

OCP Plugin: Carbon: Release Plan

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Introduction

Release Deliverables

| Name | Description |
|--------------------------|--|
| Bugfixing & testing | Bugfixing & testing throughout the release |
| Clean Up Existing Code | Clean up existing code and make available to project team members |
| OCP Elementary Functions | Handling of OCP request/response messages for the following OCP elementary functions: 1. Device Management: Health Check, Set Time, RE Reset 2. Config Management: Object Parameter Reporting, Object Parameter Modification 3. Object Lifecycle: Object Creation, Object Deletion 4. Object State Management: Object State Reporting, Object State Modification 5. Fault Management: Fault Reporting |
| Spontaneous Indication | Handling of OCP indication messages (terminated at Southbound without further propagation) |
| RE Resource Model | Hosted in the MD-SAL Data Store (accessible via RESTCONF) |
| MD-SAL Notifications | Publishes the device-connected, device-disconnected and alignment-completed notifications |
| Supported Version | Support for OCP v4.1.1 |
| Unit Tests | Unit test to achieve 80% line coverage and 60% branch coverage |
| Karaf Features | OCP Plugin and OCP Protocol Library installable as karaf features |
| Documentation | All required documentation |

Release Milestones

| Milestone | Offset 1 Date | Deliverables | | |
|-----------|------------------|------------------------|---------------|------------------------|
| M1 | 10/27 /2016 | Name | Status | Description |
| | | Project Lead elected | Done | Project Lead election |
| | | Test Contact specified | Done | Test Contact announce |
| | | Candidate Release Plan | Done | Candidate Release Plan |

