BUILD YOUR HYBRID

HEALTHCARE INTEGRATION

MEDICAL APPLICATION CONNECTION HUB – MACH

MACH provides hybrid cloud integration for health data. It's a secure, open standards-based platform hosted in the cloud that allows you to deploy on-premises and cloud-native integration services quickly and easily.

MACH provides a secure, reliable and compliant platform for sharing health data between medical applications.

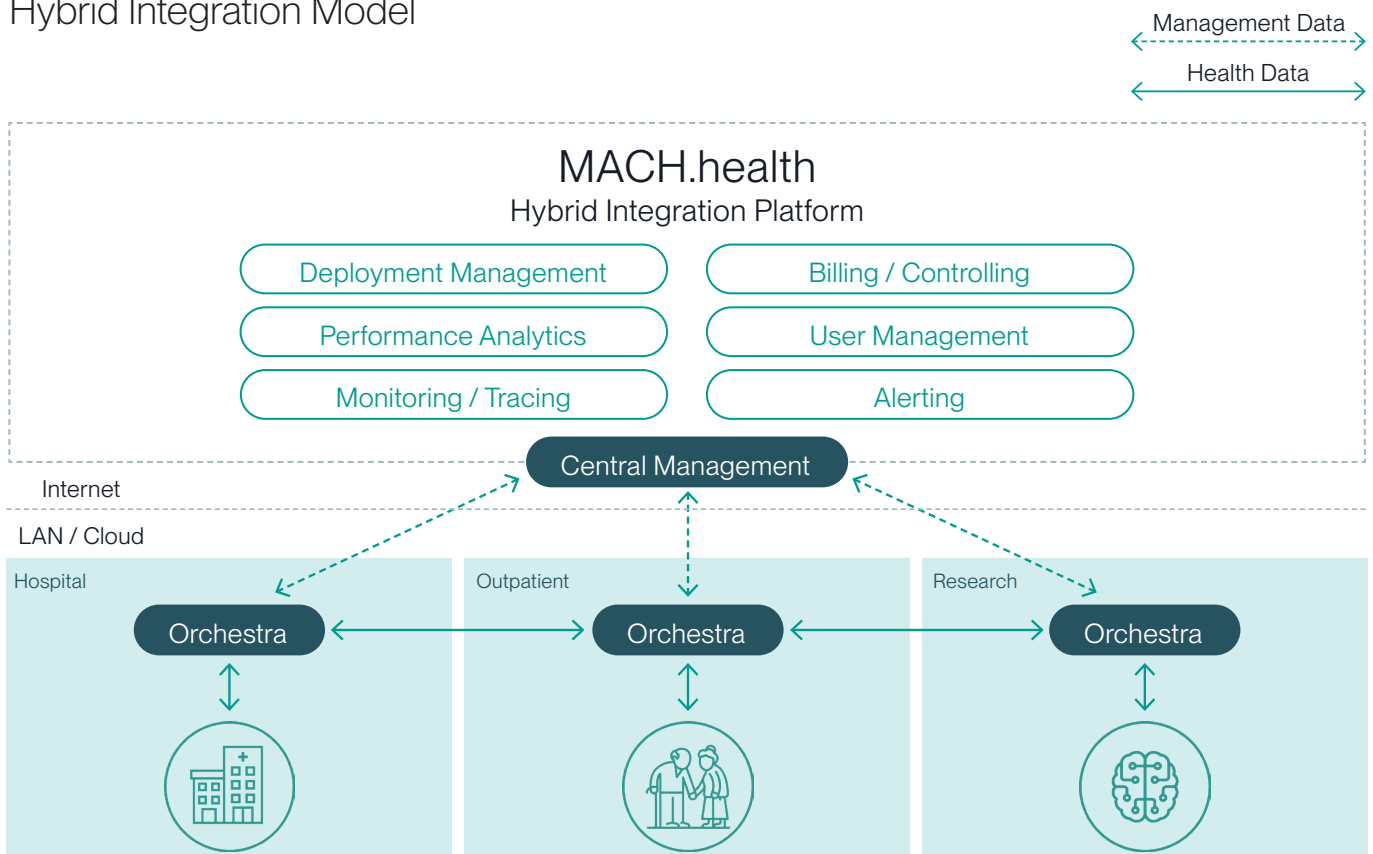## MACH Platform
Hybrid Integration Model

Image 1: Architecture

Are you a clinical application provider who wants to scale their application globally? We provide everything you need from a single source, whether you want to connect one hospital or a thousand. MACH allows you to manage instances centrally, making it highly scalable. It is API-driven and prioritizes data protection by design and default.

MACH is provided as a SaaS model to cover the entire lifecycle of an interface and can be fully integrated into partner solutions.

