BIER: Oxygen: Release Plan

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Introduction

In the Oxygen release the BIER project is aimed to support some functionalities like BierApp, OAM and BIER-TE configuration and management. It is compatible with BIER functionalities in Nitrogen release.

Release Deliverables

Name	Description
BIER/BIER-TE BierMan Manage	Manage BIER and BIER-TE Topology information and configuration of the BIER domain.
BIER/BIER-TE Channel Manage	Manage channel information and configuration received from multicast flow overlay protocol(BGP/PIM/MLD).
BIER/BIER-TE Service Manage	Manage the BIER and BIER-TE proceduce between controller and BFR nodes which using netconf protocol.
BIER-TE PCE Manage	Manage BIER-TE paths information and compute the optimal paths from BFIR to BFERs.
BIER/BIER-TE OAM Manage	Manage BIER OAM information and compute the optimal paths from BFIR to BFERs.
BIER/BIER-TE BierApp Manage	Manage BIER UI, show topology and configure BIER/BIER-TE and channel.
BIER/BIER-TE Driver	Provide south-bound netconf interface for BIER and BIER-TEit has implemented standard interfaceietf-bier and ietf-bier-te.

Release Milestones

• Offset: 2

Milestone	Offset 2 Date 2	Events				
МО	9/7/2017	1. Contact Freeze Projects must have declared intent to participate in Simultaneous Release Projects must have elected their Project Leads and specify a Test Contact Participating Projects must have published a candidate Release Plan for public comment (Release Plan Template) Note: the date for M0 will normally be at least one day after the TSC approves the Oxygen release plan. Note that the release plan includes details about negotiating inter-project dependencies, expectations, and incompatibilities.				
Last call for project proposals	9/28 /2017	This is the latest date a project proposal can be sent to the project-proposals list and still have the required two week public comment period before its project creation review at the last TSC meeting before the M1/M2/M3 milestone. Project proposals submitted after this date will not be able to become formal projects by M1/M2/M3 and thus will not be able to participate in the Oxygen release.				

M1	10/21 /2017	 Participating Projects must have declared their final Release Plan with all sections fully completed. Projects that need extra configuration or resources other than those available in the OpenDaylight CI infrastructure must have opened helpdesk tickets to add them. Project Checklist completed (for all projects, not just new ones). Projects may apply for a system test waiver if they think they have top-level features not requiring system test or covered by other top-level features test. Projects must specify whether they plan to use OpenDaylight CI infrastructure for system test. It is recommended to use the OpenDaylight CI infrastructure unless there is some HW or SW resource that cannot be installed there. Projects running system test in external Labs are required to report system test results in a timely fashion after release creations, e.g., weekly, RC, and formal releases. Project must get acknowledged from all projects that it depends on. 				
M2	11/21 /2017	1. Feature/Functionality Freeze • Final list of externally consumable APIs defined and documented • Projects must state for each TENTATIVE API they have (if any) whether they are formally planning to deliver it. • If so, it should be noted that it will be delivered. • If not projects requesting the API must be informed so that they can take corrective actions. • Externally consumable APIs are available at beta-quality • All inter-project dependencies are resolved (all project functionality is declared as either "In" or "Out" of this release) 2. Karaf Features defined • Instructions can be found in the Karaf:Step by Step Guide • Lach feature should be tested in every appropriate jenkins job (at least -verify, -merge, and -integration) using the "SingleFeatureTest" as defined in the Karaf step-by-step guide • Any feature repositories containing features intended for release must be added to the main features.xml file in the integration git repository as explained in the Karaf step-by-step guide • Projects must have a distribution job to verify changes in code do not impact the integration distribution (this will be automatically setup by the releng/builder group). • Features that are intended to be "top-level", "user-facing" and/or "stable" must be called out in the milestone readout. These features will have additional requirements: • Each "top-level" feature must have a developer guide section (See the documentation requirements section above) and a system test (See the integration and test requirements section above). • Each "user-facing" feature must have a user guide section (See the documentation requirements section above en lace "stable" feature must meet the requirements explained in the definitions section above. • Changing the name of a Karaf feature or removing a Karaf feature should be handled via an API freeze waiver after this point 3. Documentation Started • Identified the kinds of documentation to be provided, created AsciiDoc files for them with outlines, and committed those fi				
M3	12/21 /2017	 API Freeze: See more information in the definition above. Documentation: Project readouts MUST include a word count of each relevant .adoc file with a goal of draft documentation done. Projects are encouraged to meet the requirements to be included in maven central Project readout MUST include whether or not this was accomplished Feature Test Continues Participating projects Projects must have all extra SW configuration and resources required for system test installed in the OpenDaylight Cl⁴. More information in How To Install SW in Cl. 				
M4	1/21 /2018	 Code Freeze (bug fixes only from here as defined above) Stability branch, i.e., stable/oxygen, must be cut and local project versions bumped on master to avoid overwriting Oxygen SNAPSHOTS Follow steps 1–4 from the instructions on cutting stability branches Note: Branch cutting will occur sometime between offset 0 M4 and offset 2 M4 and may be either staggered by offsets or done all at once. See TSC meeting minutes from 7/9/2015 item 5.ac. String Freeze (all externally visible strings frozen to allow for translation & documentation) Documentation Complete: Only editing and and enhancing should take place after this point. Feature Test Complete Stable features should fulfill quality requirements listed in definitions section Projects must run at least one basic automated system test job for each top-level feature and several automated system test jobs including functionality, cluster, scalability, performance, longevity/stability for each stable feature⁴. 				

