

MATERIAL CHANGE REPORT

Securities Act

Item 1. Reporting Issuer

Hummingbird Communications Ltd.
("Hummingbird")

1 Sparks Avenue
North York, Ontario
M2H 2W1

Item 2. Date of Material Change

March 11, 1999

Item 3. Press Release

A press release was issued in Toronto, Ontario on March 11, 1999 and is attached hereto as Schedule A.

Item 4. Summary of Material Change

Hummingbird has acquired Leonard's Logic SA, a software company which makes Genio, a data transformation and exchange tool. The total purchase price, payable in cash, is approximately US\$20.4 million.

Item 5. Full Description of Material Change

Hummingbird has acquired Leonard's Logic SA, a software company which makes Genio, a data transformation and exchange tool. The total purchase price, payable in cash, is approximately US\$20.4 million. Under the terms of the purchase agreement, the president and key personnel of Leonard's Logic will continue to be employed by Hummingbird.

Leonard's Logic specializes in the development of an engine-based data transformation and exchange tool that brokers information from any source to any target. Leonard's Logic Genio facilitates the flow of information through corporate decision support systems, including data marts, data warehouses and OLAP (on-line analytical processing) environments. Leonard's Logic was founded in 1996, is based in Paris, France and has offices in Europe and North America.

Hummingbird expects that the acquisition will enable it to better serve its enterprise customers by providing a turnkey solution for the rapid and cost effective deployment of data marts integrated with a range of business intelligence capabilities. Genio is expected to complement Hummingbird's BI/Suite, an enterprise business intelligence solution that allows users to access, analyze and report on information organized with Genio. The acquisition is expected to enhance Hummingbird's offering of business intelligence.

Item 6. **Confidential Filing**

N/A

Item 7. **Omitted Information**

N/A

Item 8. **Senior Officer**

For further information contact Inder P.S. Duggal, Chief Financial Officer and Chief Controller of Hummingbird at (416) 496-2200.

Item 9. **Statement of Senior Officer**

The foregoing accurately discloses the material change referred to herein.

Dated at Toronto, Ontario this 22nd day of March, 1999.

(Signed)

Inder P. S. Duggal
Chief Financial Officer and Chief Controller
Hummingbird Communications Ltd.

SCHEDULE A

HUMMINGBIRD COMMUNICATIONS LTD.

FOR IMMEDIATE RELEASE

Hummingbird Acquires Data Transformation Company

Leonard's Logic will provide Hummingbird turnkey solution for building data marts

Toronto, Ontario, March 11, 1999 – Hummingbird Communications Ltd. (TSE: “HUM” and NASDAQ: “HUMC”), a world-leading enterprise software company, today announced that it has acquired Leonard's Logic SA, makers of Genio™, a leading data transformation and exchange tool. The acquisition will enable Hummingbird to offer a turnkey solution for rapid and cost-effective deployment of data marts integrated with a full range of business intelligence capabilities.

“Adding Leonard's Logic Genio product line to our existing business intelligence offering will allow us to serve our enterprise customers better with a complete data mart solution”, said Fred Sorkin, Chairman, President and Chief Executive Officer of Hummingbird. “Many of our Fortune 1000/Global 2000 customers are seeking a turnkey solution for their decision support initiatives. Genio, together with Hummingbird BI/Suite will result in faster return on investment and better results for our customers. Genio will also be leveraged in conjunction with Financial Frameworks™, our recently acquired packaged risk management solution. This acquisition further enriches our business intelligence offering which is a key component of our Enterprise Knowledge Portal strategy.”

“Hummingbird BI/Suite is the ideal business intelligence solution for new and existing Genio customers”, said Gilles Andre, President and Chief Executive Officer of Leonard's Logic SA. “Genio provides organizations consistent, accurate, and inter-related information that is centrally administered and easily accessible. But the true value is realized when this data is accessed with BI/Suite, which provides the best way to access, analyze and report on the information stored.”

Leonard's Logic Genio transforms, cleanses, enriches, and directs the flow of information across the entire spectrum of corporate decision support systems including data marts, data warehouses, and OLAP environments. Genio provides:

- Metadata management through an open, shareable, and extensible repository that supports data lineage and impact analysis
- Data accuracy through centralized record matching, record merging, and multiple-source record integration
- Full set of operational controls, including event-driven scheduling, built-in audits, record controls, error logs, and error handling
- Data consistency through transformation, cleansing, and user-defined enrichment routines.

The total purchase price, payable in cash, is approximately US\$20.4 million. Under the terms of the agreement, Leonard's Logic president and key personnel will continue to be employed by Hummingbird.

About BI/Suite

Hummingbird BI/Suite is a fully integrated, scalable enterprise business intelligence solution that allows users to access and analyze information stored in transactional databases, data marts, data warehouses and enterprise resource planning (ERP) applications both on the desktop and over the Web. BI/Suite includes:

- **BI/Query**, an enterprise query and reporting application;
- **BI/Analyze**, an enterprise OLAP application for multidimensional analysis of corporate data;
- **BI/Web**, a thin-client solution that provides query, reporting and OLAP capabilities over the Web; and
- **BI/Broker**, an enterprise application server designed to provide scheduling, security, distribution, notification and centralized administration services to BI/Suite.

About Hummingbird

Hummingbird Communications Ltd. specializes in the development of enterprise software solutions, including network connectivity and business intelligence products that provide high performance access to internetwork-based information and applications. Hummingbird products are sold and supported internationally by authorized resellers in more than 40 countries. Headquartered in Toronto, Canada, Hummingbird has offices strategically located throughout Canada and the United States, Australia, Switzerland, the Netherlands, Germany, France, Italy, Sweden and the United Kingdom.

About Leonard's Logic

Leonard's Logic specializes in the development of an engine-based data transformation and exchange tool that brokers information from any source to any target. Based on a centralized metadata repository of information-centric business rules, Genio transforms, cleanses, enriches, and directs the flow of information across the entire spectrum of corporate decision support systems including data marts, data warehouses, and OLAP environments. Founded in 1996, the Paris, France-based Leonard's Logic has offices in Europe and North America.

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