

# The Impact of Service Characteristics on the Switching Costs–Customer Loyalty Link

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During the last decade, an increasing number of studies have contributed to understanding the construct of switching costs, defined as “the perceived economic and psychological costs associated with changing from one alternative to another” (Jones, Mothersbaugh, and Beatty 2002, p. 441). Recently, researchers have clarified the construct, while also developing useful measurement scales of it (Burnham et al., 2003 and Jones et al., 2002). Moreover, research has identified the mechanisms through which switching costs influence important relationship marketing outcomes, such as customer loyalty, word-of-mouth behavior, and customer commitment (Dwyer and Schurr, 1987, Heide and Weiss, 1995, Jap and Ganesan, 2000, Jones et al., 2007, Lam et al., 2004 and Ping, 1993).

Retail managers often use switching costs as a means to encourage customers to stay with the firm. Since most retailers offer a wide variety of services (e.g., restaurants, e-commerce websites, financial services), important questions are whether switching costs are effective in retaining customers for the various retail services, and if so, which types are most effective.<sup>1</sup>

Research that tests the impact of switching costs on customer loyalty has produced inconsistent results (as our meta-analytic review will show). These inconclusive findings may be a consequence of a number of factors, including the type of service industry and the type of switching costs. The need to study contextual factors is underlined by a recent meta-analysis by Pick and Eisend (2013), in which they found a surprisingly weak overall effect of switching costs on switching intention ( $r = -.090$ ). The authors note that switching costs affect switching intention in service industries ( $r = -.108$ ) but not in goods industries ( $r = .054$ ).

However, the retail service industry is heterogeneous (Zeithaml and Bitner 2003), and whether the impact of switching costs also differs between retail service industries remains untested. Thus, our study attempts to examine the effectiveness of different types of switching costs across retail service industries serving the consumer market (Pick and Eisend (2013) did not assess differences across retail service industries).

More general characteristics of services, including intangibility, heterogeneity, inseparability, and perishability (referred to as the IHIP characteristics), might be useful in assessing the effects of switching costs on important outcomes such as customer loyalty. While studies suggest that different types of switching costs vary in their relevance across service industries (Burnham, Frels, and Mahajan 2003), it remains unclear how these costs interact with service characteristics. Against this backdrop, we contribute to the literature in several ways.

First, we offer a two-dimensional conceptualization of perceived switching costs, differentiating between an internal and an external dimension. We distinguish between (a) internal switching costs, which are costs primarily rooted in an individual customer's expertise, skills, or ability relative to considering a switch and (b) external switching costs, which are costs based on the benefits provided by the provider to encourage the customer to stay.

Second, we examine whether the effects of both types of switching costs on customer loyalty are contingent upon four service characteristics. Particularly, we test (a) whether an interaction effect exists between service characteristics and switching costs, (b) the direction of this effect, and (c) whether the four service characteristics affect perceptions of switching costs equally.

This study begins by providing a brief overview of the dimensionality of switching costs and the IHIP-classification of services. After deriving our hypotheses, we employ meta-analytic techniques including 183 correlations from more than 33,268 customers to test our basic assumption that whether the link between switching costs and customer loyalty varies across different types of switching costs and across different retail services industries (Study 1). Study

2, using data from 51 retail service industries and 1,694 customers, along with expert ratings on service characteristics, provides further evidence for the impact of IHIP characteristics on the effectiveness of switching costs. Finally, we discuss the results of both analyses and the associated managerial implications.

## Service Characteristics, Switching Costs, and Customer Loyalty

### The Internal/External-Switching Costs Typology

Switching costs are “the perceived economic and psychological costs associated with changing from one alternative to another” (Jones, Mothersbaugh, and Beatty 2002, p. 441). These costs are “search costs, transaction costs, learning costs, loyal customer discounts, customer habit, emotional cost and cognitive effort, coupled with financial, social, and psychological risk on the part of the buyer” (Fornell 1992, p. 10).

Burnham, Frels, and Mahajan (2003) suggest a three-dimensional typology: (1) procedural, (2) financial, and (3) relational switching costs. Procedural switching costs relate to an individual's perceived effort of information gathering and evaluation of the necessary steps involved in switching. They capture the expected costs associated with information gathering prior to changing a service provider (preswitching costs), costs anticipated with evaluation of a new service provider (uncertainty costs), costs associated with the establishment of a new relationship (setup costs), and the costs expected relative to learning the routines and procedures of a new provider (postswitching and behavioral costs). Financial switching costs arise from structural bonds imposed by the provider. They capture costs stemming from specific benefits that could be lost when switching from a current provider (costs of lost performance), and from previous investments that could be lost if the customer switched (sunk costs). Third, the provider's relationship-building efforts result in relational switching costs. Cases in which the customer must break a bond with a provider-brand (brand relationship costs) or with a customer-contact employee (personal relationship loss costs) can result in emotional discomfort for the customer.

Procedural switching costs are rooted primarily in the individual, who may lack the expertise, skills, or ability to gather the necessary information associated with the switching process, to evaluate alternative service providers, or to learn the procedures and routines of the new firm, all of which make switching more difficult. We refer to these as internal switching costs. On the other hand, the provider sets up financial and relational switching costs in order to create additional benefits or bonds that can bind the customer to the firm.<sup>2</sup> We refer to these costs as external switching costs. We expect these switching costs will differ in their impact on customer loyalty given theories such as information processing and expectancy disconfirmation. While information processing theory suggests that consumers need a good understanding about the service offering in order to overcome internal switching costs (making them ineffective), expectancy disconfirmation theory argues that a good understanding of the service offering helps managers to develop external switching costs that meet the customer expectations (making them more effective) (Oliver 1993).

The goal of this study is to derive new insights into the effectiveness of switching costs across service industries by applying this two-dimensional typology. This is useful for two reasons. First, the literature argues that in evaluating services vs. goods, customer expertise often plays a greater role in decision-making because the individual is actively involved in service creation and faced with the challenge of assessing intangible offerings (Andreassen and Lindestad, 1998 and Zeithaml and Bitner, 2003). Even within a particular retail service industry, the necessary expertise to switch may differ between individuals, suggesting that internal switching costs' relevance may also vary across these industries.

Second, the service literature stresses the existence of numerous perceptual gaps between customers and firms, which complicate design, development, delivery and communication of a firm's actions (Parasuraman, Zeithaml, and Berry 1985). We argue that due to these discrepancies, the service benefits that might be lost in a switch (i.e., external switching costs) are not equally effective across service industries, with the potential perceptual gaps causing relationship-building efforts (such as service brands and loyalty schemes) to work differently in different industries (e.g., Dall'Olmo and De Chernatony 2000).<sup>3</sup>

## The IHIP Framework

Researchers often study services by examining different combinations of service characteristics in order to classify types of services into groups with similar characteristics (Shafti, van der Meer, and Williams 2007). One such approach, the IHIP framework, differentiates services and products on four key aspects—intangibility, heterogeneity, inseparability, and perishability (Shostack 1977).<sup>4</sup>

