

# ICN R4 Timeline

## Goals

- EMCO V2
- SD-EWAN Controller
- SFC in OVN4NFV
- ICN Readiness
- ICN Maturity

## JIRA TRACKER

|                                                              | Release /Tag                                                                                        | Features                    | Plan/Status Tracking (Please update your JIRAs and note any issues/road blocks with date stamp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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--------------------------------------------------------|-----------|-----------|--|--|--------------------------------------------------------------------------------|-----------|-----------|--|--|-------------------------------------------------------------------------------|-----------|-----------|--|--|-------------------------------------------------------------------------------------------|-----------|-----------|--|--|-----------------------------------------------------------------------------------|-----------|-----------|--|--|-----------------------------------------------------------------------------------------------------|-----------|-----------|--|--|--------------------------------------------------------------------------------------|-----------|-----------|--|--|-----------------------------------------------------------------------------------|-----------|-----------|--|--|--------------------------------------------------------------------------------------------|-----------|-----------|--|
|                                                              |                                                                                                     | <div>• EMCO DCM</div>       | <div>Igor Duarte Cardoso</div> <div>DCM v1 (see in ONAP)</div> <table><tr><th>Epic</th><th>JIRA Story</th><th>Sprint/Estimated Completion</th><th>Status/Actual Completion</th><th>Notes</th></tr><tr><td><div><div>ICN-314 - DCM dev works</div><div>DONE</div></div></td><td><div><div>ICN-376 - DCM re-ramp on Itohan's docs</div><div>DONE</div></div></td><td>Sprint 21</td><td>Sprint 21</td><td></td></tr><tr><td></td><td><div><div>ICN-386 - Install Istio for replicated control planes</div><div>DONE</div></div></td><td>Sprint 21</td><td>Sprint 21</td><td></td></tr><tr><td></td><td><div><div>ICN-387 - Run apply.go and API testing scripts</div><div>DONE</div></div></td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td><div><div>ICN-384 - Evaluate apply.go implementation</div><div>DONE</div></div></td><td>Sprint 22</td><td>Sprint 22</td><td></td></tr><tr><td></td><td><div><div>ICN-408 - 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| Epic                                                         | JIRA Story                                                                                          | Sprint/Estimated Completion | Status/Actual Completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                                                              | <div><div>ICN-386 - Install Istio for replicated control planes</div><div>DONE</div></div>          | Sprint 21                   | Sprint 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-384 - Evaluate apply.go implementation</div><div>DONE</div></div>                     | Sprint 22                   | Sprint 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-408 - Deploy full EMCO outside of k8s</div><div>DONE</div></div>                      | Sprint 22                   | Sprint 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-389 - Evaluate "Kubeconfig API (WORK IN PROGRESS)"</div><div>DONE</div></div>         | Sprint 22                   | Sprint 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-417 - Reimplement quota field parsing</div><div>DONE</div></div>                      | Sprint 23                   | Sprint 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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     |           |  |
|                                                              | <div><div>ICN-419 - Store user key in MongoDB</div><div>DONE</div></div>                            | Sprint 23                   | Sprint 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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     |           |  |
|                                                              | <div><div>ICN-421 - Create User to access logical cloud</div><div>DONE</div></div>                  | Sprint 23                   | Sprint 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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     |           |  |
|                                                              | <div><div>ICN-423 - Create OpenAPI spec for DCM API</div><div>DONE</div></div>                      | Sprint 23                   | Sprint 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-425 - Implement missing HTTP returns</div><div>DONE</div></div>                       | Sprint 23                   | Sprint 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-422 - Initial work on rsync certificate approval</div><div>DONE</div></div>           | Sprint 23                   | Sprint 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-411 - Implement dcm certificate approval</div><div>DONE</div></div>                   | Sprint 23                   | Sprint 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-428 - Ramp on appcontext state, status and resource status</div><div>DONE</div></div> | Sprint 24                   | Sprint 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-429 - Obtain signed cert from cluster/rsync</div><div>DONE</div></div>                | Sprint 24                   | Sprint 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-430 - Update kubeconfig with signed cert</div><div>DONE</div></div>                   | Sprint 24                   | Sprint 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                              | <div><div>ICN-431 - Update appcontext with new action 'approve'</div><div>DONE</div></div>          | Sprint 24                   | Sprint 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|  |  <b>IGN-432</b> - Switch from /resource to /subresources <span>DONE</span>         | Sprint 25  | Sprint 25           |             |
|  |  <b>IGN-440</b> - Add subresource-level order/dependency logic <span>DONE</span>   | Sprint 25  | Sprint 25           |             |
|  |  <b>IGN-441</b> - Implement CSR monitor controller <span>DONE</span>               | Sprint 25  | Sprint 25           |             |
|  |  <b>IGN-442</b> - Improve wiki doc regarding DCM <span>DONE</span>                 | Sprint 25  | Sprint 25           |             |
|  |  <b>IGN-461</b> - Fix breaking CI issue <span>DONE</span>                          | Sprint 26  | Sprint 26           |             |
|  |  <b>IGN-462</b> - Fix terminate issue on rsync <span>DONE</span>                   | Sprint 26  | Sprint 26           |             |
|  |  <b>IGN-463</b> - Split patches and refactor/fix <span>DONE</span>                 | Sprint 26  | Sprint 27           |             |
|  |  <b>IGN-464</b> - Test DCM end-to-end <span>DONE</span>                            | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-465</b> - Associate logical clouds to projects <span>DONE</span>           | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-466</b> - Reimplement Terminate operation as async <span>DONE</span>       | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-467</b> - Improve DCM OpenAPI with missing schema fields <span>DONE</span> | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-468</b> - Resource quota validation <span>DONE</span>                      | Sprint 27  | Now tracked in EMCO |             |
|  |  <b>IGN-469</b> - Improve logging <span>DONE</span>                                | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-470</b> - Refactor calls to DeleteCompositeApp <span>DONE</span>           | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-471</b> - Final refactoring <span>DONE</span>                            | Sprint 27  | Now tracked in EMCO |             |
|  |  <b>IGN-472</b> - Update deployment file to include DCM <span>DONE</span>        | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-473</b> - Update helm chart to include DCM <span>DONE</span>             | Sprint 27  | Sprint 27           |             |
|  |  <b>IGN-489</b> - Integrate EMCO DCM in ICN <span>TO DO</span>                   | Sprint 30+ |                     | not started |



