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THE EFFECT OF A CONTEXTUAL, ORGANIZATIONAL, INDIVIDUAL AND SYSTEM FACTORS ON CUSTOMER SATISFACTION OF CRM IMPLEMENTATION IN PUBLIC SECTOR IN OMAN

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DOCTOR OF PHILOSOPHY
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Abstract

A lot of benefits could be gained when implementing customer relationship management such as increased customer satisfaction, customer loyalty and often organizational benefits. Customer relationship management (CRM) refers to a system which manages the interactions of organizations with future customers as well as existing customers. The main purpose of this thesis was to develop an understanding of the effect of a contextual, organizational, individual and system factors on customer satisfaction of CRM implementation in public sector in Oman. The data collection measurement of this study is a survey questionnaire which is distributed to the employees who is working in organizations which implemented CRM system in the public sector. A total of 562 questionnaires were distributed to the respondents, 407 were returned and 356 cases were used for the analysis. The data collected is tested and analyzed by using the SPSS and Partial Least Squares (PLS). The study has presented empirical evidence for the influence and effect of variables on the implementation of CRM system in the public sector such as the significant effect of top management support, customer centered orientation, change management, end user training and data quality towards the Customer Satisfaction through the both mediators Output Quality and Perceived Quality.

This research provides a framework for studying the factors that affect CRM implementation through three previous theories and models (Expectation Disconfirmation Theory; An Integrated Model of CRM Implementation and a Model of Critical Success Factors for Public Sector CRM Implementation). Besides that, this research is one of very few CRM system implementation studies in the Middle East region. Also, there is a lack of research regarding the implementation of CRM in the Public Sector in Oman. Furthermore, the findings are also important for the Omani government if it seriously desires Oman to improve customer satisfaction with government services.

Keywords: Customer Relationship Management, Customer Satisfaction, Top Management Support, Customer Centered Orientation, and Change Management.

Abstrak

Banyak manfaat yang boleh didapati apabila pengurusan perhubungan pelanggan dilaksanakan antaranya mendorong peningkatan tahap kepuasan pelanggan, mendorong kesetiaan pelanggan dan memberi manfaat kepada organisasi. Pengurusan perhubungan pelanggan (CRM) merujuk kepada satu sistem yang menguruskan interaksi antara sesebuah organisasi degnan bakal pelanggan dan juga pelanggan sedia ada. Tujuan utama tesis ini adalah untuk memberi kefahaman tentang kesan faktor kontekstual, organisasi, individu dan sistem kepada tahap kepuasan pelanggan terhadap pelaksanaan CRM dalam sektor awam di Oman. Kaedah pengumpulan data bagi kajian ini adalah berbentuk soalan tinjauan yang telah diedarkan kepada pekerjapekerja vang bekerja di dalam organisasi yang melaksanakan sistem CRM di sektor awam. Soalan tinjauan telah diedarkan sebanyak 562 kepada responden, 407 telah dikembalikan dan sebanyak 356 kes telah digunakan untuk analisis data. Data yang dikumpulkan telah diuji dan dianalisa menggunakan perisian SPSS dan Kuasa Dua Terkecil Separa (PLS). Hasil kajian menunjukkan terdapat bukti empirikal terhadap pengaruh dan kesan pembolehubah kepada pelaksanaan sistem CRM di sektor awam antaranya kesan signifikan terhadap sokongan pengurusan atasan, orientasi berpusatkan pelanggan, pengurusan perubahan, latihan pengguna dan kualiti data ke arah Kepuasan Pelanggan melalui kedua-dua perantaraan Kualiti Pengeluaran dan Kualiti Dampak hasil dari kepuasan pelanggan terhadap pelaksanaan CRM dalam sektor awam.

Kajian ini menyediakan rangka kerja untuk mengkaji faktor-faktor yang mempengaruhi pelaksanaan CRM melalui tiga teori dan model-model terdahulu (Teori Ketidaksahan Jangkaan; Sebuah Model Intergrasi Terhadap Pelaksanaan CRM dan Model Faktor Kejayaan Kritikal Terhadap Pelaksanaan CRM dalam Sektor Awam). Selain itu, kajian ini merupakan satu daripada beberapa kajian yang mengkaji tentang pelaksanaan sistem CRM di wilayah Timur Tengah ini. Malah, terdapat kekurangan kajian berkenaan pelaksanaan CRM dalam Sektor Awam di Oman. Tambahan lagi, dapatan kajian ini juga sangat penting kepada kerajaan Oman jika ia benar-benar mahu Oman menambahbaik tahap kepuasan pelanggan terhadap perkhidmatan kerajaan.