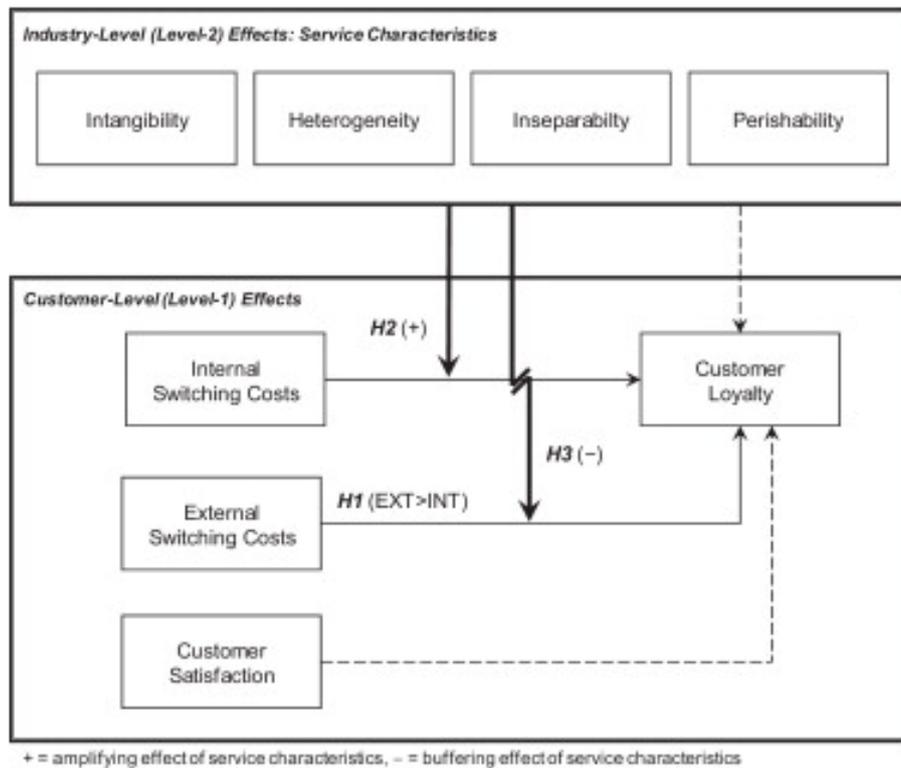
The first service characteristic is intangibility, which suggests that services “can’t be held, touched, or seen before the purchase decision,” making services more difficult to evaluate than products (Kerin et al. 2003, p. 323). The literature further distinguishes between “physical intangibility” (that which cannot be touched) and “mental intangibility” (that which cannot be mentally grasped) (Bateson 1979, p. 139). While physical intangibility refers to the inaccessibility of the service to the individual's senses, mental intangibility underscores that individuals have difficulties forming a clear mental image of the service (Laroche, Bergeron, and Goutaland 2001). Heterogeneity refers to the inability of a firm to provide consistent service performance and quality.<sup>5</sup> This lack of consistency can derive from customer interaction with the retail service provider, or from unique customer demands and expectations across service employees and contexts (Pine, 1993, Pride and Ferrell, 2003 and Solomon and Stuart, 2003). Inseparability refers to the simultaneous production and consumption of such as a service. This simultaneity requires active or passive participation by the customer (e.g., Bendapudi and Leone, 2003 and Bitner et al., 1997). The fourth service dimension, perishability, refers to the difficulty firms encounter in creating and storing services in advance (Zeithaml and Bitner 2003), making it more difficult for a customer to assess the offering prior to purchasing it.

In a first attempt to examine the interrelationship between industry characteristics and switching costs, Burnham, Frels, and Mahajan (2003) found that product complexity and provider heterogeneity increase switching costs, with different effects attributed to the variables based on type of switching cost. The authors argue that complexity of the offering may negatively affect the customer's ability to understand or use the offering. Similarly, offerings with greater complexity involve a larger number of skills or scripts that a customer must relearn in order to switch providers. In addition, complex offerings are not easy for customers to try, making it harder for the customer to establish the new relationship. Noting that internal switching costs refer to an individual's skills, and following Burnham and colleagues' (2003) logic, we argue that the four service characteristics interact with switching costs.

## Conceptual Model and Hypotheses

Fig. 1 summarizes the conceptual model. At the customer level, we examine the impact of internal and external switching costs on customer loyalty since prior research reported inconsistent findings as to whether and how switching costs affect customer loyalty. At the industry level, we assess the moderating effect of the IHIP characteristics on the switching costs–customer loyalty link. While we argue for an amplifying effect of service characteristics for internal switching costs, such that internal switching costs are more effective in industries higher in these characteristics, we hypothesize a buffering effect for external switching costs, such that external switching costs are less effective in industries higher in these characteristics.

Fig. 1. Conceptual model and hypotheses.



### Customer-Level (Level-1) Effects

Most researchers find a positive direct effect of switching costs on customer loyalty (Pick and Eisend 2013) and justify it with a cost–benefit rationale: the higher the perceived costs of switching, the more likely the customer will stay with their current provider. While that direct effect has received much attention in the literature, less is known about the effects of different types of switching costs on these outcomes (see Nagengast et al. 2014 for a notable exception). To address the impact of internal and external switching costs on loyalty, we draw on prospect theory (Kahneman and Tversky, 1979 and Tversky and Kahneman, 1979), which suggests that individuals have a tendency to avoid losses, making certain outcomes more important during decision-making than more uncertain outcomes. Therefore, an individual is more likely to switch when costs of switching are uncertain. A customer views external switching costs as more certain than internal switching costs because the customer faces an actual loss of additional benefits associated with external switching costs. Internal switching costs are less certain because the individual does not know how much effort will be required to search for an adequate new provider, or how much learning effort will be necessary with a new service provider. Because external switching costs are associated with a more certain loss of benefits, these switching costs may have a stronger impact on customer loyalty than internal switching costs. Therefore:

#### H1.

External switching costs have a stronger effect on customer loyalty than internal switching costs.

### Industry-Level (Level-2) Effects

Customers who intend to switch are faced with internal as well as external switching costs. We argue that the IHIP characteristics moderate the switching cost–loyalty link, but the direction of the moderation is contingent upon the type of switching cost.

#### The amplifying effect of internal switching costs

We propose that the IHIP characteristics have an amplifying effect on the internal switching costs–customer loyalty link (H2a–d and H3a–d) such that the influence of internal switching costs on loyalty is stronger for industries that

are high in these characteristics. Our reasoning for this assumption is rooted in information processing theory (Alba and Hutchinson, 1987 and Rao and Monroe, 1988) and the theory of planned behavior (TPB; Ajzen, 1985, Ajzen, 1991 and Bansal and Taylor, 2002).

Service characteristics influence the degree to which individuals gain expertise with one particular retail service. In industries high in service characteristics, the customer is less likely to develop domain expertise that would be helpful for overcoming internal switching costs. The experienced customer may find the information gathered about alternative providers more useful in decision-making and in learning the new providers' routines. The greater the individual's domain expertise and the more familiar the customer is with the service, the less influential internal switching costs become.

In line with this reasoning, the literature offers empirical evidence for an interaction effect between switching costs and expertise (Bell, Auh, and Smalley 2005). Research on individual decision-making indicates that familiarity leads to superior ability to encode new information and for learning (Johnson and Russo 1984), as well as to pay attention to useful information while ignoring irrelevant information (Alba and Hutchinson, 1987 and Rao and Monroe, 1988).

Similarly, studies using TPB (see, for instance, Notani's (1998) meta-analysis) note an interaction effect between familiarity and perceived behavioral control (PBC), which refers to an individual's "beliefs as to how easy or difficult the performance of the behavior is likely to be" (Ajzen and Madden 1986, p. 457) which is often conceptualized as switching costs. When persons are more unfamiliar with a behavior, they may consider irrelevant influences on their PBC, producing lower confidence in these beliefs (Fazio and Zanna 1981). Consequently, PBC is more likely to affect an individual for familiar than for unfamiliar behaviors.

As outlined, the service characteristics influence the degree to which individuals can use expertise gained with one service provider to evaluate switching to a different provider. The more intangible the industry is, the more difficulties a consumer will have in developing an understanding about the received service and in gaining the expertise necessary to overcome internal switching costs (Kerin et al. 2003). Hence, internal switching costs should have a stronger effect on customer loyalty in industries higher in intangibility.

Zeithaml and Bitner (2003) argue that the more heterogeneous the service, the more difficulty the customer will have comparing the current offering to that of alternative providers. Heterogeneity influences the extent to which knowledge concerning one provider is applicable to another (Schmalensee 1982). Consequently, an individual looking for a new service provider is less likely to benefit from the knowledge and skills acquired during their current service provider relationship (Alba and Hutchinson, 1987 and Solomon and Stuart, 2003).

Inseparability can affect the likelihood of learning about a provider's service processes, as well as affecting the choice of criteria to consider with regard to selection of a new service provider (Bendapudi and Leone, 2003 and Bitner et al., 1997). Integration of the customer into service provision not only changes the role of the customer, but also complicates the service processes. Thus, with greater inseparability the customer may have more difficulties developing knowledge or skills within a service category, making internal switching costs more relevant.

Finally, the perishability of the service can hinder the accumulation of category expertise, due to the need to meet more immediate demands, as well as demands that are time urgent or time sensitive. With higher perishability, a customer may stay longer with a service provider because of greater inability to overcome internal switching costs.

In sum, we argue for an amplifying effect of the four service characteristics such that:

#### **H2a–d.**

The four service characteristics (a) intangibility (mental/physical), (b) heterogeneity, (c) inseparability, and (d) perishability positively moderate the relationship between internal switching costs and customer loyalty, such that

higher levels of these service characteristics are associated with stronger positive relationships between internal switching costs and customer loyalty.

