

ORTEC Workforce Scheduling 7

User Manual Module BI Support

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ORTEC

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1 BI Support

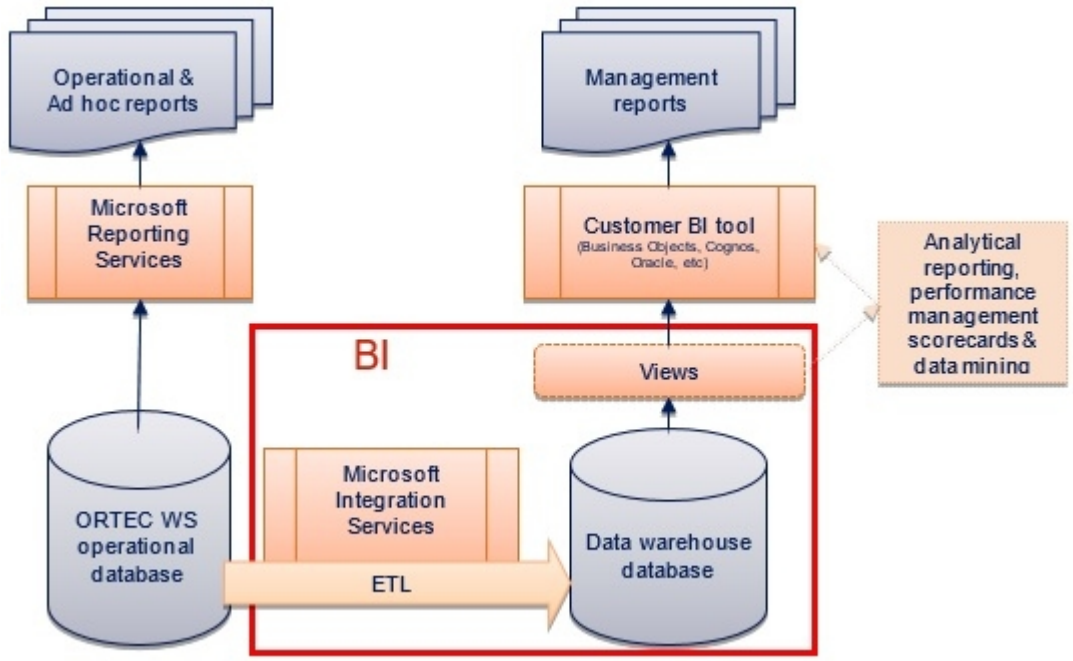
ORTEC Workforce Scheduling contains valuable information for management reports that can help improve the quality of workforce scheduling. However, **ORTEC WS**'s database is optimized for operational purposes and therefore less suitable for creating management reports. The **BI Support** module offers a solution by providing an **ORTEC WS** DataMart, generated from the **ORTEC WS** database, which is specifically designed for creating management reports. These reports can provide insight into operational and overhead hours, the alignment of planned deployment with staff availability, and violations of labor regulations.

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2 Background

2.1 Positioning of BI Support

The BI Support module is used in the process of creating reports from ORTEC Workforce Scheduling. The data from the ORTEC operational database is transformed and moved to a data warehouse using Microsoft Integration Services. The data warehouse consists of two databases: HDM (Workforce Scheduling DataMart) and HDM-Stage. The data is first stored in HDM-Stage and then transformed for reporting and stored in HDM. Views are added to HDM for reporting purposes and to allow adjustments to the HDM data model without affecting existing reports. Management reports should always be created on the views. Customers using their own analysis tools, like data mining, should also use the views. The following diagram illustrates the position of BI Support in the report creation process:

