

IBM Agile Lifecycle Manager  
Version 2.2.0

*Release Notes*  
*26 June 2020*



**Note**

Before using this information and the product it supports, read the information in [“Notices” on page 6.](#)

This edition applies to Version 2.2.0. of IBM® Agile Lifecycle Manager (product number 5737-E91) and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Chapter 1. What's new in this release

IBM Agile Lifecycle Manager Version 2.2.0 is available on Red Hat OpenShift Container Platform 4.3 or later running IBM Common Services 3.4 or later.

The IBM Agile Lifecycle Manager software has been refreshed, and the documentation has been updated. Late breaking information and known limitations are described in this document.

A number of new features and enhancements have been introduced in IBM Agile Lifecycle Manager Version 2.2.0.

- **Support for Red Hat OpenShift Container Platform 4.4**
- **Support for Red Hat OpenShift Container Platform on Amazon Web Services**
- **Dynamic storage provisioning**

A storage class can be specified during the deployment. This enables StatefulSets to use dynamically provisioned persistent storage of any type supported by Red Hat OpenShift Container Platform.

- **Custom certificates and keys**

Custom certificates and keys can be provided to the deployment.

- **Run with the restricted Security Context Constraint**

Microservices run as an arbitrary user on the Red Hat OpenShift Container Platform restricted Security Context Constraint.

- **Service Account**

A Service Account is created to be used by IBM Agile Lifecycle Manager pods.

- **Ability to create clones of Assembly Designs**

From the IBM Agile Lifecycle Manager User Interface Assembly Designer it is now possible to clone an existing Assembly Design giving it a new Name/version. The Assembly Design is cloned in its entirety including the set of Doki scripts if applicable.

- **Improved Design visibility/navigation on canvas for large designs**

In addition to the persisting of view location and zoom levels added in the previous release a new "mini-map" showing the location of the view on the overall design canvas and the location of each of the assembly components on the canvas so that the user can more easily navigate/zoom to the desired portion of the design.

- **Enhanced Resource Manager Driver API supporting full end to end lifecycle execution**

The Resource Manager Driver API has been enhanced to allow a driver to support both the VIM and xNF/Resource tasks

- **Ability to suspend users via the "Suspended" LDAP Group**

It is possible to suspend users by adding them to an LDAP group called "Suspended". If a user is added to this group, attempts to access resources will result in an authorisation failure and inability to login/refresh an access token.

- **Extension of the Resource Descriptor allows Resource Manager Driver selection at the lifecycle transition and operation levels**

Prior to IBM Agile Lifecycle Manager v2.2.0, a Resource Manager Driver was selected by the Resource Manager based on the infrastructure type. This has been enhanced to allow Resource Descriptors to identify the preferred driver for individual Lifecycle Transitions. This extends the flexibility of the system from the perspective of the xNF/Resource designer who can leverage different Resource Manager Drivers to perform Lifecycle Transitions for a given xNF/Resource.

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## Chapter 2. Installing the product

To install the Red Hat OpenShift Container Platform version of IBM Agile Lifecycle Manager 2.2.0, follow the instructions in the *IBM Agile Lifecycle Manager Installation and Configuration Guide*.

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## Chapter 3. Issues addressed in this release

The following issues have been addressed in this release.

- Scaling cassandra down to two replicas does not work
- Execution tab remains as In Progress indefinitely.
- Numerous `java.io.FileNotFoundException` messages filling up Watchtower and Galileo logs.
- Brent pods are crashing frequently.
- Log message Failed to connect to service at [<http://galileo/api/topology/assemblies>].

## Chapter 4. Known issues and limitations

The following known issues and limitations apply to IBM Agile Lifecycle Manager Version 2.2.0.