RC0	2/7/2018	 The build for RC0 will start at 23:59:59 UTC At the start of the build for RC0, all projects must be in the distribution and autorelease. Between M4 for offset 2 projects and RC0 is a two week period for projects to finish adding to Oxygen Integration Distribution and Oxygen Autorelease and for projects to fix any errors in the Oxygen Autorelease Jenkins Build Job. At the beginning of this two week period, projects are given two week notice of potential drop. Projects that have not been successfully added to the Integration Distribution and Autorelease are dropped from the release. At the end of this two week period, we release RC0 for projects to begin their initial testing. At this time, all projects participating in the release must be in the distribution and autorelease. During the RC process, regular, e.g., daily, IRC meetings may take place to identify and address issues During the RC process, blocking bugs will be tracked in bugzilla and a common spreadsheet 					
RC1	2/14 /2018	 The build for RC1 will start at 23:59:59 UTC At the start of the build for RC1, all stable/oxygen branches will be locked and only release engineering staff will be able to merge patches. During the RC process, regular, e.g., daily, IRC meetings may take place to identify and address issues During the RC process, blocking bugs will be tracked in bugzilla and a common spreadsheet 					
RC2	2/21 /2018	 The build for RC2 will start at 23:59:59 UTC At the start of the build for RC2, the release engineering staff will only merge patches that fix blocking bugs. All stable/oxygen branches will remain locked and only release engineering staff will be able to merge patches and will only do so for patches that fix blocking bugs. During the RC process, regular, e.g., daily, IRC meetings may take place to identify and address issues During the RC process, blocking bugs will be tracked in bugzilla and a common spreadsheet 					
RC3	2/28 /2018	 Participating Projects must hold their Release Reviews, including User Facing Documentation. The release review should be based on the Sample Release Review and should point to release notes based mple Release Notes. The build for RC3 will start at 23:59:59 UTC All stable/oxygen branches will remain locked and only release engineering staff will be able to merge patches and only do so for patches that fix blocking bugs. During the RC process, regular, e.g., daily, IRC meetings may take place to identify and address issues During the RC process, blocking bugs will be tracked in bugzilla and a common spreadsheet 					
Formal Oxygen Release	3/7/2018	 Formal Oxygen Release NOTE: The build to produce the formal release artifacts is likely to occur before the formal release date. After the release, except for projects that have opted-out, the release engineering staff will apply the release patch to the stable/oxygen branch and bump versions. Note: Any patches merged to stable/oxygen after the auto-release build that produces the formal release artifacts, but before the release patch and version bumps are applied will have to be reverted and re-applied after the release and version bump patches. This shouldn't happen in Oxygen as the stable/oxygen branches will have been locked since RC1. 					
SR1 (Service Release 1 aka Oxygen. 1)	4/7/2018	 First Service Release for Oxygen. NOTE: This date is provisional, but will not move earlier. Please note, event based Updates (security/critical bugs) are distinct and may occur at any point. To allow time for testing, a release candidate will be built before the service release and projects are expected to not merge patches except for blocking bugs between that time and the actual service release. Blocking bugs will be tracked via bugzilla and a spreadsheet. After the release, projects MUST apply the release patch to the stable/oxygen branch and bump versions. Unless a project opts out, this will be done automatically by the release team after the release. Note: Any patches merged to stable/oxygen after the auto-release build that produces the formal release artifacts, but before the release patch and version bumps are applied will have to be reverted and re-applied after the release and version bump patches. 					
SR2 (Service Release 2 aka Oxygen. 2)	6/7/2018	 Second Service Release for Oxygen. NOTE: This date is provisional, but will not move earlier. Please note, event based Updates (security/critical bugs) are distinct and may occur at any point. To allow time for testing, a release candidate will be built before the service release and projects are expected to not merge patches except for blocking bugs between that time and the actual service release. Blocking bugs will be tracked via bugzilla and a spreadsheet. After the release, projects MUST apply the release patch to the stable/oxygen branch and bump versions. Unless a project opts out, this will be done automatically by the release team after the release. Note: Any patches merged to stable/oxygen after the auto-release build that produces the formal release artifacts, but before the release patch and version bumps are applied will have to be reverted and re-applied after the release and version bump patches. 					

