



EMC® Watch4net®

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Timestamp Sysuptime Matching Filter Guide

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EMC²

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Preface

The purpose of this guide is to provide configuration and usage information about the *Timestamp Sysuptime Matching Filter*.

Intended Audience

APG administrators and system integrators, as well as users responsible of managing data collection configuration should read this document.

Prerequisites

The *APG* collector manager must be installed. This filter module may be used with *APG* versions 5.0 and later.

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

Description

This filter is used to align a device polled sysuptime with the timestamp at which it was polled.

It may be useful when table rows have a timestamp specified as the device sysuptime. Such is the case of the IPSLA rttMonCollectionHistoryTable (.1.3.6.1.4.1.9.9.42.1.4.1), which has a timestamp column (.1.4) used to indicate the time at which the row was added in the table. This timestamp (sysUpTime) must be translated to a correct temporal value in order to use it with other collected values.

It works as follows: sysUpTime must be polled first on the device, in an expendable value. Then the time translation is calculated and accessible for this device.

Once a raw value with the timestamp propertyName arrives, its polled timestamp is replaced with the calculated one. Then the raw value is sent on to the next component, unless its calculated timestamp is in the future.

2

Installation

The *Timestamp Sysuptime Matching Filter* module may be installed like any other module. The package name is: "timestamp-sysuptime-matching-filter". Use the module manager to install this module.

Then, edit the APG/Collecting/Collector-Manager/Default/conf/collecting.xml file (location may vary depending upon installation location and Collector-Manager instance name) and insert the following line in the existing configuration. Please refer to the *APG Backend Administration Guide* if unsure on how to do this.

```
<?xml version="1.0" encoding="UTF-8"?>
<config ...>
  <connectors>
    ... connector already defined ...
  </connectors>
  <filters>
    ... next filter ...
    <filter enabled="true" name="MyFilter" next="NextFilter"
      conf="Timestamp-Sysuptime-Matching-Filter/Default/conf/MyFilterConf.xml" />
    ... previous filter ...
  </filters>
```

The "MyFilterConf.xml" configuration file should be located in the APG/Collecting/Timestamp-Sysuptime-Matching-Filter/Default/conf/ directory. This file will contain your customized configuration for this filter. Create and edit as explained in this document's Configuration section. Then restart the *APG* Collector Manager service.

3

Configuration

This section contains a configuration example as well as the description of the available configuration elements.

1 Configuration example

Let's use the following example in order to create a configuration for this filter:

```
<?xml version="1.0" encoding="UTF-8"?>
<tns:timestamp-sysuptime-matching-config xmlns:tns="http://www.watch4net.com/timestamp-sysuptime-
matching"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.watch4net.com/timestamp-sysuptime-matching_timestamp-sysuptime-
matching.xsd">
  <tns:timestamp-sysuptime-matching drop-sysuptime-rawvalue="true">
    <tns:sysuptime-rawvalue-name>sysUpSaa</tns:sysuptime-rawvalue-name>
    <tns:rawvalue-name-property name="HistoryCollectionSense" dropWhenValueIsZero="false"/>
    <tns:rawvalue-name-property name="HistoryCollectionCompletionTime" dropWhenValueIsZero="true"/>
    <tns:rawvalue-timestamp-property>timestamp</tns:rawvalue-timestamp-property>
  </tns:timestamp-sysuptime-matching>
```

```
</tns:timestamp-sysuptime-matching-config>
```

Note: Please use an XML editor which supports XML schema validation to edit this configuration file.

2 Configuration elements description

<tns:sysuptime-rawvalue-name> : the name property of the sysUpTime raw value to use for timestamp alignment.

<tns:rawvalue-name-property> : the name property of the raw values to handle with this filter.

<tns:dropWhenValueIsZero> : drop the raw value if it's value is zero when set to true.

<tns:rawvalue-timestamp-property> : property of the raw value which contains the timestamp to use for alignment.