Tasking Compiler License Configuration

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Introduction

The Tasking Compiler License Compliance feature auto-configures license keys, both standard and professional, based on the user's work location (country code).

Existing Implementation

Previously, license configuration required setting the following variables in the profile file:

- `TSK_LICENSE_KEY_SW160800`
- `TSK_LICENSE_SERVER`
- `TSK_NO_ANONYMOUS`

The values for `TSK_LICENSE_KEY_SW160800` and `TSK_LICENSE_SERVER` varied by location. As a result, one needs to have several profiles—one for each place. Additionally, license keys change based on build type (professional licenses are used specifically for HSM builds).

New Implementation

The new automated Tasking Compiler License Compliance feature eliminates the need for multiple profiles by dynamically configuring the license key and license server. The system auto-configures both Standard and Professional keys based on the user's location.

Four ENV variables exported are:

- `TSK_LICENSE_SERVER` : Server
- `TSK_LICENSE_KEY_STD` : Standard key
- `TSK_LICENSE_KEY_PROF` : Professional key
- `TSK_NO_ANONYMOUS` : No Anonymous key allowed

Country-Specific License Server and Keys

Use these keys when passing values to the command line interface. The value you need to pass is based on your location. Check the table below to know what value needs to be passed.

Country Code	License Server	Standard Key	Professional Key
IND	glcpd422.vistcorp.ad.visteon.com:9090	PRODUCT	POOL-prof-xxxx-xxxx
BGR	glcpd424.vistcorp.ad.visteon.com:9090	PRODUCT	POOL-sofi-prof-xxxx
MEX	glcpd423.vistcorp.ad.visteon.com:9090	POOL-MEXI-COxx-xxxx	POOL-mexi-prof-xxxx

Changes to the MANIFEST to fetch Tasking License Configuration File

Define the MANIFEST `tasking.xml` file with the below content and include tasking.xml in Project MANIFEST files.

Example:

```
<include name="my2025/br223/product/tasking.xml"/>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<manifest>
    <!-- Remotes -->
    <remote fetch="https://eu.git.visteon.com" name="eu"/>

    <!-- tasking compiler information -->
    <project name="devops/ci-cd-automation/tasking-license-config" remote="eu" revision="main"/>
</manifest>
```

Profile changes to be made:

1. Tasking Compiler License auto-configuration will be enabaled only when the `"tricore"` package is present in the `[requires]` section of the profile file.

   Example :

```
[requires]
tricore-vx/6.3r1p7@visteon/stable
```

2. In the `[envsetup]` section of your profile file, specify the path where the Tasking license file is present. This is done by setting the `TSK_FILE_PATH` variable.

   Example :

```
[envsetup]
TSK_FILE_PATH = tsk_folder/.tasking_compiler_license_key.json
```

Aliases to be defined in the [commands] section of the profile

```
prof_env=_prof_env() { export TSK_LICENSE_KEY_SW160800=$${TSK_LICENSE_KEY_PROF}; "$$@";}; _prof_env
std_env=_std_env() { export TSK_LICENSE_KEY_SW160800=$${TSK_LICENSE_KEY_STD}; "$$@";}; _std_env
```

Example:

Changes in build commands

The prefix **prof_env** or **std_env** should be added before the build command.

Example of how a professional key is used in an HSM build:

```
hsm = prof_env vbuild "$${BUILD_BASE_LOCATION}"/hsm-build/$${VARIANT:-'cm3'} release
```

Before:

After :

Example of how a standard key is used for a non-HSM build:

```
vp = std_env vbuild "$${BUILD_BASE_LOCATION}"/vp-build/$${VARIANT:-'cm3'} release
```

Before :

After :

Trigger the build commands.

How to Pass Keys Through Command-Line arguments

The value you need to pass is based on your location. Check the table in the "Country-Specific License Server and Keys" section to know what value needs to be passed.

```
dn build --type <build_type> --env TSK_LICENSE_SERVER=<TSK_LICENSE_SERVER> --env
TSK_LICENSE_KEY_PROF=<TSK_LICENSE_KEY_PROF> --env TSK_NO_ANONYMOUS=1 --env TSK_LICENSE_KEY_STD=<TSK_LICENSE_KEY_STD>
```

Example:

CI Builds

To trigger build command

```
dn ci build --type <build_type> --profile <path_to_profile_file>
```

Example:

How to Pass Keys Through Commad-Line arguments.

The value you need to pass is based on your location. Check the table in the "Country-Specific License Server and Keys" section to know what value needs to be passed.

```
dn ci build --type <build_type> --profile <path_to_profile_file> --env TSK_LICENSE_KEY_PROF=<PROF_LICENSE_KEY> --env TSI
```

Example:

Summary

The new Tasking Compiler License Compliance feature streamlines the license configuration process, eliminating the need for multiple profiles and allowing for dynamic configuration of license keys based on location. This enhances efficiency and ensures compliance with licensing requirements for both standard and professional builds.

❗ **Note:** The priority for configuring the license keys is as follows:

Command line arguments > Autoconfiguration > The profile file > Environment variables.

the ">" symbol to indicate the priority order for configuring license keys.

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