



# Case study

## D8 Corporation

[www.mavimax.com](http://www.mavimax.com)

## Challenges

One of the main challenges of the D8 Corporation was to select the right technology stack for product development. D8 Corporation has tried several technologies and frameworks in the past for developing server-side and front-end software.

Some of the software was based on in-house made frameworks for C/C++, in other cases frameworks such as Node.js or Java applications servers were used. The struggle for the company was with the interoperability between the different teams that developed software components. As a result, fault tolerance was not at the required levels for 24x7 type solutions, the resources required for frameworks' maintenance and for frameworks' performance were not on the quality level required by the large customers.

## Offered solution

The D8 Corporation approached Mavimax Ltd. for the middleware product which could be used as a key part of the company's product development stack. The Enduro/X middleware was offered to D8 Corporation, which provides a standard-based C/C++ middleware framework with multi-processing facilities.

Middleware provides high system throughput by utilizing in-memory Unix kernel queues for inter-process communications, has fault tolerance, dynamic reconfiguration, has unified, interoperable API for C/C++/Java/Go/Python, and provides clustering options. Enduro/X clusters have horizontal scaling capabilities.

Additionally, Enduro/X provides a configuration management and logging framework. Offered middleware was selected by D8 Corporation and products step-by-step were migrated and developed on the Enduro/X.

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Juris Scerbickis

## Results

Juris Scerbickis, CEO of the D8 Corporation said "Initially Enduro/X was selected for risk management product - Gate2Bank StrongHold. Within 1 year, with Mavimax Ltd. support, D8 Corporation developers did migrate the monolithic, multi-threaded C/C++ application to multi-process based Enduro/X middleware. The results were incredible, while previously system did operate with at maximum 40 TPS, now risk management platform operates nearly 400-600 TPS and may go beyond that, depending on the cluster size."

After the successful migration of the StrongHold program, D8 Corporation started to develop new software based on Enduro/X, such as Digital Wallet Host Card Emulation SDK with VISA VTS and MasterCard MDES support, E-commerce payment gateway interface (for payment cards, PSD2 and Paypal), and payment card transaction processing software.

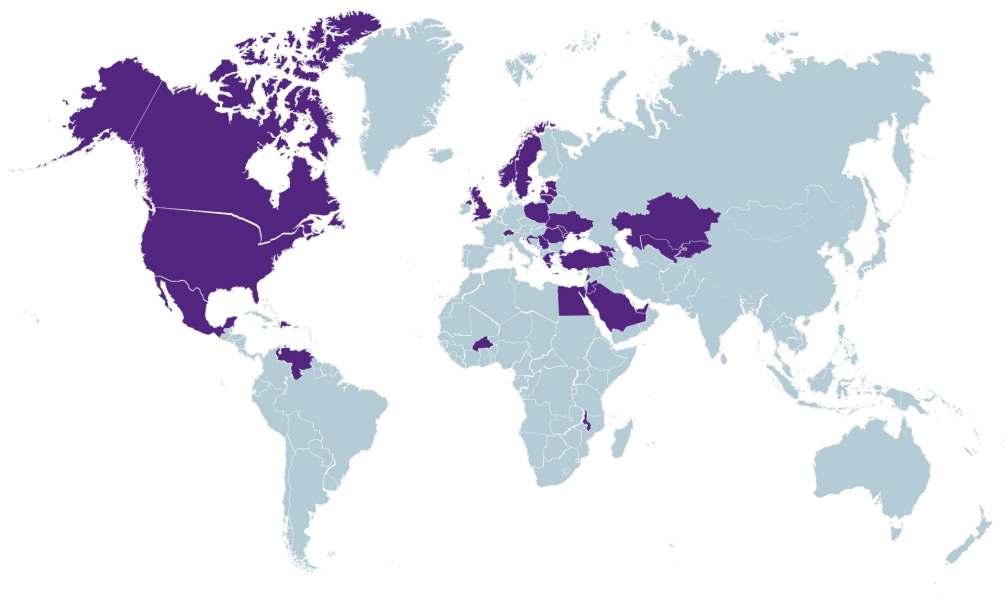
D8 Corporation products utilize C/C++, Golang, Java interfaces to Enduro/X as well Enduro/X Connect module is used for Web Services and TCP connectivity. The deployments are made in Virtual Machines and Docker containers. As end result, D8 Corporation can offer customers integrated, very flexible, scalable solutions.

D8 Corporation have product deployments in 20-30 fintechs (mainly banks) operating with Enduro/X middleware in 24x7x365 mode.

Juris Scerbickis, adds "Enduro/X middleware is of a top quality, we rarely face an issue with the Enduro/X, literally there is 0-1 issue per year. Most of our queries to Mavimax Ltd. are of a consultative nature and Mavimax Ltd. specialists have always promptly responded".

Some of the D8 Corporation customers, which run Enduro/X, include such prominent names as WordLine, SEB, HSBC.

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	<b>Targeted segments:</b> Banks, finance and payments service prov.		<b>ANNO - 2002</b>		<b>Active clients:</b> in 32 countries
	<b>Geography:</b> EMEA, CIS, LATAM		<b>Number of Employees:</b> over 100		<b>Key tech partners:</b> FIS Global, Oracle, Thales



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## Some of D8 customers

