



Global political economy of technology standardization: A case of the Korean mobile telecommunications market

Whasun Jho

Department of Political Science and International Studies, Yonsei University, Seoul 120-749, Republic of Korea

Abstract

This paper examines empirical cases of standardization in the Korean mobile market as vehicles for approaching the broader political and institutional context of standardization in telecommunications. A consideration of Korean standardization in the mobile telecommunications market is particularly interesting because it reveals how the state's political interests influence standards decisions, which are primarily driven by market and technological changes in telecommunications. Judged from the social construction of technology perspective which sheds light not only on technology itself but also on political, social and economic interests that surround transformations in technology, this paper highlights power relations among the major actors that have made technology standards decisions in Korea regarding second (2G) and third-generation (3G) mobile telephony. The paper also attempts to show how the Korean government has dealt with the diverse interests of various market actors while pursuing its own policy agenda.
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Keywords: Standardization; Mobile telecommunications; IMT-2000; Digital mobile technology

1. Introduction

Over the past two decades a growing body of economic literature has made large strides into studying the role of technical standards in shaping telecommunications markets (Antonelli, 1998; David & Steinmueller, 1994). Such research has focused on the emergence of technical standards driven by the technical and economic interests of firms in telecommunications markets while paying less heed to the political dimensions and the context surrounding standardization in the telecommunications industry. A standard does not develop solely according to technical logic or any other single economic phenomenon. The political and social interests and pressures behind technical standardization play a crucial role in defining the path of technical and industrial development (Dosi, 1982; MacKenzie & Wajcman, 1985). Thus, a broad range of political and social factors as well as economic and technical considerations can, and more often than not, influence the selection of a technology standard.

This paper examines empirical cases of standardization in the Korean mobile market as evidence of the broader political and ideological context of standardization in telecommunications. A consideration of

E-mail address: wjho@yonsei.ac.kr.

Global Telecommunications Regulation A Political Economy Perspective

**Patricia McCormick, Maury J.
Mechanick**



Global Telecommunications Regulation A Political Economy Perspective:

Global Telecommunications Regulation Kelley Lee,1995 *The International Telecommunications Regime: Domestic Preferences and Regime Change* Juan Ratto-Nielsen,2009-12-26 This study examines the evolution of the international regime in telecommunications with the main objective of furthering our understanding of the process of regime transformation The dominant theories of international relations realism and institutional liberalism specify how states with shared interests use institutions to realize joint gains and to minimize the possibility of defection But these theories have little to say about when states will attempt to change the objectives that lead them to create the international institution in the first place The main goal of this book is to investigate and test the assumption that domestic politics by themselves can explain the dynamics of regime creation evolution and change as it happened within the International Telecommunications Union ITU *Routledge Encyclopedia of International Political Economy* R. J. Barry Jones,2002-09-11 This three volume Encyclopedia offers the first comprehensive and authoritative survey of the rapidly developing field of international political economy Its entries cover the major theoretical issues and analytical approaches within the field The set also provides detailed discussion of the contributions of key individuals and surveys a wide range of empirical conditions and developments within the global political economy including its major institutions The Encyclopedia has been designed to be eclectic in approach and wide ranging in coverage Theoretical entries range from discussions of the definition and scope of the field through core methodological questions such as rationalism and the structure agent problem to surveys of the major theories and approaches employed in the study of the international political economy *The International Radio Regulations* Mohamed Ali El-Moghazi,Jason Whalley,2022-01-01 This book provides an in depth introduction to the International Telecommunication Union ITU Radio Regulations RR and the policies that govern them Established in 1906 these regulations define the allocation of different frequency bands to different radio services the mandatory technical parameters to be observed by radio stations especially transmitters and the procedures for spectrum use coordination at the international level The book analyzes the interactions between different national policies and the ITU RR noting how these interactions influence spectrum policy on the national level setting up a comparative framework within which to view these regulations and their effects Beginning with an overview of the history of the origins ITU RR the book takes a deep dive into the components of spectrum management including radio communication service allocation wireless technology selection radio usage rights and spectrum rights assignment placing each analysis within the context of the push and pull between national and international regulations The book concludes with chapters discussing issues affecting the future of spectrum policy including spectrum policy reform in developing countries the WRC 19 and IMT 2020 Shedding light on the longest running treaty documents in the history of modern telecommunications and arguing for reforms that allow it to address the needs of all nations this book is useful to scholars and students of telecom policy digital policy ICT governance and development as

well as telecom industry practitioners and regulators JOURNALISM AND MASS COMMUNICATION -Volume II Rashmi Luthra,2009-05-12 Journalism and Mass Communication is the component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Journalism and Mass Communication deals in two volumes and cover five main topics with a myriad of issues of great relevance to our world such as Evolution of Journalism and Mass Communication Evolution of Mass Communication Mass Communication and Sustainable Futures The Internet as a Mass Communication Medium Management and Future of Mass Communications and Media Communication Strategies for Sustainable Societies which are then expanded into multiple subtopics each as a chapter These two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs **The Oxford Handbook of Institutions of International Economic Governance and Market Regulation**

