

## Arbutus Technology

Bringing data to your desktop

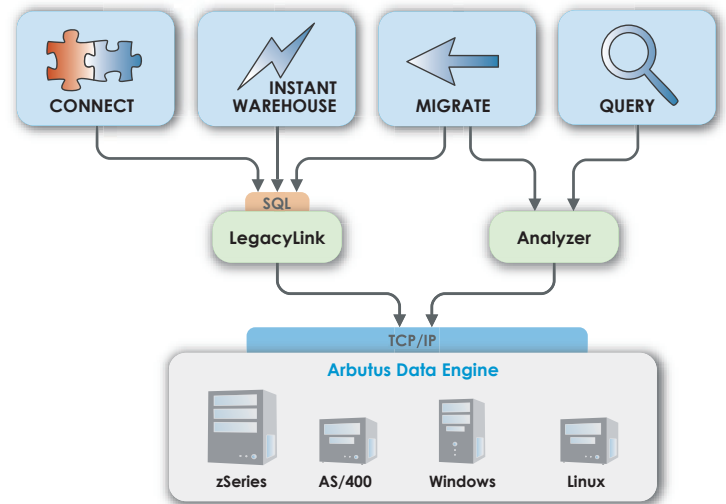
### The Functionality Gap of Standard Tools

Although business intelligence tools, standard reports, spreadsheets and SQL query tools all have their important place within an organization, many users still face functionality gaps with these tools in three key areas:

- ▶ Access gap - Reporting and analysis needs involve legacy systems and other non-warehoused data
- ▶ Analysis gap - Application does not support the desired analytics or data volumes
- ▶ IT resource gap - Significant IT resources and preparation are required to support new data queries

Arbutus technology has been designed to fill a complementary role to other technologies and provide a pragmatic, straightforward solution to these functionality gaps. The Arbutus desktop technology is specifically designed to support easy access and analysis of data from a wide variety of data sources and data types, and to process commercial data volumes, with minimal involvement from IT personnel.

The three components of the Arbutus technology – Analyzer, LegacyLink and the Arbutus Data Engine – power solution products provided by Arbutus – Arbutus Connect, Arbutus Migrate, Arbutus Query and Instant Warehouse. Each component of the Arbutus technology works together to provide a simple, flexible solution that is quickly customized based on our clients requirements. Arbutus Analyzer and LegacyLink communicate directly with the Arbutus Data Engines via TCP/IP to provide a simple solution that does not require any additional hardware or software components for connectivity.



### Arbutus Analyzer

Analyzer has been designed to give end users the shortest distance between the questions they want answered and the data that contains those answers.

It accomplishes this by providing an interface with many pre-built analytics that allows sophisticated analysis without any reliance on IT personnel. Depending on your requirements, the analysis can be done interactively, or set up to run in an automated environment.

Unlike traditional data manipulation tools such as Access or Excel, Analyzer's user interface is specifically designed to address the realities of directly accessing legacy data. Analyzer utilizes a familiar spreadsheet interface to browse, analyze or report on the data, making it appear as though it were already in a data warehouse.

### Key Benefits for Data Access

- ▶ Dash board to access virtually any data within your organization from modern relational databases to old, complex mainframe based legacy data files without ETL, data staging, or extra infrastructure
- ▶ Legacy data sources can be easily combined with other databases to create a unified view to the data you need
- ▶ DB2, IMS, VSAM, ISAM, sequential (QSAM) Flat files and AS/400 data may all be integrated into Arbutus Analyzer
- ▶ Full range of tools that supports the implementation of business rules into data definitions

## Key Benefits for Data Analysis

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- ✦ Windows interface and familiar spreadsheet appearance facilitates straight forward data analysis for even mainframe data
- ✦ Unlimited file sizes
- ✦ Virtual columns allow any computations or business rules to appear as a column, even when accessing legacy data
- ✦ Powerful data analysis and manipulation commands support even the most advanced tasks
- ✦ Advanced Data Processing and definition capabilities extend the value that can be realized from the legacy data sources

## Key Benefits for IT or Administrator

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- ✦ Supports the ability to centrally control the set up and administration of data definitions and access for end users
- ✦ Your data is secure, as Analyzer provides strictly “read only” access
- ✦ No programming required for many types of reporting and analysis
- ✦ Data Definition Wizard expert system guides you through metadata creation
- ✦ Automated metadata conversion allows rapid data definition in most cases
- ✦ Complete semantic layer allows customization of the table and column names
- ✦ The optional Arbutus language is specifically designed for analyzing data. This means that sophisticated applications can be developed in a short period of time and minimal lines of code

## LegacyLink

The term ‘legacy’ is usually synonymous with ‘difficult to access’. This is because legacy systems aren’t built on modern standards, and therefore are hard to access with modern tools.

Arbutus LegacyLink™ is middleware that easily links your Windows, server and web applications to virtually any database and legacy data source, regardless of complexity.

LegacyLink™ marries an ODBC driver with the data access and definition capabilities of Arbutus Analyzer. All data sources that have been defined with Arbutus Analyzer can be accessed using LegacyLink. This enables data that Arbutus Data Engines can access to be exposed as a virtual data mart. Not only can you access the data, but you can execute any SQL query your existing application supports, without any additional infrastructure.

Any application that can read ODBC can now directly access and integrate your legacy data. Even though the data may be physically disparate, the Windows user or application is presented with a set of tables that appears as a single unified database.

## Key Data Access Benefits

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- ✦ Supports direct SQL access to most legacy data sources
- ✦ Familiar windows tools can directly access even complex legacy from Mainframe and AS/400 sources
- ✦ LegacyLink™ can supply legacy data to applications hosted on the web, server and desktop via ODBC, OLE/DB, .NET or JDBC
- ✦ Your data is secure, as LegacyLink™ provides strictly “read only” access
- ✦ LegacyLink™ accesses the original data file, in place, without any requirement for data preparation, conversion, or staging
- ✦ Data can also be staged, but without the need for data conversion or preparation
- ✦ IT professionals can treat legacy data as if it were already loaded into a modern database allowing greater flexibility in managing legacy data access, integration or migration requirements
- ✦ Advanced data processing and definition capabilities extend the value that can be realized from the legacy data sources
- ✦ Straight forward to set up logical relationships between different data sources

## Arbutus Data Engines

Arbutus’s Data Engines reside natively on enterprise servers enabling fast, efficient data access and query processing support for both LegacyLink™ and Analyzer.

The Arbutus Data Engine is available for Mainframe (z/OS, MVS), AS/400 (i-series), Windows and Linux platforms.

## Key Benefits

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- ✦ Data Engines provides access to virtually all data sources and allows the transparent joining of data from disparate sources
- ✦ Fully compatible with all data and databases including SQL Server, Oracle and DB2
- ✦ Supports the movement of data sources between platforms to provide flexibility in solutions deployments
- ✦ Data Engines are optimized for superior processing performance
- ✦ Windows and Linux Data Engines can be used to off load expensive CPU cycles from z/OS and AS/400 platforms



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