

# Available Releases

## ODIM RA 23.08 Release

Feature	Description
BMC Operator	<p>BMC Operator is a new component added as part of the release. It is a software extension of Kubernetes and is used to manage various BMC operations that include the deployment and management of BIOS, boot order, volume, firmware and event subscription operations.</p> <p>More information on BMC Operator and its operations are documented in <a href="#">BMC Operator Readme</a>.</p>
Support for additional SecureBoot APIs	<p>Additional SecureBoot APIs supported in the release include:</p> <ul style="list-style-type: none"><li>• PATCH on /redfish/v1/Systems/{ComputerSystemId}/SecureBoot</li><li>• POST on /redfish/v1/Systems/{ComputerSystemId}/SecureBoot/Actions/SecureBoot.ResetKeys</li><li>• GET on /redfish/v1/Systems/{ComputerSystemId}/SecureBoot/SecureBootDatabases</li><li>• GET on /redfish/v1/Systems/{ComputerSystemId}/SecureBoot/SecureBootDatabases/{db}</li><li>• GET on /redfish/v1/Systems/{ComputerSystemId}/SecureBoot/SecureBootDatabases/db/Certificates</li><li>• GET on /redfish/v1/Systems/{ComputerSystemId}/SecureBoot/SecureBootDatabases/db/Certificates/{certificateID}</li></ul> <p>For more information on these APIs, see the <i>SecureBoot</i> section in the <a href="#">Resource Aggregator for Open Distributed Infrastructure Management™ API Readme</a>.</p>
logsOnConsole	<p>This is a new feature to print the logs on console or append them to a file. When you set the value to false, the ODIM logs are redirected to a log file. Setting the value to true displays the logs on console. The default value is false .</p>
Ubuntu OS version	<p>The current release of ODIM is compatible with Ubuntu 22.04.2 LTS version.</p>
Updated Docker image versions of ODIM services	<p>For information on the latest Docker image versions for ODIM services, see <a href="https://github.com/ODIM-Project/ODIM/tree/main#building-docker-images-of-all-resource-aggregator-for-odim-services">https://github.com/ODIM-Project/ODIM/tree/main#building-docker-images-of-all-resource-aggregator-for-odim-services</a>.</p>
Task support for additional APIs	<p>Here are the API URIs that have task support for the release:</p> <ul style="list-style-type: none"><li>• /Systems/{id}/Actions/ComputerSystem.Reset</li><li>• /Systems/{id}/Bios/Settings</li><li>• /Systems/{id}</li><li>• /Systems/{id}/Storage/{id}/Volumes</li><li>• /Systems/{id}/Storage/{id}/Volumes/{id}</li><li>• /AccountService/Accounts</li><li>• /AccountService/Accounts/{id} (for delete and update operations of BMC account)</li><li>• /UpdateService/Actions/UpdateService.SimpleUpdate</li><li>• /UpdateService/Actions/UpdateService.StartUpdate</li><li>• /Managers/{id}/VirtualMedia/{id}/Actions/VirtualMedia.InsertMedia</li><li>• /Managers/{id}/VirtualMedia/{id}/Actions/VirtualMedia.EjectMedia</li><li>• /LicenseService/Licenses</li></ul> <p>For more information on these APIs, see the <a href="#">API Readme</a>.</p>
Performance improvements	<p>Here are the improvements being made for the release:</p> <ul style="list-style-type: none"><li>• Streamlined the task service communications with Redis database for improved performance.</li><li>• Event processing is improved.</li><li>• Number of Computer System reset operations in parallel is increased.</li><li>• Number of concurrent server additions is increased.</li><li>• Implemented caching of event subscriptions. Refactored code for improved event processing.</li><li>• Improved performance in handling large number of API requests.</li><li>• Logging enhancements in UpdateService and TelemetryService.</li></ul>
Redis version	<p>The current release of ODIM supports Redis version 7.0.11.</p>
Kafka version	<p>The current release of ODIM supports Kafka version 3.4.0.</p>
Enhanced security	<p>Support for the updated Redis and Kafka versions have fixed the security issues.</p>

## Resolved issues

The following issues are fixed in the release:

- Properties in Syslogs are separated by more than one space.
- Value appears only for a few properties in logs.
- For URP and ACI plugins, the UUID is not removed from the manager collection after you remove the plugins from ODIM.

## Known issues

- Creating an event subscription with the same systemid in origin resources returns 400 error code in the response.
- The HTTP GET operation on ODIM and plugin Managers in LogServices/SL/Entries returns 500 error code in the response.

## ODIM RA 23.02 Release

- Included additional properties in logs that include actionID, actionName, level, messageID, processName, procID, threadID, threadName, and transactionID for better traceability of operations in logs
- Addition of debug logs for multiple ODIM RA services
- Performance improvements during the addition of servers in ODIM RA
- Performance improvements during task communications with database
- Separation of Redis and sentinel containers into different pods for better handling of database failovers
- Resolved multiple vulnerabilities found in GitHub code scanning workflows
- Support for dynamic updation of log levels for ODIM RA services
- Support for ODIM RA services log output in Syslog or JSON formats
- Support for updated Redis version 7.0.8
- Support for updated Golang version 1.19.5
- Removed dockershim support and added support for "containerd" container engine
- Support for upgraded version of Kubernetes 1.24.6
- Support for upgraded version of Kubespray 2.20.0
- Updated versions for all ODIM RA services
- Updated ConnectionMethod variant versions for plugins
- Updated content in the Troubleshooting Readme document
- Procedures for backup and restore of etcd, Redis, ODIMRA and plugins configurations
- Bug fixes

