Release 5 Planning

Sukhdev Kapur

Jeff Brower - added items in red

Release 5 target date is June 30th 2021.

Classes of release 5 Blueprints and the requirements to be included in Release 5

The requirements for the blueprints to be included in release 5 are as follows:

Depending upon the situation, the PTLs are suggested to meet the following criteria -

Class 1: The Blueprints moving from Release 4 to Release 5

If the blueprint is already part of release 4 and you want this to be included in release 5, please follow the following steps:

- Did you make any improvements in release 5 - e.g. you fixed bugs or added additional features?
  - If Yes:
    - Does it impact the APIs or Documentation?
      - If yes,
        - Please update ~~the APIs and~~ the documentation and send the email to respective sub-committee chairs.
        - For APIs, please see API Subcommittee Guidelines below
      - Run the security scans and upload the link in the table below next to your blueprint
      - Upload the latest CI/CD logs
      - Send an email to tsc@lists.akraino.org to notify the TSC
      - Put yourself on the TSC agenda and request for the approval
  - If No:
    - No additional formalities are required
    - Send an email to tsc@lists.akraino.org to notify the TSC
    - Put yourself on the TSC agenda and request for the approval

Class 2: The Blueprints moving from Release 3 to Release 5

If the blueprint is already part of release 3 and not release 4 and you want this to be included in release 5, please follow the following steps:

Note that in release 4, a new requirement was introduced to expose all the API consumed and offered by your blueprint.

- Please update the documentation to include new API section.
- Follow the guidelines to submit API information as per the requirements specified in the API sub-committee
- send the email to respective documentation and API sub-committee lists.
  - If you require assistance with documentation ~~or APIs~~, please reach out the respective subcommittee to be included on their agenda and discuss with them otherwise you are done
  - For APIs, please see API Subcommittee Guidelines below
- Run the security scans and upload the link in the table below next to your blueprint
- Upload the latest CI/CD logs
- Send an email to tsc@lists.akraino.org to notify the TSC
- Put yourself on the TSC agenda and request for the approval

Class 3: The Blueprints moving from Release 2 or earlier to Release 5

If the blueprint is already part of release 1 or 2 and not release 3 or 4 and you want this to be included in release 5, please follow the following steps described under Class 4 below.

Class 4: New Blueprints being introduced for the first time in Release 5

Please follow the requirements specified in release 4 with the following exceptions:

1. The sub-committee presentations are optional starting from release 5 and for your benefit only. If you require assistance on any of the areas such as ~~APIs,~~ documentation, Security scans or CI/CD logs, please schedule a meeting with appropriate subcommittee.
2. For APIs, please see API Subcommittee Guidelines below
3. Once you meet the requirements of respective subcommittee, please send them an email to notify them. Except for APIs, as noted in 2., if they require any clarification, they will either invite you to meet with them or they will approve your blueprint via email.
4. Send an email to tsc@lists.akraino.org to notify the TSC
5. Put yourself on the TSC agenda and request for the approval

API Subcommittee Guidelines

Please follow step-by-step instructions on the API Subcommittee API reporting wiki page. If after submitting your API info form (or an updated form, if you are in Class 1 and the form has changed since Release 4) and notifying the subcommittee by e-mail they have questions, then schedule a time when either subcommittee members may attend your weekly BP meeting or you can attend the API subcommittee weekly meeting in order to discuss and resolve the questions. When meeting, please be prepared with architecture and data flow diagrams so the API subcommittee can understand and confirm 1) APIs consumed and offered by your BP, 2) upstream project APIs, and 3) customer-facing demo APIs. This information will be used to update the Akraino website API Map, which makes your BP visible and searchable to customers and entities outside of Akraino, so completeness and accuracy is important.

1. Self Certified Milestones Achievement Due Date May 31st 2021 (Milestone 4)



2. Maturity Review Milestone Achievement Due date May 31st 2021



Please add targeted and achieved R4 milestones at:

BP Incubation Stage Reporting R4 (To be updated)

Define area of focus

(to be updated)

1. Virtual meeting to start to have a session to discuss all of the agenda items.

2. Different patches from different blueprints need to be up-streamed.
3. Need a consistent framework
4. New blueprints have been committed for R5.
5. Want to increase standards on Release 5.
6. Validation Project test layers and test cases
7. Self Certification in R4?

