IECEx System Update

IECEx ExTAG Training
September 2018

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IECEx Secretariat

This session …

1. Reporting
2. Reminders
3. Reading (essential)
4. References
5. Revisions / improvements

Secretariat Monitoring

An audit of **862** x 'on-line' IECEx Equipment CoCs selected at random as representing a **~15% sample** of all those published in the second half of 2017 and 2018 YTD and audited showed

- IECEx Certified Equipment Certificates with zero issues = **800**
- IECEx Certified Equipment Certificates with one issue = **60** (= 6.9% of sample)
- IECEx Certified Equipment Certificates with multiple issues = 2 (= <1% of sample)

and

- IECEx Service Facility CoCs … 0 of **28** audited had an issue
- IECEx Personnel CoCs … 3 of **98** audited had an issue

Overall this a better result than previous years but we are sure that you will agree that there is room for improvement !

Secretariat Monitoring

Breakdown of **major issues** in IECEx Equipment Certificates audited:

- Standards listed on CoC do NOT match Standards (including Edition #) on ExTR (main issue observed was CoC citing later Edition than ExTR)
- Equipment description is NOT clear and sufficiently detailed
- “Specific Conditions of Use” details NOT specified for “X” type Certificates
- Linked QAR is NOT current
- Manufacturer on CoC does NOT match QAR details and/or QAR(s) does NOT cover all manufacturing locations listed on CoC

Ref = ExMC/1386/R as 2018 Report Card

Secretariat Monitoring

Common Problem leading to “good” on-line Certificate BUT “poor” PDF copy is use of **/*** or similar in Equipment field to describe a range of variations >>> PDF writer sees this as a command to create blank page

Solutions = avoid the use of this OR insert spaces (eg. ** / ***)

Secretariat Monitoring

IECEx On-line Certificates & Internet Browsers – *best results ….*

- ✓ Internet Explorer 11
- ✓ Google Chrome
- ☒ Microsoft Edge
- ☒ Firefox

IECEx Assistance

REMINDER

PLEASE assist us to help you and your clients by advising us of any changes to organisation name, address, accreditation status, key personnel (especially the main contact person for IECEx matters) etc etc BEFORE or ASAP AFTER the change

Refer IECEx 02, Clauses 11.1.2, 11.1.3 and 11.1.9

Reminder of Features introduced previously

REMINDER: *the need to manage Suspended Certificates …*

ACTION ITEM from the 2013 meeting of the IECEx Executive:

> *"… the Secretariat to conduct an annual review of suspended Certificates, remind ExCBs with suspended certificates that a review with the manufacturer is needed within 1 month, and to ask the ExCB to show cause why the Certificate(s) should not be cancelled. A failure to respond within 1 month will lead to an automatic cancellation."*

Current status = some ExCBs have publicly visible IECEx Certificates that have been SUSPENDED for over 7 years.

In the view of the Secretariat these should be investigated by the ExCB and EITHER up-issued after resolution of the reasons for suspension OR cancelled.

The Secretariat can provide a report of these Certificates and assist with cancellations on request.

Reminder of Features introduced previously

REMINDER: *following a request from ExCBs, the Secretariat arranged for two major features to be added to the IECEx On-line website to provide separate listings for the following:*

- ***A ExCB's Out of Date QARs***
- ***A ExCB's CoCs with Out of Date QARs***

Noting that

- Each ExCBs are only able to view their own lists.
- Guidance is provided in Document ExTAG/245/INF
- The "Out of Date" status of a QAR (and the CoC(s) it supports) is publicly visible

Out of Date QARs

It is recognised that some QARs will never be updated. The reasons for this can include:

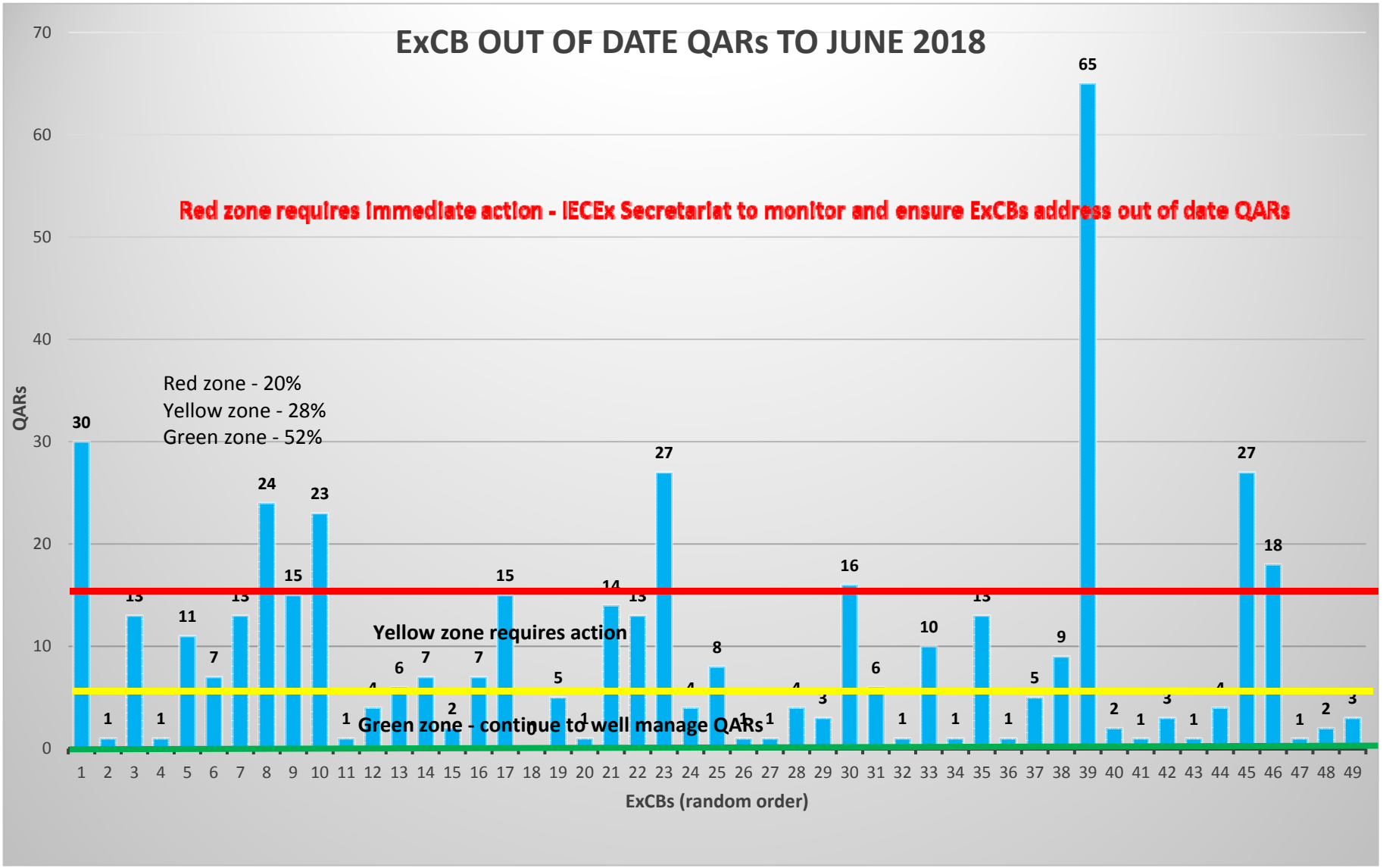
1. *The linked CoC has been cancelled.*

2. *Another ExCB has taken over the surveillance of the manufacturer.*

3. *The ExCB has raised another QAR to supersede the original QAR.*

In such cases ExCBs are requested to advise the IECEx Secretariat and if it can be shown that the QAR will never be updated and that all Current CoCs linked to the now out of date QAR have been updated and linked to a valid QAR, the Secretariat can remove the QAR from the ExCBs "QAR, out of date" list.

