

# Controlling The Timing of Subcomponent Creation



This functionality is [Sneak Peek](#) status. This means that the **APIs may change**. We welcome your feedback, ideas, and code, but please use caution if you use this new functionality.

## New in v1.4

Sometimes, you may need to make sure that something in a parent component is fully in place before a subcomponent is instantiated: perhaps data needs to be fetched from an external source before a subcomponent can work with it, or a template needs to be rendered before the subcomponent can bind events to elements.

The `createOnEvent` allows you to specify an event to trigger the creation of a subcomponent: If this option is specified, the IoC system will wait until the parent component fires the named event before creating the subcomponent.

## Using `createOnEvent` in the parent's defaults

`createOnEvent` can be specified as part of a subcomponent's definition in the parent's `components` block, as shown in the example below:

```
fluid.defaults("fluid.uiOptions.preview", {
  ...
  events: {
    onReady: null,
    ...
  },
  components: {
    enhancer: {
      type: "fluid.uiEnhancer",
      createOnEvent: "onReady",
      options: {
        ...
      }
    }
  }
});
```

In this example, a component called `fluid.uiOptions.preview` is declaring a subcomponent called `enhancer`. The `enhancer` subcomponent must wait until the parent component has been fully initialized before it is created, so `createOnEvent` is used to specify the "onReady" event. The IoC framework will wait until the parent component (`fluid.uiOptions.preview`) fires its `onReady` event before instantiating the `enhancer` subcomponent.