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The Information Technology and Telecommunications Market in Chile

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Prepared by the
Team Canada Market Research Centre
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- the DFAIT Internet Site (www.dfait-maeci.gc.ca) in the Trade, Market Information section; and
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THE INFORMATION TECHNOLOGY AND Min. doc Affaires exterior Telecommunications MARKET IN CHILE



MARKET OVERVIEW

The Chilean economy has steadily improved in the past decade with growth of approximately 80%. Chile has the third highest income per capita in Latin America. Unemployment has declined to 4-6% and the inflation rate has decreased to 8-9%. Chile has been called the "Sixth Pacific Tiger". Despite this positive record, Chile remains a developing nation.

Telecommunications

For the past five years, Chile's telecommunication sector has registered a greater rate of growth than Chile's economic rate. In 1997, the telecommunications sector is projected to grow by 7%, while the economy is estimated to increase by 5.5%. Canadian telecom firms interested in the Chilean market will have many opportunities with corporate telecom users (datacom, voice systems, dedicated lines, routers, etc.) as well as with telecom operators (digitalization, cellular, fibre optics, rural telecom, PCS, ISDN applications and equipment, Frame Relay, ATM, etc.).

Key factors shaping future growth

In 1994, the Chilean Subsecretariat of Telecommunications (SUBTEL) introduced a telecom law, which opened up the industry to all players. The law's key element is the implementation of a "multicarrier system" which allows users to select the operator of their choice for long-distance services. All operators, including CTC through its affiliate CTC Mundo, plus ENTEL, Chilesat, VTR, Bell South, CNT Carrier, lusatel and Transam are now free to compete for this market segment. This law also created a four year Fund for the Development of Telecommunications in rural and marginal areas. The Fund, which is in its third year, assigns approximately US\$5 million per year in subsidies. A committee within SUBTEL examines all projects and provides monies from the Fund according to the project's value and impact.

In 1996, SUBTEL assigned Personal Communications Services (PCS) concessions to Telex-Chile and ENTEL, the latter winning two of the three concessions being given. Market opportunities exist for equipment and management of PCS.

Chilean demand for data and text transmission, both electronic and voice-based, is also a function of robust economic growth. Data transmission is a growing necessity due to centralized decision-making in Santiago and far-flung operations. Banks with widespread offices are in particular need of data-transmission facilities and several have already developed their own networks (based on public and private telecom facilities). There is strong domestic competition for data services and CTC, Chilepac and VTR all offer data transmission services within Chile. Satel (a subsidiary of ENTEL), lusatel and Chilesat (Telex-Chile) also provide dedicated satellite-based data transmission services to corporate clients.

Information Technology

The local computer market is completely open without barriers to international competition. All major global brands are available at competitive international prices. Chile's computer sector includes sales of software, hardware and post-sales services (including technical services, professional and training services). There are 5300 people that derive their work from this sector.

Chilean computer industry sales have increased from US\$375 million in 1992 to US\$902 million in 1995. Sales projections are expected to be US\$1 billion for 1996. In 1995, sales were broken down as follows: hardware plus professional services: 78%; software sold domestically and exported: 9.3%; technical services: 8.6% and training: 4.1%.

Equipment sales reached US\$410 million in 1994. The equipment market is divided as follows: PCs: 55%, peripherals 5% with the remainder mainframes and components. Major sales are from Acer, IBM, Apple and Compaq. In 1995, there were 158,772 units of PCs that were imported representing a 44% increase over 1994. The leading PC importers are Acer (22% market share), Compaq (21%), IBM (12%) and Apple (6%). Other importers include Digital, Epson, Unisys and Hewlett-Packard.

In 1993, 885 non-PC computers were imported into Chile of which 147 were IBM, 99 Synapsis, 85 Digital; 43 Cientec, 33 NCR, 32 Unisys, 31 Logica, 28 Sistemas Digitales, 26 Data General, 24 Olivetti, 17 Teknos and 14 Coasin. This represents a market of almost US\$300 million of which mini-computer, open platform workstations dominate.

In 1995, software sales were US\$55 million (US\$39 million originated from exports), an increase of 41% over 1994. Chile's main software export markets are Argentina, the United States and Peru. Major software exports are in the following areas: financial markets, services, administration and security. Estimated export sales for 1996 are US\$80 million while domestic sales may reach US\$96 million.

PRIVATE AND PUBLIC SECTOR PLAYERS

Telecommunications

Chile's telecommunication sector includes five major players namely: CTC, ENTEL, VTR, Telex-Chile and Bell South. However, there are a number of smaller companies who are competing with the major players.

