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# Influences of customer participation and customer brand engagement on brand loyalty

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### **Abstract**

**Purpose** – Value co-creation assumes that customers take active roles and create value together with firms. This paper aims to investigate the short-and long-term effects of customer participation on brand loyalty, through brand satisfaction. Participation effects were also examined among social media-using customers with the additional explanatory factor of brand engagement.

**Design/methodology/approach** – Two studies were conducted among insurance customers: a cross-sectional study using a nationwide sample (N = 954) and a subsample of social media users (N = 145) to examine short-term effects, and a longitudinal study using data from three assessment timepoints (N = 376) to enable empirical long-term testing.

**Findings** — The cross-sectional study showed positive short-term effects of customer participation on brand loyalty, mediated by satisfaction. Among customers using social media, positive participation effects gained from brand engagement strengthened brand satisfaction. The longitudinal study did not show similar positive long-term effects of customer participation.

**Practical implications** – These findings help deepen service marketers' understanding of the possible short-term effects of customer participation and customer brand engagement, and caution them to not expect that customer participation will have long-term positive satisfaction and loyalty effects

**Originality/value** – This research provides interesting short- and long-term findings, due to the complementary cross-sectional and longitudinal study designs.

Keywords Brand satisfaction, Customer participation, Brand loyalty, Customer brand engagement

Paper type Research paper

Service firms continually strive to maintain long-term relationships with customers and to understand the factors that build and sustain brand loyalty. From a value co-creation perspective, which recognizes customers' active participatory roles in value creation (Ranjan and Read, 2014; Pralahad and Ramaswamy, 2004; Jaakkola and Alexander, 2014), customers' participation (Nysveen and Pedersen, 2014) and engagement (Brodie et al., 2011b; Hollebeek, 2011a) can be prioritized to ensure their loyalty. Firms considering customers as value co-creators view them as partners or co-producers, instead of "external elements" (Fuat Firat et al., 1995), as they engage and participate in specific interactions and activities. Thus, interaction manifests through participation (Grönroos and Ravald, 2011) and engagement (Zhu, 2006).

Modern technology plays a crucial role in supporting the manner in which firms and customers interact (Flores and Vasquez-Parraga, 2015). Social media comprise a major arena in which customers participate in co-production, and which supports the development of collaborative customer relationships (Maklan and Klaus, 2011). Engagement is

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Journal of Consumer Marketing 33/5 (2016) 332–342 © Emerald Group Publishing Limited [ISSN 0736-3761] [DOI 10.1108/ICM-04-2015-1390] considered to be a particularly important phenomenon in social media (e.g. chats, blogs, videos and brand communities) (Brodie et al., 2011a; Fournier and Avery, 2011; Jahn and Kunz, 2012; Dessart et al., 2014). The interactive nature of social media gives service firms the opportunity to become more customer-centric, thereby encouraging customer participation (Kaplan and Haenlein, 2010; Hoffman and Novak, 2012) and engagement in certain brand activities (Schamari and Schaefers, 2015). Thus, social media complement brands' physical-world counterparts and serve as platforms for customers' sharing of feelings, thoughts and content (Schau et al., 2009). An increasing number of service brands invests time and marketing resources in the organization of social media-based brand communities and Facebook brand pages (McAlexander et al., 2002; Shankar and Batra, 2009; Laroche et al., 2012; Vries et al., 2012), positively encouraging engagement (Algesheimer et al., 2005; Brodie et al., 2011b; Hollebeek, 2011a, 2011b), in the hope that customers will participate. Previous studies have investigated customer preferences for online versus offline interaction (Frambach et al., 2007), customer satisfaction and loyalty in online versus offline contexts (Shankar et al., 2003), and customer participation in virtual brand communities (Casaló et al., 2008) and service recovery using online

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platforms (Dong et al., 2008). However, empirical research on brand loyalty effects of the participation of customers using and not using social media, and that incorporating the effects of customer brand engagement (CBE) in social media, is lacking. Thus, in relation to insurance firms' Facebook brand pages, this research explored short- and long-term effects of customer participation on brand loyalty through the bridging element of brand satisfaction; it also investigated whether CBE among social media users explained customer participation, further enhancing brand satisfaction and brand loyalty.

