

FDI Usability Style Guide Assessment

Reference AG12080: FDI Usability Style Guide {1.1}

UID (Device Package) Tests

The following verification points are all required. If any verification point is not implemented, a comment is given and the result is FAIL.

Views

Verification Point	Section	Result
Maintenance View is supported.	4.1	

Use Cases

Verification Point	Section	Result
Device Commissioning is supported without the use of a UIP.	5.1	
Function Test is supported without the use of a UIP.	5.2	
Device Calibration is supported without the use of a UIP.	5.3	
Condition Monitoring is supported without the use of a UIP.	5.4	
Data Synchronization is supported without the use of a UIP.	5.5	
Device Replacement is supported without the use of a UIP. (i.e. Transfer Device Data to Offline, Transfer from Offline to Device context menus work without errors)	5.6	
Device Decommissioning is supported without the use of a UIP. (i.e. Transfer Device Data to Offline, context menu works without errors)	5.7	

Top-Level Menus

Verification Point	Section	Result
The FDI device package contains at least one of the menus "Operate", "Diagnostics" or "Device settings".	7.1	
Operate, if supported, contains functions and variables necessary for operations.	7.1.1	
Diagnostics, if supported, contains functions and variables necessary for diagnostics.	7.1.2	
Device Settings, if supported, contains functions and variables necessary for device support. Recommended	7.1.3	

to include parameters which are not directly modified in standard diagnostics or operation tasks		
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Menu Structure

Verification Point	Section	Result
Every MENU object shall have a LABEL attribute which provides the visible text for the end user. (i.e. menus shall not have LABEL defined as "" (blank)).	7.2.1	

Action Elements

Verification Point	Section	Result
The FDI Package uses the host's action elements (OK, CANCEL, APPLY, ABORT, BACK, NEXT). (i.e. the UID does not duplicate buttons for the user)	6.1.2	

UIP Tests

The following verification points are all required, if a UIP is implemented. If any verification point is not implemented, a comment is given and the result is FAIL.

Action Elements

Verification Point	Section	Result
The FDI Package uses the host's action elements (OK, CANCEL, APPLY, ABORT, BACK, NEXT). (i.e. the UID does not duplicate buttons for the user)	6.1.2	

Hosting Services for Standard UI Actions

Verification Point	Section	Result
UIP designers shall use the <i>GetStandardUIActionItems</i> service (IEC 62769-2) (i.e. OK, CANCEL, APPLY buttons are presented to the user in logical order of the UIP execution. There are buttons where you expect them to be.)	6.1.4	

Variable Labels

Verification Point	Section	Result
Textual values are displayed left-aligned in the value field.	8.1	

Numerical values are displayed right-aligned in the value field.	8.1	
Parameter Labels (names) are vertically aligned at the left border.	8.1	
Value fields are vertically aligned at the left boarder and have the same width.	8.1	
If engineering units are shown, they are to the right of the value field with the text left aligned to the edge of the value field.	8.1	
Variable status icon is between the label and value field.	8.1	

Design for Resizability

Verification Point	Section	Result
For large display areas, UIP designers shall use scrollbar, page keys, and touch gestures to show all UI to the user.	8.4	

Text Fonts

Verification Point	Section	Result
Underlined text shall be used exclusively for hyper references.	8.5	

Contrast

Verification Point	Section	Result
Text and images of text have a contrast ratio of at least 7:1	8.6	
Large-scale text and images of large-scale text may have a contrast ratio of at least 4.5:1	8.6	