<u>ENTEL</u>: Until recently, ENTEL (owned by Chilquinta, Stet and Samsung), enjoyed a monopoly of the long-distance market. ENTEL's profits were approximately US\$15.5 million in 1996 and US\$25 million in 1995. This company recently became active in local telephony through its affiliate Entelphone as well as cellular. In August of 1996, they became majority owner of Telecom, renaming the company ENTEL Telefonia Personal. ENTEL is now engaged in an expansion program of US\$700 million for the period 1996-2000. The program will include:

- the expansion of local telephony for the installation of 250,00 lines from now until the end of the century through its affiliate Entelphone;
- completion of the national fibre-optic network by the year 2000;
- connection of Chile's fibre optics and traditional trunk lines to international networks (UNISUR, AMERICAS, COLUMBUS);
- installation of the wireless system for PCS throughout Chile, through its affiliate Entel Telefonia Personal, beginning in October 1997 for the metropolitan area and fifth region:
- consolidation of its satellite transmission facilities, construction of small earth stations:
- expansion of rural microwave transmission facilities; and
- investment in foreign markets such as Colombia, Mexico, Argentina

CTC: CTC (Compañia de Telecomunicaciones de Chile), which is 48% owned by Telefonica de España, is Chile's dominant supplier of local telephony and accounts for over 80% of all investment in the telecom sector. CTC has an aggressive expansion plan aimed at increasing the ratio of telephone lines per capita from 14 to 22 by the end of the 1990s. Some major points concerning CTC:

- CTC is active in local telephony (95% of local lines), cellular phones, long distance telephony and cable.
- In 1993, CTC installed 608,000 lines and completed the total digitalization of its network. Between 1989 and 1996, it installed 2,251,106 lines. CTC estimates that it will install about 1.3 million more lines in the period 1996-2000.
- CTC will expand cellular phone systems from 40,000 to 65,000 which entails an investment of US\$22 million in 14 NEC switching stations.

- In early 1996, CTC Celular joined VTR Celular to create the company Startel Comunicaciones Moviles to tackle the mobil telecommunication sector. Together they have 50% of the mobile phone market share with a total of 175,000 subscribers. CTC is in the process of digitalizing the whole cellular network.
- CTC installed a "multi-carrier system" to allow callers to choose from eight long-distance firms: ENTEL, Chilesat, VTR, CTC Mundo, Bell South, CNT Carrier, lusatel or Transam.
- In 1996, CTC earned profits amounting to US\$354 million.
- CTC plans to invest US\$500 million in 1997 and an additional US\$2 billion by the year 2000.

Both CTC and ENTEL are facing increasing competition from a slew of small cellular and regional communications firms who are, for the most part, backed by foreign capital and funds. Other smaller firms, such as Chilesat, Telefónica Manquehue, lusatel and Telefónica del Sur, also continue to claim telecom market share from the two major companies and aim specifically for more of the long-distance and international market. Telefónica del Sur is investing US\$12 million in a rural telephone system for the 11th Region. Chilesat has secured an agreement from CTC to handle up to 50% of overseas calls and plans to integrate more satellite capacity into its already active corporate data services (Chilesat is a subsidiary of the large Telex Chile group which provides a wide range of business services such as telex, facsimile and land-line rentals). Chilesat will spend over US\$40 million over the next three years to upgrade its international and national long-distance capacity.

VTR S. A., one of the new competitors to CTC and ENTEL, is owned by the group Luksic (50.7%) and by SouthWestern Bell (40%). Its activities include local telephony, T.V. cable, long distance and cellular. VTR plans to invest US\$705 million in the 1995-1997 period. Of this amount, US\$270 million will be spent in private T.V. to increase its capacity (cable and microwave), as well as cable-telephony and DBS services at a national level. The company plans to invest US\$230 million in their wireless system by increasing its area and digitalizing its cellular network. US\$120 million will be invested in the long distance market and US\$85 million in local lines and rural telephony.

In Chile, there are seven companies that are licensed to operate the local telephone market. These are CTC, ENTEL Local, Manquehue, CMET and Telesat (an affiliate of Telex Chile) for the metropolitan area, Telefónica del Sur (an affiliate of VTR) for the 10th region and Telcoy for the 11th region of Chile. Telesat estimates that it will invest US\$200 million for the installation of 200,000 lines in Santiago until the year 2000.

