Release Planning (legacy)

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  - 1.1 El-Alto Release Planning
  - 1.2 El-Alto Release Calendar
  - 1.3 El-Alto Release Calendar (tabular)
- **2 Dublin Release**
  - 2.1 Dublin Release Planning - NOT UPDATED, please refer to the Dublin Release Calendar
  - 2.2 Dublin Release Calendar
- **3 Casablanca Maintenance Release**
- **4 Casablanca Release**
  - 4.1 Casablanca Release Planning
  - 4.2
  - 4.3 Casablanca Release Calendar
- **5 Beijing Release**
  - 5.1 Beijing Release Planning
  - 5.2 Beijing Release Calendar
- **6 Amsterdam Release**
  - 6.1 Amsterdam Release Planning
  - 6.2 Amsterdam Release Calendar
  - 6.3 Amsterdam Release Dependencies
    - 6.3.1 API Dependencies
  - 6.4 Casablanca Release Dependencies
    - 6.4.1 Kubernetes Deployment Dependencies
- **7 ONAP Release Lifecycle**

El-Alto Release

El-Alto Release Planning

The El-Alto release content is being planned. Currently the proposed contents include:

- Refactoring
- JIRA Backlog Reduction (defects, etc.)
- Vulnerability issues
- Test Coverage including jS
- Test Automation & CI/CD pipeline
- Deployment procedure
- Documentation

The release contents will be prioritized at the 2019 El-Alto DDF in Stockholm.

**TSC priorities:**

1. Security
2. Documentation
3. Don't break the build

El-Alto Release Calendar
<table>
<thead>
<tr>
<th>Milestone</th>
<th>Date</th>
<th>Deliverable</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dev1 Start</td>
<td>15 Jul 2019</td>
<td>Vetted Jira list for the EarlyDrop (ED)</td>
<td>List of planned jiras for the development sprint (M1)</td>
</tr>
<tr>
<td>M1 checkpoint</td>
<td>18 Jul 2019</td>
<td>TSC reviews and sign-off on intended El Alto Content</td>
<td>Content defined by fixVersion = “El Alto Release”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Early Drop content defined by: label contains “El_Alto_Early_Drop”</td>
</tr>
<tr>
<td>Test Plan Review</td>
<td>25 Jul 2019</td>
<td>Early drop and Final release test plan review and sign off by TSC</td>
<td></td>
</tr>
<tr>
<td>Test1 Start</td>
<td>29 Jul 2019</td>
<td>Test to deliver ED</td>
<td>Phased integration and test plan. (M4_early_drop)</td>
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<td></td>
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<td></td>
<td>Run daily sanity on El Alto released images, and start vFW, vLB and vCPE use case testing</td>
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<td>All containers for ED are due to be delivered to testing/integration</td>
</tr>
<tr>
<td>Dev1 End</td>
<td>02 Aug 2019</td>
<td>Priority 0 vulnerabilities addressed</td>
<td>List of completed jiras due</td>
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<td></td>
<td>API documentation complete</td>
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<td>Arch changes reviewed and documented</td>
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<tr>
<td>Dev2 Start</td>
<td>05 Aug 2019</td>
<td>Fixes only to support ED</td>
<td>Integration team drives bug list priority. All other development deferred check in until Dev3</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Integration will work with dev teams to close highest/high priority jiras discovered during integration test. All integration tests should be finished three days before ED release so we will have time to update release note, put tag on branches, etc.</td>
</tr>
<tr>
<td>Dev2 End</td>
<td>16 Aug 2019</td>
<td>ED released</td>
<td>Complete release - includes rel_notes, named release, branch. (M2/M3 milestone)</td>
</tr>
<tr>
<td>Test1 End</td>
<td>16 Aug 2019</td>
<td>ED released</td>
<td>Complete release - includes rel_notes, named release, branch. (Sign_off_early_drop)</td>
</tr>
<tr>
<td>EarlyDrop</td>
<td>21 Aug 2019</td>
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<tr>
<td>Dev3 Start</td>
<td>19 Aug 2019</td>
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</table>
Dublin Release

Dublin Release Planning - **NOT UPDATED, please refer to the Dublin Release Calendar**

