BGP: Lithium: Release Plan

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Introduction

During the Lithium code sprint we will focus more on BGP protocol, as most of the features will be done for BGP. We plan on to do some major structure refactoring, to reduce complexity and improve readability of the code. Secondary goals are keeping current with drafts as they evolve, bug fixes and performance/scale improvements.

Release Deliverables

Name	Description
BGP	 Implementation of BGP Flowspec Implementation of graceful restart Support for segment routing for BGP Implementation of various smaller RFCs
PCEP	 Implementation of secure transport via PCEP Expansion of base PCEP stack with monitoring tools for Path Computation Element Updating drafts to newer versions
Models	Addition to base PCEP model: PCEP monitoring tools

Release Milestones

Milestone	Offset 1 Date	Deliverables						
M1	12/18/2014	Name	Status	Description				
		Release Plan	Done	Candidate Release Plan				
		PCEP - RFC5886	Done	Implement RFC5886 (A Set of Monitoring Tools for Path Computation Element (PCE)-Based Architecture)				
		PCEP - segment routing draft	Done	Update PCEP segment routing draft implementation to newest version				
		BGP - RFC4486	Done	Implement RFC4486 (Subcodes for BGP Cease Notification Message)				
		BGP - RFC5492	Done	Implement RFC5492 (Capabilities Advertisement with BGP-4)				

M2	1/29/2015	Name	Status	tatus Description					
		Release Plan	Done	one Final Release Plar			ın		
		BGP - RFC6286	Done Implement RFC628				86 (Autonom	nous-System-Wide Unique BGP Identifier for BGP-4)	
		BGP - RFC5004	Done	Done Implement RFC5004 (Avoid BGP Best Path Transitions from One External to And					
		BGP - RFC5575	Done	Done Implement RFC5575				ecification)	
M3	3/5/2015	Name					Status	Description	
		Feature Freeze						•	
		BGP - draft-gredler-idr-bgp-ls-segment-routing-extension					Done	BGP Link-State extensions for Segment Routing	
		PCEP - draft-ietf-p	ce-pceps-0	2			Done	Secure Transport for PCEP	
		BGP - RFC7311	BGP - RFC7311					Implement RFC7311 (The Accumulated IGP Metric Attribute for BGP)	
		BGP - RFC4724					Cancelled	Implement RFC4724 (Graceful Restart Mechanism for BGP)	
M4	4/2/2015	Name			Stat	us		Description	
		API Freeze							
		Remove dependency on protocol framework						lify usage of netty and gradually remove dependency on oller/protocol-framework	
		Refactor pcep-api/impl and bgp-rib-api/impl BGP				or	Move session components outside. Rename pcep modules.		
M5	4/30/2015	Name		St	Status Description		Description		
		Code Freeze							
		BGP validator	Ca		Cancelled Create		ate semantic BGP message validator		
		Documentation	С		Done Updat		date wiki documentation to reflect changes/new features.		
		PCEP - deprecate 02	stateful- Do		ne	Mark as deprecated pce-stateful-02 and crabbe-initiated-00 implementations.			
RC0	5/28/2015	Name	Name Status D		escription				
		Deliverable Name	Deliverab	Deliverable Description		1			
RC1	6/4/2015	Name	S	Status		D	escription		
		Deliverable Name	Deliverab	Deliverable Description		1			
RC2	6/11/2015	Name	Description						
		Release Review	Release Review Description			iption			
		Deliverable Name	Deliverable Description			1			
RC3	6/18/2015	Name	D)escri	iption				
		Release Review	Release Review Description			iption			
		Deliverable Name	Deliverable Description				-		

Formal Release	Name Deliverable Name		Status	Description	
			Deliverable Description		

Externally Consumable APIs

- conceptsutil
- bgp-parser-api
- bgp-parser-spibgp-rib-apibgp-rib-spi

- pcep-api
- pcep-spi
- · pcep-topology-api

- pcep-topology-spipcep-tunnel-apiprogramming-api
- · programming-spi
- programming-topology-apiprogramming-tunnel-api
- topology-api
- topology-tunnel-api
- rsvp-api

Expected Dependencies on Other Projects

None listed

Requests from Other Projects

None listed

Compatibility with Previous Releases

Deprecated: support for PCEP stateful in version 02. Deprecated: python PCC library

Themes and Priorities

Other

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