AN ANALYSIS OF QUALITY CRITERIA TO DETERMINE THE IMPROVEMENT PRIORITY ATTRIBUTES

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ABSTRACT: The focus of this study is on how to find out the improvement priorities for customer satisfaction. The identification, analysis, and evaluation conducted in this study is to the Voice of Customer (VoC) based on the service attributes of SERVQUAL. To explore customer satisfaction, the survey distributed is through questionnaire developed using Kano method and Likert scale to the customers of event organizer in Selangor, especially the customers who are using their services for wedding events. While to find out what the attributes of service delivered as the elements for improvement required, the analysis conducted is through the integration of ranking level, customer satisfaction-dissatisfaction (CS-DS) values and graph, and their correlation. In this study, the statistical analysis conducted using SPSS is to construct the comparison between Kano method results against the quality attributes based on pairwise of Functional and Dysfunctional condition to find out the correlation and the relationship among the service elements identified. This study found that "The electronic service to communicate with customer (K1)" of the service attributes of "Responsiveness" is as the first priority improvement required by customer.

KEYWORDS: Kano Method, SERVQUAL, VoC, CS-DS.

1.0 INTRODUCTION

To understand the customer's expectation is not solely depend on the fulfilment of customer's need and the existence of the product or services performance delivered to them [1]. Based on this point of view, what the challenges and competitions faced by the companies in the market are, however, not only on how they can identify what the customer satisfaction and requirements. This due to the customer satisfaction is, in facts, an ambiguous and abstract concept since the real manifestation of the state of satisfactions varies from person to person, also against products or services [2].

In addressing this issue, firstly, Tse and Wilton [3] argued that the company should also need to consider the customer response to the mismatches (disconfirmation) perceived between prior expectations and actual performance of a product. They saw that the perceived performance is as a comparison form against the expectations in the picture of customer feelings level [4]. Secondly, Wilkie [5] stated that since the customer satisfaction has a strong relation towards an emotional challenge of the experience based on the consumption of a product/service, there are the purchase evaluations required against the customer's expectations and dissatisfaction of the selected alternatives. This is especially if the expectations results (outcome) were not met [6]. Related to both views, scholars articulated it on

- how the process in creating and delivering the value to customers in the marketplace as the combination formed of customer satisfaction and price [7],
- how to create service values with the aim of satisfying customer (how the company must create service values that must correctly attribute the related factors related of the identified quality) [8],
- the assumption that a customer will learn from experience in which the decreasing levels of expectations disconfirmation against goods and services should affect customer satisfaction [9],
- the using of satisfaction ratings as the performance indicator of products and services delivered, beside the indicator of the company's future [10].

On realities, to understand customer requirements are much more technically complex than in consumer market [11], especially in service sector. Even though, there are several of companies have been or might be successfully in implementing their strategy related to customer satisfaction through the quality improvement of products. However, the approaches of product quality measurement are still in scientific debate on superiority of one method over another; where the methods are then usually not treated as complementary, rather as alternative tools [12]. Specifically, Grigoroudis et al., [13] underlined about a number of the measurable parameters that directly linked to several aspects of company's products/services or else that remain as an abstract and intangible notion. Also, to a commonly problem occurred while analyzing data from customer satisfaction surveys due to the comparison of the stated and derived of importance for a set of satisfaction dimension [13,14].

Based on this reason, this study carried out as follows:

- 1. To identify and analyze the customer requirement as the Voice of Customer (VOC) through Functional Deployment.
- 2. To identify and find out what the priorities improvement required by using several methods such as ranking level, graph, and statistical calculation based on functional deployment of customer satisfaction related to service product characteristics through Kano and SERVQUAL method (Service Quality).

