

## Analysis Report for: autoit.au3

### \*\*Overall Functionality\*\*

This Autolt script exports Windows drivers to a directory named after the computer's model. It first uses PowerShell to get the computer model, then creates a directory on the desktop using that model as the name. Finally, it utilizes PowerShell's `Export-WindowsDriver` cmdlet to export the drivers to the newly created directory. The script handles errors during PowerShell execution and directory creation, displaying appropriate message boxes to the user.

### \*\*Function Summaries\*\*

\*\*\*`Run(command, workingDir, showCmd, flags)`\*\* This Autolt function executes a given command.

\* `command`: The command to execute (e.g., a PowerShell command).

\* `workingDir`: The working directory for the command.

\* `showCmd`: How the command window should be displayed (@SW\_HIDE hides it).

\* `flags`: Flags to modify the command's behavior (in this case, `\$stdout\_child` redirects standard output).

\* Return Value: The process ID of the launched process. Returns 0 if the process fails to start.

\*\*\*`ProcessWaitClose(pid)`\*\* This Autolt function waits for a process with the given process ID to close.

\* `pid`: The process ID to wait for.

\* Return Value: No explicit return value.

\*\*\*`StdoutRead(pid)`\*\* This Autolt function reads the standard output of a process.

\* `pid`: The process ID of the running process to read output from.

\* Return Value: The standard output of the process as a string.

\*\*\*`StringStripWS(str, flags)`\*\* This Autolt function removes whitespace from a string.

\* `str`: The input string.

\* `flags`: Flags that specify which type of whitespace to remove (0x3 removes leading and trailing whitespace).

\* Return Value: The string with whitespace removed.

\*\*\*`StringRegExReplace(str, regexp, replace)`\*\* This Autolt function performs a regular expression replacement on a string.

\* `str`: The input string.

\* `regexp`: The regular expression pattern to match.

\* `replace`: The replacement string.

\* Return Value: The modified string after the replacement.

\*\*\*`DirCreate(dir)`\*\* This Autolt function creates a directory.

\* `dir`: The path of the directory to create.

\* Return Value: `True` if successful, `False` otherwise.

\*\*\*`RunWait(command, workingDir, showCmd)`\*\* Similar to `Run`, but this function waits for the command to finish execution.

\* `command`: The command to execute.

\* `workingDir`: The working directory.

\* `showCmd`: How to display the command window (@SW\_SHOW shows it).

\* Return Value: The exit code of the command.

\*\*\*`MsgBox(flags, title, text)`\*\* This Autolt function displays a message box to the user.

\* `flags`: Flags that control the appearance and buttons of the message box (0x10 for error, 0x40 for information).

\* `title`: The title of the message box.

\* `text`: The text to display in the message box.

\* Return Value: The ID of the button the user pressed.

\*\*\*`ConsoleWrite(text)`\*\* Writes text to the console.

### \*\*Control Flow\*\*

1. **PowerShell Execution for Model:** The script starts by executing a PowerShell command to get the computer model. It checks if `\$ipid` (process ID) is 0. If it is, indicating failure, an error message is displayed, and the script exits. Otherwise, it waits for the PowerShell process to close and reads its output.

2. **Directory Creation:** The script extracts the computer model from the PowerShell output, handles empty outputs, sanitizes the model name to create a valid directory name, and then tries to create the target directory on the desktop. If directory creation fails, an error message is displayed, and the script exits.

3. **Driver Export:** A PowerShell command to export drivers using `Export-WindowsDriver` is constructed and executed using `RunWait`. The exit code of the PowerShell command is checked. If the exit code is 0 (success), a success message is displayed; otherwise, an error message is shown, including the exit code.

## **\*\*Data Structures\*\***

The primary data structures used are strings (`\$model`, `\$sdest`, `\$sexportcmd`, etc.) and integers (process IDs, flags, exit codes, etc.). No complex data structures like arrays or structures are used.

## **\*\*Malware Family Suggestion\*\***

While the core functionality of exporting drivers isn't inherently malicious, the script's actions raise several red flags that suggest potential for abuse in malware:

**\*\*Elevated Privileges:\*\*** The `#RequireAdmin` directive demands administrator privileges. This is a common characteristic of malware that needs to access system resources or modify protected files. A legitimate driver export tool may not require this level of access.

**\*\*Stealthy Execution:\*\*** The PowerShell commands are launched with the `@SW\_HIDE` flag, hiding the command window from the user. This prevents the user from seeing what the script is doing, a common technique used by malware to avoid detection.

**\*\*Driver Export:\*\*** Exporting drivers could be used to gather sensitive system information (like drivers used) or to install malicious drivers. Legitimate driver exports usually have better logging and more robust error handling to avoid accidental data corruption or silent failures.

**\*\*Data Exfiltration (Potential):\*\*** The exported drivers could be sent to a remote server, although this script itself doesn't do this explicitly. The structure and functionality, however, lends itself to this modification.

Therefore, this script, while not malicious in its current form, bears strong resemblance to techniques employed by malware, particularly those involved in **\*\*information gathering\*\*** and **\*\*privilege escalation\*\***. Its potential for misuse makes it suspicious. A legitimate system administrator or developer would be unlikely to use this script without significant modifications to improve security, error handling, and provide logging for auditing purposes.