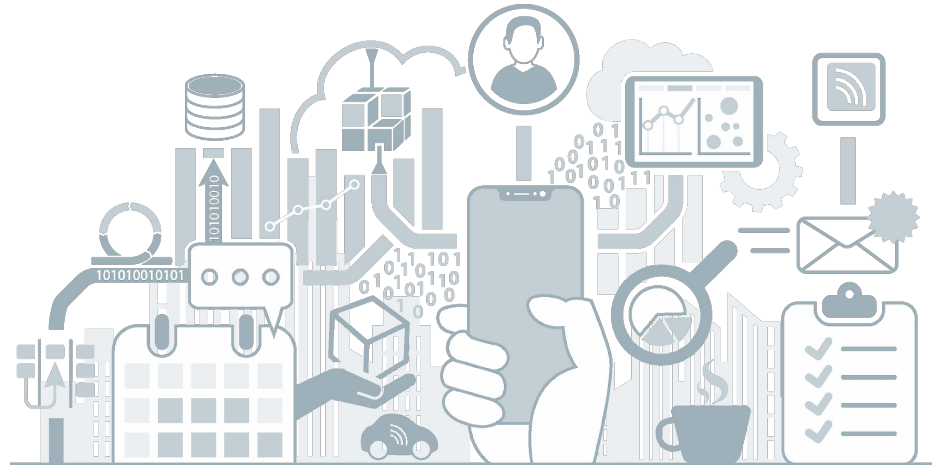# Changes to the JSON v10 Endpoint Format

Overview

- **Current and Future JSON v10 Behavior**

- **Likely Affected Areas**

- **Inspecting Previously Collected Data**

- **Future Proofing Current Integrations**

- **Frequently Asked Questions**

Current and Future JSON v10 Behavior

Current Behavior

Elements of the following types will show a value of **zero** when the field not filled out on the form, resulting in an empty value in the database.

- Number
- Counter
- Range
- Timer

Future Behavior

The aforementioned element types will be represented as **null** when the field is empty in the database.

Integrators must be aware that…

- The aforementioned element types are no longer guaranteed numeric data types
- There is a difference between an empty field (null) and an entered value of zero.

Current Sample JSON Feed

```
{
  "number_element": 0,
  "counter_element": 0,
  "range_element": 0,
  "timer_element": 0
}
```

Future Sample JSON Feed

```
{
  "number_element": null,
  "counter_element": null,
  "range_element": null,
  "timer_element": null,
}
```

Likely Affected Areas

There are two broad categories of likely affected areas: (1) data analysis on previously collected data, (2) automated integrations for future collected records.

Previously Collected Data

Data that has been previously collected and analyzed may have unknowingly treated empty fields as data collected with the value of zero.

The following scenarios are likely affected areas:

- Calculating Total Time
- Calculating Average Count
- Calculating Count of Responses
- Business Logic Based on the Presence of a Response

Based on the platform used and present formulas, previous analytics may have errant calculations.

Automated Integrations

Integrations that do not explicitly check for appropriate data types or assume all values for the affected element types will be a numeric data type may produce errors once the change is made.

The following scenarios are likely affected areas:

- Performing Arithmetic
- Rounding Numeric Values
- Comparisons Between Numeric Values
- Using Native Methods to Numeric Data Types

Based on the execution and error handling, existing integrations may require updating to prevent interruptions and broken workflows.

Inspecting Previously Collected Data

Use the following checklist and examples as a starting point in evaluating your previously collected data. Each item has sample formulas that are likely to be affected.

❏ Do Excel Workbooks or other analytics software determine the count of responses based on a value being present or must the value be non-zero?

```
=COUNT(A5:F5)              =COUNTIF(A5:F5,">0")        =COUNTBLANK(A5:F5)
```

❏ Do Excel Workbooks or other analytics software calculate average scores based on the count of values in a column?

```
=AVERAGE(A2:A1000)    vs    =SUM(A2:A1000) / COUNTIF(A2:A1000,">0")
```

❏ Are business decisions being made based on collected or derived data?

```
=VLOOKUP(A2,:A10:C20,2)    =IF(ISBLANK(A2),"Pass","Fail")
```

Future Proofing Current Integrations

Use the following checklist and examples as a starting point in evaluating and future proofing your integrations. Sample code improvements are provided for each scenario.

☐ Verify that a value exists in the field before executing calculations

```
total_time += current_timer
```
⟹
```
if(current_timer != null) {
    total_time += current_timer
}
```

☐ Verify that a field is the expected data type before treating it as such

```
cost = price.toFixed(2)
```
⟹
```
if(!isNaN(price)) {
    cost = price.toFixed(2)
}
```

Frequently Asked Questions

When will the change go into effect?
We will be including this change in our first server release scheduled for January 13, 2021

How do I know if this affects me?
We searched for customers who met two criteria: form has active JSON v10 endpoints and the affected elements.

Do you have any customer-specific additional details?
We can generate a report with all affected element names/ids including their form name/id and profile id as well. Please work with the Customer Success team if you would like a copy of this report.

Can Zerion help with updating integrations?
We want to whatever we can to facilitate the updating of integrations. In some cases, we may be able to provide guidance and even implementation support; however, some integrations may involve skill sets that the team is not confident in.

How can we prevent this in the future?
Mistakes happen, but we will always be as transparent as possible while learning from those mistakes to ensure that they don't happen again.