ECMA-341: the Design for Environment (DfE) Standard
International industry Association

- Founded 1961, headquartered in Geneva (CH)

International body

- Standardising Information & Communication Technology (ICT) and Consumer Electronics (CE)
- "To develop, in co-operation with the appropriate National, European and International organizations Standards and Technical Reports in order to facilitate and standardise the use of ICT systems"
Background for DfE Standard

• Recognition that an environmental conscious design standard was lacking;

• Need to standardise best Industry practices;

• Large companies wished to share extensive expertise with Small and Medium sized enterprises;

• **ECMA-341** is the only environmental conscious design standard for ICT and CE products.
Background for DfE Standard

- *Proposal of a DfE-Directive (EUP) by EU Commission*

- *Application of New Approach principles*

- *New Approach requires Technical Standards*

- *European Standardization bodies will have to develop standards*

- *Standardization hierarchy down to sectorial standards*

- *Involvement of stakeholders*

- *Recognition of existing international standards might prevent or help development of new standards*
TC38 Developed:

- Technical Report **TR/70**:
  - “Product-related environmental attributes”

- Standard **ECMA-328**:
  - “Detection and measurement of chemical emissions from electronic equipment”

- Standard **ECMA-341**:
  - “Environmental design considerations for electronic products”
Content:

- Material Efficiency
- Energy Efficiency
- Consumables & Batteries
- Chemical Emission
- Extension of Product Life Time
- End of Life
- Substances and Preparations needing special attention
- Documentation
- Design Checklist
• **Meeting all of the applicable “shall” statements**

• **Completing a design checklist** for the product (or for a given family of products);

• **Stating compliance through a supplier’s declaration such as ECMA TR/70.**
Status & Outlook


- Make Standard known as the only DfE standard for ICT and CE industry

- Use/apply the standard in industry worldwide to demonstrate environmental consciousness

- Fast Track to ISO/IEC and/or CENELEC