

# Nephio O-RAN Integration Status

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# User Stories Status

1. [NF Orchestration using SMO \(O-RAN Network Function Instantiation Using SMO\)](#)
  - a. References the use case 3.2.1 from O-RAN.WG6.O2DMS-INTERFACE-K8S-PROFILE-R003-v04.00.
  - b. Design document [NF Orchestration Using SMO \(Design details\)](#)
  - c. Development of NFO
    - i. Development of NFO service logic adapted to deployment of OSC K8S profile (NFs packaged as Helm Charts)  
NOTE: No Nephio enablers will be used at this step (ongoing)
    - ii. Adapting the NFO service logic to deploy RAN NFs via Nephio Enablers (Nephio O-RAN CR) (ongoing)
    - iii. NFO source code will be hosted in OSC Gerrit
  - d. Development and re-use of DMS, OSC Components (SMO, INF(IMS & DMS), OAM, RIC, Integration)
  - e. Re-use of helm-charts of OAI (DU, CU-C/U) - OSC
  - f. Re-Use of the Nephio RAN K8s Operator and KPT Packages
2. [User Story - Deploy xApp without SMO](#)
  - a. Create a K8s controller using Nephio SDK for xApp
  - b. Create a kpt package with CRs to deploy the xApp K8s custom controller
  - c. Create a NF deployment CR and configCR for xApp. Use the kpt package approach used in Nephio R2.
3. [User Story - Deploy Near-RT RIC without SMO](#)
  - a. Create a K8s controller using Nephio SDK for OSC Near RT-RIC (ongoing)
  - b. Create a kpt package with CRs to deploy the Near-RT RIC K8s custom controller
  - c. Create a NF deployment CR and configCR for Near-RT RIC. Use the kpt package approach used in Nephio R2.
4. [User Story - Create O-Cloud K8s Cluster](#): In discussion phase still not finalized for the release
5. [User Story - O-Cloud Registration](#): Still in design phase
6. [User Story - Delete O-Cloud K8s Cluster](#): Still in design phase

# Meeting (If anyone wants to Join)

1. Weekly every Wednesday 5 PM CET/10 AM Central Time/9:30 PM IST
2. [Zoom Link](#)
3. [Track sheet](#)