



Interoperability for today and tomorrow





New Zealand

Odin Health

Interoperability for today and tomorrow

- Trusted by over 470 health organizations and many top tier HIT vendors, founded in 2014
- Replaced numerous world-renowned brands with its future-proofed and cost efficient products
- Built-in health standards, including FHIR
- Supported by NZ government: Callaghan Innovation funding, NZTE Focus 700
- Accelerating interoperability and reducing total cost of ownership (TCO).



Leading Edge Solutions

For the ever- evolving needs

- All in One - Integration Engine, ESB, ETL, API ...
- Innovative all-in-one Cluster
- Cloud native solution oriented for healthcare



Four platforms to meet all customer needs

Odin Engine Standard Edition

- 3 in 1 : IE (Integration engine) , ESB, and ETL in a single product. Choose between store-and-forward and ESB type of integration workflow
 - Store-and-forward provides similar offering as traditional IE
 - ESB workflow performs 10-15x better, designed for request and response type of service integration
- Multifunctions: 3 in 1 + many other functions
- Unified UI: Odin offers the full cycle of workflow configuration /development, data mapping, deployment (devops), testing, message tracing and monitoring under one web based interface

Much more powerful and easier to use
than traditional IE





Four platforms to meet all customer needs

Odin Engine Enterprise AO Edition

- Active-Active, Odin applications are cluster aware
- Failover feature is built-in to Odin at application level, requests can be redirected to backup Odin application instantly by load balancer
- Failover takes seconds instead of minutes (backup Odin AO application is always running side by side with primary)
- Configurations are automatically synchronised from primary to backup instance
- Message stores are clustered between Odin AO applications; tracing logs, metrics, and notifications are aggregated and presented under a single pane of glass
- Message search is performed across both primary and backup instance

Traditional IE vendors are unlikely to offer products similar to Odin AO, Cluster, and Odin NeXT.





Four platforms to meet all customer needs

Odin Engine Cluster Edition

- Large healthcare organisations
- Adds support for active multi-node clustering for scaling and resilience
- All in one, extremely easy to use

Odin NeXT Cloud Edition

- Native Support for health standards - HL7, FHIR, DICOM, XML and JSON
- Extremely Easy to use and manage through unified UI
- Supports public, private & hybrid cloud, cloud provider agnostic

Traditional IE vendors are unlikely to offer products similar to Odin AO, Cluster, and Odin NeXT.



Performance in Intel Testing Lab

- **Background:** Odin Engine Cluster Edition, with 3/5/7 worker instances
- **Test Result:** in TPS (transaction per second)
 - 3 workers: 12442.96 TPS
 - 5 workers: 19522.10 TPS
 - 7 workers: 22537.69 TPS

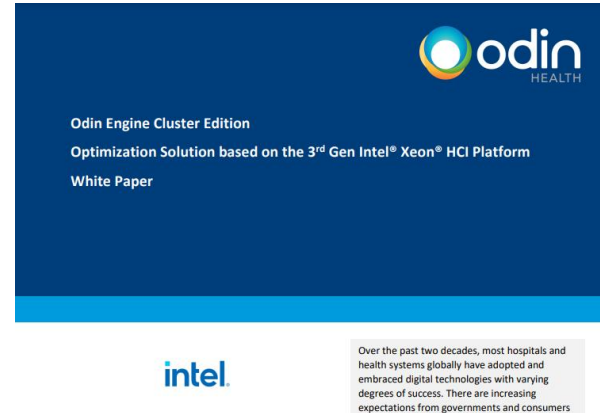
- **White Paper**

Chinese version (**published on Intel website**)

<https://www.intel.cn/content/www/cn/zh/cloud-computing/odin-engine-cluster-edition-optimization-solution.html>

English Version

<https://www.odinhealth.co.nz/en/resources/OdinCluster-Intel-Whitepaper.html>



White Paper Front Page

Why choosing Odin Engine

Exceptional Experiences

- **High Stability & Performance**
- **High Availability & Scalability**
- **Extremely easy to use**

