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Consumer-company Identification: Development and Validation of a Scale

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ABSTRACT

Consumer-Company Identification is a relatively new issue in the marketing academia. Bhattacharya and Sen (2003) explored the Social Identity theory and established Consumer-Company Identification as the primary psychological substrate for deep relationships between the organization and its customers. In the present study a new instrument was constructed and validated that permits the empirical verification of the phenomenon described by Bhattacharya and Sen (2003). The scale validated in the present study is the first to embrace the idiosyncrasies of the identification between consumers and organizations. The process was conducted through 3 independent data collections. The first one was collected using literature search and in-depth interviews with 12 undergraduate students and bachelors from different professional fields. The second data base was obtained from a survey of 226 undergraduate students from 3 universities in 2 big Brazilian cities. This data base was used for purification purposes using Explanatory Factorial Analysis. Finally, the Structural Equation Modeling technique was applied to analyze a third data base composed of 387 observations collected from the same 3 universities of the second study. The results confirm the content, convergent and discriminant validity of the new scale proposed.

Key words: consumer-company identification; confirmatory factor analysis; consumer behavior.

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INTRODUCTION

The management of corporate identity has grown in importance due to a number of factors, including increased product life cycle, growing competition, globalization, public expectations regarding corporate social responsibility and the fall of barriers that separated organizations from the external environment (Balmer & Gray, 1999). This tendency has developed over approximately the last 15 years, with corporate identity becoming increasingly valued as a prominent paradigm linked to the strategic administration of the enterprise and appearing as a central issue (Balmer & Gray, 1999). It is important to highlight that initial studies dealt with the question of the causes and effects of the identification of employees with the company as a focal point (Ashforth & Mael, 1989).

Large multinational corporations are among the pioneers in the administration of their identity, be it with the aim of increasing the acceptance of their brand name among Europeans, as in the case of Hyundai, or in order to improve their damaged image as in the case of Wal-Mart (Creamer & Frazier, 2006; Stein & Mcveigh, 2006).

In an article published in the Journal of Marketing in 2003, Bhattacharya and Sen (2003) established consumer-company identification as the first psychological substrate that results in deep, committed and significant relations between customers and organizations (Bhattacharya & Sen, 2003). In search of subsidies in the theories of social identity (Grubb & Grathwohl, 1967; Tajfel & Turner, 1982) and Organizational Identification [OI] (Ashforth & Mael, 1989; Bergami & Bagozzi, 2000; Whetten & Godfrey, 1998), Bhattacharya and Sen (2003) offer a consistent theoretical body that explains the conditions in which individuals have greater propensity to identify with a company and the bases and consequences of this activity.

The authors suggest that empirical testing is the next logical step in the validation of their model and its propositions. Because of the number of constructs present in their archetype and the complexity of the relationship among them, the authors suggest that one or two objects be tested prior to testing the full set of propositions.

Moreover, the authors point out that there are no scales for many of the constructs, and even when such scales exist they are in need of revision and adaptation in order to allow for this new phenomenon, so as to ensure greater validity for further research. Accordingly, the present study, in accordance with the suggestions made by Bhattacharya and Sen (2003), aims to develop a scale that measures the cognitive component of consumer identification with the company.

Firstly, the conceptual bases of the theory of social identity are presented, following which an effort is made to arrive at a definition of the consumer-company identity construct. This theoretical development will be responsible for sustaining the phase of item generation. Following that, two consecutive collections are carried out in order to assess the reliability and validity of the scale. The study rounds off with a discussion and implications.

THE CONCEPTUAL BASES OF THE THEORY OF SOCIAL IDENTITY

The study of people, their behavior and attitudes have been the object of study in the area of psychology since the 19th century, since when great attention has been paid by academics to the search for the motives that lead people, of their own free will, to form groups and social subsets. In these studies, researchers, while agreeing that the term self signifies the totality of thoughts and feelings that refer to him or herself as an object of thought, have identified different paradigms for defining self-concept (Reed, 2002).
One of the most widely appreciated approaches dedicated to the study of the formation of the concept of self - the theory of social identity – highlights the observation of cognitive associations made by individuals in an endeavor to define their identity (Sirgy, 1982). This effort at affirming the continuity of their self-concepts over time and space, seeking to differentiate themselves from others (Whetten & Godfrey, 1998), suggests that social identity is constructed through interpretations and practices that have the purpose of affirming and increasing the coherence of their self-concepts. This occurs when individuals seek acceptance from some groups and distance from others (Ashforth & Mael, 1989; Whetten & Godfrey, 1998).

In applying social identification in the field of organizations, Ashforth and Mael (1989) suggest that people can be classified into various social categories and that different individuals make use of different categorization models. According to the theory of social identity, self-concept is formed by personal identity, which includes idiosyncratic characteristics, and social identity, which encompasses the salient characteristics of the group to which the individual belongs or would like to belong. The process of social identification is resumed, therefore, in the perception of singularity with or belonging to some human group (Ashforth & Mael, 1989; Reed, 2002). Using the theory of social identification as a foundation, a definition of the construct of consumer identification with the company is proposed below, establishing the limits within which this research will be placed.