| M2 | 12/1 /2016 | <table><tr><th>Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td>Release Plan</td><td>Done</td><td colspan="2">Final Release Plan</td></tr><tr><td>Project setup</td><td>Done</td><td colspan="2">Project Checklist completed</td></tr><tr><td>OpenDaylight CI</td><td>Done</td><td colspan="2">OpenDaylight CI infrastructure usage for system test</td></tr><tr><td>Project acknowledged</td><td>Done</td><td colspan="2">Project acknowledged from all projects that it depends on</td></tr></table> | | | Name | Status | Description | | Release Plan | Done | Final Release Plan | | Project setup | Done | Project Checklist completed | | OpenDaylight CI | Done | OpenDaylight CI infrastructure usage for system test | | Project acknowledged | Done | Project acknowledged from all projects that it depends on | | | | | | | |
|---------------------------|------------|--|---|---|---|--------|-------------|-------------|---------------------|----------------------|--------------------|---|---------------|----------------------------|-----------------------------|--|-----------------|-----------------------|--|---|----------------------------|---------------------------|---|--|--|------------------------|------|-----------------------|---|--|
| | | Name | Status | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Release Plan | Done | Final Release Plan | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Project setup | Done | Project Checklist completed | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | OpenDaylight CI | Done | OpenDaylight CI infrastructure usage for system test | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project acknowledged | Done | Project acknowledged from all projects that it depends on | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1/19 /2017 | <table><tr><th>Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td>Functionality Freeze</td><td>Done</td><td colspan="2">Final list of externally consumable APIs defined and documented</td></tr><tr><td>Karaf Features defined</td><td>Done</td><td colspan="2">Karaf Features defined</td></tr><tr><td>Documentation Started</td><td>Done</td><td colspan="2">Identified the kinds of documentation to be provided, created AsciiDoc files for them with outlines, and committed those files in an appropriate location</td></tr><tr><td>Integration & System Test</td><td>Done</td><td colspan="2">Simple system test on a karaf distribution with the project's recommended features installed</td></tr></table> | | | | Name | Status | Description | | Functionality Freeze | Done | Final list of externally consumable APIs defined and documented | | Karaf Features defined | Done | Karaf Features defined | | Documentation Started | Done | Identified the kinds of documentation to be provided, created AsciiDoc files for them with outlines, and committed those files in an appropriate location | | Integration & System Test | Done | Simple system test on a karaf distribution with the project's recommended features installed | | | | | | |
| | | Name | Status | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Functionality Freeze | Done | Final list of externally consumable APIs defined and documented | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Karaf Features defined | Done | Karaf Features defined | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Documentation Started | Done | Identified the kinds of documentation to be provided, created AsciiDoc files for them with outlines, and committed those files in an appropriate location | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integration & System Test | Done | Simple system test on a karaf distribution with the project's recommended features installed | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 2/16 /2017 | <table><tr><th colspan="2">Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td colspan="2">API Freeze</td><td>Done</td><td colspan="2">All external consumable</td></tr><tr><td colspan="2">Draft documentation</td><td>Done</td><td colspan="2">Goal of draft documentation done</td></tr><tr><td colspan="2">Maven central requirements</td><td>Done</td><td colspan="2">Meet the requirements to be included in maven central</td></tr><tr><td colspan="2">Feature Test Continues</td><td>Done</td><td colspan="2">SW configuration and resources required for system test installed</td></tr></table> | | | | Name | | Status | Description | | API Freeze | | Done | All external consumable | | Draft documentation | | Done | Goal of draft documentation done | | Maven central requirements | | Done | Meet the requirements to be included in maven central | | Feature Test Continues | | Done | SW configuration and resources required for system test installed | |
| | | Name | | Status | Description | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | API Freeze | | Done | All external consumable | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Draft documentation | | Done | Goal of draft documentation done | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Maven central requirements | | Done | Meet the requirements to be included in maven central | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feature Test Continues | | Done | SW configuration and resources required for system test installed | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 | 3/16 /2017 | <table><tr><th>Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td>Code Freeze</td><td>Done</td><td colspan="2">Code complete, only bug fixes going forward</td></tr><tr><td>Stability branch</td><td>Done</td><td colspan="2">Stability branch, i.e., stable/boron, must be cut and local project versions bumped on master to avoid overwriting boron SNAPSHOTS</td></tr><tr><td>String Freeze</td><td>Done</td><td colspan="2">All externally visible strings frozen to allow for translation & documentation</td></tr><tr><td>Documentation Complete</td><td>Done</td><td colspan="2">Only editing and and enhancing should take place after this point</td></tr><tr><td>Feature Test Complete</td><td>Done</td><td colspan="2">Feature Test Complete</td></tr></table> | | | | Name | Status | Description | | Code Freeze | Done | Code complete, only bug fixes going forward | | Stability branch | Done | Stability branch, i.e., stable/boron, must be cut and local project versions bumped on master to avoid overwriting boron SNAPSHOTS | | String Freeze | Done | All externally visible strings frozen to allow for translation & documentation | | Documentation Complete | Done | Only editing and and enhancing should take place after this point | | Feature Test Complete | Done | Feature Test Complete | | |
| | | Name | Status | Description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Code Freeze | Done | Code complete, only bug fixes going forward | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Stability branch | Done | Stability branch, i.e., stable/boron, must be cut and local project versions bumped on master to avoid overwriting boron SNAPSHOTS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | String Freeze | Done | All externally visible strings frozen to allow for translation & documentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Documentation Complete | Done | Only editing and and enhancing should take place after this point | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feature Test Complete | Done | Feature Test Complete | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RC0 | 5/11 /2017 | <table><tr><th colspan="2">Name</th><th>Status</th></tr><tr><td colspan="2">Release Candidate 0</td><td>Done</td></tr></table> | | | | Name | | Status | Release Candidate 0 | | Done | | | | | | | | | | | | | | | | | | | |
| | | Name | | Status | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Release Candidate 0 | | Done | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RC1 | 5/16 /2017 | <table><tr><th colspan="2">Name</th><th>Status</th></tr><tr><td colspan="2">Release Candidate 1</td><td>Done</td></tr></table> | | | | Name | | Status | Release Candidate 1 | | Done | | | | | | | | | | | | | | | | | | | |
| | | Name | | Status | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Release Candidate 1 | | Done | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RC2 | 5/18 /2017 | <table><tr><th colspan="2">Name</th><th>Status</th></tr><tr><td colspan="2">Release Candidate 2</td><td>Done</td></tr></table> | | | | Name | | Status | Release Candidate 2 | | Done | | | | | | | | | | | | | | | | | | | |
| | | Name | | Status | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Release Candidate 2 | | Done | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RC3 | 5/21 /2017 | <table><tr><th colspan="2">Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td colspan="2">Release Review</td><td></td><td colspan="2">Release Review Description</td></tr><tr><td colspan="2">Release Candidate 2</td><td></td><td colspan="2"></td></tr></table> | | | | Name | | Status | Description | | Release Review | | | Release Review Description | | Release Candidate 2 | | | | | | | | | | | | | | |
| | | Name | | Status | Description | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Release Review | | | Release Review Description | | | | | | | | | | | | | | | | | | | | | | | | | |
| Release Candidate 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|----------------|------------|----------------------|---------------|---------------------------------------|
| Formal Release | 5/25 /2017 | Name | Status | Description |
| | | Formal Boron Release | | |
| | | OCP Plugin Release | | OCP Plugin Carbon officially released |

