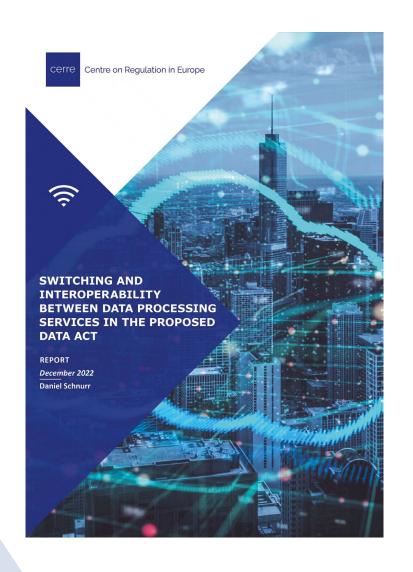


SWITCHING AND INTEROPERABILITY BETWEEN DATA PROCESSING SERVICES IN THE PROPOSED DATA ACT

Daniel Schnurr, BEREC Workshop April 28, 2023







Findings of the CERRE Report on Data Processing Services

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THE MAIN FOCUS OF THE DATA ACT SHOULD BE ON FACILITATING SWITCHING BY STRENTHENING DATA PORTABILITY

Main rationale behind recommendations:

- DA as a symmetric regulatory framework of basic rules
- Weigh benefits of regulation against potential adverse side effects and regulatory burden in a technically complex and dynamic sector
- Prioritize clarity and enforceability of rules





THE MAIN FOCUS OF THE DATA ACT SHOULD BE ON FACILITATING SWITCHING BY STRENTHENING DATA PORTABILITY

Main rationale behind recommendations:

- Promote and facilitate one-off switching between data processing services
- Interoperability regulation and mandatory standards as additional provisions subject to further justification
- Competition law and sector-specific regulation as complementary tools





KEY RECOMMENDATION 1:

ON CONTRACTUAL OBLIGATIONS

Ensure effective right to data portability (Art. 24, Art. 25), but retain general freedom to conduct a business (remove Art. 23 (1) (a))

- Contractual obligations should be targeted to the switching process
- Provisions should safeguard against inflated financial barriers to switching, but allow for recoupment of "regular costs"
- Account for responsibilities of all involved parties in the switching process





KEY RECOMMENDATION 2:

ON DATA PORTABILITY

Make Art. 24 (1)(b) on minimum scope of data and Art 26 (4) on data format the default portability requirement for all data processing services

- Data and metadata should be exportable in a structured, commonly used and machine-readable format
- In addition, data should be available in a *non-proprietary, open* format





KEY RECOMMENDATION 3:

ON FUNCTIONAL EQUIVALENCE

Replace the functional equivalence criterion with a (hypothetical) "service replication test" that refers to the original service provider

- Key idea: Is the portable data sufficient to recreate the same service at the original provider?
- Minimizes the need to classify services of the "same service type"





KEY RECOMMENDATION 4:

ON INTEROPERABILITY REGULATION

Mandatory interoperability standardisation should be tied to

- i) ineffectiveness of data portability in specific markets or
- ii) identification of market failures
- Technical complexity, broad diversity of services and dynamic technological progress should be considered
- Mandatory interoperability standards can promote competition, but may also have detrimental effects on smaller providers





OUTLOOK

- The Data Act creates a symmetric regulatory framework of basic rules
- Sector-specific regulation and the DMA present complementary instruments to address potential competition issues
- This requires a thorough understanding of the economic characteristics and competition dynamics in the cloud computing industry in order to target policy interventions to potential market failures
- Rule implementation in this technically complex industry will be key and will require technical expertise and facilitating institutions





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BACKUP





Contractual safeguards

(Maximum transition period, no switching-specific charges)



Enhanced Data Portability

Minimum scope of data and metadata (Art. 24 (1)(b))

Structured, commonly used, non-proprietary and + machine-readable format (Art. 26 (4))