Kata Kunci: Pengurusan Perhubungan Pelanggan, Kepuasan Pelanggan, Sokongan Pengurusan Atasan, Orientasi Berpusatkan Pelanggan, dan Pengurusan Terhadap Perubahan

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Table of Contents

Permission to use	i
Abstract	ii
Abstrak	iii
Acknowledgement	ii
Table of Contents	v
List of Tables	xii
List of Figures	xv
CHAPTER ONE	1
INTRODUCTION	
1.1 Introduction	1
1.2 Background of the study	6
1.3 Problem Statement	9
1.4 Research Objectives	15
1.5 Research Questions	
1.6 Scope of the study	16
1.7 Significant of the study	19
1.8 Definition of Key Terms	21
1.9 Operational Definition of Variables	22
1.9.1 CRM implementation success:	22
1.9.2 Customers' satisfaction	23
1.9.3 Output quality:	24
1.9.4 Perceived quality:	25
1.9.5 Top management support:	26
1.9.6 Customer centered orientation:	27
1.9.7 Change management:	28
1.9.8 End user training:	29

1.9.9 CRM Data quality:	29
1.10 Organization of the thesis	30
CHAPTER TWO	32
LITERATURE REVIEW	32
2.1 Introduction	32
2.2 Background	33
2.2.1 Background of Oman	33
2.3 Customers Relationship Management (CRM)	35
2.4 Dependent variable	43
2.4.1 Customer satisfaction of CRM implementation	43
2.5 Mediating Variable (MV)	48
2.5.1 Output Quality	48
2.5.2 Perceived Quality	52
2.6 Independent variables (IV)	55
2.6.1 Top management support	55
2.6.2 Customer Centered Orientation	60
2.6.3 Change management	63
2.6.4 End User Training	
2.6.5 Data Quality:	73
2.7 Theories and Frameworks	77
2.7.1 Expectation Disconfirmation Theory	77
2.7.2 Integrated model of CRM implementation	79
2.7.3 Model of Critical success factors for Public sector CRM implementation	81
2.7.4 Model of Organizational Capabilities for Successful CRM	85
2.7.5 Summary of Models	88
2.8 Proposed Framework	89
2.9 Hypotheses Development	92
2.9.1 The relationship between Output Quality and Customer Satisfaction	92
2.9.2 The relationship between Perceived Quality and Customer Satisfaction	92
2.9.3 The relationship of Top Management Support to Output Quality and Perceived Qu	ıality 93
2.9.4 The relationship of Customer Centered Orientation to Output Quality and Perceive	ed Ouality 94

2.9.5 The relationship of Change Management to Output Quality and Perceived Quality	96
2.9.6 The relationship of End User Training to Output Quality and Perceived Quality	98
2.9.7 The relationship of CRM Data Quality to Output Quality and Perceived Quality	99
2.9.8 The mediating role of Output Quality	101
2.9.9 The mediating role of Perceived Quality	103
2.10 Summary	105
CHAPTER THREE	106
METHODOLOGY	106
3.1 Introduction	106
3.2 Research Design	106
3.2.1 Purpose of the Study	106
3.2.2 Extent of Researcher Interference	108
3.2.3 Study setting (location)	108
3.2.4 Data Collection	
3.2.5 Population and Sample	109
3.2.5.1 Sample and sample size to be studied	111
3.2.6 Time Horizon	
3.3 Face Validity	113
3.4 Pilot Study	114
3.4.1 Data Reliability and Validity	115
3.4.2 Reliability	115
3.4.3 Validity (Factor analysis)	117
3.5 Data Collection Instrument and scales	121
3.5.1 Customer Satisfaction	121
3.5.2 Output Quality	121
3.5.3 Perceived Quality	123
3.5.4 Top Management Support	124
3.5.5 Customer Centered Orientation	125
3.5.6 Change Management	126
3.5.7 End User Training	127
3.5.8 CRM Data Quality	128

3.6 Data Collection Procedures	129
3.7 Data Analysis Method and Tool	129
3.8 Summary	131
CHAPTER FOUR	132
RESULTS AND DISCUSSION	132
4.1 Introduction	132
4.2 Response Rate	132
4.3 Demographic background of respondents	
4.4 Descriptive Analysis and Normality	136
4.4.1 Customer Satisfaction	137
4.4.2 Output Quality	138
4.4.3 Perceived Quality	139
4.4.4 Top Management Support	140
4.4.5 Customer Centered Orientation	141
4.4.6 Change Management	142
4.4.7 Training	
4.4.8 CRM Data Quality	144
4.5 Goodness of Measurement	
4.5.1 Goodness of Measure for Customer Satisfaction	145
4.5.2 Goodness of Measure for Output Quality	146
4.5.3 Goodness of Measure for Perceived Quality	148
4.5.4 Goodness of Measure for Top Management Support	149
4.5.5 Goodness of Measure for Customer Centered Orientation	150
4.5.6 Goodness of Measure for Change Management	151
4.5.7 Goodness of Measure for Training	152
4.5.8 Goodness of Measure for CRM Data Quality	153
4.6 Assessment of Measurement model	154
4.7 Assessment of Structural model	162
4.7.1 Analysis of R square (R ²)	162
4.7.2 Analysis of effect size (F ²)	164
4.7.3 Blindfolding and predictive relevance (Q²) analysis	165

