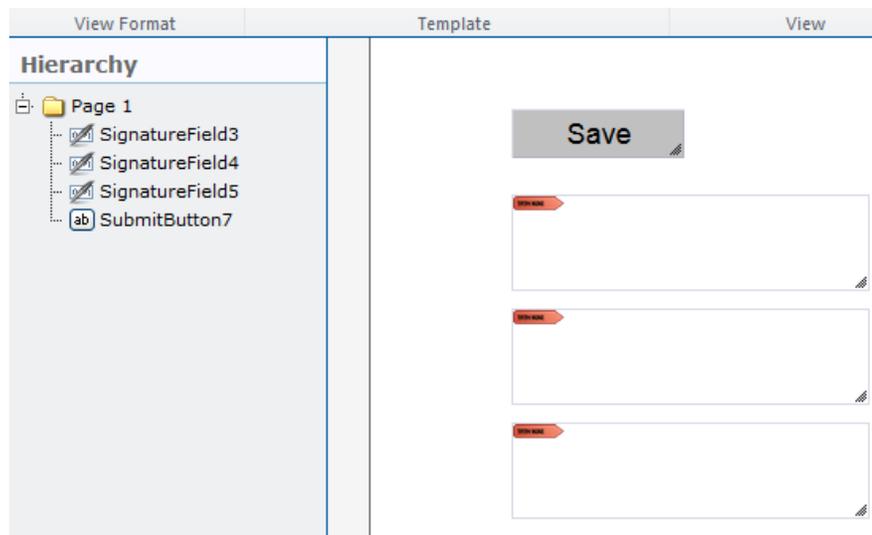


Showing and hiding submit button depending on signature fields status

This guide describes the steps to create a form that can be saved only if at least one signature field is populated with signature.

Static Acro form

Step 1. Create a template with the following fields:

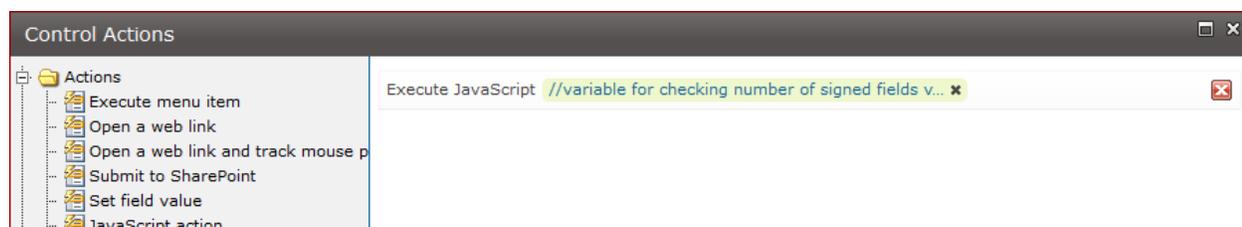


There are three signature Fields and one submit button.

The submit button „**SubmitButton7**” must be hidden (**PDF Form Tools** → **Properties** → **Presence** → **Hidden**)

This will prevent a form from being submitted before signing any signature field.

Step 2. Add JavaScript to „**RegularButton7**” actions: **PDF Form Tools** → **Properties** → **Actions**.



Script:

```
//variable for checking number of signed fields
var signCount = 0;

//check signature field 3
var sign = this.getField("SignatureField3");
var sigval = sign.signatureValidate();
if (sigval != 0){
    signCount++;
}

//check signature field 4
sign = this.getField("SignatureField4");
sigval = sign.signatureValidate();
if (sigval != 0){
    signCount++;
}

//check signature field 5
sign = this.getField("SignatureField5");
sigval = sign.signatureValidate();
if (sigval != 0){
    signCount++;
}

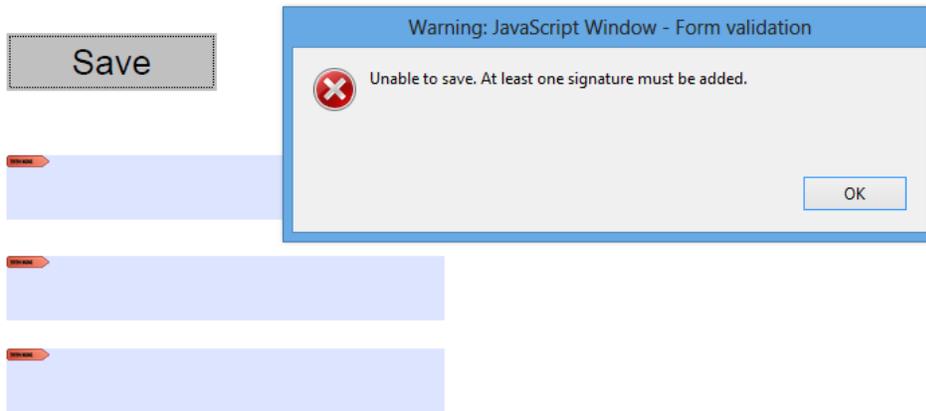
//check if at least one field is signed
if (signCount != 0) {
    //Save form
    eval("var sysData ="+this.getField("PDFSPSystemData").value);
    this.submitForm({cURL: (sysData.WebURL || "")+"/_layouts/PDFForms/PDF.aspx",
cSubmitAs: "PDF" });
} else {
    //Display message
    app.alert({ cMsg: "Unable to save. At least one signature must be added.",
cTitle: "Form validation" });
}
```

