

R21.05 Release Overview

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Planned deadlines









Milestone	Planned deadline	Actual deadline	Description of the Milestone	Comments
M0	10 Sep 2020	01 Oct 2020	<ul style="list-style-type: none"> • Declaration of participation in the simultaneous release • Blueprint proposal represented as a Jira EPIC ticket • Feature lead assigned to Jira Epic ticket • The initial version of Increment Blueprint stored on github/tf-spec/Release folder, • The blueprint presented, discussed and approved by related approvers • Release Scope Overview updated accordingly, agreed, approved by TSC • The initial version of the Release Plan for the project presented • Dependencies between projects/components/areas identified • Participating projects and initial Release scope approved by TSC 	<p>27 Aug 2020</p> <ul style="list-style-type: none"> • <i>Not all Tech Leaders pointed by Juniper are registered on Tungsten Fabric (lack of login, contact)</i> • <i>Description of blueprints not available for TF (links refer to Juniper side)</i> <p>07 Sep 2020</p> <ul style="list-style-type: none"> • <i>Features leaders not registered in LF/Jira</i> • <i>Blueprint approval process not agreed</i> • <i>Blueprint template not agreed</i> <p>17 Sep 2020</p> <ul style="list-style-type: none"> • <i>Features leaders not registered in LF/Jira</i> • <i>Blueprint approval process not agreed - rework, approvers still needed</i> • <i>Blueprint template agreed, but moved rather to tf-specs repo</i> <p>01 Oct 2020</p> <ul style="list-style-type: none"> • Most of blueprint presented/approved (15 out of 19) • TFF-12 and TFF-15 will be discussed clarified at 05 Oct 2020
M1	18 Sep 2020		<ul style="list-style-type: none"> • All dependencies between existing functionality and requested change /feature discussed and agreed by PTL and related approvers (based on Modules/Committers) • Jira Epic ticket broken down into stories in related Jira project (backlog, plan) - presented and discussed on TWS meeting • The final version of Blueprints, Release Scope and Release Plans for participating projects discussed and approved by approvers 	
M2	25 Sep 2020		<ul style="list-style-type: none"> • Technical design fully provided, agreed (documentation on the Confluence /github/tf-spec available) • Jira Epic ticket updated with link to technical design • Documentation started • Feature tests started • Feature/Functionality Freeze - Technical Design approved by relevant approvers (Modules/Committers) 	
M3	02 Oct 2020		<ul style="list-style-type: none"> • External API available for beta-tests • Jira Epic ticket updated with information about API availability (documentation link - tf repo) • Documentation in progress • Tests in progress • API Freeze confirmed by Feature Lead (comment on Jira Epic ticket with repo/commit ID link) 	Critical - must be aligned with Juniper timeline
M4	16 Oct 2020	15 Nov 2020	<ul style="list-style-type: none"> • all functionality and APIs available for testing • Jira Epic ticket updated with information about final API documentation, executed UI tests documentation • Documentation provided - confirmed by Documentation project PTL • Code freeze confirmed by Feature Lead (comment on Jira Epic ticket) - only bug fixing allowed 	From now on, discussion about release candidates may be conducted
RC0	16 Nov 2020	11 Dec 2020	<ul style="list-style-type: none"> • Release candidates agreed, approved, tested • System tests conducted, quality confirmed by CI/CD PTL (should we have some QA? Security?) • Final documentation provided, reviewed, approved by Documentation PTL • Marketing information provided to Marketing Advisory Council - confirmed by Brandon Wick? • release branch cut off - branch stabilization from now on • Release Candidates freeze, confirmed by PTL and TSC(?) 	<p>12 Nov 2020</p> <p><i>delay with testing - so date is moved till mid of December</i></p> <p><i>Release notes, documentation, diff between previous version are needed</i></p>






Deployment	04 Mar 2021	20 May 2021	official deployment executed <ul style="list-style-type: none"> • TF2011 Release Notes.pdf • Known Behavior — TungstenFabric master documentation.pdf 	08 Dec 2020 Deployment is still considered at this date (14 Dec 2020) 10 Dec 2020 *(info from TSC meeting - Nick and Alexandre) 14th December is a little shaky due to some recent issues - 21st is more realistic 04 Mar 2021 Release notes and known error added. We need to clarify Docker Hub images IDs
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Scope (based on Jira assignment to FixVersion R2011)

Release board - <https://jira.tungsten.io/secure/RapidBoard.jspa?rapidView=5&projectKey=TFF>

Key	Summary	T	Created	Updated	Assignee	Status	Description
TFF-1	Provision for a knob (per service chain) to prevent reset of AS_PATH and maintain it through a service chain		Aug 26, 2020	Mar 04, 2021	Mahesh Sivakumar	DONE	Provision for a knob (per service chain) to prevent reset of AS_PATH and maintain it through a service chain
TFF-2	Collapsed Spine L2/3 fabric		Aug 26, 2020	Mar 04, 2021	Ankur Tandon	DONE	Collapsed Spine L2/3 fabric ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e54
TFF-3	Ubuntu 20.04 Support		Aug 26, 2020	Mar 04, 2021	Andrey Pavlov	DONE	<ol style="list-style-type: none"> 1. Problem statement Add Ubuntu 20.04 Base OS Support for Contrail. 2. Proposed solution and implementation Add support Ubuntu 20.04 for all Contrail Components 3. Acceptance Criteria Standard Openstack version updates in documentation following solution testing. ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150639.html#jd0e367
TFF-4	Charmed OpenStack Ussuri Support		Aug 26, 2020	Mar 04, 2021	Anastasia Nappelbaum	DONE	<ol style="list-style-type: none"> 1. Problem statement Add support for a Charmed install of OpenStack Ussuri. OpenStack Ussuri should be supported with Ubuntu 18.04 (Bionic) and Ubuntu 20.04 (Focal). 2. Proposed solution and implementation Add support Ussuri for all Contrail Components 3. Acceptance Criteria Standard Openstack version updates in documentation following solution testing. ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e245

