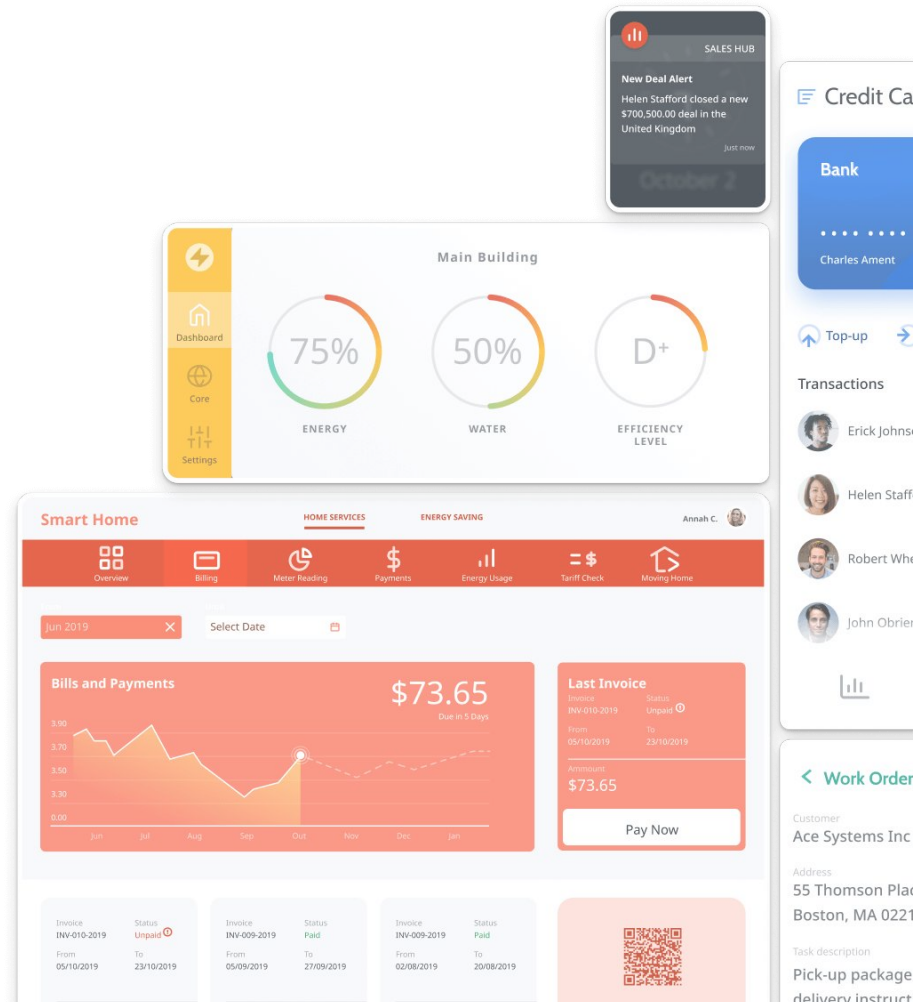


# Block Events

Reactive Developer Boot Camp



# What you will learn here

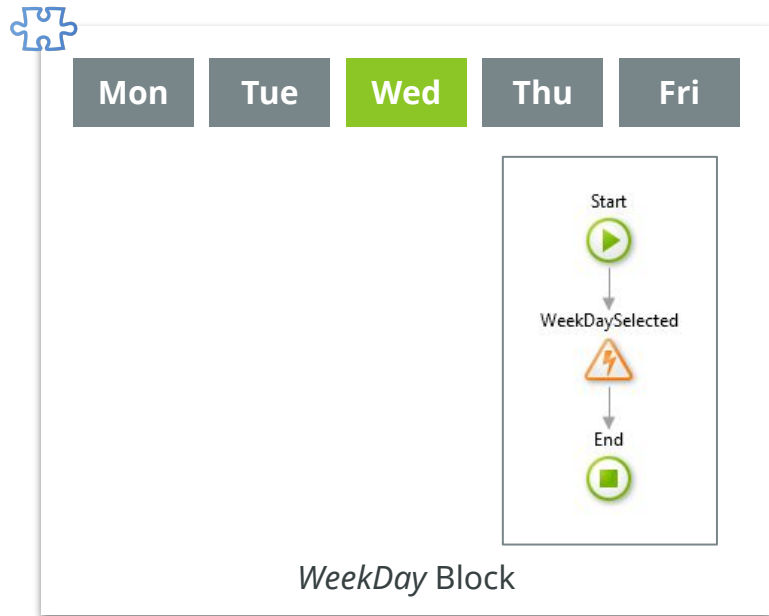
- What is an Event?
- Triggering and Handling Events
- Execution Flow
- On Parameters Changed Event