Release 5 Requirements



1. High Level Overall Requirements
2. CI, Blueprint Validation Lab Sub-Committee Requirements
    a. Present Pod Topology document.
    b. Peering w/LF Jenkins - **(Note: peering is an optional requirement)**
    c. Push logs through Nexus. **(Note: This is mandatory for Incubation self-certified and Maturity)**
    d. Usage of topics for release

        i. Releases >= 1.0 (e.g. 1.xyz, 2.xyz etc) are reserved for BP that have been approved as Core by the TSC (considered 'GA' quality).
        ii. Releases <1.0 (e.g. 0.xyz etc) are reserved for projects that have not reached the Akraino Core level (i.e. anything that is in Incubation ('alpha' quality) and Mature ('beta' quality).
    e. Enforcement of Static Code Analysis through SonarCloud (SaaS), WIP LF Release Engineering & Security Subcommittee. **(Note: This is an optional requirement for Incubation self certified and mandatory for Maturity)**
3. Security Sub-Committee Requirements, please fill in Release 4 Blueprint Scanning Status. Instructions can be found at: Steps To Implement Security Scan Requirements
4. Blueprint Validation Framework Feature Project Requirements See TSC meeting.
5. Projects going for Maturity Review please refer to Maturity Criteria defined by Process subcommittee BP Graduation Review Processes and Criteria **(Note this is not required for self certification, only required for maturity review)**
6. Documentation Sub-Committee Requirements
   User Documents:

   The following documentation with the following sections called out should be on the wiki with links to rest of the sections as applicable. We prefer that the entire doc is on the wiki but we do not require it.

   Architecture - Blue print Overview and overall architecture

   Release Notes – Summary and What is released

   Installation Doc – Introduction and deployment architecture

   Test Document – Introduction and Overall Test Architecture

   Developer Documents:

   We are also recommending that Blueprints include via ReadtheDocs, with each Blue Print given their own repo, but we do not require it
7. API Sub-Committee Requirements **(Note: See this link for requirements: Blueprint Projects API Reporting Requirements)**
8. Community Sub-Committee Requirements **(Note: no mandatory requirements for Incubation self-certified or Maturity)**
9. Process Sub-Committee Requirements **(Note: See the Process Sub Committee page defining the TSC approved Maturity review process and requirements for those requesting inclusion in R3 at Mature level** BP Graduation Review Processes and Criteria**)**
10. Upstream Sub-Committee Requirements **(Note: no mandatory requirements for Incubation self-certified or Maturity).** Here is the R4 release Upstream BP review status, Release Upstream Compliance. Also please refer to the page for the R4 requirement as well.

Blue Prints Participating in Release 5

Internal Target date to meet Rel 5 Criteria is June 30th (please add your target/achieved date at the BP Incubation Stage Reporting R2 (To Be Updated))

(To be updated)

No.	Project Name	TSC Subgroup Release Status	Is this your first release	Blue Print Stage • Self-Certify • Incubation • Maturity • Core	CD Logs URL to be used for review (Column filled in by PTLs) How to: Push Logs to Nexus Jenkins Master for Private Lab Jenkins Peering Guide Example: KubeEdge BP Test Documents	Link to executive one pager (editable doc format) (Column filled in by PTLs)	API Info Reporting Review (Column filled in by API Subcommittee) (note for PTLs – go here for steps to fill in project API info form)	BluVal Certification Bluval User Guide	Security Certification Provide link to Vuls, Lynis, and Kube-Hunter logs below. Pass/Fail Criteria: Steps To Implement Security Scan Requirements Exception requests should be filed at: Release 5: Akraino CVE Vulnerability Exception Request	Upstream Review (Column filled by Upstream Subcommittee and PTLs) (note PTL can go to Release 5 BP/Feature Upstream Status to find details)	Date ready for TSC review (Column filled in by PTLs)	TS Re Da (C fill by
1	Connected Vehicle Blueprint Thor Chin Tao Wang		No	Mature	https://nexus.akraino.org/content/sites/logs/parserlabs/r4/jobs/cvb/	CVB_Akraino_R5_blueprint_Datasheet.docx	Per e-mail from WANG Tao (Tucker Wang) 20Aug21, no changes from R4			Completed by 8/24/2021		
2	IEC Type 4: AR/VR oriented Edge Stack for Integrated Edge Cloud (IEC) Blueprint Family Bart Dong Thor Chin		No	Mature	https://nexus.akraino.org/content/sites/logs/parserlabs/r4/jobs/iec-type4/	IEC-Type4 Release 5 datasheet.docx	Per e-mail from Bart 7Sep21, no changes from R4					
3												
4	ICN - Integrated Cloud-Native Family Kuralamudhan Ramakrishnan		No	Incubation	ICN Master Bare Metal Deployment Verifier ICN Master Virtual Deployment Verifier	ICN R5 Datasheet	Per notice from Kural 5Aug21, no change from R4	https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master/20210707-182026/results/os/lynis/ https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master/20210707-182026/results/os/vuls/ https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master/20210707-182026/results/k8s/conformance/ https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master/20210707-182026/results/k8s/kube-hunter/	Filed Release 5: Akraino CVE Vulnerability Exception Request **Incubation Level Review Results:** 09 Aug 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 09 Aug 2021 **Lynis**: Accepted _____ _____ _____ _____ 09 Aug 2021 **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted	Completed by 8/6/2021		

