

Configuring BOM Reports

To access or create a Report, select **Administration Reports** from the TOC.

Understanding BOM Report Implementation

The high-level flow of the BOM Report implementation is as follows:

- When a user executes a BOM Report, its corresponding client method is called.
- The server method **PE_ExecuteQdReportMethod** is run through the client method.
- **PE_ExecuteQdReportMethod** calls the Query Definition (QD) for the selected BOM Report.
- The QD provides queries to retrieve report-specific data from the database.
- **PE_ExecuteQdReportMethod** parses results from the QD execution, and performs report specific logic, such as quantity roll-up. The resulting data in XML format includes level property and is in its final order so it can be transformed into HTML in a hierarchical view.
- The report stylesheet parses data in XML format into HTML using XSLT.

Client Methods and Query Definitions for BOM Reports

BOM Report	Client Method	Query Definition
BOM Costing Report	PE_executeCostingRepAndApplyXslt	PE_costingReport
Multilevel BOM Report	PE_execMultilevelRepAndApplyXslt	PE_multilevelReport
BOM Quantity Rollup Report	PE_execQuantityRepAndApplyXslt	PE_quantityReport

The standard BOM Reports can be customized to add, remove, replace, and reorder columns. To customize a standard BOM report, configure:

1. Query Definition (QD) to retrieve necessary properties.
2. Stylesheet to display these properties.

Important
Customization examples are provided in the Appendix.

Setting the Number of Rows in BOM Reports



By default, the BOM Reports are limited to 1000000 rows. Opening a larger BOM structure causes an error.

Error



The selected part has a very large BOM structure, and the report cannot be displayed. Please select a sub-structure to run this report.



OK

If your company manages smaller BOM structures, you can limit BOM Reports to a specific number of rows using the following procedure:

1. Search for the **PE_ExecuteQdReportMethod** Method and open its item view for editing.
2. Go to the **PE_ExecuteQdReportMethod** Method editor.
3. Change **1000000** to the **specific number** at all occurrences of the following **if** statement:

```
if (_partsTree.Count >= 1000000)
{
    throw new Aras.Server.Core.InnovatorServerException(errorLookup.Lookup("PE_ReportIsVeryLarge"));
}
```

PE_ExecuteQdReportMethod

The screenshot shows the 'PE_ExecuteQdReportMethod' Method editor. The toolbar at the top includes buttons for 'Save', 'Done', 'Discard', and other editing functions. Below the toolbar, there are fields for 'Name' (PE_ExecuteQdReportMethod), 'Comment', and 'Execution allowed to'. The code editor displays the following code:

```
301 if (_partsTree.Count >= 1000000)
302 {
303     throw new Aras.Server.Core.InnovatorServerException(errorLookup.Lookup("PE_ReportIsVeryLarge"));
304 }
```

4. Click **Done** on the **PE_ExecuteQdReportMethod** Method toolbar and close its item view.