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| <b>ICN-61</b> - ICN CI / CD works <span>TO DO</span>                           | <b>ICN-178</b> - ICN SDL works <span>DONE</span>                                               | Sprint 9           | Sprint 9     |  |
| <b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span> | <b>ICN-199</b> - Metal3 Refactoring & ICN R2 bug Fixes - OS and user data <span>DONE</span>    | Sprint 9           | Sprint 11    |  |
| <b>ICN-314</b> - DCM dev works <span>DONE</span>                               | <b>ICN-192</b> - DCM lighting talk - API & Design development <span>DONE</span>                | Sprint 9           | Sprint 9     |  |
| <b>ICN-191</b> - Integration OpenNESS with ICN <span>TO DO</span>              | <b>ICN-194</b> - Openness & SDWAN Lighting talks - API & design prep <span>DONE</span>         | Sprint 9           | Sprint 9     |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-238</b> - Ramp up on OVN4NFV and running the patches <span>DONE</span>                  | Sprint 11          | Sprint 11    |  |
| <b>ICN-238</b> - Ramp up on OVN4NFV and running the patches <span>DONE</span>  | <b>ICN-267</b> - ICN script updates <span>DONE</span>                                          | Sprint 11          | Sprint 11    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-260</b> - OVN containerization <span>DONE</span>                                        | Sprint 12          | Sprint 12    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-269</b> - Adding OVN4K8s in Kubespray <span>DONE</span>                                 | Sprint 14/15/16/17 | Sprint 17    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-264</b> - Making OVN4NFV as the primary network <span>DONE</span>                       | Sprint 12/13       | Sprint 13    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-269</b> - Refactoring OVN coding for OVN containerization daemonset <span>DONE</span>   | Sprint 13/14       | Sprint 13/14 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-311</b> - Introducing Provider Network Direct type <span>DONE</span>                    | Sprint 14          | Sprint 14    |  |
| <b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span> | <b>ICN-321</b> - Bug fixes & Testing for ICN Baremetal Operator version <span>DONE</span>      | Sprint 14          | Sprint 14    |  |
| <b>ICN-1</b> - Metal3 Baremetal Operator in ICN Stack <span>IN PROGRESS</span> | <b>ICN-319</b> - Fix the ICN baremetal operator version <span>DONE</span>                      | Sprint 14          | Sprint 14    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-322</b> - Bug fixes for the OVN4NFV-K8s plugin primary routing issues <span>DONE</span> | Sprint 15          | Sprint 15    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-316</b> - Akraino ICN installation issue on baremetal server #ICN <span>DONE</span>     | Sprint 15          | Sprint 15    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-330</b> - CNI Server development in ONAP4K8s <span>DONE</span>                          | Sprint 16          | Sprint 16    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-331</b> - CNI shim development in ONAP4K8s <span>DONE</span>                            | Sprint 16          | Sprint 16    |  |
| <b>ICN-189</b> - ICN CI/CD <span>TO DO</span>                                  | <b>ICN-361</b> - ICN BM and VM installer script improvement <span>DONE</span>                  | Sprint 17          | Sprint 17    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-342</b> - Post review patches for OVN4NFV <span>DONE</span>                             | Sprint 20/21       | Sprint 21    |  |
| <b>ICN-189</b> - ICN CI/CD <span>TO DO</span>                                  | <b>ICN-340</b> - Documentation and patch review for ICN Release <span>DONE</span>              | Sprint 18/19/20    | Sprint 21    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-368</b> - Post review for Kubespray <span>DONE</span>                                   | Sprint 20/21       | Sprint 21    |  |
| <b>ICN-189</b> - ICN CI/CD <span>TO DO</span>                                  | <b>ICN-360</b> - Code review and CI/CD Testing <span>DONE</span>                               | Sprint 18/19       | Sprint 19    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-409</b> - Unit testing in OVN4NFV CNI <span>DONE</span>                                 | Sprint 24/25/26    | Sprint 26    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-406</b> - OVN4NFV Kubespray with Centos 7 <span>DONE</span>                             | Sprint 24/25/26    | Sprint 26    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-404</b> - OVN4NFV Service Function Chaining development <span>DONE</span>               | Sprint 22          | sprint 22    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-405</b> - EMCO and SFC demo preparation <span>DONE</span>                               | Sprint 22          | sprint 22    |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <span>IN PROGRESS</span>          | <b>ICN-415</b> - Dev. rebased OVN4NFV SFC development with Kubespray <span>DONE</span>         | Sprint 23          | Sprint 23    |  |