5	ICN - Multi-Tenant Secure Cloud Native Platform Salvador Fuentes		Yes	Incubation	https://nexus.akraino.org/content/sites/logs/intel/ICN_CD_logs/pod11-node5/icn-master-bm-verify-bm_verifer-kata/12/	ICN-MTSCN R5 Datasheet	API form uploaded 24 May e-mail questions exchanged 20Jul21 Scheduled for review by API subcommittee 23 Jul 2021 API subcommittee review completed and info accepted 23 Jul 2021	https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master-kata/20210624-025354/results/os/lynis/ https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master-kata/20210712-025145/results/os/vuls/ https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master-kata/20210624-025354/results/k8s/conformance/ https://nexus.akraino.org/content/sites/logs/intel/bluval_results/icn/master-kata/20210624-025354/results/k8s/kube-hunter/	Filed Release 5: Akraino CVE Vulnerability Exception Request **Incubation Level Review Results:** 09 Aug 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 09 Aug 2021 **Lynis**: Accepted _____ _____ _____ _____ 09 Aug 2021 **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted	Completed by 8/10/2021		
6	ELIOT IoT Gateway Blueprint khemendra kumar		No	Incubation	https://nexus.akraino.org/content/sites/logs/huawei/job/eliot-build/18/home/jenkins/log/	ELIOT R5 IoT-Gateway Datasheet	Per e-mail from Khemendra 26Aug21, no changes from R4	https://nexus.akraino.org/content/sites/logs/huawei/job/eliot-security-validation-build/4/results/ Akraino BluVal Exception Request	**Incubation Level Review Results:** 19 Jul 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 19 Jul 2021 **Lynis**: Accepted _____ _____ _____ _____ 16 Aug 2021 **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted with exceptions shown at: Release 5 Blueprint Scanning Status	Completed 8/6/2021		

7	ELIOT SD-WAN/WAN Edge/uCPE Blueprint khemendra kumar		NO	Incubation	https://nexus.akraino.org/content/sites/logs/huawei/job/eliot-uCPE-build/15/home/jenkins/log/	ELIOT R5 - SD-WAN / WAN Edge / uCPE Data Sheet	Per e-mail from Khemendra 26Aug21, no changes from R4	https://nexus.akraino.org/content/sites/logs/huawei/job/eliot-uCPE-security-build/10/results/ Akraino BluVal Exception Request	**Incubation Level Review Results:** 20 Jul 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 20 Jul 2021 **Lynis**: Accepted _____ _____ _____ _____ 16 Aug 2021 **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted with exceptions shown at: Release 5 Blueprint Scanning Status	Completed on 8/6/2021		
8	Network Cloud and TF (Tungsten Fabric) Integration Project Sukhdev Kapur	TSC 2021-08-12 (Thursday) 7:00 am Pacific	No	Incubation	https://nexus.akraino.org/content/sites/logs/juniper/validation-2021/	Blueprint Data Sheet	Per e-mail from Sukhdev 5Aug21, no change from R4	Not required as there is no change from Release 4	Not required as there is no change from Release 4	Completed by 8/10/2021	08/12/2021	

