

1. Introduction
 - a. Show Power Point "Framework Controls - Dialogs"
 - b. This samples shows how to realize dialogs inside a Framework Control
 - c. The dialogs can be created also from outside a Framework Control in a code behind file in a TcHmi project
 - d. Show final solution
 - i. Framework Control with a button, that opens the dialog in the middle of the screen
 - ii. Dialog contains sample text and another button, that closes the dialog
 - iii. Furthermore the dialog will be closed if the user presses on the overlay outside the dialog
2. Create new Framework Control "TcHmiDialog"
3. Add HTML button
 - a. Template.html

```
1 <div class="tc-hmi-dialog-template tchmi-box">
2   <div class="tc-hmi-dialog-container">
3     <button class="tc-hmi-dialog-button">
4       Open Dialog
5     </button>
6   </div>
7 </div>
```

2. Open Style.css on project layer and add CSS class:

```
16 .tc-hmi-dialog-button {
17   width: 100%;
18   height: 30px;
19   position: absolute;
20   top: 0px;
21   left: 0px;
22 }
```

- c. Build project, link with HMI project, instantiate the control
4. Open Source.js
 - a. PrevInit: Grab HTML elements

```
67 TcHmiDialog.prototype.__previnit = function () {
68   /** Handle template elements. Should be done before call to __previnit of super class. */
69   this.__elementTemplateRoot = this.__element.find('.tc-hmi-dialog-template');
70   this.__elementContainer = this.__elementTemplateRoot.find('.tc-hmi-dialog-container');
71   this.__elementButton = this.__elementContainer.find('.tc-hmi-dialog-button');
```

2. Attach: Add event listener for button click

```

// reference to this for other scopes
var $this = this;

// add event listener for click event
this.__elementButton.on('click', function (e) {
    $this.__showDialog($this);
});

```

c. Detach: Remove event listener

```

// remove event listener
this.__elementButton.off('click');

```

d. Add internal function "__showDialog"

i. Create dynamic HTML elements (content of the dialog):

```

137 // internal function to build up the dialog
138 TcHmiDialog.prototype.__showDialog = function ($this) {
139
140     // create popup element
141     var outerElement = $('<div>').css({
142         'width': '200px',
143         'height': '200px',
144         'background-color': 'white'
145     });
146
147     // create element with dialog text
148     var dialogText = $('<div>This is a sample dialog.</div>').css({
149         'width': '100%',
150         'height': '50px',
151         'position': 'absolute',
152         'top': '0px',
153         'font-size': '20px',
154         'text-align': 'center'
155     });
156
157     // create dialog button
158     var dialogButton = $('<button>OK</button>').css({
159         'width': '100px',
160         'height': '25px',
161         'position': 'absolute',
162         'bottom': '5px',
163         'right': '5px'
164     });

```

b. Add event listener for the "OK" button
(at first without the TopMostLayer.remove())

```

166 // add event listener for dialog button
167 dialogButton.on('click', function (e) {
168     // close the TopMostLayer
169     TcHmi.TopMostLayer.remove($this, outerElement);
170
171     // remove event listener
172     dialogButton.off('click');
173 });

```

- iii. Build up dialog:

```
175      // add elements to dialog
176      outerElement.append(dialogText);
177      outerElement.append(dialogButton);
```

- iv. Set dialog to TopMostLayer with Framework API:

```
179      // show the dialog in TopMostLayer
180      TcHmi.TopMostLayer.addEx(outerElement, {
181          centerHorizontal: true,
182          centerVertical: true,
183          // define when the TopMostLayer should be removed
184          removeCb: (data) => {
185              // user clicks in the background
186              if (data.canceled) {
187                  // remove the TopMostLayer
188                  TcHmi.TopMostLayer.remove($this, outerElement);
189              }
190          }
191      });
```

- v. Close TopMostLayer if the OK button is pressed:

```
// add event listener for dialog button
dialogButton.on('click', function (e) {
    // close the TopMostLayer
    TcHmi.TopMostLayer.remove($this, outerElement);

    // remove event listener
    dialogButton.off('click');
});
```

5. Build project, reload Desktop.view, open LiveView and show functionality