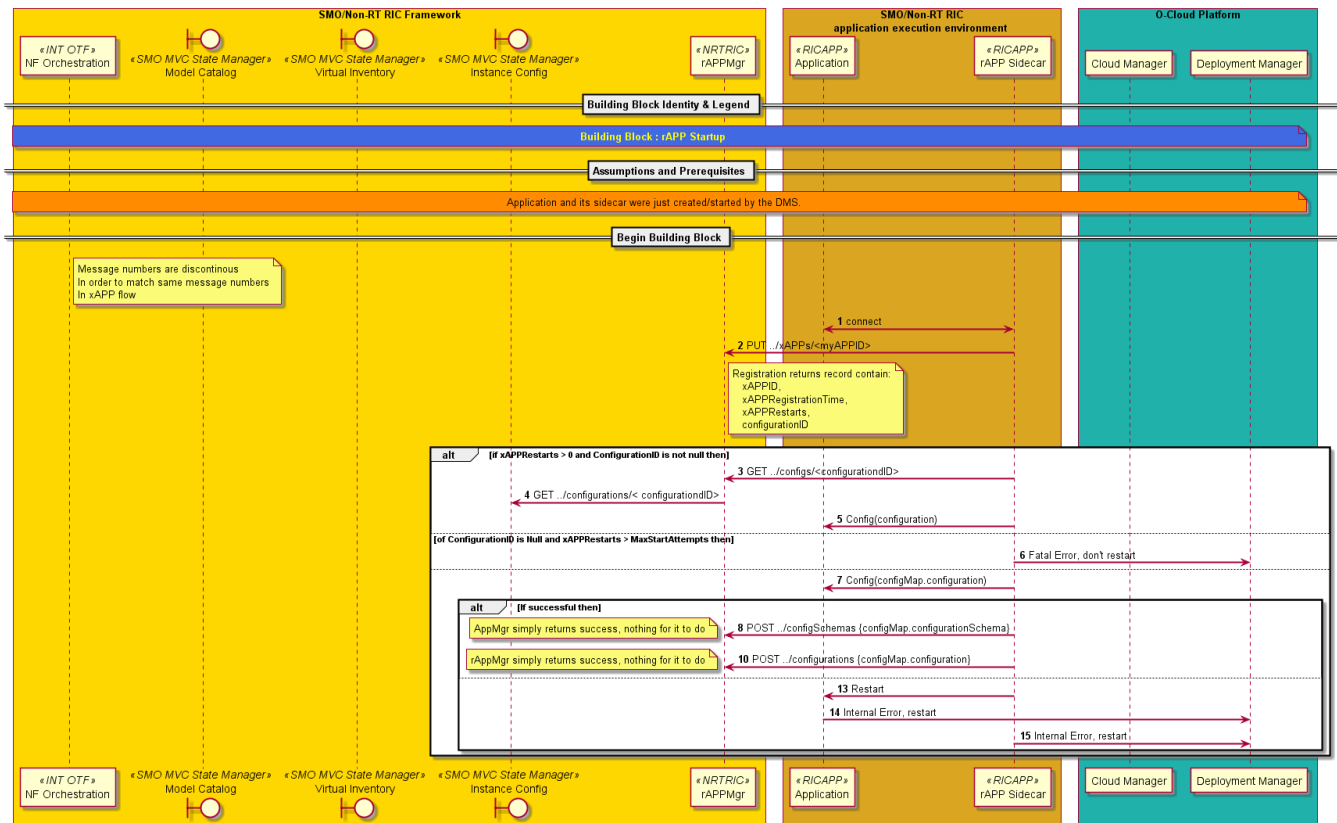


Cherry rAPP Startup

Sequence Diagram



```
@startuml
Autonumber
Skinparam sequenceArrowThickness 2
skinparam ParticipantPadding 5
skinparam BoxPadding 10
```

```
Box "SMO/Non-RT RIC Framework" #gold
    participant NFO as "NF Orchestration" <<INT OTF>>
    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>>
    Participant AppMgr as "rAPPMgr" <<NRTRIC>>
end box
```

```
Box "SMO/Non-RT RIC\application execution environment " #goldenrod
    participant App as "Application" <<RICAPP>>
    participant Sidecar as "rAPP Sidecar" <<RICAPP>>
end box
```

```
Box "O-Cloud Platform" #lightseagreen
    participant IMS as "Cloud Manager"
    participant DMS as "Deployment Manager"
End box
```

== Building Block Identity & Legend ==

```
note over NFO, DMS #royalblue
**<color: yellow>Building Block : rAPP Startup </color>**
end note
```

== Assumptions and Prerequisites ==

```
note over NFO, DMS #darkorange
Application and its sidecar were just created/started by the DMS.
end note
```

== Begin Building Block ==

```
Note Right of NFO
Message numbers are discontinous
In order to match same message numbers
In xAPP startup
End note
```

```
Sidecar <-> App : connect
Sidecar -> AppMgr : PUT ../xAPPs/<myAPPID>
Note right of AppMgr
Registration returns record contain:
    xAPPID,
    xAPPRegistrationTime,
    xAPPRestarts,
    configurationID
end note
```

```
alt if xAPPRestarts > 0 and ConfigurationID is not null then
    Sidecar -> AppMgr : GET ../configs/<configurationID>
    AppMgr -> IC : GET ../configurations/< configurationID>
    Sidecar -> App : Config(configuration)
Else of ConfigurationID is Null and xAPPRestarts > MaxStartAttempts then
    Sidecar -> DMS : Fatal Error, don't restart
Else
    Sidecar -> App : Config(configMap.configuration)
    Alt If successful then
        Sidecar -> AppMgr : POST ../configSchemas {configMap.configurationSchema}
        Note left : AppMgr simply returns success, nothing for it to do
```

```
Autonumber 10
    Sidecar -> AppMgr : POST ../configurations {configMap.configuration}
    Note left : rAppMgr simply returns success, nothing for it to do
    Else
Autonumber 13
        Sidecar -> App : Restart
        App -> DMS : Internal Error, restart
        Sidecar -> DMS : Internal Error, restart
    End if
End if
```

```
@enduml
```