Certification & Registration

- Update

Scott Wade, Technical & Certification Manager

28th June 2018

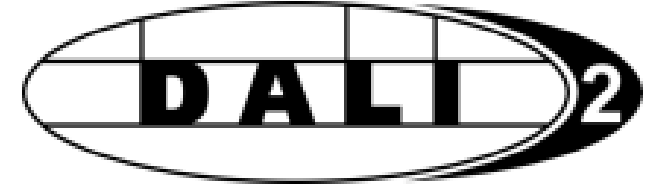Digital Illumination
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DiiA Certification & Registration webinar

- **Presenter:** Scott Wade, DiiA Technical & Certification Manager

- Presentation will last for approx. 40-45 minutes, followed by a Q&A session

- Ask a question → please use the "Q&A" box on your screen

- Technical issues → please use the "Chat" box

- After the live events, we will provide the following on our website:

  – PowerPoint presentation

  – A recording of the webinar

  – Written answers to all questions asked during the webinar(s)

- If you have further questions after the event, please click here for contact information

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Agenda

1. **Certification – now & next**

2. **IEC 62386 update**

3. **Registration – current status**

4. **Certification & registration**

   - Updated products & family products

   - Combination, multi-bus and OEM products

   - Colour control gear

5. **DALI testing** - test sequence software and plug-fests

6. **Website** – product submission updates, database download, public search

7. **FAQ**

8. **Q&A**

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1. Certification – current status

Products that can already be DALI-2 certified

- **Control gear**
  - LED drivers
  - Control gear that does not implement any part 2xx (e.g. converter)
  - Integrated bus power supplies not yet possible

- **Control devices**
  - Single-master application controllers
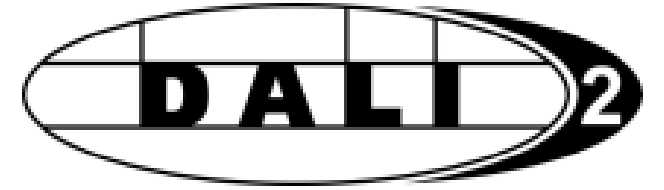 - Integrated bus power supplies allowed (with some additional manual testing)

- **Bus power supplies**
  - Requires some additional manual testing

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1. Certification – coming next

- **Products that can soon be certified**
  - **Control gear**
    - Including those with integrated bus power supplies
  - **Control devices**
    - Multi-master application controllers
  - **Bus power supplies**
    - Simplification of testing

- **In progress**
  - **Control gear:** Part 209 colour control gear, colour types T_c and xy
  - **Control devices:** Input devices. 301 (push-button), 303 (occupancy sensor) already in beta testing
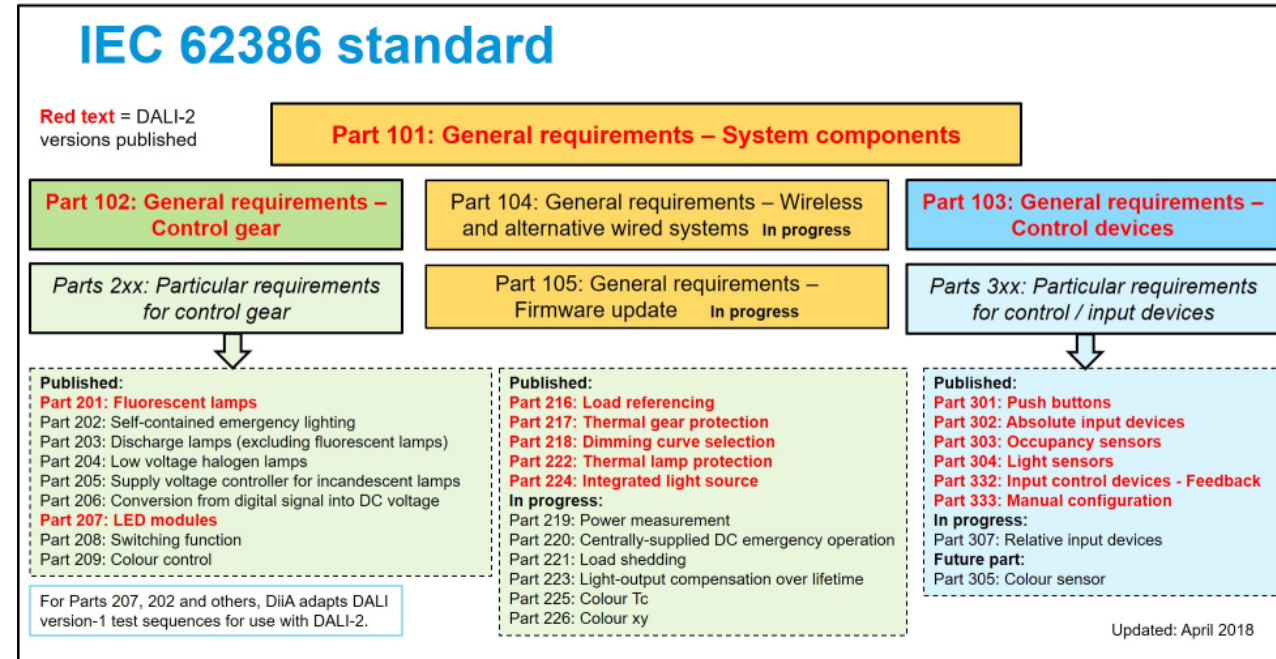
- **Later**
  - Part 202 (Emergency)

