



EMC® Watch4net®

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Alerting Backend Admin Guide

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Preface

Purpose

The *Alerting Backend* web service allows administrators to interact with the *Alerting Backend* alert definitions.

Important note

The *Alerting Backend* configuration is handled by the alerting frontend web application or by the alerting backend web service. They are **not** meant to be manually edited. Please be advised.

Intended Audience

This guide is intended for advanced *APG* administrators or third party developers that have a good knowledge of the *APG* framework.

Prerequisites

This guide assumes that you have an *APG* installation ready with the webservice- gateway and the alerting backend module installed.

Where to get help

EMC support, product, and licensing information can be obtained as follows:

PRODUCT INFORMATION - For documentation, release notes, software updates, or information about EMC products, go to EMC Online Support at:

<https://support.emc.com>

TECHNICAL SUPPORT - Go to EMC Online Support and click Service Center. You will see several options for contacting EMC Technical Support. Note that to open a service request, you must have a valid support agreement. Contact your EMC sales representative for details about obtaining a valid support agreement or with questions about your account.

1

Product Overview

The *Alerting Backend* provides a way via a web-service to create, update, get, list and delete alert definitions. This service definition is accessible through the url of the webservice-gateway, usually at <https://<apg.server>:48443/Backends/Alerting-Backend/<Instance>/?wsdl>.

2

Configuration

The *Alerting Backend* web service needs no special configuration. It is started and registered in the webservice gateway when the *Alerting Backend* service starts.

Web Service Definition

1 Alert definitions

1.1 listDefinition

`path*` **listDefinition**

List all the alert definitions currently defined in the backend.

Returns:

- *path**: a list of all the alert definitions names. (zero or more)

Request Samples:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:aler="http://www.
watch4net.com/APG/Management/AlertingService">
  <soapenv:Header/>
  <soapenv:Body>
    <aler:listDefinition/>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Samples:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <listDefinitionResponse xmlns="http://www.watch4net.com/APG/Management/AlertingService">
      <definition>Examples/Alert on APG Report</definition>
      <definition>Examples/Average Comparator</definition>
      <definition>Examples/Baseline Comparator</definition>
      <definition>Examples/IPSLA</definition>
      <definition>Examples/Multiple Overflows Comparator</definition>
      <definition>Examples/Multiple Severities Comparator</definition>
      <definition>Examples/Simple Comparator</definition>
      <definition>Examples/Simple SNMP Trap</definition>
      <definition>Examples/Sustained Average Comparator</definition>
      <definition>File System Utilization</definition>
      <definition>Firewall Fans 3A</definition>
      <definition>Recursive</definition>
    </listDefinitionResponse>
  </S:Body>
</S:Envelope>
```

1.2 getDefinition

file **getDefinitions**(*path*) throws `AlertingServiceException`

Returns a file containing the definition of the alert with the given path.

Parameters:

- *path*: Path to the given alert definition or a folder. If the given path points to a folder, all the alerts in that folder and subfolders, if any, will be returned.

Returns:

- *file*: XML file containing the definitions of the alert(s) defined at the given path.

Throws:

- *AlertingServiceException*:
 - if the path is null.
 - if there is an error while retrieving the alert(s) at the given path.

Request Samples:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:aler="http://www.watch4net.com/APG/Management/AlertingService">
  <soapenv:Header/>
  <soapenv:Body>
    <aler:getDefinition>
      <aler:path>Def</aler:path>
    </aler:getDefinition>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Samples:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <getDefinitionResponse xmlns="http://www.watch4net.com/APG/Management/AlertingService">
      <configuration size="1" name="alerting-configuration.xml">
        <xop:Include href="cid:ea10a58f-da38-47df-94a2-ff031051fa3b@watch4net.com" xmlns:xop="http://www.w3.org/2004/08/xop/include"/>
      </configuration>
    </getDefinitionResponse>
  </S:Body>
```

```
</S:Envelope>
```

1.3 createDefinition

path* **createDefinition**(*file*) throws *AlertingServiceException*

Returns a list of path names corresponding to the successfully create alerts from the given file. The alerts defined in the file which already exists in the alerting will be skipped.