# What is an Event?

An **Event** allows a Block to **notify** its  
Parent **of an occurrence**

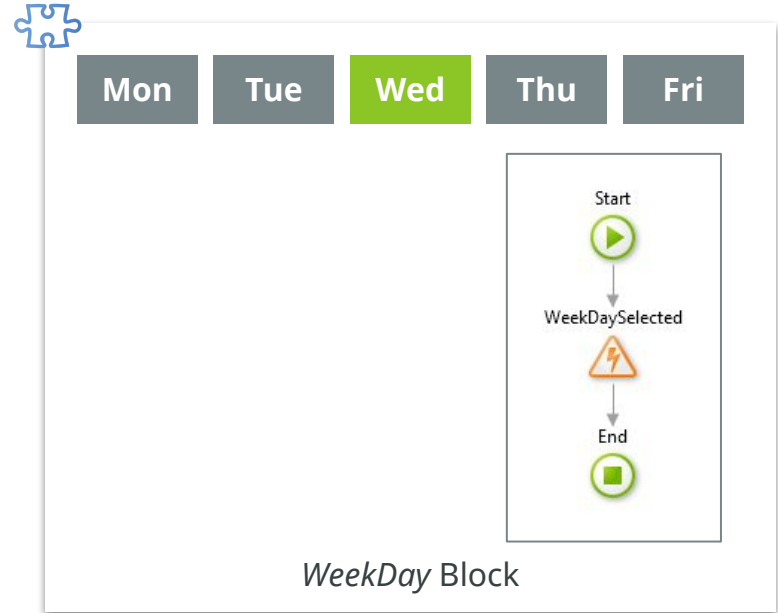
# Events

- Interaction with parent is done using Events
  - Block triggers an Event
  - Parent handles it
- Events are created inside Blocks
  - Have Input Parameters to send data to the parent
  - Be defined as mandatory



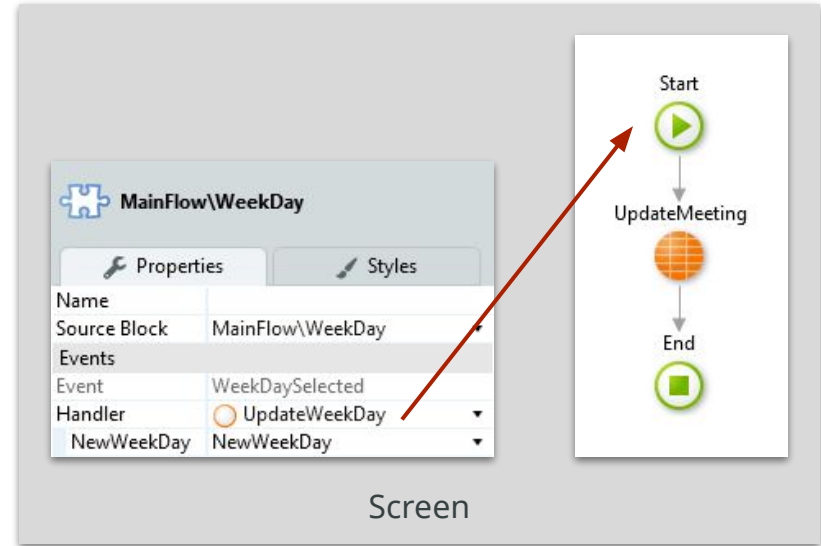
# Why do we need to Trigger Events?

- Blocks and their parents have different scopes
- Parent may have elements that depend on actions performed inside the Block instance
- Triggering an Event allows the Block to notify the parent



# Handling Events

- When a Block triggers an Event...
  - ... the Event Handler is executed
- An Event Handler
  - Defines the logic to execute when an event is triggered
  - Has access to the Input Parameters of the Event
  - Has access to the parent's scope



