



# Workload Optimization Manager 3.4.6

## REST API Changes

October 21, 2022

This document describes issues that result in changes to the REST API. It is a running list of changes that accumulates until the next release of the API Programming Guide. When we release a new version of the programming guide, it will include these changes. At that time, this list will start with new changes to the API.

Because the API is a full reflection of the Workload Optimization Manager product, some changes to the product necessarily cause changes in the API. This can include bug fixes and improvements to the product. For example, we might add new commodities that you can get for a given entity type. Or a bug fix might change the data that is returned by an API request. We strive to make these changes backward-compatible whenever possible.

In some instances, we must make changes that are not backward-compatible. In this case, we deprecate the change for a period of time that should be sufficient for you to understand the change and implement an alternative in your scripts.

- For a list of upcoming deprecations, see [API Deprecation Contract \(on page 2\)](#).

## REST API Changes

- **Improvement:**

Fix Version: 8.6.5

**The API now supports reservations with cluster affinity.**

When creating reservations, you can now specify affinity rules for the reserved VMs. You can ensure all the VMs in a reservation deploy to the same cluster. If you do not specify affinity, the VMs deploy to any clusters in the scope. This is the same as earlier behavior for reservations.

To specify affinity for a reservation, you declare:

- **scope** (optional): You can provide a cluster scope for a reservation. The VMs will deploy only to providers within that scope.
- **MODE**: If you set this to `AFFINITY`, then the reservation will deploy VMs to only one cluster in scope. If there is no cluster that can host the requested VMs, the reservation is `UNFULFILLED`.

- **Improvement:**

Fix Version: 8.2.5

Fix Version: 8.6.3

**The `/supplychains/leafEntities` endpoint is now available.**

This release introduces the `/supplychains/leafEntities` endpoint that you can use to define your own supply chain topology. This endpoint returns a list of 'leaf entities' related to a 'seed entity'.

A seed entity acts as the starting point for defining a user-defined topology. Workload Optimization Manager uses your specified seed entity to find all the related entities (or leaf entities). For example, to define a topology, you start by specifying the UUID of a VM (seed entity) that you monitor frequently. When you execute `GET /supplychains/leafEntities`, Workload Optimization Manager might return three leaf entities – the Business Application, Application Component, and Service that the VM supports. You can then create a topology definition based on the seed and leaf entities.

- **Fixed Issue:**

Fix Version: 8.6.1

**The maximum entries returned for GET and POST methods is 500.**

Starting with Workload Optimization Manager version 3.4.1, GET and POST methods return a maximum of 500 entries when run on `ServiceEntities`, `Groups`, or `BusinessAccount` endpoints. You should always check for pagination in your results.

## API Deprecation Contract

The following endpoints, requests, DTOs, and parameters are deprecated in the Workload Optimization Manager API. The End of Life (EOL) gives the product version in which we will finalize these changes, and will no longer offer the deprecated items.

**NOTE:**

See the instructions for alternative usage for deprecated items with a defined EOL.

### EOL: Not Determined

We deprecate the following features, but we have not determined which Workload Optimization Manager version marks their End of Life.

Endpoints	None
Requests	None
Request Parameters	None
DTOs	<ul style="list-style-type: none"> <li>▪ DTO: <code>ScenarioChangeApiDTO</code> Instruction: Use the <code>loadChanges</code> or <code>configChanges</code> parameters in the <code>Scenario-ApiDTO</code>.</li> </ul>
DTO Parameters	<ul style="list-style-type: none"> <li>▪ DTO: <code>ScenarioApiDTO</code> Parameter Name: <code>changes</code> Instruction: Use the <code>loadChanges</code> or <code>configChanges</code> parameters.</li> </ul>

## EOL: 8.7.1

We will make the following deprecation changes in the 8.7.1 release. These deprecated features will be removed from the API at that time.

Endpoints	None
Requests	<ul style="list-style-type: none"> <li>DELETE /entities/&lt;entityId&gt;/tags/&lt;tagKey&gt; Instead, use DELETE /entities/&lt;entityId&gt;/tags?key=&lt;tagKey&gt;</li> <li>DELETE /groups/&lt;groupId&gt;/tags/&lt;tagKey&gt; Instead, use DELETE /groups/&lt;groupId&gt;/tags?key=&lt;tagKey&gt;</li> </ul>
Request Parameters	None
DTOs	<ul style="list-style-type: none"> <li>LicenseApiInputDTO Instruction: Use LicenseApiDTO.</li> </ul>
DTO Parameters	<ul style="list-style-type: none"> <li>DTO: HttpProxyDTO Parameter Name: portNumber Instruction: Use proxyPortNumber.</li> <li>DTO: LogEntryApiDTO Parameter Name: reasonCommodity Instruction: Use the array, reasonCommodities.</li> </ul>

## EOL: 8.8.1

We will make the following deprecation changes in the 8.8.1 release. These deprecated features will be removed from the API at that time.

Endpoints	None
Requests	<ul style="list-style-type: none"> <li>GET /search/market/ Instead, use GET /markets</li> <li>GET /search/target/ Instead, use GET /targets</li> <li>GET /groups/&lt;groupId&gt;/actions/&lt;actionId&gt; Do not use this call (not implemented).</li> <li>GET, POST /target/&lt;targetId&gt;/stats Do not use this call (not implemented).</li> <li>GET /businessunits/&lt;busUnitId&gt;/stats Instead, use GET /entities/&lt;entityId&gt;/stats or GET /stats/&lt;entityId&gt;/stats. These calls use the business unit entity ID.</li> <li>POST /businessunits/&lt;busUnitId&gt;/stats Instead, use POST /stats/&lt;entityId&gt;/stats or POST /stats.</li> </ul>
Request Parameters	None
DTOs	None
DTO Parameters	None
ENUM Values	<ul style="list-style-type: none"> <li>entityType:VMSpec Use VirtualMachineSpec instead</li> </ul>

- `entityTypes:VMSpec`  
Use `VirtualMachineSpec` instead
- `entityTypeFilter:VMSpec`  
Use `VirtualMachineSpec` instead
- `providerEntityType:VMSpec`  
Use `VirtualMachineSpec` instead
- `relatedEntityType:VMSpec`  
Use `VirtualMachineSpec` instead
- `providerType:VMSpec`  
Use `VirtualMachineSpec` instead

## API Deprecation History

The following endpoints, requests, DTOs, and/or parameters have been deprecated in the Workload Optimization Manager API. The End of Life (EOL) gives the product version in which we finalized these changes, and no longer support the deprecated items.

