA)>

<!ELEMENT PASSWORD_BRUTE_FORCING (SYSTEM?, CUSTOM_LIST?)>
<!ELEMENT SYSTEM (HAS_SYSTEM?, SYSTEM_LEVEL?)>
<!ELEMENT HAS_SYSTEM (#PCDATA)>
```

```
<!ELEMENT SYSTEM_LEVEL (#PCDATA)>

<!ELEMENT CUSTOM_LIST (CUSTOM+)>
<!ELEMENT CUSTOM (ID, TITLE, TYPE?, LOGIN_PASSWORD?)+>
<!ELEMENT TITLE (#PCDATA)>
<!ELEMENT TYPE (#PCDATA)>
<!ELEMENT LOGIN_PASSWORD (#PCDATA)>

<!ELEMENT MAX_SCAN_DURATION_PER_ASSET (#PCDATA)>

<!ELEMENT VULNERABILITY_DETECTION ((COMPLETE|CUSTOM_LIST|RUNTIME),
DETECTION_INCLUDE?, DETECTION_EXCLUDE?)>
<!ELEMENT COMPLETE (#PCDATA)>
<!ELEMENT RUNTIME (#PCDATA)>

<!ELEMENT DETECTION_INCLUDE (BASIC_HOST_INFO_CHECKS, OVAL_CHECKS,
QRDI_CHECKS?)>
<!ELEMENT BASIC_HOST_INFO_CHECKS (#PCDATA)>
<!ELEMENT OVAL_CHECKS (#PCDATA)>
<!ELEMENT QRDI_CHECKS (#PCDATA)>
<!ELEMENT DETECTION_EXCLUDE (CUSTOM_LIST+)>

<!ELEMENT AUTHENTICATION (#PCDATA)>
<!ELEMENT AUTHENTICATION_LEAST_PRIVILEGE (#PCDATA)>
<!ELEMENT ADDL_CERT_DETECTION (#PCDATA)>

<!ELEMENT DISSOLVABLE_AGENT (DISSOLVABLE_AGENT_ENABLE,
PASSWORD_AUDITING_ENABLE?, WINDOWS_SHARE_ENUMERATION_ENABLE,
WINDOWS_DIRECTORY_SEARCH_ENABLE?)>
<!ELEMENT DISSOLVABLE_AGENT_ENABLE (#PCDATA)>
<!ELEMENT PASSWORD_AUDITING_ENABLE (HAS_PASSWORD_AUDITING_ENABLE?,
CUSTOM_PASSWORD_DICTIONARY?)>
<!ELEMENT HAS_PASSWORD_AUDITING_ENABLE (#PCDATA)>
<!ELEMENT CUSTOM_PASSWORD_DICTIONARY (#PCDATA)>
<!ELEMENT WINDOWS_SHARE_ENUMERATION_ENABLE (#PCDATA)>
<!ELEMENT WINDOWS_DIRECTORY_SEARCH_ENABLE (#PCDATA)>

<!ELEMENT SCAN_RESTRICTION (SCAN_BY_POLICY?)>
<!ELEMENT SCAN_BY_POLICY  (POLICY+)>
<!ELEMENT POLICY (ID, TITLE)>

<!ELEMENT DATABASE_PREFERENCE_KEY (MSSQL?, ORACLE?, SYBASE?, POSTGRESQL?,
SAPIQ?, DB2?)>
<!ELEMENT MSSQL (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>
<!ELEMENT ORACLE (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>
<!ELEMENT SYBASE (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>
<!ELEMENT POSTGRESQL (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>
<!ELEMENT SAPIQ (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>
<!ELEMENT DB2 (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>
```

```
<!ELEMENT DB_UDC_RESTRICTION (#PCDATA)>
<!ELEMENT DB_UDC_LIMIT (#PCDATA)>

<!ELEMENT SYSTEM_AUTH_RECORD (ALLOW_AUTH_CREATION|INCLUDE_SYSTEM_AUTH)>
<!ELEMENT ALLOW_AUTH_CREATION (AUTHENTICATION_TYPE_LIST,
IBM_WAS_DISCOVERY_MODE?, ORACLE_AUTHENTICATION_TEMPLATE?,
MONGODB_AUTHENTICATION_TEMPLATE?, MYSQL_AUTHENTICATION_TEMPLATE?)>
<!ELEMENT AUTHENTICATION_TYPE_LIST  (AUTHENTICATION_TYPE+)>
<!ELEMENT AUTHENTICATION_TYPE (#PCDATA)>
<!ELEMENT IBM_WAS_DISCOVERY_MODE  (#PCDATA)>
<!ELEMENT ORACLE_AUTHENTICATION_TEMPLATE  (ID, TITLE)>
<!ELEMENT MONGODB_AUTHENTICATION_TEMPLATE  (ID, TITLE)>
<!ELEMENT MYSQL_AUTHENTICATION_TEMPLATE  (ID, TITLE)>
<!ELEMENT INCLUDE_SYSTEM_AUTH
(ON_DUPLICATE_USE_USER_AUTH|ON_DUPLICATE_USE_SYSTEM_AUTH)>
<!ELEMENT ON_DUPLICATE_USE_USER_AUTH (#PCDATA)>
<!ELEMENT ON_DUPLICATE_USE_SYSTEM_AUTH (#PCDATA)>

<!ELEMENT LITE_OS_SCAN (#PCDATA)>
<!ELEMENT CUSTOM_HTTP_HEADER (VALUE?, DEFINITION_KEY?,
DEFINITION_VALUE?)>
<!ELEMENT VALUE (#PCDATA)>
<!ELEMENT DEFINITION_KEY (#PCDATA)>
<!ELEMENT DEFINITION_VALUE (#PCDATA)>