### **The buffering effect of external switching costs**

While H2a–d and H3a–d assumes an amplifying effect of IHIP characteristics for internal switching costs, in Hypothesis 3 we suggest a buffering effect for external switching costs. In our study, we argue that service characteristics moderate the link between external switching costs and loyalty, such that external switching costs become less important drivers of loyalty in industries high in the IHIP characteristics.

We find support for this assumption in the customer satisfaction literature (e.g., Oliver, 1979 and Parasuraman et al., 1985). For instance, Oliver (1979) suggests that satisfaction with an offering is the result of a comparison between an individual's expectations and the outcome. Parasuraman, Zeithaml, and Berry (1985) extend the service quality model by examining five perceptual “gaps,” which include differences in customer expectations/experiences, in addition to discrepancies in service design, communication, management, and delivery. Brown and Swartz (1989) argue that the nature of services necessitates a simultaneous examination of the two parties involved in the relationship (i.e., customer and firm) in order to understand the occurrence of satisfaction with service delivery.

When retail service industries are higher in the IHIP service characteristics, customer expectations of, and experiences with, the service may diverge from the manager's perceptions of the customer's expectations and experiences. We argue that due to higher levels of the IHIP characteristics, customers may have greater problems understanding the benefits of the service offering, and managers may have greater problems assessing and meeting customer expectations. Therefore, the creation, communication, and delivery of external switching costs may be more complicated in industries higher in service characteristics, making external switching costs less relevant in these industries.

The literature on service branding provides further support for these ideas, noting “consumers may not understand the detailed technicalities of the more complex and intangible services brands” (Dall’Olmo and De Chernatony 2000, p. 147; Mittal 1999). Thus, for retail services higher in IHIP, the benefits associated with external switching costs may be less likely to meet customer expectations, thus reducing their effectiveness.

With higher intangibility (and thus, more uncertainty), the retailer is confronted with the challenge of developing offerings that meet uncertain customer expectations ( Zeithaml 1981). Scholars claim that intangibility leads to greater perceptual differences between customers and managers ( Brown and Swartz, 1989 and Swartz and Brown, 1989), making external switching costs less relevant in more intangible switching situations.

For heterogeneous services, each service experience is unique, and consistency may be difficult to achieve ( Berry, 1980 and Lewis, 1989). The more heterogeneous the customer demands, the less likely the service manager will be able to develop service offerings that meet the individual customer's expectations. Consequently, external switching costs are less relevant in a switching decision involving a more heterogeneous service.

Inseparability influences the complexity of a provider's processes because the customer must be more involved in the service operations, making it harder for the firm to communicate and ensure their brand promise, as well as to achieve appropriate employee behavior during service provision. Therefore, the likelihood of not meeting customer expectations increases, and customers are less likely to consider the external switching costs in their switching decisions, relative to services higher in inseparability.

Finally, perishability should negatively influence the effectiveness of external switching costs because customers may be less certain about the performance of these offerings relative to their future needs. This can make it more difficult for managers to meet these expectations and thus they may have more difficulty developing appropriate service benefits and communicating them adequately to customers ( Dall’Olmo and De Chernatony 2000).

To sum up, because service characteristics have the potential to cause greater divergence in customer and manager perceptions of the offering, we argue that external switching costs are less effective in industries higher in IHIP characteristics:

### **H3a–d.**

The four service characteristics (a) intangibility (mental/physical), (b) heterogeneity, (c) inseparability, (d) perishability negatively moderate the relationship between external switching costs and customer loyalty such that higher levels of these service characteristics are associated with weaker positive relationships between external switching costs and customer loyalty.

### **Covariates**

In addition to internal and external switching costs as determinants of customer loyalty, we include customer satisfaction, understood as positive affective state resulting from the postpurchase evaluation of all aspects of a relationship with a firm (Geyskens et al., 1999 and Taylor and Baker, 1994), in our model. We control for additional variables at the customer- and the industry-level as explained in the following chapters.

## **Study 1: Meta-analytic Review**

### **Data Collection and Testing Approach**

In our meta-study, we test (1) whether internal and external switching costs influence customer loyalty at different strength and (2) whether the IHIP characteristics moderate these effects. To identify the relevant studies for the meta-analysis, we employed a literature search in several scientific databases, using the terms “switching costs” and “switching barriers” (Ebsco, Proquest, and Elsevier Science Direct). We also reviewed the major journals in the field, as well as the citations of seminal articles.<sup>6</sup> We contacted authors working in this area to request their unpublished research. However, we excluded studies that examined switching costs in a business-to-business context, as well as studies that examined products rather than services.

The main relationship of interest is the link between switching costs and customer loyalty. We use correlations as effect size. When only beta coefficients were reported, we transformed them into correlations using established formulas (Peterson and Brown 2005). In total, we found 45 studies capturing 183 correlations from 48 samples, which results in a combined sample size of  $N = 33,268$ . Two researchers independently coded the study characteristics (91 percent agreement). We coded the type of dependent variable (intention vs. behavior; switching vs. staying), the channel (online vs. offline), the study design (cross-sectional vs. longitudinal), the sample size, and the reliability measures for all constructs. We used the following definition of the major constructs to code the type of switching costs<sup>7</sup>:

1. Internal switching costs are rooted in the individual who may lack the expertise, skills, or ability to succeed in switching. Internal switching cost captures those perceived costs associated with the information gathering potentially required prior to changing a service provider, the costs associated with evaluation of a new service provider, the perceived costs associated with the establishment of a new relationship, and the expected costs of learning the routines and procedures of a new provider.
2. External switching costs are created by the provider (thus, referred to as external), in an effort to create additional benefits for the customer as a way to bind those customers to the firm. These switching costs capture the costs associated with specific benefits now received that could be lost if the customer switches from the current provider, from the previous investments that could be lost if the customer switched, and from customers' emotional discomfort in the case of breaking a bond with a provider-brand or with customer contact employees.

Because none of the coded studies report the level of the four service characteristics, we set up a team of 25 expert raters to assess their level for each service industry.<sup>8</sup> The raters were research assistants that have expertise in the

field of services marketing. To ensure a common understanding of the service characteristics, the raters also received extensive training. We introduced the four service characteristics to the team by giving them a definition of the construct and describing the construct's conceptualization. For each service characteristic, five experts rated each service industry with regard to the service characteristic, using a ten-point Likert scale (intangibility consists of two sub-dimensions, resulting in five constructs to be evaluated).<sup>9</sup>

We used two testing approaches for our hypotheses—bivariate analyses and GLS regression. First, we integrated the effect sizes of this research according to established guidelines (Lipsey and Wilson 2001). As suggested by Hunter and Schmidt (2004), we corrected effect sizes for potential artifacts (dichotomization of a continuous dependent variable, dichotomization of a continuous independent variable, range restriction in a dependent dichotomous variable, and range restriction in an independent dichotomous variable). Then we examined the integrated corrected effect sizes stepwise, starting with the mean values across the observed correlations, sampling-error weighed correlations (sample size differences), and finally correlations, which were sampling and measurement error (scale reliability differences) adjusted. For each effect size, we present a 95 percent confidence interval. In the case of significant mean effect sizes, we calculated the Fail safe N—a measure of the robustness of the results—that indicates the number of nonsignificant and unavailable studies needed to cause the cumulative effect size to become nonsignificant (Rosenthal 1979).

We tested the homogeneity of our effect size distribution using the Q statistic (Lipsey and Wilson 2001). This test indicates whether differences in the effect sizes are caused by factors other than sampling error, such as moderating variables. Hence, when the Q statistic is significant, a moderator analysis is recommended to identify those study characteristics that affect the level of the effect sizes, as well as to explain the variance in effect sizes. GLS regression analysis is an established procedure for testing whether study characteristics such as context variables (e.g., the IHIP levels of the industry) explain variability in the effect sizes (Geyskens, Steenkamp, and Kumar 1998).