II. LITERATURE REVIEW

The "Voice of the Customer" (VOC) is a process used to capture the requirements or feedback from the customer in order to provide bestin-class service or product quality. The using of VOC is to describe the stated and unstated needs or requirements of the customer in a variety of ways, such as direct discussion or interviews, surveys, focus groups, customer specifications, observation, warranty data, field reports, and complaint logs. The tools used to interpret VOC are as follows:

A. Kano Method

The Kano model offers some insight into the product attributes perceived to be important to customers. Kano's model is employed as a starting point of the proposed quantitative analysis that involves the conducting of preliminary study, developing, and administrating the Kano questionnaire. On this method, the most frequent observations of the sample set of responses are considered as the final Kano category for CR (customer requirements) [15], where

- a) Quantitative analysis conducted to the customer satisfaction based on Kano's model is through by calculating two values which are "better" and "worse". Here, in order to reflect the average impact of a CR on customer satisfaction (CS) or dissatisfaction (DS) of all customers [16] as follows:
 - i.) Coefficient of cause of satisfaction (CS):

A + O	(1)
A + M + O + I	(1)

$$\frac{O+M}{A+M+O+I} \tag{2}$$

b) the decisions made for product developments related to the improvement required towards the products are on the features that has the greatest influence on the perceived product quality [17,18], where their evaluation rule as follows :

$$M > O > A > I \tag{3}$$

In this formula, M stands for 'Must-be' requirements, O for 'Onedimensional' requirements, A for 'Attractive' requirement and I stands for 'Indifferent' requirements. The range of 'Must-be' attribute has the largest range than the other attribute based on the evaluation rule about the first taking requirements into consideration for satisfaction condition. This is meant that by disregarding the requirement of category M based on Kano's method as the basic elements of products will creates dissatisfaction [19]. The 'Indifferent' attribute (or I) has only minor influence to the employee's satisfaction since the employees will doesn't feel dissatisfy even though this attribute was not fulfilled. Kano et al., [15] stated the quality attributes to the requirements for satisfaction as follows:

- Must-be Requirements (Threshold / Basic attributes). If these requirements are not fulfilled, the customer will be extremely dissatisfied. The must-be requirements are basic criteria of a product. Fulfilling the must-be requirements will only lead to a state of "not dissatisfied". Must-be requirements are in any case a decisive competitive factor, and if they are not fulfilled, the customer will not be interested in the product at all.
- One-dimensional Requirements (Performance / Linear). With regard to these requirements, customer satisfaction is proportional to the level of fulfillment – the higher the level of fulfillment, the higher the customer's satisfaction and vice

versa. One-dimensional requirements are usually explicitly demanded by the customer.

- Attractive Requirements (Exciters / Delighters). These requirements are the product criteria which have the greatest influence on how satisfied a customer will be with a given product. Attractive requirements are neither explicitly expressed nor expected by the customer. Fulfilling these requirements leads to more than proportional satisfaction. If they are not met, however, there is no feeling of dissatisfaction.
- Indifferent Attributes. The customer does not care about this feature. Means that the customer is not concerned with this product attribute and is not very interested whether it is present or not.
- Questionable Attributes. It is unclear whether the customer expects this attribute. This situation occurs if there is a contradiction in the customers' answers to the paired questions. A questionable rating indicates incorrectly phrased question, misunderstanding of a question, or an incorrect response.
- Reverse Attributes: Means that some of the respondents' satisfaction decreases with the existence of this requirement, but they also expect the reverse of it.

Table 1 shows the six categories quality attributes influenced to the customer satisfaction.

	DYSFUNCTIONAL							
		1.	2.	3.	4.	5.		
FUNCTIONAL		Like	Must-be	Neutral	Live with	Dislike		
	1. Like	Q	А	А	А	0		
	2. Must-be	R	Ι	Ι	Ι	М		
	3. Neutral	R	Ι	Ι	Ι	М		
	4. Live with	R	Ι	Ι	Ι	М		
	5. Dislike	R	R	R	R	Q		
A = Attractive ; M = Must- be; R = Reverse; O = One- dimensional ; I = Indifferent; Q = Questionable								

Table 1: Kano's evaluation table.

c) Category Strength (CA) Value. This category strength (CAT) method is a suitable method to determine the priorities within a requirements category. Based on the value of CAT for the ranking order is to know which categories have to be first priority. The maximum value of CAT is at the first place as the priority among the other requirement. The lower

percentage of the CAT value means that the requirements are satisfy the customer or employee feeling. The CAT index as formula below:

CAT = the first most frequently-given nomination (%) – the second most frequently nomination (%) (4)

B. Five Generic Service Quality Dimensions

Servqual model is the method used to measure the quality of service. Parasuraman et al., [20] defined the 5 attributes dimensions of service quality (SERVQUAL) as follows:

- Reliability: ability to perform the promised service, dependably and accurately.
- Responsiveness: willingness to help customers and provide prompt service.
- Assurance: knowledge and courtesy of employees as well as their ability to inspire trust and confidence.
- Empathy: caring, individualized attention the firm provides its customers.
- Tangibles: appearance of physical facilities, equipment, personnel, and communication materials.

