



International
Electrotechnical
Commission

IEC TC47 Semiconductors Devices Landscape

Werner Berns
Int. Standardization – Texas Instruments

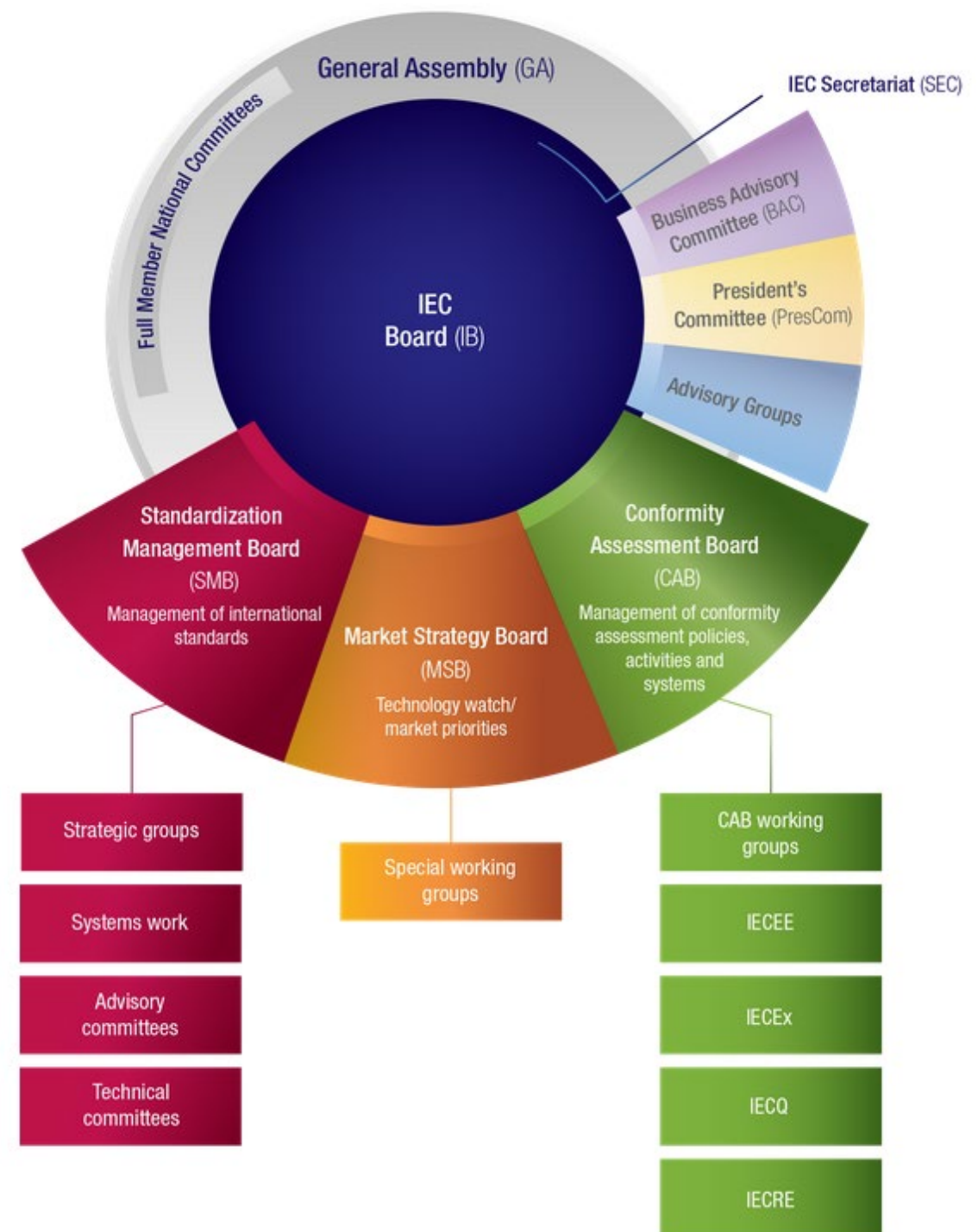
Trusted Chips
2nd Dec 2022
Brussels, Belgium

IEC Structure

Core principles:

