SNMP Get and Monitor Action Pack

Introduction

This Action Pack is designated to handle SNMP Traps. It uses SNMP Get tool set to retrieve information via the SNMP protocol.

The Action Pack also provides functionality to parse the SNMP toolset responses and makes it available through an Automic Runtime Variable.

The Action Pack includes four Actions.

- SNMPGet
- SNMPGetNext
- SNMPWalk
- Monitor for a specific SNMP trap result.
  Command line Parameters and Action Prompt Fields

Input Promptset Values

The three SNMPGet, GetNext, Walk Actions sharing the same input form.

Action Pack Field	Description
SNMP Version	Version number of the SNMP Trap uses. Version 1, 2c, 3 are supported
Community	SNMP Community string to be used
Host	IP or Hostname of the SNMP Agent to be addressed
OID	OID of the SNMP trap
Overwrite Agent	Name of Unix or Automic Windows Agent to be used to execute snmpget tools
Overwrite Login	Automic Login Object with the user name with permission to run the snmp tools.

The SNMP Monitor Action has four additional parameters

Action Pack Field	Description
Trap Filter Mask	Optional filter for textual data the trap includes. You may use text fractions but do not use '*' patterns.
Trap Low Value	Optional filter for the minimum of the expected numerical value
Trap High Value	Optional filter for the maximum of the expected numerical value
Retry Count	Number of tries the monitor uses until it stops with a time out error. The Monitor waits between the tries one minute.

System Requirements

SNMP Requirements

The Action Pack depends on the Net-SNMP Toolset. It open source and available on Linux and Windows.

Linux/Unix Version

All major Linux distribution providing a Net-SNMP package. Use the package manager for the distribution to install the Net-SNMP package.

Windows (x86/x64)

The Net-SNMP webpage only offers the source code for the Windows version. There are few binary versions available in the net. I have used the version from Eli Fulkerson.

Note: The SNMPGet version from 'syslogwatcher' uses a slightly different syntax and result format which makes it incompatible with this Action Pack.

Automic Automation Engine Version

The Action is developed with Version 12.0.2 and should work with all version from version 12.0 onwards.

Installation and Configuration

Action pack Installation

Install the Action Pack by using the build in Action Pack Manager.

Action Pack Configuration

In case the Windows platform is used, it is necessary to add the path to the Net-SNMP toolset in the PCK.CONFIG.CUSTOM_SNMP_GET_AND_RECEIVE_TRAPS VARA object which is located in the 'Config' directory of the Action Pack.

Note: The Action Pack depends on the Net-SNMP toolset.