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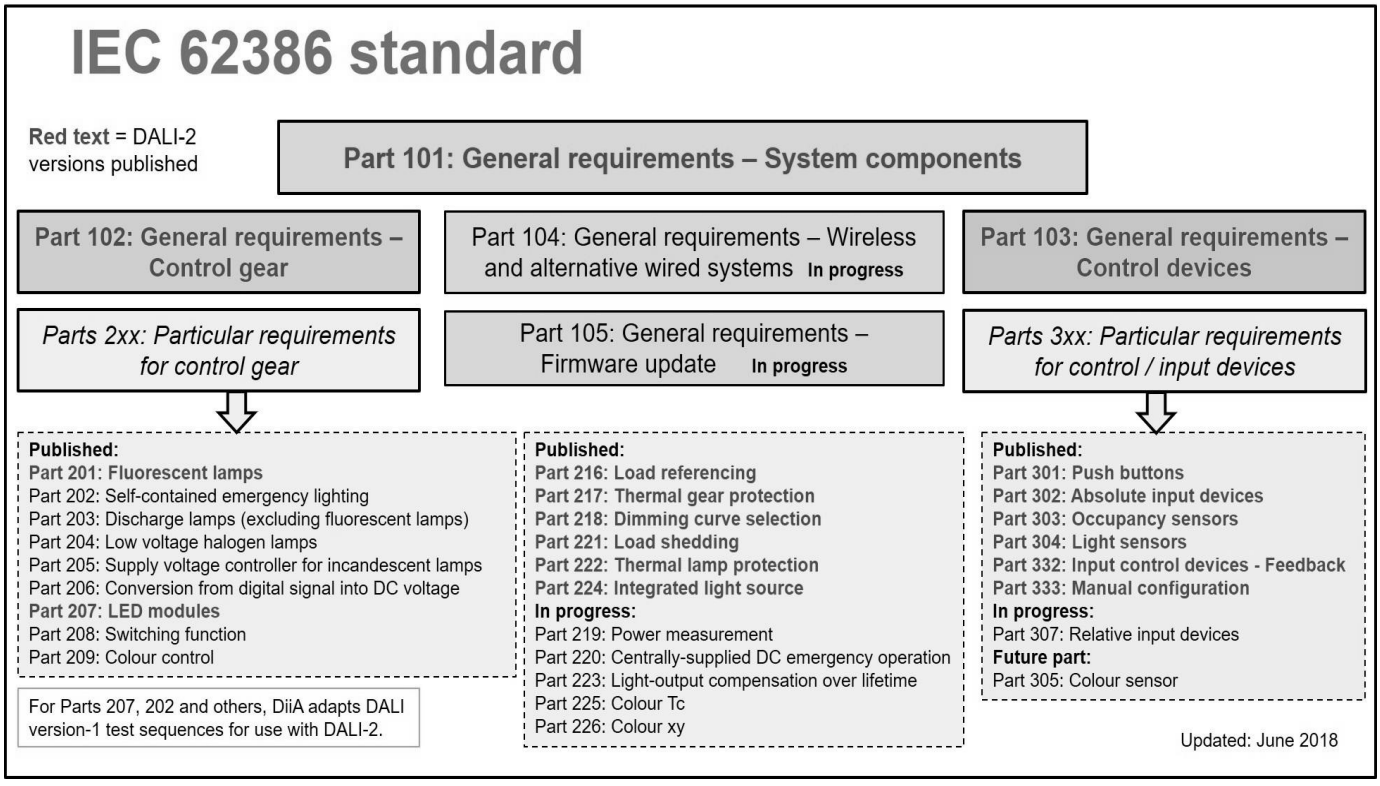
IEC 62386 - the international standard for DALI technology

Overview of IEC 62386

DiiA specifications

Status of different Parts of IEC 62386



Overview of IEC 62386

Role of IEC: IEC 62386, the international DALI standard, is published in multiple Parts by the International Electrotechnical Commission (IEC). Published Parts of IEC 62386 can be purchased from the IEC. >> IEC website.

The table below shows the status of different Parts of IEC 62386. Parts labelled as "in progress" are being developed by the IEC working group (WG11 of TC34) that is responsible for writing and maintaining IEC 62386.

What is DALI-2? DALI-2 is based on version 2 of IEC 62386, which includes control devices (Part 103 and Parts 3xx) for the first time. All new Parts of the standard will be published as DALI-2 versions. Some (but not all) older Parts will be updated to DALI-2.

What is DiiA's role? DiiA develops testing procedures, known as test sequences, which enable companies to show compliance of their products with different Parts of the DALI-2 standard. The current status of test sequences is shown in the table below.

