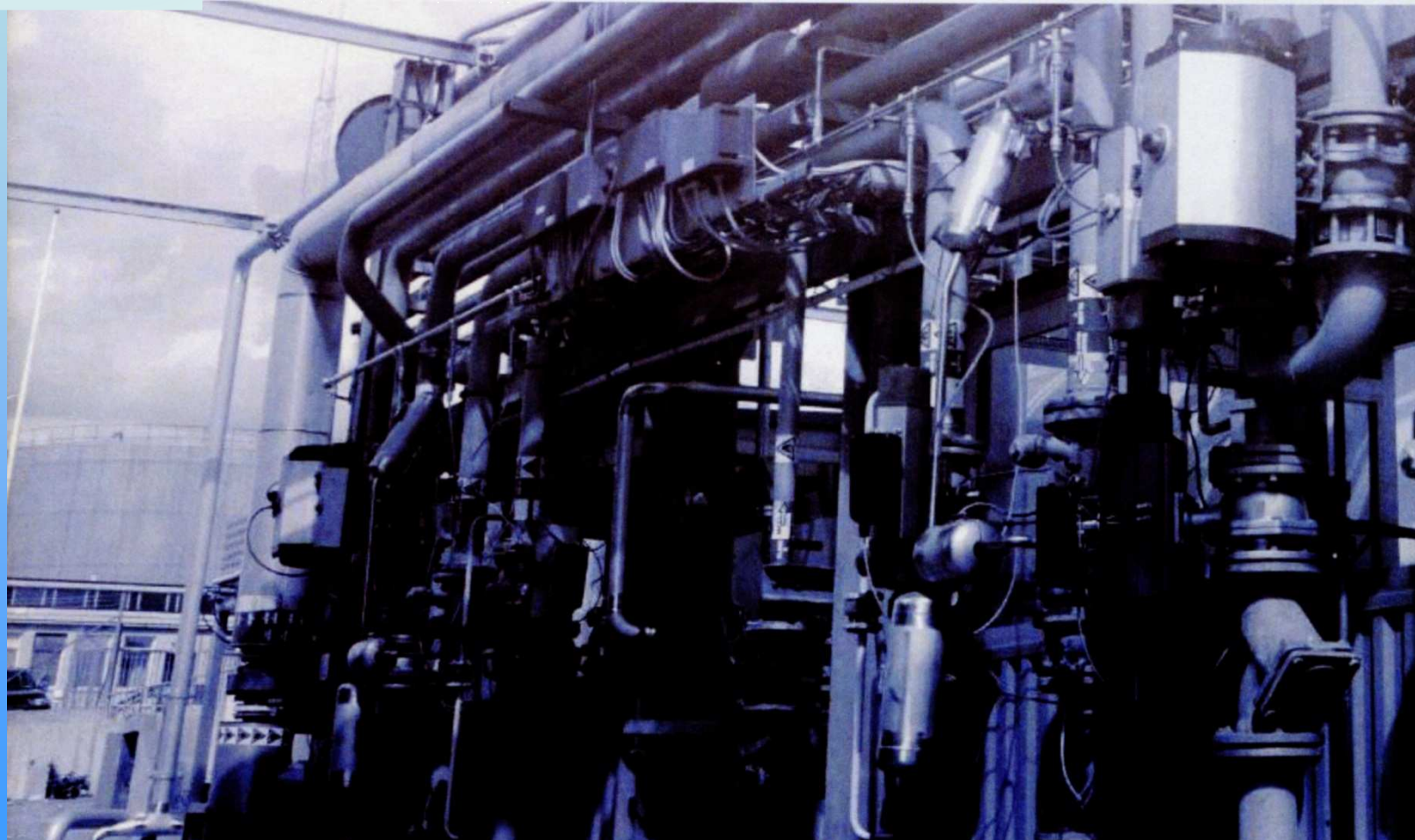




UNITED NATIONS

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

## A Common Regulatory Framework for Equipment Used in Environments with an Explosive Atmosphere

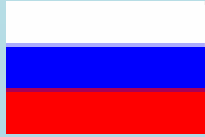


# The present

At present the legitimacy of confirmation of Ex-equipment conformity understood as mandatory recognition of conformity assessment results is only provided at regional and national levels. To transfer Ex-equipment to other regions and countries, it is necessary to confirm its conformity again.