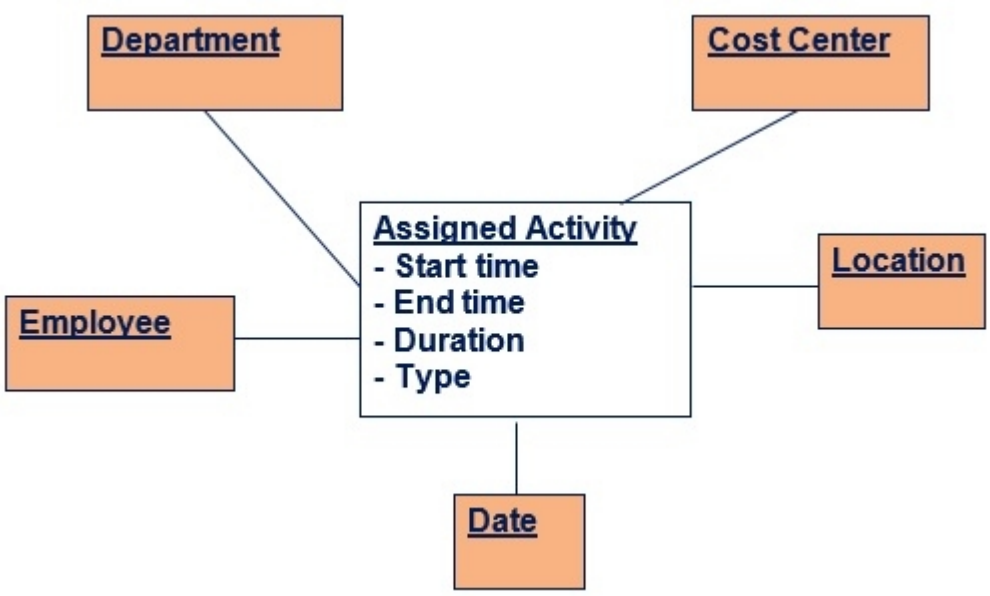


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2.2 BI Support views

View Type	View Name	Description
Fact	FACT views	Contain values used for reporting, such as availability of employee or scheduled working time.
Dimension	DIM views	Contain dimensions, such as employee, date, time, department, and cost center.
Example	Example views	Provide the same information as FACT views, but with reference keys replaced by names of objects in dimensions. In the example view the actual name of the department is presented, which makes it easier to understand the data and to create simple reports showing this data.
Bridge	BRDG views	Provide hierarchical structure of data for organizational structure (departments) and cost centers.

The diagram below shows an example of the fact 'Assigned activity'. A report can be created to present the 'duration' of assigned activities. In addition there is also a start time, end time and (activity)type available for each assigned activity. The duration of assigned activities can be reported per department, per cost center, per location, per date and per employee. These are the different dimensions.

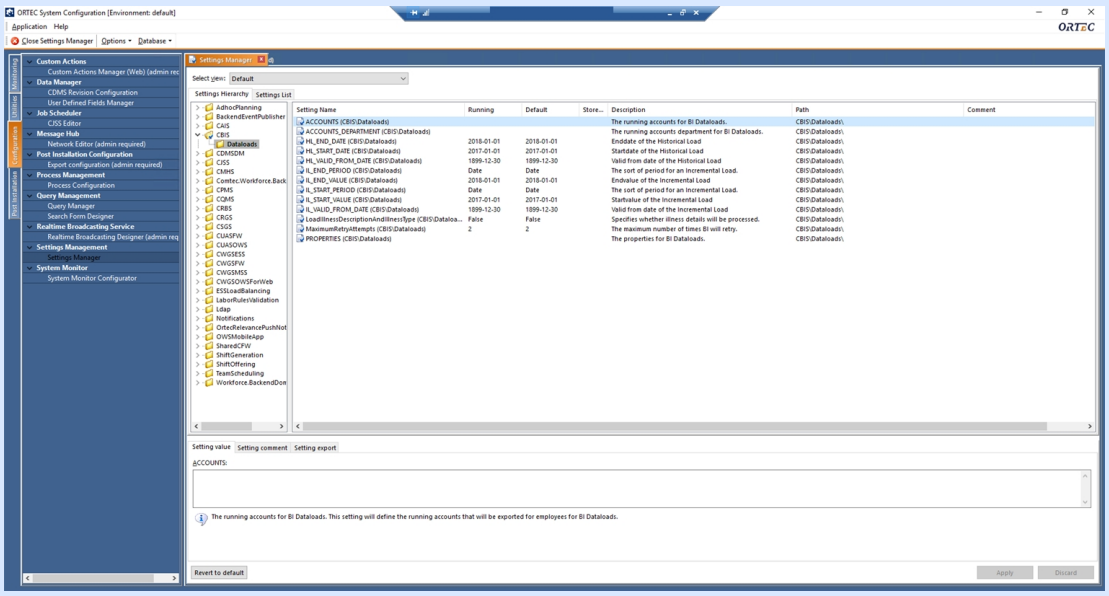


2.3 ORTEC System Configuration

BI Support settings can be configured in the **ORTEC System Configuration** application.

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Example



2.4 Updating data

Slowly changing dimensions

As an example we will take the employees dimension table. In this table you can find values such as employee number, contract number, birth date, gender and first name. Now, there are two types of attributes that distinguish columns, the so-called ‘Changing attribute’ and ‘Historical Attribute’. Whenever the values in columns with type ‘Changing attribute’ change, the values will be replaced in the database. Examples are the columns birth date, gender and first name. But if the values in columns with type ‘Historical Attribute’ change, a new record will be created in the database. The old value will be closed by entering an effective until date. Examples are employee number and contract number.

Historical load versus incremental load

The first time the ETL will be run, it will use the ‘Historical load’ to load data from older (already closed) years into the BI database (for example 2008 and 2009). The Historical load will only run once, as it is assumed that the data is not going to change anymore. Then, each night the ‘Incremental load’ will run (for example 2010). So every night this run will refresh the data for 2010. Refresh means in most cases removing and re-adding data, except in the tables using the slow changing dimensions.