**Consumer Identification with the Company – Definition of the Construct**

The term identification was coined in the 1950s by Foote, who defined it as appropriation of and commitment to an identity (Bergami & Bagozzi, 2000). This commitment is translated into interests shared between A who identifies him/herself with B (Burke, 1950), or an increase in the sense of intra-group oneness and the corresponding sharing of the objectives and successes of the group (Tolman, 1943). This idea makes possible the appropriation of the term and of its meanings by those involved in the study of business organizations. A great amount of such studies conceive Organizational Identification [OI] as an attraction or desire to maintain a stable emotional relationship with the identified object (O’Reilly & Chatman, 1986) or as the association established between an individual and the organization with which the individual is affiliated (Cheney, 1982).

However, despite such contributions, the derived definition of the Theory of Social Identification [TSI] presented the most developed theoretical-conceptual framework built up in the area of organizational research (Riketta, 2004). Hence, Bhattacharya and Sen (2003), in a rhetorical effort at establishing the foundation of their theory of identification, used studies that approached organizational identification [OI] in the light of TSI.

A meta-analysis conducted by Riketta (2004), with around 80 pieces of academic research that looked into OI within the TSI research lines, presented identification as a cognitive construct defined as the congruence between the identity of an individual and that of a company, as the feeling of ownership and belonging in relation to an organization, or as the process of incorporation of the attributes of the organization into the self-concept.

Taking the work of March and Simons as a starting point (Riketta, 2004), Bergami and Bagozzi (2000), argue that the most developed conceptualization of identification in institutions analyzes the phenomenon as a form of social identification where the individual sees himself as a member of a social entity – the organization. This phenomenon occurs through a cognitive process of classification, where each individual forms self-categories of organizational affiliation and similarities of himself with other members of the organization (Bergami & Bagozzi, 2000). This action, carried out at the corporate level, is widely recognized as being fundamental in the construction of identity and self-concept and occurs by means of comparisons made by the individuals of their own defining characteristics with those that constitute the business image (Ashforth & Mael, 1989; Dutton, Dukerich, & Harquail, 1994; Pratt, 1998).
Other authors suggest that identification also occurs by means of cognitive links between consumers and companies (Aaker, 1996; Swanson & Davis, 2006). Along the same lines and citing the works of Pratt (1998) and Scott and Lane (2000), Bhattacharya and Sen (2003) argue that, in an era of corporative influence and unprecedented consumerism, some companies represent and offer attractive social identities that help individuals satisfy their needs for self-definition.

This theoretical development makes it possible to characterize consumer-company identification as a cognitive state of self-categorization existing between the consumer and the corporation (Bhattacharya & Sen, 2003) that encompasses: (1) feelings of solidarity in relation to the institution and support for the company, (2) the sharing of characteristics with the company and (3) the sharing of characteristics with other consumers of the company. Having presented the theoretical background that guides this work, we will now enumerate all the steps taken to develop a scale that measures the cognitive component of consumer identification with the company.

**SCALE DEVELOPMENT**

The methodology adopted for this study is based on the writings of Churchill (1979) and Rossiter (2002). The first step in the development of the scale was presented in the previous sections, which provide the fundamentals for the definition of the construct under debate. The second step in this process is the generation of the items for the scale, later purified and validated through the application of two separate collections carried out in the first months of 2007.

**First Phase – Item Generation**

The process of item generation began with a search for previously developed instruments that might be of use in measuring the phenomenon consumer-company identification. As scales encompassing the object of the study were not found, it became necessary to examine scales developed for other areas, but that might be adapted to the objective of the present study.

For this research effort, the following studies and respective developed scales were chosen as potential sources because they were the most frequently used in studies involving the constructs organizational identification and consumer-company identification: Bergami and Bagozzi (2000), Cheney (1982) and Mael (1988).

The first scale was discarded because of its lack of maturity and, as it is a visual scale, the impossibility of validating it for the consumer-company identification construct in the absence of a leader scale. The second was rejected due to its low discriminant validity in relation to other constructs, such as organizational commitment and satisfaction at work scales (Oviatt, 2002; Riketta, 2004), as well as for generating relatively heterogeneous outcomes (Riketta, 2004). The scale developed by Mael (1988) was considered suitable as it had proven to be one of the most representative OI measurement instruments (Riketta, 2004), a recognition to a greater or lesser degree by Bergami and Bagozzi (2000), Riketta (2004), Mael and Tetrick (1992) and Cornwell and Coote (2005). The tenth item of the scale was eliminated because it was not related to the subject dealt with in the present study and there was no possibility of adapting it to the study. Other items were adapted to measure consumer-company identification.