Out of Date QARs - Status



Essential reading for ExCB Staff

- ***Document ExTAG/245/INF***

  IECEx On-Line Website Update: ExCBs-QARs out of date and ExCBs-CoCs with QARs out of date.

- ***Document ExTAG/164/INF***

  Scheduling of Surveillance Assessments + Re-Assessments for the IECEx 02 Certified Equipment Scheme.

- ***Operational Document OD 009***

  IECEx Certified Equipment Scheme, Procedures for the Issuing of IECEx Certificates of Conformity, IECEx Test Reports and IECEx Quality Assessment Reports

- ***Operational Document OD 011 (Series)***

  Guidance on Use of the IECEx Internet based "On-Line" Certificate of Conformity System

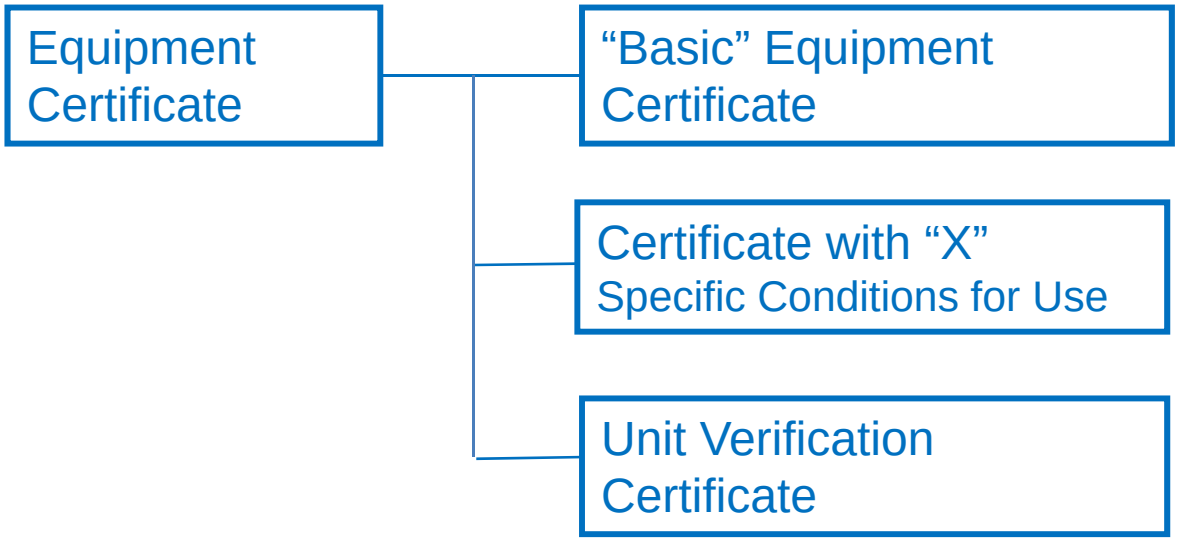
- ***Operational Document OD 033***

  Unit Verification Certificates

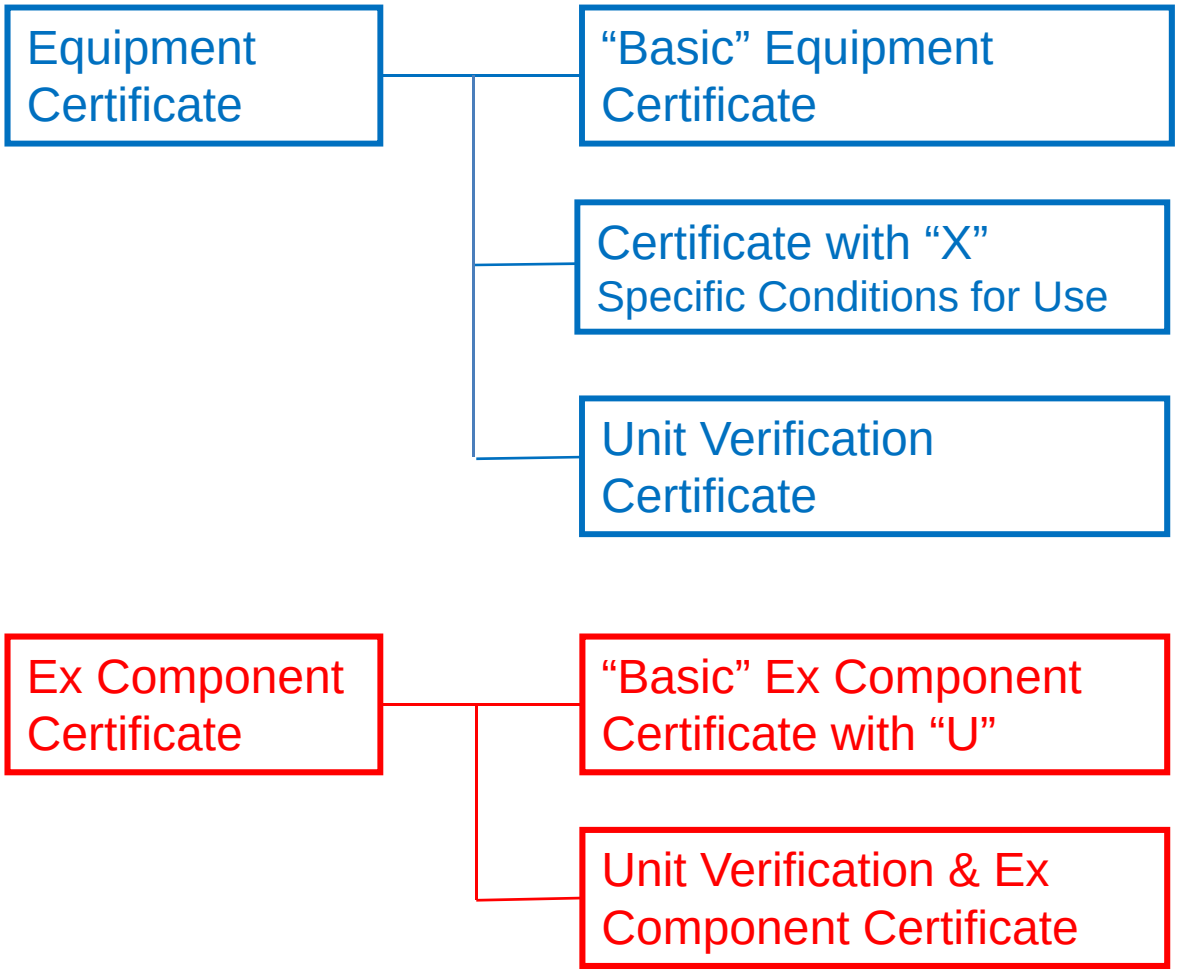
“User Friendliness” – NEW TOOLS

- Ex Component Certificate creation automation
  - *presented to 2017 IEC TC 31 Meeting in Sydney*
  - *discussed and accepted by 2017 ExMC WG1 meeting*
  - *Launched for ExCB use on 4th June 2018*

