

ALTO: Carbon: Release Plan

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Introduction

In the Carbon release the ALTO project is aimed to support some to-be-standard functionalities from the IETF ALTO Working Group. Also, simultaneous efforts must be made to improve the code quality of the existing components.

- Functionalities
 - *Incremental update*, see [\[1\]](#)
 - *Multicost*, see [\[2\]](#)
 - "Routing state abstraction", see [\[3\]](#)
- Code quality
 - Migrate to blueprint, see [the introduction to blueprint](#)
 - Use a unified namespace for ALTO services to simplify the migration when an experimental feature becomes a standard
 - Increase the test coverage to at least 40% (current is 21%), see [sonar report](#)

Release Deliverables

Only new deliverables are listed here, see [ALTO:Main](#) and visit corresponding release plans for deliverables from previous releases.

Name	Description
alto-core	• Add support for <i>incremental update</i> and <i>multicost</i> in existing models
alto-basic	• Support <i>incremental update</i> and <i>multicost</i> in existing services • Provide an anchor-based map generation service
alto-extension	• Provide the <i>incremental update</i> service • Provide the "Routing state abstraction" service

Release Milestones

- **Offset: 2**

Milestone	Offset X Date	Deliverables		
M1	11/1/2016	Name	Description	Status
		Release Plan	Candidate Release Plan	Done
M2	12/8/2016	Name	Description	Status
		Release Plan	Final Release Plan	

M3	2/2/2017	Name	Description
		Feature Freeze	
		Namespace migration	Migration of existing namespaces to use a unified prefix.
M4	3/2/2017	Name	Description
		API Freeze	
		Model update	Revised models to allow new extensions as stated in the introduction.
M5	3/30/2017	Name	Description
		Code Freeze	
		New functionalities	Implementation of the <i>incremental update</i> and <i>multicost</i> extensions.
		Test coverage	Test coverage improved to at least 35%.
RC0	4/13/2017	Name	Description
		Documentation	Update the documentation to the latest release
		Code quality	Test coverage improvement and bug fixes.
RC1	4/20/2017	Name	Description
		Documentation	Update the documentation to the latest release
		Code quality	Test coverage improvement and bug fixes.
RC2	4/27/2017	Name	Description
		Release Review	Release Review Description
		Extension Distribution	Improved documentation and test coverage.
RC3	5/4/2017	Name	Description
		Release Review	Release Review Description
Formal Release	5/11/2017	Name	Description
		Deliverable Name	Deliverable Description

Externally Consumable APIs

- Network map service (Stable)
 - [\[alto-model-networkmap.yang\]](#)
- Cost map service (Stable)
 - [\[alto-model-costmap.yang\]](#)
- Endpoint cost service (Stable)
 - [\[alto-model-endpointcost.yang\]](#)
- Endpoint property service (Stable)
 - [\[alto-model-endpointproperty.yang\]](#)
- Configurable map service (Stable)
 - [\[alto-model-config.yang\]](#)
 - [\[alto-manual-maps.yang\]](#)
 - [\[alto-networkmap-config.yang\]](#)
 - [\[alto-costmap-config.yang\]](#)
 - [\[alto-endpointcost-config.yang\]](#)
 - [\[alto-endpointproperty-config.yang\]](#)

- Simple IRD service (Stable)
 - [\[alto-simple-ird.yang\]](#)
- Simple path management service (Stable)
 - [\[alto-spce.yang\]](#)
- Incremental update (In progress)
- Routing state abstraction (In progress)

Expected Dependencies on Other Projects

- Depends on [OpenFlow Plugin](#), [L2Switch](#) and all their dependent projects.

Expected Incompatibilities with Other Projects

- Not compatible with ``odl-l2switch-switch``.

Compatibility with Previous Releases

- Both namespace migration and the adoption of *incremental update* and *multicost* can lead to incompatibilities with previous releases.
- We would provide a script to help with the migration.

Themes and Priorities

Requests from Other Projects

N/A

Test Tools Requirements

- OpenDaylight CSIT Framework
- Mininet

Other