The generation of items, a process inherent in the construction of scales (Churchill, 1979) continued with the conducting of in-depth interviews with consumers. The purpose of this process was to generate an exhaustive number of assertions that might be used to measure the trait of the individuals and cover all the attributes of the construct, as suggested by Devellis (1991) and Churchill (1979). It is important to highlight, however, that items generated in this first phase are seldom redundant and that a radical reduction of items is usually advised (Churchill, 1979).
The projective technique was used during the in-depth interviews, in accordance with Zaltman (1997), 70% of stimuli are captured through the visual system, suggesting that the combination of verbal and non-verbal language better translates the analyzed behavior (Zaltman, 1997). Accordingly, 12 consumers, who had spontaneously agreed to take part in the survey, were asked to bring with them, to a scheduled interview, around 10 figures, such as photos and print ads, representing a company of which they are clients and with which they identify greatly. Nine of the 12 participants were business students from a university in a big Brazilian city who were between their second and fourth years of undergraduate studies. They were coupled with 3 other participants who worked in different professional fields (2 in psychology and 1 in biochemistry). Of the total participants, 4 were males and 8 females, and they were between 19 and 29 years old.

The participants were interviewed by a trained psychologist and one of the co-authors of the present study. Later on, both participated in the data analysis process. When the tenth interview was carried out, convergence of content was found, indicating that enough interviews had been carried out. Since another 2 interviews had already been scheduled, they were carried on in order to generate a richer database for further analysis.

The interviews were recorded and then transcribed. The resulting database was analyzed with the support of Bardin’s (1977) content analysis technique. The transcribed text and the photos and print ads brought by the participants were analyzed. Words and phrases were categorized in order to allow a better understanding of the data and the generation of items. In table 1, the items generated are presented, and a brief overview of phases and considerations from interviewees that underlies item generation. Respondents are characterized as R1 to R12.

Table 1:

**Interview Results and Items Generated**

| V10 | Consuming the products/services of the Company highlights my personal characteristics. | R10 – consuming products from that company highlights my characteristics. | R1 – “people differentiate themselves from others through the clothing they wear”. |
| V11 | I believe that the Company cultivates the values that I hold in esteem. | R9 – values the democratic spirit of the organization. | R2 and R6 – ethics is the most appreciated value the organization has. |
| V12 | I do not identify with the posture of the Company.* | R7 – “this organization seeks the new, new technologies, that’s why I trust it”. | R11 – “people say that company X is very competitive and I like it” |
| V13 | I believe that the products/services of the Company help me define who I am. | R1 – “the set of brands, and consumer habits characterizes the individual” | R8 – idealized the company as a heterosexual man, between 20 and 30 years, rich, with a modern haircut, fashion, and with a normal bodyline. |
| V14 | I believe that consuming products/services of the Company leads others to view me in a manner that I wish. | Individuals described companies as having an attractive, interesting and desired image, therefore aiding in the process of constructing a self-concept. | |
| V15 | I believe that consuming products of the Company helps me to be part of the social group to which I belong. | R7 – the company is “fast moving”, “doesn’t wait for things to happen” and is “entrepreneurial”. Regarding image, the company is “dynamic”, “seeks accomplishments” and “overcomes problems”.

Continues
Table 1 (continued)

| V16 | I recognize myself in the Company. | R9 – described the company with the same adjectives used to describe herself, as did other interviewees. |
| V17 | The decision to choose this Company is based on values that I judge to be important in my personal life. | R6 – when questioned on why she would select the company to buy financial products, stated that she would do so because the company is ethical, transparent, and has values that she shares. |
| V18 | I can see no similarities between my identity and that of the Company. * | R12 – used several of his own and particular characteristics to describe a laboratory, showing the proximity of his self-concept and the company’s image. |
| V19 | People who are important in my life identify with the values of the Company. | R4 – indicated that several of her friends also identified with the company she chose for the interview. |
| V20 | Consuming products/services of this Company influences the image that I transmit to people that I know. | R1 – several of his friends, despite having different characteristics from him, identify themselves with the chosen company. |
| V21 | I perceive that my main characteristics are highlighted by consuming products/services of the Company. | R2 – “I have several friends that identify themselves with the company”. |

Note. * Reversed items.

With the outcome of this work, 12 items were generated that, together with the assertions of Mael’s scale (1988), appeared to adequately fulfill the universe of the construct under analysis. The generated assertions refer to the attributes (1) feelings of solidarity in relation to the institution and support of the company, (2) characteristics shared with the company and (3) characteristics shared with other consumers of the company. These 12 items (V10-V21), together with the 9 obtained and adapted from Mael’s scale composed the data collection instrument (V1-V9), as shown below.

