



Description: Advanced configuration of MobileHMI

OS Requirement: The operating system required is Win XP/2000/NT/95/98/Me.

General Requirement:

MobileHMI must be fully installed prior to following the steps in this document.

MobileHMI Configuration

This purpose of this application note is to provide the user with configuration options that allow MobileHMI to operate most appropriately on a customer's web application server.

By default, MobileHMI uses the ASPNET user account created during installation of the .NET framework. The ASPNET user account has limited access privileges as set forth by Microsoft for the 1.1 version of the .NET Framework.

There are many ways in which MobileHMI can be configured to run on an unattended application server without the need for a user to be logged in. The preferred approach is left to the web server administrator responsible for maintaining the MobileHMI application server.

In all cases, three fundamental configuration changes are required if an administrative user is not required to log in to make the server available to users :

1. Run **DCOMCNFG** to make the following changes :
 - a. Make sure that the Administrators, INTERACTIVE and SYSTEM groups are included in the **Default Security – Default Access Permissions** and **Default Launch Permissions**.
 - b. Within **Applications – ICONICS Security Server** set the **Identity** to run as a user belonging to the Administrators group.
 - c. For any data server that MobileHMI will access, the application identity will need to be set as the Launching User. For example, within **Applications – ICONICS Simulator OPC Server** or **ICONICS AlarmWorX32 Server** set the **Identity** to run as **The launching user**.
2. Run **Administrative Tools - Component Services** to change the **My Computer - COM+ Applications** properties of the **ICONICS MobileHMI Backend Server**. Specifically, click on the **Identity** tab to configure the application to run as a user with Administrative access.

3. The NTFS NT File System may require that the ASPNET account be added to access certain file folders containing SQL, ACCESS and EXCEL files accessed as part of the backend data.

Simple Approach Using The Default ASPNET Account

The simplest approach is to add the ASPNET user account, created with the installation of the .NET framework, to the default DCOM Access and Launch permissions. With this approach, no other changes are required. Run **DCOMCNFG** and edit the **Default Security – Default Access Permissions** and **Default Launch Permissions** by adding the ASPNET user account.

This approach will allow MobileHMI to access all GENESIS and backend OPC data server components.

If this approach is at issue for the individual responsible for server maintenance, who would prefer not to add ASPNET to the default Launch and Access permissions, review some of the alternative approaches.

Component-Specific Approach Using The Default ASPNET Account

MobileHMI calls on many COM components that must be launched and accessed by ASPNET. If ASPNET does not have default launch and access permissions, the permissions must be configured using DCOMCNFG for each component that may be accessed.

To use this component-specific approach, the following Application components must be configured for custom launch and access permissions to include the ASPNET account :

ICONICS GenRegistrarServer
ICONICS Security Server

Additional components may need to be similarly configured if accessed indirectly by the backend server.