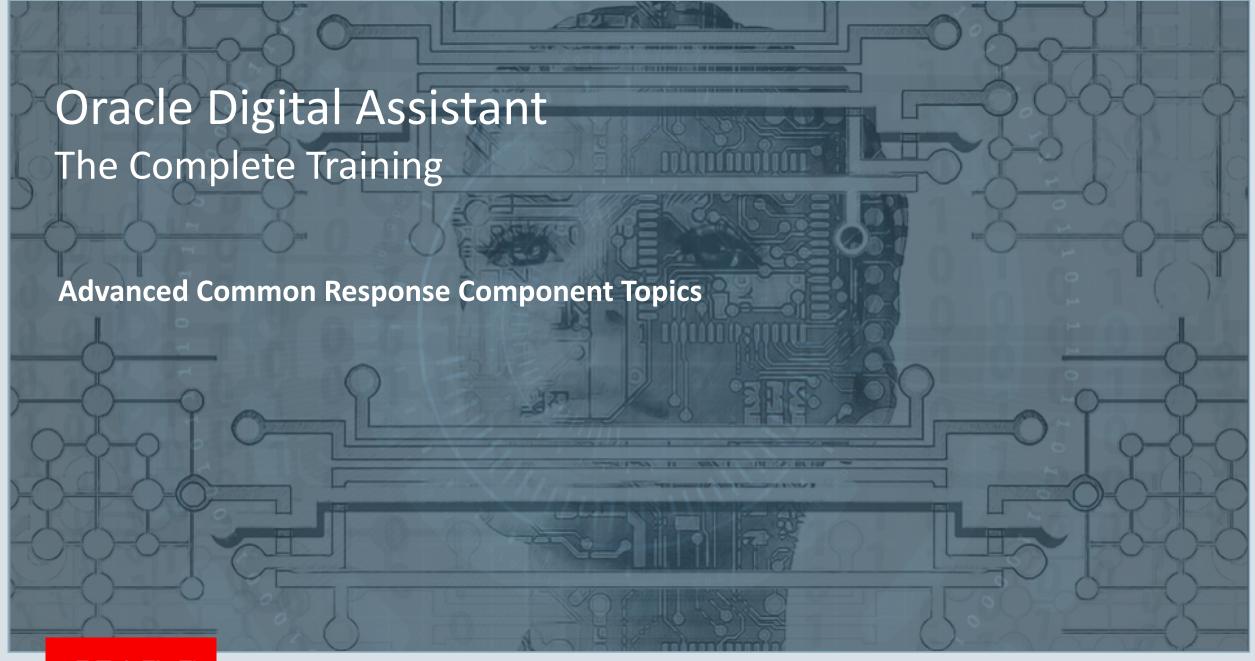
ORACLE®



Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



Topic agenda

- Component fundamentals
- Component properties
- Response type specific properties
- 4 Component actions



Topic agenda

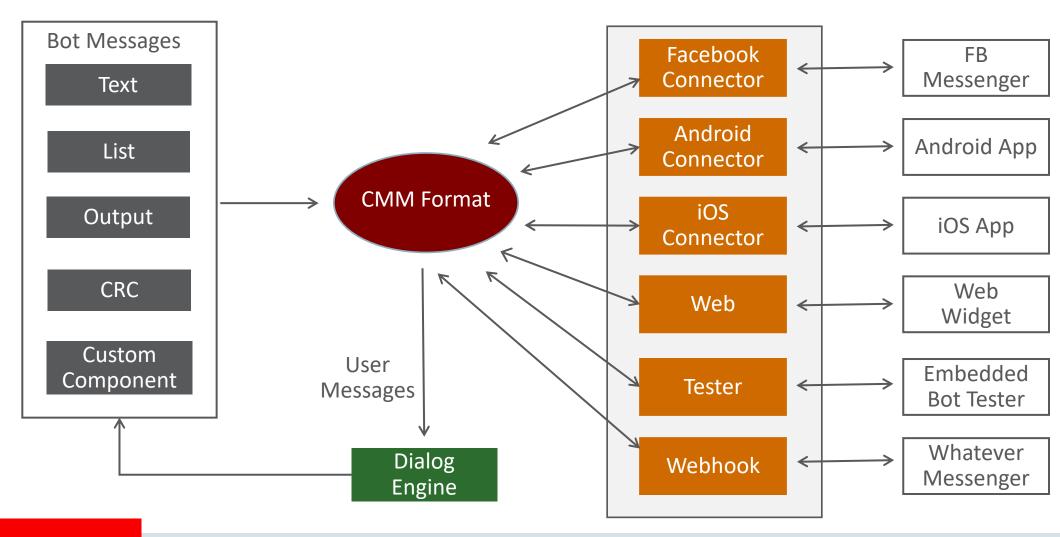
- Component fundamentals
- 2 Component properties
- Response type specific properties
- 4 Component actions



