



Turbonomic 8.4.3 REST API Changes

January 12, 2022

This document describes issues that result in changes to the REST API. It is a running list of changes that accumulates these changes 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, the list will start with new change to the API.

Because the API is a full reflection of the Turbonomic 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 [Appendix: API Deprecation Contract \(on page 2\)](#).

REST API Changes

- **Fixed Issue:**

Fix Version: 8.4.1

Customer Issue 117853

Under some circumstances, the search endpoint can arbitrarily fail to return data.

Because of timing issues when updating cached group data, calls to the `search` endpoint can fail to return data.

- **Known Issue:**

Fix Version: 8.4.4

When you create groups with a case-insensitive filter, the group results can be unexpected.

For API scripts that create groups, if you set `caseSensitive = false` for a regex filter, the results can be unexpected. The group creation can fail, or you can create a group that does not contain the entities you expect. For example:

- Group Creation Fails

If you include `(?i)` in the regex as a code to set case-insensitive matching, group creation fails and Turbonomic logs an error that includes:

```
BadSqlGrammarException: Access database using jOOQ; bad SQL grammar
```

- Group Members can be Unpredictable

If you include lowercase special characters in your regex, then you can get unpredictable results. For example, you could specify `foo\d\d\d.*` to match names such as "foo123bar" and "foo444baz". The `\d\d\d` section of the regex will not match three contiguous numbers.

To avoid these problems, do not set `caseSensitive = false` in your filters. If you must make that setting, only include lower-case characters for their literal meaning in your regex string. For example:

- Do not use `(?i)` to specify a case-insensitive match.
- Do not use `\d` to match any digit. Use `[0-9]` instead.

API Deprecation Contract

The following endpoints, requests, DTOs, and parameters are deprecated in the Turbonomic 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 Turbonomic version marks their End of Life.

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

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 set
- 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 do not specify a `limit` for the listed API requests, the API 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 will make the following deprecation changes in the 8.5.1 release. These deprecated features will be removed from the API at that time.

Endpoints	None
Requests	<ul style="list-style-type: none">• Request: GET /users/onetimepassword Instruction: Deprecated with no replacement. This is not required for any Turbonomic activities.
Request Parameters	None

DTOs	None
<p>DTO Parameters</p>	<ul style="list-style-type: none"> • DTO: ActionApiDTO Parameter Names: <ul style="list-style-type: none"> ◦ <code>currentLocation</code> ◦ <code>newLocation</code> Instruction: An action response no longer returns the following data to these parameters: <ul style="list-style-type: none"> ◦ <code>priceIndex</code> ◦ <code>state</code> ◦ <code>severity</code> ◦ <code>unplacementDetails</code> ◦ <code>costPrice</code> ◦ <code>severityBreakdown</code> ◦ <code>realtimeMarketReference</code> ◦ <code>consumers</code> ◦ <code>providers</code> ◦ <code>template</code> ◦ <code>numRelatedVMs</code> ◦ <code>connectedEntities</code> ◦ <code>aspects</code> ◦ <code>tags</code> ◦ <code>onDemandBeforeRate</code> ◦ <code>onDemandAfterRate</code> If you require these data, you can find the associated fields in <code>ActionApiDTO.currentEntity</code> and <code>ActionApiDTO.newEntity</code>. • DTO: BusinessUnitPriceAdjustmentApiDTO Parameter Name: <code>serviceDiscounts</code> Instruction: Use the <code>servicePriceAdjustments</code> parameter. • DTO: BusinessUnitApiDTO Parameter Name: <code>discount</code> Instruction: Use the <code>priceAdjustment</code> parameter.

	<ul style="list-style-type: none"> • DTO: CloudServicePriceAdjustmentApiDTO Parameter Name: discount Instruction: Use the priceAdjustment parameter. • DTO: CloudServicePricingModelApiDTO Parameter Name: discount Instruction: Use the priceAdjustment parameter. • DTO: TemplatePriceAdjustmentDTO Parameter Name: discount Instruction: Use the priceAdjustment parameter.
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EOL: 8.6.1

Behavior Changes:

- Pagination of Returned Data from /search requests:

For searches, the API paginates the returned data. If you do not specify a pagination limit, then the API returns pages set to the default limit. (This behavior was normalized all searches starting with version 8.5.1). Starting with version 8.6.1, the default and max pagination limits for search data will be 500. You can set pagination to less than 500, but if your search results include more than 500 entries, the results will be paginated. Your scripts should always check for a pagination cursor when processing search results.

We will make the following deprecation changes in the 8.6.1 release. These deprecated features will be removed from the API at that time.

Endpoints	None
Requests	<ul style="list-style-type: none"> • None

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

	<ul style="list-style-type: none"> • DTO: UserApiDTO <p>Parameter Names:</p> <ul style="list-style-type: none"> ◦ roleUuid ◦ roleName <p>Instruction: Deprecated. Use the <code>roles</code> parameter in UserApiDTO.</p>
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API Deprecation History

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

EOL: 8.4.3

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
Requests	None
Request Parameters	<ul style="list-style-type: none"> • Request: GET <code>/search</code> <p>Parameter Name: <code>regex</code></p> <p>Instruction: Use the <code>queryType</code> parameter.</p>
DTOs	<ul style="list-style-type: none"> • DTO: StatPercentileApiDTO <p>Instruction: Use StatHistUtilizationApiDTO.</p>
DTO Parameters	<ul style="list-style-type: none"> • DTO: ActionApiDTO <p>Parameter Name: <code>resizeToValue</code></p> <p>Instruction: Use the <code>newValue</code> parameter.</p> <ul style="list-style-type: none"> • DTO: ActionScopesApiDTO <p>Parameter Name: <code>limitEntities</code></p> <p>Instruction: Use the <code>limit</code> parameter.</p> <ul style="list-style-type: none"> • DTO: BillingFamilyApiDTO <p>Parameter Name: <code>uuidToNameMap</code></p> <p>Instruction: Use the <code>businessUnitApiDTOList</code> parameter.</p> <ul style="list-style-type: none"> • DTO: BusinessUnitApiDTO <p>Parameter Name: <code>hasRelatedTarget</code></p> <p>Instruction: Use the <code>associatedTargetId</code> parameter.</p>

- **DTO:** ScopeUuidsApiInputDTO
Parameter Name: topologyContextId
Instruction: Use the marketId parameter.
- **DTO:** StatApiDTO
Parameter Name: percentile
Instruction: Use the histUtilizations parameter.
- **DTO:** TargetApiDTO
Parameter Name: currentBusinessAccount
Instruction: Use the associatedTargetId parameter of the BusinessUnitApiDTO.