4.7.4 Goodness-of-fit index (GoF) analysis	166
1.8 Testing of hypotheses	167
4.8.1 Output Quality and Customer Satisfaction	169
4.8.2 Perceived Quality and Customer Satisfaction	170
4.8.3 Top management support and Output Quality	172
4.8.4 Top management support and Perceived Quality	173
4.8.5 Customer Centered Orientation and Output Quality	174
4.8.6 Customer Centered Orientation and Perceived Quality	176
4.8.7 Change Management and Output Quality	177
4.8.8 Change Management and Perceived Quality	179
4.8.9 End User Training and Output Quality	180
4.8.10 End User Training and Perceived Quality	181
4.8.11 CRM Data Quality and Output Quality	183
4.8.12 CRM Data Quality and Perceived Quality	184
4.8.13 Result of mediating effect hypotheses	185
4.8.13.1 Output Quality mediates the relationship between Top Management Support and Customer Satisfaction	186
4.8.13.2 Output Quality mediates the relationship between Customer Centered Orientation and Customer Satisfaction	
4.8.13.3 Output Quality mediates the relationship between Change Management and Customer Satisfaction	190
4.8.13.4 Output Quality mediates the relationship between End User Training and Customer Satisfaction	
4.8.13.5 Output Quality mediates the relationship between CRM Data Quality and Customer Satisfaction.	192
4.8.13.6 Perceived Quality mediates the relationship between Top Management Support and Customer Satisfaction	193
4.8.13.7 Perceived Quality mediates the relationship between Customer Centered Orientation a Customer Satisfaction.	
4.8.13.8 Perceived Quality mediates the relationship between Change Management and Custor Satisfaction.	
4.8.13.9 Perceived Quality mediates the relationship between End User Training and Customer Satisfaction.	
4.8.13.10 Perceived Quality mediates the relationship between CRM Data Quality and Custom Satisfaction.	
1.9 Summary	201
·	
^HAPTER FIVE	201

CONCLUSION AND RECOMMENDATION	204
5.1 Introduction	204
5.2 Discussion of Findings	204
5.2.1 The relationship between Output Quality and Perceived Quality to Customer Satisfact	tion204
5.2.2 The relationship of Top Management Support to Output Quality and Perceived Quality	y:207
5.2.3 The relationship of Customer Centered Oriented to Output Quality and Perceived Qua	ılity: -209
5.2.4 The relationship of Change Management to Output Quality and Perceived Quality:	210
5.2.5 The relationship of End User Training to Output Quality and Perceived Quality:	212
5.2.6 The relationship of CRM Data Quality to Output Quality and Perceived Quality:	213
5.2.7 The mediating role of Output Quality:	215
5.2.8 The mediating role of Perceived Quality:	
5.3 Summary of research findings:	222
5.3.1 To examine the effect of:	
5.3.1.1 Output Quality and Perceived Quality on Customer Satisfaction of CRM implem	entation
5.3.1.2 Contextual factor (Top Management Support) on Output Quality and Perceived Ctoward CRM implementation	Quality
5.3.1.3 Organizational factor (Customer Centered Orientation and Change Management) Output Quality and Perceived Quality toward CRM implementation	
5.3.1.4 Individual factor (End User Training) on Output Quality and Perceived Quality to CRM implementation	oward 225
5.3.1.5 System factor (Data Quality) on Output Quality and Perceived Quality toward Climplementation.	
5.3.2 Formulate one integrated framework for CRM implementation:	226
5.4 Theoretical contribution	229
5.5 Practical Contribution	232
5.6 Limitations of the Study	235
5.7 Recommendations for Future Studies	236
5.8 Conclusion	238
REFERENCES	241
APPENDIX A	268
Pilot study analysis	268

APPENDIX B	288
Analysis Questionnaire	288



List of Tables

Table 1. 1 Six organization out of fifty implemented CRM system in Oman	10
Table 1. 2 Target population in the previous studies	14
Table 1. 3 Previous Studies Target Respondents	18
Table 2. 1 Summary of Models	88
Table 3. 1 Target population in the previous studies	110
Table 3. 2 Distribution percentage	112
Table 3. 3 Distribution Numbers	112
Table 3. 4 Reliability results	116
Table 3. 5 Validity summary (Factor Analysis)	117
Table 3. 6 Customer Satisfaction Data Collection Instruments	121
Table 3. 7 Output Quality Data Collection Instruments	122
Table 3. 8 Perceived Quality Data Collection Instruments	123
Table 3. 9 Top Management Support Data Collection Instruments	124
Table 3. 10 Customer Centered Orientation Data Collection Instruments	125
Table 3. 11 Change Management Data Collection Instruments	126
Table 3. 12 End User Training Data Collection Instruments	127
Table 3. 13 CRM Data Quality Data Collection Instruments	128
Table 4. I Same of municipa study Pagnanae Pates in Oman	122
Table 4. 1 Some of previous study Response Rates in Oman	
Table 4. 3 Frequency descriptive	
Table 4. 4 Frequency descriptive Table 4. 5 Mean Values and Normality for Customer Satisfaction Items	
Table 4. 6 Mean Values and Normality for Output Quality Items	
Table 4. 7 Mean Values and Normality for Perceived Quality Items	
Table 4. 8 Mean Values and Normality for Top Management Support Items	
Table 4. 9 Mean Values and Normality for Customer Centered Orientation Items	141
Table 4 TO Mean Values and Normalliv for Unange Management flems	142