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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|-----------|--|
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-446</b> - Test rebased OVN4NFV SFC Development with Kubespray <small>DONE</small>              | Sprint 23       | Sprint 23 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-436</b> - SFC Demo <small>DONE</small>                                                         | Sprint 24       | Sprint 24 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-434</b> - ICN SDL works <small>DONE</small>                                                    | Sprint 29/30    | Sprint 30 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-436</b> - SRIOV and SFC chaining CR proposal <small>DONE</small>                               | Sprint 24/25    | Sprint 25 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-462</b> - Ramp up on OVN with VLAN and OVN Load balancer <small>DONE</small>                   | Sprint 28/29    | Sprint 29 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-450</b> - Creating OVN ACL based Network policy PoC <small>DONE</small>                        | Sprint 28/29/30 | Sprint 30 |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-460</b> - Network Policy Controller initial PoC work <small>DONE</small>                       | Sprint 28/29/30 | Sprint 30 |  |
| <b>ICN-189</b> - ICN CI/CD <small>TO DO</small>                         | <b>ICN-502</b> - ICN Documentation and release works <small>DONE</small>                              | Sprint 30/31    |           |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-505</b> - Network Policy Port Group creating using OVS ACN ACL <small>IN PROGRESS</small>      | Sprint 31       |           |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-506</b> - Construct Egress /Ingress OVN ACL based on the NP Matches <small>IN PROGRESS</small> | Sprint 31       |           |  |
| <b>ICN-236</b> - OVN4K8SNFV development work <small>IN PROGRESS</small> | <b>ICN-507</b> - Network Policy Namespace selector and Pod Selector <small>DONE</small>               | Sprint 31       |           |  |