This code will check all three signature fields. If at least one field has a signature, form will be submitted. If there are no signatures, script will display a warning message.

Step 3. Deploy a form and run it.

Runtime result

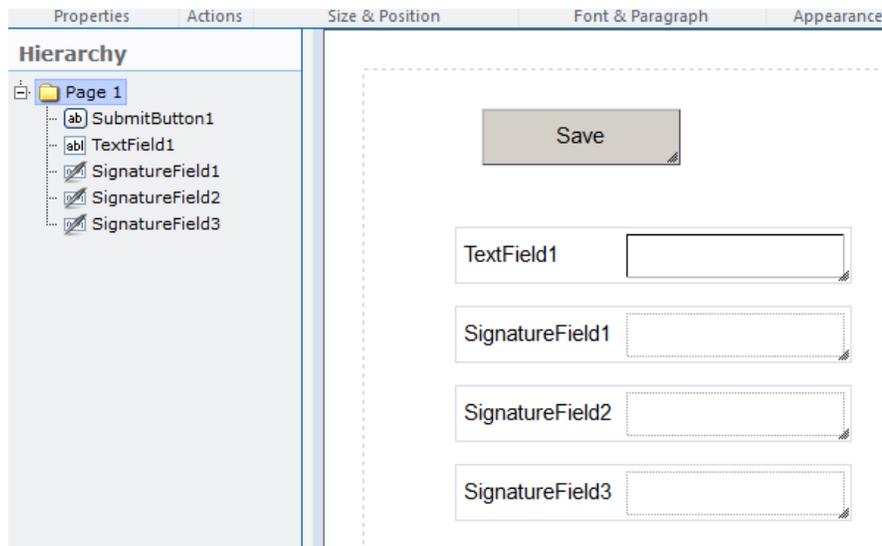
The following message will be displayed if a user click on **Save** button without signing at least one signature field:



A warning message will be displayed to let the user know that at least one signature field must be signed..

Dynamic XFA form

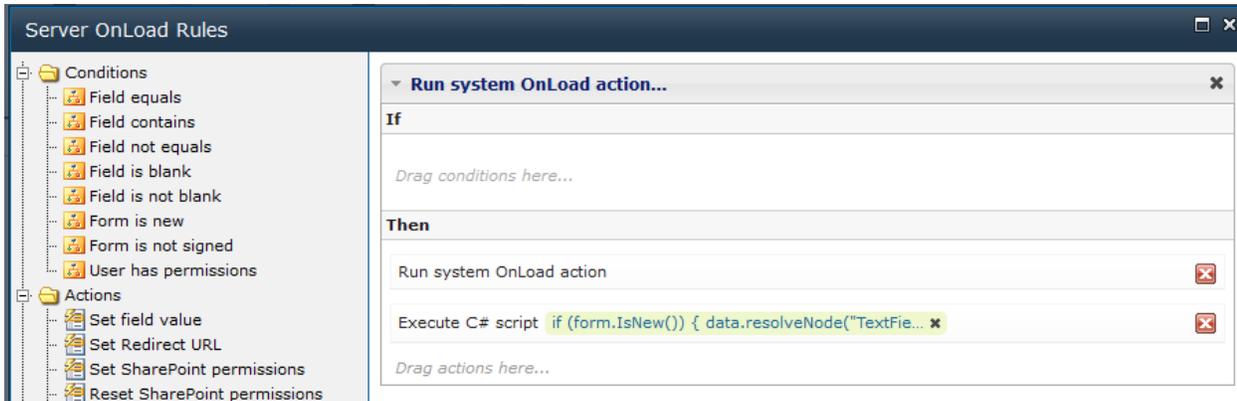
Step 1. Create a template with the following fields:



There are three signature fields, a text field and one submit button.