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2. IEC 62386 update

- **Parts 101, 102 and 103 – amendment 1**
  - Version 2.1
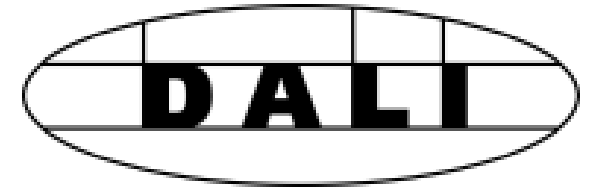 - (May'18 pre-release of official publication)

- **Recent publications:**
  - Part 207 – LED (Apr'18)
  - Part 216 – Load referencing (Apr'18)
  - Part 217 – Thermal gear protection (Mar'18)
  - Part 218 – Dimming curve selection (Mar'18)
  - Part 221 – Demand response/Load shedding (Jun'18)
  - Part 222 – Thermal lamp protection (Apr'18)
  - Part 224 – Non-replaceable light source (Mar'18)
  - Part 333 – Manual configuration feature (Apr'18)

- DiiA now has an **official liaison** agreement in place with IEC 62386 WG11

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3. Registration – current status

- **1st June 2018**
  - This was the deadline for registration of existing DALI version-1 products.
  - To continue using the DALI Trademark on products, it is necessary to register them.
  - There is no need to submit test results. For DALI version-1, members are confirming that the product has passed all tests, with allowed exceptions.
  - Keep the test results in-case we ask to see them.

- **New DALI version-1 products**
  - These can still be registered through your website account.
  - The end date for registration of DALI version-1 products, has not yet been decided.

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4. Certification & registration

- **See the *Product Submission Guide* for more details on the following:**

- **Updating Registered or Certified Products**
  - Re-testing may be required
  - Product information must be updated
  - For changes to the firmware or hardware version numbers, contact the T&C Manager
  - If the product part number or GTIN changes – a new submission is required

- **Family products**
  - At least one product in the family requires full testing – the "family reference product"
  - Other family members may require some testing
  - Each family member requires submitting for Certification or Registration

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4. Certification & registration

- **See the *Product Submission Guide* for details on the following:**

- **Combination and multi-bus products**
  - Multi-bus: Full testing is required on at least 2 of the DALI interfaces
  - Additional requirements for products with integrated, switchable DALI bus power supplies.
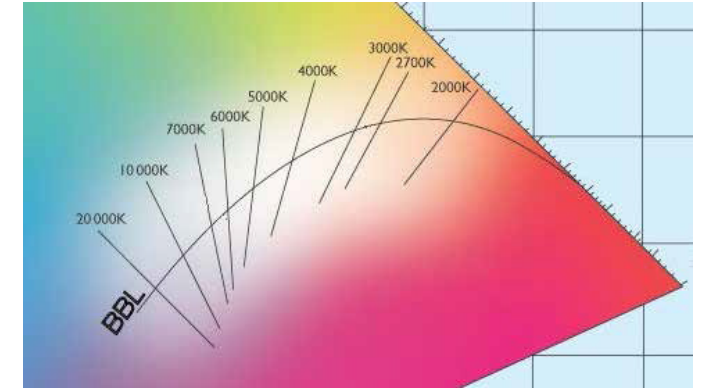
- **OEM/ODM products**
  - The company whose name or brand appears on a DALI/DALI-2 Trademarked product, must be a DiiA member.
  - That company is responsible for registering or certifying the product.
  - Testing may be carried out by that company, or the original manufacturer/designer, or a test-house.