Table 4. 11 Mean Values and Normality for Training Items	143
Table 4. 12 Mean Values and Normality for CRM Data Quality Items	144
Table 4. 13 Result of Factor Analysis for Customer Satisfaction	146
Table 4. 14 Result of Factor Analysis for Output Quality	147
Table 4. 15 Result of Factor Analysis for Perceived Quality	148
Table 4. 16 Result of Factor Analysis for Top Management Support	149
Table 4. 17 Result of Factor Analysis for Customer Centered Orientation	150
Table 4. 18 Result of Factor Analysis for Change Management	151
Table 4. 19 Result of Factor Analysis for Training	152
Table 4. 20 Result of Factor Analysis for CRM Data Quality	153
Table 4. 21 Convergent Validity Analysis	155
Table 4. 22 Correlation between latent variables and square roots of average variance extracted	158
Table 4. 23 Cross loading	159
Table 4. 24 R-squared of the Endogenous latent Variable	163
Table 4. 25 Effect size of latent variables	164
Table 4. 26 Prediction relevance of the model	
Table 4. 27 Goodness-of-fit index (GoF)	
Table 4. 28 Path coefficient for H1	169
Table 4. 29 Path coefficient for H2	171
Table 4. 30 Path coefficient for H3	172
Table 4. 31 Path coefficient for H4	174
Table 4. 32 Path coefficient for H5	175
Table 4. 33 Path coefficient for H6	177
Table 4. 34 Path coefficient for H7	178
Table 4. 35 Path coefficient for H8	179
Table 4. 36 Path coefficient for H9	181
Table 4. 37 Path coefficient for H10	182
Table 4. 38 Path coefficient for H11	183
Table 4. 39 Path coefficient for H12	185
Table 4. 40 Indirect effect Calculation for H13	187
Table 4. 41 Direct effect Calculation for H13	187
Table 4. 42 Indirect effect Calculation for H14	189
Table 4. 43 Direct effect Calculation for H14	189
Table 4. 44 Indirect effect Calculation for H15	190

Table 4. 45 Indirect effect Calculation for H16	191
Table 4. 46 Indirect effect Calculation for H17	192
Table 4. 47 Indirect effect Calculation for H18	193
Table 4. 48 Direct effect Calculation for H18	194
Table 4. 49 Indirect effect Calculation for H19	195
Table 4. 50 Direct effect Calculation for H19	196
Table 4. 51 Indirect effect Calculation for H20	197
Table 4. 52 Direct effect Calculation for H20	197
Table 4. 53 Indirect effect Calculation for H21	199
Table 4. 54 Indirect effect Calculation for H22	200
Table 4. 55 Direct effect Calculation for H22	200
Table 4. 56 Summary of all hypothesis's findings	202
Table 5 1 Summary of all hypothesis's findings	227



List of Figures

Figure 2. 1: Expectation disconfirmation theory	78
Figure 2. 2: Integrated model of CRM implementation.	81
Figure 2. 3: Model of Critical success factors for Public sector CRM implementation	84
Figure 2. 4: Model for successful implementation for the CRM system.	87
Figure 2. 5: Proposed Framework	91
Figure 4. 1: Proposed Framework in PLS-SEM.	168
11gule 7. 1. 1 roposed Framework in 1 Lo-5EM	100



CHAPTER ONE

INTRODUCTION

1.1 Introduction

Information technology systems are very important for a country's development and growth. Also, it is important for every country as they affect both business and society. Almost all aspects of daily life have been influenced by information technology, such as: economy, health, education, communication and entertainment fields (Ramey, 2012). For instance, in the economy, when computers and system software were first introduced and used, the business world changed, and no organization could survive without the technology.

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Oman has set plans in phases every five year since 1976. Every phase of five year plan focusses on different aspects of development. The 8th five-year plan (2011-2015), emphasizes "the establishment of knowledge pillars which in turn will improve overall productivity and competitiveness of the economy. The Government has given special adherence to speed the implementation of Oman Digital society and Scientific Research. The Eighth Plan also gave emphasis on the creation of efficient Government administration and up gradation of statistics" (GBCM, 2011, p.13).

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APPENDIX A

Pilot study analysis

1- Factor analysis: Customer Satisfaction

Compo Matrix	
	Component
	1
CS1	.820
CS2	.917
CS3	.927
CS4	.817
	on Method: I Component
a. 1 com	iponents d.