9	KNI Provider Access Edge Ricardo Noriega		No	Incubation	https://jenkins.akraino.org/job/kni-blueprint-pae-verify-deploy-gcp/69/	Akraino R5 blueprint Datasheet_ KNI PAE.odt	Per e-mail from Ricardo 10Aug21, he uploaded R5 API info forms for both KNI blueprints, with no substantive changes from R4. The API subcommittee has a review scheduled for 20 Aug 2021 of the new API info forms and will update this table afterwards On 20 Aug 2021 the API Subcommittee reviewed and accepted the updated KNI R5 API forms		https://nexus.akraino.org/content/sites/logs/redhat-kni/bluval_results/ **Incubation Level Review Results:** 17 Sep 2021 **Vuls:** Accepted with exception. The KNI Provider Access Edge blueprint uses OpenShift as its k8s distribution, which is deployed on Red Hat CoreOS, an immutable OS that is not supported by Vuls. _____ _____ _____ _____ 02 Sep 2021 **Lynis**: Accepted _____ _____ _____ _____ 20 Aug 2021 Output manually generated, located at: Release 5 Security Scan Manual Logs **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted with exceptions shown at: Release 5 Blueprint Scanning Status	Completed by 8/10/2021	9/16/2021	

10	KNI Industrial Edge Ricardo Noriega		No	Incubation	Management Hub: https://logs.akraino.org/production/vex-yul-akraino-jenkins-prod-1/kni-blueprint-management-hub-verify-deploy-gcp/19/ Industrial Edge: https://logs.akraino.org/production/vex-yul-akraino-jenkins-prod-1/kni-blueprint-ie-verify-deploy-gcp/4/	Akraino R5 blueprint Datasheet_KNI IE.odt	See above note		https://nexus.akraino.org/content/sites/logs/redhat-kni/bluval_results/ **Incubation Level Review Results:** 17 Sep 2021 **Vuls:** Accepted with exception. The KNI Provider Access Edge blueprint uses OpenShift as its k8s distribution, which is deployed on Red Hat CoreOS, an immutable OS that is not supported by Vuls. _____ _____ _____ _____ 02 Sep 2021 **Lynis**: Accepted _____ _____ _____ _____ 20 Aug 2021 Output manually generated, located at: Release 5 Security Scan Manual Logs **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted with exceptions shown at: Release 5 Blueprint Scanning Status	Completed by 8/10/2021	9/16/2021	
11	Micro-MEC Ferenc Székely											
12	The AI Edge: School /Education Video Security Monitoring Yu, Liya	TSC 2021-09-21 (Tuesday) 7:00 am Pacific	No	incubation	https://nexus.akraino.org/content/sites/logs/baidu/job/aiedge/6/	AIEdge_Akraino R5 blueprint Datasheet.docx	Per e-mail from Liya Yu 21Sep21, no changes from R4	https://nexus.akraino.org/content/sites/logs/baidu/job/security_scan/aiedge/4/result/	**Incubation Level Review Results:** 26 Oct 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 27 Oct 2021 **Lynis**: Accepted _____ _____ _____ _____ 26 Oct 2021 **Kube-Hunter:** **Pod:** Accepted **Cluster:** Accepted		9/20/2021	9/21/