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Required time to run the incremental load

The incremental load usually runs every night. The time required to run the incremental load, depends on many aspects such as:

- Number of employees in ORTEC Workforce Scheduling;
- Number of accounts and account entries that have to be calculated;
- Computing performance of ORTEC Workforce Scheduling server and ETL server.

Please take into account that a run will take a couple of hours. One part is computing time on the ORTEC Workforce Scheduling server and the other part is computing time on the ETL server.

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3 Views in Workforce Scheduling DataMart

Reports are based on the views in the **Workforce Scheduling DataMart**.

3.1 Views

In all views, activities that continue over the night will be split into two activities, one until midnight and one for the remaining part.

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View	Content
DIM_US_Account	Contains the accounts used
DIM_US_Account_ Category	Contains the account categories used
DIM_US_Activity_ Type	Contains the activity types used
DIM_US_Cost_ Center	Contains the cost centers used
DIM_US_Date	Contains the dates used (from 1900 until 2020)
DIM_US_ Department	Contains the departments used
DIM_US_Employee	Contains the employees used
DIM_US_Location	Contains the locations used
DIM_US_Position	Contains the positions used
DIM_US_Property	Contains the properties used
DIM_US_Time	Contains the times used
DIM_US_ Workstation	Contains the workstations used
FACT_US_Account_ Entry	Contains the account entries on various accounts
FACT_US_ Assigned_Activity	Contains the assigned activities (realized and future activities)
FACT_US_ Assigned_Shift	Contains the assigned shifts (realized and future shifts)
FACT_US_Budget_ Line	Contains the account entries of type "budget" (only manually entered budget entries; calculated budget entries will be of type "Calculated")
FACT_US_Cyclical_ Activity	Contains cyclical activities
FACT_US_Cyclical_ Shift	Contains cyclical shifts
FACT_US_ Demand_Activity	Contains the demand per activity
FACT_US_ Demand_Shift	Contains de demand per shifts
FACT_US_ Department_Entry	Contains account entries for departments (entries without employees and a total for all employee entries per department)
FACT_US_ Department_ Property	Contains the property values linked to departments
FACT_US_ Employee_ Availability	Contains the availability of the employee based on contract hours per department (a record per day)
FACT_US_ Employee_Property	Contains the property values linked to employees
FACT_US_ Employee_ Reassignment	Contains the reassignments per employee including time of reassignment (number of days before shift)
FACT_US_ Employee_Request	Contains requests of employees
FACT_US_ Employee_Sick_	Contains sick leave per employee (one record per day of sick leave)

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View	Content
Leave	
FACT_US_ Employee_Violation	Contains violations per employee
FACT_US_ Published_Activity	Contains the activities at the time the schedule was published
FACT_US_ Published_Shift	Contains the shifts at the time the schedule was published
FACT_US_ Schedule_Status	Contains status information of scheduling periods
FACT_US_Vacant_ Activitiy	Contains the activities still to be assigned
FACT_US_Vacant_ Shift	Contains the shifts still to be assigned
BRDG_Costcenter_ Hierarchy	Contains the hierarchical structure of cost centers
BRDG_Department_ Hierarchy	Contains the hierarchical structure of departments
BRDG_Location_ Hierarchy	Contains the hierarchical structure of locations
EX_US_Assigned_ Shift	Contains assigned shifts (realized and future shifts) with references to actual names of dimensions instead of dimension keys.
EX_US_Account_ Entry	Contains account entries with references to actual names of dimensions instead of dimension keys.

3.2 Data available in views

Here you'll find an overview of the data available in the views.

View BRDG_US_Cost_Center_Hierarchy

Column	Description
Parent_Cost_Center_Key	Datamart ID for parent cost center
Child_Cost_Center_Key	Datamart ID for child cost center
Levels_Between_Parent_And_Child	The number of levels between parent and child
Child_Name	Name of child
Lowest_Level_Flag	Indicates whether this cost center is on the lowest level
Highest_Level_Flag	Indicates whether this is the highest cost center
Effective_From_Date	The information in the row is valid as of this date
Effective_Until_Date	The information in the row is valid until this date
Active_Flag	Indicates whether the information in this row is valid/active

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View BRDG_US_Department_Hierarchy

Column	Description
Parent_Department_Key	Datamart ID for the parent department
Child_Department_Key	Datamart ID for the child department
Levels_Between_Parent_And_Child	The number of levels between parent and child
Child_Name	Name of child
Lowest_Level_Flag	Indicates whether this department is on the lowest level
Highest_Level_Flag	Indicates whether this is the highest department
Effective_From_Date	The information in the row is valid as of this date
Effective_Until_Date	The information in the row is valid until this date
Active_Flag	Indicates whether the information in this row is valid/active

