

# Advanced Workflow Composer Overview

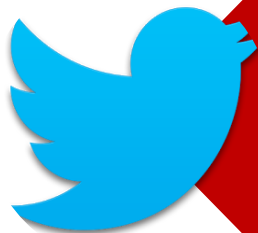
Sigrid Kok | Winshuttle



# Introduction



App – Winshuttle



#WUG2014 – Twitter



SSID – Winshuttle  
Password – wug2014

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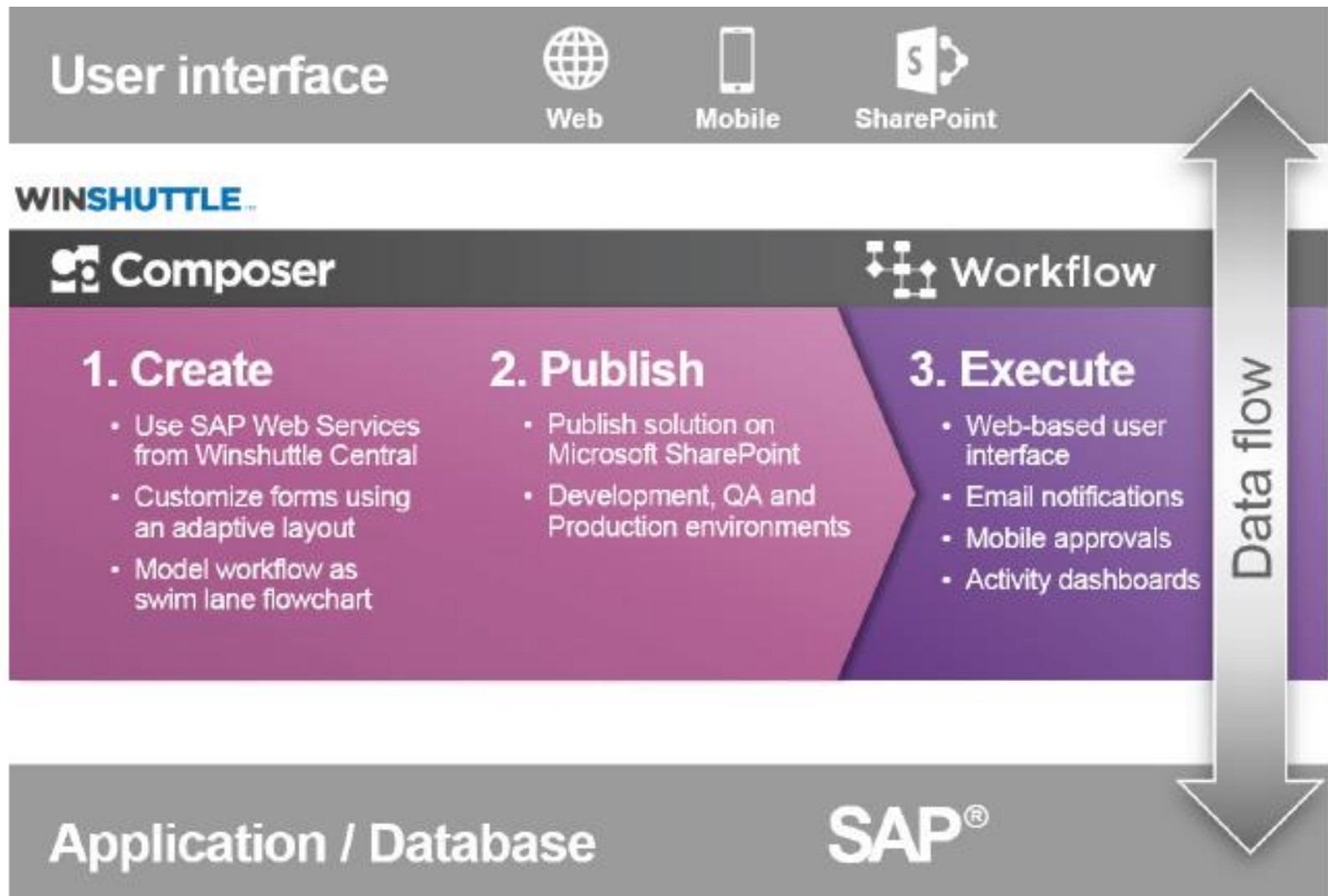


