

Technology Neutrality

: S. Korea's Active X problem

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Active X woe in S. Korea in a decade

01

No Active X movement since 2013



Windows 10 updates crisis in 2015

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Microsoft Removes ActiveX In Windows 10 Default Browser Edge

By [Aaron Mamiit](#), Tech Times | May 10, 4:35 AM

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Microsoft is serious about giving a fresh start to its own Internet browser, with the new Edge browser, which will be included in the upcoming Windows 10 operating system, to not include old technologies such as ActiveX.

Internet Explorer had collected a long list of abilities and features over its years of service that have become more of a burden to the company and to Web programmers. Microsoft is now taking out around two decades of this accumulated junk with the refreshed

Combination of Active X + Authorized Digital Certificate

02

mandatory use of Authorized Certificate

(1) E-finance transaction Act 21 (3)

The Financial Services Commission may determine the standards necessary for the use and other authorization methods of the **authorized certificates** referred to in subparagraph 8 of Article 2 of the **Digital Signature Act** to secure the safety and reliability of electronic financial transactions.

(2) Digital Signature Act

- stipulates authorized (digital) certificate,
- invented by using Active X plug in 10 years ago
- only supported on MS windows, Internet Explorer

-> Gov. made technology mandatory for every online e-commerce

Path Dependency in a decade

1. Caused decade long monopoly of
(1) Internet Explorer
(2) Windows

2. No technology invented other than DC,
vulnerability of Active X affects users' pc.

⇒ Gov. interfered / distortion of market mechanism

Technology Neutrality

Technology Neutrality

definition

is an approach of the ICT regulation in a manner that does not recognize or advantage any particular technology.

EU

Stipulated in EU framework directive 2002/21 as follows,

… making regulation **technologically neutral**, that is to say that it neither imposes nor discriminates in favor of the use of a particular type of technology …..

Meanings

(1)

Competition

Leave companies free to adopt whatever tech is most appropriate to achieve the result.

(2)

Non discrimination

Same regulation should apply regardless of the technology used

(3)

Innovation

Regulators should refrain from pushing market toward a particular structure that regulators consider optimal.

Non - Technologically Neutral Regulation

(1)

quickly becomes obsolete and require further amendment.

(2)

prevents competition among technologies as well as discriminate a particular technology with others.

(3)

works as entry (trade) barriers for foreign tech companies, which could isolate the country's internet from global internet.

Open Net's Victory

Revised e-finance act into a tech neutral one 2014 and now ...

4-1

Art. 21 (3)

Gov. should not impose mandatory use of particular type of technology or service ...

2015

Digital certificate innovates itself not using Active X.
Plural tech are competing in the certificate market.
Gov. to remove Active X in several years.

Conclusion

Tech Neutrality facilitates competition and innovation of ICT.

Government should take a role as a referee not a player in the market .

Q&A

Exceptions / Misunderstandings

(1)

Tech neutral Subsidy or State aid?

- Tech meeting 'performance standard' should be subsidized.

(2)

No regulation in tech?

- All tech companies are subject to the same competition law.

(3)

No Tech standard or No intervention of Gov.?

- Standards are made under market mechanism.
- Setting standard in public goods such as frequency allocation for wireless networks for effectiveness and efficiency.