Plant specific telecom needs are also growing. In terms of sheer size, the second largest telecom operator in Chile is Codelco, the state-owned copper mining company. There are several potential important clients for Canadian niche and corporate telecom equipment and services suppliers. These include Codelco, other mining firms (which include all the major Canadian mining companies — which are all active in Chile), pulp and paper operations, government departments, fishing companies, banks and financial institutions, and hotel/tourism complexes.

In the television cable arena, there are three major players, namely, VTR Cable Express (which in June 1996 fused with United International Holdings (UIH) making it the biggest cable supplier in the country), Metropolis-Intercom (belonging to CTC) and Cable Vision. In the future, competition will develop in value added services such as videos on demand. Please note that in Chile no single company has a specific market assigned to it and, therefore, they all compete for market shares.

Information Technology

The major Chilean software exporters are Consultarias y Sistemas S.A. (8.89% share of the market), Emergency 24 Software (8.67%), Sonda (8.15%) and Synapsis (6.72%).

The hardware maintenance market is dominated by two firms: Microcare Servicios/Quinta Generacion and Cientec/Infoland. The top retail outfits include PCL, Computech/Synapsis and Sonda.

CHANNELS OF DISTRIBUTION

The most common distribution channels used in Chile are distributors, agents, direct purchase and subsidiary or branch offices. It is very important to have after sales services for the Chilean client. A good distributor is a key element given the high competition present in this market. In order to increase sales, the exporter should provide full support to the representative, comply with delivery dates and provide good, clear promotional material and brochures in Spanish.

MARKET ACCESS CONSIDERATIONS

Canada's relationship and business interests in Chile are expected to accelerate with the recent bilateral trading arrangement between Canada and Chile.

Import regulations

Chile enjoys a remarkably free and open import market. Import duties for all products are at a flat 11% ad valorem calculated on the CIF value.

The competitive environment

Telecommunications

The telecommunications sector in Chile is very competitive with many foreign telecom companies currently active in the market. The major suppliers come from Japan, USA, Spain, Germany, France and Canada.

Information Technology

This is a very competitive market with major suppliers coming from the USA, Taiwan and Japan. Asian countries provide competitive prices and easy financing terms. Equipment is mainly from Acer, Compaq, IBM, Apple, Unisys, Epson, Digital and Hewlett-Packard while software comes from Novell, IBM operating software, Microsoft, and Corel's Wordperfect to name a few.

In 1995, Canada exported C\$21 million in this sector, not including software. Computer hardware imports into Chile have increased from US\$163 million in 1993 to US\$226 million in 1994. Major country suppliers are USA, Japan, Taiwan and France. In order to increase their market share, Canadian companies should focus on offering low export prices, good credit terms and strong promotional support for their representatives.

Intellectual Property Rights

Pirating remains a problem as 64% of all software sold in 1995 was pirated. However, the new Intellectual Property Law, along with court action by the Association of Software Distributors, should partially remedy this situation. Eighty percent of pirating is concentrated in the following products: word processors, operating systems for PCs and calculation charts.

PROMOTIONAL VENUES

Trade Shows

Softel '97

(Information technologies, telecommunications)

Date: July 8-13, 1997 (annual)

Place: Parque Cerrillos, Santiago, Chile

Products: telecommunications, computer hardware and software

products

Organizer: FISA

Camino a Melipilla 10.339

Santiago, Chile

Telephone: (56-2) 533-2838 Facsimile: (56-2) 533-1667

Contact: Mr. Andrés Viveros, Manager

Publications

Information Technology

PC Magazine Chile Reyes Lavalle 3194 Las Condes

Santiago, Chile

Telephone: 56-2) 231-7053 Facsimile: (56-2) 232-8826

Contact: Ms. María Paz Moreno, Editor

Microbyte Passy 056 Providencia Santiago, Chile

Telephone/Facsimile: (56-2) 222-2699 Contact: Mr. José Miguel Guzmán,

Editor

Revista Informática California 1945 Of. D Santiago, Chile

Telephone: (56-2) 204-2828 Facsimile: (56-2) 204-8264

Contact: Mr. Jorge Gatica, Editor

ComputerWorld Elena Blanco 1160 Santiago, Chile

Telephone: (56-2) 204-2084 Facsimile: (56-2) 209-6524

Contact: Mr. Emilio Filippi, Editor

KEY CONTACTS AND SUPPORT SERVICES

Telecommunications

Government

Subsecretaria de Telecomunicaciones Subtel Amunategui 178, Piso 7 Santiago, Chile