## Dublin Release Calendar

<table>
<thead>
<tr>
<th>Review</th>
<th>Milestone</th>
<th>Date</th>
<th>Events</th>
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<tbody>
<tr>
<td>Last day for Service Providers to submit their priorities for Dublin</td>
<td></td>
<td>Nov 1, 2018</td>
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<tr>
<td>Last day for overall providing use case/functional requirements as a candidates for Dublin</td>
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<td>Nov 15, 2018</td>
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<tr>
<td>Event Description</td>
<td>Category</td>
<td>Date</td>
<td>Details</td>
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</tbody>
</table>
| Kick-Off (Open Intent To Participate)                                             | M0       | Nov 15, 2018 | Opening of Release Planning  
- For existing Projects:  
  - Every existing Beijing projects that plan to be part of Casablanca Release must email TSC to notify their intention through the ONAP TSC mailing list  
- For New Projects:  
  - New Candidate project must fill out “Project Proposal Template”  
  - Post the proposal in the wiki at Proposed Projects  
  - Inform ONAP TSC of their intention through the ONAP TSC mailing list |
| Last day for getting all of the ONAP Platform requirements (high level impacts for architecture, security, projects, S3P etc.) and getting a single consolidated list so all of the projects have full picture of what is required from them. |          | Nov 29, 2018 | By this date, all ONAP use cases/ ONAP platform functional requirements (high level impacts) need to be discussed with a different projects, and demanded scope of development should be clear to the projects:  
  - Template must be filled out [https://wiki.onap.org/display/DW/Use+Case+Tracking+Template](https://wiki.onap.org/display/DW/Use+Case+Tracking+Template)  
  (link to current use cases/functional requirements proposals description: Release 4 (Dublin) Use Cases and functional requirements) |
| Project Submission Closure                                                        |          | Nov 30, 2018 | Last Date to announce Intention to Participate |
| Project Proposal Approved                                                         |          | Dec 13, 2018 | Use Case Analysis and Potential impacts to VNF Requirements identified.  
  The TSC has a goal to review and provide its disposition on all submitted projects proposal.  
  This is the last date for TSC to formally approved New Project Proposal |
| Project Planning Closure                                                          |          | Jan 10, 2019 | Project Planning submission, by this date all projects have submitted in wiki their Release Planning materials.  
  That will give everyone to time to understand project scope and dependencies. |
| Planning                                                                        | M1       | Jan 24, 2019 | Planning process complete, all Project Deliverables are defined (including functional architecture, scope, dependencies,...)  
  Integration Team has defined the vendor Equipments list and the End 2 End Release Test Cases are fully defined.  
  The Document and Training teams have defined their plans.  
  The packaging and installation strategy is defined.  
  initial impacts to VNF Requirements (EPICs) identified by use cases and ONAP platform component projects.  
  To pass the M1 milestones, all approved projects have to:  
  1. Fill out the Release Planning Template  
  2. Fill out the Deliverables for Planning Milestone Checklist Template  
  3. Post these 2 project deliverables in wiki. |
| Functionality freeze                                                              | M2       | Feb 21- 28, 2019 | Functionality freeze, no new visible functionality is to be added to the current ONAP release.  
  Each Project team has defined and documented their Functional Test Cases.  
  The vendor equipments have been delivered.  
  A stable document describing the API is documented and available in wiki.  
  Base set of impacts to VNF Requirements identified by use cases/ project. |
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<th>Task</th>
<th>Milestone</th>
<th>Dates</th>
<th>Details</th>
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<tbody>
<tr>
<td>API Freeze</td>
<td>M3</td>
<td>March 14, 2019</td>
<td><strong>API/data model freeze.</strong> Mark the end of API and Data Model change. API and Data Model are now Frozen. Any changes to the API must be brought to the knowledge of the TSC for review and approval. 50% of Functional Test Case are automated.</td>
</tr>
<tr>
<td>Code Freeze</td>
<td>M4</td>
<td>April 4, 2019 to April 11, 2019</td>
<td><strong>Code Freeze.</strong> Mark the end of the Features coding. Jira issues are either fixed in the current release or assigned to next release. 100% of Functional Test Case are automated. End 2 End Release Test Cases are implemented (Integration Team). All new VNF Requirements planned for the release reviewed and implemented in VNF Requirements project.</td>
</tr>
<tr>
<td>Integration</td>
<td>RC0</td>
<td>April 25, 2019 to May 2nd, 2019</td>
<td>Release Candidate 0 RCs are to ensure proper alignment and execution on End 2 End Release Test Cases and End 2 End functional Test Cases. Project Team focused its effort on: 1. supporting integration testing (complete Health Check and Pair Wise Testing) 2. closing high priority defects 3. supporting Documentation team</td>
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<tr>
<td></td>
<td>RC1</td>
<td>May 9th, 2019 to May 16th, 2019</td>
<td>Release Candidate 1</td>
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<tr>
<td>Marketing: Outline for written content agreed with LF marketing</td>
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<td>May 16, 2019</td>
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<tr>
<td>Marketing: Near-final draft for written content</td>
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<td>May 23, 2019</td>
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<td>RC2</td>
<td>May 23, 2019 to May 30th, 2019</td>
<td>Release Candidate 2</td>
</tr>
<tr>
<td>Marketing: Content freeze</td>
<td></td>
<td>May 30, 2019</td>
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<tr>
<td>Marketing: New video content</td>
<td></td>
<td>May 30, 2019</td>
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<tr>
<td>Marketing: Public announcement</td>
<td></td>
<td>June 13th, 2019</td>
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</tbody>
</table>