The text field „**TextField1**” must be hidden too. It will store a status of all signature fields.

Step 2. Add a server-side script to **Form Load** rule: *PDF Form Tools* → *Developer* → *Form load*.

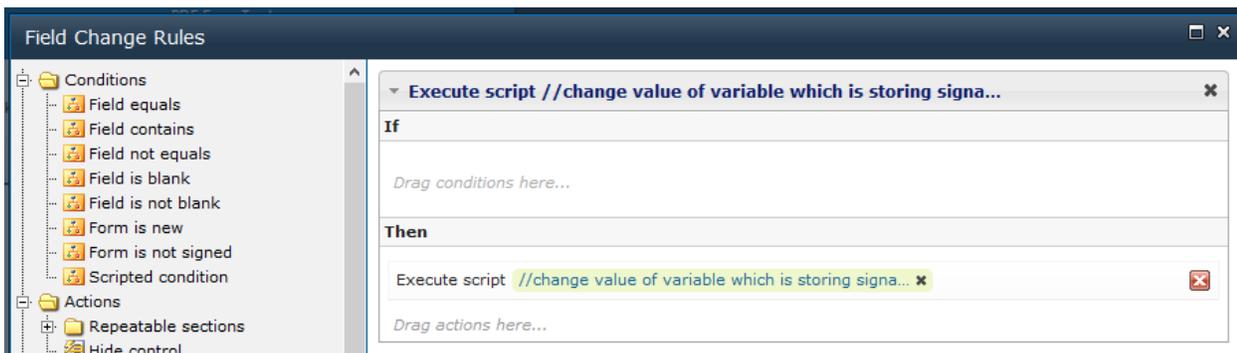


Place the following script under **Run system OnLoad** action:

```
if (form.IsNew()) {
    data.resolveNode("TextField1").value = "0,0,0";
}
```

This code will set status of signatures when opening the form for the first time.

Step 3. Add scripts for each signature field **Field Change** event: *PDF Form Tools* → *Properties* → *Actions* → *Field Change*.



The main idea of these scripts:

Current form has three signature fields, each field has its own status in „**TextField1**“:

```
data.resolveNode("TextField1").value = "0,0,0"; - added in (2.2)
```

Every zero is a status of signature field, so if „**SignatureField1**“ will be signed, data in „**TextField1**“ will be changed to „1,0,0“. The sum of these three values will be counted.

The result is greater than zero, means that at least one signature field is signed.

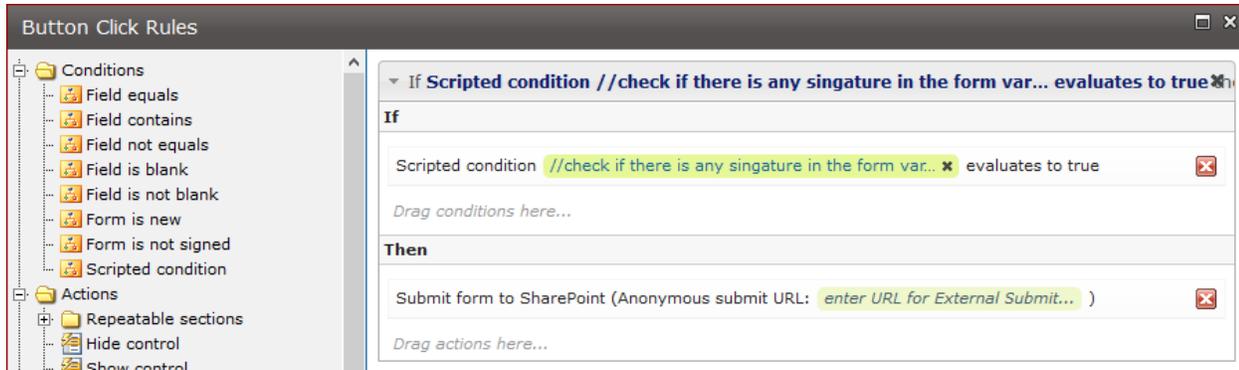
Step 3.1. Code for „SignatureField1“:

```
//change value of variable which is storing signature status
var s = xfa.resolveNode("$data..TextField1").value;
if (s.split(",")[0] == "0"){
    s = "1" + s.substring(1, s.length);
} else {
    s = "0" + s.substring(1, s.length);
}
//check if there is any singature in the form
var count = 0;
for (i=0; i<s.split(",").length; i++) {
    count += parseInt(s.split(",")[i]);
}
if (count > 0) {
    xfa.resolveNode('$form.Root.Default..SubmitButton1').presence = "visible";
} else {
    xfa.resolveNode('$form.Root.Default..SubmitButton1').presence = "hidden";
}
xfa.resolveNode("$data..TextField1").value = s;
```

