

ICN R3 Timeline

Goals

- Distributed Cloud Manager
- SD-eWAN Controller
- Openness Integration in ICN
- SFC in OVN4NFV
- ICN Readiness
- ICN Maturity

Timelines

Start Date	Release	Sprint	Notes
Jan 15th	v0.3.1	Sprint9 Sprint10 Sprint11	<ul style="list-style-type: none">• ICN bugs• KUD Bugs - OVN, SRIOV, networking• KUD reset/scaling• KUD Deliverables - QAT, CMK• BPA operator reset, scaling• Virtlet Remote access• DCM - API, Design and architecture lighting talk. Phase 1 deliverables• SDWAN - API. Design and architecture lighting talk, Phase 1 deliverables• Openness, Design and architecture lighting talk, Phase 1 deliverables• KUD Updates lighting talk, Phase 1 deliverables• Akraino Maturity Lighting talk & plans• lab setup
Feb 26th	v0.3.2	Sprint12 Sprint13 Sprint14	<ul style="list-style-type: none">• DCM, Phase 2 deliverables• SDWAN, Phase 2 deliverables• Openness, Phase 2 deliverables• KUD, Phase 2 deliverables• Akraino Maturity, CI/CD updates - Phase 1 deliverable
April 1st	v0.3.2	Sprint15- April 1st Sprint16 - April 15th Sprint17 - April 29th	<ul style="list-style-type: none">• DCM, Phase 3 deliverables• SDWAN, Phase 3 deliverables• Openness, Phase 3 deliverables• KUD, Phase 3 deliverables• Akraino Maturity, Blue Val, CI/CD - Phase 2 deliverable
April 30th	v0.3.3		<ul style="list-style-type: none">• DCM, Final deliverables• SDWAN, Final deliverables• Openness, Final deliverables• Infra Global controller, Final deliverables• KUD, Final deliverables• Akraino Maturity, Blue Val CI/CD - Final deliverable

	Release /Tag	Features	Plan/Status Tracking (Please update your JIRAs and note any issues/road blocks with date stamp)
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Igor Duarte Cardoso					
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	ICN-214 - DCM dev works DONE	ICN-376 - DCM re-ramp on Itohan's docs DONE	Sprint 20		Istio
		ICN-380 - Install Istio for replicated control planes DONE	Sprint 20		Istio
		ICN-381 - Test forwarding traffic to custom suffix DONE	Sprint 20		Istio
		ICN-382 - Design+document APIs for Service Mesh deployment controller DONE	Sprint 20		Istio
		ICN-383 - Evaluate "Kubeconfig API (WORK IN PROGRESS)" DONE	Sprint 20		Istio
		ICN-384 - Evaluate apply.go implementation DONE	Sprint 20		Istio
		ICN-385 - Create Namespace in all clusters DONE	Sprint 21+		Istio
		ICN-386 - Create User in all clusters DONE	Sprint 21+		Istio
		ICN-387 - Create Quota in all clusters DONE	Sprint 22+		Istio
		ICN-388 - Create Service mesh in all clusters DONE	Sprint 22+		Istio
	ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	ICN-363 - Review Rama's ICN patches DONE	Sprint 18	Sprint 18	
	ICN-217 - KuD R3 Release works IN PROGRESS	ICN-379 - ECMO V2 Integration in ICN R3 Release version DONE	Sprint 19	Sprint 19	
	ICN-366 - ICN Bluval compliance for R3 DONE	ICN-342 - Test run of ICN Bluval DONE	Sprint 16	Sprint 16	
		ICN-363 - Deploy Jenkins ICN DONE	Sprint 16	Sprint 16	
		ICN-345 - Configure Jenkins for ICN Bluval DONE	Sprint 16	Sprint 16	
		ICN-346 - Implement changes for ICN Bluval private Jenkins DONE	Sprint 16	Sprint 16	
		ICN-347 - Remove ICN Bluval ci-management dependency DONE	Sprint 17	Sprint 17	
		ICN-348 - Investigate missing OS Bluval testing DONE	Sprint 17	Sprint 17	
		ICN-360 - Seek solution for k8s conformance Bluval failure DONE	Sprint 17	Sprint 17	
		ICN-367 - Investigate kubehunter failures DONE	Sprint 17	Sprint 17	
		ICN-360 - Jenkins Bluval: always fresh-install KUD cluster DONE	Sprint 18	Sprint 19	
		ICN-361 - Test Randy's remediations for kubehunter DONE	Sprint 18	Sprint 18	
		ICN-362 - Write ICN Bluval wiki page DONE	Sprint 18	Sprint 18	
		ICN-364 - Jenkins job configurations for long-term Bluval DONE	Sprint 18	Sprint 19	
		ICN-370 - Prepare final report for security SC DONE	Sprint 19	Sprint 19	