## Results

For internal switching costs, the bivariate analyses indicate a sample-weighted reliability adjusted  $r$  of .255 (simple  $r = .199$ , sample-weighted  $r = .229$ ) with .249 for the lower bound of the confidence interval (CI) and .262 for the upper bound.<sup>10</sup> The calculated effect size is significant at a .01 level, suggesting that internal switching costs are positively related to customer loyalty (Fail safe  $N = 941$ ).<sup>11</sup> We calculated the same statistics for external switching costs and find a sample-weighted reliability adjusted  $r$  of .344 with  $p < .01$  (simple  $r = .268$ , sample-weighted  $r = .301$ ) and .333 for the lower bound of the confidence interval and .355 for the upper bound (Fail safe  $N = 1,377$ ). Comparing the integrated effect sizes of internal and external switching costs using a  $z$  test, we find that external switching costs display a stronger effect than internal switching costs ( $\Delta r = r_{\text{ext}} - r_{\text{int}} = .344 - .255 = .089$ ,  $p < .01$ ), providing support for Hypothesis 1.<sup>12</sup>

With respect to the inconsistencies of the findings from prior research on the switching costs construct, we find the correlations among all collected studies to vary from  $r = -.13$  to  $r = .73$ . Therefore, we tested the homogeneity of our effect size distribution using the Q statistic (Lipsey and Wilson 2001). The results indicate that moderating variables, such as service characteristics, may be the cause of differences in the effect sizes (Brown and Peterson 1993).

To examine the impact of the IHIP characteristics on internal (H2a–d and H3a–d) and external switching cost effects (H3), we utilized GLS regression with effect sizes as the dependent variable and study characteristics (level of IHIP) as the independent variables. To ensure that other study characteristics did not confound our findings, we also included the coded type of dependent variable (switching vs. staying), channel (online vs. offline), and study design (cross-sectional vs. longitudinal) as control variables.<sup>13</sup>

With respect to internal switching costs, we find evidence for the amplifying effect for physical intangibility ( $\beta = .033$ ,  $p < .10$ ), heterogeneity ( $\beta = .075$ ,  $p < .05$ ), and perishability of the service ( $\beta = .077$ ,  $p < .10$ ), providing support for H2a–d and H3a–d, H2a–d and H3a–d, and H2a–d and H3a–d. None of the tested study characteristics affect the

effect sizes. Testing a reduced model without covariates, we also find an amplifying effect for mental intangibility ( $\beta = .061, p < .01$ ). In total, the GLS regression explains 21 percent of the variance in the effect sizes.

With respect to external switching costs, we find a buffering effect for physical intangibility ( $\beta = -.248, p < .01$ ), heterogeneity ( $\beta = -.614, p < .01$ ), inseparability ( $\beta = -.147, p < .05$ ), and perishability of the service ( $\beta = -.799, p < .05$ ), providing support for H3a–d. Type of dependent variable ( $\beta = -.049, p > .05$ ), channel ( $\beta = -.899, p < .05$ ), and study design ( $\beta = .060, p > .05$ ) were also significant. This indicates that the effect sizes were stronger for staying than for switching measures, offline than online channels, and longitudinal than cross-sectional research designs. The GLS regression explains 44 percent of the variance in the effect sizes. When calculating the mean level of service characteristics across all characteristics, and running a GLS regression with this overall IHIP measure and covariates, we find further support for the amplifying effect for internal switching costs (H2a–d and H3a–d:  $\beta = .054, p < .01$ ) and the buffering effect for external switching costs (H3:  $\beta = -.075, p < .01$ ).

Our meta-analysis provides initial evidence for a moderating effect of service characteristics on the switching costs–loyalty link. Particularly, we find an amplifying effect for internal switching costs and a buffering effect for external switching costs. Since external switching costs were of greater importance for the customer's decision to stay with a provider than internal switching costs (H1), the IHIP characteristics have the potential to be more harmful for the effectiveness of external switching costs than for internal switching costs.

## Study 2: Multilevel Analysis

### Data Collection and Sample

In the second study, we include a wide range of industries using a classification scheme developed by the United Nations (CPC Ver. 2). This classification captures 4,408 different products and services. The classification itself consists of five levels with 125 classes of services on the third level. Consistent with our first study, we excluded 74 industries because those services (a) are offered to business customers exclusively (which is outside the consumer retail scope of this research), (b) are largely not available for potential customers in the specific country that we examine, or (c) the constructs of interest did not pass our pretesting of the questionnaire (e.g., the wording of the measures for the central constructs was not appropriate). An overview of the final set of 51 (retail) service industries and their corresponding CPC codes appears in Table 1. While five service industries represent retailing in a narrow sense (wholesale trade services on a fee or contract basis, nonspecialized store retail trade services, specialized store retail trade services, mail order or Internet retail trade services, retail trade services on a fee or contract basis), the majority of industries represent broader retail service industries (e.g., financial services, professional services).<sup>14</sup>

Table 1. Sample description: examined service industries.

<b>CPC</b>	<b>Industry description</b>	<b>CPC</b>	<b>Industry description</b>
545	Special trade construction services	838	Photography services and photographic processing services
546	Installation services	841	Telephony and other telecommunications services
612	Wholesale trade services on a fee or contract basis	842	Internet telecommunications services
621	Nonspecialized store retail trade services	843	On-line content
622	Specialized store retail trade services	845	Library and archive services
623	Mail order or Internet retail trade services	846	Broadcasting, programming, and program distribution services
625	Retail trade services on a fee or contract basis	852	Investigation and security services
631	Accommodation services for visitors	853	Cleaning services
632	Other accommodation services for visitors	855	Travel arrangement, tour operator, and related services
633	Food serving services	871	Maintenance and repair services of fabricated metal products, machinery, and equipment
641	Local transport and sightseeing transportation services of passengers	872	Repair services of other goods
642	Long-distance transport services of passengers	873	Installation services (other than construction)
651	Land transport services of freight	891	Publishing, printing, and reproduction services
6743	Parking lot services	913	Administrative services related to compulsory social security schemes
6744	Towing services for commercial and private vehicles	921	Preprimary education services
6811	Postal services	931	Human health services
6812	Courier services	934	Social services without accommodation for the elderly and disabled
691	Electricity and gas distribution (on own account)	943	Waste treatment and disposal services
692	Water distribution (on own account)	962	Performing arts and other live entertainment event presentation and promotion services
711	Financial services, except investment banking, insurance services, and pension services	965	Sports and recreational sports services
713	Insurance and pension services (excluding reinsurance services), except compulsory social security services	969	Other amusement and recreational services
721	Real estate services involving owned or leased property	971	Washing, cleaning and dyeing services
731	Leasing or rental services concerning machinery and equipment without operator	972	Beauty and physical well-being services
821	Legal services	9721	Hairdresser and barber services
832	Architectural services, urban and land planning, and landscape architectural services	980	Domestic services
835	Veterinary services		

We collected between 23 and 50 questionnaires on customer satisfaction, loyalty, and perceived switching costs for each industry via personal face-to-face interviews led by trained interviewers. The interviewers contacted the participants in the city center of a Midwestern German city to ensure a representative sample in terms of age, income, and gender. Each participant only responded relative to one company they used regularly in one particular industry. Our analyses were conducted at the customer and not at the firm-level. The questionnaires started with some filter questions to ensure that respondents were qualified to participate in the survey. Respondents were only

interviewed when they confirmed that they were regular customers of a specific service provider from the industry they were assigned to.

Data were collected in a two week period (N = 1,694 customers). The participants had an average monthly income of 1,535€ (SD = 891.2) (national average: 1,870€), with 52 percent females and 48 percent males in the sample (national average: 51 percent females and 49 percent males). Age of the participants was 37 percent between 15 and 25 years (national average: 14 percent), 43 percent between 25 and 45 years (34 percent), 17 percent between 45 and 65 years (30 percent), and 3 percent older than 65 years (22 percent). Although the percentage of elderly people was below the national average, the sample was fairly representative in terms of household income and gender.

### **Measures and Measurement Properties**

Conceptualizations and items for measuring the constructs were adapted based on prior research in the loyalty literature, using multi-item five-point Likert scales. Customer satisfaction is the positive affective state resulting from the postpurchase evaluation of all aspects of a relationship with a firm (Geyskens, Steenkamp, and Kumar 1999). We use a four-item overall satisfaction scale to assess respondents' general satisfaction, confirmation of expectations, and distance from their hypothetical ideal service provider (Fornell 1992). We adopt a scale of customer loyalty from Zeithaml, Berry, and Parasuraman (1996) and Hennig-Thurau, Gwinner, and Gremler (2002) that contains four items comprising both behavioral and attitudinal components. Switching costs are measured by adapting scales from Jones, Mothersbaugh, and Beatty (2000), Jones, Mothersbaugh, and Beatty (2002) and Burnham, Frels, and Mahajan (2003) (See Table 2 and Table 3).

Table 2. Reliability and validity of the constructs.

