R0: if theme = high contrast than theme = default and magnifier on with inverse colours

If userPref **InputPref** AND environment platform = Windows Version 7 than **OutputPref**

*** Variant 1 ("old" hierarchic preference format) ***
InputPref:
```
{
   "applications": {
     " com.microsoft.windows.highContrast": {
        "id": "com.microsoft.windows.highContrast",
        "parameters": {
          " highContrastOn": {
             "value": "1",
             "path": " pvParam.dwFlags.HCF_HIGHCONTRASTON"
          }
        }
     }
   }
}
OR
{
        "applications": {
        "org.gnome.desktop.interface": {
                "id": "org.gnome.desktop.interface",
                "parameters": {
                        "gtk-theme": { "value": "HighContrast"      },
                        "icon-theme": {"value": HighContrast"      }
                }
        }
        }
}
```

OutputPref
```
{
   "applications": {
     " com.microsoft.windows.highContrast": {
        "id": "com.microsoft.windows.highContrast",
        "parameters": {
          " highContrastOn": {
             "value": "0",
             "path": " pvParam.dwFlags.HCF_HIGHCONTRASTON"
          }
```

```
                    }
                }
        },
"com.microsoft.windows.magnifier": {
            "id": "com.microsoft.windows.magnifier",
            "parameters": {
                    "Magnification": {
                    "value": 100,
                    "dataType": "REG_DWORD"
                    },
                    "ZoomIncrement": {
                    "value": 50,
                    "dataType": "REG_DWORD"
                    },
                    "Invert": {
                    "value": 1,
                    "dataType": "REG_DWORD"
                    },
                    "FollowMouse": {
                    "value": 1,
                    "dataType": "REG_DWORD"
            },
                    "FollowFocus": {
                    "value": 1,
                    "dataType": "REG_DWORD"
                    },
                    "FollowCaret": {
                    "value": 1,
                    "dataType": "REG_DWORD"
            },
                    "MagnificationMode": {
                    "value": 2,
                    "dataType": "REG_DWORD"
                    }
            }
            }
}
```

Variant 2 ("new" flat preference format):
InputPref:
```
"http://registry.gpii.org/applications/com.microsoft.windows.highContrast": [{
            "value": {       highContrastOn = 1
                    }
```

```
}]
OR (for Linux)
"http://registry.gpii.org/applications/ org.gnome.desktop.interface":  [{
        "value": {        gtk-theme = HighContrast,
                          icon-theme = Highcontrast
                }
}]
```

OutputPref (new preference format)

```
{
"http://registry.gpii.org/applications/com.microsoft.windows.highContrast":  [{
        "value": {        "highContrastOn" = 0
                }
}],
"http://registry.gpii.org/applications/com.microsoft.windows.magnifier": [{
        "value": {
                "Magnification": {
                        "value": 100,
                        "dataType": "REG_DWORD"
                },
                "ZoomIncrement": {
                         "value": 50,
                        "dataType": "REG_DWORD"
                },
                 "Invert": {
                            "value": 1,
                          "dataType": "REG_DWORD"
                },
                "FollowMouse": {
                        "value": 1,
                        "dataType": "REG_DWORD"
                },
                "FollowFocus": {
                        "value": 1,
                        "dataType": "REG_DWORD"
                },
                "FollowCaret": {
                         "value": 1,
                        "dataType": "REG_DWORD"
                },
                "MagnificationMode": {
                         "value": 2,
                        "dataType": "REG_DWORD"
```

```
            }
        }
}]
```

R5: Full Screen mode on windows magnifier cannot be applied if AERO Design is off.

If userPref **InputPref** AND environment platform = Windows Version 7 than **OutputPref**

*** Variant 1 ("old" hierarchic preference format) ***
InputPref:

```
{
        "applications": {
        " com.microsoft.windows.magnifier"": {
        "id": "com.microsoft.windows.magnifier",
        "parameters": {
                    "MagnificationMode": {
              "value": 2,
              "dataType": "REG_DWORD"
              }
          }
        },
        "com.microsoft.windows.highContrast": {
        "id": "com.microsoft.windows.highContrast",
        "parameters": {
           " highContrastOn": {
              "value": "1",
              "path": " pvParam.dwFlags.HCF_HIGHCONTRASTON"
           }
         }
      }
    }
}
OR  (for linux)
{
        "applications": {
        " org.gnome.desktop.a11y.magnifier": {
        "id": " org.gnome.desktop.a11y.magnifier",
        "parameters": {
                "screen-position": {
                "value": full-screen
                }
        }
        },
        "org.gnome.desktop.interface": {
                "id": "org.gnome.desktop.interface",
                "parameters": {
```

```
                            "gtk-theme": { "value": "HighContrast"       },
                            "icon-theme": {"value": HighContrast"       }
                    }
                }
        }
```

OutputPref

```
{
    "applications": {
        " com.microsoft.windows.highContrast": {
            "id": "com.microsoft.windows.highContrast",
            "parameters": {
                " highContrastOn": {
                    "value": "0",
                    "path": " pvParam.dwFlags.HCF_HIGHCONTRASTON"
                }
            }
        }
    },
"com.microsoft.windows.magnifier": {
        "id": "com.microsoft.windows.magnifier",
        "parameters": {
                "Magnification": {
                "value": 100,
                "dataType": "REG_DWORD"
                },
                "ZoomIncrement": {
                "value": 50,
                "dataType": "REG_DWORD"
                },
                "Invert": {
                "value": 1,
                "dataType": "REG_DWORD"
                },
                "FollowMouse": {
                "value": 1,
                "dataType": "REG_DWORD"
            },
                "FollowFocus": {
                "value": 1,
                "dataType": "REG_DWORD"
                },
                "FollowCaret": {
```

```
            "value": 1,
            "dataType": "REG_DWORD"
        },

            "MagnificationMode": {
            "value": 2,
            "dataType": "REG_DWORD"
            }
        }
        }
}
```

*** Variant 2 ("new" flat preference format): ***

InputPref:
"http://registry.gpii.org/applications/com.microsoft.windows.highContrast": [{
        "value": {   highContrastOn = 1
                }
}],
"http://registry.gpii.org/applications/com.microsoft.windows.magnifier": [{
        "value": {
        "MagnificationMode": {
                "value": 2,
                "dataType": "REG_DWORD"
                }
        }
        }]
OR (for Linux)
"http://registry.gpii.org/applications/ org.gnome.desktop.interface": [{
        "value": {   gtk-theme = HighContrast,
                        icon-theme = Highcontrast
                }
}],
"http://registry.gpii.org/applications/org.gnome.desktop.a11y.magnifier": [{
    "value": {
        "screen-position": { „value": full-screen"   }
        }]

OutputPref (new preference format)
"http://registry.gpii.org/applications/com.microsoft.windows.highContrast": [{
        "value": {   highContrastOn = 0
                }
}]
"http://registry.gpii.org/applications/com.microsoft.windows.magnifier": [{

```
"value": {
"Magnification": {                    "value": 100           },
"ZoomIncrement": {                 "value": 50              },
 "Invert": {                              "value": 1            },
"FollowMouse": {              "value": 1          },
"FollowFocus": {         "value": 1              },
"FollowCaret": {              "value": 1          },
"MagnificationMode": {  "value": 2           }
}
}]
```