**Casablanca Maintenance Release**

The main timeline is proposed below. The full deck as discussed at PTL meeting on Dec 3 is [here](#). Scope of the MR will be finalized at "M1" on Dec 10, 2018.
Casablanca Release

This release calendar below has been presented during ONAP Break out session at ONS Los Angeles Developers on March 26, 2018.

Casablanca Release Planning

Link to PDF
### Casablanca Release Calendar

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<td>M0</td>
<td>May 25, 2018</td>
<td>Opening of Release Planning</td>
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<td></td>
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<td>- For existing Projects:</td>
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<td>- Inform ONAP TSC of their intention through the ONAP TSC mailing list</td>
</tr>
<tr>
<td>Project Submission Closure</td>
<td></td>
<td>June 07, 2018</td>
<td>Last Date to announce Intention to Participate</td>
</tr>
<tr>
<td>Project Proposal Approved</td>
<td></td>
<td>June 14, 2018</td>
<td>The TSC has a goal to review and provide its disposition on all submitted projects proposal. This is the last date for TSC to formally approved New Project Proposal</td>
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<td>Project Planning Closure</td>
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<td>June 21, 2018</td>
<td>Project Planning submission, by this date all projects have submitted in wiki their Release Planning materials.</td>
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<td>That will give everyone to time to understand project scope and dependencies.</td>
</tr>
<tr>
<td>Planning</td>
<td>M1</td>
<td>June 28, 2018</td>
<td>Planning process complete, all Project Deliverables are defined (including functional architecture, scope, dependencies,...)</td>
</tr>
<tr>
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<td>Integration Team has defined the vendor Equipments list and the End 2 End Release Test Cases are fully defined.</td>
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<td>3. Post these 2 project deliverables in wiki.</td>
</tr>
<tr>
<td>Functionality freeze</td>
<td>M2</td>
<td>July 26, 2018</td>
<td>Functionality freeze, no new visible functionality is to be added to the current ONAP release.</td>
</tr>
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<td>August 23, 2018</td>
<td>API/data model freeze. Mark the end of API and Data Model change. API and Data Model are now Frozen.</td>
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<td>Any changes to the API must be brought to the knowledge of the TSC for review and approval.</td>
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<td>50% of Functional Test Case are automated.</td>
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<tr>
<td>Code Freeze</td>
<td>M4</td>
<td>Sept 20, 2018</td>
<td>Code Freeze. Mark the end of the Features coding.</td>
</tr>
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<td>Jira issues are either fixed in the current release or assigned to next release.</td>
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<td>End 2 End Release Test Cases are implemented (Integration Team).</td>
</tr>
<tr>
<td>Integration</td>
<td>RC0</td>
<td>Oct 11, 2018</td>
<td>Release Candidate 0</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>RCs are to ensure proper alignment and execution on End 2 End Release Test Cases and End 2 End functional Test Cases.</td>
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<td>3. supporting Documentation team</td>
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<tr>
<td></td>
<td>RC1</td>
<td>Oct 25, 2018</td>
<td>Release Candidate 1</td>
</tr>
<tr>
<td>Marketing: Outline for written content</td>
<td></td>
<td>Nov 1, 2018</td>
<td>agreed with LF marketing</td>
</tr>
</tbody>
</table>
Marketing: Near-final draft for written content
Nov 8, 2018

Marketing: Release Candidate 2
Nov 8, 2018
Nov 27, 2018
Release Candidate 2
TSC decision on Nov 8 to postpone RC2 to Nov 27.