- Transparency & Accountability
- Performance management
- Diversity

<https://www.iec.ch/management-structure>



IEC in Figures (2022-10)

World's leading provider of International Standards and Conformity Assessment Systems in Electrotechnology

174 Countries

62 Full Members

26 Associate Members

86 Affiliates

214 Committees

(111 TCs, 103 SCs, 11 TC 100
TAs, 4 PCs, 6 ACs, 24 JTC1 SCs,
7 SyCs)

10 000+ Publications

4 Conformity Assessment Systems

20 000+ Experts

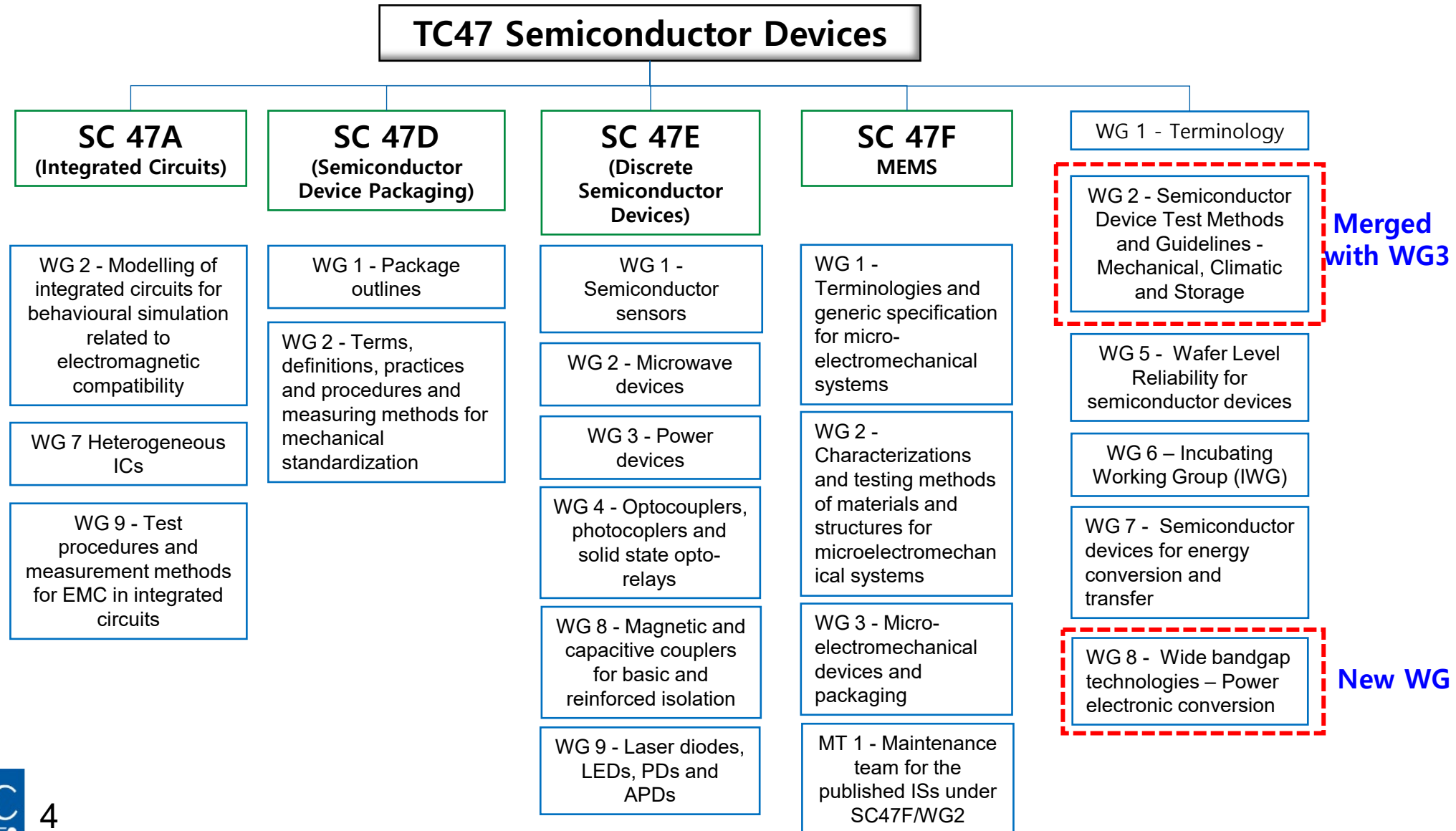


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<https://www.iec.ch/what-we-do/facts-figures>

