

# KPI Intervals

## KPI Calculation for Non-OEE

While [KPI Calculations](#) are typically used to capture the raw data needed to tabulate OEE KPIs, they are also very useful for capturing the building blocks for nearly any production related KPI.

### Intervals

KPI data is collected and stored in an Interval table called [tOeeInterval](#) (named for OEE the most common use).

### Columns

The Interval table contains columns for nearly every related entity for report grouping and filtering within a production environment including...

- System
- Date / Time
- Job
- Product
- Batch
- Shift
- Team
- More...

### Time (Events)

The KPI engine within Logic Track automatically rolls up Event occurrences and stores them in standard time bucket columns including...

- Legal Loss
- System Not Scheduled
- Availability Loss
- Performance Loss

### Flow (Counters)

The KPI Counter configuration and mechanism can be used to monitor a constantly increasing flow Tag and intelligently accumulate incrementation within each Interval. Uses include...

- Production Counts
- Flow of Material
- Utility (WAGES) Meters

# Interval Capture and Seconds Fields

For situations where the standard Interval columns are not adequate or additional values or accumulations need to be stored, the [tOeeInterval](#) table includes 20 extensibility columns. [Capture](#) for string values (Capture01 – Capture10) and [Seconds](#) for integer values (Seconds01 – Seconds10).

The following are the recommended strategies for populating these extensibility columns...



### Logic Service Scripting

Logic-driven, real-time business rules to calculate capture values can be implemented as [System Script Classes](#) executed within the Logic Service. The following methods can be overridden to use the API to update the current Interval record as its created, update and ended in real time...

#### [PostScanOeeIntervalStart](#)

Fires just after an Interval is created.

#### [PostScanOeeIntervalUpdate](#)

Fires each time an Interval is updated (usually every minute).

#### [PostScanOeeIntervalEnd](#)

Fires just after an Interval ends.



### spUpdateOeeInterval

For updates to the extensibility columns at the database level, custom SQL added to the following [stored procedures](#) will be executed each time an Interval is updated...

- [spUpdateOeeInterval\\_Extension](#)
- [spUpdateOeeInterval\\_ExtensionTable](#)

There are various built-in SQL functions that aid in tabulating different types of Events that may cover the Interval.