TFF-5	Data Plane Mac/IP Learning Mode for vRouter		Aug 26, 2020	Mar 04, 2021	sangarshan pillareddy	WITHDRAWN	Data Plane Mac/IP Learning Mode for vRouter Release notes: Support for vRouter MAC Address - IP Address Bond Learning and BFD Health Check for Pods
TFF-6	Combined FFU+ZIU upgrade from RHOSP13 /CN19xx to RHOSP16.1 /CN R2011 LTS		Aug 26, 2020	Mar 04, 2021	Gleb Galkin	DONE	Combined FFU+ZIU upgrade from RHOSP13 /CN19xx to RHOSP16.1/CN R2011 LTS ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e276
TFF-7	Optimize the workflow for LR in ERB Mode when creating IRB in the Fabric		Aug 26, 2020	Mar 04, 2021	Ankur Tandon	DONE	Optimize the workflow for LR in ERB Mode when creating IRB in the Fabric ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e63
TFF-8	Contrail-2003/TCS P0: EVPN Type5 LR : Specific remote VN routes added to the tenant VN and not the default route		Aug 26, 2020	Mar 04, 2021	Kumar Harsh	DONE	Contrail-2003/TCS P0: EVPN Type5 LR : Specific remote VN routes into added to the tenant VN and not the default route ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e120
TFF-9	BFD Priority Queue for addressing BFD/BGP sessions flapping on two computes		Aug 26, 2020	Mar 04, 2021	Naren Karjala	DONE	In scaled scenarios, it is observed that the BFD packets to the vrouter agent are handled in the PktHandler task's workqueue that has mutual dependency with dB infra task. This is causing the stalling of the BFD packets when there is huge churn in dB task related incidents. This is causing BFD to timeout on the established sessions and the interface on which the BFD is configured flaps and hence other proto's to flaps as well. https://github.com/tungstenfabric/tf-specs/blob/master/R2011/BFD_Priority_Queue_In_vRouter.md ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/topics/task/configuration/vrouter-mac-ip-learning-and-bfd-for-pods.html
TFF-10	Qualify 5220 (EVO-based) as a lean spine in ERB fabric		Aug 26, 2020	Mar 04, 2021	Ankur Tandon	DONE	Qualify 5220 (EVO-based) as a lean spine in ERB fabric ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e217
TFF-11	DCI -EVPN using L2/3 DCI OTT - Phase 0		Aug 26, 2020	Mar 04, 2021	Parag Sanghvi	DONE	DCI -EVPN using L2/3 DCI OTT - Phase 0 ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e91
TFF-13	Fabric scale and performance as per PLM requests for R2011		Aug 26, 2020	Mar 04, 2021	Atul Moghe	DONE	Fabric scale with 256 physical devices along with overlay object scale <ul style="list-style-type: none"> • 256K VMI • 4000 VN • 2000 VPG

TFF-14	3-tier/5-stage fabric - support for single-plane superspine design (based on 'lean leaf' workaround today)		Aug 26, 2020	Mar 04, 2021	Ankur Tandon	WITHDRAWN	<p>3-tier/5-stage fabric - support for single-plane superspine design (based on 'lean leaf' workaround today)</p> <p>Release note: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e198</p>
TFF-15	TF Operator Framework		Aug 26, 2020	Apr 07, 2022	Szymon Krasuski	BACKLOG	<p>Tungsten Fabric Operator project intends to provide functionality around Life Cycle Management of Tungsten Fabric deployment. Where, Tungsten Fabric operator will be extending functionalities like ease of deployment, seamless upgrades and auto scaling.</p> <p>Confluence page for the project: https://wiki.tungsten.io/display/TUN/TF+Operator+Framework</p>
TFF-16	RBAC support for fabric objects - VPG/LR		Sep 01, 2020	Mar 04, 2021	sajeesh mathew	WITHDRAWN	<p>Currently all fabric objects currently belong to Cloud admin and are not managed via RBAC. Because of this reason tenant admin cannot independently manage the fabric related resources.</p> <p>Following are the two use cases are addressed in this story</p> <p>*use case 1 :* Cloud admin shares on-boarded physical ports with tenant and tenant creates VPG .</p> <p>*use case 2 :* Cloud admin shares physical router and tenant creates logical router.</p>
TFF-18	LogicalRouter: Selecting router type on creation		Sep 11, 2020	Mar 04, 2021	Tu Pham	DONE	<p>Since TF supports logical routers with their own mode now, we should add a new option when create a LR to help users choose which mode they want it to operate on, either snat-routing or vxlan-routing.</p> <p>Also, since the SNAT checkbox has no meaning and can cause confusions when being placed next to a router type selection box, we should delete it from the LR creation form</p>
TFF-19	Support for Intel DDP in X710 and above		Oct 01, 2020	Apr 07, 2022	haji mohamed	RELEASE CANDIDATE READY	<p>Support for Intel DDP in X710 and above</p> <p>ReleaseNotes: https://www.juniper.net/documentation/en_US/contrail20/information-products/topic-collections/release-notes/topic-150638.html#jd0e142</p>

17 issues