13	The AI Edge: Intelligent Vehicle-Infrastructure Cooperation System(I-VICS) Yu, Liya		No	• Incubation	https://nexus.akraino.org/content/sites/logs/fate/job/I-VICS/5/	Intelligent Vehicle-Infrastructure Cooperation System(I-VICS) Datasheet	Per e-mail from Zhuming Zhang (Simmy Zhang) 30Aug21, no changes from R4 Confirmed by Sihui Wang in e-mail 30Aug21	https://nexus.akraino.org/content/sites/logs/fate/job/I-VICS/5/	No new features or bugs have been added after R4 release	Missing Upstream information		
14	5G MEC /Slice System to Support Cloud Gaming, HD Video and Live Broadcasting Blueprint Feng Yang	TSC 2021-08-17 (Tuesday) 7:00 am Pacific	No	Incubation	https://nexus.akraino.org/content/sites/logs/tencent/job/tencent_5g_mec/	5G MEC_Akraino R4&5 blueprint Datasheet.docx	Per e-mail from Eagan Fu 15Aug21, no change from R4			Completed by 8/24/2021		
15	IEC Type 3: Android cloud native applications on Arm servers in edge for Integrated Edge Cloud (IEC) Blueprint Family hanyu ding Rajeev Gadgil		No	Incubation			As of 28 Sep 2021, waiting for API info form to be uploaded to API Subcommittee review page (Blueprint Projects API Reporting Requirements) API info form uploaded by Rajeev 28 Sep 2021 API info form reviewed 01 Oct 2021, no APIs offered or consumed, as Blueprint constructs and provides an Android cloud run-time environment for user applications Note - would like to further understand this when the BP comes up for review and voting approval during TSC call					
16	IEC Type 5: SmartNIC for Integrated Edge Cloud (IEC) Blueprint Family Leo Li	TSC 2021-09-21 (Tuesday) 7:00 am Pacific	No	Incubation	https://nexus.akraino.org/content/sites/logs/cmti/job/iec5_r4/15/	IEC Release5-SmartNIC datasheet.docx IEC Release5 SmartNIC System Architecture.pdf	Per e-mail from Leo Li (Socnoc AI Inc) 11Aug21, no change from R4	Bluval Exception has been accepted for the project. Akraino BluVal Exception Request	No new features or bugs have been added after R4 release	R5 Release Notes of IEC Type 5: SmartNIC for Integrated Edge Cloud (IEC) Blueprint Family Completed by 8/30/2021		
17	Enterprise Applications on Lightweight 5G Telco Edge Gaurav Agrawal		No	Incubation	https://nexus.akraino.org/content/sites/logs/huawei/job/ealt-edge-build/51/home/jenkins/log/	EALTEDGE Release 5 Datasheet	Per e-mail from Khemendra 20Aug21 (with Gaurav cc'd), no changes from R4	https://nexus.akraino.org/content/sites/logs/huawei/job/ealt-security-validation-build/19/results/ Akraino BluVal Exception Request	**Incubation Level Review Results:** 19 Jul 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 19 Jul 2021 **Lynis**: Accepted _____ _____ _____ _____ 16 Aug 2021 **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted with exceptions shown at: Release 5 Blueprint Scanning Status	R5 - Architecture Documentation of Enterprise Applications on Lightweight 5G Telco Edge Completed by 8/10/2021		

18	Public Cloud Edge Interface (PCEI) Blueprint Oleg Berzin	TSC 2021-08-10 (Tuesday) 7:00 am Pacific	No		https://nexus.akraino.org/content/sites/logs/cmti/job/pcei-daily/	https://wiki.akraino.org/x/lwHkAg	Per API Subcommittee meeting 30Jul21, no change from R4 PCEI R5 API Doc: https://wiki.akraino.org/x/qgHkAg	https://nexus.akraino.org/content/sites/logs/pcei/job/r5/v1/ 02 Aug 2021 https://nexus.akraino.org/content/sites/logs/pcei/job/r5/v2/ Fixed: fs.suid_dumpable net.ipv4.conf.default.accept_source_route	**Incubation Level Review Results:** 29 Jul 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 16 Aug 2021 **Lynis**: Accepted with exceptions shown at: Release 5 Blueprint Scanning Status _____ _____ _____ _____ 16 Aug 2021 **Kube-Hunter:** **Cluster:** Accepted **Pod:** Accepted with exceptions shown at: Release 5 Blueprint Scanning Status	PCEI R5 Release Notes https://wiki.akraino.org/x/LgLkAg Completed by 8/6/2021	10 Aug 2021	
19	The AI Edge: Federated ML application at edge zifan wu haihui wang	TSC 2021-08-26 (Thursday) 7:00 am Pacific	No	• Incubation	**https://nexus.akraino.org/content/sites/logs/fate/job/Fate_test/15/**	Akraino R5 Federated ML blueprint datasheet.docx	Per e-mail from Zifan 8Aug21, no change from R4	~~https://nexus.akraino.org/content/sites/logs/fate/job/fate_security/1~~ 04 Aug 2021 ~~https://nexus.akraino.org/content/sites/logs/fate/fml/2/~~ 17 Aug 2021 ~~https://nexus.akraino.org/content/sites/logs/fate/fml/3~~ ~~Fix Lynis issues and upgrade curl to 7.78.~~ 19 Aug 2021 https://nexus.akraino.org/content/sites/logs/fate/fml/5/ Fixed 3 issues.	**Incubation Level Review Results:** 20 Aug 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 20 Aug 2021 **Lynis**: Accepted _____ _____ _____ _____ 16 Aug 2021 Kube-Hunter: Exception granted: K8s not used by this BP.	federated ML Release Notes R5 Federated ML application at edge Release Notes Completed by 8/30/2021		
20	KubeEdge Edge Service Blueprint Yin Ding				@Alexande							