Unified UI, All in One, Localization

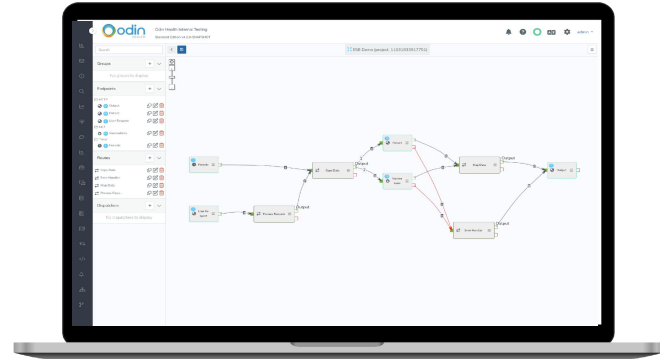
Low TCO

The more you buy, the more you save!

- **Low purchase cost**
- **Low implementation cost**
- **Low maintenance costs...**

Trusted by top tier HIT vendors

Unique and exceptional experiences of
Products & Services



Case Study——ALEX Project

- Putting a secure cloud-hosted API layer over the top of **the 900 GP practices**
- Support up to **a billion transactions** a year
- Implemented entirely using **FHIR APIs**



“The Odin NeXT middleware was crucial to the success of the ALEX project. We now provide solution vendors with a safe, secure and scalable method of exchanging information contained in the patient record”.

——Medtech’s CEO, Dr. Geoffrey Sayer



Case Study——Peking University People's Hospital

- No.8 in the annual ranking of Chinese hospitals*
- HIMSS Stage 7 certified in 2014 (1st in China and 2nd in Asia)
- Three main medical campuses
- 21000+ outpatient visits per day, 3200+ beds
- The **Odin Cluster** processed over **43 million** messages daily in March, with the volume continuing to grow.
- Load testing **430 million** message daily
- Implemented using **FHIR standard**



*<https://bynews.bjmu.edu.cn/zhxw/2019n/ff8ea0d38eb04969922651749777e6af.htm>

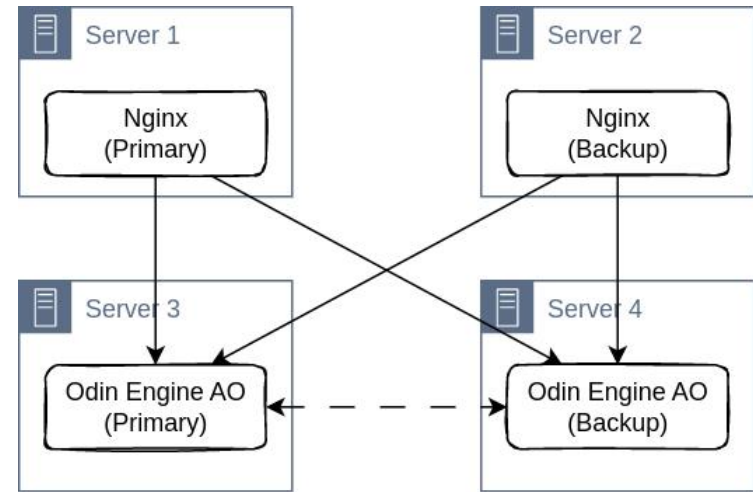
Case Study——Enze Medical Group

- **3000** inpatient beds, **11000** outpatient visits per day
- **4 million+ messages** processed per day
- **Odin Cluster integrates**
 - **350+** clinical workflows
 - **1000+** connected endpoints



