

# Checklist for legal-for-trade scales with SIWAREX FTA

Project \_\_\_\_\_

Author \_\_\_\_\_

<b>1</b>	<b><u>Project Planning</u></b>  Project planning begins with the selection of the devices for a weighing application.
<b>1.1</b> <input type="checkbox"/>	<b>Does the application match the functionality of automatic (AWI) or non-automatic (NAWI) weighing instrument?</b>  Looking into the application has to be done by the customer and the local bureau of standards for weights and measures. For any questions you can call the SIWAREX-Hotline Tel.: +49 (0)721 595 2811 Mail: <a href="mailto:hotline.siwarex@siemens.com">hotline.siwarex@siemens.com</a> <a href="http://www.siemens.com/automation/support-request">www.siemens.com/automation/support-request</a>  Appropriate to the determined scale type the respective EU type-examination certificate has to be used.
<b>1.2</b> <input type="checkbox"/>	<b>How is the weighing instrument placed on the market?</b>  The EU type-examination certificates of the FTA for the used operation mode according to the NAWI or MID directive are applicable, see folder "Certificates_and_approvals" of the legal-for-trade calibration set.  A two-step conformity evaluation process is used which consists of the EU type-examination certificate and the compatibility check. 1. EC type-examination certificate For that purpose it can be applied for a parallel approval to the Siemens approval. More information you can get at the SIWAREX hotline. 2. Compatibility check The compatibility check can be carried out by a notified body or an authorized organization. The notified bodies can be found here: <a href="http://ec.europa.eu/growth/tools-databases/nando">http://ec.europa.eu/growth/tools-databases/nando</a> . Generally it is possible that any notified body which is authorized for the respective scale type carries out the compatibility check.  The EU type-examination certificate is valid for all scales with the same type of weighing instrument; the compatibility check has to be done for each scale.  If a parallel approval is not possible, an authorization can be considered. This document from Siemens must be available for application and execution of a compatibility check. Terms for the authorization have to be clarified with Siemens in advance.  Up-to-date certificates can be found in the Siemens Industry Online Support under <a href="http://support.automation.siemens.com/WW/view/en/64722267/134200">http://support.automation.siemens.com/WW/view/en/64722267/134200</a>
<b>1.3</b> <input type="checkbox"/>	<b>Does the device configuration correspond to the regulations?</b>  Check this with help of the EU type-examination certificate.

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<b>1.4</b>	<b>How are the load cells considered?</b> <input type="checkbox"/> The compatibility has to be proved. This can be done with the compatibility form sheet for modules, see Excel-sheet in the legal-for-trade calibration set or contact the hotline or your sales engineer. Note: In connection with a SIWAREX IS the parameter "Portion of calibration error limit" is 0,5 (default value without SIWAREX IS: 0,4)
<b>1.5</b>	<b>Do the selected products fulfill the required accuracy and resolution?</b> <input type="checkbox"/> The accuracy calculation of the overall system load cells, electronics and mechanics has to be done. The compatibility form sheet for modules might help with this. For further questions also contact also the hotline or your sales engineer.
<b>1.6</b>	<b>Which weight display will be used?</b> <input type="checkbox"/> 1.) SIEBERT S102 : S102-W6/14/0R-000/0B-SM 2.) SecureOCX for WinCC flexible Suitable for SIMATIC HMI : e.g. TP177B, OP177B, TP277, OP277, MP277 or MP377.... For the use of the "legal for trade weight display" for SIWAREX FTA in WinCC flexible, there is a SecureOCX software available for WinCCflexible. <a href="http://support.automation.siemens.com/WW/view/en/37453235">http://support.automation.siemens.com/WW/view/en/37453235</a>  A list of all SIMATIC HMI panels that might be used you find in the manual chapter 8 <a href="http://support.automation.siemens.com/WW/view/en/17970155">http://support.automation.siemens.com/WW/view/en/17970155</a> 3.) SecureDisplay for TIA-Portal Suitable for Windows CE based SIMATIC panel, e.g. SIMATIC comfort panels  A description of the SecureDispaly can be found under <a href="http://support.automation.siemens.com/WW/view/en/107196401">http://support.automation.siemens.com/WW/view/en/107196401</a>
<b>1.7</b>	<b>Are the weight data going to be logged?</b> <input type="checkbox"/> The designated printer has to have a CE sign, see also the EU type-examination certificate. It is also possible to log the weight data on the MMC card that is inserted to the SIWAREX FTA.
<b>1.8</b>	<b>Are the load cells going to be installed in an Ex area?</b> <input type="checkbox"/> If an intrinsically safe power supply is needed, load cells with a corresponding Ex-certificate and the SIWAREX IS have to be used. If no intrinsically safe power supply is necessary (e.g. for WP200 load cells in zone 2/22), only load cells with Ex-certificate are necessary. The certificates are available here: <a href="http://support.automation.siemens.com/WW/view/en/36541280/134200">http://support.automation.siemens.com/WW/view/en/36541280/134200</a>