21	Private LTE /5G ICN Blueprint Prem Sankar G	TSC 2021-08-03 (Tuesday) 7:00 am Pacific	No	Incubation	https://nexus.akraino.org/content/sites/logs/juniper/job/Private%205G%20BP/	Akraino Private LTE /5G BP Datasheet	Per e-mail from Prem 27Aug21, no change from R4			Completed by 8/10 /2021		
22	Rural Edge blueprint for Tami COVID-19 Blueprint Family Surojit Banerjee											
23	Smart Cities Olivier Bernard Cindy Xing Alexander Su (alexander@nexcom.com) Jason Wen Jack Liu	TSC 2021-09-21 (Tuesday) 7:00 am Pacific	Yes	Incubation	https://nexus.akraino.org/content/sites/logs/myais/job/parsec/10/	Smart Cities R5 Executive One Pager	API info form uploaded 29 Sep 2021to API Subcommittee review page (Blueprint Projects API Reporting Requirements). Approved based on informal review 29 Sep 2021 Smart Cities R5 API Document	~~https://nexus.akraino.org/content/sites/logs/myais/validation/1/~~ 16 Sep 2021 https://nexus.akraino.org/content/sites/logs/myais/validation/2 fix lynis issues. 05 Oct 2021	Smart Cities R5 Security Certification **Incubation Level Review Results:** 30 Sep 2021 **Vuls**: Accepted with exceptions shown at: Release 5 Vuls Exception Request _____ _____ _____ _____ 05 Oct 2021 **Lynis**: Accepted _____ _____ _____ _____ 01 Oct 2021 Kube-Hunter: Exception granted: K8s not used by this BP for R5. However, in R6 it is planning to use K3s.	Completed by 9/30 /2021 R5 Smart Cities BP release notes: Smart Cities R5 Release Notes	9/20/2021	9/21/
24	MEC-based Stable Topology Prediction for Vehicular Networks Asif Mehmood	TSC 2021-09-21 (Tuesday) 7:00 am Pacific	Yes	Incubation	https://nexus.akraino.org/content/sites/logs/jejunu-pred-vanet-mec/job/push-logs/	one-pager - release-5-1 (v1).docx one-pager - release-5-1 (v1).pdf	API info form uploaded by Asif 22 Sep 2021, scheduled for review by API Subcommittee 24 Sep 2021 Reviewed completed and info accepted 27 Sep 2021				9/20/2021	9/21/
25	IEC Type 2 for Integrated Edge Cloud (IEC) Blueprint Family Vinothini Raju ashvin kumar Trevor Tao	TSC 2021-09-16 (Thursday) 7:00 am Pacific	No	Incubation	https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/cdlogs/	Akraino Light Weight MEC on AWS.pdf	Ashvin Kumar uploaded API info form07 Sep 2021. API subcommittee review scheduled for 10 Sep 2021 (Note - the form was originally uploaded 27Aug21 but had a file corruption issue) Review completed and info accepted As of 28 Sep 2021, waiting for API info form to be uploaded to API Subcommittee review page (Blueprint Projects API Reporting Requirements) 10 Sep 2021	https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/blueval/k8s/conformance/ https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/blueval/k8s/kube-hunter/		Missing Upstream information in IEC Type 2 Release Notes for R5		

28 Sep 2021

Here are the updated logs of the Lynis test : https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/k3s/k3s-logs/

Incubation Level Review Results:

17 Sep 2021

Vuls: Accepted with exceptions shown at:

Release 5 Vuls Exception Request

---

16 Nov 2021
Here are the updated logs of the Lynis test https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-terraform/lynis-vuls-nov-16/os/lynis/

Lynis: Accepted

---

23 Aug 2021

Kube-Hunter:

Cluster: Accepted with exceptions shown at:

Release 5 Blueprint Scanning Status

This issues must be resolved prior to maturity.