III. METHODOLOGY

This study conducted the analysis towards the service provider through the Voice of Customer (VOC) identification. The data and information of the Voice of Customer (VOC) related to Event Organizer or Event Planning Management (EO) performance is categorized into the important level of service specification based on ranking level. Here, the ranking level used is to generate the importance level of service products based on the customer needs, while Kano model is to determine what the factors that satisfy the customer. In this study, the customer needs as the articulation of 5 dimensions of SERVQUAL that assess 30 items of services required by customer where Kano method and Likert scale is the satisfaction measurement related to the customer responses through the questionnaire developed.

Specifically, in Kano method, each product feature a pair of questions is formulated to which the customer can answer in one of five different ways. The first question concerns to the reaction of the customer if the product has the feature (functional form of the question), while for the second question concerns to the reaction if the service does not have the feature (dysfunctional form of the question). The wording of the alternatives is the most critical choice made in the Kano methodology (that is, "I like it that way," "It must be that way," "I am neutral," "I can live with it that way," "I dislike it that way"). While, in Likert scale, the questionnaire is developed based on "Strongly Like", "Like", "Nor Like or Dislike", "Dislike", and "Strongly Dislike". In this approach, the questionnaire developed refers to SERVQUAL instrument as customer evaluation tools towards service quality that were subsequently included into five generic Parasuraman's service quality dimensions, such as tangibles, reliability, responsiveness, assurance , and empathy. Fig.1 shows how to categorize the quality attributes which requires improvement priorities.

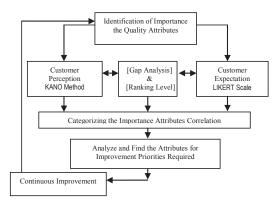


Fig. 1: Flows to Map the Attributes Required for Improvement Priorities.

IV. RESULTS AND DISCUSSION

Table 2 shows the results of quality attributes based on Kano method and the mean value of Likert scale towards each questions developed refer to SERVQUAL attributes.

A. Based on Kano Method

Based on Sauerwein category (see part II.A), the most important of service attributes are related to K15, K1, and K14. This is due to they are only having the 'Must-be' (M) attributes as the highest values (46.7%; 67%; 40% respectively). These questions are then followed by K16, K2, K3, K29, K12, and K13 since their percentages are close to 'One –dimensional' (O). The others, since they are in 'One-dimensional' , 'Attractive' and 'Indifferent' attributes, the priorities given as the last.

However, based on CS-DS classification [16] (see II part A.a), the priorities given should be to the service attributes which having the highest of negative values. Table 2 shows that the biggest 5 (the negative values) are K1, K15, K4, K14, and K2 (-0.667; -0.464; -0.367; -0.357; -0.333 respectively). This is meant that the first priorities for improvement should be given to K1 instead K15 (the opposite sequence if we use "M>A>O>I", where the first priorities given to K15 and then K1). While to find the priorities for improvement based on the lowest values using CAT, the service attributes for improvement are on K28, K27, K23, K22, K12, K9, and K3 where all of their CAT values are 0.033. These service attributes have ranking no 1 to 7. In this case, where the priorities are different, Sihombing et al., [21] proposed the ranking system based on the pairwise value using the reverse values (the functional value is reverse of the dysfunctional value and vice versa) as follows:

$$F = \neg DF \quad or \quad DF = \neg F$$
$$\Leftrightarrow \quad F = DF' \quad or \quad DF = F'$$

Therefore, since Kano attribute is a pairwise of functional and dysfunctional value, then the ranking values as shown in column K of Table 2 determined by formula as follows:

$$K = Ln \left\{ \frac{\frac{(F \times DF')^2 + (DF \times F')^2}{(F + F')} + \frac{(F \times DF')^2 + (DF \times F')^2}{(DF + DF')}}{2} \right\}$$

The results show that K3, K4, K15, K1, and K5 as the biggest 5, where the values are 2.99, 2.999, 3.001, 3.028, and 3.105 respectively. By using this approach, the ranking values are closed enough against CS-DS and "M>O>A>I" method. Based on the calculation results (Table 2), we can consider that CAT value for ranking is not exactly correct since the service attributes for improvement priorities is totally different compared to CS-DS and "M>O>A>I" method.

