

Applying artificial intelligence to store, process and analyze large amounts of data – giving you the insight you need.

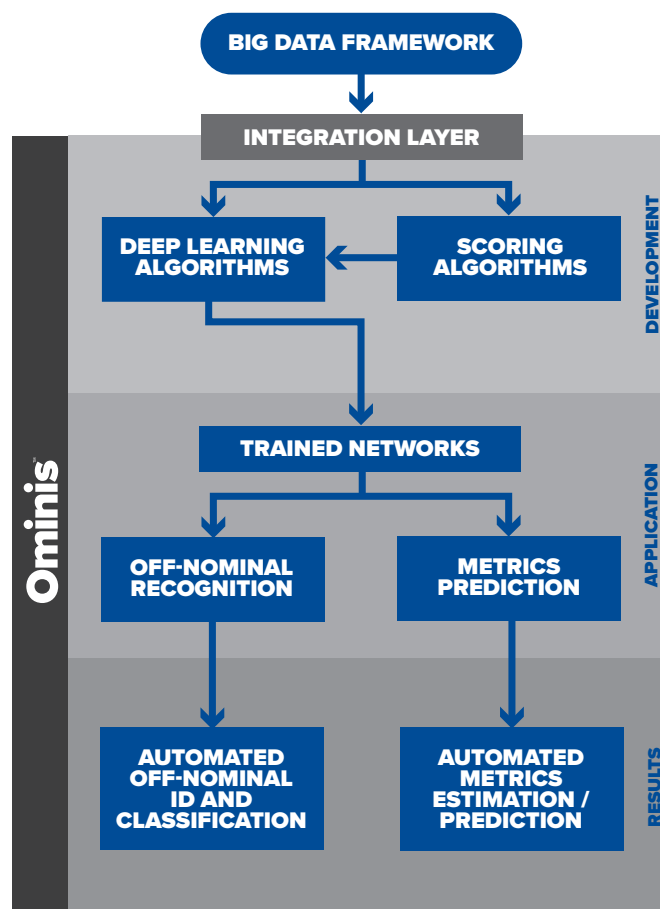
OVERVIEW

Big Data is critical in the assessment and planning for numerous fields to include scientific and business markets. While the strategic, operational and tactical knowledge derived from Big Data is quite valuable, the complexity and immense amount of data generated threatens to overwhelm traditional relational database approaches. Ominis® is an Advanced Data Management and Digital Data Mining platform based on sophisticated Artificial Intelligence (AI)/deep learning algorithms in conjunction with Big Data technologies, which can be applied to a wide range of computing platforms including large, small, and cloud-based architectures.

TECHNICAL

The Ominis Deep Learning algorithms can automatically estimate metrics, generate quick-look reports and provide predictive metrics from large-scale data. The automated processing of the AI networks also provides insight into the data itself to unlock hidden value. Adept at handling large volumes of data, Ominis can reliably identify and detect subtle features and data trends, and provide a set of tools that allow Subject Matter Experts (SMEs) to understand and evaluate data more effectively.

The Ominis hybrid network architecture combines Recurrent Neural Network (RNN) cells with convolutional layers to mimic the reasoning capacity of SMEs. RNNs allow the network to learn temporal relationships between input states and the classification task goal. The network can integrate easily into a wide array of existing computational platforms, with minimal impact to the operating efficiency. Designed for large-scale



TECHNICAL (CONTINUED)

computing clusters, Ominis® scales horizontally and vertically to handle terabyte and petabyte sized data. Ominis performs with excellent speed, efficiency and accuracy, with the architecture providing a proven approach to classifying data for analysis.

Ominis® is a modular, scalable, hardware and simulation agnostic, Big Data driven approach to analyzing and understanding modeling and simulation data.

- *Modular design allows for seamless integration into a wide array of systems.*
- *Data driven approach adapts to the intended use case.*
- *Deep learning backed architecture increases the interpretability of highly complex, multi-modal data.*
- *Scalable architecture adapts to the size and scope of the data environment.*
- *Highly optimized architecture can run on a variety of hardware platforms.*
- *Improved analysis speed and integrated operational memory for improved reliability.*
- *User-friendly analysis and visualization tools drastically improve system transparency.*

SECURITY / OPERATION

Ominis security features include role-based login, application authentication and message encryption. Further, the Ominis Application Programmer's Interface (API) operates inside a docker container isolating the API from the rest of the system as an extra layer of security, while ensuring the software does not conflict with other required system dependencies.

Exigent® provides training on how to interface the Ominis network with your database, and understanding the output. A training manual is provided with Ominis purchase.

REQUIREMENTS

CPU	Intel Core i3 or AMD Athlon 6 (or better)
Memory (RAM)	64-bit System: 8GB minimum 32-bit System: 4GB minimum
Operating Systems	Ubuntu 16.04 or higher RedHat 7
Graphics Card	N/A
Minimum Screen Resolution	1280 x 720 pixels
Storage	64GB

Ominis integrates with existing Big Data infrastructures via an extensible API that includes abstracted interfaces for interaction with any database type. Ominis is delivered via direct digital download or a set of DVDs.

PRODUCT DETAILS

Product Name	Ominis®
Version	2019
Manufacturer Part Number	A2019E
Product Type	Single License
Platform	Linux

Revolutionize your business with Ominis.

Schedule A Personalized Demo.

See firsthand how Ominis can enhance efficiency and productivity within your organization.

Request A Consultation.

Meet with our experts to explore how Ominis can address your specific challenges and opportunities.

Have Questions Or Need Assistance?

Our team is here to help. Contact us today to discuss your specific needs and discover how Ominis can help your business thrive.

What customers are saying about Ominis.

"No trouble getting it added onto the system and into our Docker repository."

-Chief Architect

"This has a huge potential for current and future opportunities."

-Technical Director

"Ominis found what I didn't expect, it makes sense in retrospect but I never would have thought about it before."

-Technical Lead

"I like the way Ominis shows the data results, it makes it very easy to understand what it's seeing."

-Senior Data Scientist



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At Exigent, we believe in empowering businesses with intelligent solutions that drive efficiency, productivity, and innovation. Our comprehensive AI products offer a suite of capabilities including AI personal assistants, big data analytics and computer vision solutions.