# Agenda

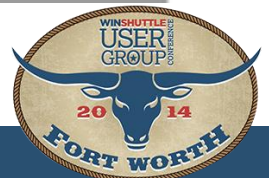
- Workflow Logic
- Winshuttle Controls
- Participant Resolvers
- Field Validation
- Exposed! Process Metadata
- Web Services
- Introduction to Composer



# What does Composer do?



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# Building Processes with Winshuttle

**WINSHUTTLE. STUDIO**  
Author

**WINSHUTTLE. TRANSACTION**

Record

Map to XML

**WINSHUTTLE. QUERY**

Select

Map to XML

Create Web Services (client)

**COMPOSER**

Select Scripts/ Web Services

Model workflow

Design form views

Publish

Create Solution (browser)

Publish Web Services

Publish Process

**WINSHUTTLE. FOUNDATION**  
Host



SharePoint 2007/2010/2013

**WINSHUTTLE. CENTRAL**  
Governance Platform  
Web Service Directory  
Artifact Storage  
User Authentication



Windows Server

**WINSHUTTLE. SERVER**

Winshuttle Web Service Engine



SharePoint 2007/2010/2013

**WINSHUTTLE. WORKFLOW**

Workflow Execution & Tracking  
Form Rendering/Processing  
Notifications

Run



Browsers:

- IE9/IE10 for Design
  - Chrome
  - Firefox
  - Safari
- Smartphones or Tablets
- iOS
  - Andriod
  - Windows Mobile



