

# Nimsoft Monitor Probe Configuration Archive



## **Version 1.0**

This document will provide details on the configuration and usage of the Probe Configuration Archive probe.

## **Probe Features**

This probe will archive every probe configuration in your Nimsoft environment on a customizable interval and automatically do configuration differentials between the current and previous configurations. This will allow a Nimsoft administrator to track configuration changes in their environment automatically.

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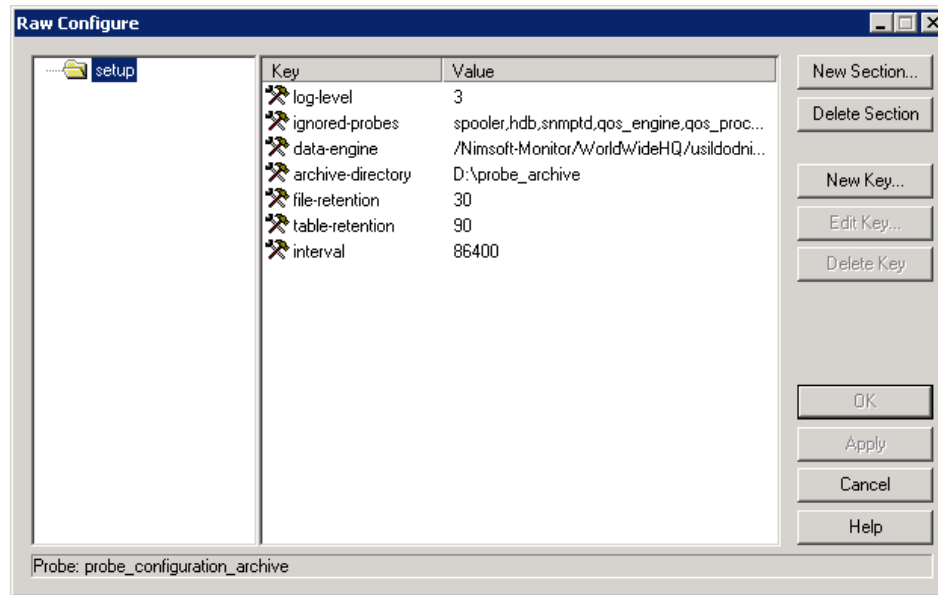
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## Prerequisites

- Nimsoft Server version 6.5 or greater (Only tested on Windows/MSSQL at this time)
- Java\_jre version  $\geq 1.6$

## Probe Configuration

This probe can only be configured using Raw Configure mode.



**ignored-probes:** Use a comma separated list of probe configurations you wish to be excluded from collection

**data-engine:** Nimsoft address of the data\_engine (can just be data\_engine if deployed on primary hub)

**archive-directory:** File system location where you wish to store the configuration files

**file-retention:** Not currently available (Scheduled for next release)

**table-retention:** Not currently available (Scheduled for next release)

**interval:** Time in seconds to gather the configuration files (86400 = 24 hours)

## TECHNICAL INFORMATION

On startup the probe will talk to the data\_engine at the path you specified to detect if you have the required database tables and if not it will create them in the Nimsoft database for you. These two tables are PCA\_CFG and PCA\_CHANGES.

### PCA\_CFG TABLE

This table contains a record of each probe configuration. It stores the hub, robot, probe, probe version, filesystem path to configuration file, complete configuration file in a column, a record id and archive date.

### PCA\_CHANGES TABLE

This table contains a record of each probe configuration change. It stores the hub, robot, probe, configuration section, configuration key, previous and current configuration value, previous and current archive date and previous and current record ids.

### HOW IT WORKS

The probe uses the native callbacks provided in many probes to get the probe configurations.

1. It uses the *gethubs* callback on the hub probe to get a list of available hubs
2. Loops through each of those hubs to get a list of robots using the hub's *getrobots* callback
3. Grabs a list of probes and information on each probe from the controller via the *probe\_list* callback
4. Saves the configuration file from the robot by using the *text\_file\_get* callback
5. Inserts information about the configuration into the database
6. Compares the current and previous configuration to determine if there were any changes
7. If there are changes, writes those changes to the database

## REPORT

Included with this probe is a sample Unified Report. This report currently queries all information from the PCA\_CHANGES table.

### Probe Configuration Report

Previous Configuration Date: 2014-06-30

Current Configuration Date: 2014-06-30

Previous Record Number: 1404139937129

Current Record Number: 1404143371335

/Nimsoft-Monitor/ClientA/dod-na-nsft-p01/hub

#### dod-na-fxen-p05

probe	section	parameter	previous_value	current_value
processes	MsgProcessDown	level	information	critical

#### dod-na-fxen-p04

probe	section	parameter	previous_value	current_value
cdm	computer	qos_hourly_uptime	yes	no
cdm	computer	boot_alarm	no	yes
cdm	setup	qos_source_short	no	yes
cdm	fixed_default	qos_disk_usage_perc	no	yes
cdm	delta_error	active	no	yes
cdm	delta_error	threshold	10	200
cdm	fixed_default	delta_calculate_all	yes	no
cdm	proc_q_len	active	no	yes
cdm	proc_q_len	threshold	4	15
cdm	specific	type	NT	unix

## TODO LIST

- Test on Linux/Solaris and MYSQL/Oracle
- Enable file and table retention
- Allow ability to disable file-based configuration storage
- Add callbacks for adhoc differential between configurations based on record/date
- Update Unified Report to contain input parameters to filter report