OEM/ODM

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4. Certification & registration

- **Colour control gear** (part 209, DT8)

  - A temporary exemption is granted for the part 209 testing, allowing DALI version-1 Trademark use provided the product is registered and all other tests were complete successfully.

  - Once official part 209 tests are released, testing and certification will be necessary.

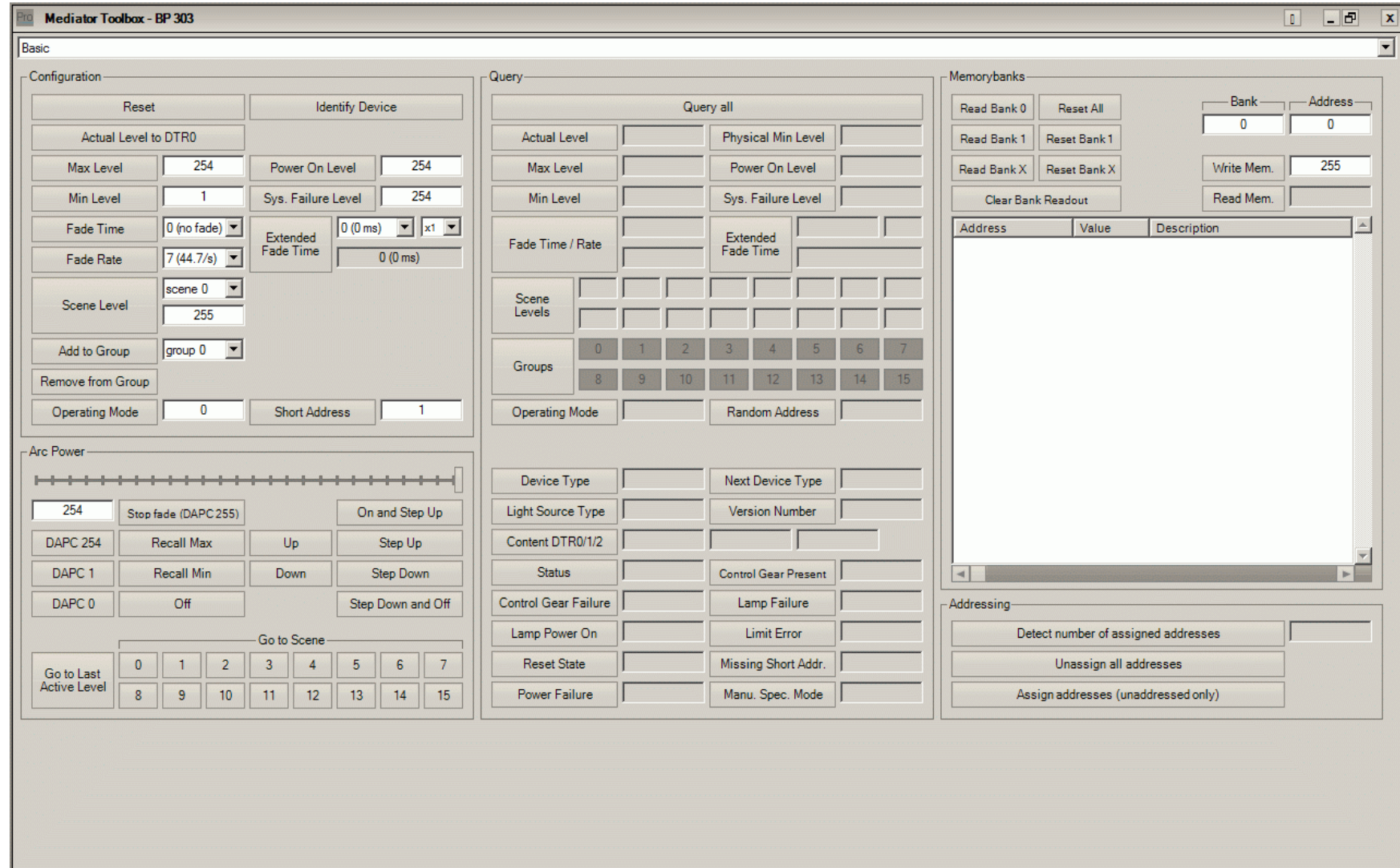 - See the *Trademark Guidelines for Members* for full requirements.

5. DALI testing

- Current release is **2.0.6.0 for DALI-2** and **1.1.5.0 for DALI version-1**

- Beta testing of a new version is almost complete
  - Updates to DALI-2 tests for parts 101-103

- The new version also includes an update of the ProbitLab and ProbitLab2 firmware.
  - The update resolves a problem seen by a small number of members, where Probit could perceive short glitches on the DALI bus.