# Event Execution Flow

## WeekDay



Mon

Tue

Wed

Thu

Fri

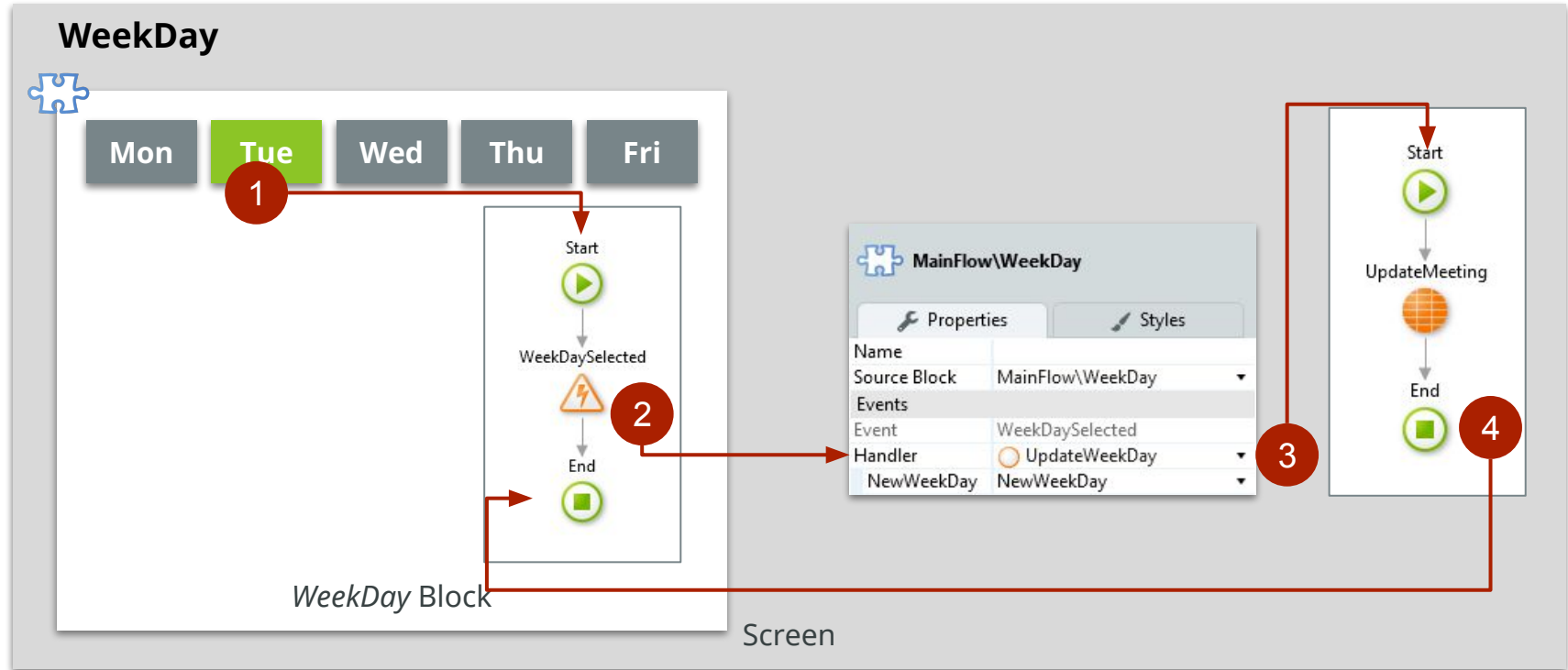


WeekDay Block

MainFlow\WeekDay	
Properties	
Name	
Source Block	MainFlow\WeekDay
Events	
Event	WeekDaySelected
Handler	UpdateWeekDay
NewWeekDay	NewWeekDay

Screen

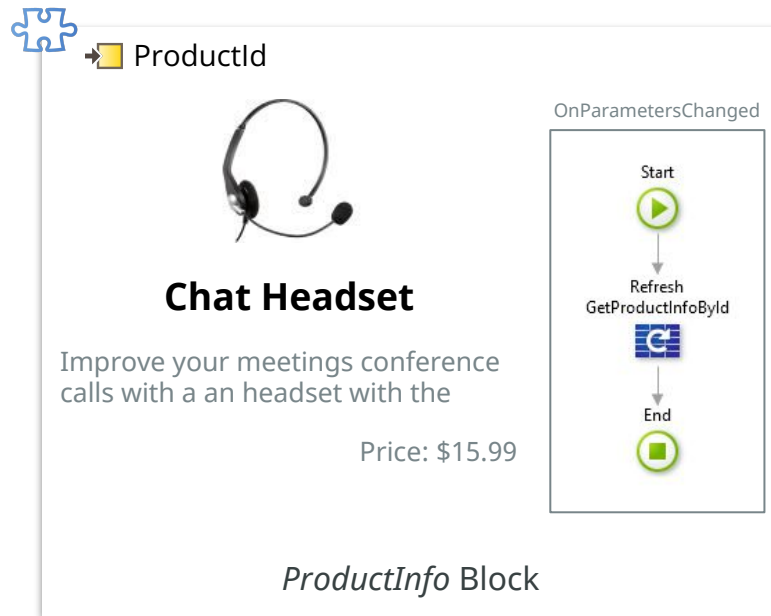
# Event Execution Flow





# On Parameters Changed

- Only available in Blocks
- Triggered automatically
  - Anytime the parent changes the Block's Input Parameters value
- Changes to Input Parameters inside the block **do not** trigger the event



