

Standards for a Data-Driven Society

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Data Driven Society

Applications

- 5G
- Blockchain
- Vehicle 2 Vehicle
- Internet of Things
- Cloud Computing

System

Each of these applications function between two or more processors with programmable memory often across APIs

New Adaptability Standards

- When standards are defined between computers with programmable memory a new class (succession) of standards is possible.
- New adaptability standards do not fix data or control. They only negotiate which possible data and control functions to select.

Standards Successions

Succession	Examples	Purpose	Society
5. Adaptability	Blockchain, modem handshakes, SIP, G3 fax T.30	Control variation	Data-driven
4. Compatibility	Railway gauge, G3 facsimile, APIs Gillette razor and blade, air interfaces	Interworking	Information
3. Similarity	Venetian galleys, ISO 9000, 14000, manufacturing	Replicate	Industrial
2. Measurement	Units of measure, currency	Quantify	Agrarian
1. Symbols	Number systems	Identify, count	Hunter/gatherer

The Benefits of Adaptability - 1

- Supports the rapid introduction of new technology.
- Supports proprietary, national and regional functions and features within public standards.
- Supports negotiation or control of modes, features and options.
- Selects compatible modes between different multi-mode systems while increasing system capacity.

The Benefits of Adaptability - 2

- Maintains interoperation between multiple implementations or revisions of standards.
- Moves intellectual property issues to the market.
- Identifies the specific reason(s) when interoperation fails.
- Avoid interfering communications.

Adaptability

A specific means to create and maintain interoperation between autonomous and heterogeneous systems at all OSI layers.

Adaptability includes three processes:

- Identification
- Negotiation
- Selection

Changes to Standardization Organizations

- Require adaptability standards in micro-processor-controlled interfaces
- Allow controlled IP only as an option in interface standards

Possible policy changes

- WTO
- Competition and antitrust
- WIPO
- Countries' patent procedures

Thank you

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