Web



Mobile

Fill out and submit form



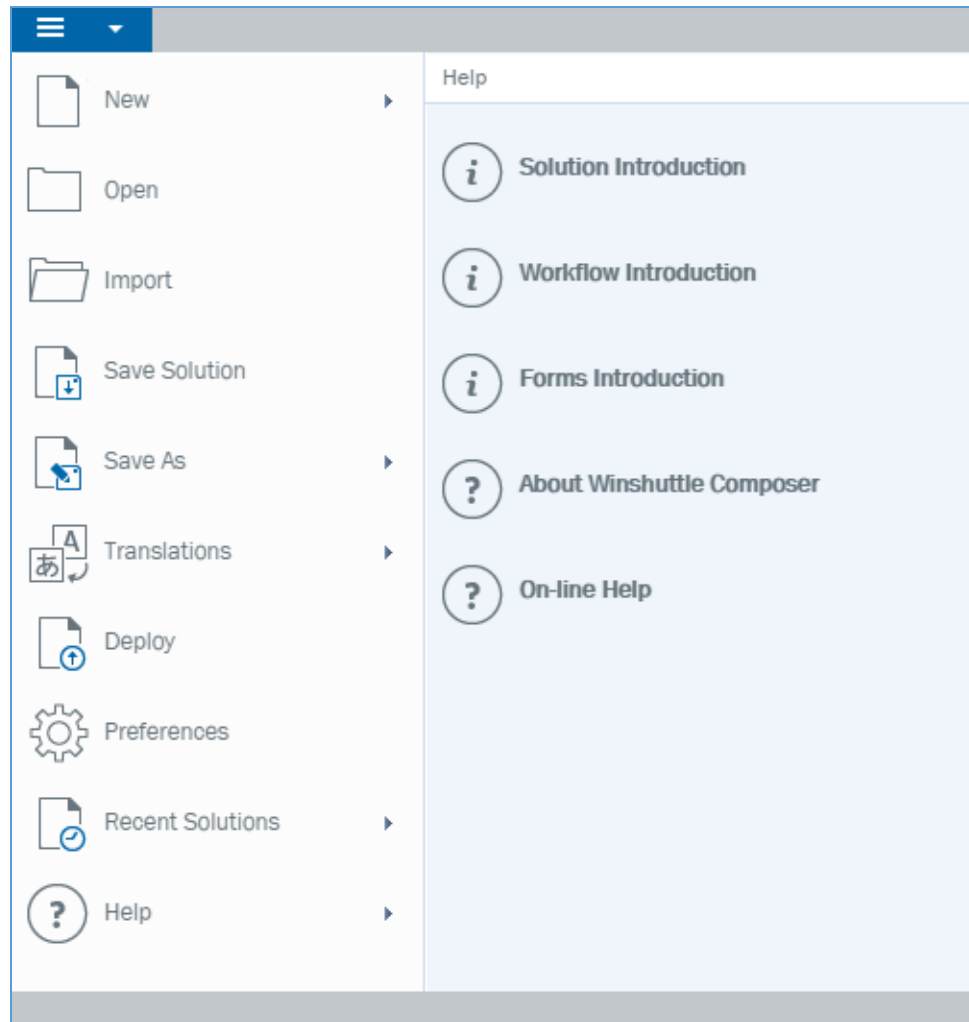
# Composer – Overview and Layout



## Topics

- Start Menu
- Solutions Tab Content
- Workflow Tab Content
- Forms Tab Content
- Translations
- Benefits of Composer
- Limitations of Composer
- When to use Composer

# Composer – Start Menu



# Composer – Start Menu



## New

- Solution Wizard
  - Wizard to step through configuration of:
    - SharePoint Site and Central Site (if applicable)
    - Swimlanes (auto create Swimlanes based on Participant Type)
    - Data Connections (SQL Server, SP List, Web Service, etc..)
    - Transaction/Query Scripts (auto generate Mappings/Form Elements)
- Blank Solution

## Open

- From Desktop, Workflow Server (SP) or Central Server

## Import

- Transaction/Query Scripts
- Workflows (No Forms)
  - Old Workflow Definitions (.svp)
  - Old Solutions (.wssln)
- New Composer Solutions (.wsslnc)

## Save/Save As Solution

- To Desktop, Workflow Server (SP) or Central Server
- Save Workflow as Image



# Composer – Start Menu (continued)



## Translations

- Run Translations
  - Auto run Translations using Microsoft Bing Translation Service (requires account)
- Export Translations
  - Exports Form labels for manual translation
- Import Translations
  - Import manually translated Form labels

## Deploy

- Deploy Forms/Workflow to SharePoint Site

## Preferences

- Workflow (Grid size, etc..)
- Forms (Translation Service ID, etc...)

## Help

- Solutions/Workflow/Forms Basic Introduction animations
- About Composer (Version)



# Composer – Solutions Tab



Solution

Workflow

Form

JS Editor

Validate

Deploy

Add Name Template

Add Data Connection

Editing

Summary

Name

Untitled

Description

Author

Workflow

Task Count

0

Complexity Ratio

N/A

Form

View Count

1

Schema Field Count

0

Views

View\_1

Group count: 1

Element counts: (0)