Scale/item	Alpha	CR	Ave
Customer satisfaction (Fornell 1992)	.91	.94	.80
I am satisfied with my service provider.			
What I get from my service provider falls short of what I expect for this type of service. (R)			
The service provider is getting close to the ideal service provider.			
The service provider always meets my needs.			
Customer loyalty (Hennig-Thurau et al., 2002 and Zeithaml et al., 1996)	.76	.85	.58
The service provider is my first choice for these kinds of services.			
I intend to use this service provider within the next few years.			
I have a very strong relationship with this service provider.			
I am very likely to switch to another service provider in the near future. (R)			
Internal switching costs	.74	.84	.56
Preswitching search and evaluation costs (Jones, Mothersbaugh, and Beatty 2002)	.90	.93	.73
It would take a lot of time and effort to locate a new service provider.			
If I changed service provider, I would not have to search very much to find a new one. (R)			
If I stopped going to my current service provider, I would have to search a lot for a new one.			
It takes a great deal of time to locate a new service provider.			
If I stopped using my current service provider, I would have to call and look around for a new one to use.			
Postswitching behavioral and cognitive costs (Jones, Mothersbaugh, and Beatty 2002)	.90	.93	.78
If I were to switch service provider, I would have to learn how things work at a new one.			
I would be unfamiliar with the policies of a new service provider.			
If I changed service provider, I would have to learn how the "system works," at a new one.			
Changing service provider would mean I would have learn about the policies of a new one.			
Setup costs (Jones, Mothersbaugh, and Beatty 2002)	.80	.88	.72
If I changed service provider, it would take a lot of time and effort on my part to explain to the new service provider what I like and what I want.			
If I changed service provider, I would have to explain things to my new service provider.			
There is not much time and effort involved when you start using a new service provider. (R)			
Uncertainty costs (Jones, Mothersbaugh, and Beatty 2002)	.67	.82	.61
I am not sure what the level of service would be if I switched to a new service provider.			
If I were to change service provider, the service I might receive at the new place could be worse than the service I now receive.			
The service from another service provider could be worse that the service I now receive.			
External switching costs	.78	.86	.60
Costs of lost performance (Jones, Mothersbaugh, and Beatty 2002)	.89	.92	.75
This service provider provides me with particular privileges I would not receive elsewhere.			
By continuing to use the same service provider, I receive certain benefits that I would not receive if I switched to a new one.			
There are certain benefits I would not retain if I were to switch service provider.			
I would lose preferential treatment if I changed service provider.			
Sunk costs (Jones, Mothersbaugh, and Beatty 2002)	.85	.91	.71
A lot of energy, time, and effort have gone into building and maintaining the relationship with this service provider.			
All things considered, I have put a lot into previous dealings with this service provider.			
I have spent a lot of time and money at this service provider.			
I have not invested much in the relationship with this service provider. (R)			
Brand relationship loss costs (Burnham, Frels, and Mahajan 2003)	.75	.86	.67
I like the public image my service provider presents.			
I support my service provider as a firm.			
I do not care about the brand/company name of the service provider I use. (R)			
Personal relationship loss costs (Burnham et al., 2003 and Jones et al., 2000)	.84	.91	.76
At least one employee at this service provider is familiar with me personally.			
I have a somewhat personal relationship with at least one employee at this service provider.			
I have developed a personal friendship with at least one employee at this service provider.			

Notes: Measured using a five-point Likert scale anchored by 1 = strongly disagree to 5 = strongly agree. (R) = item is reverse coded. Fit-indices: CFI = .92; TLI = .91; RMSEA = .06; SRMR = .06.

Table 3. Switching costs measurement model loadings and correlations.

Int	Ext	First-order switching costs	M	SD	1.	2.	3.	4.	5.	6.	7.	8.	9.
.58**		1. Preswitching search and evaluation costs	2.71	1.05									
.62**		2. Postswitching beh. and cognitive costs	3.19	1.03	.43**								
.83**		3. Setup costs	2.54	1.03	.44**	.48**							
.68**		4. Uncertainty costs	3.09	.86	.38**	.39**	.35**						
	.80**	5. Costs of lost performance	2.32	1.03	.34**	.24**	.45**	.46**					
	.84**	6. Sunk costs	2.24	.97	.35**	.28**	.57**	.32**	.57**				
	.67**	7. Brand relationship loss costs	3.04	.93	.10**	.13**	.29**	.31**	.49**	.42**			
	.67**	8. Personal relationship costs	2.34	1.19	.20**	.21**	.43**	.28**	.47**	.48**	.39**		
		9. Customer satisfaction	3.66	.89	-.03	.06*	.08**	.25**	.32**	.18**	.49**	.28**	
		10. Customer loyalty	3.14	.90	.17**	.14**	.19**	.36**	.50**	.36**	.56**	.38**	.60**

Notes: The first two columns include the factor loadings of the lower order-switching costs on the two-dimensional higher order conceptualization. The items are measured using a 5-point Likert scale anchored by 1 = strongly disagree to 5 = strongly agree.

\*Effects significant at .05-level.

\*\*Effects significant at .01-level.

Coefficient alpha is larger than .7 for most constructs, the threshold generally proposed in the literature (Nunnally 1978). Also, composite reliabilities (CR) are high (.82–.93). Discriminant validity is indicated based on the criterion proposed by Fornell and Larcker (1981). In sum, the reliability and validity of the constructs in this study are acceptable.

Because the literature recommends a parsimonious structure of switching costs when examining the interrelationships with other constructs (Kumar, Stern, and Achrol 1992), we derived composite measures for each switching construct and examined them using a varimax-rotated exploratory factor analysis. Results support the two-factor structure of switching costs (MSA = .84; variance explained = .60). The two factors reflect internal and external switching costs. As suggested by Jones, Mothersbaugh, and Beatty (2002), all dimensions referring to learning and the consumer's expertise show high factor loadings on internal switching costs and all dimensions addressing benefits or bonds they do not want to lose show high factor loadings on external switching. We tested the two-factor model using a second-order CFA: CFI = .91, TLI = .90, RMSEA = .06, SRMR = .07. Again, the tested criteria, coefficient alpha, composite reliability, and discriminant validity ( $r = .55$ ) were met. Empirically, the suggested two-dimensional conceptualization of switching costs holds well.

Expert ratings were applied to the measurement of service characteristics. Rather than evaluating service characteristics by the same individual who participated in the main survey, expert ratings avoid potential problems of common method bias (Podsakoff et al. 2003) and are therefore more reliable. We introduced the four service characteristics to 25 service experts. Five marketing experts—the same as in Study 1—rated each service industry with regard to the existence of each service characteristic, using a ten-point Likert scale. Given that intangibility includes physical and mental intangibility, these two characteristics were evaluated separately.

## Analysis Overview

The data structure underlying Study 2 comprises two levels: customers (Level 1) nested in service industries (Level 2). To handle this multilevel data, the use of hierarchical linear models (HLM) is recommended (De Leeuw and Kreft, 1986, Hox, 1995 and Longford, 1993). It addresses the nesting of micro- and macro-level phenomena (Kozlowski and Klein 2000) and explicitly recognizes that individuals belong to particular groups (service industry) and that they may be more similar to individuals of the same group than to individuals in other groups. As a result, they may not provide independent observations (Hofmann 1997). HLM also takes macro-level effects into consideration, which may occur through interaction with micro-level elements (Kozlowski and Klein 2000). In our research, we examined 1,694 customers nested in 51 specific service industries. Analyses were conducted using the HLM software (Version

6.06) with grand-mean centering for the predictors. In addition to customer loyalty, switching costs, and service characteristics, the model includes customer satisfaction as a control variable (Jones, Mothersbaugh, and Beatty 2000). We used a random intercept and random slope model since it allows for generalizing beyond the particular groups in the study; that is, we examined customers from 51 service industries companies, with the goal of generalizing to a larger universe of service industries in examining the means (intercepts) or the Level 1 relationships (slopes).

## Results

Before estimating the two-level HLM model, we first test whether there is sufficient variance in the dependent variable (i.e., customer loyalty) between the groups (51 service industries). Examining the Intra-Class Correlation (ICC) (Raudenbush and Bryk 2002), we find that 10 percent (=ICC) of the variance of the customer loyalty construct is between the 51 classes. Hence, HLM is used for the data analysis (Muthén and Satorra 1995).<sup>15</sup> Results of the hypotheses tests appear in Table 4 and Table 5.<sup>16</sup>

Table 4. Results of hypotheses testing using hierarchical linear modeling (overall IHIP).