- A DiiA "Guide to DALI testing" is in development.
  - This will include setting-up and use of the Probit system, hints, tips and an FAQ.

- Beta testing of additional tests for input devices and colour control gear is also in progress
  - The following screen images show the extensions for these beta tests.

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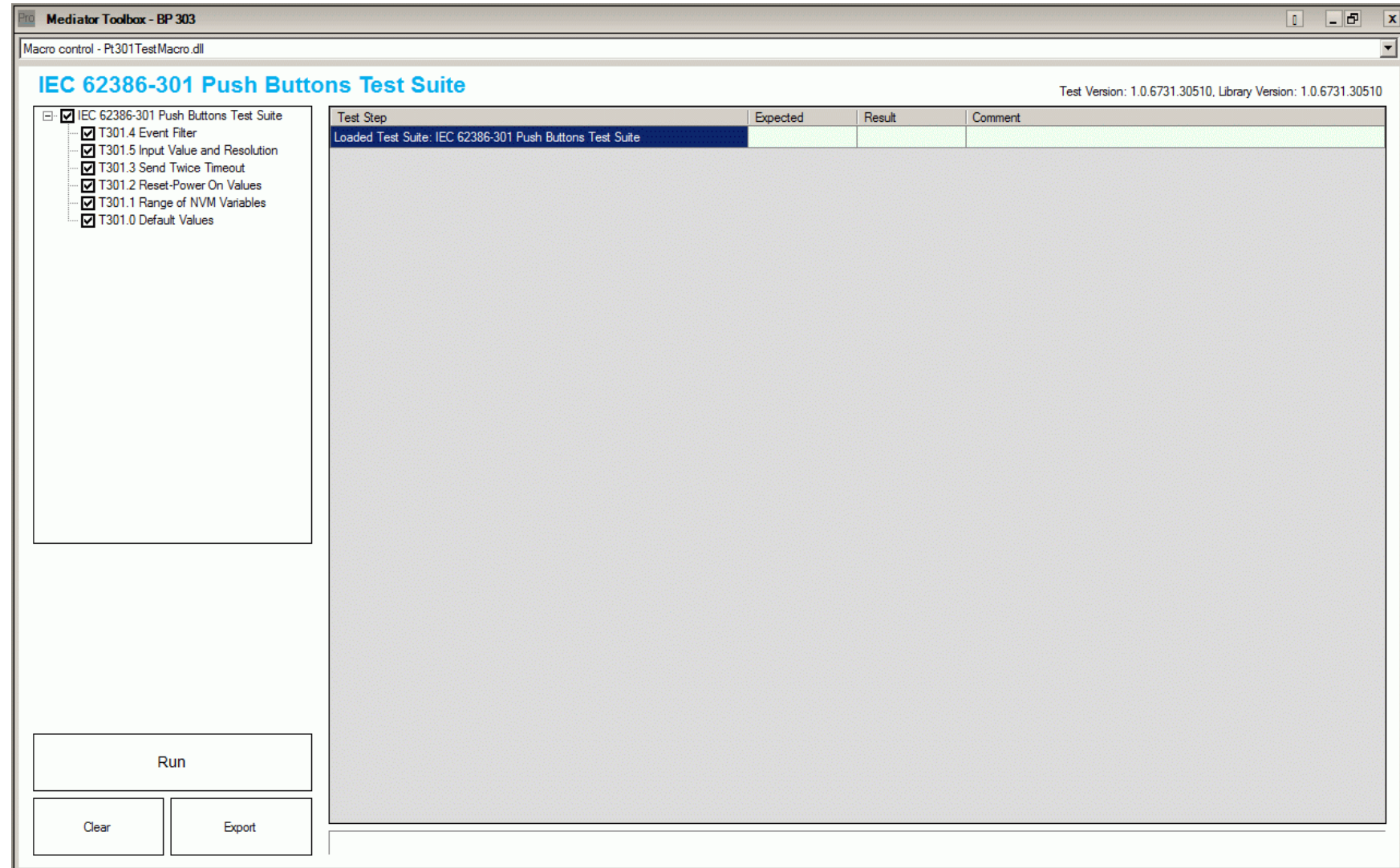
5. DALI testing – mediator toolbox