Table 2:

List of Items

| V1 | When someone praises the Company, it feels like a personal compliment. |
| V2 | I’m very interested in what others think about the Company. |
| V3 | If a media story criticized the Company, I would feel embarrassed. |
| V4 | I act like a typical consumer of the Company, to a great extent. |
| V5 | I have a number of qualities typical of consumers of the Company. |
| V6 | When someone criticizes the Company, it feels like a personal insult. |
| V7 | When I talk about the Company, I usually say “we” rather than “they”. |

Continues
Table 2 (continued)

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V8</td>
<td>The Company’s successes are my successes.</td>
</tr>
<tr>
<td>V9</td>
<td>I don’t act like a typical consumer of the Company.</td>
</tr>
<tr>
<td>V10</td>
<td>Consuming the products/services of the Company highlights my personal characteristics.</td>
</tr>
<tr>
<td>V11</td>
<td>I believe that the Company cultivates the values that I hold in esteem.</td>
</tr>
<tr>
<td>V12</td>
<td>I do not identify with the posture of the Company.</td>
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<tr>
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</tr>
<tr>
<td>V19</td>
<td>People who are important in my life identify with the values of the Company.</td>
</tr>
<tr>
<td>V20</td>
<td>Consuming products/services of this Company influences the image that I transmit to people that I know.</td>
</tr>
<tr>
<td>V21</td>
<td>I perceive that my main characteristics are highlighted by consuming products/services of the Company.</td>
</tr>
</tbody>
</table>

Having generated the items necessary to incorporate all the constructs involved in the measurement of the cognitive component of the consumer identification with the company, we continue to the second phase of the scale development process, which is concerned with the efforts in scale purification and validation.

Second Phase – Scale Purification

The purification of the scale was achieved by means of a survey composed of the 21 assertions accompanied by a 5-point Likert-type scale, as used by Mael (1988) in his original study. The target population was composed of management degree undergraduate students from three big universities (i.e., universities with more than 5,000 students) from two large Brazilian cities. The use of students was considered appropriate because of the objectives of this study, and also because previous authors from psychology, who addressed the self-concept, presented satisfactory results with student samples (e.g., Mael, 1988; Malhotra, 1981). Finally, since this paper aims to construct a scale and the objective of this process is to search for internal consistency of measurement, thus there is no need for a random sample of the population (Grace, 2005). The data were collected in February 2007, during which time a total of 218 questionnaires were completed and later analyzed.

A decision was made to use gradual suppression for the process of purifying the data, with the expectation that the exclusion of some variables might, by eliminating the perturbation provoked by a spurious and/or redundant variable, improve the reliability presented in the factor (Devellis, 1991).

The sample was composed of 218 individuals, but one did not complete the gender question, so the remaining were divided in 121 (55.5%) men and 96 (44%) women, a proportion equivalent to the population in question. All respondents were undergraduate students of administration, with a mean age of 22.8 years and mode 20 years. The age of these individuals was established between 18 and 65 years, with a standard deviation of 6.8 years. Of the sample obtained, 28% had a family income of under R$ 2,000 and 38.5% said their family earned more than R$ 5,000.00. Following the suggestions of Hair, Anderson, Tatham and Black (1998) the sample size was considered adequate vis a vis the number of items in the original scale (i.e., 21).
Continuing with the appreciation of the descriptive statistics, assertions V3, V6, V7, V8, V16 and V19 presented averages that were statistically inferior to the center. With the knowledge that the questionnaire concerned the identification of an individual with a company and that the subject was asked to choose a company with which he/she identified, the concentration of cases of discordance might denote that the variable failed to adequately measure the construct, presenting a signal contrasting with that suggested by the theory. Variables V3, V7 and V8 were developed by Mael (1988) for measuring OI, and were elaborated and validated for a relationship that involves official membership, unlike the relationship between consumers and companies, the focus of this study (Bhattacharya & Sen, 2003; Bresser & Millonig, 2003). The results on these items jointly present clear evidence that the proposed level of relationship measured by these items was far from what the respondents considered to be normal, therefore leading them to respond negatively to these items of the scale.

Furthermore, variable V6, which concerns a criticism of the company as a personal offense, and variables V16 and V19, also did not appear to have captured the opinion of the respondents. Considering the characteristics of the generation process, all 6 assertions were redundant theoretically in relation to others that were maintained for later evaluation, specifically, the items V3, V7, V8, V6, V16 and V19 overlap with items V1, V2 and V10, corroborating their exclusion.