Cheng Li

- SD-EWAN CRD definition
- MWAN3 CRD definition
- SD-EWAN operator
  - Framework
  - Create SD-EWAN CNF based on SD-EWAN CRD

| Epic                                                                                                                                               | JIRA Story                                                                              | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes            |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|-------------------------------|------------------|
| <b>ICN-190</b> - E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN interfaces <small>TO DO</small> | <b>ICN-200</b> - SDEWAN CRD definition <small>DONE</small>                              | Sprint 9                         | Sprint 9                      |                  |
|                                                                                                                                                    | <b>ICN-210</b> - MWAN3 rule CRD definition <small>DONE</small>                          | Sprint 9                         | Sprint 9                      |                  |
|                                                                                                                                                    | <b>ICN-206</b> - SDEWAN Operator Framework <small>DONE</small>                          | Sprint 10/11/12                  | Sprint 12                     |                  |
|                                                                                                                                                    | <b>ICN-260</b> - Firewall CRD definition <small>DONE</small>                            | Sprint 12                        | Sprint 12                     |                  |
|                                                                                                                                                    | <b>ICN-312</b> - Sdewan CRD re-design <small>DONE</small>                               | Sprint 13                        | Sprint14                      |                  |
|                                                                                                                                                    | <b>ICN-329</b> - Sdewan controller framework <small>DONE</small>                        | Sprint14/15                      | Sprint 17                     |                  |
|                                                                                                                                                    | <b>ICN-330</b> - Extract similar logical of CRD controllers <small>DONE</small>         | Sprint 17                        | Sprint 17                     | Postpone to R3.1 |
|                                                                                                                                                    | <b>ICN-360</b> - implement label based permission system, phase one <small>DONE</small> | Sprint 18                        | Sprint 18                     | Postpone to R3.1 |
|                                                                                                                                                    | <b>ICN-360</b> - implement label based permission system, phase two <small>DONE</small> | Sprint 19                        | Sprint 19                     | Postpone to R3.1 |
|                                                                                                                                                    | <b>ICN-270</b> - Sdewan firewall controller implementation <small>DONE</small>          | Sprint 13                        | Sprint 19                     | Postpone to R3.1 |
|                                                                                                                                                    | <b>ICN-280</b> - Add Sdewan firewall CRD <small>DONE</small>                            | Sprint 13                        | Sprint 19                     | Postpone to R3.1 |
|                                                                                                                                                    | <b>ICN-201</b> - EWAN Firewall CRD /Rest API integration <small>DONE</small>            | Sprint 13                        |                               | Postpone to R3.1 |
|                                                                                                                                                    | <b>ICN-313</b> - PoC for integration scenario <small>DONE</small>                       | Sprint15                         | Sprint15                      |                  |
|                                                                                                                                                    | <b>ICN-314</b> - SDEWAN E2E test scenario integration <small>DONE</small>               | Sprint16                         | Sprint17                      |                  |