# On Parameters Changed Execution Flow



**24" Series 4 Led  
Business Monitor**



**2.0 Multimedia  
Speakers**



**14' Cat-6 Network  
Cable**



**Chat Headset**



*Products Screen*

# On Parameters Changed Execution Flow

 SelectedProductId



**24" Series 4 Led  
Business Monitor**



**2.0 Multimedia  
Speakers**



**14' Cat-6 Network  
Cable**



**Chat Headset**



*Products Screen*

# On Parameters Changed Execution Flow

SelectedProductId



**24" Series 4 Led  
Business Monitor**



**2.0 Multimedia  
Speakers**



**14' Cat-6 Network  
Cable**



**Chat Headset**



ProductId



**(No product selected)**

OnParametersChanged



*ProductInfo* Block

*Products* Screen

# On Parameters Changed Execution Flow

SelectedProductId



ProductId



(No product selected)

OnParametersChanged



Refresh  
GetProductInfoById



ProductInfo Block

Products Screen



24" Series 4 Led  
Business Monitor



2.0 Multimedia  
Speakers



14' Cat-6 Network  
Cable



Chat Headset



# On Parameters Changed Execution Flow

SelectedProductId



24" Series 4 Led Business Monitor



2.0 Multimedia Speakers

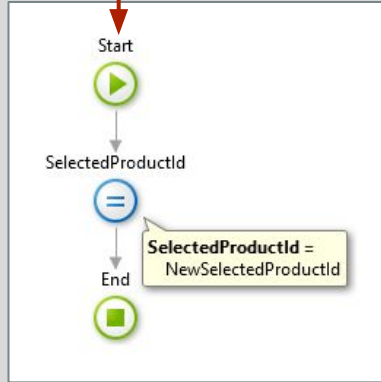
1



14' Cat-6 Network Cable



Chat Headset



Products Screen



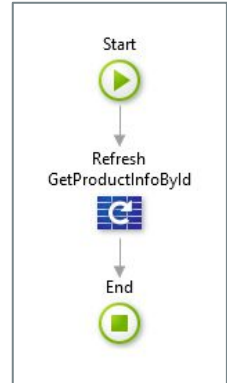
ProductId



(No product selected)

ProductInfo Block

OnParametersChanged



# On Parameters Changed Execution Flow

SelectedProductId

2



24" Series 4 Led Business Monitor



2.0 Multimedia Speakers

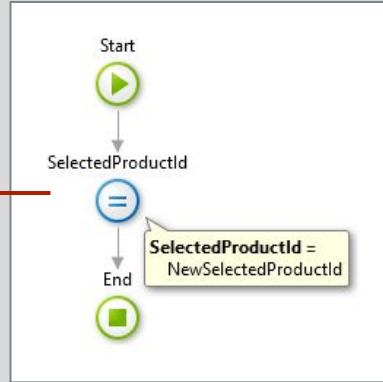
1



14' Cat-6 Network Cable



Chat Headset



ProductId



(No product selected)

OnParametersChanged



ProductInfo Block

Products Screen

# On Parameters Changed Execution Flow

SelectedProductId 2



**24" Series 4 Led Business Monitor**



**2.0 Multimedia Speakers**

1



**14' Cat-6 Network Cable**



**Chat Headset**



*Products Screen*



ProductId 3



**(No product selected)**

OnParametersChanged



*ProductInfo Block*



# On Parameters Changed Execution Flow

SelectedProductId 2



**24" Series 4 Led Business Monitor**



**2.0 Multimedia Speakers**

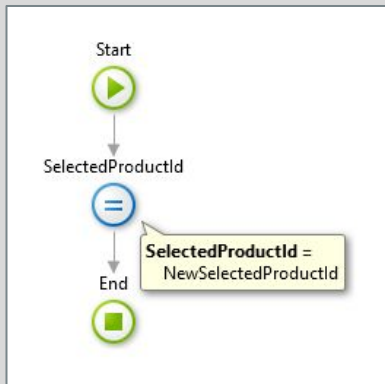
1



**14' Cat-6 Network Cable**



**Chat Headset**



ProductId 3



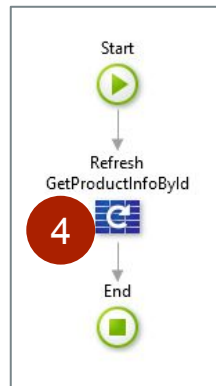
**2.0 Multimedia Speakers**

An amazing sound quality for a cheap price.

