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# TRANSFER PRICING SYMPOSIUM

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# **Potential Tools for TP from FRAND Rate Determination**

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# **Standard Essential Patents (SEPs)**

- Standards are developed to achieve economies of scale and support interoperability
- Example: smartphones
  - Wi-Fi, 5G, Bluetooth, audio and video codec, etc.
  - Benefits to device makers, network operators and consumers
- Standards are developed by industry participants in Standard Development Organizations (SDOs)
  - Example: European Telecommunications Standards Institute (ETSI)
- SEPs are patents that are necessarily infringed when practicing the standard.
- What rates should implementers pay to SEP holders?

## Fair, Reasonable and Nondiscriminatory (FRAND)

- SDOs often require that members with patents that are essential to a standard or technical specification commit to licensing on FRAND terms
- Most important component of FRAND terms is FRAND rates
  - FRAND rates should adequately reward SEP holders for their investment in innovation
  - FRAND rates should not include the value of standardization
- Methods to determine FRAND rates
  - Comparable licenses approach
  - Top-down approach
  - Bottom-up approach
- Potential applications to TP?

- Royalties received in comparable licensing circumstances
  - SEP holder signed a licensing agreement with another implementer for the same SEP portfolio
  - Implementer signed a licensing agreement with another SEP holder for a similar SEP portfolio
- Unwired Planet v. Huawei (2017); InterDigital v. Lenovo (2023)
- Similar to the CUT method in TP
- There are often disputes on what other licenses are comparable

- FastTop Case Study
  - Example 1: Company H makes and sells a laptop hardware comparable to FastTop made by Affiliate A without special software but at a cheaper price

Hardware	Price
Affiliate A	\$500
Company H	\$400
Difference	\$100

- FastTop Case Study
  - Example 2: Company S develops and sells software that doubles processing speed, comparable to what Affiliate B has developed

Software	Price
Affiliate B	\$1,000
Company S	\$1,100
Difference	-\$100

- FastTop Case Study
  - Example 3: Combine hardware and software differences

Hardware	Price
Affiliate A	\$500
Company H	\$400
Difference	\$100

Software	Price
Affiliate B	\$1,000
Company S	\$1,050
Difference	-\$50

#### Method 2: Top-down

- Estimate aggregate royalty burden (ARB) for all SEPs relevant to the standard and then apportion ARB to specific SEP portfolio
- TCL v. Ericsson (2017); Huawei v. Conversant (2018)
- There are often disputes on the value of ARB
  - Example: announced ARB for 4G SEPs not exceeding 10% of product price
- Hedonic regression to estimate value from standardized cellular technology
  - Holding the screen size, processing power, and other features constant, how much value does a new cellular generation add to a phone's worth?
- Courts have reacted differently to hedonic regression
  - Accepted: Huawei v. Conversant (2018) for 3G and 4G SEPs
  - Rejected: InterDigital v. Lenovo (2023) for 3G, 4G and 5G SEPs

## Method 2: Top-down

FastTop Case Study



- Core features of laptops
  - Processing speed, size, memory, storage, screen resolution, battery life, accessories, etc.
- Data
  - Many models sold at different times with varying features and prices
- Hedonic regression: what's the market value of improved processing speed, holding all other features the same?

# Method 2: Top-down

- FastTop Case Study
- Estimate of the value of doubling processing speed: \$1,100

Software	Price
Affiliate B	\$1,000
Hedonic value	\$1,100
Difference	\$100

## Method 3: Bottom-up

- FRAND rate is incremental value of the SEP relative to next best alternative
- Often difficult to find next best alternative
- FastTop Case Study: what's the incremental value of improved processing speed?

#### Summary

- Determination of FRAND rate is based on value, not cost
- Each method has limitations
- Courts tend to use multiple methods for cross check
- Some potential to apply to TP
- Need to fit the facts of the case