

# Arduino - Manual

## Description

Arduino is an open-source electronics platform based on easy-to-use hardware and software. It's intended for anyone making interactive projects.

Package Notes/Comments – Copy to all **Notes/Comments** sections in SCCM creating package.  
Free software license.

Source file location (share or weblink):

<http://arduino.cc/en/Main/Software>

Copy source files to Software Vault share location:

\\server\share\Sources\Software Vault\Arduino

Import *Arduino\_Manual\_Install.ps1* into SCCM Client Applications as a *Script Installer*.

## **Installation program:**

Powershell.exe –executionpolicy Bypass –file "Arduino\_Manual\_Install.ps1"

## **Uninstall program:**

Powershell.exe –executionpolicy Bypass –file "Arduino\_Manual\_Uninstall.ps1"

**Detection Method:** Registry key exists.

Registry hive: HKLM

Registry key: SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall\Arduino

## **User Experience**

Installation behavior: Install for user

Logon requirement: Only when a user is logged on

Installation program visibility: Normal

Enforce specific behavior: No specific action

**Dependencies** (list redistributables, runtime, etc., available for install with SCCM):

None

## **Notes**

GUID: Arduino (32-bit)

Registry key or file path (used to check if application is installed):

HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall\Arduino

UninstallString (determines uninstall method to use):

"C:\Program Files (x86)\Arduino\uninstall.exe"

**Note:** The UninstallString is already wrapped in double quotes meaning the value can be read directly from the registry key and passed into a Cmd.exe call in the Uninstall program.

DisplayName: Arduino  
DisplayVersion: 1.0.6  
Publisher: Arduino LLC

**Note:** Arduino requires WIN7 RUNASADMIN compatibility mode.

**Note:** Uninstaller does not stop Java(TM) Platform SE binary process, preventing some files from being deleted:

- Process description: **Java(TM) Platform SE binary**
- Process name: **javaw \*32**

### Arduino\_Manual\_Install.ps1

```
<#
.SYNOPSIS
    SCCM Install program for Arduino 1.0.6 (32-bit)

.DESCRIPTION
    Install the following component(s) on window 7 x64 systems:
    - Arduino 1.0.6
    - Set WIN7 RUNASADMIN compatibility mode

.NOTES
    FileName: Arduino_Manual_Install.ps1
    Author: Jerry Senff
    Updated: 12/11/2016
    Comments: Powershell.exe -executionpolicy bypass -file
              "Arduino_Manual_Install.ps1"
#>

# Error file
$startLocation = Get-Location
$err=@()
$errorpath = '\ErrorLogs\Arduino_Manual_Install.txt'
$errFilePath = ${env:SystemDrive} + $errorpath

# Install Arduino 1.0.6
$Arduino = 'Arduino 1.0.6'
$ArduinoInstall = 'arduino-1.0.6-windows.exe'
$ArduinoRegkey =
    'HKLM:SOFTWARE\Wow6432Node\Microsoft\windows\CurrentVersion\Uninstall\Arduino'

# Set WIN7 RUNASADMIN compatibility mode
$ArduinoExePath = ${env:ProgramFiles(x86)} + '\Arduino\arduino.exe'
$CompModePath = 'HKLM:SOFTWARE\Microsoft\Windows
    NT\CurrentVersion\AppCompatFlags\Layers'
$CompMode = 'WIN7 RUNASADMIN'

Write-Host ""
Write-Host "*****"
Write-Host ""
Write-Host "$Arduino Uninstall"
Write-Host ""
Write-Host "Purpose: Remove the following components:"
Write-Host "    - $Arduino"
Write-Host "    - Set $CompMode compatibility mode"
Write-Host ""
```

```

# Install Arduino 1.0.6
set-location $startLocation
Write-Host "*****"
Write-Host ""
Write-Host "Checking for $Arduino installation..."
Write-Host ""

If ((Test-Path -Path $ArduinoRegkey) -ne 'True')
{
    Write-Host "    $Arduino is not installed."
    Write-Host ""
    Write-Host "Installing $Arduino..."
    Write-Host ""
    Write-Host "Command: $ArduinoInstall"
    Write-Host ""
    Start-Process -FilePath $ArduinoInstall -ErrorVariable +err -Verb Open -wait
    Write-Host ""
    Write-Host "    $Arduino install complete."
    Write-Host ""
}
Else
{
    Write-Host "    $Arduino is already installed."
    Write-Host ""
}

Start-Sleep 5

# Set WIN7 RUNASADMIN compatibility mode
Write-Host "*****"
Write-Host ""
Write-Host "Setting $Arduino compatibility mode to $CompMode..."
Write-Host ""
Write-Host "Command: New-ItemProperty -Path $CompModePath -Name $ArduinoExePath -"
Write-Host "    Value $CompMode"
Write-Host ""
New-ItemProperty -Path $CompModePath -Name $ArduinoExePath -Value $CompMode
Write-Host ""
Write-Host "    $Arduino compatibility mode setting complete."
Write-Host ""

Start-Sleep 5

$err | Out-File $errFileLocation
Write-Host "Log file location = $errFileLocation"
Write-Host ""

Start-Sleep 5