View BRDG_US_Location_Hierarchy

Column	Description
Parent_Location_Key	Datamart ID for the parent location
Child_Location_Key	Datamart ID for the child location
Levels_Between_Parent_And_Child	The number of levels between parent and child
Child_Name	Name of child
Lowest_Level_Flag	Indicates whether this location is on the lowest level
Highest_Level_Flag	Indicates whether this is the highest location
Effective_From_Date	The information in the row is valid as of this date
Effective_Until_Date	The information in the row is valid until this date
Active_Flag	Indicates whether the information in this row is valid/active

View DIM_US_Account

Column	Description	SCD
Account_Key	Datamart Account ID	-
Name_Account	Accounts | Account management | Name	CA
Description	Accounts | Account management | Description	CA
Code_Account	Account code (not visible in Workforce Scheduling Client)	CA
Account_Type	Accounts | Accountmanagement | Type of entries | Type of entries Indicates whether the type of entry is Time, Payment or Amount.	CA
Export_Code	Export code of the account (not visible in Workforce Scheduling Client)	CA
Start_Date_Key	Datamart ID for start date Accounts | Account management | Valid from	CA
End_Date_Key	Datamart ID for end date Accounts | Account management | Valid until	CA

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View DIM_US_Account_Category

Column	Description	SCD
Account_Category_Key	Datamart ID for Account category	-
Account_Key	Datamart ID for Account	HA
Account_Name	Accounts | Account management | Name	HA
Name_Category	Accounts | Account management | Name of category	HA
Code_Category	Code of the category (not visible in Workforce Scheduling Client)	HA
Description	Accounts | Account management | Description of the category	CA
Import_Code	Accounts | Account management | Import code	HA
Export_Code	Accounts | Account management | Export code	HA
Start_Date_Key	Datamart ID for start date Accounts | Account management | Account categories | Valid from	
End_Date_Key	Datamart ID for end date Accounts | Account management | Account categories | Valid until	
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Activity_Type

Column	Description	SCD
Activity_Type_Key	Datamart ID for activity type	-
Name_ Activity_Type	Maintenance | Organization | Activity type | Name of Activity type	HA
Description	Maintenance | Organization | Activity type | Description of activity type	HA
Import_Code	Maintenance | Organization | Activity type | Import code	HA
Export_Code	Maintenance | Organization | Activity type | Export code	HA
Activity_Class	Maintenance | Organization | Activity type | Class	HA
Start_Date_Key	Datamart ID for start date Valid from (not visible in Workforce Scheduling Client)	
End _Date_Key	Datamart ID for end date Valid until (not visible in Workforce Scheduling Client)	
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Cost_Center

Column	Description	SCD
Cost_Center_Key	Datamart ID for cost center	-
Name_Cost_Center	Maintenance | Cost center | Name of cost center	HA
Description	Maintenance | Cost center | Description of cost center	HA
Code_Cost_Center	Code of cost center (not visible in Workforce Scheduling Client)	HA

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Column	Description	SCD
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Date

Column	Description
Date_Key	Datamart ID for date
Full_Date	Full date [Example 1929-01-15 00:00:00.000]
Day_Number_In_Month	Day number in month
Day_Number_In_Year	Day number in year
Week_Number	Week number
Month_Number	Month number
Month_Name	Month name
Year_Number	Year number
Quarter_Number	Quarter number
Date_Format_YYYYMMDD	Date in YYYYMMDD [Example 20090115]
Weekend_Flag	Indicates whether the date is in a weekend
Day_Of_Week_Name	Name of day of the week
Leap_year_Flag	Indicates whether the date is in a leap year
Day_Number_In_Week	Day number in the week
Full_Date_Caption	Full date abbreviated [Example: 1929-01-15]
Half_Year_Number	Half year number
Year_Quarter_Caption	Year number and quarter number [Example: 1929-Q1]
Year_Half_Year_Caption	Year number and half year number [Example: 1929-H1]
Year_Month_Caption	Year number and month number [Example 1929-01]
Salary_Period_Name	Name of salary period
Salary_Period_Description	Description of salary period
Holiday_Flag	Indicates whether the date is on a holiday
Holiday_Name	Name of the holiday
Holiday_Description	Description of the holiday
Workforce Scheduling_Active_Flag	Indicates whether the date is active in Workforce Scheduling