		<p>Enyinna Ochulor</p> <ul style="list-style-type: none"> • Todo <table border="1"> <thead> <tr> <th>Epic</th><th>JIRA Story</th><th>Sprint/Estimated Completion Date</th><th>Status/Actual Completion Date</th><th>Notes</th></tr> </thead> <tbody> <tr> <td> ICN-214 - DCM dev works DONE</td><td> ICN-216 - Ramp on gRPC and REST in GO DONE</td><td>Sprint 9</td><td></td><td></td></tr> <tr> <td></td><td> ICN-226 - Model and Present Sample DCM DONE</td><td>Sprint 10</td><td></td><td></td></tr> <tr> <td></td><td> ICN-248 - Build DCM service - Add CRUD operations (without logic) DONE</td><td>Sprint 10</td><td></td><td></td></tr> </tbody> </table>	Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes	ICN-214 - DCM dev works DONE	ICN-216 - Ramp on gRPC and REST in GO DONE	Sprint 9				ICN-226 - Model and Present Sample DCM DONE	Sprint 10				ICN-248 - Build DCM service - Add CRUD operations (without logic) DONE	Sprint 10												
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		<p>Tingjie Chen</p> <p>Persistent Memory Container Storage Interface (PMEM-CSI)</p> <ul style="list-style-type: none"> • Investigate the setup for PMEM-CSI demo • Setup and Build Plugin for Optane PM • Architecture and Use case design for PMEM <table border="1"> <thead> <tr> <th>Epic</th><th>JIRA Story</th><th>Sprint /Estimated Completion Date</th><th>Status /Actual Completion Date</th><th>Notes</th></tr> </thead> <tbody> <tr> <td> ICN-243 - Persistent Memory Container Storage Interface (PMEM-CSI) TO DO</td><td> ICN-244 - Investigate the setup for PMEM-CSI demo DONE</td><td>Sprint 10</td><td></td><td></td></tr> <tr> <td></td><td> ICN-267 - Setup and Build Device Plugin for Optane PM DONE</td><td>Sprint 13</td><td></td><td>Submit draft patch for enabling PMEM-CSI plugin in KUD repo.</td></tr> <tr> <td></td><td> ICN-268 - Architecture and Use case Design for Optane PM DONE</td><td>Sprint 13</td><td></td><td>Proposed several scenarios for AEP and CSI usage for ICN, need the discussion and approval.</td></tr> <tr> <td></td><td> ICN-324 - E2E support for PMEM-CSI plugin DONE</td><td>Sprint 15</td><td></td><td>E2E support for PMEM-CSI plugin</td></tr> <tr> <td></td><td> ICN-335 - Documentation for AEP and PMEM-CSI plugin DONE</td><td>Sprint 15</td><td></td><td>Documentation for AEP and PMEM-CSI plugin</td></tr> </tbody> </table>	Epic	JIRA Story	Sprint /Estimated Completion Date	Status /Actual Completion Date	Notes	ICN-243 - Persistent Memory Container Storage Interface (PMEM-CSI) TO DO	ICN-244 - Investigate the setup for PMEM-CSI demo DONE	Sprint 10				ICN-267 - Setup and Build Device Plugin for Optane PM DONE	Sprint 13		Submit draft patch for enabling PMEM-CSI plugin in KUD repo.		ICN-268 - Architecture and Use case Design for Optane PM DONE	Sprint 13		Proposed several scenarios for AEP and CSI usage for ICN, need the discussion and approval.		ICN-324 - E2E support for PMEM-CSI plugin DONE	Sprint 15		E2E support for PMEM-CSI plugin		ICN-335 - Documentation for AEP and PMEM-CSI plugin DONE	Sprint 15		Documentation for AEP and PMEM-CSI plugin
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	<p>ICN-190 - E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN interfaces</p> <p>TO DO</p>	<p><input checked="" type="checkbox"/> ICN-211 - MWAN3 Restful API</p> <p>DONE</p>	Sprint 9	Sprint 9	
		<p><input checked="" type="checkbox"/> ICN-224 - EWAN Restful API POC</p> <p>DONE</p>	Sprint 10	Sprint 10	
		<p><input checked="" type="checkbox"/> ICN-222 - EWAN Restful API Go Client POC</p> <p>DONE</p>	Sprint 10	Sprint 10	
		<p><input checked="" type="checkbox"/> ICN-236 - EWAN Service Restful API</p> <p>DONE</p>	Sprint 10	Sprint10	
		<p><input checked="" type="checkbox"/> ICN-274 - EWAN MWAN3 API implementation</p> <p>DONE</p>	Sprint 11	Sprint 11	
		<p><input checked="" type="checkbox"/> ICN-272 - EWAN Firewall API definition</p> <p>DONE</p>	Sprint 12	Sprint 12	
		<p><input checked="" type="checkbox"/> ICN-273 - EWAN Firewall API implementation</p> <p>DONE</p>	Sprint 13	Sprint 13	
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		<p><input checked="" type="checkbox"/> ICN-344 - SDEWAN E2E test scenario integration</p> <p>DONE</p>	Sprint16	Sprint17	
		<p><input checked="" type="checkbox"/> ICN-372 - SDEWAN Central Controller /Traffic Hub design</p> <p>DONE</p>	Sprint21		
		<p><input checked="" type="checkbox"/> ICN-394 - SDEWAN Central Controller: POC for golang Restful API Server</p> <p>DONE</p>	Sprint21		