B. Based on Likert Scale

Based on the mean value which represent the customer expectation, the biggest 5 are on service elements L16, L15, L14, L17, and L22 where the values are 1.80 [4.20], 1.97 [4.03], 2.5 [3.50], 2.73 [3.27], and 2.87 [3.13]. Those service elements based on Likert scale parallel to the Kano method based on functional and dysfunctional questions such as K14, K15, K16, K12 and K6 respectively. Hence, the service attributes of K14, K15, and K16 is the most importance of the service attributes that close

enough to the ranking system for improvement priorities as suggested by Sauerwein [17,18]. Based on Likert scales, K1 or L 21 is on ranking 6.

C. Based on Cartesian Graph

Figure 2 shows the Cartesian graph between functional values against dysfunctional values. In this figure, the service attributes of K1, K15, K16, and K29 in the area DS[↑], while K14 in the area DS[↓] and K3 in the middle between DS[↑] and DS[↓]. Hence, since the decreasing levels of expectations disconfirmation against goods and services should affect customer satisfaction [9], then the priorities for improvement should be given to area DS[↑] where the service attributes are K1, K2, K3, K4, K7, K8, K15, K16, K17, K18, K20, K27,K28, and K29.

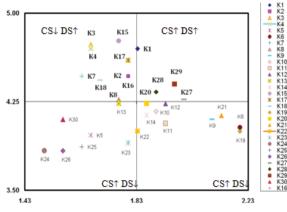


Fig 2: Graph of CS vs. DS.

D. Based on Significant Correlation (Pearson Correlation)

To find out the customer satisfaction based on the Kano correlation, Sihombing et al., [21] proposed the formula as follows:

$$\begin{array}{l} \left\{ K_{Functional} \right\} \cap \left\{ K_{Dysfunctional} \right\} = F_{Kano} \\ \Leftrightarrow \left\{ K_{Functional} \right\} \cap \left\{ K_{Dysfunctional} \right\} - F_{Kano} = 0 \\ \Leftrightarrow K_{Functional} \cap K_{Kano} = - \left\{ K_{Dysfucntional} \cap F_{Kano} \right\} \\ \Leftrightarrow - \left\{ K_{Functional} \cap F_{Kano} \right\} = K_{Dysfunctional} \cap F_{Kano} \end{array}$$

This formula represents Table 3a & 3b, where almost of Kano criteria are correlated to functional characteristic. This is due to the total numbers of items which having significant correlations (p<0.05) among the elements of Servqual (e.g. Tangible in Functional = 44 items, while in Dysfunctional =8). Therefore, we compare Table 3a & 3b to Table 3c to find out which the improvement priorities required in which the

"Responsiveness" elements of Servqual are having 5 items of service required by customer as the biggest one compared to Tangibles, Reliability, Assurance and Empathy (Table 3c). Based on this result, the priorities improvements should be considered on what the items inside the "Responsiveness" criteria. Using the priority criteria based on "M>O>I>A" [17], the focus for improvement affect to the items of K1 and K29 (Must-be' attributes). Hence, since the improvement required is related to DS↑ and/or CS↓, then the priorities for improvement is as follows:

"M>O>A>I" ∩ Ranking Level of CS-DS Ranking Level of CAT ∩ Ranking Level of K ∩ Ranking Level of Expectation ∩ Graph "DS↑ vs. $CS\downarrow$ " ∩ "Correlation Kano vs. Functional" ∩ "Correlation Kano vs. Dysfunctional" ∩ "Correlation Kano vs. Kano" = K1.

In this point of views, elements of K1 which are having "Must-be" of Responsiveness attributes should be given priorities for improvement.

V. CONCLUSIONS

There are many methods to identify and analyze the customer requirements related to Voice of Customer (VOC). However, they are resulting with different answer, especially when it is used to find out what the priorities of improvement required to satisfy the customer. This study propose the Functional Deployment through the integration of quality attributes using Kano attributes with ranking level, graph, mean value and their items correlation between functional and dysfunctional.".