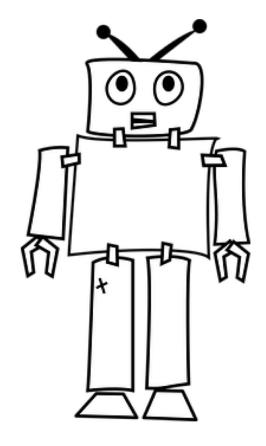
About the conversation message model (CMM)

- Messengers are different
 - in the User Interface they can render for a Bot Response
 - in the format of the incoming an outgoing message payloads
- Oracle Digital Assistant uses a channel agnostic messaging format
 - Conversation Message Model (CMM)
 - Used by all UI components
 - Supported by the Custom Component SDK
 - CMM payload is automatically translated to payload format of target channel

Oracle digital assistant CMM architecture



The common response component is the lid of a pot called the conversation message model





About System.CommonResponse component

- Declarative design time for CMM skill responses
- Can be used for building any kind of user interface
- Most important component to know about
- Dialog flow builder provides quick-start component templates
 - Provided for text, card, attachment responses and use of composite bag entities
 - Not all component properties are part of the component templates

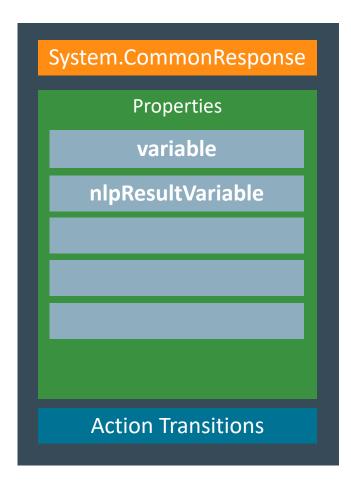


Topic agenda

- Component fundamentals
- Component properties
- Response type specific properties
- 4 Component actions

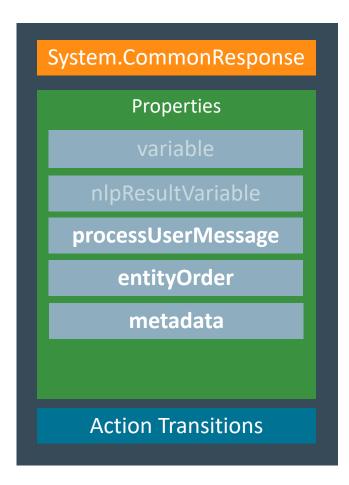


Entity slotting and component rendering



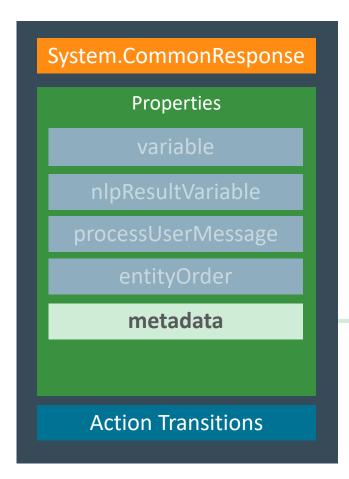
- If context variable referenced from *variable* property has value, then component is not rendered
- Referenced context variable is updated through user input in CR component or postback action
- If set, the *nlpResultVariable* property must reference a context variable of type "nlpresult".
 - For variables of type entity that are referenced from the variable property, attempts to extract values through NLP
 - If value is found in NLP then variable property is getting updated and component rendering is skipped

