Configuration management for vendor workloads

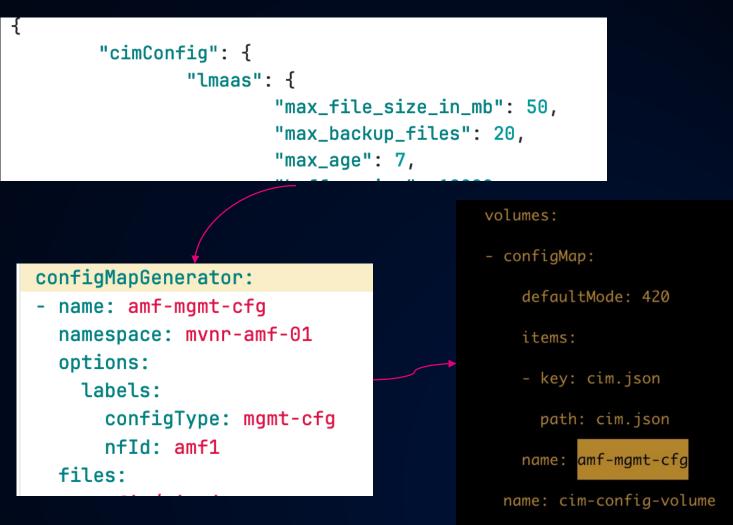# Current approaches for applying Day1..N configuration

```json
{
    "cimConfig": {
        "lmaas": {
            "max_file_size_in_mb": 50,
            "max_backup_files": 20,
            "max_age": 7,
```

"K8s-native"

- **Uses ConfigMaps**
- **Holding JSON/XML/.. Data**
  - Supported by the vendor
  - Can be synced from Git

```yaml
configMapGenerator:
- name: amf-mgmt-cfg
  namespace: mvnr-amf-01
  options:
    labels:
      configType: mgmt-cfg
      nfId: amf1
  files:
```

```yaml
volumes:
- configMap:
    defaultMode: 420
    items:
    - key: cim.json
      path: cim.json
    name: amf-mgmt-cfg
  name: cim-config-volume
```

Current approaches for applying Day1..N configuration

"Non k8s-native"

- **Not using a k8s object**

- **XML files**

  - To be applied by a config management tool (1*), or the user (2*)

  - Automation to be provided by the user

- (1*)

🏠 > Configuration ▾ > Online Config ▾

Online Config

- (2*)

```xml
<config xmlns="http://tail-f.com/ns/config/1.0">
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>cre:ipfw_media</name>
      <type xmlns:pcift="urn:rdns:com:ericsson:oammodel:ericsson-if-typ
      <enabled>true</enabled>
      <encapsulation xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces
        <dot1q-vlan xmlns="urn:ietf:params:xml:ns:yang:ietf-if-l3-vlan"
```

```yaml
apiVersion: batch/v1
kind: CronJob
metadata:
  name: apply-day1-job
```

Each approach has problems

"K8s-native"

- **Rolling upgrades**
- **Size constraint of k8s ConfigMaps**
  - Vendor/App involvement in case this size is exceeded
- **Validation** of the configuration

"Non k8s-native"

- **Creating&maintaining the automation**
- **Vendor-specific**
  - N vendors => N ways
- **Validation** of the configuration
- **Is the app really k8s-native?**

Thank you