Given the high cost of attracting new customers, service firms must increasingly reinforce established customer ties (Casaló et al., 2007). The insurance sector is known to have low switching barriers; 17 per cent of the customer base switches insurance providers each year (Lavik and Schjøll, 2012), which makes it imperative for insurance firms to gain knowledge about factors that build and sustain brand loyalty. Brand loyalty denotes an intended behavior in relation to the brand and/or its services. If real alternatives exist or switching barriers are low, a service brand will discover its inability to satisfy customers via two feedback mechanisms: exit and voice (Hirschman, 1970). This paper considers brand loyalty as the expression of individual preferences - an attitudinal concept (e.g. intentions to stay loyal, recommend the brand, and choose the brand again) (Jacoby and Chestnut, 1978; Andreassen and Lindestad, 1998).

Previous studies of the loyalty effects of customer participation have used cross-sectional data (Casaló et al., 2007; Nysveen and Pedersen, 2014). Although marketing scholars frequently conduct cross-sectional studies, several researchers have argued that longitudinal studies are more trustworthy, as they more precisely characterize long-term effects (Brodie et al., 2011b; Hollebeek, 2011a, 2011b). Longitudinal studies enable consideration of auto-correlational (i.e. historical) effects, which is expected to weaken between-variable effects in comparison with cross-sectional studies (Rindfleisch et al., 2008). In the present empirical research, cross-sectional and longitudinal studies were conducted to investigate observed effect patterns over short- and long-term periods. The hypotheses were that customers' willingness to participate over time would affect their brand satisfaction positively, thereby affecting their subsequent loyalty, in the short and long terms.

This paper proceeds as follows. First, it presents a theoretical framework, describing the concepts of customer participation and CBE, and the study hypotheses. Next, the methodological approaches and results of the cross-sectional and longitudinal studies are described. In the discussion section, findings from the two studies are compared and interpreted, with consideration of their implications and limitations, and suggestions for future research are made.

# Conceptual background

# Customer participation

Customer participation specifies the degree to which a customer puts effort and resources into the process of production (Dabholkar, 1990), thus taking an *active part* in consuming and producing value (Nysveen and Pedersen, 2014). It includes the physical and mental inputs required for co-production (Flores and Vasquez-Parraga, 2015).

Co-production consists of direct and indirect co-working between a firm and its customers, or customers' participation in product design (Lemke et al., 2011). Customer participation might be evidenced in a facilitatory role at the periphery of a firm's processes (Auh et al., 2007) or in an active role through the application of knowledge and sharing of information with the firm (Ranjan and Read, 2014). Following Ranjan and Read (2014), customer participation should be considered a component of co-production. In co-production, the firm is the predominant locus of process control (Vargo and Lusch, 2004, 2008). Etgar (2008) defined co-production as customers' participation in one or more activities in a firm's network chain (design, production, delivery, executing use) and referred to the co-production phase of value co-creation as the activation stage. This stage, which is the focus of this research, is where customer participation via co-production occurs and results in the production of the core offering. Similarly, Auh et al. (2007) defined co-production as customers' cooperative participation in service creation and delivery, and Chen et al. (2011) defined it as constructive participation in the service process.

### Customer brand engagement

The concept of engagement has received considerable attention in several academic disciplines (e.g. educational psychology and organizational behavior), but only recently in the field of marketing (Gambetti and Graffigna, 2010; Hollebeek, 2011a, 2011b). In recent marketing and service research, CBE was found to be a core explanatory element in online brand communities (Brodie et al., 2011a), the emergence of social media networking sites (Jahn and Kunz, 2012) and, particularly, social media (e.g. Facebook)-based brand communities (Gummerus et al., 2012; Laroche et al., 2012; Habibi et al., 2014). As social media use has been added to firms' marketing and brand-building activities (Kaplan and Haenlein, 2010), attracted by the large number of users, firms have begun to create Facebook brand pages (Gummerus et al., 2012) to encourage CBE. Following Brodie et al. (2011b) and Hollebeek et al. (2014), CBE is considered in this study to be a context-dependent, psychological construct, reflected by emotional, cognitive and intentional states generated by interactive experiences underlying behavioral interactions (e.g. in social media). After Hollebeek et al. (2014), emotional CBE is considered to be a customer's degree of positive brand activity-related affect, and cognitive CBE is conserved to be his/her level of brand activity-related thought processing and elaboration. Intentional CBE refers to a customer's interest in spending energy, effort and time on a brand activity. Brodie et al. (2011a) highlighted the fluctuating nature of CBE state dimensions. Intensity levels of cognitive, emotional and intentional states can change rapidly, from one moment or situation to another, in engagement processes (Hollebeek, 2011a).

