

Executive Report on Sony Electronics

SONY ELECTRONICS, INC. (SEL) HOW SONY MARKETS, SELLS, DISTRIBUTES AND DEVELOPS IN THE US

Table of Contents

1.	INTRODUCTION	1-1
1.1	ABOUT PETROV GROUP.....	1-1
1.1.1	Why Should You Engage Our Services.....	1-1
1.1.2	First-Hand Sources	1-2
1.1.3	Relationship and Benefits	1-3
1.1.4	This Report – Examples of Follow-up Engagements	1-3
1.2	OUR EXECUTIVE REPORTS IN DEVELOPMENT	1-4
1.2.1	How STM (Thomson Microelectronics) Generates Mixed-Signal SoC Revenue.....	1-4
1.2.2	How to Win ASIC Design.....	1-4
1.2.3	How to Reduce the Cost and Increase the Productivity of the SoC Development Chain.....	1-5
2.	REPORT SCOPE AND TERMS OF USE.....	2-1
2.1	REPORT SCOPE.....	2-1
2.2	METHODOLOGY USED – PRIMARY SOURCES	2-2
2.3	TERMS OF PETROV GROUP LICENSE AGREEMENT	2-3
2.3.1	License.....	2-3
2.3.2	Term	
2.3.3	Limited Warranty.....	2-4
2.3.4	General	2-5
3.	EXECUTIVE SUMMARY.....	3-1
4.	OVERVIEW OF SONY CORPORATION.....	4-1
4.1	BUSINESS AND FINANCIAL PERSPECTIVE WITH FOCUS ON ELECTRONICS SECTOR.....	4-1
4.2	SONY’S TERMINOLOGY AND ITS IMPORTANCE	4-3
4.3	ANALYSIS OF SONY FY01 REVENUE STREAMS	4-4
4.4	ANALYSIS OF SEL FY01 REVENUE STREAMS	4-7
4.5	CORPORATE ORGANIZATIONAL UNITS AND FUNCTIONS RELATED TO ELECTRONICS SECTOR BUSINESS.....	4-9
4.5.1	Global Hub, Strategy Platform and Strategy Institute.....	4-12
4.5.2	Five Types of Organizations Within Electronics Sector.....	4-14
4.5.3	Five Network Companies of Electronics Sector.....	4-17

4.5.4	Support Organizations of Sony Network Companies	4-20
4.6	IMPACT OF CORPORATE STRATEGY EVOLUTION SINCE APRIL 2002.....	4-23
4.6.1	Organizational Impact In Japan.....	4-23
4.7	OVERVIEW OF SONY FY01 MOVEMENT OF GOODS.....	4-25
4.8	ENTERTAINMENT ROBOT COMPANY – A CONTROVERSY?	4-27
5.	SONY ELECTRONICS POSITION WITHIN SONY CORPORATION OF AMERICA (SCA).....	5-1
5.1	SONY CORPORATION OF AMERICA (SCA).....	5-1
5.2	SONY ELECTRONICS CORPORATE ENTITIES	5-4
5.2.1	EMCS-A (Engineering, Manufacturing, Customer Service – America)	5-4
5.2.2	Entertainment Robot America (ERA) Company	5-6
5.2.3	Design Center	5-6
5.2.4	Sony Retail and Factory Outlet Stores.....	5-6
5.2.5	Corporate Marketing Division	5-6
5.2.6	Consumer Segment Marketing Group.....	5-7
5.2.7	Other Corporate Groups	5-8
5.2.8	Network & Software Technology Center of America (NCSA).....	5-9
5.3	SEL SELLING MACHINE	5-9
5.3.1	Business Solutions & Systems Company (BSSC).....	5-11
5.3.1.1	Sony Pictures Entertainment Company	5-12
5.3.2	Six Products Divisions, Described by Sony as Marketing Divisions	5-12
5.3.3	Three Sales Companies	5-13
5.4	SONY ELECTRONICS ORGANIZATIONAL STRUCTURE.....	5-13
5.4	SEL HEADCOUNT OVERVIEW	5-16
6.	SONY ELECTRONICS COMPANIES AND DIVISIONS.....	6-1
6.1	BUSINESS SOLUTIONS & SYSTEMS COMPANY (BSSC).....	6-1
6.1.1	Broadcast & Professional Systems Division (BPSD)	6-6
6.1.2	Application System Division (ASD).....	6-6
6.2	VISUAL NETWORK PRODUCTS DIVISION (VNPD)	6-9
6.3	PERSONAL MOBILE PRODUCTS DIVISION (PMPD).....	6-11
6.4	HOME ENTERTAINMENT PRODUCTS DIVISION (HEPD)	6-13
6.5	DIGITAL IMAGING PRODUCTS DIVISION (DIPD).....	6-13
6.6	INFORMATION TECHNOLOGY PRODUCTS DIVISION (ITPD).....	6-16
6.7	SEMICONDUCTOR & ELECTRONIC DEVICE DIVISION (SEDD).....	6-17
6.8	CONSUMER SALES COMPANY (CSC)	6-21
6.9	CORPORATE & PROFESSIONAL SALES COMPANY (CPSC)	6-21
6.10	e-SOLUTIONS COMPANY	6-24
7.	GEOGRAPHIC PRESENCE BY MAJOR FUNCTIONS IN NORTH AMERICA.....	7-1
7.1	OVERVIEW OF NINE LOCATION CATEGORIES.....	7-2
7.2	MANUFACTURING SITES.....	7-1