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<p><b>2</b></p>	<p><b><u>Compatibility check (formerly: first official calibration) preparation</u></b></p> <p>The compatibility check has to be done by a calibration officer on behalf of a notified body. Preparations have to be done by a specialist previously.</p>
<p><b>2.1</b></p> <p><input type="checkbox"/></p>	<p><b>Coordination with the calibration officer / notified body</b></p> <p>Dates, exact process, preparation of calibration weight etc. are coordinated with the calibration officer or notified body respectively. Contact address for Germany: <a href="http://www.eichamt.de">www.eichamt.de</a> or notified body <a href="http://ec.europa.eu/growth/tools-databases/nando">http://ec.europa.eu/growth/tools-databases/nando</a></p>
<p><b>2.2</b></p> <p><input type="checkbox"/></p>	<p><b>Preparation of certificates</b></p> <p>Declarations of conformity, type examination certificate as well as other certificates of the main components of the scale have to be available.</p> <ul style="list-style-type: none"> <li>- Link to Siwarex FTA EC-Declaration of conformity: <a href="http://support.automation.siemens.com/WW/view/en/29715516">http://support.automation.siemens.com/WW/view/en/29715516</a></li> </ul> <p>If a parallel approval is applicable the owner has to declare the conformity.</p> <ul style="list-style-type: none"> <li>- Scale (Electronic + Mechanics): EU type examination certificate (according to NAWID or MID) <a href="http://support.automation.siemens.com/WW/view/en/17831309/134200">http://support.automation.siemens.com/WW/view/en/17831309/134200</a></li> <li>- Load cells: OIML certificate or type approvals <a href="http://support.automation.siemens.com/WW/view/en/10807015/134200">http://support.automation.siemens.com/WW/view/en/10807015/134200</a></li> <li>- If a Siebert 102 is use as main display, the test certificate of the Display has to be added. The test certificate is in the calibration set.</li> </ul>
<p><b>2.3</b></p> <p><input type="checkbox"/></p>	<p><b>Preparation of operating manuals</b></p> <ul style="list-style-type: none"> <li>- Manual Siwarex FTA:</li> <li>- <a href="http://support.automation.siemens.com/WW/view/en/17970155">http://support.automation.siemens.com/WW/view/en/17970155</a></li> <li>- Instructution to check a SIWAREX FTA scale This document you find in the calibrations set under "Accompanying document for certificate". If you use your own HMI project you have to adapt this document to your project.</li> </ul>
	<p><b>Preparation of test certificates of peripheral equipment</b></p> <p>Prepare all the test certificates for peripheral equipment (e.g. printer, display, verifiable memory).</p>
<p><b>2.5</b></p> <p><input type="checkbox"/></p>	<p><b>Preparation of calibration sticker</b></p> <p>Prepare the calibration sticker in accordance to the operation mode (NAWI or AWI). Use the edible Power Point File which you find in the legal-for-trade calibration set and edit the actual scale parameters. The order number of the legal-for-trade calibration set is 7MH4900-2AY10.</p>

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<b>2.6</b>	<b>Check scale construction based on the type certification</b> <input type="checkbox"/>
<b>2.7</b>	<b>Perform scale adjustment</b> <input type="checkbox"/> Perform scale adjustment using calibrated calibration weights, theoretical adjustment is not permitted.
<b>2.8</b>	<b>Check the scale with calibrated calibration weights</b> <input type="checkbox"/>
<b>2.9</b>	<b>Coordinate the legal-for-trade calibration with the responsible end-user (dates, process)</b> <input type="checkbox"/>
<b>2.10</b>	<b>Accomplishment of the calibration</b> <input type="checkbox"/> Calibration will be done by a calibration officer or named body (MID). <a href="http://ec.europa.eu/growth/tools-databases/nando">http://ec.europa.eu/growth/tools-databases/nando</a>  Possibly support personal and calibration weight have to be supplied.
<b>2.11</b>	<b>Attachment of the calibration sticker</b> <input type="checkbox"/>
<b>2.12</b>	<b>Place the secure stickers in the defined location according to the type certificate</b> <input type="checkbox"/> The secure stickers can be cut out of the adhesive paper.
<b>2.13</b>	<b>Handover of the acceptance test record</b> <input type="checkbox"/>
<b>2.14</b>	<b>Certificate of conformity from the notified body or its representative</b> <input type="checkbox"/> After a positive conformity check the notified body issues the certificate of conformity based on the EU type-examination certificate. The notified body generally issues the certificate of conformity after the scale has been put into service.
<b>2.15</b>	<b>Register the scale at notified body</b> <input type="checkbox"/> In Germany a legal-for-trade scale must be registered at the notified body ("Eichamt") within six weeks after it has been put into service. Preferably for this purpose you use the central register platform under <a href="http://www.eichamt.de">www.eichamt.de</a> . Further information can be found under <a href="http://www.agme.de">www.agme.de</a> under "Fachinformation".