# Hypotheses

The disconfirmation-of-expectation paradigm (Oliver, 1980) holds that customer loyalty (e.g. intention to stay loyal, willingness to recommend a brand to others) is a function of customer satisfaction. Thus, when customers realize that their patronage has been a good choice and that the brand offers

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good solutions, they likely intend to stay loyal to the brand in the future. They are also more willing to recommend the brand to other people. From a value co-creation perspective (Ranjan and Read, 2014), customers' participation in co-production is argued to help to build brand loyalty in this study. To encourage customer participation, a firm creates platforms for value creation that suit customers' unique interests, thereby enhancing brand satisfaction personally and subjectively and affecting brand loyalty Co-production has been found to be a positive predictor of attitudinal loyalty (Auh et al., 2007; Hosseini, 2013) and satisfaction (Ranjan and Read, 2014; Flores Vasquez-Parraga, 2015). When customers participate in co-production activities, they tend to share their new ideas, suggestions and problems with a service firm (Chen et al., 2011), and thus are expected to become more satisfied due to their personal investment (Cermak et al. 1994). Ranjan and Read (2014) argued that co-production is a cooperative act of satisfaction, as customers outlay resources in this process. In this paper, customers who obtain more customized services through brand activity participation are argued to be more satisfied (Bendapudi and Leone, 2003), with competitors facing more difficulty in attracting them. The short- and long-term effects of this process were tested using the following hypothesis:

 Through brand satisfaction, customer participation positively affects brand loyalty.

Chan et al.'s (2010) findings provide empirical support for the argument that customers' involvement beyond good/service consumption can add value for them. Similarly, Van Doorn et al. (2010) argued that customer engagement goes beyond transactions, with positive brand/firm and customer consequences. Little research has investigated relationships of CBE to other concepts, but CBE appears to positively affect brand satisfaction (Van Doorn et al., 2010; Hollebeek, 2011a) and brand loyalty (Brodie et al., 2011a; Hollebeek, 2011a, 2011b). The relationship between CBE and customer participation remains unclear. Sawhney et al. (2005) argued that customer engagement in virtual communities comprised customer participation in innovation, and Sashi (2012) proposed an engagement cycle in social media, in which customer connection and interaction are outcomes of engagement. Other researchers have suggested that customer participation is an antecedent of CBE (Nysveen and Pedersen, 2014; Ramaswamy and Gouillart, 2010; Vivek, 2009), with engagement resulting from customers' efforts and resource integration in co-production processes. Wirtz et al. (2013) argued that customer expertise is a moderator between brand-related social and functional drivers and online brand community engagement.

Leaning toward the view of Brodie *et al.* (2011a) by considering CBE to reflect inherent motivational, emotional, cognitive and intentional states, with CBE intensity based on brand stimuli (e.g. activities), CBE investment in social media-based brand activities is argued here to generate participation (willingness to consume and produce value, e.g. sharing ideas, participating in valuable discussions). For example, customers with greater emotional attachment to a brand will be more motivated to participate in brand activities

(Auh et al., 2007). However, customers' engagement with an object (e.g. a brand) is assumed to fluctuate frequently (Brodie et al., 2011a), thus evoking short-term positive effects. In the short term, customers who engage and participate in brand activities will be satisfied (Chan et al., 2010; Flores and Vasquez-Parraga, 2015) and loyal (Hollebeek, 2011b). In interactive social media, customers who enter positively valenced engagement states are assumed to participate willingly in joint activities, leading to brand satisfaction and loyalty. In this paper, customers' participation is argued to generate satisfaction with their own performance (individual value) and with the engagement object (e.g. brand or brand activity; relational value), with the positive outcome of strengthened brand loyalty. This extensive affect chain is expressed in the following hypothesis, tested in the cross-sectional study:

H2. In social media, CBE will positively affect customer participation, generating positive brand satisfaction and loyalty effects.