Telephone: (56-2) 672-9379 Facsimile: (56-2) 698-5466

Contact: Ricardo Pereira, Manager,

Concessions Division

Telecom Operators

Compañía de Telecomunicaciones de Chile

(CTC)

Agustinas 640, Piso 25

Casilla 16-D Santiago, Chile

Telephone: (56-2) 691-2251 Facsimile: (56-2) 632-8425

Contact: Isaud Flores, Network Vice President

CTC Mundo (Subsidiary of CTC) Nueva de Lyon 72, Piso 11 Casilla 16370, Santiago 9 Providencia, Santiago, Chile Telephone: (56-2) 234-5050

Facsimile: (56-2) 330-9700 Contact: Alejandro Saint Jean, General

Manager

Empresa Nacional de Telecomunicaciones

(ENTEL)

Av. Andrés Bello 2687 Piso 13

Santiago, Chile

Telephone: (56-2) 360-0123 Facsimile: (56-2) 360-2775

Contact: Richard Büchi, General Manager Konrad Burchardt, Executive Vice-President

Commercial

VTR S.A. Bandera 168 Santiago, Chile

Telephone: (56-2) 672-5436 Facsimile: (56-2) 695-4491

Contact: Jorge Salvatierra, General Manager

Carlos Cañete, Network Manager

VTR Telecomunicaciones

Bandera 168 Santiago, Chile

Telephone: (56-2) 671-3025 Facsimile: (56-2) 671-2430)

Contact: Elías de la Cruz, General Manager of

Telecommunications

Telex-Chile

Rinconada El Salto 202, Huechuraba

Santiago, Chile

Telephone: (56-2) 252-5171

Contact: Ramón Valdivieso, General Manager,

Chilesat and

General Manager, Telex-Chile

Alejandro Ulloa, General Manager, Chilepac

Bell South Chile

El Bosque Norte 0134

Santiago, Chile

Telephone: (56-2) 339-5158 Facsimile: (56-2) 233-1939

Contact: Jorge Bascur, General Manager

lusatel

Pedro de Valdivia 100, piso 15

Santiago, Chile

Telephone: (56-2) 246-9155

Contact: Alberto Herreria, Executive Director

Cellular Operators

Startel

(Biggest cellular company in the market with 175,000 clients, created by the union of VTR

Celular and CTC Celular)
Telephone: (56-2) 661-7220
Facsimile: (56-2) 661-7299

Contact: Mr. Jorge Id, General Manager

ENTEL Celular

(1/3 belongs to ENTEL and 2/3 to Motorola)

Telephone: (56-2) 225-2566 Facsimile: (56-2) 225-7424

Contact: Mr. Ricardo Cruzat, General Manager

Bell South

Telephone: (56-2) 339-5158 Facsimile: (56-2) 233-1939

Contact: Mr. Jorge Bascur, General Manager

Potential Agents

Coasin Chile Ltd.

Holanda 1292, Providencia

Santiago, Chile

Telephone: (56-2) 251-4747 Facsimile: (56-2) 274-4588

Contact: Raúl Ciudad de la Cruz, President

Sonda Ltd. Teatinos 574 Santiago, Chile

Telephone: (56-2) 695-2277 Facsimile: (56-2) 695-6955

Contact: Jorge Diaz, Commercial Manager

Schaferstain S.A. Santa María 0510 Santiago, Chile

Telephone: (56-2) 737-2020 Facsimile: (56-2) 777-6120

Contact: Jose Schaferstein, President

Inpact S.A.

Av. Antonio Varas 697, Providencia

Santiago, Chile

Telephone: (56-2) 236-1428 Facsimile: (56-2) 235-6584

Contact: Paul Andawater, Managing Director

Interexport S.A.

Av. Francisco Bilbao 2168 Providencia, Santiago, Chile Telephone: (56-2) 635-2885 Facsimile: (56-2) 204-4655

Contact: Raúl Rojas Baltra, President

Telectronic Ltd.

Eliodoro Yañez 2238, Casilla 16476

Santiago, Chile

Telephone: (56-2) 225-7171 Facsimile: (56-2) 341-4037

Contact: George Cargill, General Manager

Raylex S.A.