Brousseau/Glachant/S,2023-07-11 His handbook is currently in development with individual articles publishing online in advance of print publication At this time we cannot add information about unpublished articles in this handbook however the table of contents will continue to grow as additional articles pass through the review process and are added to the site Please note that the online publication date for this handbook is the date that the first article in the title was published online

The Information Revolution and the Arab World The Emirates Center for Strategic Studies and Research,1998-08-04

The Oxford Handbook of International Business Alan M. Rugman,2003 This handbook synthesises some literature of the last 40 years in 28 chapters The coverage is split into the following areas the history and theory of the multinational enterprise the political and policy environment of international business Internationalizing the Internet Byung-Keun Kim,2005-01-01 This compelling book focuses on the global formation of the Internet system It contests the common belief that the Internet s adoption was inevitable and instead examines the social and economic processes that allowed it to prevail over competing standards and methods for achieving a global information infrastructure Researchers and academics involved with science and technology policy industrial and corporate change and the information society will welcome this insightful original and highly pertinent book It will also be of value for anyone with an interest in how the backbone of the digital economy was formed BOOK JACKET

The Transformation of Intergovernmental Satellite Organisations Patricia McCormick,Maury J. Mechanick,2013-10-10 The Transformation of Intergovernmental Satellite Organisations Policy and Legal Perspectives offers a multifaceted analysis of the complex policy and legal issues associated with the privatisation or restructuring of the world s preeminent intergovernmental satellite organisations INTELSAT INMARSAT and EUTELSAT Maury Mechanick Christian Roisse and David Sagar each of whom were directly involved in these undertakings provide a unique perspective on the critical issues involved while Frans von der Dunk and Patricia McCormick offer a broader contextual assessment of their significance The contributors insights regarding the restructuring of these satellite

organisations and the intergovernmental organisations which oversee public services represent valuable reflections on those developments as well as on changes occurring following privatisation regarding those entities ownership profiles and service provisions

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The Global Political Economy of Communication Edward A. Comor, 1996-09-18 This collection examines the theoretical analytical and political implications of

global developments involving telecommunications and related technologies The book's contributors from fields such as economics political science and communication studies relate research on the political economy of communication with the work of international political economy scholars The book stimulates cross disciplinary debates among readers in these and other areas in order to first critically evaluate recent global developments involving communications and second to encourage the development of a more holistic and inclusive approach to these and related issues *Global Governance Facing Structural Changes* Kim Fontaine-Skronski, Michèle Rioux, 2015-08-05 Contemporary governance is a contested field of competing institutional schemes and system of rules This book analyzes new institutional trajectories the renewal of old institutions or the emergence of new ones to understand their interaction and how they can help renew collective action in a new world of global digital capitalism *Politics and Globalisation* Martin Shaw, 2003-09-02 Globalisation is widely understood as a set of processes driven by technological economic and cultural change Few have successfully defined the changing character and role of politics in global change Political institutions such as the nation state have been seen as undermined by globalisation or needing to respond to it This book clarifies the tensions which global change has provoked in our understanding of politics Politics and Globalisation suggests that globalisation is a process which is politically contested and even politically constituted The volume presents five key intellectual and political contests in globalisation the extent and political significance of globalising changes in economy and society how and how far the relations and forms of nation state organisation are transformed whether the given concepts and methods of political science as a discipline can be applied to global and regional politics and whether they require radical reformulation the role and significance of ethical questions in global change whether global change is constituted by or denies radical political agency Palgrave Handbook of Inter-Organizational Relations in World Politics Rafael Biermann, Joachim A. Koops, 2016-11-29 This unique handbook brings together a team of leading scholars and practitioners in order to map synthesize and assess key perspectives on cooperation and rivalry between regional and global organizations in world politics For the first time a variety of inter disciplinary theoretical and conceptual perspectives are combined in order to assess the nature processes and outcomes of inter organizational partnerships and rivalries across major policy areas such as peace and security human rights and democratisation as well as finance development and climate change This text provides scholars students and policy makers of International Relations with an exhaustive reference book for understanding the theoretical and empirical dimensions of an increasingly important topic in International Relations IR Global Governance and related disciplines *Encyclopedia of Computer Science and Technology* Allen Kent, James G. Williams, 2000-09-06 This 43rd volume assesses the value of EDI to using workstations as building blocks for parallel computing **Globalization and Media Policy** NA NA, 2016-09-23 This book takes a fresh look at media and communications policy and provides a comprehensive account of issues that are central to the study of the field It moves beyond the specifics of regulation by examining policy areas that have proved to be of

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