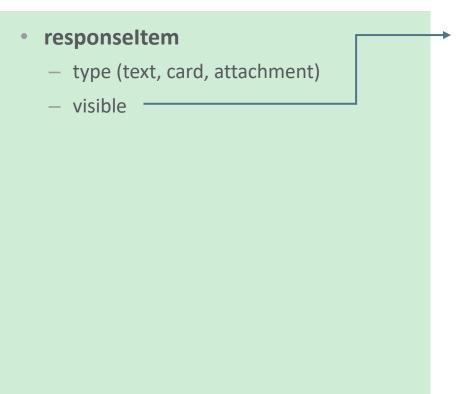
Properties specific to System.CommonResponse



- CR component supports all properties common to system components
- Specific properties
 - Setting processUserMessage to false turns component into a read-only view
 - entityOrder property used with composite bag entities to override default order in which bag items are resolved
 - The *metadata* property defines the component response to display in the messenger

Specific System.CommonResponse component properties

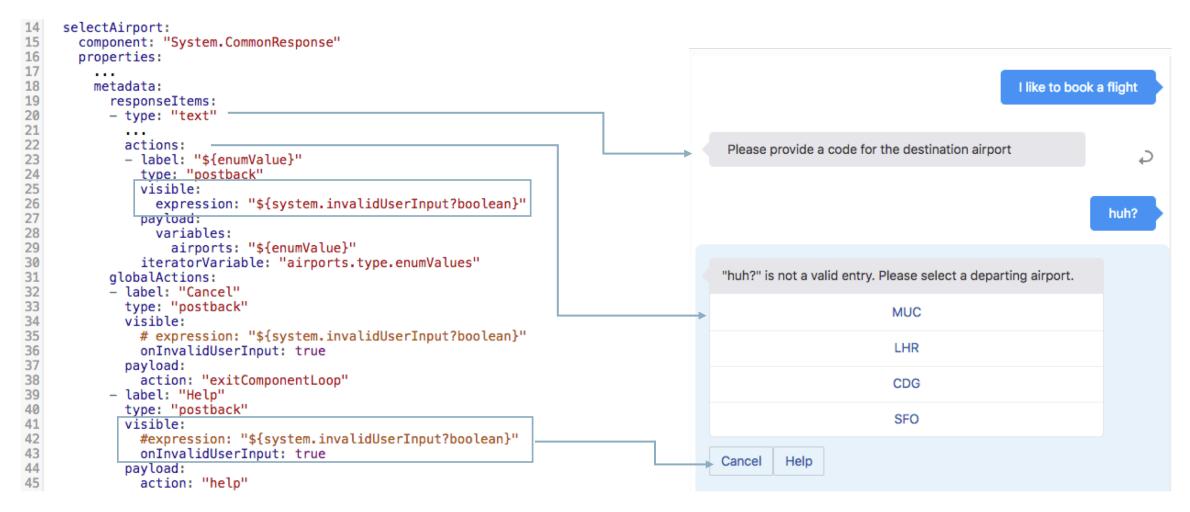




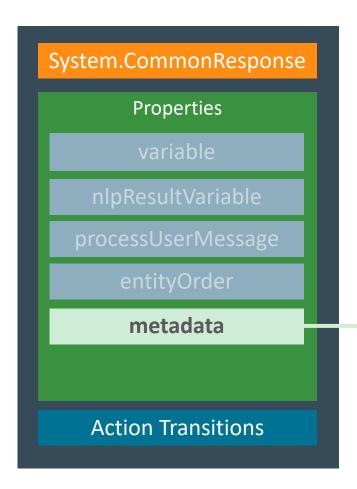
- Optional
- Conditionally renders response
 - Apache FreeMarker expression returning true or false
 - onInvalidUserInput
 - channels
 - include (comma separated list of channels)
 - exclude (comma separated list of channels)
 - entitiesToResolve
 - include
 - exclude