"Service replication test" at the original service provider



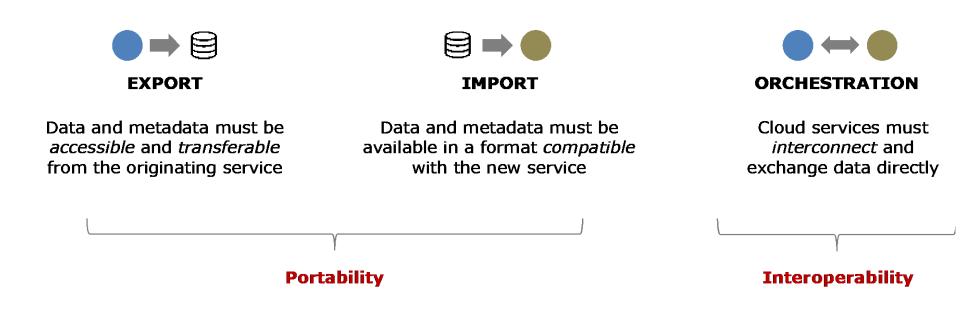
Mandatory interoperability standardisation

tied to i) ineffectiveness of data portability or ii) identification of market failures





DATA PORTABILITY AND INTEROPERABILITY AS TWO DISTINCT CONCEPTS

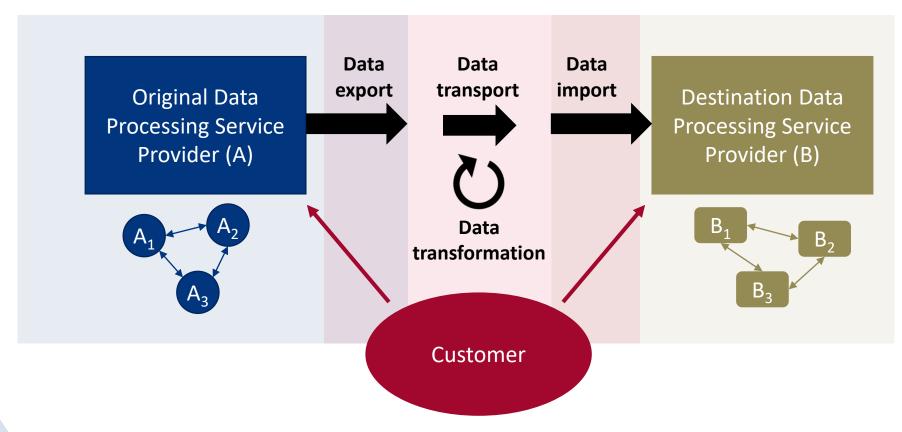


- Mixing of terminology and lack of clarity in the DA
 - DA: Horizontal interoperability between services of the same service type?
 - Facilitated switching hinges on one-off data portability
 - Service portability requires vertical interoperability





STYLIZED SWITCHING PROCESS







CONTRACTUAL OBLIGATIONS

- Art. 23 (a): Termination of a contractual agreement within a maximum notice period of 30 days
- Art. 24 (1) and (2): Maximum transition period for the switching process
- Art. 25: Gradual withdrawal of any switching charges over three years after the publication of the DA
- DA provisions should be targeted to the actual switching decision and process
- As the DA is a horizontal law and symmetric regulation, effects on smaller providers and markets entrants must be considered





DATA PORTABILTIY

- Art. 24 (1) (b): Minimum scope of exportable data including metadata created during the use of the service
- Art. 26 (4) on commonly used and machine-readable data formats should facilitate one-off data import and exports for switching customers
- Functional equivalence criterion
 - Key idea: portable data should be of sufficient quality and completeness
 - Unclear applicable scope: laaS services vs. all data processing services
 - Original service seemingly held responsible for output, performance, and quality of the destination service
- Unclear how classification of data processing services of the same service type could be operationalised





INTEROPERABILITY

- Benefits of horizontal interoperability obligations not immediately evident
- (Vertical) Interoperability regulation requiring universal standards face
 significant technical challenges and run the risk of slowing down innovation
- Mandatory standards may hurt smaller providers and market entrants
- Unclear how standardisation would deal with diverse service landscape and distinguish between services of different service types





KEY RECOMMENDATION 4:

ON INTEROPERABILITY REGULATION

- Technical complexity, broad diversity of services and dynamic technological progress should be considered
- Mandatory interoperability standards can promote competition, but may also have detrimental effects on smaller providers
- Business users make strategic adoption decisions, which can facilitate market-driven alliances of interoperable providers