Mediator toolbox

- Already built-in to ProbitBench
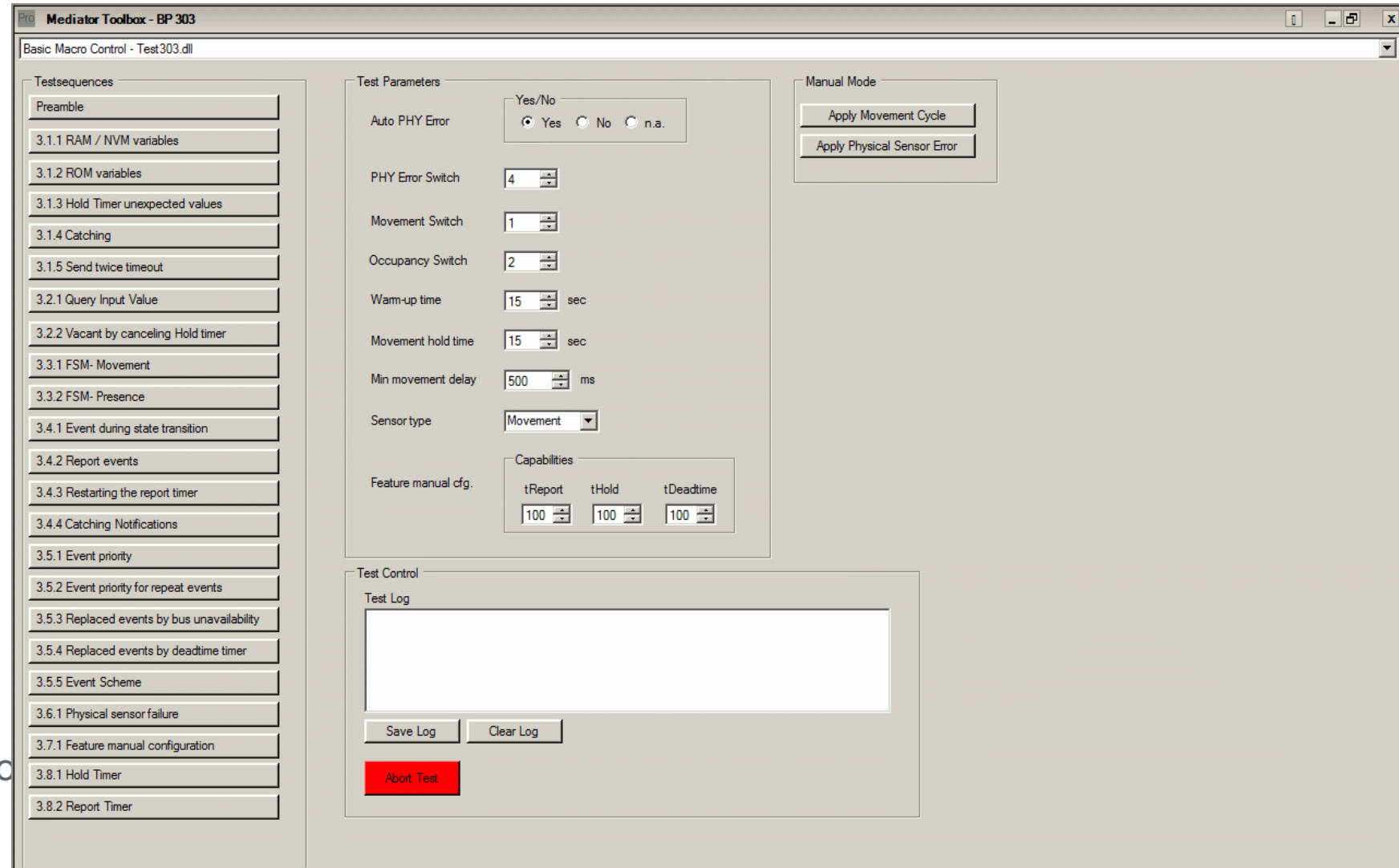
- Useful for control gear testing

5. DALI testing – 301 beta tests

- Courtesy of zencontrol

- Push-button input device

- Implemented using Lichtvision's macro interface for extensions to ProbitBench.