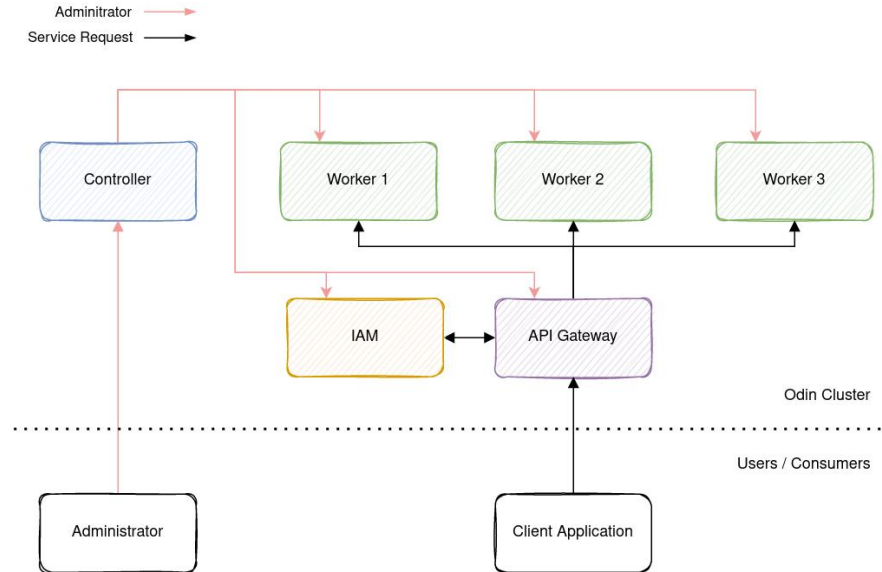
Odin Enterprise Engine AO

- **Active-Active** dual nodes
 - no single point of failure
 - Nginx servers are optional
- All-in-one, easy to deploy and maintain
- Battle-tested in over 450 hospitals
- Best seller



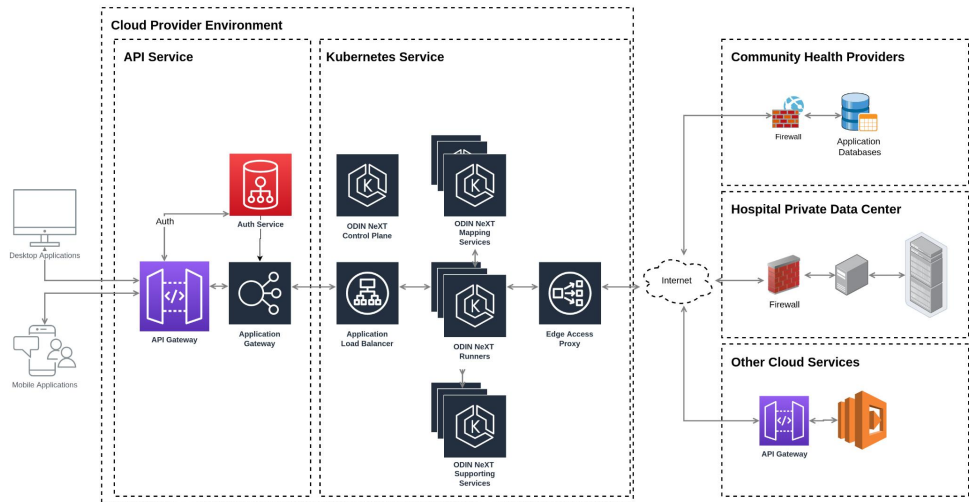
Odin Engine Cluster Edition

- Built-in Dev and Prod Environments
- **Horizontally scalable** workers
- Built-in API Gateway & IAM
- API-First Design
- Configuring & monitoring from a single pane of glass



Odin NeXT Cloud Edition

- Built-in health standards, including FHIR
- Cloud native (Kubernetes)
- Microservices architecture
- Cloud provider agnostic - AWS, Azure, Alibaba Cloud, etc.
- Supports on-prem (Racher, etc)





Partnership

- Accelerating interoperability and reducing total cost of ownership (TCO)
- Create innovation future-proof platforms to meet the current and future demands of the ever-evolving healthcare industry

Articles about Odin products and case studies

- Odin Engine Cluster Edition Optimization Solution based on the 3rd Gen Intel® Xeon® HCI Platform — White Paper (Oct, 2022)
[\(English Version\)](#) / [\(PDF file\)](#)
- The Different Flavours Of Healthcare Integration (Aug, 2020) [\(English Version\)](#) / [\(PDF file\)](#)
- Unlocking NZ Primary Care Data - ALEX And Odin Health (July, 2021) [\(English Version\)](#)
- Birthday Milestone – Odin Health Awarded Callaghan Innovation Growth Grant (July, 2018) [\(English Version\)](#) / [\(PDF file\)](#)

And more.....