View DIM_US_Department

Column	Description	SCD
Department_Key	Datamart ID for department	-
Name_Department	Maintenance | Organization | Properties | Name	HA
Description	Maintenance | Organization | Properties | Description	HA
Abbreviation	Maintenance | Organization | Properties | Abbreviation	HA
Code_Department	Maintenance | Organization | Properties | Code	HA
Import_Code	Maintenance | Organization | Properties | Import code	HA
Export_Code	Maintenance | Organization | Properties | Export code	HA
Flexpool_Flag	Maintenance | Organization | Properties | FlexPool	HA
Cost_Center_Key	Datamart ID for cost center Maintenance | Organization | Properties | Cost	HA

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Column	Description	SCD
	Center	
Start_Date_Key	Maintenance | Organization | Properties | Valid from	
End_Date_Key	Maintenance | Organization | Properties | Valid until	
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Employee

Column	Description	SCD
Employee_Key	Datamart ID for employee	-
Name_Employee	Employee |Employee management | Employee data | Name	CA
Employee_Number	Employee |Employee management | Employee data | Employee number before /	HA
Contract_Number	Employee |Employee management | Employee data | Employee number after /	HA
Social_Secutity_Number	Employee |Employee management | Employee data | Social Security Number	CA
Date_Of_Birth_Key	Employee |Employee management | Employee data | Date of birth	CA
Gender	Employee |Employee management | Employee data | Gender	CA
First name	Employee |Employee management | Employee data | First name	CA
Initials	Employee |Employee management | Employee data | Initials	CA
Prefix	Employee |Employee management | Employee data | Prefix	CA
Display_Name	Name of employee in Workforce Scheduling (last name, initials, prefix)	
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Location

Column	Description	SCD
Location_Key	Datamart ID for locations	-
Name_Location	Maintenance | Locations and workstations | Locations | Name	HA
Remarks	Maintenance | Locations and workstations | Properties | Remarks	HA
Code	Maintenance | Locations and workstations | Properties | Code	HA
Contract_Number	Maintenance | Locations and workstations | Properties | Contract Number	HA
Customer_Name	Maintenance | Locations and workstations | Properties | Customer name	CA
Street	Maintenance | Locations and workstations | Properties | Street	HA
House_Number	Maintenance | Locations and workstations | Properties | House number	HA
House_Number_Extension	Maintenance | Locations and workstations | Properties | House number extension	HA
Zip_Code	Maintenance | Locations and workstations | Properties | Zip code	HA
City	Maintenance | Locations and workstations | Properties | City	HA

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Column	Description	SCD
State	Maintenance | Locations and workstations | Properties | State	HA
Country	Maintenance | Locations and workstations | Properties | Country	HA
Telephone_Number_1	Maintenance | Locations and workstations | Properties | Phone number	HA
Telephone_Number_2	Maintenance | Locations and workstations | Properties | Telephone 2	HA
Telephone_Number_3	Maintenance | Locations and workstations | Properties | Telephone 3	HA
E-Mail	Maintenance | Locations and workstations | Properties | E-mail	HA
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Positions

Column	Description	SCD
Position_Key	Datamart ID for position	-
Name_Position	Maintenance | Organization | Positions | Name	HA
Code	Maintenance | Organization | Positions | Code	HA
Description	Maintenance | Organization | Positions | Description	HA
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Property

Column	Description	SCD
Property_Key	Datamart Property ID	
Name_Property	Organisation | employee/department Properties | Property	HA
Shortname_Property	Organisation | employee/department Properties | Abbrevation	HA
Property_Class	Entity type the property refers to	HA
Linked_To	Entity type to which the property is linked	HA
Linked_To_Key	Datamart ID of entity type to which the property is linked	HA
Property_Type	Organisation | employee/department Properties | Type	HA
Default_Value	Organisation | employee/department Properties | Default value	HA
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View DIM_US_Time

Column	Description
Time_Key	Datamart ID for time
Full_Time	Full time [Example: 1900-01-01 19:29:00.000]
Hour24	Hour of time based on 24 hours [Example 19]
Hour12	Hour of time based on 12 hours [Example 7]
Time12	Time based on 12 hours [Example 07:29PM]
AM_PM	AM or PM

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Column	Description
Minutes	Minutes of hour
Part_Of_Day	Indicates whether time is during, morning, afternoon, evening or night
Hour_Interval	Indiactes the hour interval of time [Example 19:00-19:59]
Fifteen_Minute_Interval	Indicates the 15 minute interval of time [Example 19:15-19:29]

View DIM_US_Workstation

Column	Description	SCD
Workstation_Key	Datamart ID for workstation	-
Name_Workstation	Maintenance | Locations and workstations | Workstations | Name	HA
Description	Maintenance | Locations and workstations | Workstations | Description	HA
Code	Maintenance | Locations and workstations | Workstations | Code	HA
Start_Date_Key	Datamart ID for start date Valid from (not visible in Workforce Scheduling Client)	
End_Date_Key	Datamart ID for end date Valid until (not visible in Workforce Scheduling Client)	
Effective_From_Date	The information in the row is valid as of this date	
Effective_Until_Date	The information in the row is valid until this date	
Active_Flag	Indicates whether the information in this row is valid/active	

