



Turbonomic 8.0.3 REST API Changes

November 23, 2020

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.

REST API Changes

- **Improvement:**

Fix Version: 8.0.3

When configuring a scenario for a Migrate to Cloud plan, you can now specify the set of RIs to use, out of the RIs that are available for the plan's scope.

- **Improvement:**

Fix Version: 8.0.3

Container CPU is now represented in millicores, rather than megahertz. The following snippet of the EntityApiDTO reflects this change:

```
"currentValue": "200.0",  
  "newValue": "50.0",  
  "resizeToValue": "50.0",  
  "valueUnits": "millicore",
```

- **Improvement:**

Fix Version: 8.0.4

Network information will now be returned as part of the `PMEntityAspectDTO`. The below example is the format within the DTO:

```
{
  "physicalMachineAspect": {
    "dedicatedFailoverHost": false,
    "cpuModel": "Intel(R) Xeon(R) CPU           X5355  @ 2.66GHz",
    "connectedNetworks": [
      "Broadcom BCM5708C NetXtreme II GigE (NDIS VBD Client) #46 - Virtual Switch",
      "10.10.64.0/24-122-vlan_test"
    ],
    "type": "PMEntityAspectApiDTO"
  }
}
```

- **Improvement:**

Fix Version: 8.0.2

Customer Issue 113211

For actions, the `ActionApiDTO` now contains the parameter `actionID`. This ID will remain constant, even when the same action is generated multiple times. The UUID of the action itself will change, but the `actionID` parameter will remain the same.

- **Improvement:**

Fix Version: 8.0.2

Fix Version: 8.0.3

Customer Issue 111820,112206

For `ActionApiDTO` and `LogEntryApiDTO`, the `reasonCommodity` parameter has been deprecated and replaced by `reasonCommodities`, which will now return an array of commodities. This value will be populated only when the action was caused by an underutilized or overutilized commodity.

For `ActionApiDTOs`, the `resizeToValue` parameter has been deprecated and replaced by `newValue`

For on-premises resize actions, the `currentEntity` and `newEntity` both referred to the same object. Instead, they have been replaced with the `target` parameter.

- **Improvement:**

Fix Version: 8.0.3

When creating a policy for containers, the group of settings applicable has been renamed from `container` to `containerSpec`.

The `containerSpec` policy settings now include `RATE_OF_RESIZE`, `usedIncrement_Container_VCPU`, and `usedIncrement_Container_VMEM`. These settings are explained in more detail in the API Guide.

- **Improvement:**

Fix Version: 8.0.3

Customer Issue 112656

In 8.0.3 we introduced the common proxy configuration for a subset of probes, which will cause changes in target fields related to proxy settings.

proxy -> proxyHost

port -> proxyPort

proxyUser -> proxyUsername

If you are using any scripts which creates or modifies targets with the proxy setting, please update them.

The list of affected types:

TYPE => FIELDS TO UPDATE

----- => -----

AWS => proxy,port,proxyUser

AWS Billing => proxy,port,proxyUser

AWS Cost => proxy,port,proxyUser

Azure Subscription => proxy,port,proxyUser

Azure Cost => proxy,port,proxyUser

Azure EA => proxyUser

Azure Service Principal => proxyUser

GCP => proxy,port,proxyUser

GCP Cost => proxy,port,proxyUser

Pivotal Ops Manager => proxy

ServiceNow => proxyUser

AppInsights => proxy,port,proxyUser

AWS Lambda => proxy,port,proxyUser

Azure Wasted Volumes => proxy,port,proxyUser

Intersight => proxy

Intersight UCS => proxy

Intersight Hyperflex => proxy

- **Improvement:**

Fix Version: 8.0.2

When retrieving cluster statistics, providing a future date for the `startDate` parameter, the API will return projected statistics for the cluster at the requested time.

Additionally, if a `startDate` is not provided, it will be set to the current time by default.

- **Improvement:**

Fix Version: 8.0.2

The Business User entity now has an associated aspect that will return the current session list for the associated Business User.