# Study 1

### Design, sample and measurement

This cross-sectional study was conducted in April 2012 in partnership with Norstat (the largest online panel data provider in Norway) using a nationwide online panel survey of insurance customers aged ≥ 15 years. Respondents were rewarded through the Norstat system. To make the sample representative, Norstat controlled recruitment according to gender, education, income and non-disclosed customer-related variables. Participating customers of seven insurance brands filled out questionnaires with reference to the brand with which each had a relationship, and those reporting use of Facebook as a customer channel answered questions regarding their relationships with the brands in that context. Included insurance brands had used Facebook brand pages as customer channels since 2011. Customers had been invited to express their preference for the brands by "liking" them; content on the firms' Facebook brand pages was then posted automatically to these customers' Facebook news feeds, where they were expected to engage emotionally, cognitively and through behavioral intentions.

Self-reported questionnaire items measured latent constructs using modifications of previously used scales (Appendix). Customers rated their willingness to participate with the brand [four items reflecting customer participation in creating value together with a service brand (Nysveen and Pedersen, 2014; Chan et al., 2010)]. CBE in social media was measured using a three-dimensional scale reflecting states of emotional, cognitive and intentional CBE [Solem and Pedersen (2016), based on the work engagement scale of Rich et al. (2010)]. Item wording was amended slightly for the Facebook brand page (reflecting brandcustomer interactivity), following Reitz (2012) and Casaló et al. (2010). The questionnaire also assessed brand satisfaction [five items reflecting overall satisfaction, meeting of expectations (Fornell, 1992), and acceptability of brand choice (Oliver, 1980; Gottlieb et al., 1994)] and brand loyalty [four items reflecting future loyalty and continued patronage (Selnes, 1993; Brakus et al., 2009; Wagner et al., 2009), recommendation to others (Brakus et al., 2009) and repeat selection (Selnes, 1993)].

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Responses were structured by a seven-point scale ranging from "totally disagree" to "totally agree".

A total of 964 invited panel members completed the questionnaire. Ten "outliers" showing no variance in CBE were excluded, resulting in a final sample of 954 respondents, 145 (15 per cent) of whom reported using Facebook in relation to the insurance brands. Gender was distributed evenly in the sample, 59 per cent of respondents were aged > 45 years, 66 per cent were well educated and 47 per cent had household incomes > 600,000 NOK (Table I).

### Reliability and validity testing

The data were examined through confirmatory factor analysis with maximum likelihood estimation (Bollen, 1989) using IBM SPSS AMOS 21. To assess nomological validity, concept positions were tested using a measurement model for the total sample of respondents. Convergent and divergent validity were assessed following Fornell and Larcker (1981a, 1981b).

Table I Sample demographics from the cross-sectional study

Sample demographics (N = 954)	(%)
Gender	
Male	54.4
Female	45.6
Age	
15-24	9.7
25-34	14.0
35-44	17.2
45-54	17.9
55-64	19.2
64-	21.9
Education	
Primary	5.2
Secondary	28.6
University/College ≤ 3 years	30.8
University/College ≥ 3 years	35.3
Household income (in NOK)	
<200,000	4.9
200,000-399,000	15.7
400,000-599,000	23.4
600,000-799,000	18.1
>800,000	28.9
No response	8.9
Using social media	
Using Facebook in relation to brand	15.2

The estimated measurement model for the total sample (N=954) showed a reasonably good fit  $[\chi^2/\mathrm{df}=4.90]$ , comparative fit index (CFI) = 0.98, root mean square error of approximation (RMSEA) = 0.064]. All constructs showed acceptable reliability (Cronbach's  $\dot{a}>0.7$ ). Brand satisfaction and brand loyalty showed acceptable convergent validity, whereas customer participation did not [Cronbach's  $\dot{a}<$  average variance extracted (AVE) > 0.5], indicating that the items did not optimally reflect the concept. No discriminant validity issue was observed, except for brand loyalty (maximum shared variance > AVE; Table II). The square root of AVE for brand loyalty was lower than its correlation with brand satisfaction.