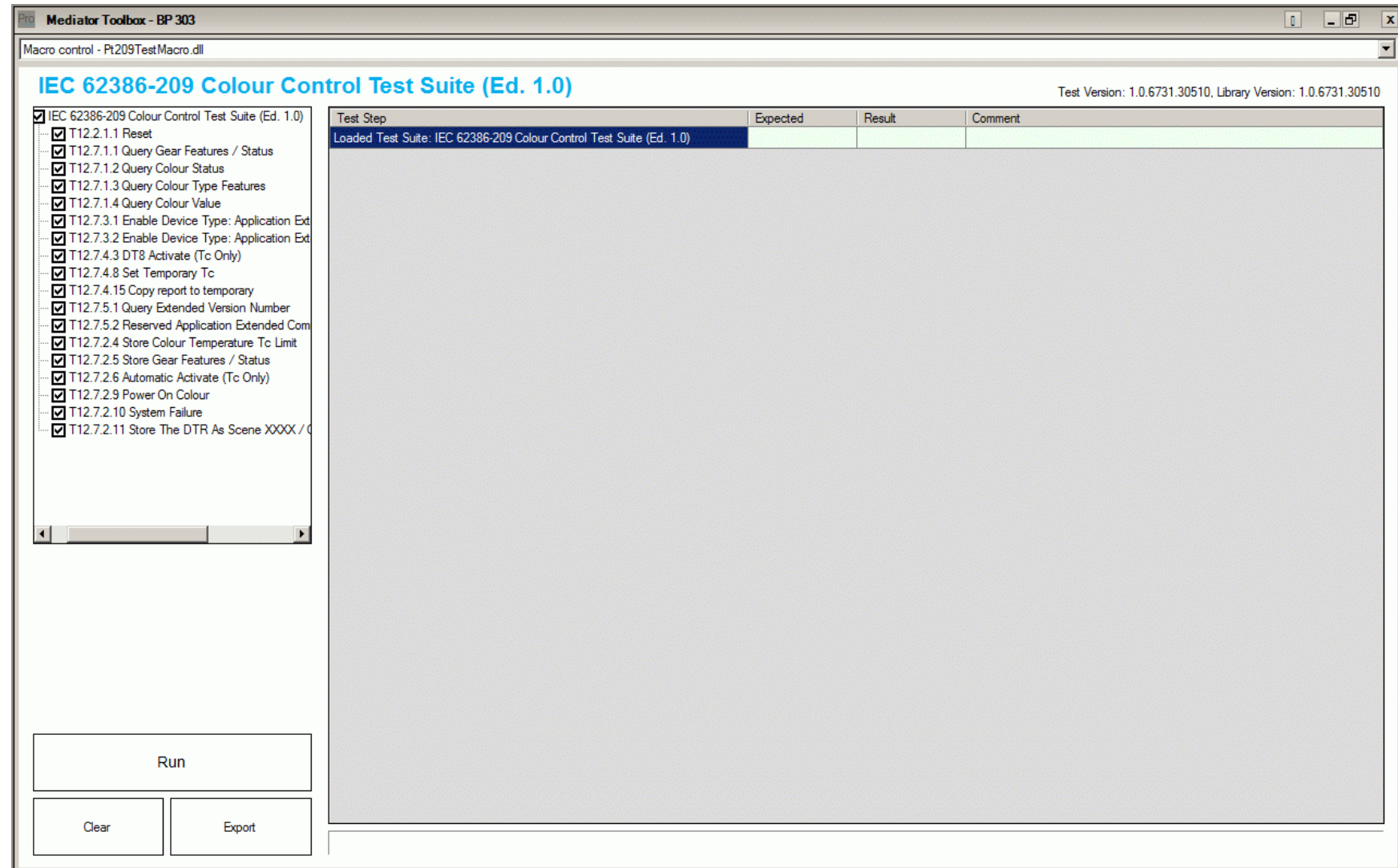Digital Illumination Interface Alliance

5. DALI testing – 303 beta tests

- Courtesy of Loytec

- Occupancy sensor input device

- 303 allows two types of occupancy sensor:
  - Movement sensors
  - Presence sensors

- Tests are currently for movement sensors only.

- Implemented using Lichtvision's macro interface for extensions to ProbitBench.
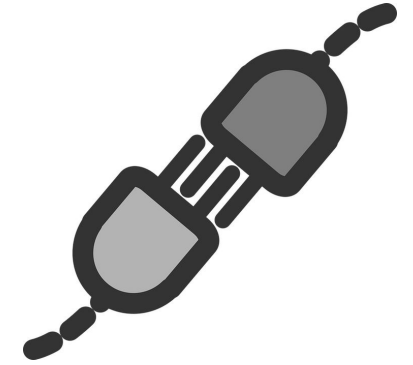
5. DALI testing – 209 beta tests

- Courtesy of zencontrol

- Colour control gear

- 209 (Device Type 8) allows 4 colour types:
  - colour temperature T_c
  - xy chromaticity
  - RGBWAF
  - primary N

- Tests are currently for T_c colour type only

- Implemented using Lichtvision's macro interface for extensions to ProbitBench.

