

# Custom fields to provide additional information about a test case

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**Pre-requisite** - Basic Smart reporting API implementation in your framework.

Perfecto provides standard information regarding test case execution, which can be used to analyze and group test case(s). For example: operation system version, device name, status of test cases, and so on. This metadata can be utilized for efficient test execution analysis and to group test cases. For more information on standard reporting fields, see [Access and navigate the Test Analysis UI](#).

Perfecto's Smart Reporting lets you define custom-field <Key, Value> pairs to provide additional information regarding the test case, for example the name of test script's author. This information can be useful for the maintenance of test script, and so on.

You can define custom fields using:

- **The Perfecto execution context:** The Perfecto reporting client initialization
- **The test context:** Test start/stop method calls

**Note:** In case of conflict in keys, the test context has higher precedence.

The following code samples illustrate how to implement custom fields.

**Using the Perfecto Execution context**

### Java sample code

```
// Define other fields like tags, project, and job details.
Project project = new Project(reportConstants.getProjectName(), reportConstants.getProjectVersion());

Job job = new Job(reportConstants.getJobName(), Integer.parseInt(reportConstants.getJobVersion()))
.withBranch("awesome_vcs_branch");

// create a list of custom fields.
List<CustomField> customFields = new ArrayList<CustomField>();

// Define a custom field with Key value pair.
CustomField author = new CustomField("author", "sdet1@awesomecompany.com");

// Add the custom field to custom field collection.
customFields.add(author);

// Perfecto Execution Context definition.
PerfectoExecutionContext execContext = new PerfectoExecutionContext.PerfectoExecutionContextBuilder()
.withContextTags(tags) // Add tags to Perfecto Execution Context
.withProject(project) // Add Project details to Perfecto Execution Context
.withJob(job) // Add Job details to Perfecto Execution
Context
.withCustomFields(customFields) // Add Custom fields to Perfecto Execution Context
.withWebDriver((WebDriver) driver).build();
```

### Javascript sample code

```
// Define CustomFields Object
var customFieldsObject = {
    'author': 'sdet1@awesomecompany.com'
};

// Initializing Perfecto Execution Context
var executionContext = await new Reporting.Perfecto.PerfectoExecutionContext({
    webdriver: browser.driver,
    job: new Reporting.Model.Job({
        jobName: this.pJobName,
        buildNumber: this.pJobNumber,
        branch: this.pBranchName
    }),
    customFields: customFieldsObject,
    tags: ["awesome"]
})

// Initializing Reportium client
browser.reportingClient = await new Reporting.Perfecto.PerfectoReportingClient(executionContext);
```

Some interesting use case of custom field - [Custom field use case](#)