As the strong correlation between brand satisfaction and brand loyalty may have been due to common method bias, the marker variable technique (Lindell and Whitney, 2001; Malhotra *et al.*, 2006) was applied. A theoretically unrelated two-item variable ("Facebook can be used to read what other people are writing", "Facebook can be used to achieve personal gains"), structured by a seven-point Likert scale anchored by "totally disagree" and "totally agree", served as a marker. The two lowest correlations with the marker (r = 0.15 and r = 0.12) fell below the suggested 0.20 threshold for problematic method variance (Malhotra *et al.*, 2006). All correlations in the model remained significant, with signs unchanged. These results indicated that method bias was not a significant risk in this data set.

### Hypothesis testing

The hypotheses were tested using structural equation modeling (SEM; IBM SPSS AMOS 21), following the procedure of Bollen and Long (1993). H1 was tested using data from the 809 respondents who did not use Facebook in relation to the brands. This model showed acceptable fit ( $\chi^2/df = 4.70$ , CFI = 0.98, RMSEA = 0.068; Figure 1). Customer participation affected brand satisfaction positively ( $\beta = 0.27$ ), and brand satisfaction affected brand loyalty positively ( $\beta = 0.85$ ). Customer participation had no significant direct effect on brand loyalty. These results supported H1.

Possible different effects of customer participation were controlled by introducing brand as a control variable (covariate) in the analysis to test direct effects on brand satisfaction and loyalty. All models yielded insignificant results, except the model for one brand ( $\chi^2/\mathrm{df}=4.37$ , CFI = 0.98, RMSEA = 0.065), which showed that brand negatively affected brand satisfaction ( $\beta=-0.11$ ). Comparison of results from this model and the original model showed that the effect of customer participation on brand satisfaction remained positive, although marginally lower ( $\beta=0.26$ ), and the effects of customer participation and brand satisfaction on brand loyalty were unchanged.

**Table II** Reliability, validity and the correlation matrix for the total sample (N = 954)

Constructs	α	AVE	MSV	ASV	Customer participation	Brand satisfaction	Brand loyalty
Customer participation Brand satisfaction	1.01 0.95	1.04 0.78	0.06 0.77	0.06 0.41	1.02 0.24***	0.88	_
Brand loyalty	0.90	0.69	0.77	0.41	0.23***	0.88***	0.83

**Notes:**  $\alpha$  = Cronbach's alpha; AVE = average variance extracted; MSV = maximum shared squared variance; ASV = average shared squared variance; the bold values on the diagonal of the matrix represent the square root values for each AVE; significant covariances: \*p < 0.1; \*\*\*p < 0.05; \*\*\*p < 0.01; N = 954

brand interaction. The effect of brand satisfaction on brand

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# Testing for a mediating effect

The assumed mediating effect of brand satisfaction on the relationship between customer participation and brand loyalty was further examined using a bootstrap resampling method. Bootstrapping is not bound by the assumptions of normal theoretical approaches (e.g. the Sobel test), and thus characterizes indirect effects more accurately (Hayes and Preacher, 2013). An indirect effect is considered to be significant when the bootstrap confidence interval (CI) excludes zero. In the present study, a 95 per cent CI for the indirect effect was obtained using 5,000 bootstrap re-samples. The results confirmed that brand satisfaction significantly mediated the relationship between customer participation and brand loyalty (95 per cent CI = 0.15-0.25).

### Incorporation of customer brand engagement in social media

To test H2 with data from customers who engaged with the brands in social media, CBE was incorporated as a predictor variable. Composite (aggregated average) scores were used for the multidimensional CBE concept, following Brakus et al. (2009). Total, rather than individual dimensional, effects of these variables were thus examined. The SEM model showed acceptable fit ( $\chi^2/df = 1.63$ , CFI = 0.98, RMSEA = 0.066; Figure 2).

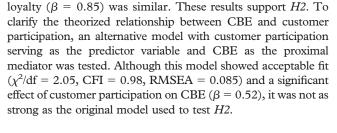
In this subsample, CBE positively affected customer participation ( $\beta = 0.60$ ), which positively affected brand satisfaction ( $\beta = 0.49$ ). These effects were substantially greater than observed for customers with no social media

**Figure 1** H1 test results from the cross-sectional study



Notes: All coefficient values are standardized. Significance level: \*\*\*p < 0.001, \*\*p < 0.01, \* p < 0.05; N = 809;  $x^2/df = 4.70$ ; CFI = 0.98; RMSEA = 0.068

