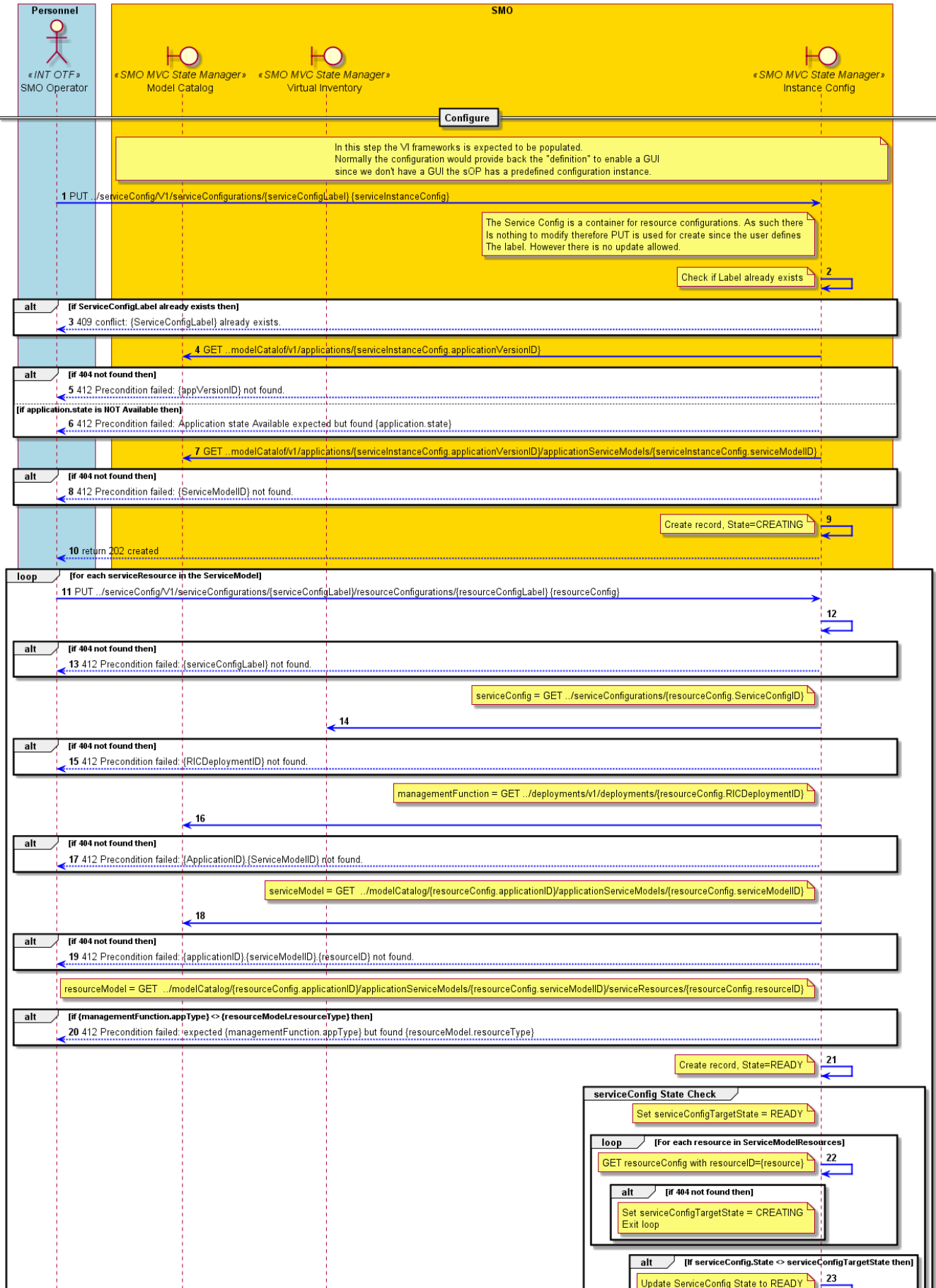


Cherry Application LCM Step 4 - Create Config

Sequence Diagram

Application LCM Step 4 - Create Instance Config





@startuml

Title Application LCM Step 4 - Create Instance Config

skinparam sequenceArrowThickness 2

skinparam ParticipantPadding 5

skinparam BoxPadding 10

skinparam ArrowColor #blue

autonumber

Box Personnel #lightblue

Actor sOP as "SMO Operator" <<INT OTF>>

End box

Box "SMO" #gold

Boundary MC as "Model Catalog" <<SMO MVC State Manager>>

Boundary VI as "Virtual Inventory" <<SMO MVC State Manager>>

Boundary IC as "Instance Config" <<SMO MVC State Manager>>

end box

== Configure ==

Note over MC,IC

In this step the VI frameworks is expected to be populated.