SR3 (Service Release 3 aka Oxygen. 3)	8/7/2018	 Third Service Release for Oxygen. NOTE: This date is provisional, but will not move earlier. Please note, event based Updates (security/critical bugs) are distinct and may occur at any point. To allow time for testing, a release candidate will be built before the service release and projects are expected to not merge patches except for blocking bugs between that time and the actual service release. Blocking bugs will be tracked via bugzilla and a spreadsheet. After the release, projects MUST apply the release patch to the stable/oxygen branch and bump versions. Unless a project opts out, this will be done automatically by the release team after the release. Note: Any patches merged to stable/oxygen after the auto-release build that produces the formal release artifacts, but before the release patch and version bumps are applied will have to be reverted and re-applied after the release and version bump patches. 				
SR4 (Service Release 4 aka Oxygen. 4)	9/21-11	 Fourth Service Release for Oxygen. NOTE: This date is provisional, but will not move earlier. Please note, event based Updates (security/critical bugs) are distinct and may occur at any point. To allow time for testing, a release candidate will be built before the service release and projects are expected to not merge patches except for blocking bugs between that time and the actual service release. Blocking bugs will be tracked via bugzilla and a spreadsheet. After the release, projects MUST apply the release patch to the stable/oxygen branch and bump versions. Unless a project opts out, this will be done automatically by the release team after the release. Note: Any patches merged to stable/oxygen after the auto-release build that produces the formal release artifacts, but before the release patch and version bumps are applied will have to be reverted and re-applied after the release and version bump patches. 				

³Please note that the TSC reserves the right to allow projects to enter the Simultaneous Release for a reasonable period of time after the M0 date. For example, the TSC may allow additional time if a project is delayed by the IPR Review process.

⁴Projects running system tests outside the OpenDaylight CI infrastructure are not required to run system tests and report the results on "-merge" and "-integration" Jenkins jobs, although if they can this is ideal. They are required to report system test results in a timely fashion after release creations, e.g., weekly, RC, and formal releases.

Please also note that projects that would like to spin out parts of themselves into additional projects may have those new projects join the Simultaneous Release at any point prior to M3 provided:

- 1. The TSC has been informed of this intent prior to M2
- 2. The original project's release Release Plan is apportioned between the original and new projects with no parts missing
- 3. The new projects have been proposed and approved by the TSC into one of the non-proposed life-cycle states in the normal manner by M2
- 4. The new projects have completed the requirements for all milestones before they joined the release, e.g., M0 and/or M1

Lastly, note that as the new projects are joining the release prior to M2, they must meet all the requirements for M2 at the normal time.

Externally Consumable APIs

Short Name	Description	Type (at M2)	Type (at M3)	Type (release)	Contract	Supporting Code
BIER/BIER-TE BierMan	BFR nodes & BIER-TE topology configuration and storage	Tentative	Provisional	Stable	bier-topology. yang	bierman
BIER/BIER-TE Channel	BIER-TE channel configuration and storage	Tentative	Provisional	Stable	bier-channel. yang	channel
BIER/BIER-TE OAM	BIER/BIER-TE Oam configuration and storage	Tentative	Provisional	Stable	bier-oam.yang	oam
BIER-TE FRR	BIER-TE frr configuration and storage	Tentative	Provisional	Stable	bier-frr.yang	bierman/service

Expected Dependencies on Other Projects

• controller,mdsal,NETCONF,YANGTOOL,dlux,odlparent,BGPCEP

Expected Incompatibilities with Other Projects

None

Compatibility with Previous Releases

None

Themes and Priorities

- Karaf4
 Blueprint only Activation
 Fewer Bundles/Greater code organization
 MDSAL based realm

Requests from Other Projects

None

Test Tools Requirements

None

Other

N/A