Conditional visibility of items



Specific System.CommonResponse component properties



responseltem

- type (text, card, attachment)
- visible
- iteratorVariable, rangeStart, rangeSize
- channelCustomProperties
- actions
 - type (postback, share, call, url, location)
 - Label, imageUrl
 - iteratorVariable
 - chanelCustomProperties

- Properties added to the response "as is"
 - Set channel-specific functionality that cannot be set with component properties
- Can be used as a UI hints when building custom messengers
- Example

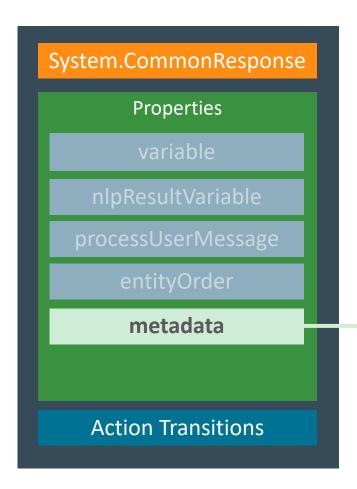
channelCustomProperties:

- channel: "facebook" properties:

top_element_style: "large"



Specific System.CommonResponse component properties



responseltem

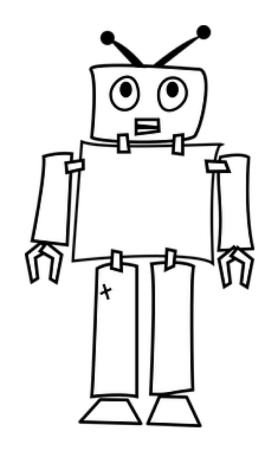
- type (text, card, attachment)
- visible
- iteratorVariable, rangeStart, rangeSize
- channelCustomProperties
- actions
 - type (postback, share, call, url, location)
 - Label, imageUrl
 - iteratorVariable
 - chanelCustomProperties
 - payload -

- Required for action types 'url', 'postback' and 'call'
- Allowed properties
 - action (optional) custom string mapped in the actions transition
 - variables (optional) one or many key-value pairs of context, system and user variable names and values
 - url (optional) website to open for URL type
 - phoneNumber (optional) used with call type



You can define **global actions** that **are displayed outside the response items** below the component.

In Facebook Messenger those are rendered as quick replies



Topic agenda

- Component fundamentals
- Component properties
- Response type specific properties
- 4 Component actions



Cards response specific properties

- Cards (required)
 - Defines list of card responses
- cardLayout (optional)
 - Vertical (default), horizontal
- Supports page ranging to overcome channel specific card limits



PEPPERONI Classic marinara sauce with authentic old-world style pepperor



MEAT LOVE

Classic marinara sauce, authentic old-world pepperoni, all-natural Italian sausage, slow-roasted ham, hardwood smoked bacon, seasoned pork and beef.



Card item specific properties (1 of 2)

- title (required)
 - title of the card, displayed as first line on the card
- description (optional)
 - Description of the card (displayed as second line)
- imageUrl (optional)
 - URL of the image to be displayed on card
- cardUrl (optional)
 - URL of site displayed opened when tapping the card
- actions (optional)
 - List of actions rendered with each card



Card item specific properties (2 of 2)

- visible (optional)
- iteratorVariable (optional)
 - Stamps cards by iterating over items stored in an array
- rangeStart / rangeSize (optional)
 - Used with iteratorVariable set
 - Stamp a subset of cards
- channelCustomProperties (optional)
 - Channel-specific properties that cannot be controlled with the standard properties