Marketing: Content freeze
Nov 15, 2018

Marketing: New video content
Nov 15, 2018

Sign-Off
Release Delivery
Nov 15, 2018
Nov 30, 2018
Casablanca Release Sign-Off
TSC decision on Nov 8 to postpone Sign-Off to Nov 30.

Marketing: Public announcement
Nov 29, 2018

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Beijing Release

This release calendar below has been approved by TSC at Santa Clara Developers F2F on Dec 13, 2017.

Beijing Release Planning

ONAP Beijing Release Calendar (TSC Approved)

- Review
- Milestone
- Date
- Events

Beijing Release Calendar

Link to [ONAP Beijing Release Planning (PDF)](link) as presented at Paris F2F, Sept 2017

Update [ONAP Beijing Release Planning (PDF)](link) as presented at Santa Clara F2F, Dec 2017
<table>
<thead>
<tr>
<th>Event</th>
<th>M0</th>
<th>M1</th>
<th>M2</th>
<th>M3</th>
<th>M4</th>
<th>RC0</th>
<th>RC1</th>
<th>RC2</th>
<th>Sign-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick-Off (Open Intent To Participate)</td>
<td>November 16, 2017</td>
<td>Opening of Release Planning</td>
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<tr>
<td>Project Submission Closure</td>
<td>November 30, 2017</td>
<td>Last Date to announce Intention to Participate</td>
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<tr>
<td>Project Proposal Approved</td>
<td>December 13, 2017</td>
<td>The TSC has a goal to review and provide its disposition on all submitted projects proposal. This is the last date for TSC to formally approved New Project Proposal</td>
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<td>Project Planning Closure</td>
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<td>Project Planning submission, by this date all projects have submitted in wiki their Release Planning materials. That will give everyone to time to understand project scope and dependencies.</td>
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<td>Planning</td>
<td>Jan 18, 2018</td>
<td>Planning process complete, all Project Deliverables are defined (including functional architecture, scope, dependencies,...)</td>
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<td>Integration</td>
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<td>RC0 April 19, 2018</td>
<td>Release Candidate 0</td>
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<td>RCs are to ensure proper alignment and execution on End 2 End Release Test Cases and End 2 End functional Test Cases.</td>
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<td>Project Team focused its effort on:</td>
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<td></td>
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<td>1. supporting integration testing</td>
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<td>2. closing high priority defects</td>
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<td>3. supporting Documentation team</td>
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<td>RC1 May 3, 2018</td>
<td>Release Candidate 1</td>
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<td>RC2 May 17, 2018</td>
<td>Release Candidate 2</td>
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<td></td>
<td></td>
<td>May 31, 2018</td>
<td>TSC decision to postpone RC2 review by 2 weeks (Topic 3, section am)</td>
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<td>Sign-Off Release Delivery May 24, 2018</td>
<td>Beijing Release Sign-Off</td>
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<td>June 7, 2018</td>
<td>TSC decision to postpone RC2 review by 2 weeks (Topic 3, section am)</td>
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</tbody>
</table>

**Amsterdam Release**
Amsterdam Release Planning

ONAP Amsterdam Release Planning

<table>
<thead>
<tr>
<th>Month</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
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<td>FP T</td>
<td>R1</td>
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<td>FP T</td>
</tr>
</tbody>
</table>

**National Holidays**
- 25/04/17
- 05/05/17
- 06/05/17
- 04/07/17
- 15/08/17
- 22/08/17
- 29/08/17
- 05/09/17
- 12/09/17
- 23/10/17
- 20/11/17
- 25/11/17