Price: \$23.99

*ProductInfo* Block

OnParametersChanged



*Products* Screen

# On Parameters Changed Execution Flow

SelectedProductId



**24" Series 4 Led Business Monitor**



**2.0 Multimedia Speakers**

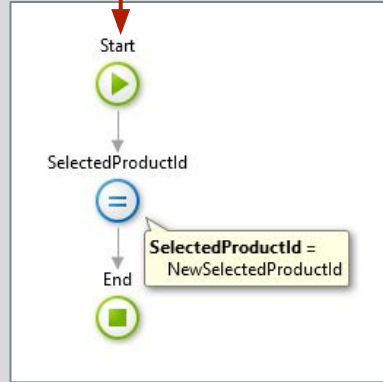


**14' Cat-6 Network Cable**



**Chat Headset**

5



ProductId



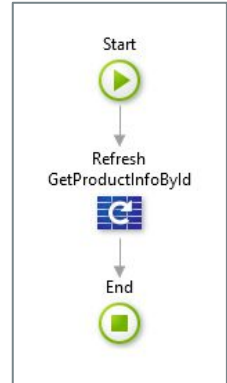
**2.0 Multimedia Speakers**

An amazing sound quality for a cheap price.

Price: \$23.99

*ProductInfo* Block

OnParametersChanged



*Products* Screen

# On Parameters Changed Execution Flow

SelectedProductId

6



**24" Series 4 Led Business Monitor**



**2.0 Multimedia Speakers**



**14' Cat-6 Network Cable**



**Chat Headset**

5



ProductId



**2.0 Multimedia Speakers**

An amazing sound quality for a cheap price.

Price: \$23.99

*ProductInfo Block*

OnParametersChanged



*Products Screen*

# On Parameters Changed Execution Flow

SelectedProductId 6



**24" Series 4 Led Business Monitor**



**2.0 Multimedia Speakers**

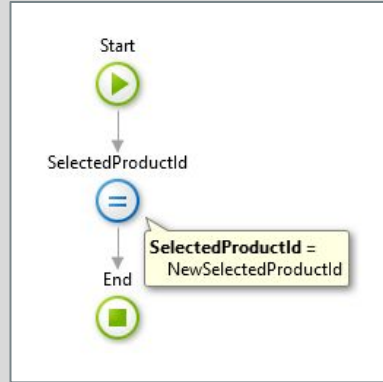


**14' Cat-6 Network Cable**



**Chat Headset**

5



*Products Screen*



ProductId 7



**2.0 Multimedia Speakers**

An amazing sound quality for a cheap price.

Price: \$23.99

*ProductInfo Block*

OnParametersChanged



# On Parameters Changed Execution Flow

SelectedProductId 6



**24" Series 4 Led Business Monitor**



**2.0 Multimedia Speakers**

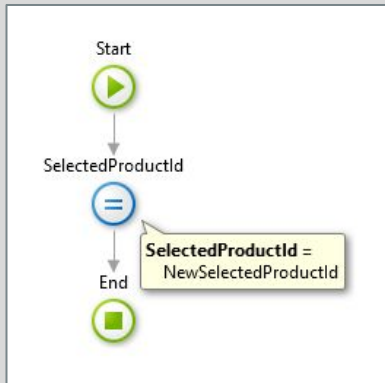


**14' Cat-6 Network Cable**



**Chat Headset**

5



ProductId 7



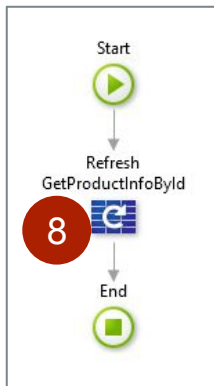
**Chat Headset**

Improve your meetings conference calls with a an headset with the

Price: \$15.99

*ProductInfo* Block

OnParametersChanged



8

*Products* Screen

# Questions?



Thank You!