Externally Consumable APIs

| API | API Status | Short description | Contract | Supporting Code |
|--------------|------------|---|--|------------------|
| health-check | Stable | The Health Check procedure allows the application to verify that the OCP layer is functioning correctly at the RE. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-device-mgmt.yang (SB) | odl-ocplugin-all |
| set-time | Stable | The Set Time procedure allows the application to set/update the absolute time reference that shall be used by the RE. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-device-mgmt.yang (SB) | odl-ocplugin-all |
| re-reset | Stable | The RE Reset procedure allows the application to reset a specific RE. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-device-mgmt.yang (SB) | odl-ocplugin-all |
| get-param | Stable | The Object Parameter Reporting procedure allows the application to retrieve the following information: 1. the defined object types and instances within the Resource Model of the RE 2. the values of the parameters of the objects | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-config-mgmt.yang (SB) | odl-ocplugin-all |
| modify-param | Stable | The Object Parameter Modification procedure allows the application to configure the values of the parameters of the objects identified by the Resource Model. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-config-mgmt.yang (SB) | odl-ocplugin-all |
| create-obj | Stable | The Object Creation procedure allows the application to create and initialize a new instance of the given object type on the RE. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-object-lifecycle.yang (SB) | odl-ocplugin-all |
| delete-obj | Stable | The Object Deletion procedure allows the application to delete a given object instance and recursively its entire child objects on the RE. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-object-lifecycle.yang (SB) | odl-ocplugin-all |
| get-state | Stable | The Object State Reporting procedure allows the application to acquire the current state (for the requested state type) of one or more objects of the RE resource model, and additionally configure event-triggered reporting of the detected state changes for all state types of the indicated objects. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-object-state-mgmt.yang (SB) | odl-ocplugin-all |
| modify-state | Stable | The Object State Modification procedure allows the application to trigger a change in the state of an object of the RE Resource Model. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-object-state-mgmt.yang (SB) | odl-ocplugin-all |
| get-fault | Stable | The Fault Reporting procedure allows the application to acquire information about all current active faults associated with a primary object, as well as configure the RE to report when the fault status changes for any of faults associated with the indicated primary object. | applications/ocp-service/src/main/yang /ocp-service.yang (NB), ocplugin/model /model-ocp-service/src/main/yang/sal-fault-mgmt.yang (SB) | odl-ocplugin-all |

Expected Dependencies on Other Projects

- ODL Parent
- MD-SAL
- YANG Tools
- Controller

Expected Incompatibilities with Other Projects

None

Compatibility with Previous Releases

N/A

Themes and Priorities

None

Requests from Other Projects

None

Test Tool Requirements

- Testing is done in form of Java unit tests and integration tests, no requirements on infrastructure except Maven. Reporting is provided by Jenkins.

Other

None