Av. Fco. Bilbao 2469

Santiago, Chile

Telephone: (56-2) 274-0088 Facsimile: (56-2) 225-3520

Contact: Carlos G. Dubournais Brown,

General Manager

Gallyas Telecomunicaciones S.A. Av. Salvador 1318, Providencia

Santiago, Chile

Telephone: (56-2) 225-9001 Facsimile: (56-2) 225-9781

Contact: Fernando Gallyas P., Director

A-1 Alarmatic Los Leones 2194 Santiago, Chile

Telephone: (56-2) 225-8006 Facsimile: (56-2) 204-9405

Contact: Juan Benard Mayer, General

Manager

Asicom S.A.

Sta Elena 2222, San Joaquín

Santiago, Chile

Telephone: (56-2) 550-5500 Facsimile: (56-2) 550 -5590

Contact: Drago Eterovic, General Manager

Information Technology

ACTI

Asociación Chilena de Empresas de Tecnologias de Información Avenida Santa María 0508, Piso 4

Santiago, Chile

Telephone: (56-2) 735-5755 Facsimile: (56-2) 735-5754

Contact: Fernando Hudson, General Manager

Asociación de Distribuidores de Software

(ADS)

San Sebastian 2807, Oficina 416

Santiago, Chile

Telephone: (56-2) 242-8684 Facsimile: (56-2) 246-3867

Contact: Hugo Mendez, General Manager

Potential Agents

Sonda S.A. Teatinos 574 Santiago, Chile

Telephone: (56-2) 695-2277 Facsimile: (56-2) 695-6955

Contact: Ricardo Majluf Sapag, General

Manager

Desarrollo de Tecnologias y Sistemas Ltd.

Rosas 1444 Santiago, Chile

Telephone: (56-2) 697-0991 Facsimile: (56-2) 699-3316

Contact: Oscar Boronig, General Manager

Teknos

Santa Elena 2222 Santiago, Chile

Telephone: (56-2) 556-8390 Facsimile: (56-2) 551-9571

Contact: Patricio Torm, General Manager

Synapsis S.A.

San Antonio 580, Piso 7-10

Santiago, Chile

Telephone: (56-2) 632-1240 Facsimile: (56-2) 696-5999

Contact: Gustavo González, General Manager

Rimpexchile

Av. Pedro de Valdivia 1609

Santiago, Chile

Telephone: (56-2) 340-7700 Facsimile: (56-2) 225-3062

Contact: Jaime Valenzuela, General Manager

Asicom

Mar de Plata 2147, Providencia

Santiago, Chile

Telephone: (56-2) 204-7100 Facsimile: (56-2) 550-5590

Contact: Drago Eterovic, General Manager

Coasin Chile

Eliodoro Yáñez 2466

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Telephone: (56-2) 234-2344 Facsimile: (56-2) 234-2545

Contact: Aurelio Montenegro, Manager

ISC Technology

Av. Providencia 929, Piso 4

Santiago, Chile

Telephone: (56-2) 236-2306 Facsimile: (56-2) 234-2545

Contact: Rodrigo Lafuente, Executive Director

Henry Araya, General Manager

Computerland

Avenida Santa María 2560, Providencia

Santiago, Chile

Telephone: (56-2) 233-2577 Facsimile: (56-2) 231-6835

Contact: Carlos Johnson, General Manager

Sisteco S.A.

Huerfanos 812, piso 3

Santiago, Chile

Telephone: (56-2) 639-4040 Facsimile: (56-2) 239-8467

Contact: Alejandro Alarcon, Commercial

Manager

Computer Software

World Computer

Av. El Bosque Norte 0160

Santiago, Chile

Telephone: (56-2) 246-1459

Facsimile: 334-0923

Contact: Sra. Blanca McKenna, Marketing

Manager

Galaxia

Av. Los Leones 2515

Santiago, Chile

Telephone: (56-2) 204-2694 Facsimile: (56-2) 205-0438

Contact: Mr. Raul Valesh, Commercial

Manager

Magenta Reyes Lavalle 3350 Santiago, Chile

Telephone: (56-2) 246-7777 Facsimile: (56-2) 246-5533

Contact: Mr. Alberto Mordojovich, General

Manager

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Telephone: (56-2) 362-9660 Facsimile: (56-2) 362-9664

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Industry Canada 235 Queen Street Ottawa K1A 0H5

Telephone: (613) 990-0871

Facsimile: (613) 990-4215/990-3858

Contact: Ken Yokoyama

OTHER REFERENCE MATERIAL

Department of Foreign Affairs and International Trade, *Chile: Overview of Telecommunications Sector*, Canadian Embassy, Santiago, Chile, January 1997.

Department of Foreign Affairs and International Trade, *Overview: Computer Market*, Canadian Embassy, Santiago, Chile, January 1997.

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