IEC TC47 Structure



IEC TC47 Liaisons

Internal IEC Liaison

- TC 56 Dependability (Liaison officer: Mr. Nicholas E.F. Lycoudes)
- TC 91 Electronics assembly technology (Liaison officer: Mr. Jim Lynch)
- TC 101 Electrostatics (Liaison officer: Mr. Jim Lynch)
- TC 107 Process management for avionics (Liaison officer: Mr. Nicholas E.F. Lycoudes)
- TC 110 Electronic display devices (Liaison officer: Mr. Sung Hoon Choa)
- TC 111 Environmental standardization for electrical and electronic products and systems (Liaison officer: Mr. Stephen Tisdale)
- TC 113 Nanotechnology for electrotechnical products and systems
- TC 119 Printed Electronics (Liaison officer: Mr. Hojun Ryu)
- TC124 Wearable Electronic Devices and Technologies (Liaison officer: Mr. Deok-kee Kim)

Liaison with ISO

- ISO TC22/SC31 Data communication (Liaison officer: Mr. Werner Berns)

Liaison C

- EIA: WG 1, WG 2, WG 3 and WG 5 (Liaison officer: Mr. Nicholas E.F. Lycoudes)

IEC SC47E Liaisons

Internal IEC Liaison

- TC 34 Lighting (Liaison officers: Mr. Andreas Scholtz, Mr. Alexander Wilm)
- SC 23A Electric light sources (Liaison officer: Mr. Naokage Kishimoto)
- TC 49 Piezoelectric, dielectric and electrostatic devices
- TC 91 Electronics assembly technology
- TC 108 Safety of electronic equipment within the field of audio/video (Liaison officer: Mr. Hojun Ryu)

Liaison with ISO

- ISO TC172 SC9 Laser and electro-optical system

IEC TC47 P/O Member Countries

- TC47: 16 Participating and 19 Observing members (2022-11-03)

Requirements to get an approval for NWIP (new work item)

- ≥ 4 experts nominated by different NCs (criteria for 16 P-members)
- $\geq 66.7\%$ of voting P-members vote in favour

Country	Country Code	P/O Status
Austria	AT	P-Member
Belgium	BE	P-Member
Switzerland	CH	P-Member
China	CN	P-Member
Germany	DE	P-Member
France	FR	P-Member
United Kingdom	GB	P-Member
Ireland	IE	P-Member
Israel	IL	P-Member
Italy	IT	P-Member
Japan	JP	P-Member
Korea, Republic of	KR	P-Member
Pakistan	PK	P-Member
Russian Federation	RU	P-Member
Singapore	SG	P-Member
United States of America	US	P-Member

Country	Country Code	P/O Status
Bulgaria	BG	O-Member
Belarus	BY	O-Member
Czech Republic	CZ	O-Member
Denmark	DK	O-Member
Spain	ES	O-Member
Finland	FI	O-Member
Hungary	HU	O-Member
India	IN	O-Member
Iran	IR	O-Member
Netherlands	NL	O-Member
Norway	NO	O-Member
Philippines, Rep. of the	PH	O-Member
Poland	PL	O-Member
Romania	RO	O-Member
Serbia	RS	O-Member
Sweden	SE	O-Member
Thailand	TH	O-Member
Turkey	TR	O-Member
Ukraine	UA	O-Member

New Ad-Hoc WG in TC47

From Robert Mitchell (Chairman of TC47):

“TC47 has voted and agreed at the 2022 Plenary meeting to establish an ad-hoc group to address these issues. Language, terminology and scope of the group is under discussion.”

- This new working group shall align with EU „Trusted Chips“ and related world wide activities.
- Plan to accept not only representatives from National Committees (NC, but also representatives from companies.

Thank you for your
attention