Before proceeding with the Exploratory Factor Analysis [EFA], the Kaiser-Meyer-Olkin indices and the Bartlett Spherical Test were analyzed. The calculated KMO at 0.669 was considered a satisfactory index (Hair, Anderson, Tatham, & Black, 2005), while the Bartlett Spherical Test showed significant correlations to a p < 0.001, denoting suitability of the factorial analysis in the generated items. The EFA was carried out using the principal components method, with VARIMAX rotation. The first exploratory factorial analysis initially identified 5 factors with an eigenvalue greater than 1, which explain 55.30% of the variance of the phenomenon under study. In this process, variables V15 and V18 were eliminated due to their low level of communality, a decision corroborated by the low internal consistency in their respective dimensions and by the theoretical overlap with other variables. This process was repeated once more, resulting in the exclusion of 3 more items. The items V21, V17 and V5 all presented low correlation with the remaining items of the factor they were part of and also presented the lowest item-total correlation amidst the components of each factor. Furthermore, all the 3 variables were theoretically redundant with other items (i.e., V4, V9 and V11). A third factorial analysis indicated the exclusion of another two variables. The item V12 did not present satisfactory communality whereas the item V20 presented low item-item correlation with other members of the factor, the lowest item-total correlation, and theoretical overlap with variables V13 and V14, justifying its exclusion. Finally, a conclusive EFA was carried out on the survey instrument, consisting of the 8 items that had passed through the previously demonstrated filters. The KMO index and the Bartlett’s Spherical Test indicated the suitability of the technique for the sample of items and objects under analysis (KMO = 0.585 and significant correlations at p < 0.001).

In this last EFA, 4 distinct factors were generated with eigenvalues greater than unit, which together explain 69.43% of the variance, composed of variables that present factorial loads and commonalities greater than the floor. All the factors present significant levels of internal consistency, represented by high Cronbach Alpha indexes and item-item correlations. The item-total correlation index was not observed as all the factors were composed of two assertions, making the observation of this index redundant (Iacobucci & Duhachek, 2003).

Thus, the final rotation presented factorial loads varying between 0.76 and 0.86 and minimum commonality of 0.63. It is important to note, however, that though usually only Cronbach Alpha values greater than 0.70 are accepted, in the case of factors with only two variables, an acceptable index will lie between 0.40 and 0.60 (Iacobucci & Duhachek, 2003).

Factor 1 – Dimension referring to the sharing of characteristics with consumers.
The first dimension of the construct, composed of the variables V4 and V9, represented 17.62% of the explained variance of the instrument, with an eigenvalue of 1.41. Both the components of the factor refer directly to the process of comparison and the social categorization performed by the individuals represents a facet of the process of identification.

Factor 2 – Dimension related to solidarity and support for the company.

The second factor responds, with an eigenvalue of 1.40, for 17.55% of the extracted variance and is composed of variables V1 and V2. The questions refer to both the feeling of solidarity existing between the individual and the organization, with which he identifies, and the support of the consumer for the company, another side of the prism of consumer identification with the company.

Factor 3 – Dimension related to the construction of self-concept.

The third dimension presented here contributed 17.43% of the explained variance, with an eigenvalue of 1.39. It was composed of items V13 and V14, intrinsically related to how the company, with its identity made apparent through its products and services, helps individuals build their self-concepts.

Factor 4 – Dimension related to the shared characteristics between individual and the company.

The two variables comprising this last factor reflect the sharing of characteristics and values between the consumer and the company with which he identifies, according to the definition proposed in the preceding chapter. The dimension presented a factorial load of 1.35, which rounded to an explained variance of 16.83%.

With this, the purification process outlined here resulted in a four-dimensional scale composed of 8 items, presented in order of extraction of the main components, as can be seen in Table 3.

Table 3:

<table>
<thead>
<tr>
<th>Final Scale</th>
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<tbody>
<tr>
<td>V4</td>
</tr>
<tr>
<td>V9</td>
</tr>
<tr>
<td>V1</td>
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<tr>
<td>V2</td>
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<tr>
<td>V13</td>
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<tr>
<td>V14</td>
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<tr>
<td>V10</td>
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<tr>
<td>V11</td>
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</tbody>
</table>

Having conducted the purification process, the next logical step in our endeavor to generate the proposed scale, was to validate the scale and for that a Confirmatory factorial analysis was carried out with a new set of data, collected specially with this purpose in mind.

Third Phase – Scale Validation

In order to validate the scale, the suggestions of Winer (1999) were followed, in an attempt to gauge, on this occasion, the internal validity of the scale of consumer-company identification developed
during the previous stage. In order to perform this task, the model presented by Bhattacharya and Sen (2003) was used, assessing the suitability of the proposed scale for measuring the defined construct.

Therefore, a search for scales that might be of use in measuring the antecedents of consumer-company identification – similarity, distinctiveness, prestige and attractiveness of the identity – and the consequences of the phenomenon – loyalty, company promotion, customer recruitment, resilience to negative reports and greater reclamations against the company – was carried out (for more details see Bhattacharya and Sen (2003)). As suggested by Bhattacharya and Sen (2003), only a sample of the antecedents and consequences of the phenomena were used in order to assess the nomological validity of the scale. In this case, the research instrument was built up with scales of the antecedents similarity, distinctiveness and attractiveness, as well as of the consequences company promotion, loyalty and resilience to negative information. In the table below, the constructs and their respective scales used in the validation process are presented.