Dependent variable: customer loyalty	Model 0: base model estimate	Model 1: Level 1 effects only estimate	Model 2: random intercept model estimate	Model 3: random slope and random intercept model estimate
<b>Level 1: customer-level</b>				
Intercept	2.75**	2.75**	2.74**	2.74**
Satisfaction	–	.49**	.49**	.48**
Internal switching costs	–	.07**	.07**	.10**
External switching costs	–	.44**	.44**	.43**
<b>Level 2: industry-level</b>				
IHIP	–	–	–.07*,†	–.06*,†
IHIP × internal switching costs	–	–	–	.08**
IHIP × external switching costs	–	–	–	–.08**
ICC	.10	–	–	–
DEFF	4.17	–	–	–
R <sup>2</sup> (within)	–	.51	.51	.53
R <sup>2</sup> (between)	–	–	.49	.53
Deviance (parameter estimated)	3123.94 (3)	2279.93 (6)	2276.89 (7)	2248.93 (14)
Increase in model fit (df)	–	844.01 (3)**	3.05 (1)*	27.07 (7)**

Estimator: Full Maximum Likelihood.

\*p < .1 using a two-tailed test.

\*\*p < .05 using a two-tailed test.

†p < .05 using a one-tailed test.

Table 5. Results of hypotheses testing using hierarchical linear modeling (differentiated IHIP).

Dependent variable: customer loyalty	Model 4: mental intangibility estimate	Model 5: physical intangibility estimate	Model 6: heterogeneity estimate	Model 7: inseparability estimate	Model 8: perishability estimate
<b>Level 1: customer-level</b>					
Intercept	2.75**	2.75**	2.75**	2.75**	2.74**
Satisfaction	.48**	.48**	.48**	.48**	.48**
Internal switching costs	.10**	.10**	.10**	.10**	.09**
External switching costs	.42**	.43**	.43**	.42**	.43**
<b>Level 2: industry-level</b>					
Direct effects of service characteristics					
Intangibility (mental)	.06*,†	.05*,†	.05*,†	.05*,†	.05*,†
Intangibility (physical)	-.03*,†	-.02	-.03	-.03	-.03*,†
Heterogeneity	.01	.01	.01	.01	.01
Inseparability	-.03	-.03	-.03	-.03	-.03
Perishability	-.08**	-.08**	-.09**	-.08**	-.08**
Interactions with informational SC					
Intangibility (mental) × internal SC	.07**	–	–	–	–
Intangibility (physical) × internal SC	–	.01	–	–	–
Heterogeneity × internal SC	–	–	.03	–	–
Inseparability × internal SC	–	–	–	.02	–
Perishability × internal SC	–	–	–	–	.05*,†
Interactions with external SC					
Intangibility (mental) × external SC	-.05**	–	–	–	–
Intangibility (physical) × external SC	–	.01	–	–	–
Heterogeneity × external SC	–	–	-.03*,†	–	–
Inseparability × external SC	–	–	–	-.03**	–
Perishability × external SC	–	–	–	–	-.04*,†

Estimator: Full Maximum Likelihood.

\*p < .1 using a two-tailed test.

\*\*p < .05 using a two-tailed test.

†p < .05 using a one-tailed test.

We first averaged the four service characteristics (IHIP) and then examined their combined moderating impact on the links of interest (Table 4). Results reveal a clear and consistent picture when assessing the drivers of customer loyalty. Examining Level 1 effects (see Model 1), customer satisfaction ( $\beta = .49$ ,  $p < .01$ ), external switching costs ( $\beta = .44$ ,  $p < .01$ ), and internal switching costs ( $\beta = .07$ ,  $p < .05$ ) influence customer loyalty directly. Differences in the coefficients for the two switching costs are significant ( $p < .01$ ), lending support to H1. Moreover, service characteristics have an effect that is marginally significant and negative ( $\beta = -.07$ ,  $p < .1$ ), which is also reflected in the marginally significant SC improvement of the model fit.<sup>17</sup>

Regarding the moderating effect of IHIP characteristics on the link between internal switching costs and customer loyalty (Model 3), a positive interaction effect was found ( $\gamma = .08$ ,  $p < .05$ ), meaning that for services higher in overall IHIP service characteristics, internal switching costs become more important. Hence, the analysis supports the amplifying effect suggested in H2a–d and H3a–d. Further, we find a buffering effect of the IHIP characteristics on the link between external switching costs and customer loyalty ( $\gamma = -.08$ ,  $p < .01$ ). This effect indicates that for services higher in service characteristics, external switching costs are less important, supporting H3a–d. Inclusion of the cross-level interaction effects also improves the model fit.<sup>18</sup>

To provide more nuanced recommendations about the use of switching costs as a retention strategy, we separately test each service characteristic on the links of interest (Table 5).<sup>19</sup> Across all tested models, we find support for mental intangibility and perishability directly affecting customer loyalty. Moreover, we find strong evidence in Models 4, 6, 7 and 8 for the buffering effect of mental intangibility ( $\gamma = -.05$ ,  $p < .05$ ), heterogeneity ( $\gamma = -.03$ ,  $p < .10$ ), inseparability ( $\gamma = -.03$ ,  $p < .05$ ), and perishability ( $\gamma = -.04$ ,  $p < .10$ ) on the link between external switching costs and customer loyalty. Hence, our analysis largely supports H3a–d. With respect to the amplifying effects of the characteristics on the internal switching costs–customer loyalty link, the analysis supports mental intangibility ( $\gamma = .07$ ,  $p < .05$ ) and perishability ( $\gamma = .05$ ,  $p < .10$ ), providing support for H3a and H3d but not for H3b and H3c.<sup>20</sup>

## Summary

### Summary of the Findings

Our study contributes to the literature by offering a better understanding of the effectiveness of switching costs as a retention strategy. Through a comprehensive meta-analysis with more than 33,000 customers and a large-scale cross-industry study capturing 51 service industries and 1,694 customers, we show that perceived switching costs indeed matter for customer loyalty but that their effectiveness depends on the type of switching costs and the service industry (Table 6).

Table 6. Summary of findings.

Hyp.	Prediction	Testing approach	Outcome and result
H1	External SC > internal SC	Meta study	Supported (ext > int)
		Multilevel analysis	Supported (ext > int)
H2a–d and H3a–d	IHIP × internal SC (+)	Meta study	Supported (+)
		Multilevel analysis	Supported (+)
H2a–d and H3a–d	Intangibility (mental) × internal SC (+)	Meta study	Supported (+)
		Multilevel analysis	Supported (+)
	Intangibility (physical) × internal SC (+)	Meta study	Supported (+)
		Multilevel analysis	Not supported (ns)
H2a–d and H3a–d	Heterogeneity × internal SC (+)	Meta study	Supported (+)
		Multilevel analysis	Not supported (ns)
H2a–d and H3a–d	Inseparability × internal SC (+)	Meta study	Not supported (ns)
		Multilevel analysis	Not supported (ns)
H2a–d and H3a–d	Perishability × internal SC (+)	Meta study	Supported (+)
		Multilevel analysis	Supported (+)
H3a–d	IHIP × external SC (–)	Meta study	Supported (–)
		Multilevel analysis	Supported (–)
H3a	Intangibility (mental) × external SC (–)	Meta study	Not supported (ns)
		Multilevel analysis	Supported (–)
	Intangibility (physical) × external SC (–)	Meta study	Supported (–)
		Multilevel analysis	Not supported (ns)
H3b	Heterogeneity × external SC (–)	Meta study	Supported (–)
		Multilevel analysis	Supported (–)
H3c	Inseparability × external SC (–)	Meta study	Supported (–)
		Multilevel analysis	Supported (–)
H3d	Perishability × external SC (–)	Meta study	Supported (–)
		Multilevel analysis	Supported (–)

## Contribution to the Literature and Managerial Implications

Our study supports prior research that suggests that switching costs represent a viable strategy for retaining customers in addition to satisfaction-oriented retention strategies. Our findings indicate a stronger effect of switching costs on customer loyalty compared to the findings of Pick and Eisend (2013).

Our research differentiates between internal and external switching costs. While internal switching costs, such as search, learning, and risk costs, are primarily rooted in an individual customer's expertise or skills, external switching costs are created by the provider, and include potential financial losses, as well as potential discomfort with breaking relationships with employees and with the brand. Further, internal switching costs involve greater uncertainty than external switching costs. Both studies indicate that the two types of switching costs differ in their relevance for binding customers. We find that the average effect of external switching costs on customer loyalty is stronger than that of internal switching costs. Apparently, individuals have a tendency to avoid certain losses.