Based on the integration result, it is found that the "Must-be" attribute as the first priority required for improvement. This is consistent to Sauerwein et al., [17] who propose "M>O>A>I". However, if the service elements having more than 1 "Must-be" attribute, to determine the priorities should also consider others method such as the ranking levels, graph, and the correlation mapping as the justification. In this study, through the case of service provided by Event Organizer or Event Planning Management (EO), the priority of quality improvement required is on K1 "The electronic service to communicate with customer (K1)" of the service attributes of "Responsiveness

This study proves that the ranking level proposed by Sihombing et al., [21] is close enough to the ranking level using CS-DS method [16, 17]. However, further study is still required in order to depict the priority

improvement of quality attributes required by customer by integrating the results based on Kano method and Likert scale, especially about the combination or mixed between both approaches into the numeric parameter and graph.

ACKNOWLEDGMENT

The authors would like to acknowledge the Ministry of Higher Education of Malaysia and the Universiti Teknikal Malaysia Melaka for the financial assistance in this research under PJP/2011/FKP (11D) S00878.

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APPENDIX:

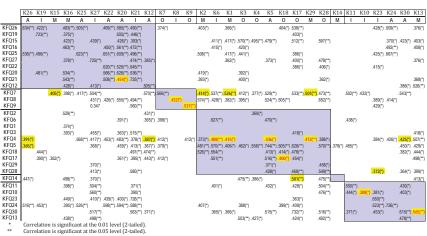
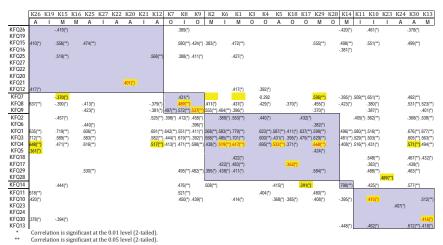


Table 3a: Correlation of Kano vs. Dysfunctional.

KANO vs. DYSFUNCTIONAL

Table 3b: Correlation of Kano vs. Functional. Kano vs. functional



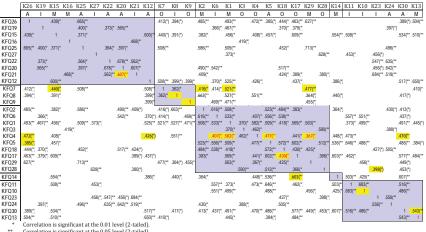


Table 3c: Correlation of Kano vs. Kano. KANO vs. KANO

Correlation is significant at the 0.05 level (2-tailed).

LIKERT PANKING ServQual Dimensions PANKING α [How do you feel , if company] α [The company provides] Cronback Cro CS-DS CAT K Mean RANK K26. [] stall concept service for customers' ever 29 29 16 es stall concept for even A [50%] 4.23 19 [0.464] 23 [0.207] [0.3] [3.126 K19.[] emcee (MC) for customers' even L12. [] provide Emcee (MC) for event I [50%] 26 [0.233] 30 [3.2] 3.97 13 K15.[] the mi L15.[] pr the mixed dishes choices menu (Malay Indian, etc.) 3 [3.001 9 M [46.7% 15 [0.1] ely of single di 2 [-0.464] 8 K16.[pices to the e M [30%] O [30%] L14.[] F=0.894 DF=0.768 [0.808] K =0.772 3 [-0.172] 28 [0.067] 25 [0.233] 2 2.50 [3.50] tes (Malay, Chines K25 [] free tea L6 []n 0.540 [0.673] A [46 7% 4 40 22 [0.464] 18 13 136 ANGIB L K27 [] dome set to serve food for customers' ev ides dome set to serve the foods 3.97 14 A [27% (0.036) [0.033] K22. [] free Karaoke set and Live Band for cu L10. [] provides the Karaoke set and Live Band for 25 24 [0.267] 22 3.93 11 [0.033] 12 1 [33%] [3.155 17 events provided? L11. [] provides es enterteir K20 [] free A [33%] 4.10 15 [0.261] [0.1] 24 [0.2] [3.126 27 1 [43%] 20 0.103] K12. The employees are proper attin (conert, cound looking, well dress, etc.) L17. The employee is formal, firmly, and strictly serving the customers in the event. L18. The employee hosts in the event are all w 5 19 [0.033] [3.136] A [27% M [27% F=0.728 DF=0.547 0.653 2.93 7 0.764 C9. The company need five (5) minutes to take action L20. The companies need more than fiv take action on food issued in the event?
 9
 6
 28