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick-Off</td>
<td>May 4, 2017</td>
<td>Planning process opens for all projects to submit their intent.</td>
</tr>
<tr>
<td>Project Submitted</td>
<td>May 15, 2017</td>
<td>All projects candidate for the first ONAP Release have to: 1. use the Project Proposal Template 2. post the proposal in the wiki at Proposed Projects 3. inform ONAP TSC of their intention through the ONAP TSC mailing list.</td>
</tr>
<tr>
<td>Project Approved</td>
<td>June 1, 2017</td>
<td>The TSC has a goal to review and provide its disposition on all submitted projects proposal.</td>
</tr>
<tr>
<td>Planning</td>
<td>June 29, 2017</td>
<td>Planning process complete, all Project Deliverables are defined (including functional architecture, scope, dependencies,...) Integration Team has defined the vendor Equipments list and the End 2 End Release Test Cases are fully defined. The Document and Training teams have defined their plans. The packaging and installation strategy is defined. To pass the M1 milestones, all approved projects have to: 1. Fill out the Release Planning Template 2. Fill out the Deliverables for Planning Milestone Checklist Template 3. Post these 2 project deliverables in wiki.</td>
</tr>
<tr>
<td>Functionality freeze</td>
<td>August 03, 2017</td>
<td>Functionality freeze, no new visible functionality is to be added to the current ONAP release. Each Project team has defined and documented their Functional Test Cases. The vendor equipments have been delivered. A stable document describing the API is documented and available in wiki.</td>
</tr>
</tbody>
</table>

Link to [ONAP Amsterdam Release planning (PDF)](#).

**Amsterdam Release Calendar**

- **Review**
  - **Kick-Off (Open Intent To Participate)**
    - **M0**
    - **May 4, 2017**
    - Planning process opens for all projects to submit their intent.
  
  - **Project Submitted**
    - **M1**
    - **May 15, 2017**
    - All projects candidate for the first ONAP Release have to:
      1. use the Project Proposal Template
      2. post the proposal in the wiki at Proposed Projects
      3. inform ONAP TSC of their intention through the ONAP TSC mailing list.
  
  - **Project Approved**
    - **June 1, 2017**
    - The TSC has a goal to review and provide its disposition on all submitted projects proposal.
  
  - **Planning**
    - **M1**
    - **June 29, 2017**
    - Planning process complete, all Project Deliverables are defined (including functional architecture, scope, dependencies,...) Integration Team has defined the vendor Equipments list and the End 2 End Release Test Cases are fully defined. The Document and Training teams have defined their plans. The packaging and installation strategy is defined. To pass the M1 milestones, all approved projects have to:
      1. Fill out the Release Planning Template
      2. Fill out the Deliverables for Planning Milestone Checklist Template
      3. Post these 2 project deliverables in wiki.
  
  - **Functionality freeze**
    - **M2**
    - **August 03, 2017**
    - Functionality freeze, no new visible functionality is to be added to the current ONAP release. Each Project team has defined and documented their Functional Test Cases. The vendor equipments have been delivered. A stable document describing the API is documented and available in wiki.
<table>
<thead>
<tr>
<th>Event</th>
<th>Stage</th>
<th>Date</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>API Freeze</td>
<td>M3</td>
<td>August 24, 2017</td>
<td><strong>API/data model freeze.</strong> Mark the end of API and Data Model change. API and Data Model are now Frozen. Any changes to the API must be brought to the knowledge of the TSC for review and approval. 50% of Functional Test Case are automated.</td>
</tr>
<tr>
<td>Code Freeze</td>
<td>M4</td>
<td>Sept 28, 2017</td>
<td><strong>Code Freeze.</strong> Mark the end of the Features coding. Jira issues are either fixed in the current release or assigned to next release. 100% of Functional Test Case are automated. End 2 End Release Test Cases are implemented (Integration Team).</td>
</tr>
<tr>
<td>Integration</td>
<td>RC0</td>
<td>Oct 12, 2017</td>
<td>Release Candidate 0 RCs are to ensure proper alignment and execution on End 2 End Release Test Cases and End 2 End functional Test Cases. Project Team focused its effort on: 1. supporting integration testing 2. closing high priority defects 3. supporting Documentation team</td>
</tr>
<tr>
<td></td>
<td>RC1</td>
<td>Oct 26, 2017</td>
<td>Release Candidate 1</td>
</tr>
<tr>
<td></td>
<td>RC2</td>
<td>Nov 9, 2017</td>
<td>Release Candidate 2</td>
</tr>
<tr>
<td>Sign-Off</td>
<td></td>
<td>Nov 16, 2017</td>
<td>Amsterdam Release Sign-Off</td>
</tr>
</tbody>
</table>

**Amsterdam Release Dependencies**

**API Dependencies**

The source of information to generate this information are the data point gathered into the project Release Planning template.

