IoT reference architecture – technical view

**Components:**
- **Asset:** Products
- **Modem:** SDK
- **Field gateway:** Mesh SDK
- **Cloud:**
  - Edge
    - Edge SDK
  - Data processing layer
    - Monitoring and alerts
    - Sensor data processing
    - Device provisioning
    - Asset/device management
    - Asset track and trace
  - Data storage layer
    - Azure Time Series Insights
    - Azure Cosmos DB
    - Azure SQL
  - Data platform
  - Compute services
  - Analytics services
- **Products and business applications:**
  - RCM
  - Connected vessel
  - Beacon
  - Digital products
  - Business intelligence products

**Applications:**
- Microsoft Azure IoT Hub
- Device provisioning service
- Web Apps feature of Azure App Service
- NGINX+
- Azure Functions
- MQTT broker
- Azure DevOps CI/CD code repository
- Azure API Management
- Azure Active Directory
- Application Insights
- Microsoft Operations Management Suite/Azure Monitor

**Integration:**
- Azure Event Hubs
- Azure Service Bus
- Azure Event Grid

**Platform services:**
- Cloud ingestion
- Cloud platform services
- Data processing layer
- Asset track and trace
- Data platform
- Compute services
- Analytics services