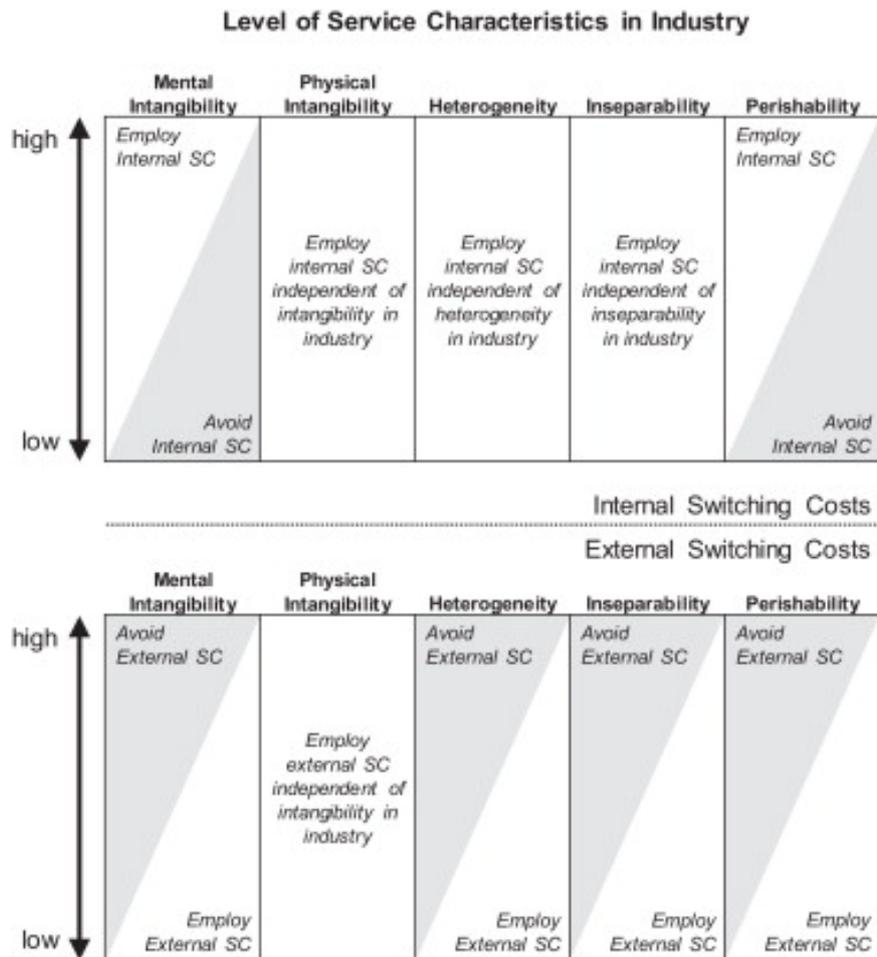
The literature suggests that internal switching costs are generally a negative source of constraint, forcing the customer to stay with the company (see Jones et al. 2007). Because procedural switching costs are positively correlated with important relationship outcomes such as customer satisfaction ( $r = .13, p < .01$ ), trust ( $r = .20, p < .01$ ) and word-of-mouth intention ( $r = .13, p < .01$ ),<sup>21</sup> perhaps customers do not feel forced to remain with the firm. Instead, customers may attribute these perceived switching costs to their own inability to switch. In our studies, both internal and external switching costs interact with the IHIP service characteristics. While there is an amplifying effect from internal switching costs, there is a buffering effect due to external switching costs, suggesting a difference in the effects of these constructs.

Additionally, our study provides empirical evidence that differences exist in the working mechanisms of different switching costs (Jones et al. 2007) and that these different switching costs also vary in their relevance across industries (Burnham, Frels, and Mahajan 2001; Jones, Mothersbaugh, and Beatty 2002). We find that internal switching costs vary in their relevance across service industries, noting that IHIP characteristics may determine whether customers can effectively use their expertise to help in overcoming anticipated internal switching costs. Literature suggests that further ways of learning exist—such as observation. Hence, a further service characteristic worth examining is the observability of other customers during service provision. We also find that higher levels of IHIP characteristics may produce a perceptual gap between customers and firms, thus influencing the effectiveness of external switching costs. It would be interesting to examine which efforts of a firm are most effective in reducing these perceptual gaps and whether and how they can increase the effectiveness of switching costs.

With respect to the service characteristics, we make two interesting observations. First, the correlation between mental and physical intangibility is just  $r = .415$  and in the HLM model, mental and physical intangibility show differential effects. It seems that for learning and the occurrence of perceptual gaps, mental intangibility is of greater importance than physical intangibility. Hence, managers interested in the effects of switching costs should differentiate between these characteristics. Second, while inseparability appears to produce perceptual gaps between managers and customers, this service characteristic does not appear to help the customer become more familiar with the service and therefore does not affect the internal switching costs–customer loyalty link. Future research should differentiate between active and passive involvement of the customer relative to the service process since active involvement may stimulate learning.

For retail service managers, our findings offer both good and bad news. The good news is that managers can still rely on switching costs as a binding strategy in these industries. The bad news is that this effectiveness varies, and firms have to examine the characteristics of the offered service in order to understand which type of switching cost is most effective (see Fig. 2). For instance, managers of a mall could develop different retention strategies for banking services compared to hairdressing and beauty services. For each of these services it has to be decided whether internal switching costs or external switching costs might be employed as the major retention strategy (Evanschitzky et al. 2012).

Fig. 2. Managerial implications on the use of internal/external switching costs in different service industries.



### Limitations and Research Issues

The current study sheds new light on switching costs and their effects on loyalty across different service industries. However, unanswered issues offer avenues for further research. First, this study examined a broad range of retail service industries, describing them with an established framework. The IHIP characteristics represent a strong conceptual relationship to perceived switching costs; however, the work on intangibility by Laroche, Bergeron, and Goutaland (2001) introduces another facet of intangibility, “generality of the service,” which describes the abstractness of the service offering, which could be examined in future research.

Second, we suggest developing scales for assessing the customer's perception of heterogeneity, inseparability, and perishability. Although our study employed an established approach for evaluating service industries, customers might evaluate these characteristics differently than the experts.

Third, using the IHIP characteristics, we found an important industry-level moderator of the switching costs–customer loyalty link. Additional moderators at the individual or relational levels (for instance, an individual's prior switching experience) could also provide useful avenues for future research.

Fourth, we conducted our multilevel study with 1,694 customers from 51 service industries in only one country and tested our hypotheses using a meta-study with data from numerous countries. Nonetheless, it is reasonable to assume that a country's service climate influences the findings, so replication of our study using different countries with different service climates is encouraged.

Fifth, our findings are generalizable across 51 retail service industries relevant for end-customers; future research should investigate other service industries (e.g., business-to-business customers) to generalize our findings.

Sixth, our conceptualization of external switching costs includes the potential loss of additional benefits when switching service providers, as suggested by Jones et al. (2007). This conceptualization does not include fines, fees, or penalties for switching, which would be interesting to examine in further research.

Finally, future studies could examine whether the positive effect of switching costs on customer loyalty are replicable when measuring actual purchase behavior, rather than purchase intentions only. A combination of attitudinal survey data with observable purchase behavior would allow researchers to gain a better understanding of the relevance of different types of switching costs for customer behavior.

## Executive summary

Retail and service managers often use switching costs to encourage customers to stay with the firm. Switching costs are defined as “the perceived economic and psychological costs associated with changing from one alternative to another” (Jones, Mothersbaugh, and Beatty 2002, p. 441). Since most retailers in consumer industries offer a wide variety of services (e.g., restaurants, e-commerce websites, financial services), important questions are whether switching costs are effective in retaining customers for the various retail services, and if so, which types are most effective. There are several general characteristics of services, including intangibility, heterogeneity, inseparability, and perishability (referred to as the IHIP characteristics) for which a better understanding of the interaction between these characteristics and switching costs would be useful.

