



Intel-powered classmate PC
Display Switcher Driver
Test Scenario Specification

Revision History

Revision	Revision History	Date
1.0	Initial Release	March 2008

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1 Introduction

This document describes the details of the software validation scenario guidelines for the Intel-powered classmate PC product. This document is used to provide the validation scenario for the software features. It is a living document that changes over time to reflect our current understanding of the product.

1.1 Target Audience and Purpose

The target audience is third-party software vendors, who can use it to:

- Understand product requirements, usage model, and product release flow.
- Estimate effort, resource and schedules, and identify risks
- Set quality criteria and plan for testing.

1.2 Configuration

The hardware and software configuration is as follows:

- **Hardware configuration:** Second generation Intel-powered classmate PC with an Intel® 915 chipset.
- **Software configuration:** Linux* distribution with Xorg 7.3 packages installed.

2 Validation Scenario Guideline

The Display Switcher driver is a driver that switches resolutions and supports screen downscaling mode.

2.1 Test Scenario List

Scenario ID	Description
DD_DS_001	Verify the command mode to switch between 1024x768 pan mode and 800x480.
DD_DS_002	Verify the command mode to switch between 1024x768 pan mode and 800x600 downscaling mode.
DD_DS_003	Verify the command mode to switch between 1024x768 pan mode and 800x600 downscaling mode.

2.2 Test Scenarios

SCENARIO_ID	DD_DS_001	AUTO_CLASS	Manual
Purpose	Verify the command mode to switch between 1024x768 pan mode and 800x480		
Pre-conditions	The Display Switcher driver is copied to the test Intel-powered classmate PC. Intel-powered classmate PC is powered on.		
Steps	Open console and then type in xrandr -s inverted . Type in xrandr -s normal .		
Expected Result	Step 1. The screen will be switched to 800x480 normal mode. Step 2. The screen will be switched to 1024x768 pan mode.		
Post Conditions			
Remarks	Under different modes, run glxgears to test the OpenGL* 3D rendering of the driver. Under different modes, playback avi/ mpg/ wmv movie.		

SCENARIO_ID	DD_DS_002	AUTO_CLASS	Manual
Purpose	Verify the command mode to switch between 1024x768 pan mode and 800x600 downscaling mode.		
Pre-conditions	<ol style="list-style-type: none"> 1. The Display Switcher driver is copied to the test Intel-powered classmate PC. 2. Intel-powered classmate PC is powered on. 		
Steps	<ol style="list-style-type: none"> 1. Open console and then type in xrandr -s inverted. 2. Type in xrandr -s left. 3. Type in xrandr -s normal. 		
Expected Result	<ol style="list-style-type: none"> 1. The screen will be switched to 800x600 normal mode. 2. The screen will be switched to 800x600 downscaling mode. 3. The screen will be switched to 1024x768 pan mode. 		
Post Conditions			
Remarks	<ol style="list-style-type: none"> 1. Under different modes, run glxgears to test the OpenGL 3D rendering of the driver. 2. Under different modes, playback avi/ mpg/ wmv movie. 		

SCENARIO_ID	DD_DS_003	AUTO_CLASS	Manual
Purpose	Verify the command mode to switch between 1024x768 pan mode and 800x600 downscaling mode.		
Pre-conditions	<ol style="list-style-type: none"> 1. The Display Switcher driver is copied to the test Intel-powered classmate PC. 2. Intel-powered classmate PC is powered on. 		
Steps	<ol style="list-style-type: none"> 1. Type in xrandr -s right. 2. Type in xrandr -s normal. 		
Expected Result	<ol style="list-style-type: none"> 1. The screen will be switched to 1024x768 downscaling mode. 2. The screen will be switched to 1024x768 pan mode. 		
Post Conditions			
Remarks	<ol style="list-style-type: none"> 1. Under different modes, run glxgears to test the OpenGL 3D rendering of the driver. 2. Under different modes, playback avi/ mpg/ wmv movie. 		

SCENARIO_ID	DD_DS_003	AUTO_CLASS	Manual
Purpose	Verify the command mode to switch between 1024x768 pan mode and 800x600 downscaling mode.		
Pre-conditions	Display Switcher driver is copied to the test Intel-powered classmate PC. Intel-powered classmate PC is powered on.		
Steps	Ttype in "xrandr -s right" Type in "xrandr -s normal"		
Expected Result	Step 1. The screen will be switched to 1024X768 downscaling mode. Step 2. The screen will be switched to 1024X768 pan mode.		
Post Conditions			
Remarks	Under different modes, run glxgears to test the OpenGL 3D rendering of the driver. Under different modes, playback avi/ mpg/ wmv movie.		