



**ONAP**

OPEN NETWORK AUTOMATION PLATFORM

# Extending instance params

April 6th , 2022

# Macro Payload - Instance Params

```
"requestDetails": {  
  "requestParameters": {  
    "userParams": [  
      {  
        "service": {  
          "instanceParams": [ { "svc-param": "my-value" } ],  
          "vnfs": [  
            {  
              "instanceParams": [ { "vnf-param": "my-value" } ],  
              "vfModules": [  
                {  
                  "instanceParams": [ { "vmf-param": "my-value" } ]  
                }  
              ]  
            }  
          ],  
          "pnfs": [  
            {  
              "instanceParams": [ { "pnf-param": "my-value" } ]  
            }  
          ],  
          "networks": [  
            {  
              "instanceParams": [ { "network-param": "my-value" } ]  
            }  
          ]  
        }  
      ]  
    }  
  }  
}
```

- 3 levels of instanceParams
- supports only String values

## Main use-cases:

- Passing params to SDNC
- Passing params to CDS
- ?

# Support complex data structures

```
"requestDetails": {
  "requestParameters": {
    "userParams": [
      {
        "service": {
          "instanceParams": [
            {
              "svc-param": "my-value",
              "complex-param": {
                "listOfNumbers": [1,2,3],
                "listOfObjects": [{"a": 1, "b": 3}],
                "anotherObject": {
                  "prop": true
                }
              }
            }
          ]
        }
      }
    ]
  }
}
```

- Makes it easier to pass data to CDS
- Enable future use cases that require dynamic input.
- Avoid workarounds (base64 encoding)

# Required changes

- Must be a backward compatible
- Gradual implementation, service scope first
- Change type from String to Object

```
+++ b/common/src/main/java/org/onap/so/serviceinstancebeans/Service.java
@@ -42,7 +42,7 @@ public class Service implements Serializable {
    @JsonProperty("instanceName")
    protected String instanceName;
    @JsonProperty("instanceParams")
-   private List<Map<String, String>> instanceParams = new ArrayList<>();
+   private List<Map<String, Object>> instanceParams = new ArrayList<>();
    @JsonProperty("resources")
```

# Required changes - SDNC

- instanceParams for VNF and VF-MODULE are sent to SDNC
- Model supports only String values

```
@XmlAccessorType(XmlAccessType.FIELD)
public class GenericResourceApiParamParam implements Serializable {
    private static final long serialVersionUID = 1L;
    @JsonProperty("name")
    @JacksonXmlProperty(
        localName = "name"
    )
    private String name = null;
    @JsonProperty("resource-resolution-data")
    @JacksonXmlProperty(
        localName = "resource-resolution-data"
    )
    private GenericResourceApiParamParamResourceResolutionData resourceResolutionData = null;
    @JsonProperty("value")
    @JacksonXmlProperty(
        localName = "value"
    )
    private String value = null;

    public GenericResourceApiParamParam() {
    }

    public GenericResourceApiParamParam name(String name) {
        this.name = name;
        return this;
    }
}
```