 [-0.115]
 [0.033]
 [3.176]

 19
 28
 5

 [0.036]
 [0.233]
 [3.043]

 12
 11
 11
 O [30%] I [27%] 0.679 8 F=0.514 DF=0.734 [0.262] K=0.563 RELIABILITY K7. The er service always fast res O [43%] ustomer ompany response to request of custome K8. The 1 [30%] e (1) hours 0341 [0 067] K2.The company have website to inform the service & offered (Price, Extra Service, Location, Equipment) L25. The company service information regarding p extra service, location, equipment are published in O [43%] M [40%] **5** [-0.333] 23 [0.167] 8 (3.073) 4.60 24 K6. The company offers and promotes the service available /provided through newspaper, magazine, banner.
K1. Electronic service (Email, Tel, Fax) to communicate the service offered for customer I [33%] 13 13 29 L22. The company does not promote and provides services information (i.e. newspaper, magazine, bar 5 (0) [0.1] .195) (3.13)* 30 [0.467] 4 (3.028) L21.[] response in one (1) hours to answer the request from customer (email and fax). 2.87 1 6 M [67%] [-0.667] [3.13] L24. [] direct face-to-face service to meet the K3. [] visiting service for face-to-face direct meeting with customer to offers and discusses the services required. [v O [43%] M [40%] 17 [0.036] 7 [0.033] 1 [2.99] 4.60 25 omer] the customer] K4. [] on-site direct service to the custo customer to visit the company] **RESPONSIVENES** F=0.879 DF=0.865 [0.698] K =0.839 **3** -0.367] 17 [0.1] 2 0 [47%] 0.342 [0.398] K5 [] 24 hour free on line service 27 [0.429] 19 [0.133] 18 3.131] A [40%] 3.30 9 K18. The company help customer to find and box L13. The company helps you as the customer to fine and provide the location for events? 15 14 7 4.47 23 O [40%] [0.033] [0.1] .063) locations. K17. Customers' choices towards event location (Hotel House, Hall, Gender, etc.) 22 6 O [43%] -0.027) [0.167] (3.045) K29. The company charges 20% and 50% of payment for booking fee for at least 1 month and 2 week before the eve While 100% payment, it should be completed in 1 week be L2. The company charges you 20% payment for booking fees? 13 .110] M (30%) O (30%) 6 [-0.25] 20 [0.167] 3.47 10 K28[] the credit card payment syste 16 15 .114 L3. [] the credit card payment system, beside the consument system? 1 0.0331 4 23 20 ASSURANCE K14. The employee are good enough to give clearly explanation to customer regarding the services L16. The employees lack to explain the service provided and offered? M [40 **16** [0.1] 23 .142] F=0.450 DF=0.374 1.80 4.20) 4 [-0.357] 1 0.543 K11. [] Suggestion and comment column in the compa 25 [3.161] 22 [3.142] 26 [3.161] 27 [0.233] 18 L19. The company website provides the column for 21 3.97 12 I [43%] 0.10 K10[] onestion how for customers 1 [37%] [0.133] K23 [] Fee VIP set of table red carnet and er 24 [0.233 I [37%] A [33% E-0.81 4 13 16 DF=0.74 0.668 [0.528] K =0.656 L9. [] provides VIP set of table and equipment MPATHY 4.17 17 L7. [] the photography service for cust K24. [] Fee photography service for customers' e shoots, exclude photo printed) K30. [] and offers free design service for card in 30 21 14 4.37 A [47%] 30 [0.467] 26 [0.321] 21 [0.167] 3.113] 10 3.095] L1. The co mpany's services inclu A [37%] 4.17 18 [0.067] required by customers. K13. The employees are friendly to serve the talkative. friendship) M [27%] O [27%] F=0.436 DF=0.402 10 [-0.074] 10 [0.067] 12 (3.111)

Table 2: Results of Kano vs. Likert.