Figure 2 H2 test results from the cross-sectional study



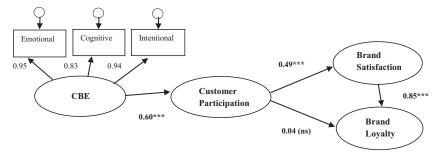
# Study 2

This longitudinal study was conducted to test H1. Longitudinal analysis allows one to account for potential common-method variance (Bijleveld et al., 1998; Griffith et al., 2006; Rindfleisch et al., 2008; Ployhart and Vandenberg, 2011). It also shows auto-correlation effects, reducing between-variable effects while strengthening the validity of effect patterns (Menard, 1991). Thus, Study 2 was expected to provide similar, but weaker, support for H1 compared with Study 1. The effect of customer participation subsequent to brand satisfaction was assessed, with brand loyalty serving as the outcome (Jap and Anderson, 2004) and with the incorporation of historical (auto-correlational) effects.

# Design and sample

Norstat collected data from the same insurance customers over an 18-month period in autumn 2011 (T<sub>0</sub>), spring 2012 (T<sub>1</sub>, data set used in Study 1), and spring 2013 (T<sub>2</sub>) using the methodology and measures described for Study 1. The three-wave structure was selected according to the recommended minimum number of repeated measures (Chan, 1998 in Ployhart and Vandenberg, 2011), and to ensure validity and avoid variance (Vandenberg, 2002). The unequal intervals between surveys were planned, together with the insurance firms' marketing managers, to ensure that they would appropriately reflect changes (Gollob and Reichardt, 1991) and to capture the predictive effects of customer participation and brand satisfaction on loyalty, as described for mediational models (Cole and Maxwell, 2003).

Respondents to the first survey were asked by email to complete additional surveys at T1 and T2. To account for a dropout rate of up to 75 per cent between To and To, a much



**Notes:** All coefficient values are standardized; the concept of CBE is presented by dimensions. Significance level: \*\*\*p < 0.001; \*\*p < 0.05; N = 145;  $x^2/df = 1.63$ ; CFI = 0.98; RMSEA = 0.066

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# **Appendix**

Table AI Concepts and measures

Concepts	Dimensions and measures	Item loading T <sub>o</sub>	Item loading T <sub>1</sub>	Item loading T <sub>2</sub>
Customer	I often express my personal needs to (brand)	0.84	0.85	0.85
participation	I often suggest how (brand) can improve their services	0.90	0.92	0.92
	I participate in decisions about how (brand) offer its services	0.90	0.91	0.90
	I often find solutions of my problems together with (brand)	0.83	0.81	0.85
CBE	Emotional engagement			
	I am enthusiastic in relation to (brand) at (brand)'s Facebook page		0.93	
	I feel energetic in contact with (brand) at its Facebook page		0.94	
	I feel positive about (brand) at its Facebook page		0.86	
	Cognitive engagement			
	At (brand)'s Facebook page, my mind is very focused on (brand)		0.78	
	At (brand)'s Facebook page, I focus a great deal of attention to (brand)		0.80	
	At (brand)'s Facebook page, I become absorbed by (brand)		0.91	
	Intentional engagement			
	I exert my full effort in supporting (brand) at its Facebook page		0.78	
	I am very active in relation to (brand) at its Facebook page		0.92	
	I try my hardest to perform well on behalf of (brand) at its Facebook page		0.92	
Brand satisfaction	Overall, I am satisfied with (brand)	0.91	0.90	0.92
	Being a customer of (brand) has been a good choice for me	0.92	0.91	0.91
	(brand) has lived up to my expectations	0.91	0.92	0.94
	(brand) is concerned with what solutions that is the best for me	0.87	0.80	0.79
	(brand) offers me good solutions	0.93	0.91	0.92
Brand loyalty	I intend to stay loyal to (brand) in the future	0.90	0.89	0.89
	I intend to stay on as a customer of (brand) for the next three years	0.87	0.84	0.88
	I intend to recommend (brand) to other people	0.87	0.84	0.82
	If I had to choose again I would still choose (brand)	0.92	0.89	0.89

**Notes:** Item wording and standardized coefficients from the confirmatory factor analysis (CFA); loadings are based on the customer sample in the longitudinal study (N = 376) for customer participation, brand satisfaction and brand loyalty; for CBE, the factor loadings are based on the cross-sectional study conducted at  $T_1$  (N = 145)

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