IDO Project Work Flow

www.iDesignOffice.com
phone: +61 3 9419 2020

Instrumentation Design Office WorkFlow

Setup Catalog Datasheets E0 — NOTE 1

Add Plant Areas E1

Setup Device & I/O Catalogs WM0a — NOTE 1

Setup Cable Catalog WM0 — NOTE 1

Create Seed Drawings D0 — NOTE 1

Create Hookup Templates DH0 — NOTE 1

Add or Import Instrument Tags E2

Add Junction Boxes & Equipment Cabinets/Panels WM1

Add Instrument Loops E3

Select Equipment Requiring Termination Diagram WM8

Create Datasheets E4

Assign Tags to Loops E7

Add Main Muticore Cables WM2

Setup Wiring Rules WM3

Create Template Drawings D4

Assign Materials to Hookup Templates DH1 — NOTE 1

Assign Tags to Datasheets E5

Select Loops Requiring Loop Diagram E8

Assign Tags to Junction Boxes WM4

Import Termination Diagrams D1

Define I/O Type for each Tag E9

Add I/O Modules, Devices. Assign Tags to I/O WM6

Complete Cable Terminatons WM5

Assign Seeds to Termination Diagrams D2

Create Hookup Drawings DH2

Import Loop Diagrams D5

Assign Tags to Hookup Drawings DH3

Enter Data into Datasheets E6

Cross-patch Wire, Complete internal Wiring etc WM7

Generate Ternination Diagrams D3

Assign Templates to Loop Diagrams D6

Import/Export Data from Vendors E6a

Generate Loop Diagrams D7

Generate Hookup Diagrams DH4

Print/Issue Datasheets E10

Print/Issue Cable Schedules WM9

Print/Issue Termination Diagrams D8

Print/Issue Loop Diagrams D9

Print/Issue Hookup Diagrams DH5

NOTES:
1. Catalogue data and standard drawings can be created prior to project start-up or imported from previous IDO projects

IDO Engineer Module

IDO Wiring Manager Module

IDO Designer Module

IDO Engineer/Datasheets:

E0: Setup Catalog Datasheets

This task can be completed prior to project detail design phase and requires users to define their standard datasheet templates (datasheet format). If a project has been done with IDO previously you can import previous catalog datasheet into the new project

E1: Add Plant Areas

First task is to add your project Plant Areas. IDO requires at least on Plant Area. Add Plant Areas from the InstrumentList -> [Project] -> [Setup] -> [Add/Edit Plant Areas] dialog

E2: Add or Import Instrument Tags

From the InstrumentList either manually add/copy each tag aor use the [Tools] -> [Import from Excel] command to import existing tag list in Excel format. Prior to any import you must first 'map' each Excel column to an IDO database field name

E3: Add Instrument Loops

Prior to Loop Diagram generation (later in your project) you should add loops to your project including Loop Service descriptions

E4/E5: Create Datasheets

From the InstrumentList add a datasheet for each tag requiring a datasheet, assigning the tag to a datasheet

E6: Enter data into Datasheets.

Enter data into datasheets. Also you may import data from external sources such as process data and/or import data off datasheets exported to Excel and filled in by vendors

E7: Assign Tags to Loops

Prior to Loop Diagram generation (later in your project) you should add loops to your project including Loop Service descriptions

E8: Select Loops Requiring Loop Diagrams

From the Looplist select each loop needing a loop diagram. This tells IDO to import the loop into the IDO Drawing List (in IDO Designer)

E9: Prnt Datasheets

After data entry is completed all datasheets can be issued and printed

IDO Wiring Manager:

WM0: Setup Cable Catalog

This task can be completed prior to project detail design phase and requires users to add manufacturer specific cable type to the catalog (or import from a previous IDO project if available)

WM1: Add Junction Boxes & Equipment Cabinets/Panels

From the WM Equipment module add JB's and other main equipment cabinets ready for cabling later.

WM2: Add Main Multicore/pair Cables

Add cables between JB's and Cabinets etc from the Cable Schedule (WM – Equipment module) or IDO Cable Block Diagram.

WM3: Setup Wiring Rules

IDO's wiring rules will creates field cables/wiring automatically. You should first assign your own cable catalog cables to the wiring rules from the WM – Equipment module [Project] -> [Wiring Rules] dialog

WM4: Assign Tags to Junction Boxes

From the WM Equipment module (or from the Cable Block Diagram) assign tags to each field Junction Box and create field cabling/termination by assigning wiring rules

WM5: Complete Main cable terminations at JB's and Cabinets

Complete all multicore/pair cable terminations at JB's and Cabinets

WM6: Add I/O Modules, Devices. Assign Tags to I/O

Complete all internal equipment layout by adding internal components as required and assigning I/O from the Equipment Terminations dialog

WM7: Cross-Patch Wire, Complete internal Wiring

Complete all internal wiring required to finish project

WM8: Select Equipment Requiring Termination Diagrams

From the WM – Equipment module select JBs and Cabinets that you want to create termination drawings for (this allows you to import into the IDO Designer Drawing List)

WM9: Print/Issue Cable Schedules

Create various reports such a Cable Schedule and Cable Bill of Materials, Cable Gland BOM, Cable Drum reports etc

IDO Designer:

D0: Create Seed Files

This task can be completed prior to project detail design phase and requires users to create standard client title blocks (at various sizes: A3, A2 etc) for use by IDO and link the attributes to an IDO Datalink for auto update during drarwing generation

D1: Import Termination Diagrams

From the Drawing List: [Project] –> [Check for Termination Dwgs] will auto add a new drawing record for each equipment selected as 'Termination Dwg Required' in WM Equipment

D2: Assign Seed file to Termination Drawings

Assign a seed (drawing) file to each Termination drawing in thje Drawing List. Ensure the drawing parameters are set for each Seed file in the Seed list

D3: Generate Termination Diagrams

Auto create all termination drawings

D4: Create Loop Template Drawings

For each loop type create/copy a set of loop symbols and assign Datalinks where required.

D5: Import Loop Diagrams

From the Drawing List: [Project] –> [Check for New Loops] will auto add a new drawing record for each Loop selected as 'Loop Dwg Required' in IDO Engineer Loop list.

D6: Assign Template to Loop Diagrams

Assign a loop template to each loop drawing in the drawing list

D7: Generate Loop Diagrams

Auto create all Loop Diagrams

D8: Print/Issue Termination Diagrams

Select and print all completed Termination Diagrams from the Drawing List

D9: Print/Issue Loop Diagrams

Select and print all completed Loop Diagrams from the Drawing List