History

Versions

Winshuttle Solution

Data

Form

Workflow

Name Templates

Deployment Profiles

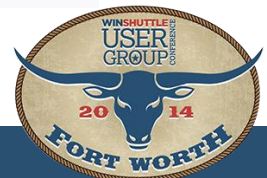
Data Connections

Transaction Scripts

Query Scripts

Web Services

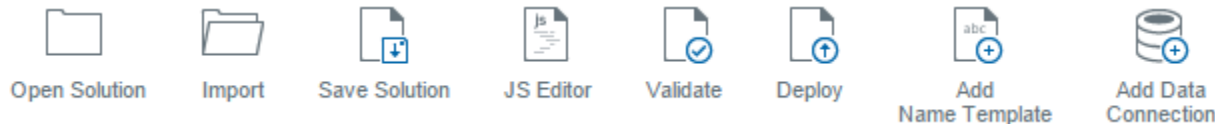
JavaScript Code



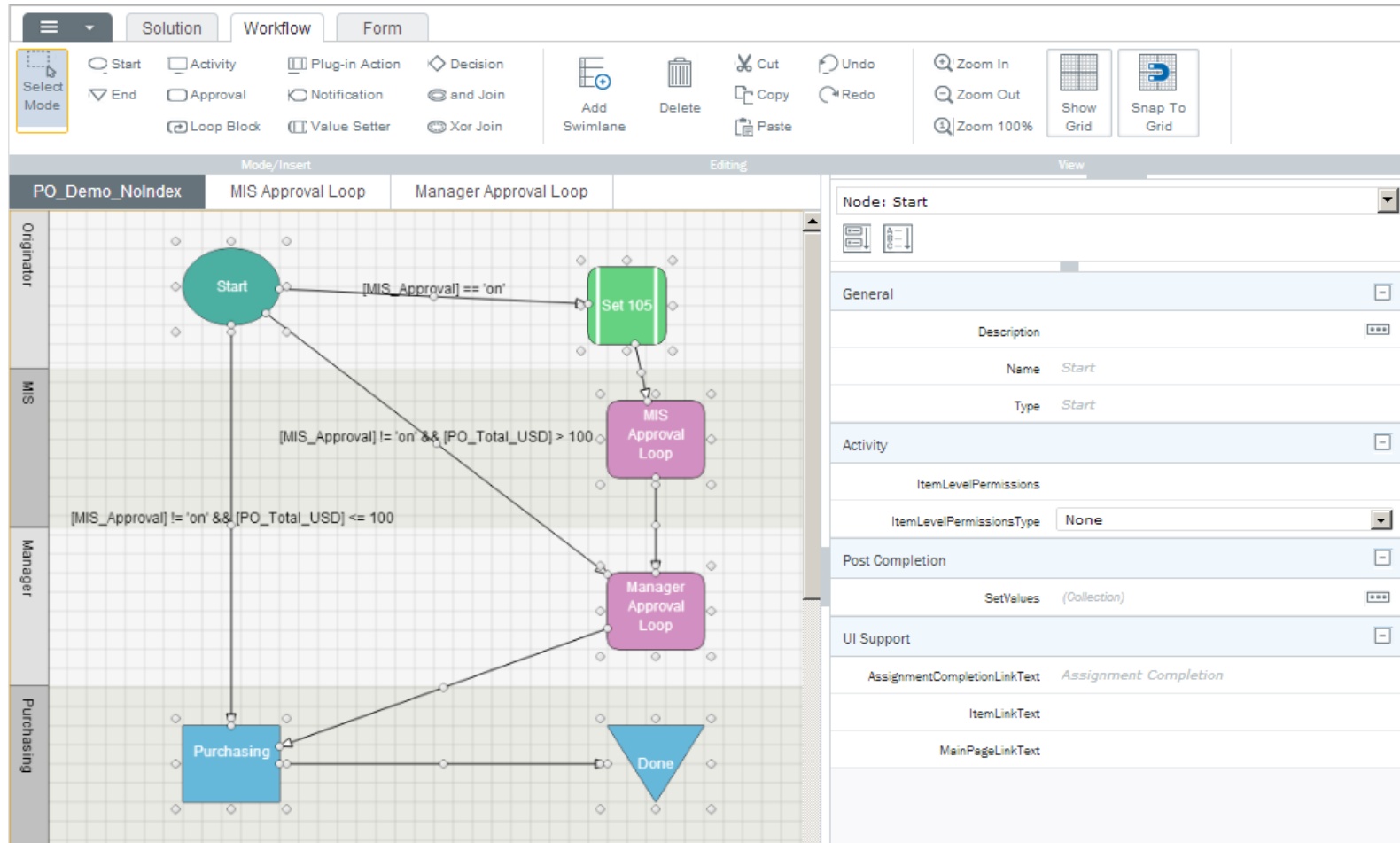
# Composer – Solutions Tab

## Header/Ribbon

- Open Solution
- Import - Solution file (WSSLNC or WSSLN or SVP)
- Save Solution – Save Solution file on SharePoint Server
- JS Editor - Add Custom JavaScript
- Validate - Solution settings (automatically done prior to Deployment)
- Deploy - Solution to SharePoint Server based on Deployment Profile
- Add Name Template - Create Name Template
- Add Data Connection - Launch Data Connection Wizard
  - SQL Server, SP List, Web Services



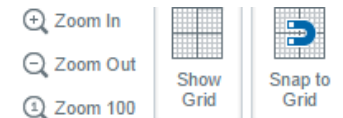
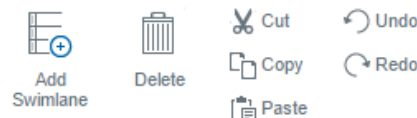
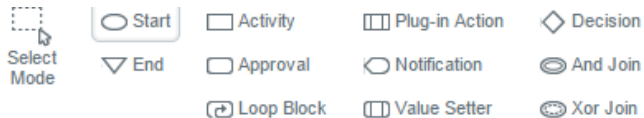
# Composer – Workflow Tab



# Composer – Workflow Tab

## Header/Ribbon

- **Selection Mode** - allows for multi-selections
- **Node Creation**
  - Select and Draw/Double Click to create applicable Node/Activity
- **Editing**
  - Easy creation of swimlanes
  - Cut/Copy/Paste/Delete/Undo/Redo
- **View functionality**
  - Zoom in/out
  - Show/Snap to Grid



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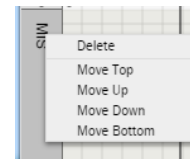