Le Yao

◦ Todo

| Epic                                                                                                                                             | JIRA Story                                                                                                                                                                                 | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------|
|  <b>ICN-217</b> - KuD R3 Release works <span>IN PROGRESS</span> |  <b>ICN-260</b> - KUD Multi Vagrant 18.04 issue <span>DONE</span>                                         | Sprint 11/12/14/15               | Sprint 15                     |       |
|                                                                                                                                                  |  <b>ICN-281</b> - Vagrant vm can not get correct name server in ubuntu-1804. <span>DONE</span>            | Sprint 11                        | Sprint 11                     |       |
|                                                                                                                                                  |  <b>ICN-295</b> - Installer vm cannot install nfs because of nameserver issues. <span>DONE</span>         | Sprint 12/14/15                  | Sprint 15                     |       |
|                                                                                                                                                  |  <b>ICN-286</b> - All other VMs are unreachable for Installer VM <span>DONE</span>                        | Sprint 12                        | Sprint 12                     |       |
|                                                                                                                                                  |  <b>ICN-303</b> - Compute01 no spcae left in KUD Multi Vagrant <span>DONE</span>                          | Sprint 12                        | Sprint 12                     |       |
|                                                                                                                                                  |  <b>ICN-316</b> - Vagrant Box Build with base Ubuntu-18.04 for ICN <span>DONE</span>                      | Sprint 13                        | Sprint 13                     |       |
|                                                                                                                                                  |  <b>ICN-308</b> - Upgrade the Kubespray 2.12 for KUD <span>DONE</span>                                    | Sprint 16/17/18/19               | Sprint 19                     |       |
|                                                                                                                                                  |  <b>ICN-327</b> - criproxy failed to start up after node reboot <span>DONE</span>                         | Sprint 16/17                     | Sprint 17                     |       |
|                                                                                                                                                  |  <b>ICN-326</b> - Vagrant Virtlet testing not working in proxy testings <span>DONE</span>                 | Sprint 16                        | Sprint 16                     |       |
|                                                                                                                                                  |  <b>ICN-327</b> - QAT device plugin deploy issue <span>DONE</span>                                        | Sprint 18/19/20                  | Sprint 20                     |       |
|                                                                                                                                                  |  <b>ICN-367</b> - KUD CI Folder installer <span>DONE</span>                                               | Sprint 18/19                     | Sprint 19                     |       |
|                                                                                                                                                  |  <b>ICN-377</b> - Catch the cnf Pod no IP error <span>DONE</span>                                         | Sprint 19                        | Sprint 19                     |       |
|                                                                                                                                                  |  <b>ICN-378</b> - Add watch function for cnf deployment and CR <span>DONE</span>                          | Sprint 19                        | Sprint 19                     |       |
|                                                                                                                                                  |  <b>ICN-399</b> - Apply watch to all controllers and test <span>DONE</span>                              | Sprint 19                        | Sprint 19                     |       |
|                                                                                                                                                  |  <b>ICN-354</b> - Fix ICN node reboot issue for the containerized version <span>DONE</span>             | Sprint 19/20                     | Sprint 31                     |       |
|                                                                                                                                                  |  <b>ICN-393</b> - Create CNF helm chart <span>DONE</span>                                               | Sprint 20                        | Sprint 20                     |       |
|                                                                                                                                                  |  <b>ICN-394</b> - Create helm chart for ICN SDEWAN controller <span>DONE</span>                         | Sprint 20                        | Sprint 20                     |       |
|                                                                                                                                                  |  <b>ICN-442</b> - A watch to monitor the service IPs changes <span>DONE</span>                          | Sprint 22                        | Sprint 22                     |       |
|                                                                                                                                                  |  <b>ICN-413</b> - A new custom Service controller to hold watch function <span>DONE</span>              | Sprint 22                        | Sprint 22                     |       |
|                                                                                                                                                  |  <b>ICN-439</b> - Implement the service RESTful API <span>DONE</span>                                   | Sprint 24/25/26/27               | Sprint 27                     |       |
|                                                                                                                                                  |  <b>ICN-445</b> - Implement the CR for Services <span>DONE</span>                                       | Sprint 26/27                     | Sprint 27                     |       |
|                                                                                                                                                  |  <b>ICN-446</b> - Change the Firewall restart script to update the iptables NAT rules <span>DONE</span> | Sprint 26/27                     | Sprint 27                     |       |
|                                                                                                                                                  |  <b>ICN-455</b> - Implement the CR for Application <span>DONE</span>                                    | Sprint 29/30/31                  | Sprint 31                     |       |
|                                                                                                                                                  |  <b>ICN-491</b> - Implement RESTful API for Application <span>DONE</span>                               | Sprint 29/30                     | Sprint 30                     |       |
|                                                                                                                                                  |  <b>ICN-492</b> - Test the network connection PoC with Calico as default network <span>DONE</span>      | Sprint 29                        | Sprint 29                     |       |
|                                                                                                                                                  |  <b>ICN-495</b> - Create the Application network accession PoC for flannel and OVN <span>DONE</span>    | Sprint 28                        | Sprint 28                     |       |