- **Improvement:**

Fix Version: 8.0.1

Customer Issue 112992

When searching for business accounts using the `/search` endpoint, you can now filter based on name using the query parameter. Previously, this functionality was not implemented for business accounts.

- **Improvement:**

Fix Version: 8.0.1

When an entity is purchasing commodities from multiple providers, the display name for the aggregated statistic is now `FROM: MULTIPLE PROVIDERS`.

- **Fixed Issue:**

Fix Version: 8.0.4

The following legacy action states have been removed and are no longer valid values: `PENDING_ACCEPT`, `REJECTED`, `PRE_IN_PROGRESS`, `POST_IN_PROGRESS`, `RECOMMENDED`, `DISABLED`, `ACCOUNTING`

- **Fixed Issue:**

Fix Version: 8.0.3

Fix Version: 8.0.4

When you create a reservation (to place workloads), you can define Don't Place policies for the affected scope. However, the reservation calculation ignores the Don't Place constraints.

- **Fixed Issue:**

Fix Version: 8.0.4

In the `ScopeUuidsApiInputDTO`, the parameter `topologyContextId` has been renamed to `marketId` for the purpose of parameter normalization.

- **Fixed Issue:**

Fix Version: 8.0.2

Previously, the `GET /businessunits/uuid/relatedBusinessUnits` request ignored the requested relationship, and would return all child, sibling, and parent accounts.

This request now respects the requested relationship type when returning results.

- **Fixed Issue:**

Fix Version: 8.0.1

For configuration of Database policies, the user interface enables you to specify **Scaling Target VCPU Utilization** and **Scaling Target VMEM Utilization**. However, these settings are not used for Database policies, and should be removed.

The API no longer accepts databases for calls to work with vcpu and vmem. These no longer accept the `entityType.DATABASE` value.

- **Fixed Issue:**

Fix Version: 8.0.1

When creating policis via the API, you can now create policies of the following types:

- `MUST_RUN_TOGETHER`
- `MUST_NOT_RUN_TOGETHER`

- **Fixed Issue:**

Fix Version: 8.0.1

When using the SwaggerUI to view DTO models, some nested DTOs would not display properly.

- **Fixed Issue:**

Fix Version: 8.0.1

The `PUT /settings/{settingsManager_Uuid}/{setting_Uuid}` request now correctly updates default entity settings.

Additionally, the `entityType` parameter is now required when adjusting non-global settings.

- **Known Issue:**

Fix Version: 8.0.4

In order to execute cross-VC migrations as a non-admin user, you must have the following permissions enabled for the user account in both origination and destination vCenters:

- Virtual Machine: Edit Inventory, Create From Existing (Move, Register, Remove, Unregister sub-options), Create New
- Datacenter: Reconfigure Datacenter
- Network: Assign Network

- **Known Issue:**

Fix Version: 8.0.1

Customer Issue 112516

When requesting `numVMs` and headroom stats (such as `MemHeadroom`), the results will include different timestamps: Midnight, representing the headroom stats, and the time of the last discovery representing the `numVMs` stats.

- **Known Issue:**

Fix Version: 8.0.2

When you request STATS from the REST API, you can execute a POST for `/entities/{entityId}/stats` or you can request `stats`. The returned data gives different date formats depending on which request you make.

- **Known Issue:**

Fix Version: 8.0.1

You may now add ActionScript targets from both the Target Addition dialog in the UI and the Turbonomic API.

- **Known Issue:**

Fix Version: 8.0.1

Under some circumstances, the logs can show the following error:

The following settings don't have a mapping in the API component. Not returning them to the user. Settings: [remainingGcCapacityUtilization, responseTimeCapacity, autoSetResponseTimeCapacity, transactionsCapacity, autoSetTransactionsCapacity]

This occurs because these settings have been deprecated.

- **Known Issue:**

Fix Version: 7.22.2

Customer Issue 113061

The naming format for the nightly plan average template name has changed. Originally it began with `AVG:` and now in 7.22.6 the format is `{vCenter name}::AVG:`. Note that the 7.22.X API Guide does not document this change.