View EX_US_Account_Entry

Column	Description
Account_Name	Name of the account where the entry belongs to
Name_Category	Name of the account category where the entry belongs to
Name_Employee	Name of the employee where the entry belongs to
Employee_Number	Employee number of the employee where the entry belongs to
Full_Date	Date of account entry
Value	Value
Name_Department	Name of the department where the entry belongs to

View EX_US_Assigned_Shift

Column	Description
Name_ Employee	Name employee who is assigned to the shift
Startdate	Startdate of the shift
Enddate	Enddate of the shift
Starttime	Starttime of the shift
Endtime	Endtime of the shift
Department_ Shift	Original department of the shift (for subcontracted shifts, the department that subcontracted the shift to another department)
Name_Cost_ Center	Name cost center of the shift
Name_	Name position of the shift

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Column	Description
Position	
Name_Shift	Name of a shift
Duration	Duration of a shift in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Value	1 (used to count shifts)
Schedule_Status	Status of the schedule in which the shift is assigned.
Shift_Status	Status of the shift (plan, published, closed, approved, processed).
Employee_From_Other_Department_Flag	Indicates whether the assigned employee is borrowed from another department or flexpool.
Department_Employee	Name department of employee who is assigned to the shift.

View FACT_US_Account_Entry

Column	Description
Employee_Key	Datamart ID for employee
Date_Key	Datamart ID for date
Account_Category_Key	Datamart ID for account category
Department_Key	Datamart ID for department of the account entry
Employee_Department_Key	Datamart ID for department of the employee
Employee_From_Other_Department_	Indicates whether the employee is from another department

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Column	Description
Flag	(lended)
Shift_Name	Name of a shift (in case a shift is available for the entry)
Value	Value
Cost_Center_Key	Datamart ID for cost center

View FACT_US_Assigned_Activity

Column	Description
Employee_Key	Datamart ID for employee
Date_Key	Datamart ID for activity date
Start_Time_Key	Datamart ID for start time activity
End_Time_Key	Datamart ID for end time activity
Cost_Center_Key	Datamart ID for cost center
Department_Key	Datamart ID for department of the activity
Loaction_Key	Datamart ID for location
Workstation_Key	Datamart ID for workstation
Position_Key	Datamart ID for position
Activity_Type_Key	Datamart ID for activity type
Duration	Properties of a shift | Duration of an activity in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is

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Column	Description
	expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Schedule_Status	Status of the schedule in which the activity is assigned.
Shift_Status	Status of the shift where the activity is part of (plan, published, closed, approved, processed).
Employee_From_Other_Department_Flag	Indicates whether the assigned employee is borrowed from another department or flexpool.
Employee_Department_Key	Datamart ID for department of the employee assigned to work the activity.

View FACT_US_Assigned_Shift

Column	Description
Employee_Key	Datamart ID for employee
Start_Date_Key	Datamart ID for start date of a shift
End_Date_Key	Datamart ID for end date of a shift
Start_Time_Key	Datamart ID for start time of a shift
End_Time_Key	Datamart ID for end time of a shift
Department_Key	Datamart ID for department of the shift
Cost_Center_Key	Datamart ID for cost center
Position_Key	Datamart ID for position
Name_Shift	Name of a shift
Duration	Duration of a shift in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_	Time during which an employee is present at a workstation (not visible in Workforce

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Column	Description
Time	Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Value	1 (used to count shifts)
Schedule_Status	Status of the schedule in which the shift is assigned.
Shift_Status	Status of the shift (plan, published, closed, approved, processed).
Employee_From_Other_Department_Flag	Indicates whether the assigned employee is borrowed from another department or flexpool.
Employee_Department_Key	Datamart ID for department of the employee assigned to work the shift.

View FACT_US_Budget_Line

Column	Description
Date_Key	Datamart ID for date
Account_Category_Key	Datamart ID for account category
Department_Key	Datamart ID for department of the account entry
Value	Value
Cost_Center_Key	Datamart ID for cost center

View FACT_US_Cyclical_Activity

Column	Description
Employee_Key	Datamart ID for employee
Date_Key	Datamart ID for date
Start_Time_Key	Datamart ID for start time of activity
End_Time_Key	Datamart ID for end time of activity
Cost_Center_Key	Datamart ID for cost center
Department_Key	Datamart ID for department
Location_Key	Datamart ID for location
Workstation_Key	Datamart ID for workstation

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Column	Description
Position_Key	Datamart ID for position
Activity_ Type_Key	Datamart ID for activity type
Duration	Properties of a shift | Duration of an activity in minutes
Working_ Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_ Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_ Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_ Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_ Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_ Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.