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|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|--|
|  |  |  | <div><div><div><div><div><div></div><div>ICN-508</div></div><div>Create Non-root user in CNF</div><div>DONE</div></div></div></div></div>                | Sprint 31 | Sprint 31 |  |
|  |  |  | <div><div><div><div><div><div></div><div>ICN-509</div></div><div>Update scripts from helm version v2 to v3</div><div>DONE</div></div></div></div></div>  | Sprint 30 | Sprint 30 |  |
|  |  |  | <div><div><div><div><div><div></div><div>ICN-510</div></div><div>CNF configuration and rule change</div><div>DONE</div></div></div></div></div>          | Sprint 30 | Sprint 30 |  |
|  |  |  | <div><div><div><div><div><div></div><div>ICN-511</div></div><div>Handle some missing errors and response it</div><div>DONE</div></div></div></div></div> | Sprint 31 | Sprint 31 |  |
|  |  |  | <div><div><div><div><div><div></div><div>ICN-512</div></div><div>License updates in CNF RESTful API</div><div>DONE</div></div></div></div></div>         | Sprint 31 | Sprint 31 |  |
|  |  |  | <div><div><div><div><div><div></div><div>ICN-514</div></div><div>Add watch mechanism for pod to auto sync</div><div>DONE</div></div></div></div></div>   | Sprint 32 | Sprint32  |  |
|  |  |  | <div><div><div><div><div><div></div><div>ICN-493</div></div><div>SDEWAN Central Controller: Device Manager</div><div>DONE</div></div></div></div></div>  | Sprint 33 |           |  |

