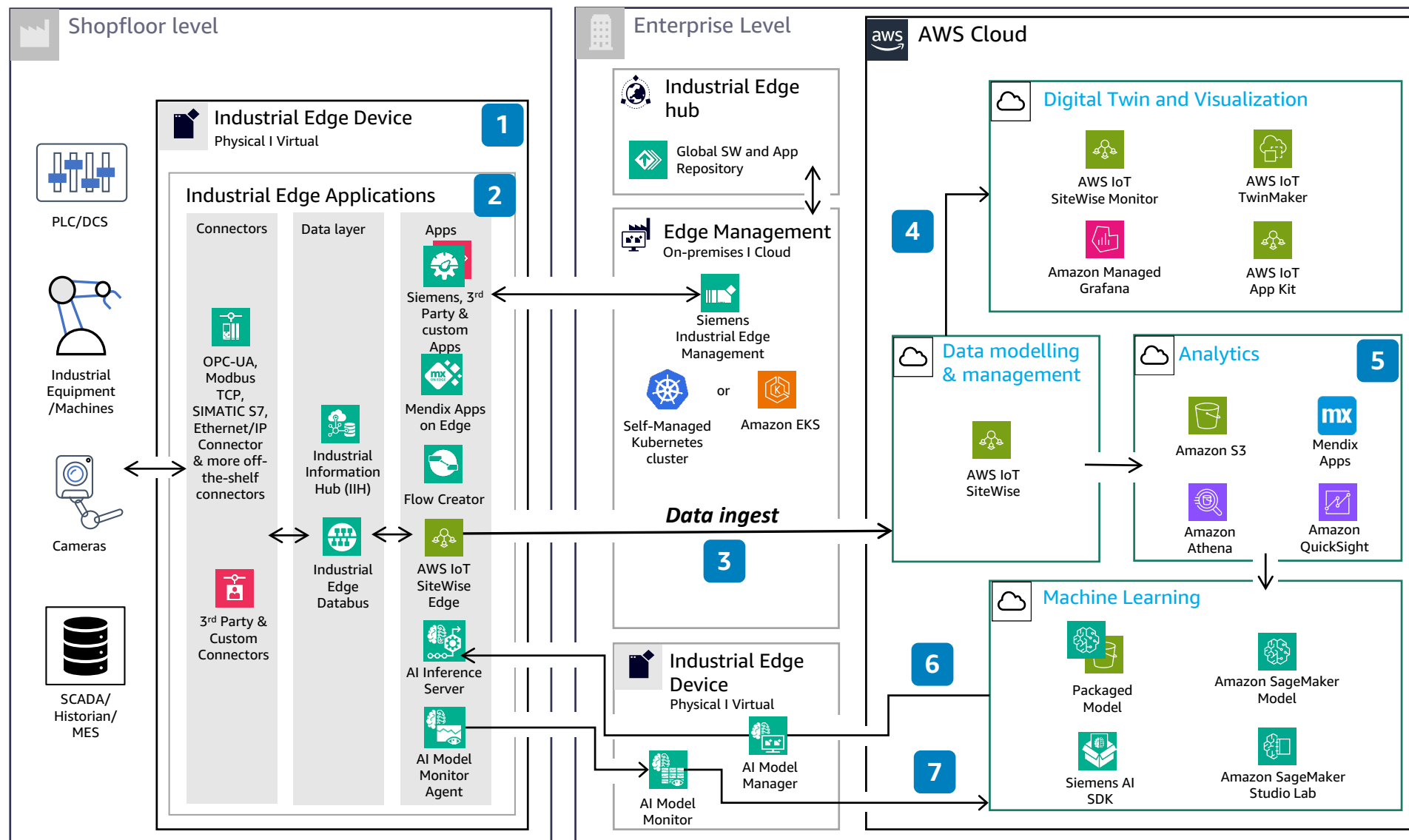


# Integrate Siemens Industrial Edge with AWS IoT Sitewise

This reference architecture illustrates the integration of AWS IoT SiteWise Edge on Siemens Industrials Edge.



- 1** Siemens Industrial Edge is an **open software platform** for simple, scalable and manageable **shop-floor IT**. It provides decentralized and local data acquisition, storage, analytics, AI, and **connectivity to AWS**. The **Industrial Edge Management** application allows the remote and central management of edge devices and applications.
- 2** **Southbound connector applications** on **Industrial Edge Devices** collect data from industrial assets for on-premises processing and analysis with Siemens apps such as **Energy Manager** and **Performance Insight**. Customers can create **own apps** through **Mendix on Edge**, **Flow Creator** or use Docker apps.
- 3** **AWS IoT SiteWise Edge** on Industrial Edge devices collects and aggregates data and sends it to **AWS IoT SiteWise**.
- 4** **AWS IoT SiteWise Monitor**, **AWS IoT TwinMaker** or **Amazon Managed Grafana** get data from AWS IoT SiteWise to create visualizations and get insights into collected industrial data.
- 5** **Amazon Athena** allows query of cold IoT data from **Amazon S3** for **data analytics** with **Amazon Managed Grafana** or **Amazon QuickSight**, or **Mendix** low-code apps.
- 6** **AWS AI/ML Services** use data from Amazon S3 to train ML models, then combined with **Siemens AI SDK** to package and deploy ML models back to the edge.
- 7** **Siemens AI Model Manager** deploys and manages ML models on the edge. The **AI Inference Server** executes the models. **AI Model Monitor** monitors them and provides results for model improvement.