Table 4:

Scales Used for Validation

<table>
<thead>
<tr>
<th>Construct</th>
<th>Scales used</th>
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<tbody>
<tr>
<td>Similarity</td>
<td>Bhattacharya and Sen (2003), Pieroway (2005) -and in-depth interviews</td>
</tr>
<tr>
<td>Attractiveness</td>
<td>Bhattacharya and Sen (2003), Pieroway (2005) and in-depth interviews</td>
</tr>
<tr>
<td>Loyalty</td>
<td>Zeithaml, Berry and Parasuraman (1996)</td>
</tr>
<tr>
<td>Company promotion</td>
<td>Babin, Lee, Kim and Griffin (2005), Bhattacharya and Sen (2003) and in-depth interviews</td>
</tr>
<tr>
<td>Resilience to negative information</td>
<td>Bhattacharya and Sen (2003), Koufaris and Hampton-Sosa (2004)</td>
</tr>
</tbody>
</table>

Following the first phase of the refinement process, the validity of the survey instrument was tested. The objective was to test whether the instrument measures the identification of the consumer with the company. Therefore, an effort was made to investigate whether the results of the measurement reflect the real differences between the objects or individuals in relation to assessed characteristics. For this study, content and construct validity were analyzed. The collection endeavor for the validation process occurred on May 2007 in 4 universities of 3 big cities in Brazil, resulting in 387 usable questionnaires. The sample that resulted was very similar to the first one used in the purification phase of the study, corroborating research expectancies. The sample was composed of 387 individuals (sample size in accordance with inferior limits proposed in the literature (Hair et al., 1998)). The population was composed of 225 (58.1%) men and 162 (41.8%) women, a proportion equivalent to the population in question. All respondents were undergraduate students of administration, with a mean age of 21.9 years and mode 19 years. The age of these individuals was between 17 and 42 years, with a standard deviation of 4.7 years. Of the sample obtained, 12% had family income less than R$ 2,000, and 47.5% said their family earned more than R$ 5,000.

It is worth noting that, in the present study, some cases of kurtosis were detected. However, there were few cases and they did not compromise the validity of the research findings. Therefore, the chi-squared test was performed together with other indexes, because this test is very sensitive to deviations from normality among observable variables (Bentler, 1984).

The validity of the content, though subjective, is a systematic assessment of the exactness with which the content of a scale represents that which is measured, that is, whether or not the items of the scale adequately cover the domain of the analyzed construct. The validity of the content was achieved
by gathering a set of items representative of the construct, based on a review of the literature on the subject.

The validity assessment also comprises the properties unidimensionality, reliability and the convergent and discriminant validity of the constructs of the measurement model represented by the scale being analyzed. Confirmatory factorial analysis was the technique employed for this purpose. The criterion used in the assessment of the unidimensionality took into consideration the test of the standardized residuals. According to Garver and Mentzer (1999) the researcher should be concerned with obtaining a small number of standardized residuals in relation to the indicators of each latent variable. Table 5 shows, in the last column, the highest values for each dimension, indicating high unidimensionality of the items, as the highest residuals found were lower than 0.2, indicating the quality of the tested scale.

Table 5:

<table>
<thead>
<tr>
<th>Dimensionality and Scale Reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Factor 1</strong></td>
</tr>
<tr>
<td>Shared Characteristics</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>Eigenvalue</td>
</tr>
<tr>
<td>Cronbach’s Alpha</td>
</tr>
<tr>
<td>Explained Variance</td>
</tr>
<tr>
<td>Major Residual</td>
</tr>
</tbody>
</table>

A new exploratory factorial analysis was performed and four factors were extracted, with the items presenting relatively high and distinct loads in their respective factors. The dimension related to the self-concept construct was the factor that most explained the total variance, with 48.1%. The second most explanatory factor was the dimension related to solidarity and support for the company, representing 16.24% of the total variance. Following this came the factors related to sharing characteristics with the consumers and between the individual and the company, with 11.52% and 7.51% of the variance respectively.

The Cronbach’s Alpha coefficient (Table 5) was calculated separately for the eight dimensions found. The calculation for all the items in the scale presented a value equal to 0.85. All the dimensions presented results of over 0.6.

Verification of the reliability and extracted variance, based on the sum of the standardized loads and measurement errors of the indicators, was also carried out, as the Cronbach’s Alpha coefficient becomes artificially inflated when the scale has a large number of items. Assessment of the finding indicated that the dimensions presented values for reliability and extracted variance greater than those suggested in the literature (from 0.50 for extracted variance and between 0.70 and 0.90 for reliability).