We offer a two-dimensional conceptualization of perceived switching costs, differentiating between an internal and an external dimension. Internal switching costs are rooted in the individual who may feel that they lack the expertise, skills, or ability to succeed in switching. Internal switching costs capture those perceived costs associated with the information gathering required prior to changing service providers, the costs associated with evaluation of a new service provider, the perceived costs associated with the establishment of a new relationship, and the expected costs of learning the routines and procedures of a new provider. External switching costs are created by the provider in an effort to create additional benefits for the customer as a way to bind those customers to the firm. These switching costs capture the costs associated with specific benefits that could be lost if the customer switches from the current provider, the previous investments that could be lost if the customer switched, and customers’ emotional discomfort in the case of breaking a bond with a provider-brand and/or with customer contact employees.

Furthermore, we examine whether the effects of both switching costs on customer loyalty are contingent upon the four service characteristics. Particularly, we test (a) whether an interaction effect exists between service characteristics and switching costs, (b) the direction of this effect, and (c) whether the four service characteristics affect perceptions of switching costs equally.

Our study uses two data sets. Results indicate that the average effect of switching costs differs by type of costs (internal SC < external SC), and that service characteristics moderate the links between switching costs and customer loyalty. While the link between external switching costs and customer loyalty is weaker in industries high in the four service characteristics, we find the opposite moderating effect of service characteristics for the internal switching costs–loyalty link. Particularly, internal switching costs appear to be more effective for services that are higher in intangibility, heterogeneity, inseparability, and perishability, because the customer has fewer opportunities to develop service category expertise. By contrast, external switching costs appear to be more effective for services that are more tangible, homogeneous, separable, and nonperishable.

For retail service managers, our findings offer both good and bad news. The good news is that managers can still rely on the effectiveness of switching costs as a binding strategy in these industries. The bad news is that this effectiveness varies; thus, firms should examine the characteristics of the offered service in order to understand which type of switching cost is most effective.

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1. We acknowledge a broad view of retailing, in which retail is defined as the sale of goods and services from individuals or businesses to the end-user (Retail, 2013). Many traditional service organizations (e.g., telecommunications companies) are clearly retailers selling both products and services to consumers in retail stores. Thus, while the line between retailers and service providers is a bit blurry, using the term, retail service providers (i.e., firms focusing on selling goods or services to consumers), seems appropriate and will be generally applied throughout this article.
2. With respect to sunk costs, Jones, Mothersbaugh, and Beatty (2002, p. 443) argue that "... much of the time and effort required to establish and maintain a service relationship involves interpersonal dimensions."
3. In our second study, we also tested the dimensionality of the switching costs' constructs and found them to consist of two instead of three higher-order dimensions.
4. Since the literature offers several approaches for providing generalizations across service industries other than the IHIP framework (Lovelock, 1983 and Lovelock and Gummesson, 2004), we also tested several alternative classifications, but in our analyses, they did not show significant interaction effects.
5. Sometimes the terms "heterogeneity" and "variability" are used synonymously (see, for example, Möller, 2010 and Zeithaml et al., 1985). However, given that the term "IHIP" is an abbreviation for intangibility, heterogeneity, inseparability, and perishability, and is widely used in the retail service literature, we use the term "heterogeneity" in our research.
6. Journals included: Journal of the Academy of Marketing Science, Journal of Business Research, Journal of Consumer Research, Industrial Marketing Management, Journal of Marketing, Journal of Marketing Research, Psychology and Marketing, Journal of Retailing, and Journal of Service Research.
7. For the studies, we first categorized the operationalizations of switching cost measures based on our definitions, and found that most of these studies operationalize switching costs as either "internal switching costs" (55%), "external switching costs" (35%), or some mixed measure (10%). When the effect sizes used measures with mixed items, we excluded them from our further analyses.
8. Due to the suggestion of one reviewer, we use in both studies, Study 1 and Study 2, the same expert raters' assessment of the service industry to test the moderating effects of IHIP characteristics.

9. To evaluate inter-rater reliability, we calculated intra-class correlation (ICC) for each service characteristic: mental intangibility (ICC = .29), physical intangibility (ICC = .26), heterogeneity (ICC = .20), inseparability (ICC = .53), and perishability (ICC = .25). The ICC can be used to assess the consistency of responses among expert raters (Bartko, 1976 and Kozlowski and Hattrup, 1992). As the values can be classified as high compared to other studies that also employ ICC as a criterion (De Jong et al., 2004 and Homburg and Fürst, 2005), averaging the expert responses for each service characteristic is justified. Correlating the ratings with each other, we observe the highest correlation between inseparability and intangibility (mental) with  $r = .666$  and the lowest correlation between heterogeneity and intangibility (physical) with  $r = .027$ .
10. Before we derived the sample weights, we converted the reliability-adjusted  $r$ s to variance-stabilizing Fisher's  $z$  scores (Rosenthal, 1979 and Shadish and Haddock, 1994). After standard procedures (Shadish and Haddock 1994), we reconverted the  $z$  scores back to  $r$ s to report the sample-weighted reliability-adjusted  $r$  and the 95% CI.
11. We calculated simple confidence intervals as well as (a) bootstrap confidence intervals (Adams, Gurevitch, and Rosenberg 1997) in addition to (b) bias-corrected confidence interval to ensure that the sample size does not affect the calculated intervals.
12. Please note that the  $Q$  test of homogeneity is significant for both effects indicating the existence of some variance among effect sizes. Ideally for testing  $H_1$ , there would be no heterogeneity among effect sizes. Nonetheless, it is accepted in numerous meta studies to test hypotheses when heterogeneity is within a specific range (Geyskens, Steenkamp, and Kumar 2006). Regarding the quantitative analysis of correlations, Cortina (2003), who examined 1,647 meta-analyses, suggests that standard deviations of the corrected effect sizes between .05 and .265 were clearly within a gray zone for which analyses can proceed with a note of caution ( $SD_{r_{int}} = .17$ ,  $SD_{r_{ext}} = .18$ ).
13. Because studies with behavioral loyalty as a dependent variable are scarce, the matched data set does not include a single effect with behavior as dependent variable, and we did not control for this study characteristic.
14. Particularly, many services of the industries understood as service retailing in a broad sense are often offered in malls and shopping centers to customers or by retailers to generate additional sales. About 73 percent of the CPC industries have a strong connection to retailing and have the potential to be offered by larger retailers.
15. In addition, we calculated the mean levels of our variables of interest by industry, indicating their variance across industries (internal switching costs:  $M = 2.90$ ,  $SD = .40$ ; external switching costs:  $M = 2.50$ ,  $SD = .36$ ; satisfaction:  $M = 3.67$ ,  $SD = .28$ ; loyalty:  $M = 3.14$ ,  $SD = .33$ ).
16. We tested potential heteroscedasticity in the data by examining scatterplots of the residuals with no significant findings.
17. We ran a model including age, gender, education, and involvement as control variables. While age, gender, and income were insignificant, involvement displayed a significant positive effect on customer loyalty ( $\beta = .05$ ,  $p < .05$ ). The main effects of satisfaction, internal and external switching costs did not change similar to the direct and moderating effects of the IHIP characteristics. We also collected further industry data on the total sales of an industry, investments, gross surplus, #employees, #firms, sales per employee, sales per firm, gross margin, gross surplus per employee, and gross surplus per firm. None of these industry variables was significant. Finally, we examined whether switching costs impact customer satisfaction and find low to moderate correlations.
18. We also tested further services classification such as Lovelock's approach (1983) regarding its interrelationship with switching costs and the differentiation between rental and access services (Lovelock and Gummesson 2004). Substantive results remain unchanged when using alternative classification approaches.
19. We also tested a model which included all effects simultaneously. The results support all Level 1 effects. We also find support for 9 of 10 moderating effects on Level 2 showing the same effects in the separated model as in the full model. Only the perishability  $\times$  external SC effect is insignificant in the full model.
20. We tested the moderating effect of IHIPs on the satisfaction–loyalty link. We did not find a moderation effect of mental intangibility ( $\beta = -.001$ ,  $p > .10$ ), physical intangibility ( $\beta = .005$ ,  $p > .10$ ), and inseparability ( $\beta = .001$ ,  $p > .10$ ). Instead, heterogeneity ( $\beta = -.026$ ,  $p < .10$ ) and perishability ( $\beta = -.027$ ,  $p < .10$ ) moderated the satisfaction–loyalty link.
21. We used established measures for trust (Morgan and Hunt 1994) and word-of-mouth intention (Lam et al. 2004). Measurement properties were good. Similarly, we find that external switching costs display positive correlations with satisfaction ( $r = .41$ ,  $p < .01$ ), trust ( $r = .49$ ,  $p < .01$ ), and word-of-mouth intention ( $r = .48$ ,  $p < .01$ ).