Normally the configuration would provide back the "definition" to enable a GUI
since we don't have a GUI the sOP has a predefined configuration instance.

end note

sOP -> IC : PUT ../serviceConfig/V1/serviceConfigurations/{serviceConfigLabel} {serviceInstanceConfig}

note left of IC

The Service Config is a container for resource configurations. As such there
Is nothing to modify therefore PUT is used for create since the user defines
The label. However there is no update allowed.

End note

IC -> IC :

Note Left : Check if Label already exists

Alt if ServiceConfigLabel already exists then

IC --> sOP : 409 conflict: {ServiceConfigLabel} already exists.

End

IC -> MC : GET ../modelCatalog/v1/applications/{serviceInstanceConfig.applicationVersionID}

Alt if 404 not found then

IC --> sOP : 412 Precondition failed: {appVersionID} not found.

Else if application.state is NOT Available then

IC --> sOP : 412 Precondition failed: Application state Available expected but found {application.state}

end

IC -> MC : GET ../modelCatalog/v1/applications/{serviceInstanceConfig.applicationVersionID}/applicationServiceModels/{serviceInstanceConfig.serviceModelID}

Alt if 404 not found then

IC --> sOP : 412 Precondition failed: {ServiceModelID} not found.

end

IC -> IC :

Note left: Create record, State=CREATING

IC --> sOP : return 202 created

Loop for each serviceResource in the ServiceModel

sOP -> IC : PUT ../serviceConfig/V1/serviceConfigurations/{serviceConfigLabel}/resourceConfigurations/{resourceConfigLabel} {resourceConfig}

```

IC -> IC :
Alt if 404 not found then
    IC --> sOP : 412 Precondition failed: {serviceConfigLabel} not found.
end
Note left of IC
    serviceConfig = GET ../serviceConfigurations/{resourceConfig.ServiceConfigID}
end note

IC -> VI :
Alt if 404 not found then
    IC --> sOP : 412 Precondition failed: {RICDeploymentID} not found.
end
Note left of IC
    managementFunction = GET ../deployments/v1/deployments/{resourceConfig.RICDeploymentID}
end note

IC -> MC :
Alt if 404 not found then
    IC --> sOP : 412 Precondition failed: {ApplicationID}.{ServiceModelID} not found.
end
Note left of IC
    serviceModel = GET ../modelCatalog/{resourceConfig.applicationID}/applicationServiceModels/{resourceConfig.serviceModelID}
end note

IC -> MC :
Alt if 404 not found then
    IC --> sOP : 412 Precondition failed: {applicationID}.{serviceModelID}.{resourceID} not found.
end
Note left of IC
    resourceModel = GET ../modelCatalog/{resourceConfig.applicationID}/applicationServiceModels/{resourceConfig.serviceModelID}/serviceResources/
    {resourceConfig.resourceID}
end note

alt if {managementFunction.appType} <> {resourceModel.resourceType} then
    IC --> sOP : 412 Precondition failed: expected {managementFunction.appType} but found {resourceModel.resourceType}
end if

IC -> IC :
Note left: Create record, State=READY

group serviceConfig State Check
    Note left of IC : Set serviceConfigTargetState = READY
    Loop For each resource in ServiceModelResources
        IC -> IC
        Note left: GET resourceConfig with resourceID={resource}
        Alt if 404 not found then
            Note left of IC
                Set serviceConfigTargetState = CREATING
            Exit loop
        End note
    End if
End

Alt If serviceConfig.State <> serviceConfigTargetState then
    IC -> IC :
    Note left: Update ServiceConfig State to READY
End if
End

IC --> sOP : return 202 created

End

@enduml

```