How to setup a 2nd network interface for an AWS instance to be able to activate RTA-VRTE and ISOLAR-VRTE

The RTA-VRTE StarterKit is available as Amazon Machine Image (AMI) in AWS Marketplace. It contains the ETAS products RTA-VRTE and ISOLAR-VRTE. For those products you need to purchase first a valid license, either a perpetual or a subscription license.

To get a valid license a fixed MAC Address must be shared with ETAS. In order to achieve this a 2nd network interface needs to be bind to your instance.

The following document describes how this can be done.

1. Prerequisites

   - You have necessary privilege to create ENI (Elastic Network Interface) in your AWS account.

2. Necessary steps

   2.1. Create Secondary Network Interface

      - Navigate to AWS Management Console, Choose appropriate Region
      - Search EC2 service using Search bar and Click on "EC2"
      - Click on “Network Interfaces” on the left panel under the parent category “Network & Security”
• Click on "Create network interface" button

• Choose subnet where your EC2 instance is created. Provide description if required; Check Images to know how to find which subnet (EC2→ Instances → Instance → Copy subnet)

The you can pick a public as well a private subnet. We recommend using a private one since the network adapter will only be necessary for the license later.
- Leave other values unchanged and click on "Create network interface"

1. Provide Description
2. Choose subnet where instance is available
3. Choose SG that has required ports open for SK
4. Click Here

- Network Interface got created successfully
2.2. Request/purchase an ETAS RTA-VRTE and ISOLAR-VRTE license

- Click on created new network interface and locate "MAC address" under "IP addresses" tab

- Contact sales.de@etas.com or any other local ETAS sales organization and request an offer for either a perpetual or 12 month subscription license of the product RTA-VRTE and ISOLAR-VRTE.

- After you placed an order for those 2 licenses you will be guided thru the official ETAS license process. The MAC address of your network interface will be needed during this process.
2.3. Attach Secondary Network Interface to Instance

- Locate your RTA-VRTE StarterKit instance, Click “Actions” → “Networking” → “Attach network interface”

- Attach the created network interface to your RTA-VRTE StarterKit instance.
2.4. Update New License file using ETAS License Manager

- Start RTA-VRTE StarterKit instance
- Copy .lic file to RTA-VRTE StarterKit instance using SCP or RDP
- Open ETAS License Manager (located on the desktop)

- Click on File → Add License
• Choose the .lic file provided by ETAS. Click on Open and apply the license

• License should be loaded successfully in ETAS License Manager
3. Trouble Shooting & Know issues steps

3.1. AWS Graviton target in same private subnet not reachable

During our tests we encountered sometimes problems with reaching a in parallel running AWS Graviton instance. Nor “ping” than “ssh” was working. It looks like that somehow the routing from the StarterKit towards the AWS Graviton instance was done via the attached 2nd Network Interface which we created for the license hosting.

To overcome this, we recommend executing the following command within a terminal.

```
ip route add %gravtion target IP address% via %Gateway IP address of your private subnet% dev %primary private network device%
```

Example: `ip route add 10.10.128.42 via 10.10.0.1 dev ens5`