		<ul style="list-style-type: none"> • ICN R3 Deliverables <p>Kuralamudhan Ramakrishnan</p>	<ul style="list-style-type: none"> All bug fixed for ICN R2 and customer readiness DCM, SD-eWAN, Openness in ICN R3 release Offline deployment & Global controller completion in R3 Launch & Performance Dashboard CI/CD system & ICN maturity 	
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 ICN-61 - ICN CI / CD works TO DO	 ICN-178 - ICN SDL works DONE	Sprint 9	Sprint 9	
 ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	 ICN-193 - Metal3 Refactoring & ICN R2 bug Fixes - OS and user data DONE	Sprint 9	Sprint 11	
 ICN-244 - DCM dev works DONE	 ICN-192 - DCM lighting talk - API & Design development DONE	Sprint 9	Sprint 9	
 ICN-191 - Integration OpenNESS with ICN TO DO	 ICN-194 - Openness & SDWAN Lighting talks - API & design prep DONE	Sprint 9	Sprint 9	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-228 - Ramp up on OVN4NFV and running the patches DONE	Sprint 11	Sprint 11	
 ICN-238 - Ramp up on OVN4NFV and running the patches DONE	 ICN-257 - ICN script updates DONE	Sprint 11	Sprint 11	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-259 - OVN containerization DONE	Sprint 12	Sprint 12	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-263 - Adding OVN4K8s in Kubespray DONE	Sprint 14/15/16/17	Sprint 17	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-264 - Making OVN4NFV as the primary network DONE	Sprint 12/13	Sprint 13	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-293 - Refactoring OVN coding for OVN containerization daemonset DONE	Sprint 13/14	Sprint 13/14	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-311 - Introducing Provider Network Direct type DONE	Sprint 14	Sprint 14	
 ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	 ICN-324 - Bug fixes & Testing for ICN Baremetal Operator version DONE	Sprint 14	Sprint 14	
 ICN-1 - Metal3 Baremetal Operator in ICN Stack IN PROGRESS	 ICN-349 - Fix the ICN baremetal operator version DONE	Sprint 14	Sprint 14	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-322 - Bug fixes for the OVN4NFV-K8s plugin primary routing issues DONE	Sprint 15	Sprint 15	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-346 - Akraino ICN installation issue on baremetal server #ICN DONE	Sprint 15	Sprint 15	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-330 - CNI Server development in ONAP4K8s DONE	Sprint 16	Sprint 16	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-334 - CNI shim development in ONAP4K8s DONE	Sprint 16	Sprint 16	
 ICN-189 - ICN CI/CD TO DO	 ICN-264 - ICN BM and VM installer script improvement DONE	Sprint 17	Sprint 17	
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-343 - Post review patches for OVN4NFV DONE	Sprint 20/21		
 ICN-189 - ICN CI/CD TO DO	 ICN-348 - Documentation and patch review for ICN Release DONE	Sprint 18/19/20		
 ICN-236 - OVN4K8SNFV development work IN PROGRESS	 ICN-359 - Post review for Kubespray DONE	Sprint 20/21		
 ICN-189 - ICN CI/CD TO DO	 ICN-359 - Code review and CI/CD Testing DONE	Sprint 18/19	Sprint 19	