IECEx Certificate Types

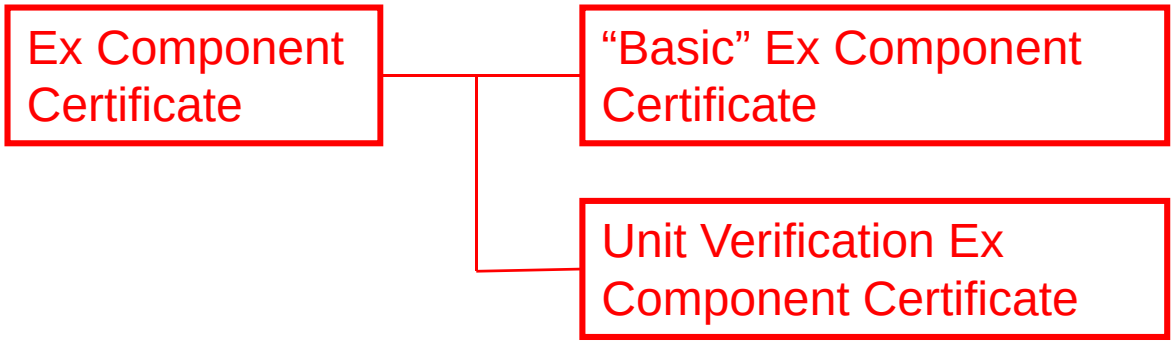


IECEx Certificate Types



ExTAG/402/CD
ExTAG/485/INF

IECEx Certificate Types



“Automating” Ex Component Certificates

Extract from **ExTAG/504/INF** ….

1. ExCBs can independently create own Ex Component Certificates

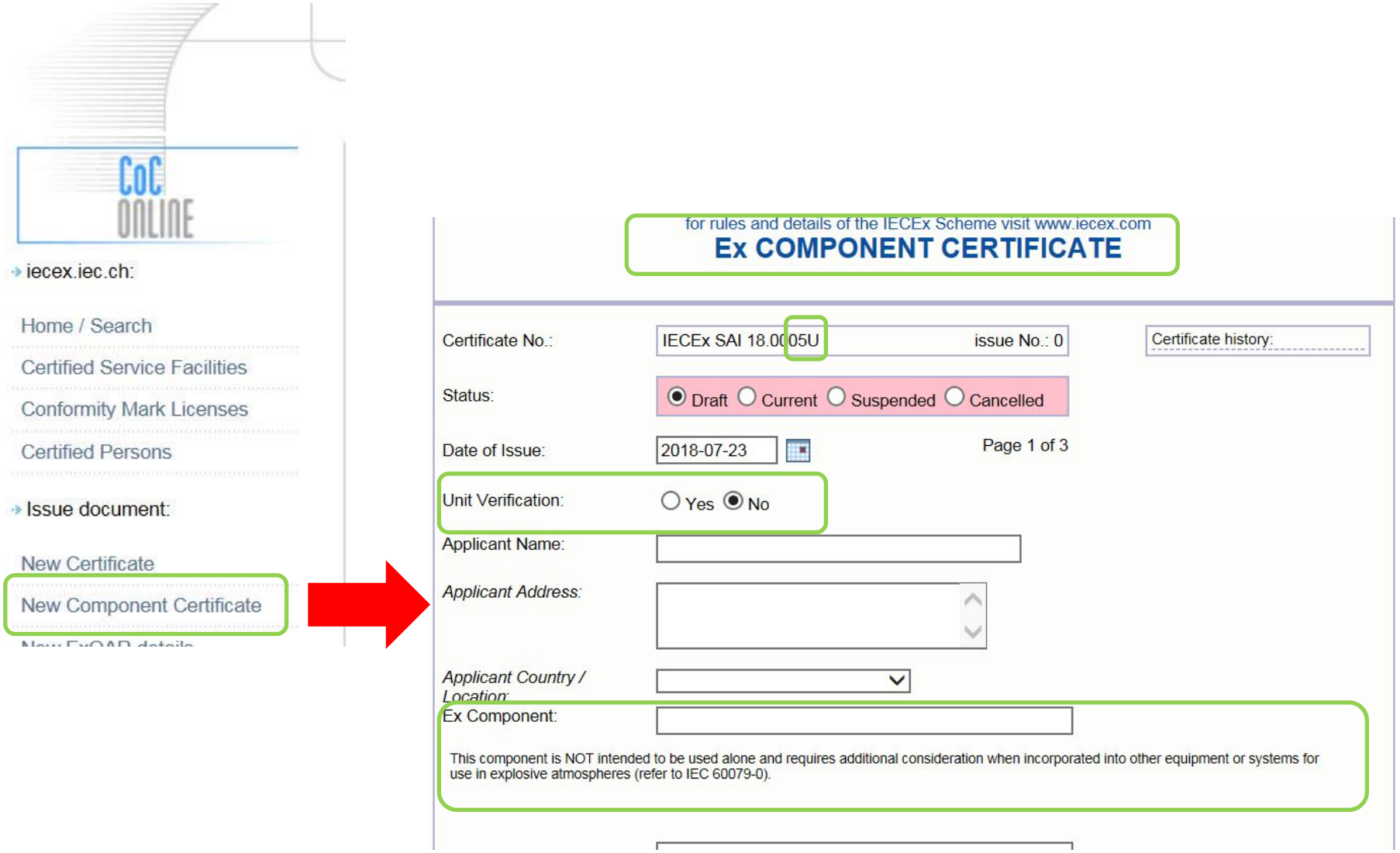
2. existing draft Certificates in the system can have a ‘U’ suffix added manually by the IECEx Secretariat Administrator on request from ExCBs in the same way that we do now and that the Secretariat will be able to continue to do this for existing drafts after the new Ex Component Certificate format facility is made ‘live’

3. existing Current Certificates in the system to which the Administrator has already added a ‘U’ will remain on the system with the current format and with the ‘U’ suffix to the Certificate #

4. If an ExCB needs to ‘up-issue’ an existing Current Certificates in the system that already has a ‘U’, the draft New Issue will have the new Ex Component Certificate format template