View FACT_US_Cyclical_Shift

Column	Description
Employee_ Key	Datamart ID for employee
Start_Date_ Key	Datamart ID for start date of a shift
End_Date_ Key	Datamart ID for end date of a shift
Start_Time_ Key	Datamart ID for start time of a shift
End_Time_ Key	Datamart ID for end time of a shift
Department_ Key	Datamart ID for department
Cost_Center_ Key	Datamart ID for cost center
Position_Key	Datamart ID for position

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Column	Description
Name_Shift	Name of a shift
Duration	Duration of a shift in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Value	1 (used to count shifts)

View FACT_US_Demand_Activity

Column	Description
Date_Key	Datamart ID for start date of activity
Start_Time_Key	Datamart ID for start time of activity
End_Time_Key	Datamart ID for end time of activity
Cost_Center_Key	Datamart ID for cost center
Department_Key	Datamart ID for department
Location_Key	Datamart ID for location
Workstation_Key	Datamart ID for workstation
Position_Key	Datamart ID for position
Activity_Type_Key	Datamart ID for activity type

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Column	Description
Duration	Properties of a shift | Duration of an activity in minutes
Working_ Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_ Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_ Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_ Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_ Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_ Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Number	Number of required employees.

View FACT_US_Demand_Shift

Column	Description
Start_Date_ Key	Datamart ID for start date of a shift
End_Date_ Key	Datamart ID for end date of a shift
Start_Time_ Key	Datamart ID for start time of a shift
End_Time_ Key	Datamart ID for end time of a shift
Department_ Key	Datamart ID for department
Cost_Center_ Key	Datamart ID for cost center
Position_Key	Datamart ID for position
Name_Shift	Name of shift
Value	Number of required shifts (used to count shifts)
Duration	Duration of a shift in minutes
Working_	Indicates the working hours applicable for the employees' contract. Usually these are

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Column	Description
Hours	the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Minimum_Value	Minimum number of required shifts
Maximum_Value	Maximum number of required shifts

View FACT_US_Department_Entry

Column	Description
Date_Key	Datamart ID for date
Account_Category_Key	Datamart ID for account category
Department_Key	Datamart ID for department of the account entry
Department_Level_Flag	Indicates whether the entry is a department entry (without employee) or a total value for all employee values for this department.
Value	Value
Cost_Center_Key	Datamart ID for cost center

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View FACT_US_Department_Property

Column	Description
Property_Key	Datamart ID for property
Date_Key	Datamart ID for date
Value	Property value (only non-default values are stored)
Department_Key	Datamart ID for department

View FACT_US_Employee_Availabilty

Column	Description
Employee_Key	Datamart ID for employee
Date_Key	Datamart ID for date
Department_Key	Datamart ID for department
Working_Hours_Per_Week	Employee | Employee management | Roster data | Weekly hours
Working_Hours_Per_Day	Weekly hours divided by 7. Number of hours an employee has to work, assuming 7 working days per week. (Example: Assuming you have to work 35 hours a week, than 'Working_Hours_Per_Day' equals 35/7=5)
Working_Hours_Per_Weekday	Weekly hours divided by 5. Number of hours an employee has to work, assuming 5 working days per week. (Example: Assuming you have to work 35 hours a week, than 'Working_Hours_Per_Weekday' equals 35/5=7)

View FACT_US_Employee_Property

Column	Description
Property_Key	Datamart ID for property
Date_Key	Datamart ID for date
Value	Property value (only non-default values are stored)
Employee_Key	Datamart ID for employee

View FACT_US_Employee_Reassignment

Column	Description
Employee_Key	Datamart ID for employee
Department_Key	Datamart ID for department
Date_Key	Datamart ID for date
Change_Date_Key	Datamart ID for date of change
Requested_Flag	Indicates whether the change is requested.
Days_Before_Shift	Indicates the number of days between the date of the actual change and the start of the shift.
Value	1 (used to count reassignments)

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View FACT_US_Employee_Request

Column	Description
Employee_Key	Datamart ID for employment
Date_Key	Datamart ID for date
Request_Name	Employee | Requests | Request name
Request_Type	Request type
Required_Flag	Indicates whether the request is required or not. Employee | Requests | Option Required
Approved_Flag	Indicates whether the request is approved or not
Value	1 (used to count requests)

View FACT_US_Employee_Sick_Leave

Column	Description
Employee_Key	Datamart ID for employee
Date_Key	Datamart ID for date A separate record is created for every day that the employee is sick.
Sick_Leave_ Start_Time_Key	Datamart ID for the start time Only relevant on the start date of illness.
Sick_Leave_End_Time_ Key	Datamart ID voor de eind tijd Only relevant on the end date of illness.
Percentage_Work_Therapy	Percentage work therapy
Percentage_Limited_Work	Percentage limited work
Value	1 (used to count sick days)