Table 6:

<table>
<thead>
<tr>
<th>Reliability and Discriminant Validity Evidence of the Study Constructs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Factor 1</strong></td>
</tr>
<tr>
<td>Shared Characteristics</td>
</tr>
<tr>
<td>Composite Reliability</td>
</tr>
<tr>
<td>Variance Extracted</td>
</tr>
</tbody>
</table>
The convergent validity, attained when indicators that are supposed to measure the same phenomenon are correlated (Evrard, Pras, & Roux, 1993), was checked by using the test of the statistical significance of standardized factorial loads for each one of their manifest variables, based on their respective t-values (Bagozzi, 1994). The data confirm the convergent validity of all the dimensions. Nonetheless, two variables each registered a t-value close to the minimum required: the first item of factor 4 on the sharing of characteristics between the individual and the company (Consuming the products/services of the Company highlights my personal characteristics) with a t-value of 1.986; and the second item of factor on the sharing of characteristics with the consumers (I don’t act like a typical consumer of this Company) with a t-value of 2.354.

Figure 1. Modeling Consumer-Company Identification as a Higher Order Factor.

In order to assess discriminant validity, a procedure was carried out that consisted of comparing the extracted variance and the shared variances of the dimension (the squared correlation of the coefficient) with the other dimensions (Fornell & Larcker, 1981). The results corroborated the discriminant validity, to the degree that the dimensions appear to distinguish themselves, as all of them had greater extracted than shared variances.

The adjustment indexes obtained were satisfactory with values significantly greater than the accepted minimum. The possibility of re-specification, through the withdrawal of parameters, with the aim of enhancing the adjustment of the measure model, was considered, and the withdrawal of two variables (one at a time) by the Lagrange Multiplier [LM] test was recommended for suppression. The variables withdrawn were those that had displayed weak significance for convergent validity. Nevertheless, the enhancement fit of the model was insignificant, thus indicating the maintenance of these items. The table below shows the final adjustment indexes.
Table 7:

**Goodness-of-Fit Statistics**

<table>
<thead>
<tr>
<th>χ² (chi-square)</th>
<th>GL (Degrees of Freedom)</th>
<th>CFI (Comparative Fit Index)</th>
<th>NFI (Normed Fit Index)</th>
<th>NNFI (NonNormed Fit Index)</th>
<th>RMSEA (Root Mean Sq. Error of Approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>252.44 (p=0.000)</td>
<td>121</td>
<td>0.96</td>
<td>0.95</td>
<td>0.948</td>
<td>0.061</td>
</tr>
</tbody>
</table>

It can be seen that all the indexes have acceptable values as indicated in the literature (Bagozzi, 1994). To complete the validation of the instrument for measuring the identification of the consumer with the company, a theoretical model was tested. Following Byrne’s (1994) recommendation, the estimation method chosen was the iteratively reweighted generalized least squares [ERLS], available in EQS software, which is not based on the prerogative of normality. In this model, the relationships between the construct of consumer-company identification was tested against some antecedents and consequences. These relationships are supported in the literature and a positive relationship would indicate the nomological validity of the construct.

The results of the analysis of the structural model can be seen in Table 8. The value of the chi-squared test is significant, although knowing that this test is very sensitive to diversions from normality and to samples of over 200, the analysis of the chi-squared should be done in composition with other adjustment criteria (Hair et al., 2005). The adjustment indexes CFI, NFI, NNFI, all well over 0.90, are considered quite satisfactory and the RMSEA of 0.06 is within the recommended values of 0.05 and 0.08, thus being acceptable.

Table 8:

**Estimated Coefficients for the Antecedents (Similarity, Distinction and Attractiveness) and Consequences (WOM, Repurchase Intention and Resilience) of Consumer-Company Identification Construct**

<table>
<thead>
<tr>
<th>Antecedents</th>
<th>Consequences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Similarity</td>
<td>WOM</td>
</tr>
<tr>
<td>Distinction</td>
<td>0.31 (5.85)</td>
</tr>
<tr>
<td>Attractiveness</td>
<td>0.27 (3.21)</td>
</tr>
<tr>
<td>Standardized Coefficients</td>
<td>0.55</td>
</tr>
</tbody>
</table>

Note: a Based on ERLS (iteratively reweighted generalized least squares) using EQS.

b t-values between parentheses. Based on the two-tail test: t-values > 1.65 = p<0.05; and t-values> 2.33 = p<0.01. Significant coefficients are in bold (all at level 0.01).

These results provide nomological value to the construct of identification between the consumer and the company and constitute evidence of the importance of this measure in helping to explain some important phenomena in marketing (e.g., loyalty and company promotion).

After concluding the steps necessary for the development and validation of the proposed scale, we proceed to discuss the results encountered and the implications of this research effort.
DISCUSSION AND IMPLICATIONS

The objective of this study was to assess the nature and structure of the consumer-company identification phenomenon. Our research offers important implications for the measurement of consumer perceptions about his/her identification with a company. The present study contributes first with a clear and comprehensive definition of the identification construct embracing three fundamental characteristics - (1) feelings of solidarity in relation to the institution and support for the company, (2) the sharing of characteristics with the company and (3) the sharing of characteristics with other consumers of the company. This theoretical re-conceptualization requires new measures to assess all the underlying characteristics of the construct. Exploratory and confirmatory analysis shown that these three characteristics are represented by 4 underlying constructs, namely, the shared characteristics with consumers, the shared characteristics with the company, solidarity with the company, and the importance of the corporate identity for the construction of the self-concept.

