

1.1 Device INI file usage

When we created the “Enhanced Device Window” we also added a device ini file that is associated with the ddl files. The file follows the naming convention:

XXYY.ini

Where XX is the Device revision in HEX and YY is the DDL revision in HEX. This file contains information on the following features.

1.1.1 Advanced Help

Section	Key	Value
AdvancedHelp	For HART devices the Key is <ItemName> For FF devices the Key is <BlockIndex>!<ItemName>	If the help file is a CHM file, then a number means that the parameter with this item name has “Extended Help” enabled. The number will be the topic number to jump to. If anything else is used then no extended help is defined. If the help file is a PDF file, then a number means that the parameter with this item name has “Extended Help” enabled. The number will be the page number to jump to. If anything other than a number is used, then no extended help is defined.

The default behavior is to not support extended help

1.1.2 Layout Rules Override

This is intended for the Fisher Valve Group to allow a “Compare” screen which has different parameters than is displayed on the “Configure/Setup” screen.

Section	Key	Value
LayoutSource	Compare	“Resource” will direct the compare layout information to come from the configure resource file even if the device has a “device_root_menu” “EDDL” will direct the compare layout information to come from the “Top Level Menu” using the EDDL Layout rules, regardless of what style that menu is or whether the device is HighLatency or not. “NonCrossblock” will cause AMS Device Manager to ignore a crossblock menu and use the block level menu. This was added to pass the FF HIST TEST.
LayoutSource	Configure	“EDDL” will direct the configure layout information to come from the “Top Level Menu” using the EDDL Layout rules, regardless of what style that menu is or whether the device is HighLatency or not. “Resource” will direct the configure layout information to come from the resource file, even if the device has a “device_root_menu”. “HandHeld” will direct the configure layout information to come from the “Top Level Menu” using Handheld Layout rules regardless of what style that menu is.

Configure/Setup

Software Requirements Specification

AMS SRS-347
Revision 11.20
Page 2 of 4

Section	Key	Value
		"NonCrossblock" will cause AMS Device Manager to ignore a crossblock menu and use the block level menu. This was added to pass the FF HIST TEST.
LayoutSource	ProcessVariables	<p>"EDDL" will direct the process variables layout information to come from the "Top Level Menu" using the EDDL Layout rules, regardless of what style that menu is or whether the device is HighLatency or not.</p> <p>"Resource" will direct the process variables layout information to come from the resource file, even if the device has a "process_variables_root_menu".</p> <p>"HandHeld" will direct the process variables layout information to come from the "Top Level Menu" using Handheld Layout rules regardless of what style that menu is.</p> <p>"NonCrossblock" will cause AMS Device Manager to ignore a crossblock menu and use the block level menu. This was added to pass the FF HIST TEST.</p>
LayoutSource	DeviceDiagnostics	<p>"EDDL" will direct the diagnostics layout information to come from the "Top Level Menu" using the EDDL Layout rules, regardless of what style that menu is or whether the device is HighLatency or not.</p> <p>"Resource" will direct the diagnostics layout information to come from the resource file, even if the device has a "diagnostics_root_menu".</p> <p>"HandHeld" will direct the diagnostics layout information to come from the "Top Level Menu" using Handheld Layout rules regardless of what style that menu is.</p> <p>"NonCrossblock" will cause AMS Device Manager to ignore a crossblock menu and use the block level menu. This was added to pass the FF HIST TEST.</p>

The Default behavior will be to read from the "device_root_menu" if it exists.

By Default the style of the top level menu will determine if the screen uses Handheld layout rules or EDDL rules. By default "HighLatency" HART devices will default to using the "HandHeld Layout Rules" and use the device_root_wha_menu (if available) otherwise the root_menu for their configure screens.

Additional note: If the behavior of defaulting to root_menu becomes too troublesome, there is a system wide override to continue using the Resource or device_root_menu even if the device is high latency. To set this, add the following to the fms.ini file:

```
[DeviceWindowOptions]
DefaultToRootMenuOnHighLatency=No
```

1.1.3 Layout Menu Override

Section	Key	Value
LayoutSource	CompareMenu	This specifies the “Top Menu” to use for the Compare Screen.
LayoutSource	ConfigureMenu	This specifies the “Top Menu” to use for the Configure Screen
LayoutSource	ProcessVariablesMenu	This specifies the “Top Menu” to use for the Process Variables Screen
LayoutSource	DeviceDiagnosticsMenu	This specifies the “Top Menu” to use for the Device Diagnostics Screen

The format of the value should follow the form:

“!Menu!root_menu”

Or

“!DDItem!my_top_menu”

1.1.4 Landing Zone Override

This is which Device View AMS Device Manager will open when a user double clicks a device object. Also it has a one-to-one correlation to the Context Menu and which Device View is bolded in the list.

Section	Key	Value
Options	LandingZone	<p>Can be any of the four Device Views available.</p> <p>“ProcessVariables” will cause the device to open to the Process Variables menu on double clicking the device. And in the Context Menu, Process Variables will be bolded telling the user that this is now the default landing zone for this device.</p> <p>“Diagnostics” will cause the device to open to the Device Diagnostics menu on double clicking the device. And in the Context Menu, Device Diagnostics will be bolded telling the user that this is now the default landing zone for this device.</p> <p>“Compare” will cause the device to open to the Compare menu on double clicking the device. And in the Context Menu, Compare will be bolded, telling the user that this is now the default landing zone for this device.</p>

All devices will still default to the Configure/Setup page, unless specified in the device ini file to default to any of the other three device views. The selection of any Device View as a Landing Zone will place this View at the top of the Navigation bar (overriding the behavior described in section **Error! Reference source not found.**).

1.1.5 Embedded Device Icon

This is a performance enhancement to keep the application from constantly trying to read the “Device Image” from the Plant Server every time the device icon is to be displayed.

Section	Key	Value
Options	NoImageInEDDL	“Yes” means that the Application tried to read the device_icon image from the DDL and it could not get it. If the entry is “Yes” it will not try again.

The default behavior is to always read the “device_icon” from the ddl file if a “device_icon” file is not present in the device type directory.

1.1.6 HART Enhanced Method Interpreter

AMS Device Manager now supports two versions of Method Interpreter. It can continue using the same old reliable method interpreter that it has used for the last 12 years (Which has been tested on over 400 HART devices). Or AMS Device Manager can be configured to use an Enhanced Method Interpreter that uses code supplied from the HART Foundation which supports a number of new EDDL Builtins (See SRS-808 for more details). The new Method interpreter can only be enabled on a device-type by device-type basis at this time.

Section	Key	Value
MethodInterpreter	UseVersion	“2” means the Enhanced Method Interpreter.

The default behavior is to continue using the Old Method interpreter (“UseVersion=1”).

1.1.7 Dynamic Variable Refresh Rate

If a device has a large number of dynamic variables we allow the device developer to change the dynamic update rate. If the device is connected on a WHA the update rate may be much slower than if it were connected on a modem or other passthrough.

Section	Key	Value
DynamicRefresh	HighLatency	If this field is NOT defined, the High Latency refresh rate will default to 15000 milliseconds (fifteen seconds).
DynamicRefresh	LowLatency	If this field is NOT defined, the Low Latency refresh rate will default to 5000 milliseconds (five seconds).

The “HighLatency” value can be set system wide by adding an entry into the fms.ini file:

```
[DynamicRefresh]
HighLatency=300000
```

This value can be overridden by the device.ini file entry.