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|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------------------------------|-------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|                                                                                                                                           | JIRA Story                                                                                                                                                 | Sprint/Estimated Completion Date | Status/Actual Completion Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Notes |            |                                  |                               |       |                                                                                                                                           |                                                                                                                                                            |  |  |  |
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|                                                                                                                                                                                                                             |                                                                                                                                                                       |                                  | <div>Ruoyu Ying</div> <div>◦ Todo</div> <table><tr><th>Epic</th><th>JIRA Story</th><th>Sprint/Estimated Completion Date</th><th>Status/Actual Completion Date</th><th>Notes</th></tr><tr><td><div><div><div><div><div><div></div><div>ICN-190</div></div><div>E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN intertaces</div><div>TO DO</div></div></div></div></div></td><td><div><div><div><div><div><div></div><div>ICN-242</div></div><div>Investigate IPSec implementation in strongswan</div><div>DONE</div></div></div></div></div></td><td>Sprint 11/12</td><td></td><td></td></tr><tr><td></td><td><div><div><div><div><div><div></div><div>ICN-275</div></div><div>IPSec CRD Design</div><div>DONE</div></div></div></div></div></td><td>Sprint 11/12</td><td>Sprint 11</td><td></td></tr><tr><td></td><td><div><div><div><div><div><div></div><div>ICN-276</div></div><div>IPSec RESTful API Design</div><div>DONE</div></div></div></div></div></td><td>Sprint 11/12</td><td>Sprint 11</td><td></td></tr><tr><td></td><td><div><div><div><div><div><div></div><div>ICN-280</div></div><div>IPSec CRD and REST API implementation</div><div>DONE</div></div></div></div></div></td><td>Sprint 18</td><td>Sprint 18</td><td></td></tr><tr><td></td><td><div><div><div><div><div><div></div><div>ICN-313</div></div><div>PoC for integration scenario</div><div>DONE</div></div></div></div></div></td><td>Sprint15</td><td>Sprint15</td><td></td></tr><tr><td></td><td><div><div><div><div><div><div></div><div>ICN-314</div></div><div>SDEWAN E2E test scenario integration</div><div>DONE</div></div></div></div></div></td><td>Sprint16</td><td>Sprint17</td><td></td></tr><tr><td></td><td><div><div><div><div><div><div></div><div>ICN-390</div></div><div>SDEWAN end-to-end scenario with CRD &amp; 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| Epic                                                                                                                                                                                                                        | JIRA Story                                                                                                                                                            | Sprint/Estimated Completion Date | Status/Actual Completion Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-276</div></div><div>IPSec RESTful API Design</div><div>DONE</div></div></div></div></div>                                | Sprint 11/12                     | Sprint 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-280</div></div><div>IPSec CRD and REST API implementation</div><div>DONE</div></div></div></div></div>                   | Sprint 18                        | Sprint 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-313</div></div><div>PoC for integration scenario</div><div>DONE</div></div></div></div></div>                            | Sprint15                         | Sprint15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-390</div></div><div>SDEWAN end-to-end scenario with CRD &amp; controller</div><div>DONE</div></div></div></div></div>    | Sprint19                         | Sprint19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-375</div></div><div>Enable end-to-end test scenario in bare-metal</div><div>DONE</div></div></div></div></div>           | Sprint20/21                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-373</div></div><div>SDEWAN CNF: enable VTI router based IPSec</div><div>DONE</div></div></div></div></div>               | Sprint21/22                      | Sprint 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-451</div></div><div>Investigation on BGP /OSPF support</div><div>IN PROGRESS</div></div></div></div></div>               | Sprint26/27                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-484</div></div><div>SDEWAN Central Controller: Hub Manager</div><div>DONE</div></div></div></div></div>                  | Sprint 28/29/Sprint30            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-500</div></div><div>SDEWAN Central Controller: Setup Demo on BM environment</div><div>DONE</div></div></div></div></div> | Sprint29/Sprint30                | Sprint30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                                                                                                                                                                                                             | <div><div><div><div><div><div></div><div>ICN-503</div></div><div>SDEWAN R4 CI testing</div><div>DONE</div></div></div></div></div>                                    | Sprint30                         | Sprint30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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 |  |  |  |                                                                                                                                                                       |                   |          |  |  |                                                                                                                                    |          |          |  |