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Reliability: Customer Satisfaction

Case Processing Summary			
		N	%
Cases	Valid	91	100.0
	Excludeda	0	.0
	Total	91	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics		
Cronbach's Alpha	N of Items	
.890	4	

2- Factor analysis: Output Quality

Compo	onent Matr	'ix ^a	
	Component		
	1	2	3
OQ1	.206	.619	.577
OQ2	.566	.449	.337
OQ3	.563	.480	034
OQ4	.595	.162	542
OQ5	.609	.306	346
OQ6	.689	114	.257
OQ7	.540	.228	471
OQ8	.726	406	.161
OQ9	.817	196	045
OQ10	.793	376	.185
OQ11	.770	295	.121
Extraction Analysis	on Method: Pr	incipal Comp	oonent
a. 3 com	ponents extra	acted.	

269

Component Matrix ^a		
	Component	
	1	2
OQ2	.549	.198
OQ3	.555	.443
OQ4	.600	.436
OQ5	.606	.436
OQ6	.684	246
OQ7	.545	.467
OQ8	.734	409
OQ9	.823	122
OQ10	.797	413
OQ11	.774	306

a. 2 components extracted.

Component Matrix ^a		
	Component	
	1 2	
OQ2	.548	.309
OQ3	.541	.540
OQ4	.580	.466
OQ5	.588	.476

OQ6	.694	220
OQ8	.759	347
OQ9	.825	096
OQ10	.819	372
OQ11	.789	268
Extraction Method: Principal		

a. 2 components extracted.

Component Matrix ^a		
	Component	
	1	2
OQ2	.515	.093
OQ4	.567	.658
OQ5	.576	.644
OQ6	.702	200
OQ8	.771	335
OQ9	.823	076
OQ10	.850	249
OQ11	.814	146
Extraction Method: Principal		

Extraction Method: Principal Component Analysis.

a. 2 components extracted.

-		
Component Matrix ^a		
	Component	
	1	
OQ2	.521	
OQ5	.529	
OQ6	.729	
OQ8	.795	
OQ9	.820	
OQ10	.867	
OQ11	.819	
Extraction Method: Principal Component Analysis.		
a. 1 components extracted.		

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Reliability: Output Quality

Case Processing Summary			
		N	%
Cases	Valid	91	100.0
	Excludeda	0	.0
	Total	91	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics		
Cronbach's Alpha	N of Items	
.858	7	

3- Factor analysis: Perceived Quality

Component Matrix ^a		
	Component	
	1 ALIN	2
PQ1	.752	170
PQ2	.694	232
PQ3	.681	347
PQ4	.703	484
PQ5	.775	461
PQ6	.783	044
PQ7	.719	.179
PQ8	.600	.311
PQ9	.603	.144
PQ10	.357	.541
PQ11	.646	.587
PQ12	.659	.429

a. 2 components extracted.

Component Matrix ^a		
	Component	
	1	2
PQ1	.761	134
PQ2	.715	118
PQ3	.704	317
PQ4	.741	438
PQ5	.810	397
PQ6	.788	.031
PQ7	.707	.296
PQ8	.565	.261
PQ9	.603	.326
PQ10	.314	.613
PQ12	.619	.461
Extraction Method: Principal Component Analysis.		
a. 2 components extracted.		

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a. 2 components extracted.

Component Matrix^a Component

	1	2
PQ1	.760	180
PQ2	.715	146
PQ3	.714	283
PQ4	.754	398
PQ5	.822	364
PQ6	.783	002
PQ7	.705	.413
PQ8	.560	.325
PQ9	.594	.334
PQ12	.614	.608
Extraction Method: Bringing		

a. 2 components extracted.

Component Matrix ^a	
	Component
	1
PQ1	.776
PQ2	.724
PQ3	.734
PQ4	.778
PQ5	.844
PQ6	.781

PQ7	.674
PQ8	.535
PQ9	.582
Extraction Method: Principal Component Analysis.	
a. 1 components extracted.	

Reliability: Perceived Quality

Case P	rocessing	Sum	mary	
		N	ISA	%
Cases	Valid		91	100.0
	Excludeda	BAKE	0	nive r
	Total		91	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics		
Cronbach's Alpha	N of Items	
.877	9	

4- Factor analysis: Change management

Component Matrix ^a		
	Component	
	1	2
CM1	.371	.693
CM2	.767	.458
СМЗ	.817	.293
CM4	.843	.162
CM5	.879	118
СМ6	.834	340
СМ7	.793	423
CM8	.771	340
	U	TAR

a. 2 components extracted.



Component Matrix ^a		
	Component	
	1	2
CM2	.747	.490
СМЗ	.813	.458
CM4	.842	.300
CM5	.886	036
СМ6	.844	368
СМ7	.808	432
CM8	.780	384

 $a.\ 2\ components\ extracted.$

Component Matrix ^a	
	Component
	1
СМЗ	.775
CM4	.823
CM5	.890
CM6	.871
СМ7	.843
CM8	.806
Extraction Method: Principal Component	

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a. 1 components extracted.

Analysis.

