

 Diver Platform's™ MEASURE FACTORY™



Integration | Collaboration | Data Governance



Dimensional Insight's new Diver Platform module, Measure Factory, is a business rules engine which ensures hospitals have consistent, clearly defined, and documented business rules for their financial, operational, and clinical business measures. Hospitals are using Measure Factory to create a single version of the truth, eliminate infighting over business rules, and document definitions so business units have the key statistics and understanding they need to make informed decisions.

- Do you face difficulties integrating data from cross-functional data silos into comprehensive business analytics?
- Do you have users creating reports with inaccurate or misleading numbers?
- Do you need to apply business rules across the enterprise to get everyone "on the same page"?
- Do you need consistent business measure with definitions vetted by subject matter experts and stakeholders?
- Do you need to trust, efficiently use, and manage data to make critical data-driven, evidence-based decisions?

If you answer "yes" to any of these questions, then you should learn more about Dimensional Insight's Measure Factory.

The screenshot shows the 'Measure Definition' page for 'Acute ALOS' in the 'HealthcareAware BI | Hospital' system. The page is divided into several sections:

- MEASURE DEFINITION:**
 - Measure Name:** Acute ALOS
 - Definition:** The average length of stay for inpatient encounters designated as acute calculated as Acute Discharge Days divided by Acute Discharges summarized by discharge date.
 - Business Rule:** Calculate as Acute Discharge Days divided by Acute Discharges. Summarize by Discharge Date.
 - References:** Essentials of Statistics in Health Information Technology; UB-04 Specifications Manual
 - Timeframe:** Discharge Date
- Observed Value Calculation:**
 - Numerator:** Dataset: Hospital Encounters; Data Element: Discharge Days
 - Denominator:** Dataset: Hospital Encounters; Data Element: Discharges
 - Display:** Type: Ratios; Format: 0; Abbrev Calc: N/A; Abbrev: N/A
- Target Value Calculation:**
 - Numerator:** Dataset: Hospital Encounters; Data Element: Discharge Days
 - Denominator:** Dataset: Hospital Encounters; Data Element: Discharges
 - Display:** Type: Ratios; Format: 0; Abbrev Calc: N/A; Abbrev: N/A
- PAGES:** Dashboard-Overview; Inpatients - Complete Month; Inpatients - Month-to-Date; Inpatients - Overview; Inpatients - Year-to-Date
- QUICKVIEWS:** Calendar; Discharge Year-Mo; Facility
- SUMMARIES:** % Total Acute Discharges; Acute ALOS; Acute ALOS % Variance +/-; Acute Discharges; Avg Severity; Case Mix Index; Exp Acute ALOS
- DIMENSION LIST:** APR-DRG; Admit Date; Attending Provider; Chronic Diseases; Discharge Date; Encounter ID; Facility

SINGLE VERSION OF THE TRUTH

Business rules, and other metadata, applied consistently across data sources, ensures data integrity, standardization, and greater faith in the data by end users. In Measure Factory, metadata is defined with the concept of a measure. A catalog of measures, called the Measure Dictionary, bundles the following metadata about each measure:

- Definition
- Business rule
- Timeframe
- References
- More details

Measure Factory ensures that the same definition of a measure is applied every time that measure is created and standardized from every source the data is extracted. Define the measure once, and reuse it multiple times all on an automated basis.

The metadata items are all attached to each measure. When the measures are later displayed on a dashboard or report, the metadata items are available to the end user by a simple mouse click. Not only are users now all working with data built using consistent and validated business rules, they also have a better understanding of what the numbers represent.

INTEGRATED COLLABORATION

Collaboration is an integral component of Measure Factory's data governance. As it creates each measure, it automatically creates a collaborative framework for governance team members to contribute.

Executives, governance committee members, stakeholders, and subject matter experts can collaborate about measure definitions. Service leaders, data owners, data stewards, data analysts, and IT members on cross-functional teams can collaborate and resolve any inconsistencies with the definitions or processes.

Measure Factory supports and maintains the communications between stakeholders and thereby tracks changes and the underlying reasons for those changes.

For example, collaboration can assist in the following data governance areas:

- Determine measures to be tracked
- Assign teams responsible for the measures
- Define measures and business rules
- Document the data required for each measure and where the data is located
- Retain histories and conversations about each measure

Measure Factory helps to build institutional knowledge with collaboration across functional silos. It allows business units to collaborate on rules and measures so they have buy-in and acceptance of the measures.

The screenshot shows the 'Hospital Operations' dashboard with a 'Measure Definition' view for 'HWR 30D Readmit Rate'. The interface includes a navigation bar with 'Back' and 'Home' links, and a 'Print' button. The measure is currently set to 'MTD' (Monthly To Date) with a value of 1.30, and 'YTD' (Year To Date) with a value of 3.30. A bar chart shows the YTD trend. The main content area is divided into three columns: 'Definition', 'Business Logic', and 'Expression' on the left; a central 'Add topic' section with a discussion titled 'Ongoing Effort to Keep Readmission Rate Down'; and a 'NOTES' section on the right containing three messages from Sue Smith and Jim Graham dated 6/1/17. A bottom navigation bar shows '2 Quickview', '2 Summary', '31 Dimension', 'Analysis', and 'Composition' options.

PREDEFINED OFF-THE-SHELF MEASURES

There is no need to start from scratch. Dimensional Insight offers hundreds of predefined, industry standard measures for both hospital and ambulatory care settings. Dimensional Insight Knowledge Bases contain domain specific predefined measures for a variety of topical areas, such as: Hospital and Ambulatory Operations, Revenue Cycle, Enterprise Productivity, ED, and a growing library of other topical areas.

Knowledge Bases are great starting points. New measures can be added and prepackaged measures can be adjusted. They can be customized to meet your specific needs.



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About Dimensional Insight

Dimensional Insight is a leading provider of integrated business intelligence and performance management solutions. Our mission is to make organizational data accessible and usable so everyone from analysts to line of business users can get the information they need to make informed, data-driven decisions.



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