

Customer Success Story

VZVZ, the Dutch Association of Healthcare Providers for Healthcare Communication, is responsible for the exchange of medical data for ALL connected healthcare professionals in the Netherlands. This is achieved via the LSP, the National Exchange Point, a vital part of the Dutch national healthcare infrastructure. VZVZ ensures a sound, secure, and reliable operation of the LSP.

THE CHALLENGE

VZVZ needed to create a robust and easy-to-scale acceptance environment, to improve patient safety and wellbeing while enabling new healthcare providers to connect to the LSP.

THE SOLUTION

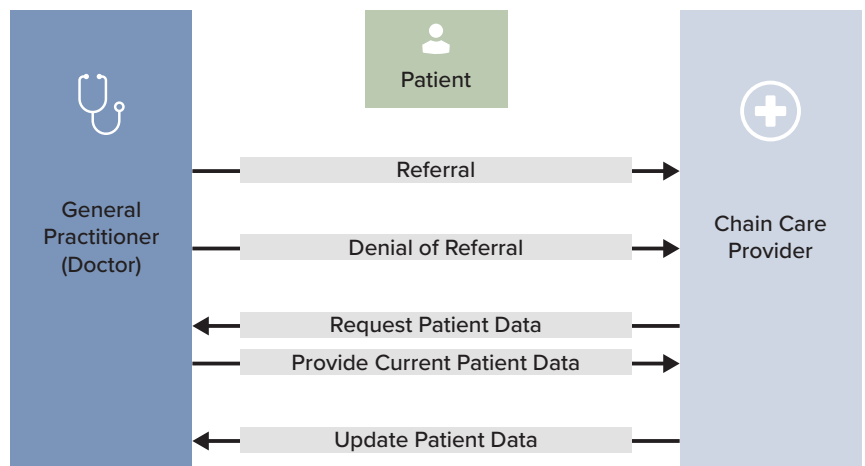
With Parasoft, VZVZ was able to attain a highly-adaptable certification platform for building simulators of healthcare providers. The solution enables VZVZ to monitor traffic coming from and going to the LSP continuously, change test data when needed, and adapt the simulation when new versions of service definitions are released.

Testing at VZVZ

VZVZ is a non-profit organization, founded by healthcare professionals and funded by health insurance companies to be responsible for the exchange of medical data of connected health care professionals in the Netherlands as is shown in the figure below.

Medical data is transferred via the LSP, the National Exchange Point, a vital part of the Dutch national healthcare infrastructure. VZVZ's role is to ensure a sound, secure, and reliable operation of the LSP.

The Continuous Communication of Patient Data



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Parasoft's software enabled the dynamic testing of the exchange of messaging via the LSP on the acceptance environment.

Emiel den Oude, XIS Testcoordinator, VZVZ Test Team

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VZVZ's Testing Challenge

To ensure correct connectivity between healthcare information systems from care providers to the LSP, VZVZ needed an acceptance test environment.

They also wanted to connect new healthcare providers to the LSP in order to broaden the use of the LSP while also improving patient safety and wellbeing. Achieving this goal would mean that an increasing number of information systems for healthcare providers would be connected to the LSP. To enable this, the acceptance environment had to be changed.

Configuring a Good Solution

In a thorough market assessment, VZVZ examined proprietary and open source products. They considered multiple technical and security criteria.

VZVZ also looked at the availability of local service and support. Finally, it took pricing and cost effectiveness into consideration. This resulted in the introduction of Parasoft's continuous testing solution.

This solution was chosen, for several reasons, including:

- Parasoft could simulate the messaging of medical data via the LSP.
- Parasoft could test the functionality of smart card technology (UZI cards), used for health care professionals to access the LSP.
- Technicians from Parasoft were needed to help VZVZ Operations simulate and test the exchange of messaging via the LSP on the acceptance environment

With the Parasoft solution, VZVZ gets a highly adaptable framework for building simulators of healthcare providers. These simulators are configured to work together, storing state-based data to support complex test scenarios. Using this technology, VZVZ is able to monitor traffic coming from and going to LSP continuously, change test data when needed, and adapt the simulation when new versions of service definitions are released.

The technology from Parasoft is normally used to support teams in their agile way of

working by making them independent of third parties. At VZVZ, this technology is taken a step further: it is used to create a *certification platform* by simulating other parties within a LSP network.

Results

VZVZ is now able to process modified or new suppliers through the same strict acceptance test without needing the availability of other dependent parties. It is simply a matter of simulating the required scenarios. This helps VZVZ keep the quality of structured information exchange in the healthcare at the required level which is a constant challenge.

The changes made within the certification environment resulted into supporting testing throughout the entire chain to ensure that exchange of medical information/data was not disrupted on a national scale, and that new developments could be tested and implemented faster.

The positive results of the LSP project made VZVZ decide to use Parasoft for their next challenge: How to ensure correct roll-out of a new peer-to-peer network for personal medical data exchange on a national scale.

Parasoft stands out at VZVZ:

“ Highly-complex message exchange and application integrations are becoming increasingly important for VZVZ and its members. By using Parasoft technologies, testing can now be done on all connected systems instead of testing each system separately.

Emiel den Oude, XIS Testcoordinator, VZVZ Test Team

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ABOUT PARASOFT

Parasoft helps organizations perfect today's highly-connected applications by automating time-consuming testing tasks and providing management with intelligent analytics necessary to focus on what matters. Parasoft's technologies reduce the time, effort, and cost of delivering secure, reliable, and compliant software, by integrating static and runtime analysis; unit, functional, and API testing; and service virtualization. With developer testing tools, manager reporting/analytics, and executive dashboarding, Parasoft supports software organizations with the innovative tools they need to successfully develop and deploy applications in the embedded, enterprise, and IoT markets, all while enabling today's most strategic development initiatives — agile, continuous testing, DevOps, and security.

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Automated Software Testing

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