Reliability: Change management

Case Processing Summary			
		N	%
Cases	Valid	91	100.0
	Excludeda	0	.0
	Total	91	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics	
Cronbach's Alpha	N of Items
.912	6

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5- Factor analysis: CRM Data

Component Matrix ^a		
	Component	
	1	
DATA1	.767	
DATA2	.560	
DATA3	.806	

DATA4	.831	
DATA5	.580	
DATA6	.763	
Extraction Method: Principal Component Analysis.		
a. 1 components extracted.		

Reliability: CRM Data

Case Processing Summary				
		N		%
Cases	Valid		91	100.0
	Excludeda		0	.0
	Total	BALL	91	100.0

a. Listwise deletion based on all variables in the procedure.



Reliability Statistics			
Cronbach's Alpha	N of Items		
.817	6		

6- Factor analysis: Customer centered orientation

Component Matrix ^a			
	Component		
	1 2		
CCO1	.801	196	
CCO2	.855	277	
CCO3	.879	131	
CCO4	.889	082	
CCO5	.783	.308	
CCO6	.388	.877	

a. 2 components extracted.

Component Matrix ^a		
	Component	
1		
CCO1	.812	
CCO2	.872	
CCO3	.886	
CCO4 .894		
CCO5 .762		
Extraction Method: Principal Component		

Analysis.

a. 1 components extracted.

Reliability: Customer centered orientation

Case Processing Summary				
N %				
Cases	Valid	91	100.0	
	Excludeda	0	.0	
	Total	91	100.0	

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics		
Cronbach's Alpha	N of Items	
.899	5	

7- Factor analysis: Top management support

_	Component Matrix ^a		
	Component		
	1		
TMS1	.738		
TMS2	.913		
TMS3	.847		
TMS4	.918		
TMS5	.862		
TMS6	.850		
TMS7	.735		
Extraction Method:			
Principal Component			
Analysis	BUDI BUDI		
a. 1 com	ponents		

extracted.



Reliability: Top management support

Case Processing Summary				
N %				
Cases	Valid	91	100.0	
	Excludeda	0	.0	
	Total	91	100.0	

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics			
Cronbach's Alpha	N of Items		
.928	7		

8- Factor analysis: Training

Componer	nt Matrix ^a	SYYS			
5	Component				
	Bunt Bay	2 Un	iversi	ti Utar	а Ма
TRAINING1	.800	187			
TRAINING2	.820	145			
TRAINING3	.397	.759			
TRAINING4	.688	.147			
TRAINING5	.306	.802			
TRAINING6	.774	192			
TRAINING7	.810	285			
Extraction Me Component A	-	1			
a. 2 compone					

Component Matrix ^a			
	Component		
	1 2		
TRAINING1	.815	002	
TRAINING2	.835	.102	
TRAINING3	.342	.855	
TRAINING4	.677	.234	
TRAINING6	.782	293	
TRAINING7	.824	372	
Extraction Method: Principal			

Extraction Method: Principal

Component Analysis.

a. 2 components extracted.

Component Matrix ^a					
	Component				
	1				
TRAINING1	.816				
TRAINING2	.832				
TRAINING4	.665				
TRAINING6	.792				
TRAINING7	.845				
Extraction Method: Principal Component Analysis.					

a. 1 components extracted.

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Reliability: Training

Case Processing Summary							
		N	%				
Cases	Valid	91	100.0				
	Excludeda	0	.0				
	Total	91	100.0				

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics					
Cronbach's Alpha	N of Items				
.850	5				



APPENDIX B

Analysis Questionnaire

You are invited to participate in this questionnaire, about the implementation of Customer Relationship Management system in Public Sector in Oman. I will be appreciated for your cooperation and answering the questionnaire. In this questionnaire, I would like to ask about the factors that affect the implementation of Customer relationship management system in Public Sector. With your cooperation, I can generate report regarding the best way to implement customer relationship management system in public sector which will enhance the society satisfaction regarding the government services.

The information you provided will be strictly confidential and the result of this research will be used for academic purposes.

The time expected for this questionnaire is 10 minutes, and your answer is important for my study, thank you very much for your cooperation. If you have any comment or question regarding this research, please let me know:

Name: Ahmed Said Al Arafati

University: University Utara Malaysia

E-mail: ahmed.arafati@hotmail.com

ي طيبلي دوجتكم لمشارلة في الهندات بيان حوتلطبيق نظام إدارة عالق التعمال عفي للقطاع له علم عيل الطنة عمان سرافئ ممتركات عانكم ولمثرالة في الرجاء على هذا للدوبي ان في هذا للدوبي ان أود الدوب تحصل العوام للهي توثر لهي تفني ذن ظام إدارة المحقومة في القطاع للعام عمش الدوب المحتود المحتودة المحت

ستكون لم ع ومك س وييقيتم است خوامتيج ة وذل بحثل أل غراض ألط الهاهية فقط.