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ICN-190 - E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN interfaces TO DO	ICN-299 - SDEWAN CRD definition DONE	Sprint 9	Sprint 9																																																																										
	ICN-344 - MWAN3 rule CRD definition DONE	Sprint 9	Sprint 9																																																																										
	ICN-305 - SDEWAN Operator Framework DONE	Sprint 10/11/12	Sprint 12																																																																										
	ICN-360 - Firewall CRD definition DONE	Sprint 12	Sprint 12																																																																										
	ICN-312 - Sdewan CRD re-design DONE	Sprint 13	Sprint14																																																																										
	ICN-329 - Sdewan controller framework DONE	Sprint14/15	Sprint 17																																																																										
	ICN-368 - Extract similar logical of CRD controllers DONE	Sprint 17	Sprint 17	Postpone to R3.1																																																																									
	ICN-369 - implement label based permission system, phase one DONE	Sprint 18	Sprint 18	Postpone to R3.1																																																																									
	ICN-369 - implement label based permission system, phase two DONE	Sprint 19	Sprint 19	Postpone to R3.1																																																																									
	ICN-270 - Sdewan firewall controller implementation DONE	Sprint 13	Sprint 19	Postpone to R3.1																																																																									
	ICN-268 - Add Sdewan firewall CRD DONE	Sprint 13	Sprint 19	Postpone to R3.1																																																																									
	ICN-304 - EWAN Firewall CRD /Rest API integration DONE	Sprint 13		Postpone to R3.1																																																																									
	ICN-343 - PoC for integration scenario DONE	Sprint15	Sprint15																																																																										
	ICN-314 - SDEWAN E2E test scenario integration DONE	Sprint16	Sprint17																																																																										

Akhila Kishore					
<ul style="list-style-type: none"> ◦ Todo 					
Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes	
 ICN-217 - KuD R3 Release works IN PROGRESS	 ICN-223 - KuD Clean up Script DONE	Sprint 10			
	 ICN-227 - KuD lighting talk presentation DONE	Sprint 11			
	 ICN-180 - Integrate QAT device plugin to KuD add-ons. DONE	Sprint 11/12			

Le Yao					
<ul style="list-style-type: none"> ◦ Todo 					
Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes	
 ICN-217 - KuD R3 Release works <small>IN PROGRESS</small>	 ICN-260 - KUD Multi Vagrant 18.04 issue <small>DONE</small>	Sprint 11/12/14/15	Sprint 15		
	 ICN-284 - Vagrant vm can not get correct name server in ubuntu-1804. <small>DONE</small>	Sprint 11	Sprint 11		
	 ICN-285 - Installer vm cannot install nfs because of nameserver issues. <small>DONE</small>	Sprint 12/14/15	Sprint 15		
	 ICN-286 - All other VMs are unreachable for Installer VM <small>DONE</small>	Sprint 12	Sprint 12		
	 ICN-303 - Compute01 no spcae left in KUD Multi Vagrant <small>DONE</small>	Sprint 12	Sprint 12		
	 ICN-316 - Vagrant Box Build with base Ubuntu-18.04 for ICN <small>DONE</small>	Sprint 13	Sprint 13		
	 ICN-308 - Upgrade the Kubespray 2.12 for KUD <small>DONE</small>	Sprint 16/17/18/19	Sprint 19		
	 ICN-327 - criproxy failed to start up after node reboot <small>DONE</small>	Sprint 16/17	Sprint 17		
	 ICN-336 - Vagrant Virtlet testing not working in proxy testings <small>DONE</small>	Sprint 16	Sprint 16		
	 ICN-337 - QAT device plugin deploy issue <small>DONE</small>	Sprint 18/19/20	Sprint 20		
	 ICN-367 - KUD CI Folder installer <small>DONE</small>	Sprint 18/19	Sprint 19		
	 ICN-377 - Catch the cnf Pod no IP error <small>DONE</small>	Sprint 19	Sprint 19		
	 ICN-378 - Add watch function for cnf deployment and CR <small>DONE</small>	Sprint 19	Sprint 19		
	 ICN-380 - Apply watch to all controllers and test <small>DONE</small>	Sprint 19	Sprint 19		
	 ICN-364 - Fix ICN node reboot issue for the containerized version <small>DONE</small>	Sprint 19/20			
	 ICN-393 - Create CNF helm chart <small>DONE</small>	Sprint 20			
	 ICN-394 - Create helm chart for ICN SDEWAN controller <small>DONE</small>	Sprint 20			