### EOL: 8.6.1

#### Behavior Changes:

- Pagination of Returned Data from `/search` requests:

For searches, the API paginates the returned data. Starting with version 8.6.1, the default pagination limit is 100 entries, and the maximum pagination limit is 500. If you do not specify a pagination limit, then the API returns pages set to the default limit of 100. If you make no settings, and your search results include more than 100 entries, the results will be paginated. Your scripts should always check for a pagination cursor when processing search results.

You can change these settings in the Workload Optimization Manager `cr.yaml` file. Find the entries for:

- `apiPaginationDefaultLimit`
- `apiPaginationMaxLimit`

We made the following deprecation changes in the 8.6.1 release. These deprecated features were removed from the API at that time.

Endpoints	None
Requests	None

Request Parameters	None
DTOs	<ul style="list-style-type: none"> <li>ReportScheduleApiDTO This release will remove ReportScheduleApiDTO.</li> </ul>
DTO Parameters	<ul style="list-style-type: none"> <li>           DTO: ActionApiDTO            Parameter Name: CurrentLocation            Instruction: The object in this parameter will only contain the following fields:           <ul style="list-style-type: none"> <li>links</li> <li>uuid</li> <li>className</li> <li>displayName</li> <li>discoveredBy</li> <li>environmentType</li> <li>vendorIDs</li> </ul> </li> <li>           DTO: ActionApiDTO            Parameter Name: NewLocation            Instruction: The object in this parameter will only contain the following fields:           <ul style="list-style-type: none"> <li>links</li> <li>uuid</li> <li>className</li> <li>displayName</li> <li>discoveredBy</li> <li>environmentType</li> <li>vendorIDs</li> </ul> </li> <li>           DTO: ProductVersionDTO            Parameter Name: buildUser            Instruction: Deprecated with no replacement. This parameter was not implemented in the 8.x product family.         </li> <li>           DTO: GroupApiDTO            Parameter Name: remoteId            Instruction: Deprecated with no replacement. This parameter was not implemented in the 8.x product family.         </li> <li>           DTO: UserApiDTO            Parameter Names:           <ul style="list-style-type: none"> <li>roleUuid</li> <li>roleName</li> </ul>           Instruction: Deprecated. Use the roles parameter in UserApiDTO.         </li> </ul>

## EOL: 8.5.1

### Behavior Changes:

- **Pagination of Returned Data**

The default pagination will change for the following requests:

- `GET /groups`
- `GET /groups/<groupId>/members`
- `GET /groups/<groupId>/entities`
- `GET /targets/<targetId>/entities`
- `GET /tags`
- `GET /tags/{tagKey}/entities`

To paginate returned data, the `limit`, `orderBy`, and `cursor` parameters control how the APIs paginate their data. Currently if you specify any one of these parameters, the API paginates the returned data. If you do not specify any of these parameters, the API does not paginate the output, and it returns an unlimited set of data.

Starting with version 8.5.1, if you do not specify a `limit` for these requests, the API will paginate the data to a default limit. If your scripts make these requests without setting a limit, you should update them to check for a pagination cursor in the returned data.

We made the following deprecation changes in the 8.5.1 release. These deprecated features were removed from the API at that time.

Endpoints	None
Requests	<ul style="list-style-type: none"> <li>▪ Request: <code>GET /users/onetimepassword</code> Instruction: Deprecated with no replacement. This is not required for any Workload Optimization Manager activities.</li> </ul>
Request Parameters	None
DTOs	None
DTO Parameters	None

## EOL: 8.4.3

We made the following deprecation changes in the 8.4.3 release. These deprecated features were removed from the API at that time.

Endpoints	None
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Requests	None
Request Parameters	<ul style="list-style-type: none"> <li>Request: GET /search Parameter Name: regex Instruction: Use the queryType parameter.</li> </ul>
DTOs	<ul style="list-style-type: none"> <li>DTO: StatPercentileApiDTO Instruction: Use StatHistUtilizationApiDTO.</li> </ul>
DTO Parameters	<ul style="list-style-type: none"> <li>DTO: ActionApiDTO Parameter Name: resizeToValue Instruction: Use the newValue parameter.</li> <li>DTO: ActionScopesApiDTO Parameter Name: limitEntities Instruction: Use the limit parameter.</li> <li>DTO: BillingFamilyApiDTO Parameter Name: uuidToNameMap Instruction: Use the businessUnitApiDTOList parameter.</li> <li>DTO: BusinessUnitApiDTO Parameter Name: hasRelatedTarget Instruction: Use the associatedTargetId parameter.</li> <li>DTO: ScopeUuidsApiInputDTO Parameter Name: topologyContextId Instruction: Use the marketId parameter.</li> <li>DTO: StatApiDTO Parameter Name: percentile Instruction: Use the histUtilizations parameter.</li> <li>DTO: TargetApiDTO Parameter Name: currentBusinessAccount Instruction: Use the associatedTargetId parameter of the BusinessUnitApiDTO.</li> </ul>