



MACMON NAC WHITE PAPER Integration of macmon Compliance Module with McAfee ePO

INTEGRATION OF MACMON COMPLIANCE MODULE WITH MCAFEE EPO



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Introduction

The macmon compliance module allows for the coupling of any compliance sources for the automated imple- mentation of the security rules with macmon. This white paper explains in short and simple steps, how the Central Management of the McAfee security solutions (ePO) can be coupled with macmon Network Access Control. The configuration and usage can be applied to any other sources – with modifications.

1. Preparations

- The macmon compliance interface (macutil) requires an authentication via https. Any user created and active in macmon can be used for it (Administrator role on macmon is required).
- In order to invoke https commands via script, a third party tool (Wget in this example) is necessary on the executing system (ePO server).

http://gnuwin32.sourceforge.net/packages/wget.htm

• The path to the installed Wget has to be later updated accordingly in the script!



2. The script

The following example script calls Wget in the first step and uses the variables transferred by ePO, in order to resolve a client IP address into the corresponding MAC address. The result is saved to a text file (stored in the path of the script). In the second step, this MAC address is read again and another Wget call now modifies the compliance state of the target system with the variables transferred by ePO. In our example, we have named the script compliance.bat:

```
" %ProgramFiles(x86)%\GnuWin32\bin\wget.exe" --output-document=- --http-user=%1
--http-password=%2 --no-check-certificate --timeout=10 --tries=2
,,https://%3/ macutil/?select=refmacs&C=[LAST_IP]='%4'" >
macmon_compliance_temp.txt
set /p mac= < macmon_compliance_temp.txt</pre>
```

```
"%ProgramFiles(x86)%\GnuWin32\bin\wget.exe" --output-document=- --http-user=%1 --http-password=%2 --no-check-certificate --timeout=10 --tries=2 https://%3/macutil/? compliance&address=%mac%&source=%5&reason=%6&status=%7
```

3. Parameters & examples:

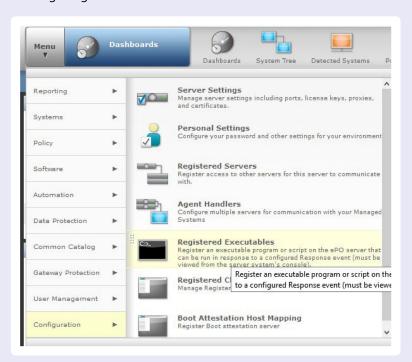
compliance.bat macmonuser password macmonip targetclientipv4 source reason status(noncompliant|compliant|te sting|almost_noncompliant|outdated)

- compliance.bat admin macmon 192.168.1.190 %targetIPV4%
 McAfee virus found noncompliant
- compliance.bat admin macmon 192.168.1.190 %targetIPV4%
 Kaspersky unauthorised USB device noncompliant
- compliance.bat admin macmon 192.168.1.190 %targetIPV4%
 WSUS missing system updates noncompliant
- compliance.bat admin macmon 192.168.1.190 %targetIPV4%
 Astaro firewall deny rule noncompliant



4. ePO configuration:

Adding a registered executable file.



In the lower left side, under Actions, a new file can be created.



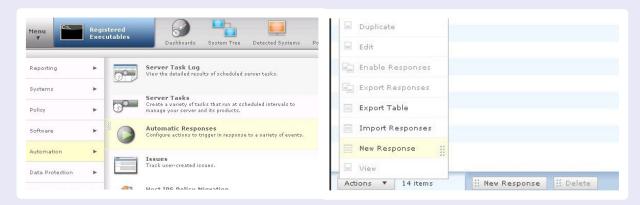


Type the name and path of	the registered executable.		
Name:	Macmon Script		
Path:	Old Path: E:\Install\Compliance.bat		
	E:\Install\Compliance.bat		
Run As:	If it is necessary to run this Registered Executable as a specific user, provide the credentials here for domain account. The user needs to have "Log on as a batch job" user rights. User Name: user@domain.com Password: Confirm Password:		
Test Executable:	To perform test run of this Registered Executable, enter any test parameters and click Run butto Arguments: Timeout (milliseconds): 60000		