# Composer – Workflow Tab

## Design Canvas

- Swimlanes

- Easy creation from Ribbon
- Context menu to Move Up/Down
- Draw Nodes or Double click to auto create
- Wizard to help generate Loop Blocks

A dialog box titled "New Loop Wizard" with fields for NAME # (Loop Manager Approval), APPROVAL TYPE (Sequential Approval), APPROVER SWIMLANES (MANAGER), and REJECT TO SWIMLANE (Originator).

- Keyboard shortcuts (Delete, Ctrl-C, Ctrl-V, Ctrl-Z, Ctrl-Y)

Very similar to existing Designer functionality





# Composer – Workflow Tab



## Property Pane

- **Easy access to Node/Activity Properties**
  - Node Properties available via Dropdown or Clickable
  - Available Property values based on Form content
  - Group Properties or list in alphabetic order
- Very similar to existing Designer functionality

# Composer – Forms Tab



Composer – Forms Tab

Solution Workflow Form

New View New Group

A+ A- [Icon]

B I U

Verdana Black Light Gray

Cut Paste Top Bottom Undo Desktop

Copy Painter Up Down Redo Tablet

Delete Refresh

Views and Groups Text/Label Formatting Text Font/Colors Editing Ordering Undo/Redo Preview

View 1

Group with Logo - Hidden

Group with Image and no Header

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Select Image: Choose File No file chosen

Basic Elements (2 Columns)