The graph below represents API dependencies for M1 Release Planning projects.

More info on how to generate the graph are available.
Casablanca Release Dependencies

Kubernetes Deployment Dependencies

The following are directly from the init containers in all the charts from the 20181208 baseline - raw data that needs to be put into a 2 dimensional graph

Note: these dependencies are at the lowest deployment level and represent a partial view of the REST/API dependency tree - they do not reflect any compile time or runtime/injection code dependencies (pom.xml)

Use for any containers stuck at the 0/1 Init:0/1 stage - these are likely waiting on dependent containers
check the --container-name kv pair in StatefulSet/Deployment.yaml:spec:intiContainers:args
or the corresponding defined chart/container names in values.yaml:config:
106 sets in 87 files

overall order
aaf<-aai
aaf<-oof
music<-oof
dmaap<-aai
dmaap<-pomba
dmaap<-sdnc
consul<-sdnc
sdc<-sdnc
consul<-dcaegen2
msb<-dcaegen2
aaf
  aaf-cm
  aaf-locate
  aaf-fs
  aaf-locate
  aaf-gui
  aaf-cm
  aaf-hello
  aaf-locate
  aaf-service
  aaf-oauth
  aaf-locate
  aaf-service
  aaf-cs
  aaf-sms
  aaf-sms-quorumclient (via job)
  aaf-sms-vault
  aaf-sms-vault-backend

aai
  aai
  aai-resources
  aai-traversal
  aai-graphadmin
  aai-champ
  aai-cassandra
  aai-graphadmin
  aai-cassandra
  aai-resources
  aai-cassandra
  aai-sparky-be
  aai-elasticsearch
  aai-search-data
  aai
  aai-spike
  message-router-kafka
  aai-traversal
  aai
  aai-cassandra
  aaf-locate (conditional)

appc
  appc
  mariadb-galera
  appc-ansible-server
    appc

clamp
  clamp
  mariadb
  clamp-dash-kibana
  clamp-dash-es
  clamp-dash-logstash
  clamp-dash-es

common
  controller-blueprints
  mariadb-galera
  mongo
  *-nfs-provisioner
  mysql
  *-nfs-provisioner
dgbuilder
  network-name-gen
  mariadb-galera

dcaegen2
  dcae-bootstrap
  dcae-cloudify-manager
  consul-server
pomba-search-data
pomba-search-data
pomba-elasticsearch

portal
  portal-widget
  portal-db
  portal-sdk
  portal-db

sdc
  sdc-dcae-be
    common.name
    sdc-be
  sdc-dcae-dt
  sdc-dcae-be
  sdc-dcae-fe
  sdc-dcae-be
  sdc-dcae-tosca-lab
  sdc-dcae-be
  sdc-fe
  sdc-kb
  sdc-wfd-fe
  sdc-wfd-be

sdnc
  mysql
  sdnc-ansible-server
  sdnc
dmaap-listener
  mysql
  sdnc
  message-router
  sdnc-portal
  mysql / sdnc-db
  sdnc
  sdnc-prom
  sdnc
  consul
ueb-listener
  mysql
  sdnc
  sdc-be
  message-router

so
  so
  mariadb
  so-bpmn-infra
    mariadb
  so-catalog-db-adapter
    mariadb
  so-openstack-adapter
    mariadb
  so-request-db-adapter
    mariadb
  so-sdc-adapter
    mariadb
  so-sdc-controller
    mariadb
  so-vfc-adapter
    mariadb

vfc
  vfc-catalog
  vfc-db
  vfc-ems-driver
    mariadb // commented
  vfc-generic-vnf-mdriver
    mariadb // commented
ONAP Release Lifecycle

- Release Lifecycle. It provides a description of each of the above milestones and the activities to be implemented.