

Integr8tor

Customer Parameters Info

Integr8tor v8.3
Technical Note
Software Product Group
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Technical note on Customer Parameters in Integr8tor v8.3.1

With the introduction of Integr8tor version 8.3.1 there will be some changes in the customer parameter handling. These custom parameters are also known as process parameters.

As of version 8.3.1 these custom parameters are purely informational, they will not have any effect in the handling of jobs inside Integr8tor.

Introduction of new standard parameters

It is now possible to add the PCB Thickness, SolderMask color and Legend color via the various inputs, these three parameters have become standard parameters.

- Via the submit menu in the Cockpit.
- Via E-mail with a code in the subject.
- Via Web Integration.

These parameters are also available in the 'Modify Job' and the 'Resubmit Job' menu.

It is now also possible to add multiple jobs via the submit menu, an option which was in the previous versions only available in the E-mail input.

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Customer Parameters slide in Release Notes

Why we made these changes?

PCB Thickness, SolderMask Color and Legend Color were historically defined as a Custom Parameter in the QedConfig.xml file. Its value was never used for any calculation or image generation. It was mere 'information' about the PCB.

In a second phase, we agreed to use some Custom Parameters with a specific id for our calculations and image generation.

Problems raised when for example the PCB Thickness was modified in the Cockpit (Layer Structure Editor or Thickness Editor). At that moment, only the internal PCB Thickness parameter was altered. That is why both values (the Custom Parameter and the Standard Parameter) could be different in the QED report and Qed.xml file.

To avoid those problems, we decided to no longer misuse any Custom Parameter to store a Standard Parameter. To make it still possible for the users to have these three parameters as input parameters and to have correct results we promoted these parameters as Standard parameters.

These new Standard parameters will be available in all input menus, the "Modify Job" and "Resubmit Job" menu.

Be aware it still is possible to add the same parameters also as a custom parameter into the QedConfig.xml file, but these will never be used by Integr8tor for any calculation. They are pure informative. Adding them anyway can result in different values for these parameters on the QED report and the qed.xml file.

What does this mean for you as a customer?

On INPUT

If you do NOT use these parameters you do not need to do anything! Of course, you can make use of the newly added Standard parameters in the various input, modify job and resubmit job menus.

If you are using these parameters you need to do some minor changes when using one of the following scenarios:

- Submit / Modify / Resubmit Job.
No configuration changes are required.

Submit Job

Modify Job

Resubmit Job

In both the Modify Job and Resubmit Job menu you will see the previously entered parameters.

- PDF Form.

If you are using a customized PDF form which is created by Ucamco then we will sent you an updated version of the PDF form.

If you use a copy of the default PDF form available the installation folder then you need to take a new copy of this file after you updated to Integr8or version 8.3.1.

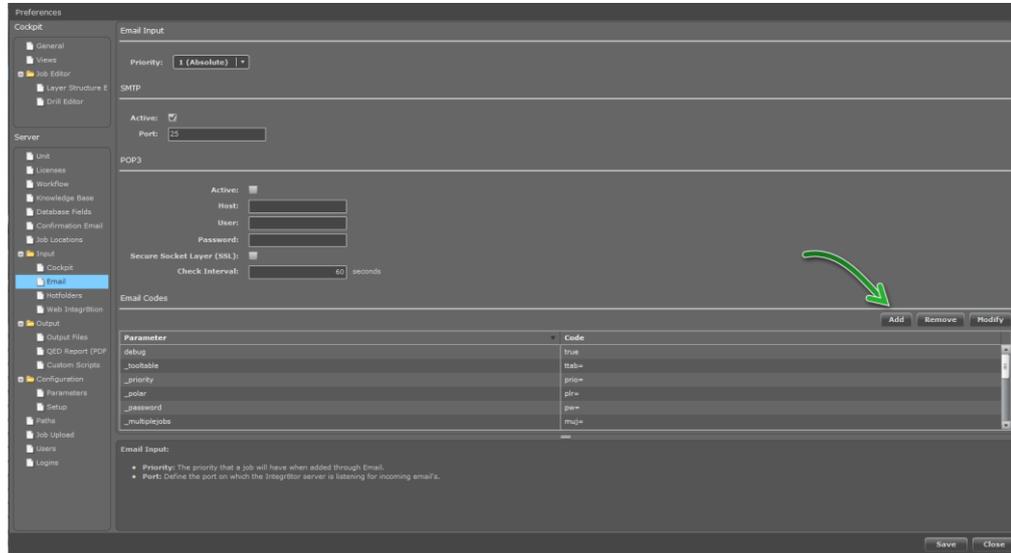
If you modified this PDF form yourself then you should check/change the following three parameters:

```
/Xjob/Requested/RFQ/InputParams/Param[@name='I8_Thickness']  
/Xjob/Requested/RFQ/InputParams/Param[@name='I8_SolderMaskColor']  
/Xjob/Requested/RFQ/InputParams/Param[@name='I8_LegendColor']
```

- Email input.

