**Introduction**

Paint Mixer 2000 is a brand new integrated hardware for Mitre 10 (provided by Ertim) which will allow users to mix a variety of shades of paint.

The hardware includes a touch screen menu, a camera for sampling colour (provided by customer), an automated mixing pallet (to add colour), a vibrating platform (to mix) and a second camera to “read” the mixed paint’s colour.

[http://t0.gstatic.com/images?q=tbn:ANd9GcQpQXJw_RC3caAq9mtqYGeVJiB6V1LnR99NyLA0bPMRP8YmJwU2u3xm9gQ](http://www.google.co.nz/imgres?imgurl=http://upload.wikimedia.org/wikipedia/commons/thumb/b/b1/Gnome-application-exit.svg/48px-Gnome-application-exit.svg.png&imgrefurl=http://commons.wikimedia.org/wiki/User_talk:El_Carlos&usg=__RDtza7N1N5NzbFXtb85utHkcuA0=&h=48&w=48&sz=2&hl=en&start=2&zoom=1&um=1&itbs=1&tbnid=peRYwQhrQqu25M:&tbnh=48&tbnw=48&prev=/search?q=exit&um=1&hl=en&rls=com.microsoft:*&tbs=isz:i&tbm=isch&ei=og6QTaTXDNvKcJqW7YkK) **Entry Conditions**

* System Functional Integration testing has been run by Ertim
* No outstanding known Severe or High level defects
* Reporting of any encountered defects by Ertim

[http://t0.gstatic.com/images?q=tbn:ANd9GcR5p6XYk0upOpz5AWUZq63YF1Kg_LiwaEDbAczJQ_oKTr7dyovF4JwczA](http://www.google.co.nz/imgres?imgurl=http://ihavetofindpeach.com/puzzles/mega_man/the_writing_on_the_wall/exit.jpg&imgrefurl=http://ihavetofindpeach.com/puzzles/mega_man/the_writing_on_the_wall/door.php?loc=6-2&usg=__bq7pcdMwIfija0EY1F51OdXJcD0=&h=50&w=50&sz=4&hl=en&start=17&zoom=1&um=1&itbs=1&tbnid=wieIkpQcK8b0bM:&tbnh=50&tbnw=50&prev=/search?q=exit&um=1&hl=en&rls=com.microsoft:*&tbs=isz:i&tbm=isch&ei=qA-QTd-nBIK4cePgjPcJ) **Exit Conditions**

* All In-Scope testing has been completed
* No unresolved known Severe or High level defects
* Management and development has agreed the unresolved Medium or Low level defects are acceptable impact

[http://t3.gstatic.com/images?q=tbn:ANd9GcSgFuIVes48msFeqN8L6APT0R6ui9sGAFZZGfqZ00TDVeVaByuIyw](http://www.google.co.nz/imgres?imgurl=http://www.britz.co.nz/SiteCollectionImages/Core/4people.gif&imgrefurl=http://www.britz.co.nz/campervan-hire-new-zealand&usg=__tgXBKGOnzEgRWwuiihhf4t9BlOE=&h=21&w=35&sz=1&hl=en&start=7&zoom=0&um=1&itbs=1&tbnid=NTSje_gJyLin_M:&tbnh=21&tbnw=35&prev=/search?q=people&um=1&hl=en&rls=com.microsoft:*&tbs=isz:i&tbm=isch&ei=Yg-QTYbMIMXzcfqs0IkK) **People**

* Project Management – James Munroe
* Business Analysts – Levi Olsen
* Senior Tester – Martin Armstrong
* Payment Services Testers – TBD
* System Functional Integration Tester – Jane Johnson (Ertim)
* Developers - Ertim

[](http://www.google.co.nz/imgres?imgurl=http://www.powerdb.org/_/rsrc/1274921890604/issues/icon_risks.gif&imgrefurl=http://www.powerdb.org/issues&usg=__Pxb9rNLJiWIFOclJNI0B1Exs6tg=&h=64&w=64&sz=3&hl=en&start=8&zoom=0&um=1&itbs=1&tbnid=Rwv1xUqDyAgxRM:&tbnh=64&tbnw=64&prev=/search?q=risks&um=1&hl=en&rls=com.microsoft:*&tbs=isz:i&tbm=isch&ei=DxGQTbr2O4fCceqJhYAK) **Risks**

* Provision of enough paint samples end-to-end testing will require mixing of paint [Stock management]
* Staff absence may cause delays on any solution [Project management]

[](http://www.google.co.nz/imgres?imgurl=http://www.maczot.com/prodpics/732_periscope.png&imgrefurl=http://maczot.com/discuss/2008/07/14/periscope-from-webcam-to-securitycam/&usg=__82tGjDIohRec76b8M6uYhPiLuvU=&h=128&w=128&sz=26&hl=en&start=12&zoom=0&um=1&itbs=1&tbnid=M-N5ug5vi4HOtM:&tbnh=91&tbnw=91&prev=/search?q=periscope&um=1&hl=en&rls=com.microsoft:*&tbs=isz:i&tbm=isch&ei=bxGQTc7LCYG8cfWQlPkJ) **In-Scope**

Focus on user interface & “operator experience”,

* GUI testing of control system
* Paint matching in simple scenarios
* Photo capture in complex scenarios – complex pictures, poor lighting
* Mixing of requested colours

 **Out-Of-Scope**

System Functional Integration testing to be done by Ertim including testing of communications between hardware components.

[](http://www.google.co.nz/imgres?imgurl=http://wiki.mandriva.com/en/uploads/b/b8/Server-mdk.png&imgrefurl=http://wiki.mandriva.com/en/Category:Server&usg=__0J4UARvP03TeM5tn4NLrw69Q5Zc=&h=128&w=128&sz=9&hl=en&start=4&zoom=1&um=1&itbs=1&tbnid=fWxAHODZ_5sjMM:&tbnh=91&tbnw=91&prev=/search?q=server&um=1&hl=en&rls=com.microsoft:*&tbs=isz:i&tbm=isch&ei=gReQTazOE4OrcebatYYK) **Test Environment**

The test area will be in the main storehouse, and the mock-equipment will include all required peripherals.

**Paint Mixer 2000**

**Test Plan**

[](http://www.google.co.nz/imgres?imgurl=http://joh.deworks.net/blog/wp-content/uploads/2007/12/alarm-clock64.png&imgrefurl=http://www.pseudoberries.com/blog/?cat=22&usg=__FLJQdx-3wgKTqs1pePo0mW0kOE0=&h=64&w=64&sz=5&hl=en&start=9&zoom=1&itbs=1&tbnid=SZK1RXAsLy-i1M:&tbnh=64&tbnw=64&prev=/search?q=clock&hl=en&gbv=2&tbs=isz:i&tbm=isch&ei=lOuQTa2ABoKkca3xtYUK) **Timescales**

Expected testing estimates

* Test planning – 2 days
* Requirement analysis – 1 day
* Test scripting and preparation – 6 days
* Execute scripts and repeat testing – 7 days
* Test completion report – 1 day