The re-conceptualization of the construct suggests that currently available taxonomies and operational definitions cannot be accepted since they do not reflect the idiosyncrasies of the cognitive of complicity between consumer and company. Specifically, according to our view, identification is not a one-dimensional construct as previously proposed (Bhattacharya & Sen 2003). Because scales that were being used in studies do not cover the three basic characteristics of the identification construct, they cannot be considered adequate measures of the construct. Specifically, most of the studies in the marketing field have used two measures as a proxy of consumer-company identification – the visual scale of organizational identification proposed by Bergami and Bagozzi (2000) and a Euclidean Distance scale of comparison of individual versus organizational traits proposed by Brown and Dacin (1997) (e.g., Einwiller, Fedorikhin, Johnson, & Kamins, 2006; Lichtenstein, Drumwright, & Braig, 2004). Nevertheless, it is important to highlight that neither of these two measures was developed to assess specifically consumer-company identification. Actually, they were created to measure constructs that are related but still distinct from consumer-company identification. Notably, the Euclidean Distance scale embraces only one of the proposed characteristics of identification, i.e., the sharing characteristics with the company (see Brown & Dacin (1997) for more details). Second, since there is no scale, to our knowledge, that measures the remaining two characteristics of identification, namely feelings of solidarity and the sharing of characteristics with other consumers, it is impossible to assess the content and construct validity of the organizational identification visual scale proposed by Bergami and Bagozzi (2000). Therefore, the present scale is the first one that successfully measures all the dimensions underlying the consumer-company identification construct.

Regarding the structure elicited for measuring the consumer-company identification construct, the results indicate that the four dimensions of consumer-company identification are distinct, have discriminant validity, and warrant additional research attention. It is also important to acknowledge, however, that one of the dimensions of the identification construct (i.e., shared characteristics with the company) is conceptually related to one antecedent of identification (i.e., identity similarity). Close relationships between dimensions of a construct and its antecedents have already been noted in the identification literature (Cheney, 1982; Mael, 1988). Notwithstanding the support of prior works, we suggest that future researchers focus more on the discriminant validity between this attribute and the antecedent.

Researchers examining the antecedents and consequences of the identification of consumers toward a company may also benefit from investigating at the level of the individual dimensions. These research programs would treat consumer identification toward the company not as a homogeneous, one-dimensional phenomenon, but as consisting of four distinct dimensions. Following important works on multi-dimensional constructs (e.g., Leach et al., 2009), future research should address specifically the different relationships between each dimension of identification and its antecedents and consequences. Accordingly, our analyses suggest that judgments concerning identification are most strongly related to similarity and distinction constructs as antecedents. Attractiveness is mildly related to consumer-company identification; the fact that customers do not need to evaluate the
company as attractive in each transaction conducted probably accounts for the mildness of this effect. Company promotion, loyalty and resilience to negative information about the company emerged as significant consequences of the consumer-company identification construct. It posits relevant implications for academics and managers, as these consequence constructs reflect positive behaviors concerning the customer-company relationship.

Managerial practice can also benefit from the present work. Hildebrand and Slongo (2006) have already emphasized the importance of aligning corporate identity with consumers’ self-concepts in order to increase corporate institutional capital, a crucial factor for the survival of the company. In this sense, Bhattacharya and Sen (2003) suggest that consumer-company identification could be considered an important antecedent of loyalty behavior. Nevertheless, the literature has historically pinpointed only simple and singular factors and mechanisms in its search for the enhancement of consumer loyalty (Agustin & Jagdip, 2005). This research corroborates Bhattacharya and Sen’s (2003) propositions and positions consumer-company identification at the forefront of meaningful relationships between companies and consumers. The results of the present paper suggest that the higher-order motivator for relational exchanges – consumer-company identification – has important behavioral consequences such as loyalty, company promotion and resilience to negative information. In this way, managers in search of meaningful relationships with consumers should first identify characteristics and meanings that are valuable to their consumers and then attach these characteristics to its concept, aligning with consumers’ identities (for more details on strategies and tactics to align identities see Balmer & Greyser (2002) and Balmer (2009)).

The present study intended to propose taxonomy and its formalization to be useful by other researchers tracking a better explanatory power of the consumer behavior phenomenon. Our effort was to provide the apparatus for such an analysis, impetus for additional theories and clarification of such an obscure field. Our findings are limited because of lack of generalizability, cross-sectional nature and other factors, including common method variance and spurious cause-effect inferences. Despite these limitations, our results yield insight and tentative evidence for the consumer toward company identification.

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Balmer, J. M. T., & Greyser, S. A. (2002). Managing the multiple identities of the corporation, California management review, 44(3), 72-86.