The Orchestra Health Service Bus (OHSB) on which MACH is built provides industry standards-based message transformation tools for all flavors of HL7 (v2 and v3), FHIR[1], and supporting standards such as ASTM, XDT, EDIFACT, CDA, CCD, CCDA and DICOM. MACH also supports device integrations[2] and all widely used communication technologies, such as MLLP, TCP/IP, JDBC, SOAP, REST, DICOM Worklist, and TLS certificate-based exchange. The

built-in DICOM routing features offer DICOMweb and DIMSE, MPPS, plus change and (semi-automated) anonymization functions, which can be implemented as pre- and post-processing steps facilitated by MACH. MACH also offers a hybrid configuration: if required, you can customize the centrally managed cloud platform by connecting to an on-premise instance.

How you manage and monitor data flows is the determining factor in how effective a data integration platform is. On the MACH platform, monitoring is possible from a cluster perspective all the way down to individual instances, allowing for high-level status investigation as well as in-depth scenario exploration.

As an experienced integration partner, x-tention is also happy to provide services that help our partners place their clinical solutions on the market more quickly. We offer 24/7 support in German and English and can monitor your integration landscape proactively.
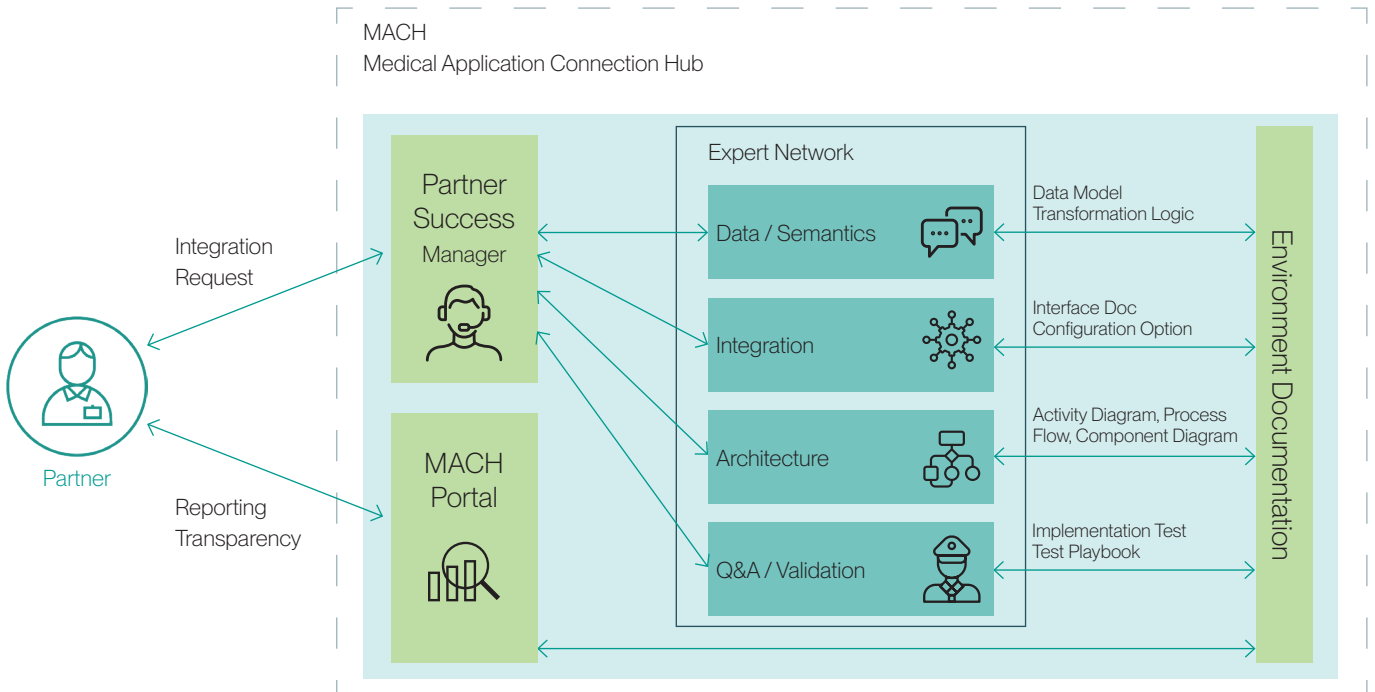
Global Health Data Integration

Image 2: Service Model

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[1] HL7, FHIR and the 🔥 HL7® FHIR® Logo are registered trademarks belonging to Health Level Seven International
[2] Native device integration requires a hardware dongle from the vendor to transform serial inbound stream

Share your pressing integration challenges with us!

Get in touch.

Our hybrid integration experts are happy to help:

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