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5. DALI testing – Plug-fests

- We hold **plug-fests for T&C Working Group members**
  - The fourth plug-fest is scheduled for Lüdenscheid in September 2018
  - We prioritise testing of products that don't yet have official released tests.
  - Current examples include colour control gear and input devices.

- **Plug-fest for all members**
  - Early discussions, but proposal is to hold an event in early 2019
  - Dates, location and other details are not yet decided

6. Website – product submission form

- New "Technical" information:
  - Bus current consumption (part 102/103, test 12.3.4)
  - Guaranteed supply current (bus power supply)
  - Maximum supply current (bus power supply)

Technical

Bus current consumption [mA]:	
Guaranteed supply current [mA]:	
Maximum supply current [mA]:	

- Product properties
  - Basic properties automatically determined from the part 102, 103, 2xx
  - Additional properties need to be manually selected
  - Examples:

Modify product properties for Platinum series II LED Driver 20W

This product has the following parts: 102, 207

- ☑ Control gear
  - ☑ LED
  - ☐ Bus powered
- ☐ Bus power supplies

[Save] [Cancel]

Modify product properties for Platinum series II LED Driver 20W

This product has the following parts: 102, 207, 209

- ☑ Control gear
  - ☑ LED
  - ☑ Colour control
    - ☐ Colour type xy coordinate
    - ☐ Colour type Tc
  - ☐ Bus powered
- ☐ Bus power supplies

[Save] [Cancel]

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6. Website – product submission form

- Application controller properties

  - Many options

  - Describe features that the application controller provides

  - Example: Support for Colour control (part 209, DT8)
    - Additional tick-boxes for the supported colour types

This product has the following parts: 101, 103

☑ Application controllers
  ☐ Supports DALI version-1 control gear
  ☐ Supports DALI-2 control gear
  ☐ More than one DALI bus supported
  ☐ Bus powered
  ☐ Support for event messages from input devices
  ☐ Support for other application controllers on the same bus
  ☐ Support for Push-buttons (part 301)
  ☐ Support for Switches/sliders (part 302)
  ☐ Support for Occupancy sensors (part 303)
  ☐ Support for Light sensors (part 304)
  ☐ Support for generic input devices
  ☐ Support for Self-contained emergency (part 202, DT1)
  ☐ Support for Discharge lamps (part 203, DT2)
  ☐ Support for Low voltage halogen (part 204, DT3) specific features
  ☐ Support for Incandescent dimmer (part 205, DT4) specific features
  ☐ Support for Conversion to DC (1-10V) interface (part 206, DT5) specific features
  ☐ Support for LED (part 207, DT6) specific features
  ☐ Support for Switching (part 208, DT7) specific features
  ☑ Support for Colour control (part 209, DT8)
      ☐ Supports colour type xy coordinate
      ☐ Supports colour type Tc
  ☐ Supports feedback from control gear (including lamp failure feedback)
  ☐ Provides support for addressing or grouping of control gear
  ☐ Support for features of connected control devices: Feedback (332) and/or Manual configuration (333)
☐ Input devices
☐ Bus power supplies

Save   Cancel

6. Website – database download (coming soon)

- **Download of public content** of the product database
  - For Regular and Associate members
  - XLSX format
  - System software can read the GTIN from the memory bank of each discovered product
  - Together with the XLSX data, this can allow automatic identification of product information such as: brand, product name, part number and other public information

- **Download of member's own product information**
  - Also XLSX format
  - Contains all products belonging to the member
  - Includes products not yet Certified or Registered
  - Includes information not available to the public

Certified and Registered Products

Certified products have successfully completed the DiiA certification process for **DALI-2**.

Registered products are DALI version 1 products that have been successfully tested by the member or a test-house.

Product Search

-- select brand --

Part number

Product name

☐ Include registered DALI version-1 & version-0 products

☐ Include discontinued products

Product ID

GTIN

☐ Control gear
☐ Application controllers
☐ Input devices
☐ Bus power supplies

Search

Download CSV

Showing products 1-7

7 results total

Brand Name	Product Name	DALI Parts	Registration Date	DALI 2 Certified
Osram	OTi		Sep 29, 2017	Yes
TM brand2	Tim's test product	102, 207	Sep 29, 2017	Yes
Dynalite	DDBC120-DALI	102, 207	Jul 3, 2017	Yes
Osram	test1		Jun 28, 2017	Yes
TM brand1	LED170626	102, 207	Jun 26, 2017	Yes
TM brand1	ProdName4	102, 207	Jun 23, 2017	Yes
TM brand2	My DALI-2 Product Name 001	102, 207	-	Yes

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6. Website – product search (public)

- Product search now allows filtering by specific properties.