Text Box Drop Down

SubLabel SubLabel

Date Picker Combo Box

Enter Date SubLabel

More Basic Elements

Elements Properties Layout Form Data

Basic Elements

Label Text Box

Text Area Drop Down

Combo Box Radio Button

Checkbox Date Picker

Spacer

Helper Elements

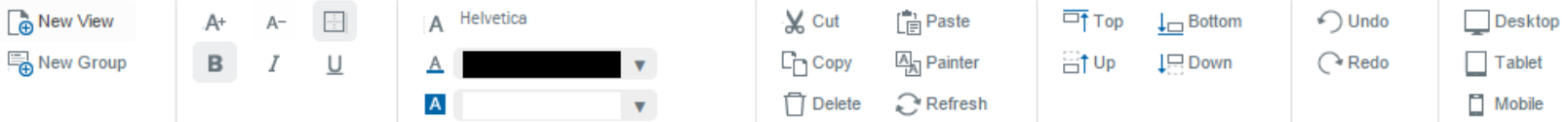
Advanced Elements

Container Elements

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# Composer – Forms Tab



## Ribbon

- Create new Views and Groups
- Text Formatting (Form Labels)
  - Size, Style and Alignment
  - Fonts, Color Background Color
  - Format Painter functionality
- Element Editing
  - Cut/Copy/Paste/Delete/Undo/Redo
  - Move Elements Up/Down/Top/Bottom
- Form Previews
  - Desktop, Tablet and Mobile previews
  - Validate Rule execution



# Composer – Forms Tab



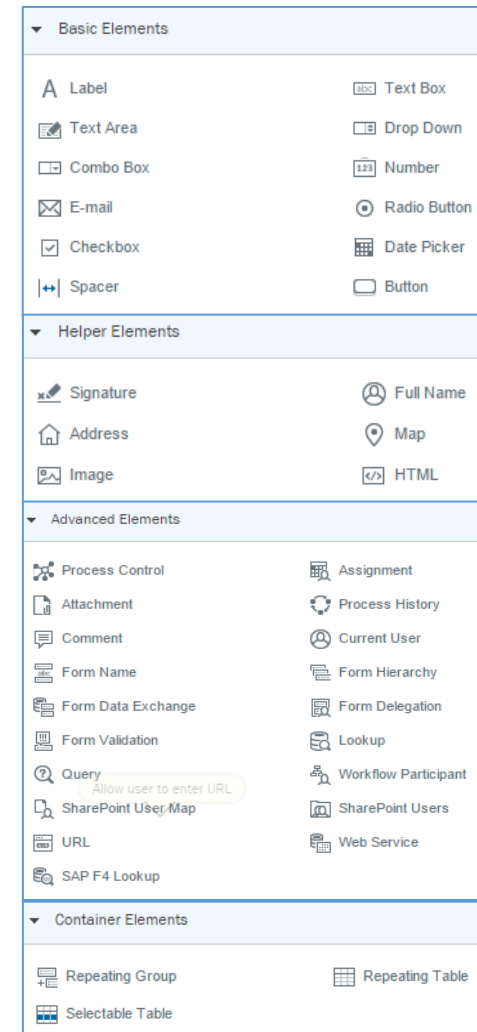
## Form Views (Design Canvas)

- Layout of View content
  - Elements organized in “Groups”
  - Support for Repeating Groups/Tables
- Context Menu
  - Move Groups/Elements Up/Down/Top/Bottom
  - Delete
  - Where Used

# Composer – Forms Tab

## Toolset

- Elements Tab
  - Basic Elements
    - Textbox, Dropdowns, etc...
  - Helper Elements
    - Pre-defined data types, Address, Images, Maps, etc..
  - Advanced Elements
    - Winshuttle Custom Controls
  - Container Elements
    - Repeating Groups and Tables
- Drag and Drop or Click to create



# Composer – Forms Tab

## Properties

- Properties Tab
  - “Group” Properties
    - # of Columns, Collapsible, Read Only, Colors, etc...
  - “Control/Element” Properties
    - Name, Label, Tooltips, Defaults, Rules, etc...
  - “Input Field” Properties
    - Binding, Required, Read Only, Rules, etc...





