adesso

Medical device Data Platform

MDDP

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BUSINESS VALUE FROM MDDP

Based on clean field Data, multiple stakeholders gain value from the MDDP



Assay Development and Validation

How can we ensure 100% precision?

- Fast and efficient Data access and retrieval, clean and high-quality data, shared and single-source Data for all Assay Development Engineers
- Quick and precise Evaluation of accuracy, precision, sensitivity, specificity, or reliability of the medical device



Service & Maintenance

When will the device most likely break down and why?

- > Device Analytics, Data needed on probability of errors or maintenance
- Field issues Analytics and customer issues / engagements, real-time troubleshooting



Product Development

How is my device used in real-World settings?

- Data About Usage and performance of Device, Malfunctions and usage patterns
- improve device design, enhance functionality, and identify areas for optimization



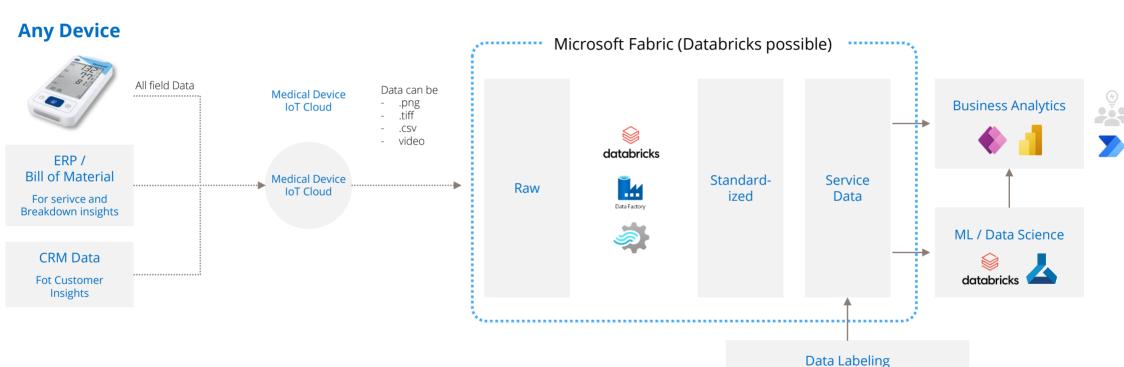
biotruths, manual interpretations and additional experiment conditions

Advanced Analytics Platform

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MEDICAL DEVICE DATA PALTFORM

IoT Cloud / Data Lake



Key Features:

- Supports Near-Real Time data avaliability
- > Data Download for official documentation
- GxP Validation possible
- > Self-Service creation of Reports, access to Data Products

Bio Engineer (IVDs)

Search past measurement Data, enrich data by expected outcome, test environment, fluidic and array images. Standardized reports immediately after measurement, realtime data.

Assay Development (IVDs)

Key Data (intensity, pressure, temperature) plots, analyze various data (eg. Device ID, date, assay ID, Bead-Lot, lot-no.). Add and modify ground truth and bio truth.

Device Software Engineer

Medical device Software system engineer and analysis algorithm engineer, run analysis algorithms on data subsets and store results, add new performance metrics, compare algorith performance

Quality Control

Analyse device activity discrepancy and react, automatic notification possible. Analyse discrapancy data over time to react to trends. Identify Quality issues and cause of issues, report issues and quality metrics.

Customer Support

Customer data in combination with device data to enable fast compliant evaluation and adequate customer feedback, increase field service quality, calculate breakdown and device part breakdown probability.

Involve all data stakeholders

Every user group involved with the product and the product development can draw valuable insights from the data platform.

The real value lies in the generation of data products, thus enabling every user explore the data their own.

Enable everybody to make data-based decisions.

I WANT THE MDDP – HOW DO I GET THERE?