## Example



Russian Federation

In the Russian Federation the validity of other countries' documents confirming Ex-equipment conformity is regulated by Article 30 of Federal Law «On Technical Regulating» № 184-FZ of 27 December 2002:

### **Article 30. Recognition of Conformity Assurance Results**

Conformity assurance documents, marks of conformity, reports of researches (tests) and measurements of product, obtained outside the Russian Federation territory, may be recognized according to the international treaties of the Russian Federation.

## What is required

The main purpose of the Ex-CROs is to provide the legitimacy of conformity assurance in the countries (regions) that joined the Ex-CROs, and in the prospect all over the world.

The procedure for joining the Ex-CROs by the countries (regions) shall be stated in the Ex-CROs document at Governmental level.

The precondition for the countries (regions) joining the Ex-CROs is the compliance of regional and national systems of conformity assurance to the Ex-CROs requirements that has not been achieved by now.

# The future

Compliance of regional and national conformity assurance systems  
with the Ex-CROs requirements

Ex-CROs

IEC IECEx IECEx IECEx



ATEX

Other regional systems



EurAsEC

 Austria  
 Belgium  
 Bulgaria  
 United Kingdom  
 Hungary  
 Germany  
 Greece  
 Denmark  
 Ireland  
 Spain  
 Italy  
 Cyprus  
 Latvia  
 Lithuania

 Luxemburg  
 Malta  
 Netherlands  
 Poland  
 Portugal  
 Romania  
 Slovakia  
 Slovenia  
 Norway  
 Finland  
 France  
 Croatia  
 Czech Republic  
 Sweden  
 Switzerland  
 Estonia

 Australia  
 Brazil  
 India  
 Canada  
 China  
 Korea  
 Malaysia  
 New Zealand  
 Singapore  
 USA  
 Turkey  
 South Africa  
 Japan

 Russia  
 Belarus  
 Kazakhstan  
 Kyrgyzstan  
 Uzbekistan  
 Tajikistan  
  
**Observers**  
 Armenia  
 Moldova  
 Ukraine

The Russian party has carried out a comparative analysis of provisions of Ex-CROs and those of the International System IECEx, European System ATEX and EurAsEC System and has found discrepancies between the provisions of the Ex-CROs, IECEx, ATEX and EurAsEC.




The Ex-CROs analysis (on 29 pages) was forwarded to the UNECE WP 6.0.

# Ex-CROs Analysis

In this short presentation it is not possible to analyze in detail the revealed differences in the provisions of the above mentioned systems. We will only cite the principal differences in the:




- ❖ scope;
- ❖ requirements;
- ❖ conformity assessment;
- ❖ accreditation.

# Scope




<b>Ex-CROs</b>	 <b>IECEX</b>	 <b>ATEX</b>	 <b>EurAsEC</b>
Ex-equipment	Ex-electrical equipment	Ex-equipment	Ex-equipment






## Requirements

Ex-CROs	 <b>IECEX</b>	 <b>ATEX</b>	 <b>EurAsEC</b>
1. The CRO's requirements (UN L-recommendation) + presumption of conformity with standards	1. Conformity with standards	1. ATEX requirements + presumption of conformity with standards	1. EurAsEC requirements + presumption of conformity with standards
2. Explosion protection requirements	2. Explosion protection requirements	2. Explosion protection requirements + requirements to other safety aspects	2. Explosion protection requirements