7.3	LOGISTICS CENTERS	7-5
7.4	DESIGN CENTER SITES.....	7-5
7.5	SONY STYLE RETAIL STORES.....	7-6
7.6	CONSUMER SALES OFFICE AND PRODUCT CENTERS.....	7-6
7.7.	SERVICE AND REPAIR CENTRES.....	7-6
7/8	TECHNOLOGY CENTERS AND US RESEARCH LABORATORIES (USRL).....	7-7
7.9	SONY ELECTRONICS (SEL) FIELD OFFICES.....	7-7
7.10	OTHER SEL LOCATIONS.....	7-8
8.	TECHNOLOGY CENTERS AND RESEARCH PRESENCE IN THE US.....	8-1
8.1	OVERVIEW AND ROLE.....	8-1
8.2	NETWORK & SOFTWARE TECHNOLOGY CENTER OF AMERICA (NSCA)	8-1
8.2.1	e-Platform Technology Center (ePTC).....	8-3
8.2.2	Sony Technology Center – San Diego (STC-SD).....	8-3
8.2.3	Sony Technology Center – Pittsburgh (STC-P).....	8-4
8.3	US RESEARCH LABORATORIES (USRL).....	8-4
9.	HOW SONY SERVICES THE US MARKET	9-1
9.1	DESCRIPTION OF SONY SERVICES.....	9-1
9.1.1	Logistics Centers	9-3
9.1.2	World Repair Parts Center (Americas) (WRPC-AS)	9-3
9.1.3	Customer Information Service Center (CISC).....	9-4
9.1.4	Sony Service Company (SSC).....	9-5
9.2	HIERARCHY OF SERVICE AND REPAIR ORGANIZATIONS.....	9-5
9.2.1	Four Hubs Connected By Online Hub.....	9-5
9.2.2	Service Infrastructure Backbone and Its Mission	9-8
9.3	SERVICE AND REPAIR CENTERS.....	9-9
9.4	RETAIL STORES AND FACTORY OUTLETS.....	9-10
9.5	CONSUMER SALES OFFICES AND CONSUMER PRODUCT CENTERS (CPC).....	9-10
9.6	MANUFACTURING AND CUSTOMER SERVICE PLATFORM COMPANY	9-10
9.6.1	Manufacturing Operations	9-11
9.6.2	Consumer Service Operations.....	9-13
10.	SONY BRAND STRAEGY.....	10-1
10.1	TWO SONY’S IN ONE.....	10-1
10.1.1	Product Metamorphosis.....	10-3
10.2	SONY’S US BRANDING STRATEGY EVOLUTION.....	10-8
11.	BLUEPRINT OF SONY’S MARKETING AND SELLING MACHINE IN THE US	11-1
11.1	BLUEPRINT’S FIRST LAYER.....	11-1
11.2	BLUEPRINT’S SECOND LAYER.....	11-3
11.3	BLUEPRINT’S THIRD LAYER.....	11-5
11.4	BLUEPRINT’S FOURTH LAYER.....	11-6
11.5	SEL SALES COVERAGE OF NORTH AMERICA.....	11-8