Parameters:

- *file*: Alerting configuration file that contains alert definitions to create.

Returns:

- *path**: List of alert paths that have successfully created. (zero or more)

Throws:

- *AlertingServiceException*:
 - if there is no file given.
 - if there is an error while creating the alerts.

Request Samples:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:aler="http://www.watch4net.com/APG/Management/AlertingService">
  <soapenv:Header/>
  <soapenv:Body>
    <aler:createDefinition>
      <aler:configuration name="create_alerting.xml" size="-1">cid:create_alerting.xml</aler:configuration>
    </aler:createDefinition>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Samples:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <createDefinitionResponse xmlns="http://www.watch4net.com/APG/Management/AlertingService">
      <definition>Firewall Fans 3A</definition>
      <definition>Firewall Fans 3B</definition>
    </createDefinitionResponse>
  </S:Body>
</S:Envelope>
```

1.4 deleteDefinition

path* **deleteDefinition**(path) throws *AlertingServiceException*

Returns the of alert paths that were deleted.

Parameters:

- *path*: Alert or folder path to remove.

Returns:

- *path**: List of alert paths that were successfully removed. (zero or more)

Throws:

- *AlertingServiceException*:
 - if the path is NULL.
 - if there is an error while deleting the alert definition(s).

Request Samples:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:aler="http://www.watch4net.com/APG/Management/AlertingService">
  <soapenv:Header/>
  <soapenv:Body>
    <aler:deleteDefinition>
      <aler:path>Examples</aler:path>
    </aler:deleteDefinition>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Samples:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <deleteDefinitionResponse xmlns="http://www.watch4net.com/APG/Management/AlertingService">
      <definition>Examples/Alert on APG Report</definition>
      <definition>Examples/Average Comparator</definition>
      <definition>Examples/Baseline Comparator</definition>
      <definition>Examples/IPSLA</definition>
      <definition>Examples/Multiple Overflows Comparator</definition>
      <definition>Examples/Multiple Severities Comparator</definition>
      <definition>Examples/Simple Comparator</definition>
      <definition>Examples/Simple SNMP Trap</definition>
      <definition>Examples/Sustained Average Comparator</definition>
    </deleteDefinitionResponse>
  </S:Body>
</S:Envelope>
```

1.5 updateDefinition

path* **updateDefinition**(*file*) throws AlertingServiceException

Returns a list of successfully updated alert(s).

Parameters:

- *file*: Alerting configuration file that contains alert definitions to update.

Returns:

- *path**: List of alert paths that have been updated. (zero or more)

Throws:

- *MasterAccessorServiceException*:
 - if the there is no file sent.
 - if there is an error while updating the alerts.

Request Samples:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:aler="http://www.watch4net.com/APG/Management/AlertingService">
  <soapenv:Header/>
  <soapenv:Body>
    <aler:updateDefinition>
      <aler:configuration name="update_alerting.xml" size="-1">cid:update_alerting.xml</aler:configuration>
    </aler:updateDefinition>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Samples:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <updateDefinitionResponse xmlns="http://www.watch4net.com/APG/Management/AlertingService">
      <definition>Examples/Simple SNMP Trap</definition>
      <definition>File System Utilization</definition>
      <definition>Examples/Multiple Severities Comparator</definition>
      <definition>Examples/IPSLA</definition>
      <definition>Examples/Alert on APG Report</definition>
      <definition>Examples/Average Comparator</definition>
      <definition>Examples/Sustained Average Comparator</definition>
      <definition>Examples/Simple Comparator</definition>
      <definition>Examples/Multiple Overflows Comparator</definition>
    </updateDefinitionResponse>
  </S:Body>
</S:Envelope>
```

```
<definition>Examples/Baseline Comparator</definition>
</updateDefinitionResponse>
</S:Body>
</S:Envelope>
```