Step 3.2. Code for „SignatureField2“:

```
//change value of variable which is storing signature status
var s = xfa.resolveNode("$data..TextField1").value;
if (s.split(",")[2] == "0"){
    s = s.substring(0, 4) + "1";
} else {
    s = s.substring(0, 4) + "0";
}
//check if there is any singature in the form
var count = 0;
for (i=0; i<s.split(",").length; i++) {
    count += parseInt(s.split(",")[i]);
}
if (count > 0) {
    xfa.resolveNode('$form.Root.Default..SubmitButton1').presence = "visible";
} else {
    xfa.resolveNode('$form.Root.Default..SubmitButton1').presence = "hidden";
}
xfa.resolveNode("$data..TextField1").value = s;
```

Step 4. Add a script to „SubmitButton1” rules’ conditions section *PDF Form Tools* → *Properties* → *Actions* → *Button Click*.



Script:

```
//check if there is any singature in the form
var count = 0;
for (i=0; i<s.split(",").length; i++) {
    count += parseInt(s.split(",")[i]);
}
if (count > 0) {
    return true;
} else {
    xfa.host.messageBox("Unable to save. At least one signature must be added.",
"Form validation", 0);
    return false;
}
```

This code will check if any signature field has been signed.

An error message will be displayed to let the user know that at least one signature field must be signed.

Step 5. Deploy a form and run it.

Runtime result

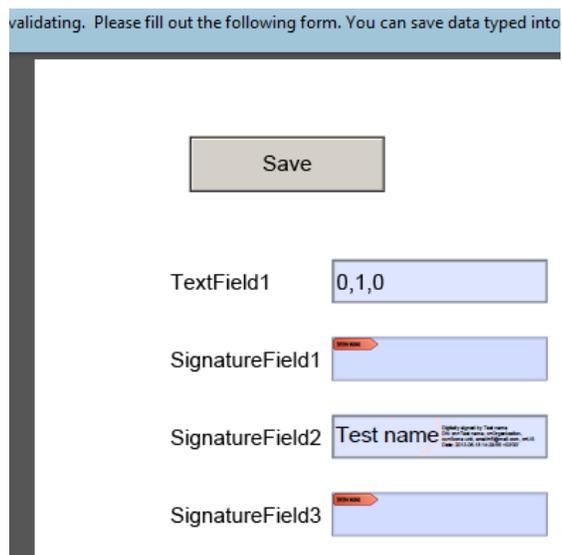


The screenshot shows a form with a "Save" button at the top. Below it are four fields: "TextField1" containing "0,0,0", and three "SignatureField" boxes (SignatureField1, SignatureField2, SignatureField3). A blue warning dialog box is overlaid on the form, titled "Warning: JavaScript Window - Form validation". The dialog contains a red 'X' icon and the text "Unable to save. At least one signature must be added." with an "OK" button at the bottom right.

„**Text field1**” has „0,0,0” since the form has been just created and has no signatures yet. Clicking on **Save** button has triggered a warning dialog.

NOTE: „**TextField1**” is visible only for demonstration purposes. It must be hidden in order to prevent changing data inside it.

validating. Please fill out the following form. You can save data typed into



The screenshot shows the same form as above, but now the "Save" button is active. The "TextField1" value has changed to "0,1,0". The "SignatureField2" now contains a signature that looks like "Test name" with a red scribble underneath. The other fields remain empty.

User added signature „**TextFie**ld1****” value changed to „0,1,0”. The submit button is now available.