11.5.1	Market Segment Based Coverage	11-8
11.5.2	Vertical Industries Based Coverage.....	11-8
11.5.3	Broadcast Networks and Production Studios Coverage	11-10
11.5.4	OEM Based Coverage.....	11-11
11.5.5	Retail Accounts Based Coverage	11-11
11.5.6	Cyber Zone Based Coverage	11-11

List of Figures

1-1	<i>Astra</i> Benchmark Case – Development Cycle Times	1-6
1-2	Interconnect Hierarchy and Structure	1-7
1-3	Interconnect Technology.....	1-8
1-4	System House – Interconnect Organization and Role	1-9
1-5	SoC Design Chain	1-10
1-6	SoC Chain Concepts – The SoC Cube™	1-11
1-7	SoC Development Chain.....	1-12
4-1	FY01 Revenues By Sector	4-1
4-2	FY01 Financial Performance By Sector	4-4
4-3	Electronics Sector – FY01 Financial Performance By Product Category	4-5
4-4	Electronics Sector – FY01 Sales By Customer Location	4-6
4-5	Global Consumer Entertainment Company	4-10
4-6	Sony Corporation (Japan) – Top View Corporate Structure.....	4-13
4-7	Five Network Companies.....	4-16
4-8	Top-Down Naming Discipline.....	4-17
4-9	Sony Network Companies – Support Organizations.....	4-21
4-10	Movements of Goods Shipped.....	4-26
4-11	AIBO: Some of the Technologies Used in Quadruped and Android Robots	4-29
5-1	Sony Corporation of America – Corporate Structure	5-2
5-2	Sony Universe in America	5-3
5-3	Sony Electronics – Corporate Structure	5-5
5-4	SEL Selling Machine at Work.....	5-10
5-5	Sony Electronics – Organization Structure.....	5-14
5-6	SEL Headcount Estimate	5-17
5-7	SEL Marketing and Sales Headcount by Major Organizational Unit.....	5-18
6-1	BSC Company – Functional Description	6-2
6-2	BPSD Company – Functional Description.....	6-7
6-3	ASD Division – Functional Description.....	6-8i
6-4	VNPD Division – Functional Description	6-10
6-5	PMPD Division – Functional Description	6-12
6-6	HEPD Division – Functional Description.....	6-14
6-7	DIPD Division – Functional Description	6-15
6-8	ITPD Division – Functional Description.....	6-18
6-9	SEDD Division – Functional Description	6-19
6-10	Semiconductor Devices – Detail	6-20
6-11	SCS Company – Functional Description.....	6-22
6-12	CPSC Company – Functional Description	6-23
6-13	e-Solutions Company – Functional Description.....	6-26
8-1	Sony Research Presence in the US.....	8-2

9-1	US Customer Service and Repair Infrastructure	9-2
9-2	Hierarchy of Sony Customer Service	9-6
9-3	Top-Level Overview –SEL US Service Infrastructure.....	9-7
10-1	Two Faces of Sony – Top View	10-2
10-2	Two Faces of Sony – Detail.....	10-4
10-3	From Technology to Branded Dreams – The Sony Way	10-5
10-4	PDA Example	10-7
10-5	Sony Selling Machine at Work.....	10-9
11-1	Sony in North America –Market Access Blueprint	11-2
11-2	SEL sales Coverage of North America.....	11-9