## Conformity assessment

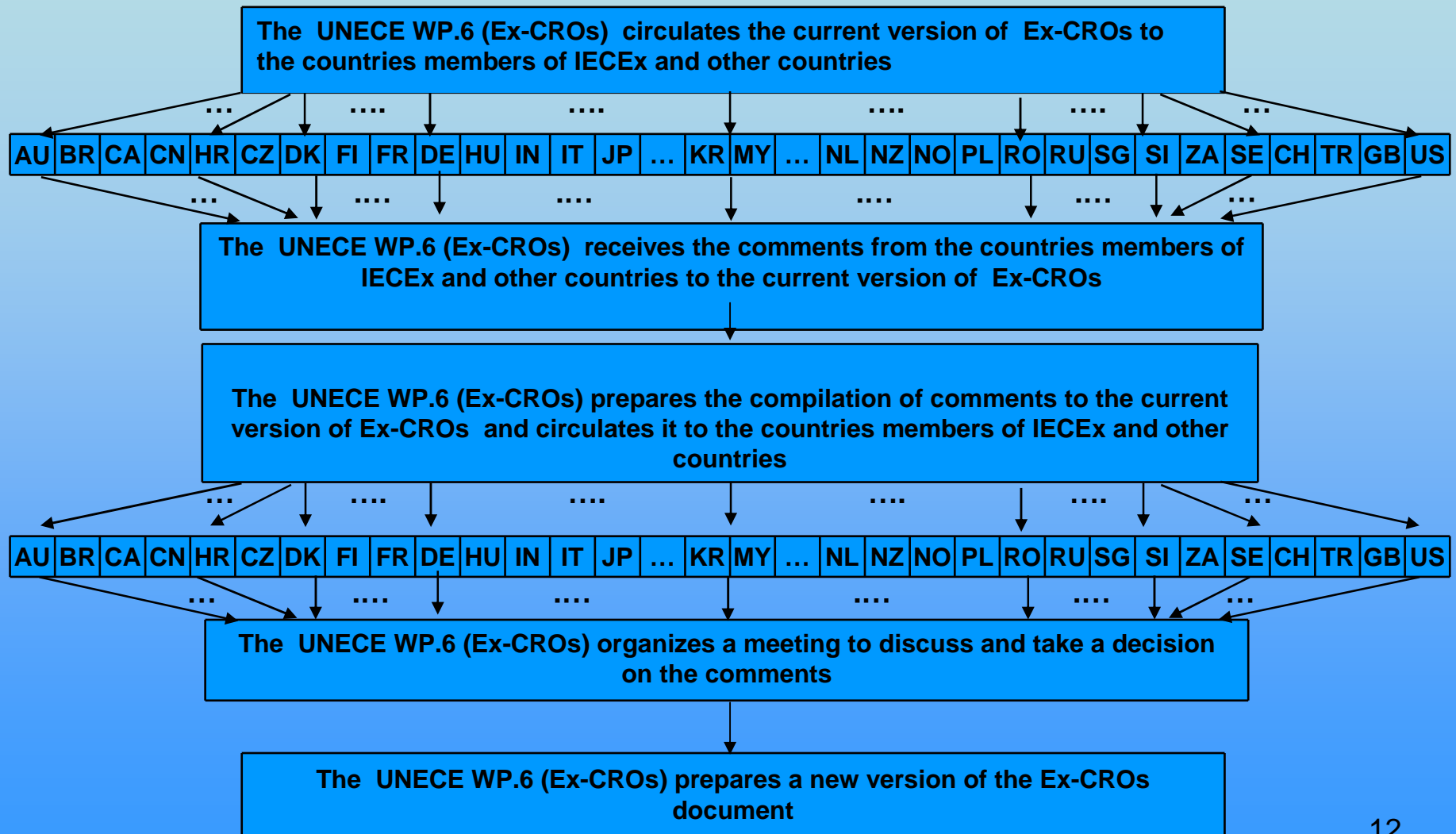
Ex-CROs	 <b>IECEX</b>	 <b>ATEX</b>	 <b>EurAsEC</b>
<p><b>Certification in accordance with the ISO System 5</b>                      (it includes product type testing, product certification and assessment of the manufacturer's quality management system ,                      Surveillance of the quality management system is carried out and samples of the product may be taken from either the market or the point of production or both and may be assessed for ongoing conformity )</p>	<p><b>Certification in accordance with the IECEx Certification Scheme analogous to ISO System 5 + Unit verification</b></p>	<p><b>The Modules taking account of the risk level and providing for use of the declaration of conformity with supporting documents issued by the third party</b></p>	<p><b>Certification in accordance with 4 Schemes</b></p>

## Accreditation

<b>Ex-CROs</b>	 <b>IECEX</b>	 <b>ATEX</b>	 <b>EurAsEC</b>
Assessment of CBs and TLs conformity with participation of ILAC	Assessment of CBs and TLs conformity within the IECEx System	CBs and TLs notification	CBs and TLs notification

It is possible to come to harmonization from the current situation by mutual updating of documents of all Systems. For this we suggest the following procedure:

### Suggested procedure for further work



Due treatment of problem of legitimacy of confirmation of Ex-equipment conformity and taking into account of received comments and opinions in the new version of the CROs will allow to have the Ex-CROs as a basic document regulating the conformity assurance on a global scale

Thank you for your  
attention!