# Composer – Forms Tab (continued)



## Toolset and Properties

- Layout Tab
  - Tree View of Form Views/Groups and Elements
  - Used to assist in creating additional Views - Drag and Drop
- Form Data Tab
  - Tree View of Form Fields – Schema
  - Fully Customizable
  - Rules Editor - Context Menu
  - Set Data Type/Default Values/Promote to SharePoint-Context Menu
  - Auto Generated from Winshuttle Script imports
  - Drag and Drop Element Creation

# Composer – Benefits over Designer



## What are the major benefits of Composer over Designer?

- Multi-browser support, HTML5
- Multi-locale support (data formatting)
- Built-in ability to do Translations
- Multi-device support – Responsive Display!
- Easily see which fields have rules
- Where used functionality
- Microsoft has deprecated InfoPath

# Composer – Benefits over Designer (cont'd)



## Other benefits of Composer over Designer?

- Smart re-ordering of swimlanes in workflow tab
- Wizards for Solution creation, as well as loops
- Execute web services via rules – so you can determine the order in which rules fire – ex: set query field value before calling query
- Full parser – So What? That means you can nest functions! 😊

```
substring_after(substring_before($form.getValue('/my:myFields/my:VendorLookup/my:VendorLookup_Output/my:LogField_1'), "Execution Time"), "Records extracted - ")
```

# Composer – Limitations



## What are the limitations of Composer?

- No exact placement of fields
- No exact display size of fields, especially table columns
- No support for nested tables
- No offline forms
- No email attachments (*but it is coming soon*)

# Composer – When to use?



## When to choose Composer over Designer?

- Multiple devices
- Multiple browsers
- Multiple language support
- Easier Default locale settings – ex: dates
- No skills with InfoPath and/or no wish to invest in InfoPath
- No big investment in Designer with InfoPath forms
- Just starting with forms – go with Composer!

# Resources



- Composer Documentation

<http://winshuttle-help.s3.amazonaws.com/composer/index.htm>

Or

<http://help.winshuttle.com/composer>

- Design Patterns / Solution Accelerators

<http://bit.ly/mddesignpatterns>

- Winshuttle Foundation Help Center

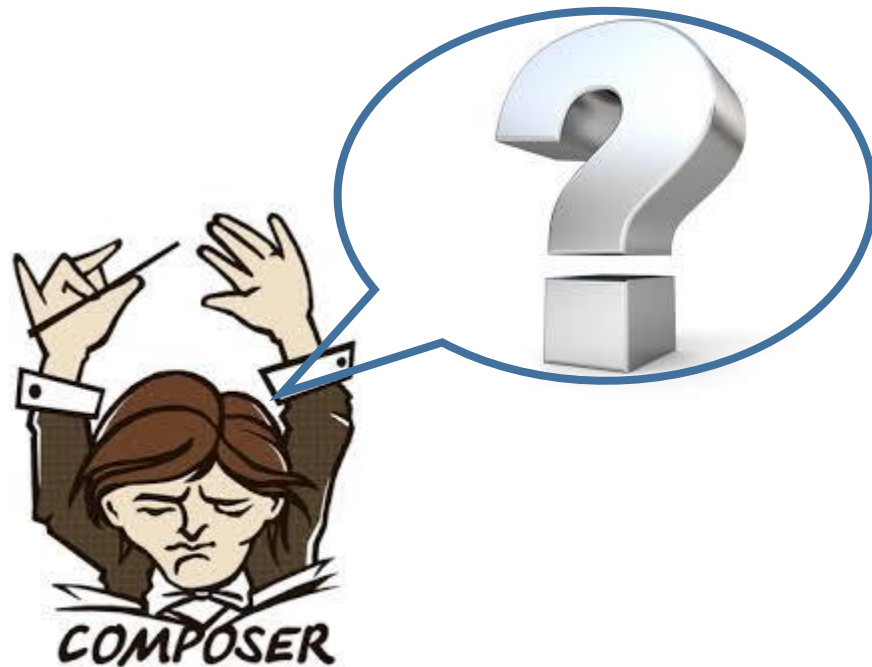
<http://help.winshuttle.com/foundation>

- Winshuttle Help Center

<http://help.winshuttle.com>



# Questions?





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