Liang Ding					
<ul style="list-style-type: none"> ◦ Todo 					
Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes	
 ICN-296 - add CMK support in multicloud/k8s KuD <small>IN PROGRESS</small>					

Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
 ICN-217 - KuD R3 Release works <small>IN PROGRESS</small>	 ICN-296 - add CMK support in multicloud/k8s KuD <small>IN PROGRESS</small>			

Ruoyu Ying				
<ul style="list-style-type: none"> ◦ Todo 				
Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
ICN-190 - E2E usages for SDWAN module in ICN to support multiple cluster communication through security WAN interfaces TO DO	ICN-242 - Investigate IPsec implementation in strongswan DONE	Sprint 11/12		
	ICN-275 - IPsec CRD Design DONE	Sprint 11/12	Sprint 11	
	ICN-276 - IPsec RESTful API Design DONE	Sprint 11/12	Sprint 11	
	ICN-280 - IPsec CRD and REST API implementation DONE	Sprint 18	Sprint 18	
	<input checked="" type="checkbox"/> ICN-343 - PoC for integration scenario DONE	Sprint 15	Sprint 15	
	ICN-344 - SDEWAN E2E test scenario integration DONE	Sprint 16	Sprint 17	
	ICN-390 - SDEWAN end-to-end scenario with CRD & controller DONE	Sprint 19	Sprint 19	
	ICN-376 - Enable end-to-end test scenario in bare-metal DONE	Sprint 20/21		
	<input checked="" type="checkbox"/> ICN-373 - SDEWAN CNF: enable VTI router based IPsec DONE	Sprint 21/22		
	ICN-444 - Demos to showcase sdewan functionalities DONE	Sprint 23/24	Sprint 23	
	ICN-451 - Investigation on BGP /OSPF support IN PROGRESS	Sprint 26/27		

Matt Welch				
<ul style="list-style-type: none"> ◦ EdgeX Foundry install with KUD and demo 				
Epic	JIRA Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
ICN-239 - Install EdgeX Foundry using KUD, with tests and usage demo IN PROGRESS	ICN-229 - Create test to verify edgeX foundry services DONE	Sprint 14	Sprint 14	
	ICN-237 - Create demo for EdgeX Foundry IN PROGRESS	Sprint 14		
	ICN-304 - Convert EdgeX docker compose files into K8s deployments IN PROGRESS	Sprint 14		
	ICN-324 - Document EdgeXFoundry docker-compose process in Wiki IN PROGRESS	Sprint 14		

Chenjie Xu					
	Epic	Story	Sprint/Estimated Completion Date	Status/Actual Completion Date	Notes
	 ICN-191 - Integration OpenNESS with ICN TO DO	<input checked="" type="checkbox"/> ICN-243 - OpenNESS gap for Network Policy DONE	Sprint 9	Sprint 9	
		<input checked="" type="checkbox"/> ICN-232 - OpenNESS gap for OS (Ubuntu) DONE	Sprint 10	Sprint 10	
		<input checked="" type="checkbox"/> ICN-233 - OpenNESS gap for Cross-Node communication DONE	Sprint 10	Sprint 10	
		<input checked="" type="checkbox"/> ICN-245 - OpenNESS gap for DNS DONE	Sprint 10	Sprint 10	
		<input checked="" type="checkbox"/> ICN-246 - OpenNESS gap for Security DONE	Sprint 10	Sprint 17	
		<input checked="" type="checkbox"/> ICN-278 - Investigate Openness integration for multus, sriov, nfd, bios, ipga, cmk, topology manager DONE	Sprint 12	Sprint 12	
	 ICN-277 - Openness_deployer PR in ICN tool folder	<input checked="" type="checkbox"/> DONE	Sprint 12	Sprint 17	
		<input checked="" type="checkbox"/> ICN-297 - Develop test cases for multus, sriov cnf, sriov network device plugin, nfd, CMK, topology manager DONE	Sprint 12/13	Sprint 17	
		<input checked="" type="checkbox"/> ICN-298 - Integrate eaa via onap4k8s DONE	Sprint 12/13	Sprint 17	
		<input checked="" type="checkbox"/> ICN-332 - Ensure that EAA supports distributed applications DONE	Sprint 15/16	Sprint 17	
		<input checked="" type="checkbox"/> ICN-333 - Investigate OpenNESS 20.03 IN PROGRESS	Sprint 16		
		<input checked="" type="checkbox"/> ICN-340 - Integrate Topology Manager IN PROGRESS	Sprint 16		