README

This file explains how to use the maclookup script.

You must be root to execute the script. The script requires executable permissions to launch ( chmod a+x).

The script will save output to file named “/tmp/maclookup.json”.

If the script fails, it will log errors to “/tmp/maclookup.log”. If an invalid MAC address is input, the online API will return an error code and the script will exit.

Any questions/support.....email: mario.balletta@gmail.com

The variables explained below are output in JSON file format.

|  |  |
| --- | --- |
| vendorDetails.oui | Organization Unique Identifier |
| vendorDetails.isPrivate | For an extra fee to IEEE, vendors can hide their details. In this case, this flag is set to **'true'** and companyName, companyAddress and countryCode are 'private'. |
| vendorDetails.companyName | Name of the company which registered the MAC addresses block. |
| vendorDetails.companyAddress | Company's full address. |
| vendorDetails.countryCode | Company's country code in [ISO 3166](https://en.wikipedia.org/wiki/ISO_3166-1_alpha-2" \o "ISO 3166-1 alpha-2" \t "/tmp/wps-mario/x/_blank) format. |
| blockDetails.blockFound | **'false'** when the MAC address does not belong to any of the registered MAC blocks. In this case, all other fields are set to 'unknown' |
| blockDetails.borderLeft | The left border of the range the MAC address belongs to. |
| blockDetails.borderRight | The right border of the range the MAC address belongs to. |
| blockDetails.blockSize | The total number of MAC addresses in this range. |
| blockDetails.assignmentBlockSize | Assignment block size, one of the following:   * 'MA-L' for MAC Address Block Large * 'MA-M' for MAC Address Block Medium * 'MA-S' for MAC Address Block Small * 'IAB' for Individual Address Block |
| blockDetails.dateCreated | Date when the range was allocated, in YYYY-MM-DD format. Is available for ranges registered after 27 June, 2018. |
| blockDetails.dateUpdated | Date when the range was last updated, in YYYY-MM-DD format. Is available for ranges registered after 27 June, 2018. |
| macAddressDetails.searchTerm | Echo your search term |
| macAddressDetails.isValid | **'true'** if the search term provided is a valid MAC address. |
| macAddressDetails.virtualMachine | Detect if the MAC address belongs to a Virtual Machine. It’s a string field which could be **'Not detected'** or the name of the virtual machine detected, like **'VMWare'**. |
| macAddressDetails.applications | Detect if a vendor or standard is using the MAC address. It's an array field which may contain a list of applications detected. |
| macAddressDetails.transmissionType | Transmission type, one of the following:   * 'multicast' * 'unicast' * 'broadcast' |
| macAddressDetails.administrationType | Administration type, one of the following:   * 'UAA' for Universally administered addresses * 'LAA' for Locally administered addresses |
| macAddressDetails.wiresharkNotes | Extra details provided by Wireshark. |
| macAddressDetails.comment | The field which contains our research results regarding the MAC address or OUI. |