### Known issues

The following known issues exist in this release:

- Lots of tombstone logs in Cassandra debug logs.
- HEAL: Intents which are configured to be triggered automatically if certain conditions are met have been observed on some occasions to stop triggering. Monitoring of a specific assembly can be lost with the result that an automatic heal intent that should be triggered is not requested. Manually requesting a heal intent on the impacted assembly should subsequently restore monitoring of the assembly and the automatic triggering of heal intents should also be restored.
- State change not occurring for assembly's components, only for the component (Ansible RM).
- IBM Agile Lifecycle Manager: Issue when using property values from one resource in another resource when the resources are clusters.
- Operations do not work for scaling groups.
- IBM Agile Lifecycle Manager GUI allows the user to delete the assembly descriptor that is in use by the active assembly instance.
- Kibana links present in UI error messages are invalid. Error message in the UI may contain a View in Kibana hyperlink. These links are invalid as Kibana dashboards are not enabled in this release.
- The Configurator still shows as in Running state even though it has stopped processing data, and the log file shows the following error message:

```
2020-06-12 13:56:37.399 ERROR 11 --- [main] c.a.s.b.s.janus.JanusSchemaImporter : Error
encountered importing JanusGraph schema galileo
com.datastax.driver.core.exceptions.OperationTimedOutException: [/10.254.12.109:9042] Timed
out waiting for server response
```

To recover the system from this state, delete the configurator pod and the deployment will resume itself from there.

- IBM Agile Lifecycle Manager cannot be installed in the default namespace. You must create a non-default namespace when installing it.
- The alm-configurator pod logs the following message:

```
Failed to restore initial working directory: /home/ibmalm: Permission denied
```

This log message has no functional impact and can be safely ignored.

- **Recent Assembly Instances** view in the IBM Agile Lifecycle Manager User Interface: If an intent is triggered on an assembly from outside the **Recent Assembly Instances** view, the assembly instance may disappear from the list of assemblies presented. Refreshing/reloading the URL should restore the impacted assembly to the **Recent Assembly Instance** assembly list.
- The alm-zookeeper pod logs may contain the following message:

```
WARN Unable to read additional data from client sessionid 0x0, likely client has closed
socket (org.apache.zookeeper.server.NIOServerCnxn)
```

This log message has no functional impact and can be safely ignored.

- The watchtower pod logs may contain the following WARN level messages:

```
The configuration 'admin.retries' was supplied but isn't a known config
The configuration 'admin.retry.backoff.ms' was supplied but isn't a known config
The configuration 'stateDirectory' was supplied but isn't a known config
```



These log message have no functional impact and can be safely ignored.

- Elasticsearch pods fail to start if the `global.persistence.storageClassOption.elasticlogs` global variable is specified for the IBM Agile Lifecycle Manager deployment.

To work around this issue, edit the elasticsearch StatefulSet and add the following lines after and aligned with `serviceAccountName`:

```
serviceAccountName: <release-name>-serviceaccount
volumes:
- name: tmp
  emptyDir: {}
```

- Right after installation is kicked-off, the link mentioned in the Further Information section still points to TNC-O v1.1 documentation. The link to TNC-O v1.2 is <https://www.ibm.com/support/pages/node/6213216>.

## Limitations

The following limitations apply to this release:

- Multiple concurrent intent requests on an assembly instance are not supported.
- Requesting operations through the IBM Agile Lifecycle Manager API is not supported.
- The ldapBind authentication mechanism does not support:
  - BCRYPT(ed) password entries in the userPassword field
  - isSuspended field
- The ldapBind authentication mechanism must be used with Microsoft Active Directory.
- The LDAP attribute isSuspended is not supported with OpenLDAP. If OpenLDAP is used, the only supported mechanism to suspend users is by adding them to the Suspended group.

## Change of functionality

- LDAP configuration

The LDAP configuration properties `LDAP_SEARCH_BASE` and `LDAP_SEARCH_FILTER` available in IBM Agile Lifecycle Manager 2.0.0 and earlier versions have been renamed to `LDAP_USER_SEARCH_BASE` and `LDAP_USER_SEARCH_FILTER` in IBM Agile Lifecycle Manager version 2.1.0.

If you are using a secret definition from a version of IBM Agile Lifecycle Manager earlier than 2.1.0, make sure you update the name of these properties.

- Resource Manager Creation

Type attribute can no longer be set at Resource Manager creation. It is read directly from the Resource Manager.

- Removal of StateChangeEvents in API query responses

StateChangeEvents in the API query response have been removed to improve performance.

## Notices

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This information applies to the PDF documentation set for IBM Agile Lifecycle Manager.

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