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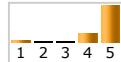
Adding a description to a .NET Windows Service

By **Andy Hopper**




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This article describes how to add a description for your .NET Framework Windows Service to the Services administration tool.

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Introduction

Although the .NET Framework provides extremely robust Windows Service support through the classes available under the System.ServiceProcess namespace, for some reason the ability to specify your the description displayed in the Services control panel applet/MMC snap-in for your service was omitted. There exists an attribute class named ServiceProcessDescription, but it actually specifies what the Services MMC displays under the name column, and the Description column is left blank. This article will walk you through a low-level hack for adding a description by adding it directly to your service's registry key.

Most services keep their configuration information in the registry under the HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ key. This is where the Service Control Manager (SCM) looks to get a list of services installed on a machine, and the Services control panel uses the SCM to list and modify the services. If you look under the key for a service, you'll see several entries, but we're interested in one in particular: the Description value. This is a REG_SZ (string) value, and this is where the SCM looks to get a service's description. We'll now take advantage of this arcane knowledge in the code below (you may download the source by clicking [here](#)):

```
//This code should be inserted into your ProjectInstaller class' code

public override void Install(IDictionary stateServer)
{
    Microsoft.Win32.RegistryKey system,
        //HKEY_LOCAL_MACHINE\Services\CurrentControlSet
        currentControlSet,
        //...\Services
        services,
        //...\<Service Name>
        service,
        //...\Parameters - this is where you can put service-specific configuration
        config;

    try
    {
```

```

    //Let the project installer do its job
    base.Install(stateServer);

    //Open the HKEY_LOCAL_MACHINE\SYSTEM key
    system = Microsoft.Win32.Registry.LocalMachine.OpenSubKey("System");
    //Open CurrentControlSet
    currentControlSet = system.OpenSubKey("CurrentControlSet");
    //Go to the services key
    services = currentControlSet.OpenSubKey("Services");
    //Open the key for your service, and allow writing
    service = services.OpenSubKey(this.serviceInstaller1.ServiceName, true);
    //Add your service's description as a REG_SZ value named "Description"
    service.SetValue("Description", "This is my service's description.");
    //(Optional) Add some custom information your service will use...
    config = service.CreateSubKey("Parameters");
}
catch(Exception e)
{
    Console.WriteLine("An exception was thrown during service installation:\n" + e.ToString());
}
}

public override void Uninstall(IDictionary stateServer)
{
    Microsoft.Win32.RegistryKey system,
    currentControlSet,
    services,
    service;

    try
    {
        //Drill down to the service key and open it with write permission
        system = Microsoft.Win32.Registry.LocalMachine.OpenSubKey("System");
        currentControlSet = system.OpenSubKey("CurrentControlSet");
        services = currentControlSet.OpenSubKey("Services");
        service = services.OpenSubKey(this.serviceInstaller1.ServiceName, true);
        //Delete any keys you created during installation (or that your service created)
        service.DeleteSubKeyTree("Parameters");
        //...
    }
    catch(Exception e)
    {
        Console.WriteLine("Exception encountered while uninstalling service:\n" + e.ToString());
    }
    finally
    {
        //Let the project installer do its job
        base.Uninstall(stateServer);
    }
}
}

```

After you add the above code to your ProjectInstaller class, you should see a description for your service alongside your service's name after your service is installed. In a future article, we'll look at how we can add the description as a custom attribute and extend the ServiceInstaller class to add the description for us automatically.

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About the Author

Andy Hopper




Andy Hopper is a senior software engineer with DocuSys, a company that supplies digital medical solutions. He primarily designs and implements multi-tier backend architectures for Medical Informatics applications. Classically trained as an electrical engineer, Andy rediscovered his long-lost love with programming while working on a Master's degree project and changed careers in 1995 to become a self-taught software engineer. Andy realized his time with VB and ATL were at an end when he received the .NET Framework preview at the 2000 Professional Developer's Conference. Andy has previously worked as a Resesarch Engineer at the Georgia Institute of Technology, a Senior Software Engineer at CyberCare Technologies, and a Lead Systems Architect for the American Cardiovascular Research Institute.

Flamebait: Andy thinks arrays should be 0-based.

Occupation: Web Developer
Location:  United States

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