Pod: Could the same comparison between k3s and microk8s be provided for the kube-hunter pod.log as was provided for the cluster.log?

The following vulnerabilities must be fixed:

									• Access to pod's secrets Suggestion: https://blog.aquasec.com/managing-kubernetes-secrets Securing etcdsecret data is stored in etcd. By default, etcd data is not encrypted and neither are your secrets. You should enable encryption at rest, limit access to etcd to admin users only, and safely dispose of disks where etcd data was formerly stored Use SSL /TLSwhen running etcd in a cluster, you must use secure peer-to-peer communication. • Exposed PodsDescription: An attacker could view sensitive information about pods that are bound to a Node using the /pods endpoint. • KHV043 - Cluster Health DisclosureSuggestion: Disable --enable-debugging-handlers kubelet flag. • KHV007 - Specific Access to Kubernetes API Suggestion: Review the RBAC permissions to Kubernetes API server for the anonymous and default service account • KHV005 - Access to Kubernetes API • KHV002 - Kubernetes version disclosureSuggestion: Disable --enable-debugging-handlers kubelet flag.			

									• KHV050 - Read access to Pod service account token Suggestion: It is recommended to explicitly specify a Service Account for all of your workloads (serviceAccountName in Pod. Spec), and manage their permissions according to the least privilege principle. Consider opting out automatic mounting of SA token using automountServiceAccountToken: false on ServiceAccount resource or Pod.spec. • KHV044 - Privileged ContainerSuggestion: Minimize the use of privileged containers. Use Pod Security Policies to enforce using privileged: false policy.			
26	IoT Workloads at the Smart Device Edge - Predictive Maintenance (with a Thermal Imaging Camera, vibration sensors, etc.) V S Aaron Williams		No									
27	Federated Multi-Access Edge Cloud Platform Deepak Vij	TSC 2021-10-14 (Thursday) 7:00 am Pacific	Yes	Incubation		R5 Datasheet		N/A				10/14

Per e-mail 09 Oct 2021, Deepak is in process of uploading API info form

As of 13 Oct 2021, Deepak sent API info form, and expects to upload to the API subcommittee page. The form shows Karmada APIs (enabled by CRD method) offered inside Kubernetes environment, but no 3rd party APIs offered or consumed.

Deepak uploaded API info form 14 Oct 2021, API subcommittee review scheduled for 15 Oct 2021

API info reviewed and approved by API subcommittee 22 Oct 2021. The subcommittee e-mailed Deepak asking to attend 29Oct (Fri) meeting and give more explanation about ETSI MEC interfaces in their Blueprint

Wiki page with API info:

R5 API Document

Incubation Level Review Results:

21 Oct 2021

Vuls: All vulnerabilities >9.0 must be fixed or verification provided that no patch currently exists.

CVE-2019-25032

CVE-2019-25034

CVE-2019-25035

CVE-2019-25036

CVE-2019-25038

CVE-2019-25039

CVE-2019-25042

CVE-2019-9169

CVE-2020-27619

CVE-2021-27219

CVE-2021-3177

CVE-2021-3520

CVE-2020-12403

CVE-2020-36242

---

21 Oct 2021

Lynis: Need to fix the following vulnerabilities:

- Checking PASS_MAX_DAYS option in /etc/login.defs: FAILEDSuggestion: Configure maximum password age in /etc/login.defs
- Test ID AUTH-9328 (Default umask values): FAILEDSuggestion: Default umask in /etc/profile or /etc/profile.d/custom.sh could be more strict (e.g. 027)
- Test ID SSH-7440 (Check OpenSSH option: AllowUsers and AllowGroups): FAILEDSuggestion: set AllowUsers & AllowGroups
- sysctl key kernel.dmesg_restrict: FAILED Suggestion: set value to '1'
- sysctl key net.ipv4.conf.default.accept_source_route: FAILEDSuggestion: set value to '0'
- Test ID HRDN-7220 (Check if one or more compilers are installed): FAILEDFollowing compilers must be removed:
  - /usr/bin/as
  - /usr/bin/cc
  - /usr/bin/gcc

_____
_____
_____
_____

21 Oct 2021

Kube-Hunter:

Cluster: Please provide cluster.log file

Pod: Please provide pod.log file