“Automating” Ex Component Certificates

“Automating” Ex Component Certificates



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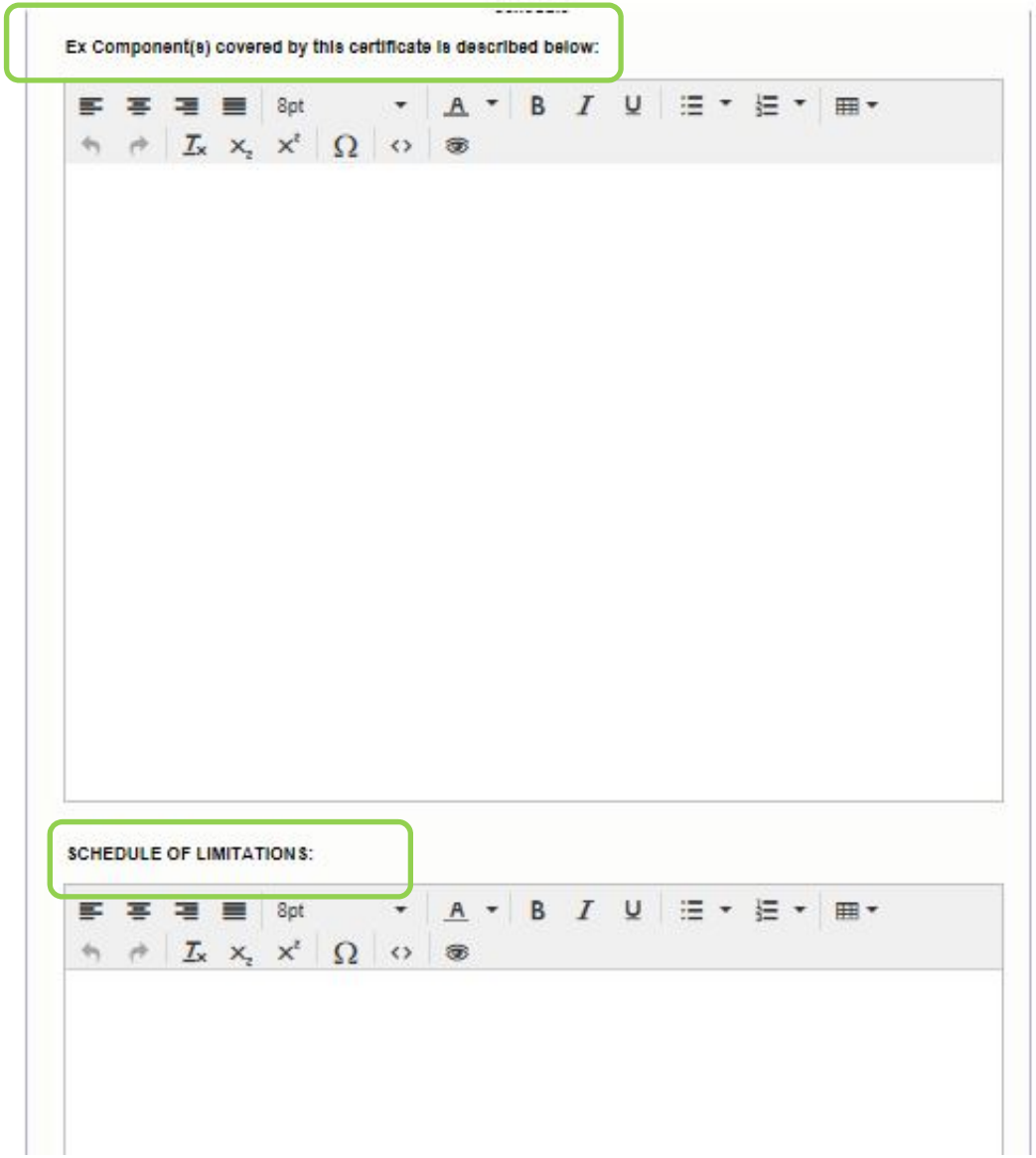

“User Friendliness” – NEW TOOLS

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- *New IT Platform for IEC IT*
  - *= foundation for improvements to IECEx On-line Certificate System*

New IT Platform for IEC – WHY ?

1. Current On-line Certificate Systems for all IEC Conformity Assessment Systems based on Lotus Notes

2. Need for improvements to IEC Standards Development systems (eg. IEC Collaboration Tools)

3. Need for improvements to IEC Standards Catalog (eg. support and enable machine readable Standards – more information available @
   http://www.iec.ch/about/brochures/pdf/about_iec/IEC_online_IT_tools_and_applications.pdf & @
   http://www.iec.ch/about/brochures/pdf/tools/IEC_Future_Collaborative_Standards_Development_and_Business_Platform_LR-en.pdf

4. External data storage, backup and security

New IT Platform for IEC >> IECEx

IECEx System chosen as first application of due to breadth, depth and complexity of IECEx Certificates & supporting reports

Framework, structure, formats and tools developed for IECEx will be basis for updates for other IEC CA Systems

Modern layout and appearance

Enhanced tools for ExCBs & public users

New IT Platform for IEC >> IECEx

NEXT STEPS

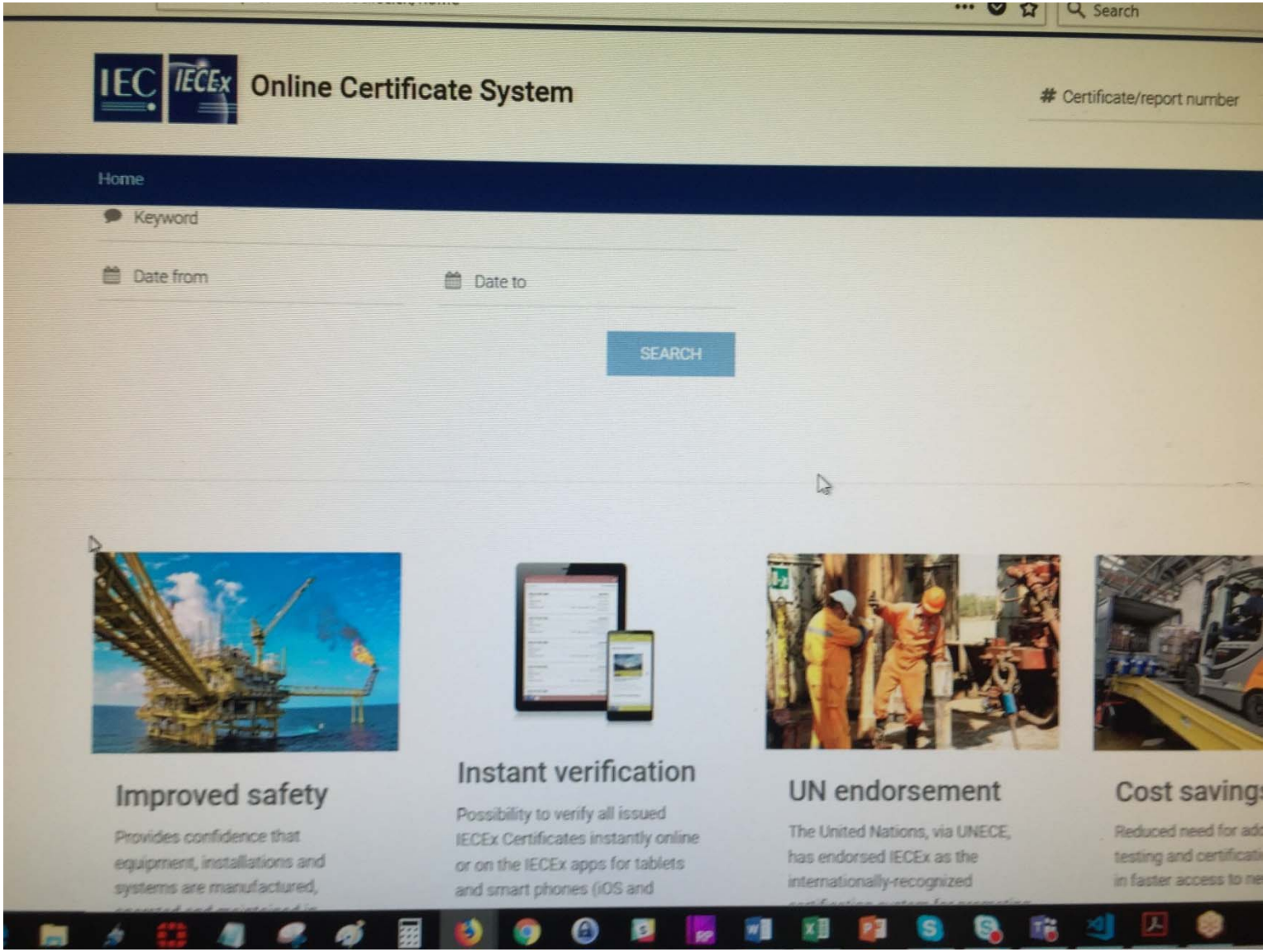
1. IEC IT make test system available ~ Q1 2019
2. IECEx Secretariat to establish Review & Test Team from system users in most active ExCBs
3. Detailed testing over the period of Q2 in 2019
4. Any additional data cleansing
5. Preparation of guidance documents (revisions of IECEx OD 011-x series) + training materials
6. Final ‘adjustments’ in Q3 in 2019
7. Anticipated ‘changeover’ in Q4 2019 (at earliest)