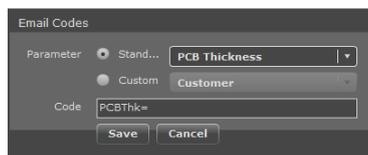
If you want to use the three new internal parameters as a code in the Email subject field then you need to make some changes in the Email preferences.

Open the preferences in the cockpit (log in as administrator) and go to the section input email.



Press the add button under the email codes section.

You will see the following submenu:



Choose Standard and the parameter you want to add from the drop down list. Define the code you want to use for this parameter en press save.

Repeat this for all codes you want to create.

- HotFolder.
No configuration changes are required.
- Web Integration.
The .xjd file in the defined webintegration folder requires also a modification, the parameter I8_PcbThickness needs to be modified to I8_Thickness.

For all inputs it is also possible to define defaults in the defaults.xjd file.

You need to use the following Parameter names:

```
<Xjd>
  <Parameters>
    <Parameter name="I8_Thickness">2.0</Parameter>
    <Parameter name="I8_SolderMaskColor">blue</Parameter>
    <Parameter name="I8_LegendColor">white</Parameter>
  </Parameters>
</Xjd>
```

On OUTPUT

- QED pdf report.

The three parameters are all available in the Summary – General section of the report.

Summary - General			
PCB Size	33.500 mm x 43.000 mm	Copper Layers	2
PCB Thickness	1.6000 mm	Solder Mask	Both
Customer Panel Size		Solder Mask Color	Green
SMD Pads Top	35	Legend	Top Only
SMD Pads Bottom	15	Legend Color	White
SMD Density Top	243 SMD/dm ²	Paste	Top Only
SMD Density Bottom	104 SMD/dm ²	Peeloff Mask	None
Number of Nets	17	Carbon Mask	None
Drill Hole Density	146 Holes/dm ²	Electrical Test	Double Sided
Holes in SMD Pads	No	Max. Aspect Ratio on PTH	5.3
Edge Connectors	No	Vias Covered by Solder Mask	Both

- QED xml.

The three values appear in the Summary section:

```
<Summary>
  <SummaryParameter name="boardsize">33.5000</SummaryParameter>
  <SummaryParameter name="boardsize">43.0000</SummaryParameter>
  <SummaryParameter name="copperlayercount">2</SummaryParameter>
  <SummaryParameter name="pcbthickness">1.6000</SummaryParameter>
  <SummaryParameter name="soldermask">4</SummaryParameter>
  <SummaryParameter name="customerpanelsize" />
  <SummaryParameter name="legend">1</SummaryParameter>
  <SummaryParameter name="smdpaddstop">35</SummaryParameter>
  <SummaryParameter name="paste">1</SummaryParameter>
  <SummaryParameter name="smdpadsbottom">15</SummaryParameter>
  <SummaryParameter name="peeloffmask">0</SummaryParameter>
  <SummaryParameter name="smddensitytop">243</SummaryParameter>
  <SummaryParameter name="carbonmask">0</SummaryParameter>
  <SummaryParameter name="smddensitybottom">104</SummaryParameter>
  <SummaryParameter name="electricaltest">Double Sided</SummaryParameter>
  <SummaryParameter name="numberofnets">17</SummaryParameter>
  <SummaryParameter name="drillholedensity">146</SummaryParameter>
  <SummaryParameter name="minimumaspectratio">5.3</SummaryParameter>
  <SummaryParameter name="maskcolor">Green</SummaryParameter>
  <SummaryParameter name="legendcolor">White</SummaryParameter>
  <SummaryParameter name="holesinpad">No</SummaryParameter>
  <SummaryParameter name="viascoveredbysoldermask">4</SummaryParameter>
</Summary>
```

Note that this Summary section is for convenience only, the particular often more concrete values, preferably to be taken elsewhere in the QED XML file in case the XML schema is used for mapping or import.