لهق تلام توق على الفلات بي ان دو 10 دقع أق، وإلهتك مدمة لدرلت يوشكرا جني التعانكم. إذا كان الوياي تعلي ق أو لتفسس ارحول دذل بحث شيرفن يتواصل ك:

االسم: أجمسعي في المرفلتي

الجامعة: جامعة وأتارا لهاي في

بلاید للكتونى: ahmed.arafati@hotmail.com

Demographic Information

Gei	nder				
() Male ذكر				() Female انٹی
Ago	لاعمر e				
() 20-30 () 31-40		() 41-50 () 51 & more
Lev	vel of education پيمي	يتو يت لخا	المس		
() High school	_	' Colleg	e	() Bachelor's degree
	شلاوية عامة		دبلوم		ب ال ەورىس
() Master degree) PhD		
Ì	لمجست		ك ك ك وراة		
		Univ	ersit	i	Utara Malaysia
Exp	لخرة perience				
() Less than five years			() 5-10 years
	اق ل من کن ات				5-10نوات
() 11-15 years			() 16 years or more
	11- 15ىنة				الثاثر من 16سنة
You	ur position إ				
() General Manager		(() Vice of General Manager
	هير عام				ن في به مير عام
() Department Manag	er	(() Employee
	هيردائرة				موظف

	Customer Satisfaction	Strongly disagree	Disagree ال اوفكق 2	Neutral نتاع ادل ع	Agree وأافق	Strongly Agree
		•	-	ŭ	•	
1.	Overall, I am satisfied with government services experience.					
	بشكل عام الأراضي عن تعجت بالخدما الحكومية					
2.	I will be happy to have the government services again.					
	سأكوضعيداً السخدامي لخدمات لكوه في ة مرة أخرى					
3.	You would recommend the government service to others.					
	انص اللخري نابس ت خدام ال خدمات لل حلى مي ة مرة اخرى					
4.	Considering the type of government unit, the quality of service was excellent.					
	بلانظر إلى نوع لوحدة المحكومية، جودة المخدمة المناسم متازة					

	Output Quality Universiti	Strongly disagree ال أوفكقيشدة	Disagree ال اوفائق	Neutral نتاع ادل	Agree وأافق	Strongly Agree وأافقيشدة
		1	2	3	4	5
5.	My organization employees are well dressed and appear neat.					
	المع الجين لدى لوحدة له ي اعمل ما يظهون بالهبسن في وقطيفة					
6.	My organization is dependable.					
	لوحد قلتي اعلم باديمكن العماد لهي دا					
7.	When implementing CRM system, the organization provide the service at the time it promises to do so.					
	يود عليت في م لخدة في لهقت لمحددل دانظام إدارة عالقات للعمال،					
8.	Employees of my organization tell customers exactly when service will be performed.					
	وظفي لوحدالتي اعلم به ليخبرونال عمال علمط بالطبعي يتم وظفي لوحدال المناهبي في المناهبي والمناهبي والمناهب					

9.	Employees of my organization give prompt service to customers. ويظفي لوحدالتي اعلى بما يفرون خدمة س عةل عمال ع			
10.	Employees of my organization are always willing to help customers.			
	ويظفي لوحدل اي اعلى به ا، ه دائم الح السمس عدة الماء العمال على ال			
11.	Employees of my organization are never too busy to respond to customer requests promptly.			
	بداللرد في فلبات مظفي لوحدقت اعلى بداللرد على للعمال عالم الله العمال العمال على العمال العم			

	Perceived Quality	Strongly disagree	Disagree ال اوفكق	Neutral نتاعادل	Agree وأافق	Strongly Agree وأافقيشدة
	When implementing CRM system: عنحفني ذنظام إدارةلاعمالء	1	2	3	4	5
12.	The organization is dependable when providing services المنظة يمكنالعتماد لهي داعك تتقيم لخدمات	Utara M	alaysi			
13.	The organization has staff who are technically able to perform the service.	Otara M	alaysi			
	لمنظمة وظفون قادرونقتني على أداء الخدمة					
14.	Reports prepared by the organization are easily to understand					
15.	من السائع ف طهنت قالي را التي أعت ه المنظمة The organization provides prompt service المنظمة شفر خدم تصريعة					
16.	The organization provides timely service موف راامن ظمة ل خدة في الهقت لمحددل ١٥					
17.	The customers experienced confidentially in transactions with the employees of the organization يظ در في ال عمال عمال على الراج في الناع المل مع موظلي لهنظمة					

18.	The employees of the organization received enough support from their organization to perform their task well			
	ي التقى وظف ي المنظمة في كفي من لدعم منهن ظمت دم ألداء م دام دم يون في المنظمة منهن الله جيد			
19.	The service offered by the organization is appropriate with the fees charged			
	الخد فهقته ي تقدم ها لفظمة طين بة معلاس وم لفروضة			
20.	The organization has modern equipment with latest information technology			
	تمتلك لمنظمة معدات يهيثة مزود قبأحدث فلتنيات			

	Change management When implementing CRM system: چنت فی نن فام ادارة العمال ۶	Strongly disagree ال أوفكقيشدة 1	Disagree ال اوفكاق 2	Neutral ناع عادل 3	Agree وأافق 4	Strongly Agree وأافقيشدة 5
21.	There is a commitment to change-perseverance and determination. من الثلاث الويت عين من فليق غي ي		M			
22.	There is Business process re-engineering to match the new software. من لك عمية إعادة مصة االجراعات السب معليون امج الحيد	Utara M	alaysia	3		
23.	There is an Analysis of user feedback هن ك تاجي للم ال عظ مستخدم لن ظام					
24.	There is User education and training. ەنڭ تاچىم فاتدىبالىمەت خدم لىنظام					
25.	There is User support and involvement.					
26.	There is IT workforce re-skilling.					

