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# Turbonomic 8.2.7 REST API Changes

August 19, 2021

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.

## API Deprecation Contract

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 will finalize these changes, and will no longer offer the deprecated items.

**NOTE:**

Instructions for alternative usage are given for deprecated items with a defined EOL.

### EOL: 8.4.1

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: ScenarioChangeApiDTO Instruction: Use the loadChanges or configChanges parameters in the ScenarioApiDTO.</li> <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: ScenarioApiDTO Parameter Name: changes Instruction: Use the loadChanges or configChanges parameters.</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 Business-UnitApiDTO.</li> </ul>

**EOL: TBD**

Endpoints	None
Requests	<ul style="list-style-type: none"> <li>Request: GET /users/onetimepassword</li> <li>Request: POST /tags</li> <li>Request: DELETE /tags</li> <li>Request: DELETE /entities/{entity_Uuid}/tags/{tag_key}</li> <li>Request: DELETE /groups/{group_Uuid}/tags/{tag_key}</li> </ul>
Request Parameters	<ul style="list-style-type: none"> <li>Request: POST /tags Parameter Name: apiCallBlock</li> </ul>
DTOs	<ul style="list-style-type: none"> <li>DTO: ScenarioChangeApiDTO Instruction: Use the loadChanges or configChanges parameters in the ScenarioApiDTO.</li> <li>DTO: StatPercentileApiDTO Instruction: Use StatHistUtilizationApiDTO.</li> </ul>
DTO Parameters	<ul style="list-style-type: none"> <li>DTO: ActionApiDTO Parameter Name: progress</li> <li>DTO: HttpProxyDTO Parameter Name: portNumber</li> <li>DTO: LogEntryApiDTO Parameter Name: reasonCommodity</li> <li>DTO: MigrateObjectApiDTO Parameter Name: source</li> <li>DTO: MigrateObjectApiDTO Parameter Name: destination</li> <li>DTO: ProductVersionDTO Parameter Name: buildUser</li> <li>DTO: RangeApiDTO Parameter Name: customStepValues</li> <li>DTO: ServiceEntityApiDTO Parameter Name: placedOn</li> <li>DTO: ServiceEntityApiDTO Parameter Name: notPlacedOn</li> <li>DTO: ServiceEntityApiDTO Parameter Name: unplacedExplanation</li> <li>DTO: ServiceEntityApiDTO Parameter Name: remoteId</li> </ul>

- DTO: `UserApiDTO`  
Parameter Name: `roleUuid`
- DTO: `UserApiDTO`  
Parameter Name: `roleName`

## REST API Changes

- **Improvement:**

Fix Version: 8.2.4

**The Stats that the API returns for a VStorage entity now include the volume name in the `displayName` field.**

When you get stats for a VStorage entity, the returned data now includes the volume name in the `displayName` field. In previous versions the API returned the entity's key value for `displayName`.

- **Improvement:**

Fix Version: 8.2.3

In this version of Turbonomic, when a `/stats` request is executed for a cloud scope, the following four fields will be returned when applicable to summarize savings and investments:

- **REALIZED\_SAVINGS:**  
Savings from executed efficiency actions.
- **REALIZED\_INVESTMENTS:**  
Investments from executed performance actions.
- **MISSED\_SAVINGS:**  
Potential savings from recommended efficiency actions that were not taken.
- **MISSED\_INVESTMENTS:**  
Potential investments from recommended performance actions that were not taken.

- **Improvement:**

Fix Version: 8.2.3

Fix Version: 8.2.4

**The `LicenseApiDTO` now includes the `customerId` parameter.**

Starting with Turbonomic 8.2.3, `LicenseApiDTO` now includes the `customerId` parameter, a unique identifier for the licensed customer. This ID is intended to match the same customer to multiple licenses. For example, if one customer runs two Turbonomic instances each with its own license, the `customerId` will be the same for both.

- **Fixed Issue:**

Fix Version: 8.2.4

**For accepted values in the FilterApiDTO object, the Swagger UI did not list RXEQ or RXNEQ as valid match types.**

When you specify filters, you can specify Equals (RXEQ) or Not Equals (RXNEQ) for REGEX values. The Swagger UI now includes these as allowable values in its explanation. The values you can specify are:

- For Strings

```
'EQ', 'NEQ', 'RXEQ', 'RXNEQ'
```

- For Numbers

```
'EQ', 'NEQ', 'GT', 'LT', 'GTE', 'LTE'
```

- **Fixed Issue:**

Fix Version: 8.2.3

**Customer Issue 115907**

**For a list of actions, filter by Instance Type does not work for Optimization actions.**

When you view a list of actions, you can filter by different criteria, including Instance Type. However filtering by Instance Type does not work for Optimization actions.

- **Fixed Issue:**

Fix Version: 8.2.2

**Search filters that include Not Equals criteria can return incorrect results.**

When you set up search criteria that use a Not Equals operator, the results can be incorrect.

- **Fixed Issue:**

Fix Version: 8.2.1

**Customer Issue 114945**

**When you use the API to get the "numVMs" stats for an unsupported scope, the API returns a value of zero.**

When you execute the `api/v3/stats?ascending=true` request, you typically set a scope for the request. When requesting the `numVMs` stat, the scope must be a cluster. If you set a different type of scope, the data returns zero for the number of VMs. This is misleading, because it implies that there are no VMs in that scope. Instead, the returned value should indicate that you used an invalid scope.

- **Fixed Issue:**

Fix Version: 8.2.1

**Customer Issue 114742**

**Using the API to get the Global Defaults policy returns invalid data.**

To query for the Global Defaults policy, you can use the following request:

```
api/v3/settingspolicies/55555
```

However, this request returns an invalid payload, with no policy data in it.

- **Fixed Issue:**

Fix Version: 8.2.0

### **Customer Issue**

**After the licensed workload capacity has been exceeded, you can still add targets via the API.**

Turbonomic licensing specifies the number of workloads you can manage via targets. However, if you exceed the licensed capacity of workloads, you can still add new targets via the API, which increases the workload count.