- Each selected property will narrow the search results.

- The example shown will search for only application controllers that also have an integrated bus power supply.

- It is important when products are submitted for Certification or Registration that all of the features supported by the product are correctly selected.

- Search by GTIN will be added soon.

☐ Control gear
☑ Application controllers
  ☐ Supports DALI version-1 control gear
  ☐ Supports DALI-2 control gear
  ☐ More than one DALI bus supported
  ☐ Bus powered
  ☐ Support for event messages from input devices
  ☐ Support for other application controllers on the same bus
  ☐ Support for Push-buttons (part 301)
  ☐ Support for Switches/sliders (part 302)
  ☐ Support for Occupancy sensors (part 303)
  ☐ Support for Light sensors (part 304)
  ☐ Support for generic input devices
  ☐ Support for Self-contained emergency (part 202, DT1)
  ☐ Support for Discharge lamps (part 203, DT2)
  ☐ Support for Low voltage halogen (part 204, DT3) specific features
  ☐ Support for Incandescent dimmer (part 205, DT4) specific features
  ☐ Support for Conversion to DC (1-10V) interface (part 206, DT5) specific features
  ☐ Support for LED (part 207, DT6) specific features
  ☐ Support for Switching (part 208, DT7) specific features
  ☐ Support for Colour control (part 209, DT8)
  ☐ Supports feedback from control gear (including lamp failure feedback)
  ☐ Provides support for addressing or grouping of control gear
  ☐ Support for features of connected control devices: Feedback (332) and/or Manual configuration (333)
☐ Input devices
☑ Bus power supplies
  ☐ Guaranteed supply current > 100 mA
  ☐ Maximum supply current < 250 mA

[Search]

7. FAQ

- **Can we still register DALI version-1 products?**
  - Yes! The deadline of 1st June 2018 was for existing DALI version-1 products, but if any have not yet been registered, or new DALI version-1 products are developed, these need to be registered. The end date for registration of DALI version-1 products, has not yet been decided.

- **Can the DALI logo be used on products designed for DALI-2?**
  - Yes, on control gear, but the product **must be submitted for certification** as with all DALI-2 products.

- **"Do we need to buy a ProbitLab 2 for DALI-2 testing?"**
  - For control gear that does not have an integrated bus power supply, the ProbitLab 1 is fine.
  - *For control devices, or bus power supplies or any product with an integrated bus power supply, ProbitLab 2 is necessary.*

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7. FAQ

- **I can't submit a product due to a problem with the GTIN.**
  - Ensure the GTIN is valid, owned by your company, and has not already been used for another product submission.

- **We make a product for another DiiA member, how do we certify it with their brand?**
  - The member whose brand is shown on the product must submit it for certification through their own DiiA account. However, the test results from the original manufacturer may be used.

- **We make products that are identical except for the brand. Do these need unique GTINs?**
  - Yes, each product needs a unique GTIN, whether the brands belong to the same member, or to a different member. Testing can be much reduced – see the *Product Submission Guide*.

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7. FAQ

- **We have updated the firmware/hardware in our product – do we need to re-test?**
  - You must determine if there are any tests that are at risk due to the changes, and re-run these tests. Once successful, the firmware/hardware versions in your product entry can be updated. See the *Product Submission Guide*. Contact the Technical & Certification Manager if you need clarification.

- **DALI version-1: "Is the original DALI logo allowed on control devices such as sensors?"**
  - No – these must pass the DALI-2 tests and be certified. There are no DALI version-1 tests for control devices.

- **What is "Community registration"**
  - For luminaire manufacturers using DALI or DALI-2 marked products from DiiA members
  - Not suitable for manufacturers of control gear, control devices or bus power supplies – they must become a Regular or Associate member.

8. Q&A

We are now open for questions!

If you have **further questions**, please contact:

- **Technical**, test or certification questions:
  - DiiA Technical & Certification Manager: Technical@Digitalilluminationinterface.org
- **Marketing**:
  - DiiA Marketing Manager: Marcom@Digitalilluminationinterface.org
- **Membership** or general questions:
  - DiiA General Manager: GM@Digitalilluminationinterface.org

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