	CRM Data	Strongly disagree ال أوف قبشدة	Disagree ال اوفكق 2	Neutral نتاعادل 3	Agree أوفكق 4	Strongly Agree قرافقیشدة
		1	2	3	4	3
27.	The CRM system provides accurate information about customers					
	ويفر الفظام مع ومانتق عقة عن لاعمال ع					
28.	Information on the CRM system should be completed					
	ينبغي استكمال لمغيومات لموجودبنظام إدارة والقات للعمالء					
29.	Information about customers on the CRM system is a be up to date					
	لم على ومانتلىمت في ققة عن العمال على المعربة على نظام إدارة عالقات العمال عمال عصف بشكل سي تمر					
30.	The Information provided by the CRM system is understandable		M			
	لم غيومات ل قدم قنم قب لن ظام إدارة الى قات لاعمال عمف دومة					
31.	The CRM system should provide information whose content meets customers need	IIItawa M	alavci			
	يجب أن في فسر الن ظام مغى ومات في المحتي احتي اجات للعمال ع	Utara M	alaysi			
32.	The CRM system provides the target reports					
	ي ف رالن ظام التق اري ر ل م طوبة					

	Customer centered orientation When implementing CRM system: عن تفني ذنظام إدارة للعمالء	Strongly disagree ال أوفكقبشدة 1	Disagree ال اوفلق 2	Neutral نتاعادل ع	Agree وأافق 4	Strongly Agree وَالْفَقِيشِدَة 5
33.	We encourage customer comments and complaints because they help us to do a better job					
	نحن نشج مالحظاتلاعمال، واشك و وألن متساعن العلى والي الم بهم افضل					
34.	We have a strong commitment to our customers المين المات و العالم المات					
35.	We are always looking at ways to create customer value in our services					
	نحندائ فبحث عن طرق ل في مة لعمال في خلمنا					
36.	We are fast to detect changes in our customers' service preferences.		M			
	يف بن		Y I			
37.	Data on customer satisfaction is disseminated at all levels in this organization on a regular basis	Utara M	alaysia	1		
	يتن شلىبايلات عنرض العطلء في يهمي في طسى النفي التفي هذه المنظمة شكل دوري					

	Top management support	Strongly disagree ال أوف ق شدة	Disagree ال اوفائق	Neutral نته عادل	Agree أوفكق 4	Strongly Agree الفقيشدة
38.	When implementing the system, top level management involvement is strong عنتطبيقالنظامفانمشركة الدارة للاعيا حضرتوقوية					
39.	Top management is interested in CRM implementation الدارة لللهي المتمتسين أودارة اللهات العملء					

40.	Top management understand the importance of CRM			
	إلىدارة لللهي تدرك اهمية ادارة عالق التلاعمال ع			
41.	Top management support the CRM implementation			
	تدعم إلدارة للطهيتفتي ذ إدارة عالقات لعملء			
42.	Top management consider CRM as a strategic resource			
	تعتبر إلدارة للعطيب أن إدارة الحقات لعملء مورسارات يجي			
43.	Top management understand CRM opportunities			
	تف مم إلدارة للغي المي قفرص إدارة الى قاتلاع مال ع			
44.	Top management keep the pressure on operating units to work with CRM			
	اللاعلي النقوم على مأباه فع على وحدات فتش في للعمل في ادارة			
	عالق التالعمالء			
			ı	1

	Training When implementing CRM system: عن تفني ذنظام إدار قالعمالء	Strongly disagree الوالفقشدة	Disagree الواافق ع	Neutral מדשונט 3	Agree أوفق 4	Strongly Agree افلق بشدة 5
45.	The training activities should be planned from the beginning ينبغوللخطيطالتيديب من للبداية					
46.	The training is provided for developing the skills and knowledge needed to perform software managerial and technical roles وي مع وففي رالت دي بلينطوي رام دارات ولم عارف الالزمة ألداء ألدوار إلى الم المرابع المنافية المنافقة ال					
47.	The organization should follow a written organizational policy to meet its training needs منبغ في شتبعلمنظمة سليسة ينظيم يخ مكتوبظلة بية المحتوالية المتعادية المتعادية					

48.	There Should be a measurement used to determine the quality of the training program		
	ينبغي أن ي كون هن التهمي اس ل هيد جودة المرن ام جا التي بي		
49.	The training program activities should be reviewed with senior management on a periodic basis بغي استعرض أشطقبرام المجانوي مع الدارة للطيب شكل دوري		

