

# Supplier References

## Overview

Suppliers provide access to data and other values in a simple but flexible manner, giving apps access to information they would not normally have.

They are mostly used for apps made by [ServiceRocket](#), such as:

- [Reporting for Confluence app](#)
- [Scaffolding Forms and Templates app](#)
- [Salesforce & Confluence Server Connector app](#)

However, they can also be used by any compatible app, such as Comala Document Management. In addition, Comala Document Management provides its own Supplier – the [Workflow Supplier](#) – which can be used in ServiceRocket apps and any other compatible app.

## Where can they be used

They can be used in any macro that supports [Value References](#) or [Conditions](#) – see [Conditions, Content and Value References](#) for a list.

## Available suppliers

- [Comala Workflow Supplier](#)
- [Metadata Supplier](#) – see also: [Metadata references](#)
- [ServiceRocket Suppliers](#)

## How to use them

First, you must install the [Reporting for Confluence app](#) – this provides a numerous Suppliers, but more importantly it enables their use via [Parameter Injection](#).

You can access information from any ServiceRocket-compatible Supplier by using a [Supplier Keychain](#), without the "%" symbols, in a [Value Reference](#).

For example, if you want to display a message when a page is updated, but only if that page has child pages, you could use the `children` key of the [Page Supplier](#). It will return a list (a collection), which can be inspected using a [Collection Supplier](#) to determine the number of child pages via its `size` key. We can use this in a custom [Condition](#) on a [{trigger} macro](#) and also in the body of a [{set-message} macro](#) like so:

```
{workflow:name=Check child pages}
  {state:Test|description=Update the page to test the trigger}
  {state}
  {trigger:pageupdated|state=Approved|@content:children > size@=!0}
    {set-message}Please check the content of the @content:children > size@ child page(s){set-message}
  {trigger}
{workflow}
```

## All examples

- [Make tasks disable a review](#) — Two ways to use tasks to disable a review. The first way uses a precursor task state where the tasks can be set and completed. The second example uses a [Value Reference](#) as a [condition](#) to check that all tasks are complete. For the [value reference](#) method, you will **need** the [Reporting for Confluence app](#) in addition to Comala Document Management.
- [Scaffolding app - Retrieve list-data via supplier reference](#)

## See also

External Links:

- [Supplier Documentation](#)
- [Developer Guide for creating Suppliers](#)

Integration Guides:

- [ServiceRocket Reporting for Confluence app](#)
- [ServiceRocket Scaffolding Forms and Templates app](#)
- [Workflow Supplier](#)

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