New IECEx On-line Certificate System

FEATURES

- Improved ExCB Profiles and access management
- Links between IEC CA Systems data
- Builds an image of the final Certificate as data is entered in required fields
- Automatic PDF creation and validation
- View Certificate “image” OR Details (as metadata)
- Includes ‘auto-complete’ of known content eg. manufacturer name
- Improved search tools
- Improved Export to Excel reporting capability
- Improvements to IECEx App to follow

New IECEx On-line Certificate System



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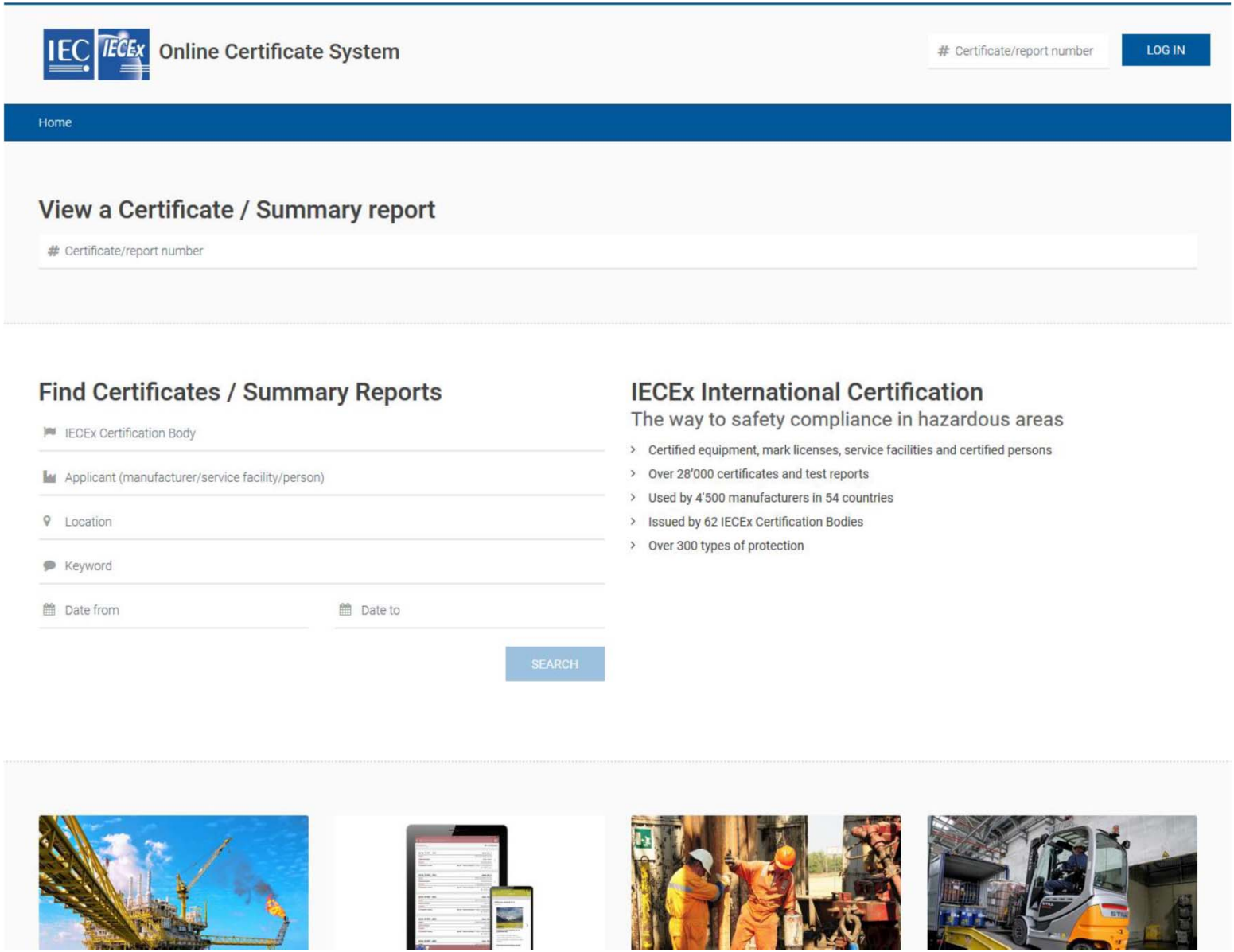

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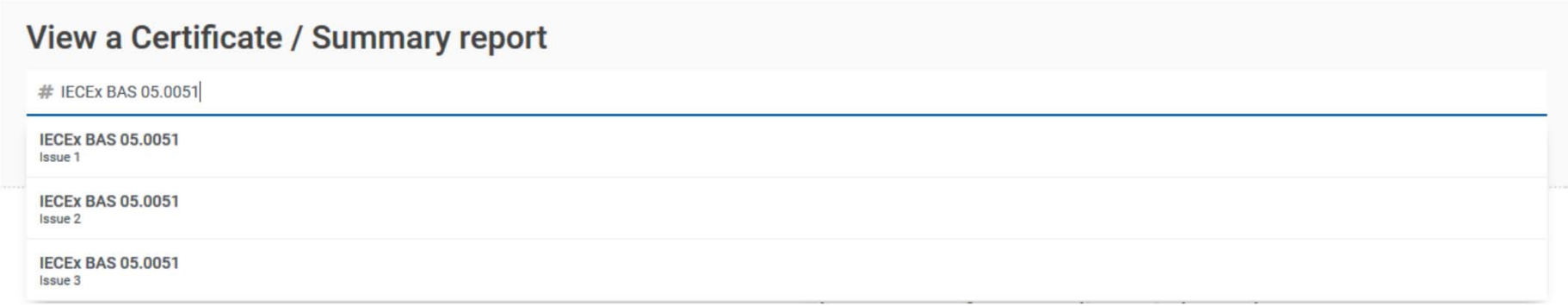
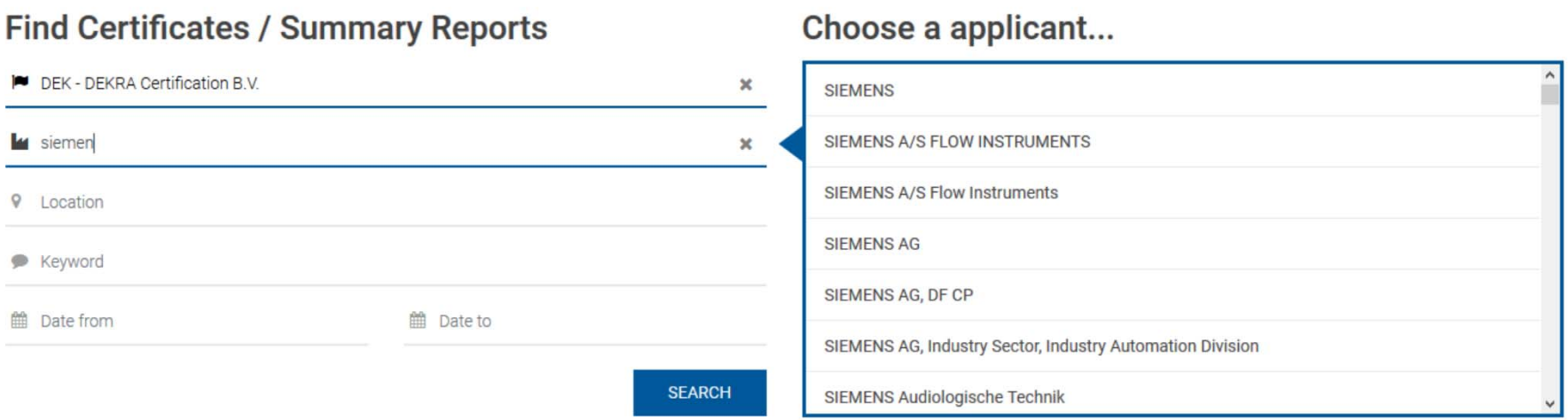


