module 'lib' has no attribute 'openssl_add_all_algorithms'
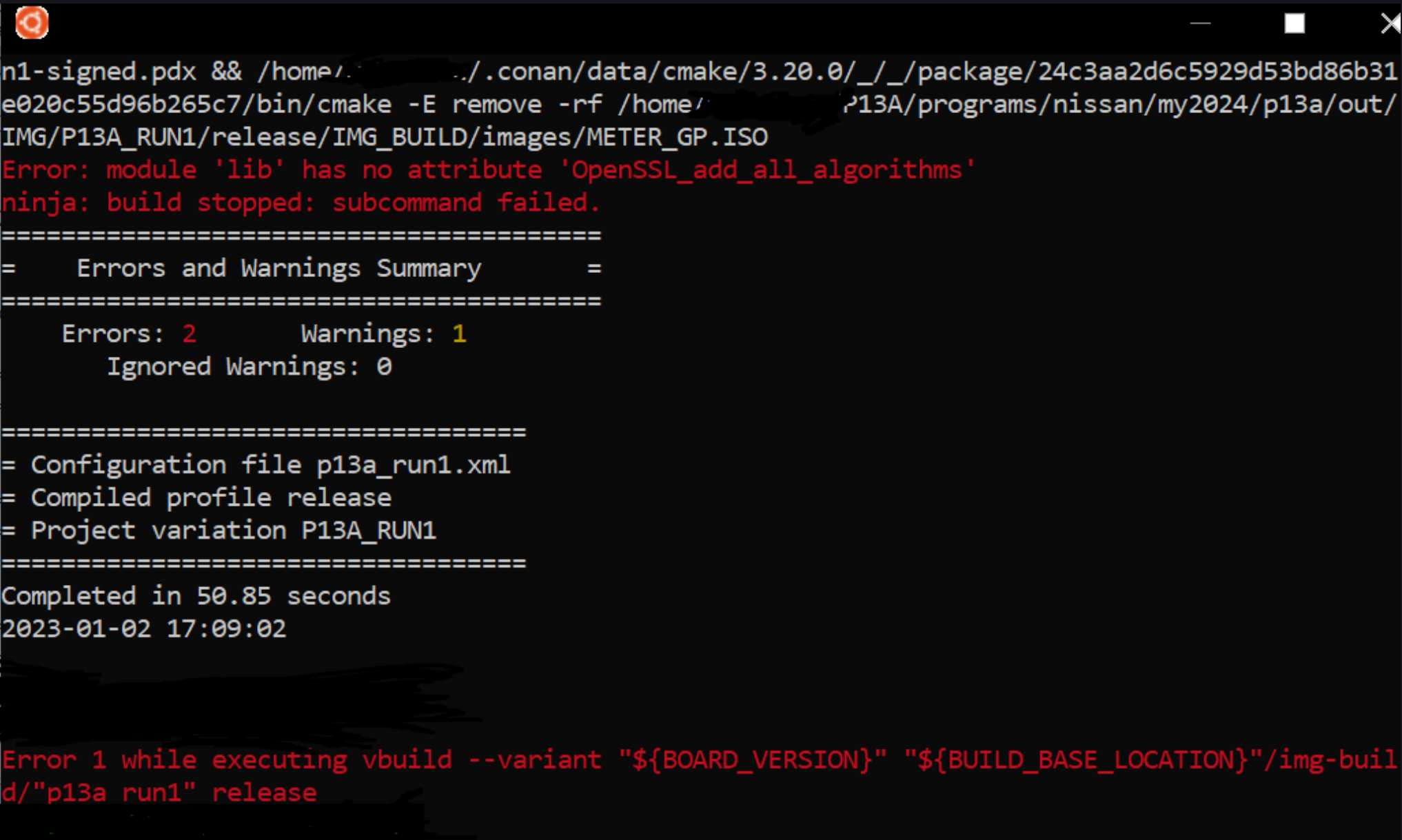
Last edited by **VREDDY10** 2 years ago

Issue Description :-

- pyopenssl required cryptography which exposes cryptographic recipes and primitives to python developers

- pyopenssl (v23.0.0) :

  - Cryptography maximum version has been increased to 39.0.x

- cryptography (v39.0.0) :-

  - Backward incompatible for cryptography v38.0.x

- cryptography `39.0.0` is incompatible with pyopenssl `22.0.0`

Error Message/screenshot:-

```
Error: module 'lib' has no attribute 'OpenSSL_add_all_algorithms'
```


If your INI file has below content

```
[pip]
pyopenssl==22.0.0
;rest of the packages
```

What is PyOpenSSL?

- pyOpenSSL is a rather thin wrapper around (a subset of) the OpenSSL library. With thin wrapper we mean that a lot of the object methods do nothing more than calling a corresponding function in the OpenSSL library.
- pyOpenSSL is collaboratively developed by the Python Cryptography Authority (PyCA) that also maintains the low-level bindings called cryptography.

What is cryptography?

- `cryptography` is a package which provides cryptographic recipes and primitives to Python developers. Our goal is for it to be your "cryptographic standard library". It supports Python 3.6+ and PyPy3 7.2+.

FAQs at https://r2a.visteon.com/tag/pip/

Solution: -

- Upgrading pyopenssl or downgrading cryptography
- PyOpenSSL and the cryptography versions listed below have been tested in combination.

s.no	pyopenssl	cryptography	COMPATIBLE/IN-COMPATIBLE
1.	22.0.0	39.0.0	✖
2.	22.0.0	38.0.4	✔
3.	23.0.0	39.0.0	✔
4.	23.0.0	38.0.4	✔

❗ **Note:** As per our initial assumption cryptography `39.0.0` breaks with pyopenssl `22.0.0`, The new workspace created on or after Jan 2'nd 2023 and the profile(INI) file without any hardcoded version of cryptography and `pyopenssl==22.0.0` will confront.

Sample solution snippets:-

`Solution 1`

```
[pip]
pyopenssl==23.0.0
cryptography==39.0.0
;rest of the packages
```

`Solution 2`

```
 [pip]
pyopenssl==22.0.0
cryptography==38.0.4
;rest of the packages
```

- You can use the in-app command `devNext --help` or `devNext <command> --help` for more options/help.
- **Support:** If you've any Queries w.r.t above mentioned steps, please reach out to 📧 devNext.support@visteon.com