Our Timeline shows the planned priority for test-sequence development. >> Timeline

Creation of DALI-2 test sequences relies on input from DiiA members, and is influenced by member priorities and market demand. Some Parts of DALI version-1 are unlikely to be included in the DALI-2 certification program.

DiiA specifications

DiiA recently finalized the following specifications, which are NOT currently incorporated into IEC 62386.

DALI Part 250 – Integrated Bus Power Supply	DALI Part 251 – Memory Bank 1 Extension
AUX Power Supply	DALI Part 252 – Energy Reporting
	DALI Part 253 – Diagnostics & Maintenance

>> More on DiiA specifications

Status of IEC 62386 Parts

The following Table was last updated in October 2018.

GENERAL REQUIREMENTS					
IEC 62386 part	**Description**	**Status of published standard**	**Available for DALI version-1 testing?**	**Available for DALI-2 certification?**	**Notes**
101	System	**DALI-2** Amendment published May 2018	✔	✔	Updated test sequences released Aug 2018. >> News DALI-2 certification possible for standalone bus power supplies, as well as bus power supplies integrated into control gear or control devices.
102	Control gear	**DALI-2** Amendment published September 2018	✔	✔	Updated test sequences released Aug 2018. >> News DALI-2 certification possible for LED drivers (with Part 207).
103	Control devices	**DALI-2** Amendment published	n/a	✔	Updated test sequences released Aug 2018. >> News

		September 2018			DALI-2 certification possible for both single-master and multi-master application controllers.
104	Wireless and alternative wired system	In progress	n/a	-	
105	Firmware update	In progress	n/a	-	

PARTS 2XX - SPECIFIC REQUIREMENTS FOR CONTROL GEAR

IEC 62386 part	Description	Status of published standard	Available for DALI version-1 testing?	Available for DALI-2 certification?	Notes
201	Fluorescent lamps	**DALI-2**	✔	-	
202	Self-contained emergency	DALI version-1	✔	-	To be adapted for DALI-2, based on DALI version-1 tests
203	HID lamps	DALI version-1	✔	-	
204	Low voltage halogen lamps	DALI version-1	✔	-	
205	Incandescent lamp dimmer	DALI version-1	✔	-	
206	Conversion to DC (0/1-10 V)	DALI version-1	✔	-	
207	LED modules	**DALI-2** (see News)	✔	✔	Awaiting IEC 62386 publication of the relevant 2xx functions to allow replacement of part 207 Ed1
208	Switching	DALI version-1	✔	-	
209	Colour control	DALI version-1	No	-	DALI-2 test sequences in progress - see Timeline

More control-gear functions (Parts 2xx)

PARTS 3XX - SPECIFIC REQUIREMENTS FOR CONTROL / INPUT DEVICES

All Parts 3xx are, or will be, published as DALI-2 versions. These Parts were not included in DALI version-1.

IEC 62386 part	Description	Status of published standard	Available for DALI version-1 testing?	Available for DALI-2 certification?	Notes
301	Push buttons	**DALI-2**	n/a	-	DALI-2 test sequences in progress - see Timeline

302	Absolute input devices	**DALI-2**	n/a	-	DALI-2 test sequences in progress - see Timeline
303	Occupancy sensors	**DALI-2**	n/a	-	DALI-2 test sequences in progress - see Timeline
304	Light sensors	**DALI-2**	n/a	-	DALI-2 test sequences in progress - see Timeline
305	Colour sensor	Future part	n/a	-	
307	Relative input devices	In progress	n/a	-	
332	Input control devices - Feedback	**DALI-2**	n/a	-	
333	Manual Configuration	**DALI-2**	n/a	-	

PARTS 2XX - CONTROL GEAR FUNCTIONS

All Parts below are, or will be, published as DALI-2 versions. These Parts were not included in DALI version-1.

IEC 62386 part	Description	Status of published standard	Available for DALI version-1 testing?	Available for DALI-2 certification?	Notes
216	Load referencing	**DALI-2**	n/a	-	
217	Thermal gear protection	**DALI-2**	n/a	-	
218	Dimming curve selection	**DALI-2**	n/a	-	
219	Power measurement	In progress	n/a	-	
220	Centrally-supplied DC emergency operation	In progress	n/a	-	
221	Load Shedding	**DALI-2**	n/a	-	
222	Thermal lamp protection	**DALI-2**	n/a	-	
223	Light-output compensation over lifetime	In progress	n/a	-	
224	Integrated light source	**DALI-2**	n/a	-	
225	Colour Tc	In progress	n/a	-	
226	Colour xy	In progress	n/a	-	

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