

The DRC Novara™ search engine delivers realtime identification of key, imprecise phrases and bit patterns using a fuzzy logic analyzer that scales to instantaneous analysis of millions of messages and datastreams without the need to index first. Enabling actionable intelligence in sub-seconds.



DRC Novara engine



DRC Novara appliance with upto 4 Novara engines

- Most advanced text analyzer
- Innovative design
- Uses proven algorithms
- Full Linux Support
- User friendly and configurable

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**Use case example 1.** With over 10 trillion SMS messages sent in 2012 alone (not counting Twitter messages) people are rapidly shifting P2P communications from conventional semi-structured mechanisms, like email, to unstructured, casual messaging. With social messaging shorthand, mixed languages and misspellings are common, and therefore conventional analyzers, like regular expressions, looking for exact pattern matches no longer work.

**Use case example 2.** Realtime log data analysis. Inline analysis of network and system log data frequently requires identification of imprecise or truncated strings and numbers.

**Solution.** The DRC Novara analyzer solves this dilemma by employing an advanced bit pattern analysis technique that recognizes imprecise matches and scores the match. This enables the user to precisely tune search criteria for the terms and expressions required.

**Dense packaging.** Each Novara server contains up to four analyzer engines packaged in a 1U rack mountable configuration.

**Highly flexible expression engine.** Each analyzer engine can be individually configured to handle hundreds of search strings of variable length simultaneously.

**Very low latency.** By analyzing incoming data in realtime microsecond response times are achieved.

**Highly tunable, multi-threshold capacity.** Various scoring thresholds can be configured enabling the user to determine when to receive a match alert.

**Massive scalability.** Clustered Novara analyzers enable ten of thousands of expressions, petabytes of data and thousands of users to be supported simultaneously.

**Ultra-low energy consumption.** Each Novara server with 4 analyzer engines requires less than 400 watts of power.

**Cloud ready.** Novara analyzers can be cloud based.

#### Specification (per analyzer engine):

Number of search strings	2 to 1,000
String length (bytes)	2 to 2,048
Bytes/character	1 to 4
Penalty score range	-32 to +31
Data throughput	upto 2.5 GB/s
Source data size	Unlimited

1U server contains up to 4 analyzer engines. 1Us can be clustered.

#### The DRC Difference

With over 200 man-years of experience in developing low latency, high capacity solutions DRC has a unique talent in big data applications.

By utilizing a task based architecture DRC has optimized data management/data analysis balance. The key to the ultra-high performance of Novara is distributing processing capacity so that's its available where its needed rather than centralizing it. Moves the processing to the data versus the data to the processor.

#### DRC Complete Services

In addition to providing the standard Novara analyzer DRC also delivers a complete design and implementation service for those customers who require assistance with designing, configuring and customizing their Novara environment.

DRC programs include data security, indexing, biometrics, image processing, genomics and financial services applications.

In many cases DRC engineers are used to supplement customer's internal resources as consultants to assist with design and performance optimization.

#### DRC Innovation

The DRC Novara architecture employs a hybrid compute architecture leveraging DRC's extensive experience with hardware accelerators.

#### Made in America

DRC is a US based company with all staff US citizens, and all its engineering and manufacturing conducted in the US.