Mark Scott

- To deploy ICN and KUD in CentOS 8

| Epic                                                                                                                                      | JIRA Story                                                                                                                                                         | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------|
|  <b>ICN-407</b> - KuD Development works <div>TO DO</div> |  <b>ICN-395</b> - Docker ramp up <div>DONE</div>                                  | Sprint 21/22                     |                               |       |
|                                                                                                                                           |  <b>ICN-396</b> - Kubernetes ramp up <div>DONE</div>                              | Sprint 21/22                     |                               |       |
|                                                                                                                                           |  <b>ICN-399</b> - KUD setup <div>DONE</div>                                       | Sprint 22/23                     |                               |       |
|                                                                                                                                           |  <b>ICN-400</b> - Run up Vagrant with CentOS 7 <div>DONE</div>                    | Sprint 22/23                     |                               |       |
|                                                                                                                                           |  <b>ICN-401</b> - Run KUD with Centos 7 in aio setup <div>DONE</div>              | Sprint 22/23/24/25               |                               |       |
|                                                                                                                                           |  <b>ICN-402</b> - Run the KUD Vagrantfile with Centos 7 - phase 1 <div>DONE</div> | Sprint 22/23/24/25               |                               |       |
|                                                                                                                                           |  <b>ICN-437</b> - Centos Docker installation in installer.sh <div>DONE</div>      | Sprint 25/26                     |                               |       |
|                                                                                                                                           |  <b>ICN-438</b> - Centos Kubespray installation in installer.sh <div>DONE</div>   | Sprint 25/26                     |                               |       |

Todd Malsbary

- Todo

| Epic                                                                                                                            | JIRA Story                                                                                                                                                                                                                     | Sprint/Estimated Completion Date | Status/Actual Completion Date | Notes                             |
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|  <b>ICN-5</b> - Kud for ICN <span>TO DO</span> |  <b>ICN-433</b> - Creating EMCO V2 script in KUD <span>DONE</span>                                                                            | Sprint 23                        | Sprint 24                     |                                   |
|                                                                                                                                 |  <b>ICN-448</b> - Create plugin test script for vFW for EMCO V2 script in KUD <span>DONE</span>                                               | Sprint 25                        | Sprint 27                     |                                   |
|                                                                                                                                 |  <b>ICN-456</b> - Run vFW V2 test script as part of ICN install <span>DONE</span>                                                             | Sprint 26                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-479</b> - Review and update plugin_fw_v2.sh for changes to genericPlacementIntent <span>DONE</span>                                   | Sprint 27                        | Sprint 27                     |                                   |
|                                                                                                                                 |  <b>ICN-480</b> - Update plugin_fw_v2.sh to use emccctl <span>DONE</span>                                                                     | Sprint 28                        |                               | Postponing this to future release |
|                                                                                                                                 |  <b>ICN-486</b> - Upgrade the Kubespray 2.14 for KUD <span>DONE</span>                                                                        | Sprint 28                        | Sprint 30                     |                                   |
|                                                                                                                                 |  <b>ICN-513</b> - Installed kernel cmdline needs intel_iommu=on iommu=pt to support QAT <span>DONE</span>                                     | Sprint 31                        | Sprint 31                     |                                   |
|                                                                                                                                 |  <b>ICN-487</b> - Get blual running as part of CI for R4 release <span>DONE</span>                                                            | Sprint 29                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-501</b> - Resolve security PASS /FAIL criteria for R4 <span>DONE</span>                                                               | Sprint 30                        | Sprint 31                     |                                   |
|                                                                                                                                 |  <b>ICN-463</b> - Re-playing the vm-setup/setup-playbook causes subsequent provisioning to fail <span>DONE</span>                             | Sprint 26                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-475</b> - Baremetal deploy make_bm_hosts step fails when baremetal-operator repo is not present <span>DONE</span>                   | Sprint 27                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-476</b> - "/02_verify.sh: line 22: [: too many arguments" when the state is "registration error" <span>DONE</span>                  | Sprint 27                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-477</b> - interface is spelled inteface (missing r) in several places <span>DONE</span>                                             | Sprint 27                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-481</b> - metal3 provisioning fails for nvme devices <span>DONE</span>                                                              | Sprint 28                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-488</b> - The ironic-python-agent.tar link on http://images.rdoproject.com is gone which breaks bare metal deploy <span>DONE</span> | Sprint 28                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-487</b> - username and password from nodes.json are unused <span>DONE</span>                                                        | Sprint 29                        | Sprint 29                     |                                   |
|                                                                                                                                 |  <b>ICN-504</b> - Clean steps should treat missing resources as already deleted <span>DONE</span>                                           | Sprint 30                        | Sprint 31                     |                                   |