```

### Arduino\_Manual\_Uninstall.ps1

```

<#
    .SYNOPSIS
        SCCM Uninstall program for Arduino 1.0.6 (32-bit)

    .DESCRIPTION
        Remove the following component(s) from window 7 x64 systems:
        - Stop the Java process if running
        - Arduino 1.0.6
        - WIN7 RUNASADMIN compatibility mode setting

    .NOTES
        FileName: Arduino_Manual_Uninstall.ps1
        Author: Jerry Senff
        Updated: 12/11/2016
        Comments: Powershell.exe -executionpolicy bypass -file
                "Arduino_Manual_Uninstall.ps1"
#>

```

```

# Error file
$startLocation = Get-Location
$err=@()
$errorpath = '\ErrorLogs\Arduino_Manual_Uninstall.txt'
$errFileLocation = ${env:SystemDrive} + $errorpath

# Stop the Java process if running
$JavaDescription = 'Java(TM) Platform SE binary'
$JavaProcess = 'javaw *32'

# Uninstall Arduino 1.0.6
$Arduino = 'Arduino'
$ArduinoRegkey =
    'HKLM:SOFTWARE\Wow6432Node\Microsoft\windows\CurrentVersion\Uninstall\Arduino'
$Cmd = ${env:SystemRoot} + '\System32\cmd.exe'

# Remove WIN7 RUNASADMIN compatibility mode setting
$CompModePath = 'HKLM:SOFTWARE\Microsoft\windows
    NT\CurrentVersion\AppCompatFlags\Layers'
$CompSetting = '*arduino.exe'
$CompMode = 'WIN7 RUNASADMIN'

Write-Host ""
Write-Host "*****"
Write-Host ""
Write-Host "$Arduino Uninstaller"
Write-Host ""
Write-Host "Purpose: Remove the following components:"
Write-Host "    - Stop $JavaDescription process"
Write-Host "    - Uninstall $Arduino"
Write-Host "    - Remove $CompMode compatibility mode"
Write-Host ""

# Uninstall Arduino 1.0.6
set-location $startLocation
Write-Host "*****"
Write-Host ""
Write-Host "Checking for $Arduino installation..."
Write-Host ""

If ((Test-Path -Path $ArduinoRegkey) -eq 'True')
{
    Write-Host "    $Arduino is installed."
    Write-Host ""
    Write-Host "Checking for running $JavaDescription process..."
    Write-Host ""

    # Stop the Java process if running
    If ((Get-Process $JavaProcess) -eq 'True')
    {
        Write-Host "    $JavaDescription process is running."
        Write-Host ""
        Write-Host "Stopping $JavaDescription process..."
        Write-Host ""
        Write-Host "Command: Stop-Process -ProcessName $JavaProcess -Force -Verbose"
        Stop-Process -ProcessName $JavaProcess -Force -Verbose
        Write-Host ""
        Write-Host "    $JavaDescription process stopped."
        Write-Host ""
        Start-Sleep 5
    }
    Else
    {
        Write-Host "    $JavaDescription process is not running."
        Write-Host ""
    }
}

$CmdParams = '/c ' + (Get-ItemProperty $ArduinoRegkey).UninstallString

Write-Host "Uninstalling $Arduino..."
Write-Host ""
Write-Host "Command: $Cmd $CmdParams"

```

```

        Start-Process -FilePath $Cmd -ArgumentList $CmdParams -ErrorVariable +err -verb
        Open -wait
        Write-Host ""
        Write-Host "    $Arduino uninstall complete."
        Write-Host ""
    }
    Else
    {
        Write-Host "    $Arduino is not installed."
        Write-Host ""
    }
}

Start-Sleep 5

# Remove WIN7 RUNASADMIN compatibility mode
set-location $startLocation
Write-Host "*****"
Write-Host ""
Write-Host "Checking for $Arduino $CompMode compatibility mode setting..."
Write-Host ""

if (Get-ItemProperty $CompModePath -name $CompSetting)
{
    Write-Host "    $Arduino $CompMode compatibility mode setting present..."
    Write-Host ""
    Write-Host "Removing $Arduino $CompMode compatibility mode setting..."
    Write-Host ""
    Write-Host "Command: Remove-ItemProperty -Path $CompModePath -name $CompSetting -"
    Write-Host "Force"
    Remove-ItemProperty -Path $CompModePath -name $CompSetting -Force
    Write-Host ""
    Write-Host "    $Arduino $CompMode compatibility mode setting removal complete."
    Write-Host ""
}
else
{
    Write-Host "    $Arduino $CompMode compatibility mode setting does not exist."
    Write-Host ""
}

Start-Sleep 5

$err | Out-File $errFileLocation
Write-Host "*** Log file location = " $errFileLocation " ***"

Start-Sleep 5

```