## ODIM RA 22.08 Release

### New Features

- Added the following new properties in ODIM RA managers:
  - ManagerForChassis
  - ManagerForServers
  - ManagerForManagers
- Added task support for System reset
- Added task support for UpdateService
- Support for IPv6 address to send API service requests for the northbound access of ODIM RA
- Support for adding servers with IPv6 address as an aggregation source
- Support for managing BMC accounts and roles
- Support for specifying rate limits to limit:
  - Resources for the same requests multiple times
  - Number of concurrent API requests sent per session
  - Number of active sessions a user can have
- Support for the following operations on LicenseService APIs:
  - GET on /redfish/v1/LicenseService
  - GET and POST on /redfish/v1/LicenseService/Licenses
  - GET on /redfish/v1/LicenseService/Licenses/{Licenseld}
- Support for configuring the number of reposting instances and specific time interval for undelivered events
- Support for updated DMTF Redfish Specification version 1.15.1 and Schema version 2022.1
- Support for updated Redis database version to 6.2.6
- Support for updated Kafka version to 3.1.0 and Zookeeper version to 3.7.0
- Support for updated Kubernetes version to 1.23.5 and Kubespray version to 2.17.0
- Support for event subscription with aggregates as OriginResources
- Support for event subscription for destinations with IPv6 address
- Support for Redis authentication for ODIM RA in Kubernetes environment
- Support for GET operation on Volume capabilities
- Enabled TLS based communication for Redis
- Updated the volume creation payload as per Redfish specifications
- Updated UT coverage for ODIM RA services
- Updated sample responses for all services based on the latest DMTF Redfish Specification 1.15.1 and Schema 2022.1 versions
- Updated Docker image versions for Kubernetes and ODIM RA services and plugins
- Updated documentation - Instructions for time synchronization between the deployment node and the cluster nodes
- Updated documentation - Sample response for the GET operation on the collection of message registries
- Updated documentation - Support for generating and importing certificate for the server before adding the server
- Updated documentation - Content for all services and plugins in their respective directories in the ODIM-Project repository
- Updated documentation - List of supported APIs and supported Redfish services in the API documentation
- Updated documentation - For protoc compiler installation and usage

## ODIM RA 22.04 Release

### New Features

- Support for Redfish CompositionService 1.2.0
- Support for Redfish ResourceBlock 1.4.0
- Support for Redfish Zone of type ResourceZone

- Support for Compose and Decompose actions

## Known Issues/Limitations

- CompositionService does not produce any events. Composability related events are not part of this release.
- ResourceZone instance does not have Collection capabilities represented.
- Composed system does not support Add or Remove ResourceBlocks actions.
- CompositionReservations are not supported for the current ODIM RA infrastructure.

## [ODIM RA 22.02 Release](#)

### New Features

- Support for Lenovo Plugin
- Supported OS version is Ubuntu 20.04
- Support for RedisStreams message bus
- Support for StoragePools and its subordinate URLs
- Support for audit logs and security logs (authentication/authorization logs in syslog format)
- Updated ODIM RA for initial OCP compliance
- Removed weak ciphers and added secure ciphers
- Updated DMTF Redfish schema version to 2021.2
- Updated Kubespray version to 2.14.0
- Updated Kubernetes version to v1.21.5
- Updated Golang version to 1.17.2
- Cache-control header value is updated with no-cache, no-store, and must-revalidate values
- Updated common headers for all resources
- Added new error message in lib utilities
- Increased the channel buffer size used for processing events
- Removed hard coding of the queue name and reusing internal queue for resource and task events
- Replaced colon (":") with period (".") character in resource identifier URIs
- Removed compiled proto files from the GIT repository
- Deployment of Kafka is skipped if message bus is RedisStreams
- ODIM RA services and plugins versions are updated
- Added ManagerForChassis and ManagerForServer properties for plugin managers
- ODIM RA internal events are updated with EventTimestamp, Message and Severity properties
- ODIM RA services and plugin images are updated to Ubuntu 20.04
- Additional troubleshooting information

## Known Issues/Limitations

- Session creation captures a warning message under audit logs.
- Deletion of the default roles 'ReadOnly' and 'Operator' must not be allowed.
- @odata.type of SubTasks is #SubTasks.SubTasks instead of #TaskCollection.TaskCollection.
- "SerialInterfaced" under BMC manager has an extra 's' character.
- "DateTime" property under ODIM RA and plugin manager must be in UTC format.
- "Certificates" property value under Drives resource is empty.
- New role creation must not be allowed.

## [ODIM RA 21.08 Release](#)

### New Features

- Support for Redfish TelemetryService
- Migrated go-micro to gRPC framework
- Kubernetes based deployment. Supported configurations are:
  - One-node deployment
  - Three-node deployment
- Redis, Kafka, Zookeeper and etcd in High Availability mode (deployed only on master nodes)
- Customized "odim-controller" deployment tool for Kubernetes and ODIM deployment and operations
- Support for encoded URLs
- VirtualMedia Insert and Eject operations
- Enhancements in lib-persistence-manage package
- Updated Redis database from 5.0.8 to 6.2.5
- Updated DMTF Redfish schema version to 2021.1
- Basic implementation of a plugin to support Dell servers
- Basic implementation of a plugin to support [Cisco ACI](#)
- Added ODIM RA profiles
- Updated GitHub CI/CD actions to build and deploy ODIM RA and Kubernetes, and do a basic check before any PR is merged

## [ODIM RA 21.01 Release](#)

To get access to this release, clone from the repository (<https://github.com/ODIM-Project/ODIM>). All the releases are on the main branch. If you don't want the latest release you can checkout an earlier release by using its tag. To see tags: git tags.

The build instructions are in the [README.md](#) file

**ODIM 21.01 presentation from LFN Developer and Testing Forum**