<!ELEMENT HOST_ALIVE_TESTING (#PCDATA)>

<!ELEMENT ETHERNET_IP_PROBING (#PCDATA)>

<!ELEMENT FILE_INTEGRITY_MONITORING (AUTO_UPDATE_EXPECTED_VALUE?)>
<!ELEMENT AUTO_UPDATE_EXPECTED_VALUE (#PCDATA)>

<!ELEMENT CONTROL_TYPES (FIM_CONTROLS_ENABLED?,
CUSTOM_WMI_QUERY_CHECKS?)>
<!ELEMENT FIM_CONTROLS_ENABLED (#PCDATA)>
<!ELEMENT CUSTOM_WMI_QUERY_CHECKS (#PCDATA)>
<!ELEMENT DO_NOT_OVERWRITE_OS (#PCDATA)>
<!ELEMENT TEST_AUTHENTICATION (#PCDATA)>
<!ELEMENT PERFORM_PARTIAL_SSL_TLS_AUDITING (#PCDATA)>


<!ELEMENT MAP (BASIC_INFO_GATHERING_ON, TCP_PORTS?, UDP_PORTS?,
MAP_OPTIONS?, MAP_PERFORMANCE?, MAP_AUTHENTICATION?, DISCONNECTED_ESXI?)>

<!ELEMENT BASIC_INFO_GATHERING_ON (#PCDATA)>
<!ELEMENT TCP_PORTS_STANDARD_SCAN (#PCDATA)>

<!ELEMENT UDP_PORTS_STANDARD_SCAN (#PCDATA)>
```

```
<!ELEMENT MAP_OPTIONS (PERFORM_LIVE_HOST_SWEEP?,  DISABLE_DNS_TRAFFIC?)>
<!ELEMENT PERFORM_LIVE_HOST_SWEEP (#PCDATA)>
<!ELEMENT DISABLE_DNS_TRAFFIC (#PCDATA)>

<!ELEMENT MAP_PERFORMANCE (OVERALL_PERFORMANCE, MAP_PARALLEL?,
PACKET_DELAY)>
<!ELEMENT MAP_PARALLEL (EXTERNAL_SCANNERS, SCANNER_APPLIANCES,
NETBLOCK_SIZE)>
<!ELEMENT NETBLOCK_SIZE (#PCDATA)>

<!ELEMENT MAP_AUTHENTICATION (#PCDATA)>
<!ELEMENT DISCONNECTED_ESXI (#PCDATA)>

<!ELEMENT ADDITIONAL (HOST_DISCOVERY, BLOCK_RESOURCES?, PACKET_OPTIONS?)>
<!ELEMENT HOST_DISCOVERY (TCP_PORTS?, UDP_PORTS?, ICMP?)>

<!ELEMENT TCP_ADDITIONAL (HAS_ADDITIONAL?, ADDITIONAL_PORTS?)>

<!ELEMENT CUSTOM_PORT (#PCDATA)>

<!ELEMENT ICMP (#PCDATA)>

<!ELEMENT BLOCK_RESOURCES
((WATCHGUARD_DEFAULT_BLOCKED_PORTS|CUSTOM_PORT_LIST),
(ALL_REGISTERED_IPS|CUSTOM_IP_LIST))>
<!ELEMENT WATCHGUARD_DEFAULT_BLOCKED_PORTS (#PCDATA)>
<!ELEMENT CUSTOM_PORT_LIST (#PCDATA)>
<!ELEMENT ALL_REGISTERED_IPS (#PCDATA)>
<!ELEMENT CUSTOM_IP_LIST (#PCDATA)>

<!ELEMENT PACKET_OPTIONS (IGNORE_FIREWALL_GENERATED_TCP_RST?,
IGNORE_ALL_TCP_RST?,  IGNORE_FIREWALL_GENERATED_TCP_SYN_ACK?,
NOT_SEND_TCP_ACK_OR_SYN_ACK_DURING_HOST_DISCOVERY?)>
<!ELEMENT IGNORE_FIREWALL_GENERATED_TCP_RST (#PCDATA)>
<!ELEMENT IGNORE_ALL_TCP_RST (#PCDATA)>
<!ELEMENT IGNORE_FIREWALL_GENERATED_TCP_SYN_ACK (#PCDATA)>
<!ELEMENT NOT_SEND_TCP_ACK_OR_SYN_ACK_DURING_HOST_DISCOVERY (#PCDATA)>

<!ELEMENT INSTANCE_DATA_COLLECTION (DATABASES?)>
<!ELEMENT DATABASES (AUTHENTICATION_TYPES_LIST)>
<!ELEMENT AUTHENTICATION_TYPES_LIST  (AUTHENTICATION_TYPE+)>

<!ELEMENT OS_BASED_INSTANCE_DISC_COLLECTION (TECHNOLOGIES?)>
<!ELEMENT TECHNOLOGIES (TECHNOLOGY+)>
<!ELEMENT TECHNOLOGY  (#PCDATA)>

<!ELEMENT DEAD_HOST_PROCESSING (PROCESS_DEAD_HOST_ENABLED?,
DEAD_HOST_TIMES_NOT_FOUND?)>
<!ELEMENT PROCESS_DEAD_HOST_ENABLED (#PCDATA)>
```

```
<!ELEMENT DEAD_HOST_TIMES_NOT_FOUND (#PCDATA)>
```