

# Additions to Actions

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## Background

As schema.org Actions are adopted by the community for everything from reserving a flight to listening to music, we are finding a need to describe new Actions and conditions on when and where a provider is available for a user to complete an Action. The following new types and properties are proposed to help with describing these conditions.

## Thing > Action > OperateAction

The new OperateAction allows users to operate a device or application. It's sub-types are ActivateAction, DeactivateAction, SuspendAction, and ResumeAction.

OperateAction has no unique properties.

## Thing > Action > ActivateAction

An action which allows a user to start a device or application (e.g. starting a timer or turning on a flashlight).

## Thing > Action > DeactivateAction

Stop a device or application (e.g. stop a timer or turn off a flashlight).

## Thing > Action > SuspendAction

Momentarily pause a device or application (e.g. pause music or pause a timer).

## Thing > Action > ResumeAction

Resume an action which was formerly paused (e.g. resume playing music or resume the timer).

## ConsumeAction

The ConsumeAction type already exists in schema.org. To date, we have primarily discussed conditions on the entity performing the action, but we want to have conditions on the object of the action as well. The proposed new properties are:

Property	Expected Type	Description
contingentOnOffer	Offer	An Offer which must be accepted before the user can perform the Action. For example, the user may need to buy a movie before being able to watch it.

## Offer

The following property will be added to the existing Offer type.

Property	Expected Type	Description
notAvailableAtOrFrom	Place	The action is not available for agents/objects in the specified region.

## Examples

### Available in the US-only

```
{
  "@context": "http://schema.org",
  "@type": "WatchAction",
  "target": "http://www.hulu.com/the-daily-show-with-jon-stewart",
  "contingentOnOffer": {
    "@type": "Offer",
    "availableAtOrFrom": {
      "@type": "Country",
```

```
        "name": "USA"
      }
    }
  }
```

## Not Available in China

```
{
  "@context": "http://schema.org",
  "@type": "WatchAction",
  "target": "http://www.hulu.com/the-daily-show-with-jon-stewart",
  "contingentOnOffer": {
    "@type": "Offer",
    "notAvailableAtOrFrom": {
      "@type": "Country",
      "name": "CHN"
    }
  }
}
```

## Available in US and Later in Canada

```
{
  "@context": "http://schema.org",
  "@type": "WatchAction",
  "target": "http://www.hulu.com/the-daily-show-with-jon-stewart",
  "contingentOnOffer": [
    {
      "@type": "Offer",
      "availabilityStarts": "2014-07-01",
      "availableAtOrFrom": {
        "@type": "Country",
        "name": "USA"
      }
    },
    {
      "@type": "Offer",
      "availabilityStarts": "2014-08-01",
      "availableAtOrFrom": {
        "@type": "Country",
        "name": "CAN"
      }
    }
  ]
}
```

}  
]  
},