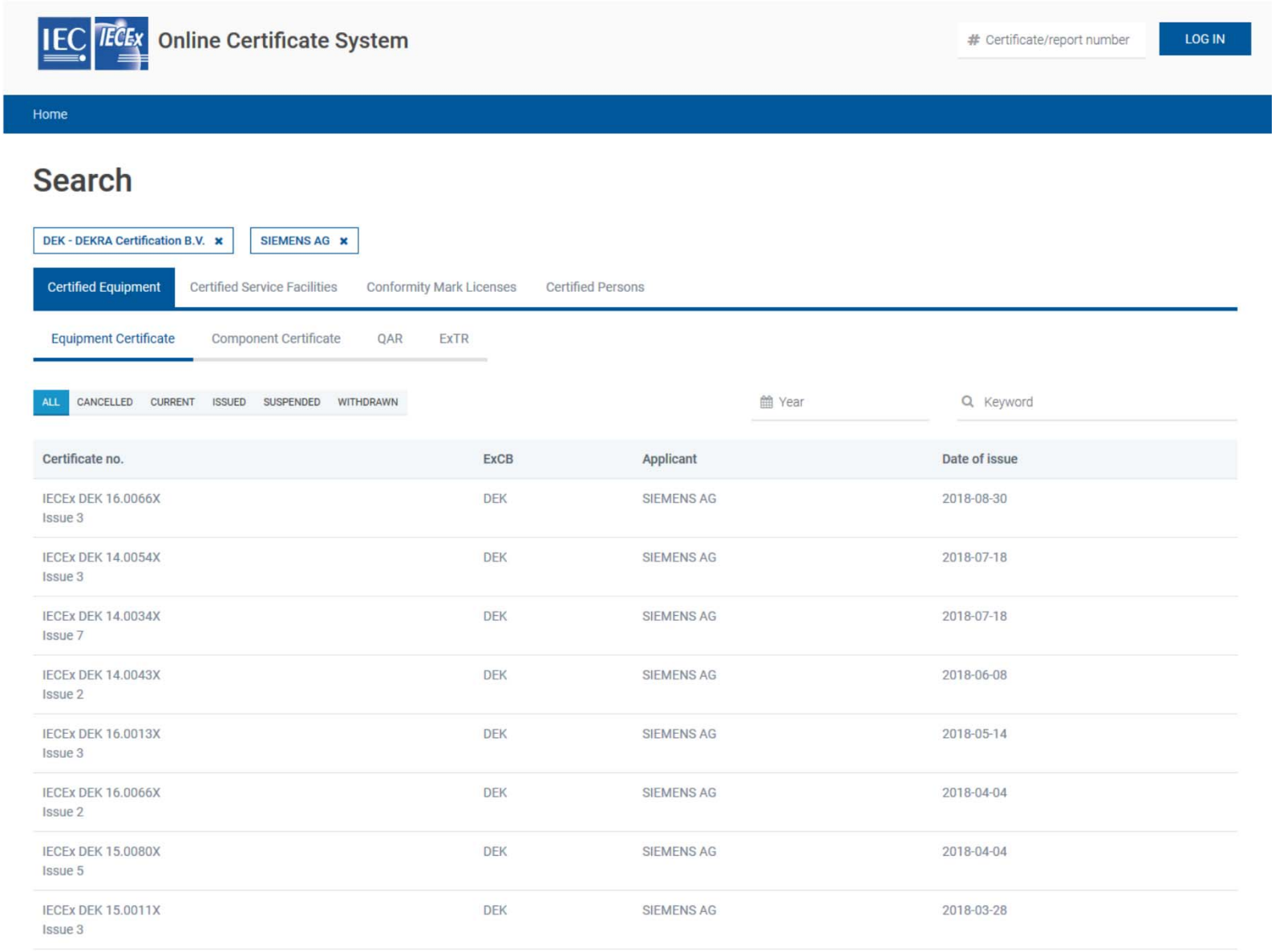
Quick access with auto-suggest

New IECEx On-line Certificate System



Global search (on all schemes)