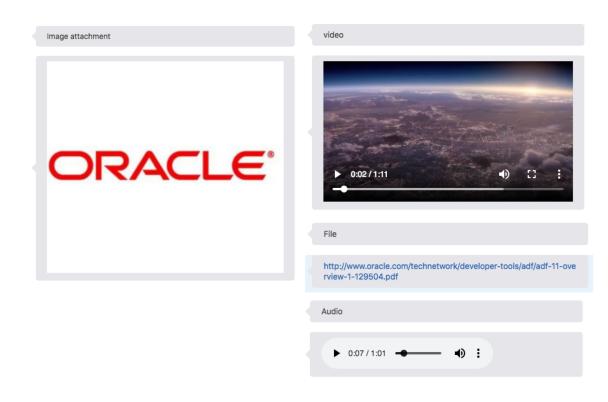
Text response item specific properties

- text (required)
 - The message text
 - Supports Apache FreeMarker expressions
- separateBubbles (optional)
 - Boolean property
 - Applicable when the iteratorVariable property is set
 - If set to true, each text item is sent as separate message
 - If set to false, one text message is sent with each text item starting at a new line
- actions (optional)
 - List of items that are rendered with the text response. Used e.g. to render select lists



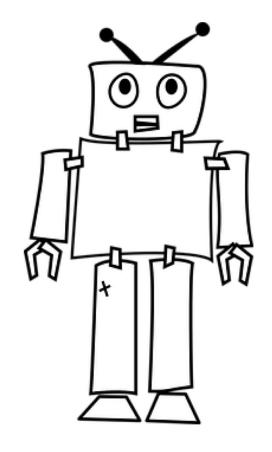
Attachment response item specific properties

- attachmentType (required)
 - -image
 - audio
 - video
 - file
- attachmentUrl (required)
 - Attachment download URL
- Attachments may or may not render inside messenger



The number of actions and cards that can be displayed for a bot response is channel dependent.

Use pagination when not all card or action items can be rendered

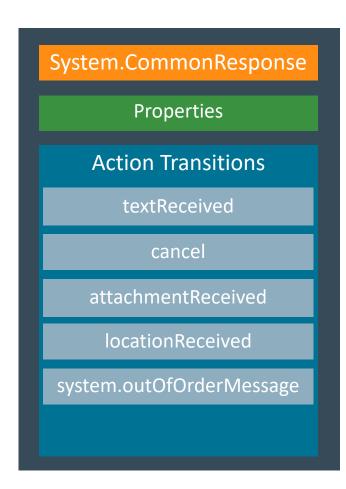


Topic agenda

- Component fundamentals
- 2 Component properties
- Response type specific properties
- 4 Component actions



System.CommonResponse component action transitions



- textReceived
 - Set when user enters free text or sends an emoji
- cancel
 - When data input attempts exceed maxPrompts value
- attachmentReceived
 - When user sends an image, audio, video or file attachment
- locationReceived
 - Followed when user sends geo location
- System.outOfOrderMessage
 - Out-of-order message handling



System.CommonResponse component action transitions



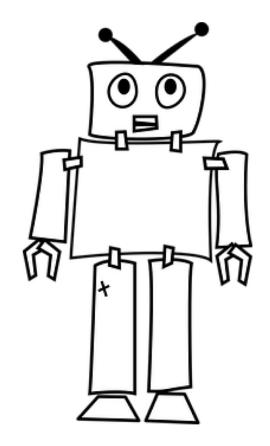
Custom actions set as part of the action payload

```
actions:
- label: "Postback action"
type: "postback"
payload:
action: "myCustomAction"
variables:
orderId: "${orders.id}"
```

Action name is mapped in actions transition on state

```
transitions:
actions:
myCustomAction: "stateHandlingTheAction"
```

Always define a "next" transition for a Common Response component state because not every component interaction results in an action transition



Integrated Cloud

Applications & Platform Services

ORACLE®



Oracle Digital Assistant Hands-On

TBD