View FACT_US_Employee_Violation

Column	Description
Employee_Key	Datamart ID for employee
Date_Key	Datamart ID for date
Department_Key	Datamart ID for department
Violation_Type	Maintenance | Employment conditions | Violation types | Name violation type
Rule_Name	Maintenance | Employment conditions | Rule | Name of violation rule
Value	1 ((used to count violations)

View FACT_US_Published_Activity

Column	Description
Employee_ Key	Datamart ID for employee
Date_Key	Datamart ID for date
Start_Time_ Key	Datamart ID for start time of activity
End_Time_ Key	Datamart ID for end time of activity

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Column	Description
Cost_Center_Key	Datamart ID for cost center
Department_Key	Datamart ID for department
Location_Key	Datamart ID for location
Workstation_Key	Datamart ID for workstation
Position_Key	Datamart ID for position
Activity_Type_Key	Datamart ID for activity type
Duration	Properties of a shift | Duration of an activity in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Schedule_Status	Status of the schedule in which the activity is assigned.

View FACT_US_Published_Shift

Column	Description
Employee_Key	Datamart ID for employee
Start_Date_Key	Datamart ID for start date of a shift
End_Date_Key	Datamart ID for end date of a shift

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Column	Description
Start_Time_Key	Datamart ID for start time of a shift
End_Time_Key	Datamart ID for end time of a shift
Department_Key	Datamart ID for department
Cost_Center_Key	Datamart ID for cost center
Position_Key	Datamart ID for position
Name_Shift	Name of a shift
Duration	Duration of a shift in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Value	1 (used to count shifts)
Schedule_Status	Status of the schedule in which the shift is assigned.

View FACT_US_Schedule_Status

Column	Description
Department_Key	Datamart ID for department
Date_Key	Datamart ID for date
Published_Until_Date_Key	Datamart ID for the until date upon which the schedules have the status published
Closed_Until_Date_Key	Datamart ID for the until date upon which the schedules have the status

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Column	Description
	closed
Approved_Until_Date_Key	Datamart ID for the until date upon which the schedules have the status approved
Processed_Until_Date_Key	Datamart ID for the until date upon which the schedules have the status processed

View FACT_US_Vacant_Activity

Column	Description
Date_Key	Datamart ID for date of activity
Start_Time_Key	Datamart ID for start time of activity
End_Time_Key	Datamart ID end time of activity
Cost_Center_Key	Datamart ID for cost center
Department_Key	Datamart ID for department
Loaction_Key	Datamart ID for location
Workstation_Key	Datamart ID for workstation
Position_Key	Datamart ID for position
Activity_Type_Key	Datamart ID for activity type
Duration	Properties of a shift | Duration of an activity in minutes
Working_Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.

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Column	Description
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Standby_ Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Schedule_ Status	Status of the schedule in which the activity is assigned.

View FACT_US_Vacant_Shift

Column	Description
Start_Date_ Key	Datamart ID for start date of a shift
End_Date_ Key	Datamart ID for end date of a shift
Start_Time_ Key	Datamart ID for start time of a shift
End_Time_ Key	Datamart ID for end time of a shift
Department_ Key	Datamart ID for department
Cost_Center_ Key	Datamart ID for cost center
Position_Key	Datamart ID for position
Name_Shift	Name of a shift
Duration	Duration of a shift in minutes
Working_ Hours	Indicates the working hours applicable for the employees' contract. Usually these are the hours paid. Example: hours worked, paid leave and paid breaks. The time is expressed in minutes.
Labor_Time	Time that counts as working time according to the labor rules. This time includes for instance sick leave. Breaks, paid or unpaid, are not included. The time is expressed in minutes.
Rest_Labor_ Law	Time that counts as rest time according to the labor rules. Leave (paid and unpaid) is also regarded as rest (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Rest_Time	Rest is the time during which an employee is not carrying out any work and is not present or available. Breaks don't count because an employee is actually present (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Time_At_ Work	Time during which an employee is present at work (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Workstation_ Time	Time during which an employee is present at a workstation (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Sick_Leave_ Time	Time regarded as sick time (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Overtime	Time regarded as overtime (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Leave_Time	Time regarded as leave (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Break_Time	Time regarded as break (not visible in Workforce Scheduling Client). The time is expressed in minutes.

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Column	Description
Standby_ Time	Time regarded as available (not visible in Workforce Scheduling Client). The time is expressed in minutes.
Value	1 (used to count shifts)
Schedule_ Status	Status of the schedule in which the shift is assigned.

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Contact information

For further information contact ORTEC, either through your existing ORTEC representative or by using the appropriate contact details listed on www.ortec.com

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