New IECEx On-line Certificate System



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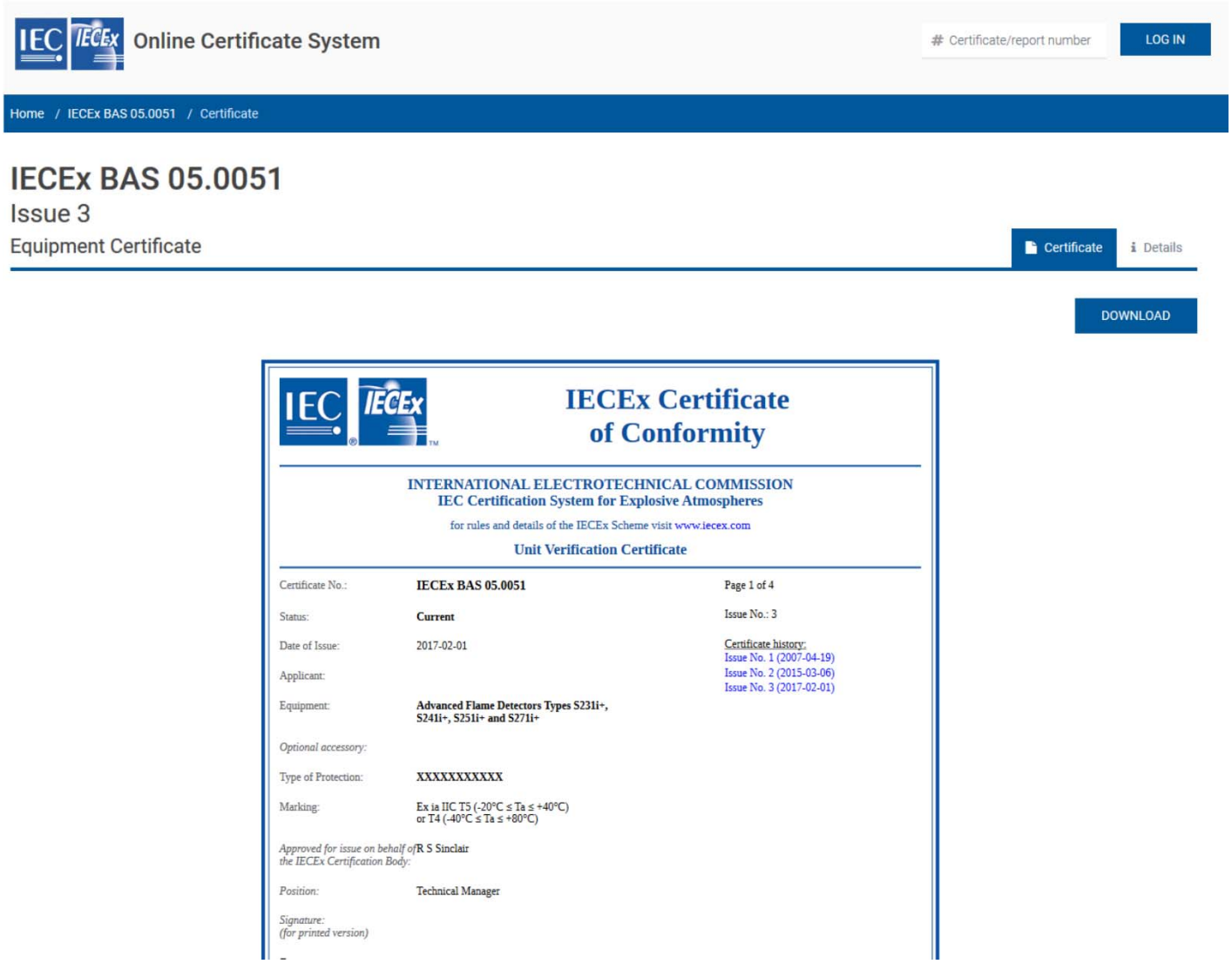
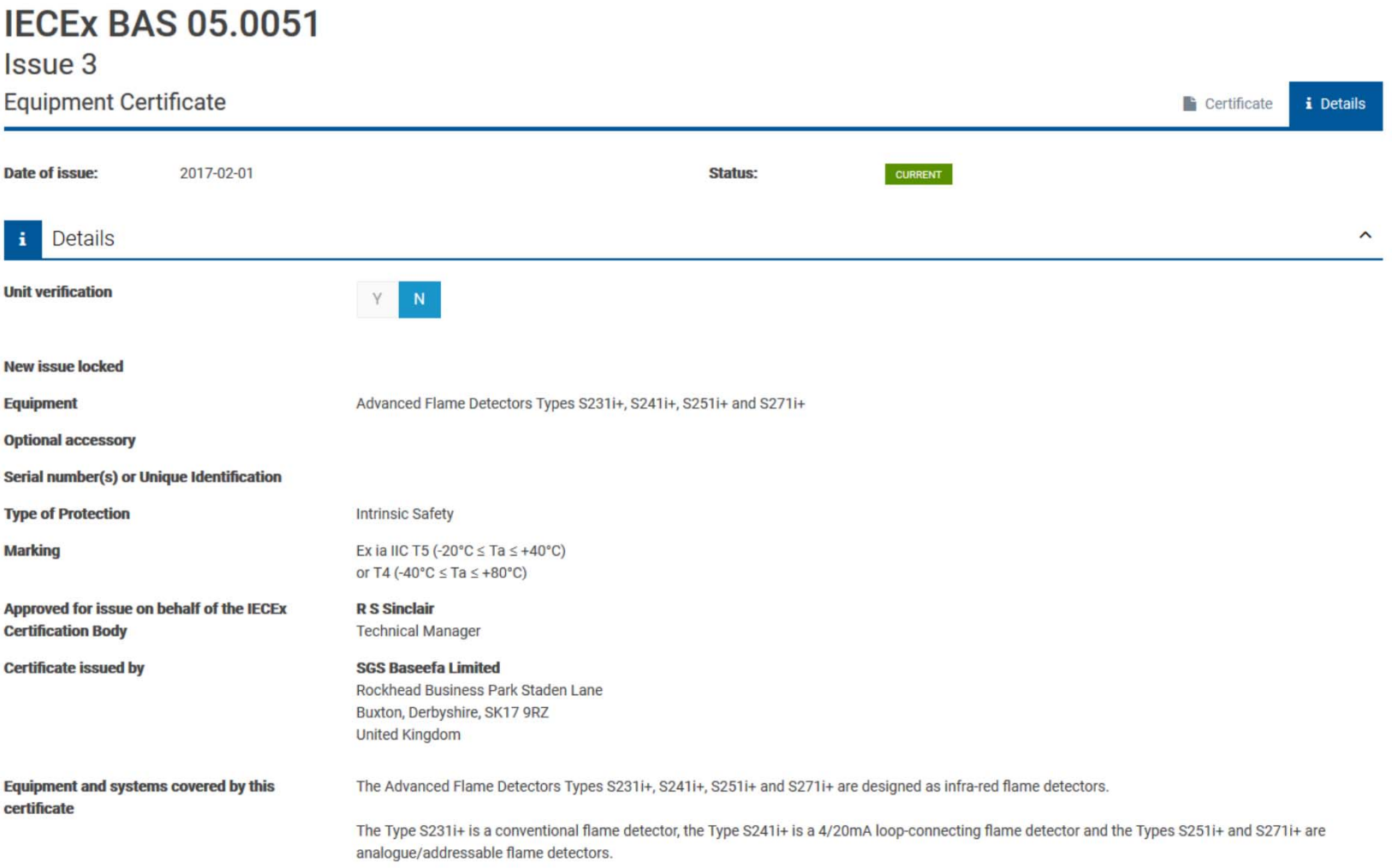


PDF Certificate or Summary report page

New IECEx On-line Certificate System



IECEx BAS 05.0051

Issue 3

Equipment Certificate

Certificate | Details

Date of issue: 2017-02-01 **Status:** CURRENT

Details

Unit verification Y N

New issue locked

Equipment Advanced Flame Detectors Types S231i+, S241i+, S251i+ and S271i+

Optional accessory

Serial number(s) or Unique Identification

Type of Protection Intrinsic Safety

Marking Ex ia IIC T5 (-20°C ≤ Ta ≤ +40°C)
or T4 (-40°C ≤ Ta ≤ +80°C)

Approved for issue on behalf of the IECEx Certification Body
R S Sinclair
Technical Manager