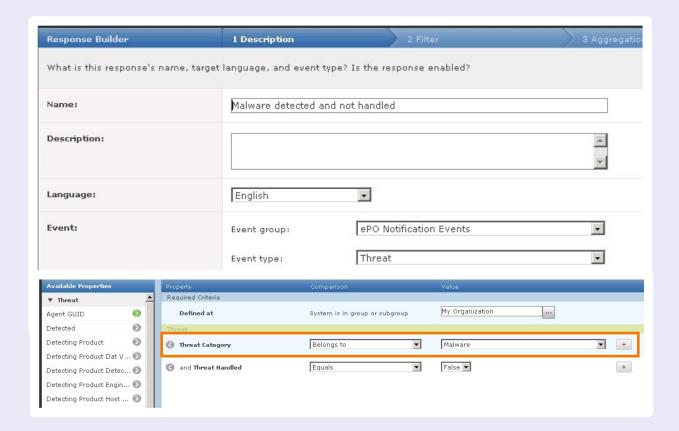
A local administrator account on the ePO server is required for the execution of the specified script! The user has to be entered as specified, with user@domain.com. If needed, the execution can also be tested. You can check if everything works as desired under "Menu - User Management - Audit Log"

This executable file can now be executed as reaction to an incoming event. In the following example, it will be exe- cuted for each malware found which could not be deleted. In this case, variables need to be transferred to the script, so macmon can for instance move the correct system to quarantine.

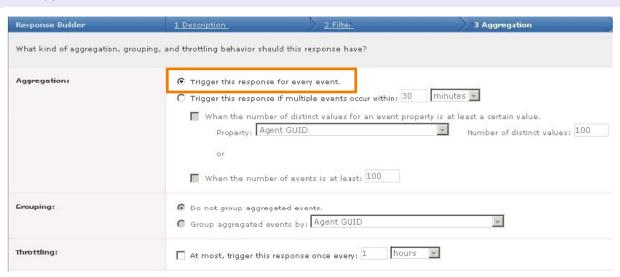
An automatic answer has to be created:





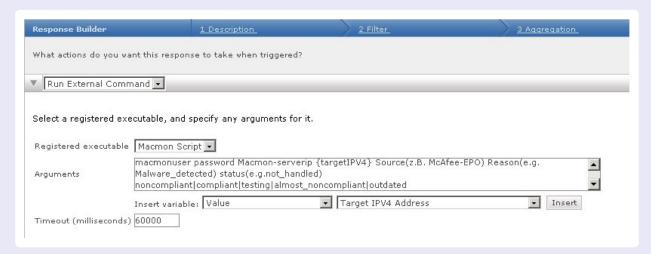


The trigger has to perform the check for each new event





If the event corresponds to the criteria, the macmon script has to be executed.



Overview of the created configuration:

This can be performed for all threat events which are sent by the client to the ePO server.

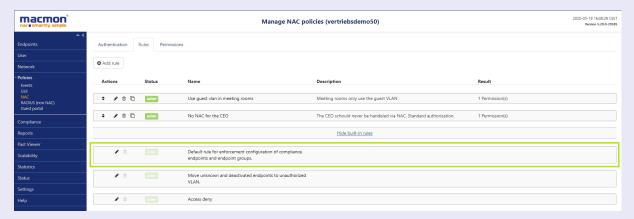
Response Builder	1 Description	<u>2 Filter</u>	3 Aggregation	
Please review the summary o	of the response below. If it is config	ured properly, click "Save". Other	wise, click "Back" to continue edi	
Name:	Malware detected and not handled			
Description:				
Language:	English			
Event:	Event group: ePO Notification Events Event type: Threat			
Status:	Enabled			
Aggregation:	Trigger this response for every event.			
Grouping:	Do not group aggregated events.			
Throttling:	This response is not throttled.			
Actions:	1: Externen Befehl ausführen			



5. macmon configuration

Should one or another Endpoint not corresponding to the company's policy being detected, then the macmon responds to the security incident and will respectively changes compliance status of the corporate device.

