PHILIPS

AI Manager

Technical Data Sheet

Efficiently leverage AI in your daily clinical routine

Benefits of our end-to-end AI enablement solution

Philips AI Manager offers an end-to-end AI enablement solution that can seamlessly integrate with your existing IT infrastructure and PACS solution. It enables your radiologists to leverage AI applications for comprehensive assessment and gain deeper clinical insights in your radiology workflow. AI Manager serves as your single integration point for 100+ AI applications from 35+ contracted AI vendors and upcoming AI applications offered by our partner Blackford Analysis. Philips facilitates the transaction as an agent.

Automatic analysis of medical data and extraction of relevant information to generate meaningful – and actionable – insights that enable more precise and personalized patient care.

Large portfolio of validated third party AI algorithms that integrate seamlessly in the existing radiology workflow, available through a common commercial channel, offered by our partner Blackford Analysis.

We enable healthcare providers **to easily implement AI apps into their workflows** – including apps from third parties – via a common platform, **AI Manager, hosted on-premises or in the cloud.**

Philips AI Manager is not intended for data interpretation or diagnosis. Availability of third party algorithm may vary per market. The functionalities and benefits of the solution depend on customer-specific configuration and use. Please contact your local Philips representative for market availability.

Systems specifications

Philips AI Manager is a comprehensive solution for managing and interfacing AI applications and the required data, for optimizing clinical workflows and dynamic reporting. It enables Philips point of care solutions to become open application platforms. It hosts and enables deployment of multiple AI applications for multiple tenants in the cloud or on premises. Imaging, clinical and administrative data from hospital health systems environment (such as PACS, HIS, RIS, modalities or other devices/sources) are made available for AI applications.. Results/outputs of the AI applications can be reviewed and routed to pre-defined devices.

It serves as a single integration point to host and execute multiple AI applications on patient study data for more comprehensive assessment. AI Manager works with multi-vendor, multi-modality data and supports the data sources and data types required by the AI applications and Philips products, e.g.DICOM and DICOM SR. It supports the integration of both Philips and third party AI solutions. The AI applications are commercially available to customers through the AI app portfolio from Blackford Analysis.

The Philips AI Manager augments the skills of radiologists with AI-generated results from the Blackford Analysis portfolio of AI apps. Execution of these applications can happen on a locally hosted AI application server or by sending the de-identified data to a public cloud-hosted service. Image orchestration to a suitable app will be done by the AI workflow engine server, which is always hosted on-premises.

Philips AI Manager does not alter AI applications or devices, medical device output data or the medical device algorithms. Philips AI Manager is not intended for data interpretation or diagnosis. AI Manager allows the users to accept and reject single AI results/findings based on the intended use of each AI application. The system is not intended for data interpretation or diagnosis, and therefore is not considered as a medical device.

The Philips AI Manager requires at least two virtual machines to be installed on-premises. The first virtual machine is the AI Workflow Engine server, a Windows Server managing the AI app orchestration service and the data de-/re-identification service. The second virtual machine is a Linux server executing the selected AI algorithms in a docker container. This virtual machine will also route data to the cloud if needed. Additional virtual machines might be needed for heavy workloads.

Virtual machine specification

The specifications below are the minimal requirements for a typical installation. The specifications are directly related to the number of AI applications, the expected (peak) load and the complexity of the algorithms selected. Your Philips representative can give you more detailed information based on your specific solution.

Workflow Engine (Windows)

10 Cores
24GB RAM
512GB SSD

Application Server (Linux)

16 Cores
64GB RAM
512GB SSD

Network specification

LAN Network bandwidth between DICOM Gateway, modalities or any other servers should be minimum 1 Gbps with 5 ms latency. Internet connectivity (cloud connection between DICOM Gateway and public cloud) should be minimum 100 Mbps, but preferably 250 Mbps with latency < 50 ms.

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