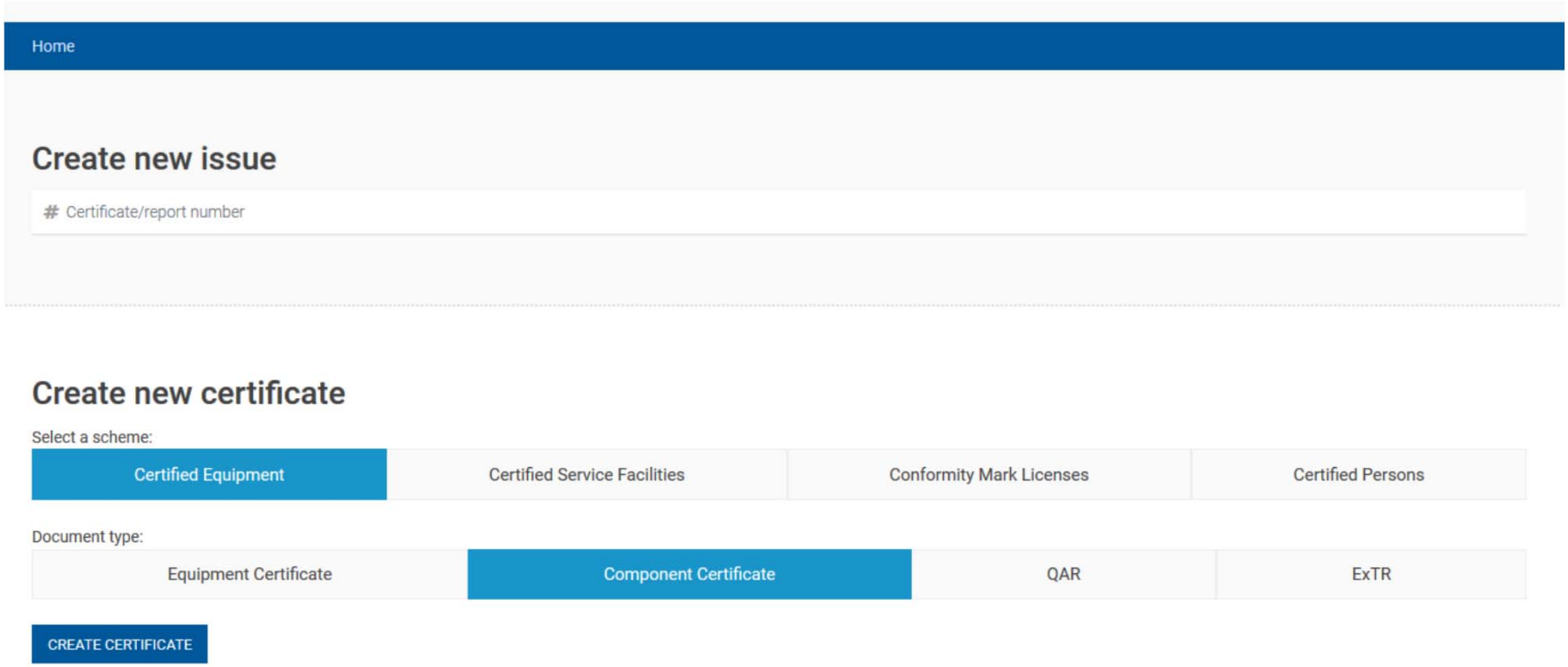
Certificate issued by
SGS Baseefa Limited
Rockhead Business Park Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

Equipment and systems covered by this certificate
The Advanced Flame Detectors Types S231i+, S241i+, S251i+ and S271i+ are designed as infra-red flame detectors.

The Type S231i+ is a conventional flame detector, the Type S241i+ is a 4/20mA loop-connecting flame detector and the Types S251i+ and S271i+ are analogue/addressable flame detectors.

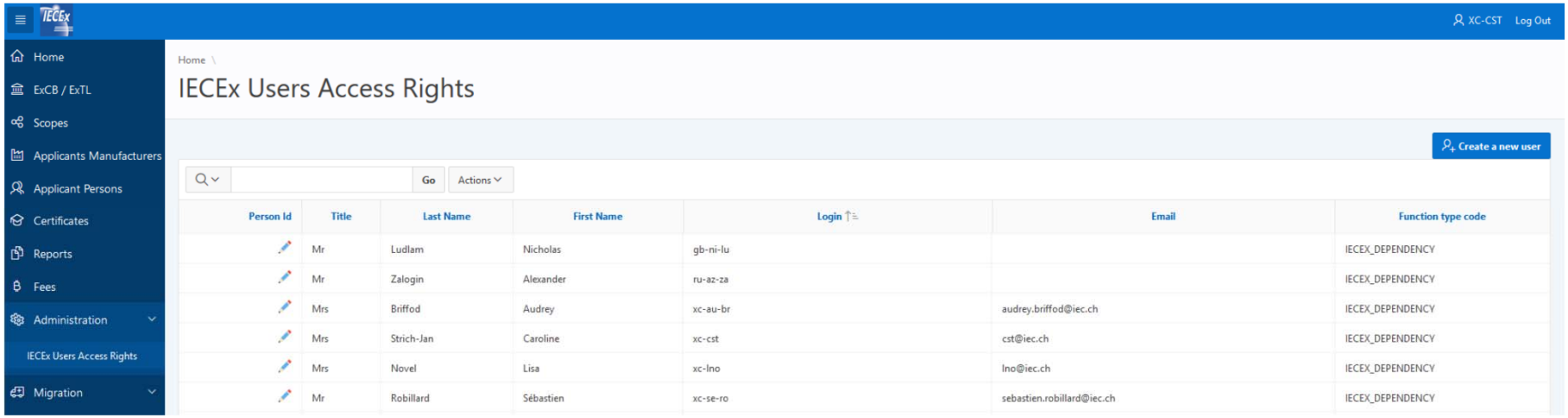
Certificate or Summary report details page (data, links, attachments…)

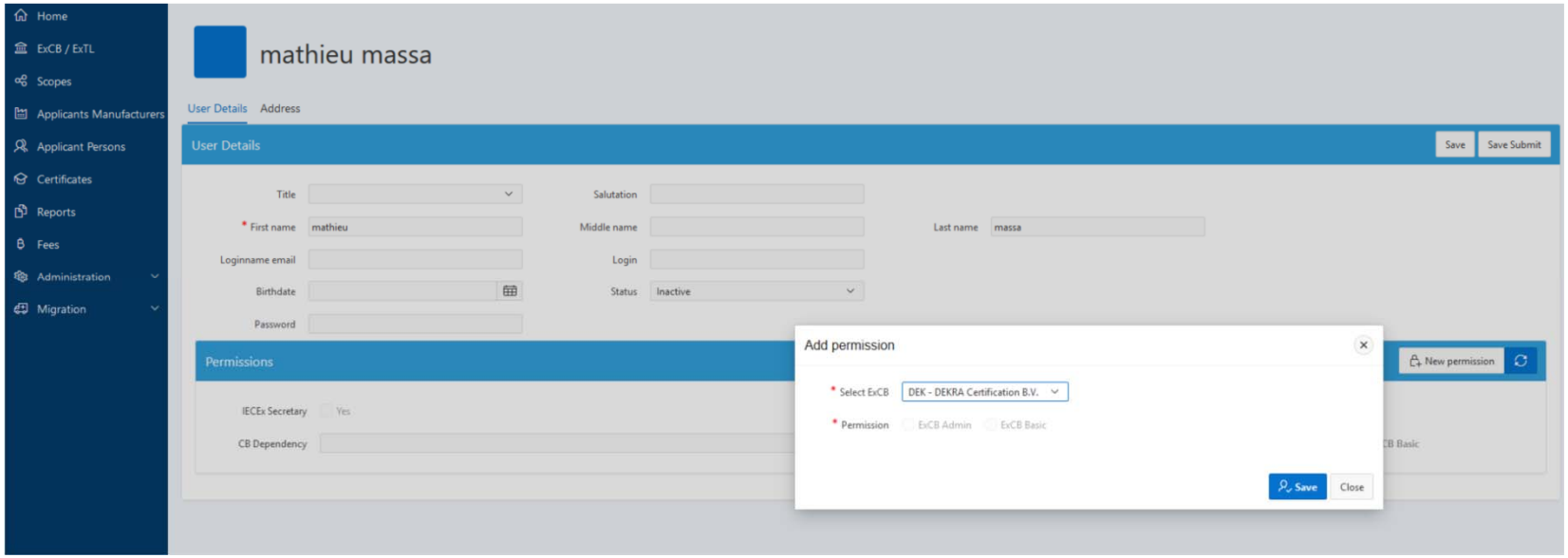
New IECEx On-line Certificate System



Page to create a new deliverable / or up-issue a Certificate or Summary report

New IECEx On-line Certificate System





THANK YOU

The IECEx Secretariat wishes to thank all ExCBs for their prompt assistance and cooperation to date and their understanding of the value in maintaining an up to date On-Line Certificate System

"Silly" questions are preferred to silly mistakes – please ask if you are not sure