Hereby the standard set of rules takes effect, which automatically blocks the port or sets the VLAN stored under "Settings -> Scan Engine -> VLAN Management".

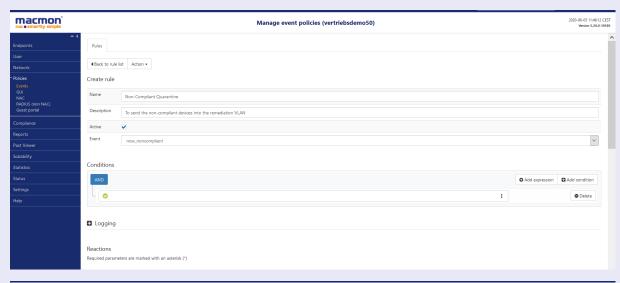


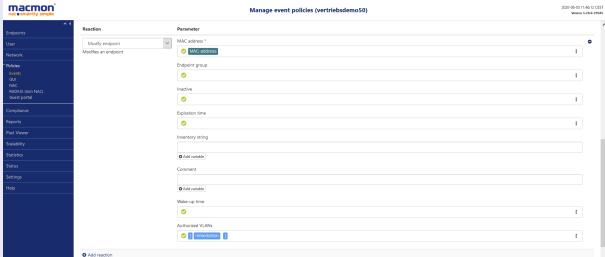
The further reactions of macmon to the change of compliance status can be defined by using automatically generated events "now_noncompliant" and "now_compliant". The event "now_noncompliant" is triggered when a corporate device is assessed as non-compliant by a source and "now_compliant" when a non-compliant device becomes compliant again.

It's possible either to set an individual targeted VLAN for different scenarios – e.g. to differentiate between the source of compliance status – or to use the remediation_vlans already listed under menu "Settings -> Scan engine -> VLAN Management -> remediation_vlans".



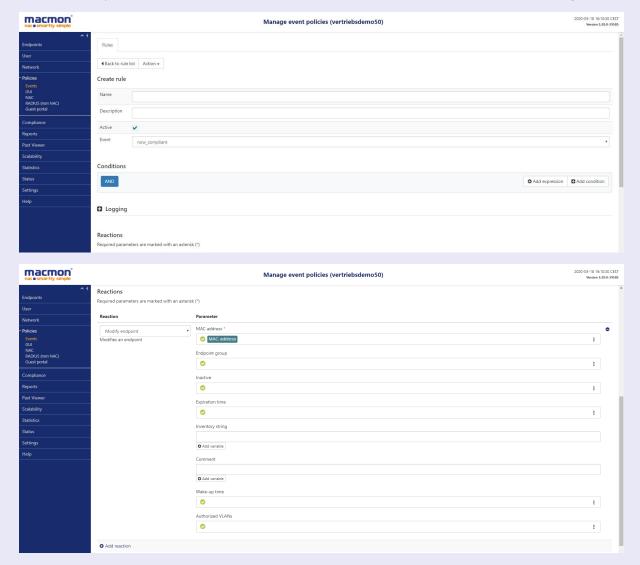
As shown in the example below, a possible reaction to the event "now_noncompliant" could be the change of Authorized VLAN. This could be configured under "Policies -> Events -> Add rule"







A respective configuration can also be done for the event "now_compliant", where the VLAN of affected MAC (previously noncompliant) can be removed, so the usual VLAN of MAC-Group can be active again.



As a matter of course, the macmon configurations are also readily transferable for connecting to other security / compliance solutions. If several systems are connected, an additional differentiated reaction can also be attained by means of the "Source, variable under "Conditions" while creating a new event rule.

Done... McAfee and macmon can be coupled together in this easy manner.

We are happy to also support you in planning or in the direct integration of your existing solutions with our competent support team. Simply approach us.

Your macmon team

Contact