How to Use Maintenance Indicators in Fracttal One

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In Fracttal One 5.0 there are 4 types of fundamental indicators in all maintenance management:

- **Maintenance availability:** The probability that a system, equipment or component will perform its intended function when required. It is expressed as a percentage and takes into account both the reliability and maintainability of the system.
- Availability due to failures: This is understood as the percentage of time during which a piece of equipment is fit for use and operational, but taking into account only the sum of the time due to unplanned shutdowns, failures and incidents of the equipment and physical assets.
- Mean Time Between Failures MTBF (Mean Time Between Failures): It is a measure of the average time between consecutive failures of a repairable system or component and as its name says, it is calculated from the time a failure occurs until the time after the other one occurs, so it includes the uptime and downtime periods.
- Mean Time To Repair MTTR (Mean Time To Repair): Indicates the average time required to repair a system after a failure. A low MTTR is desirable, as it implies fast recovery and less downtime.

How do we place them in Fracttal One?

1. Click on main menu



2. click on the business intelligence module



3.click on Indicators



Here you will see the KPI interface



What can the user interact there?

Calculated KPIs : In this space, users have the possibility to choose the date ranges to consult their KPIs. The highlight is the option to save these ranges for future queries, providing an even more efficient experience.

Step by Step: Configuring Calculated KPIs

1. Click on "Calculated KPIs".

Business Intelligence Indicators		Old Version 🕤 🦪 🔗 👎 🗸
Global Average \Xi Indicators per asset 🛈		
Selected Kpi test1		
S Number of assets	Calculation date 2024-08-14	
Availability for maintenance	Availability by Failures (Reliability)	MTBF (Mean Time Between Failure) 5 8 3 2 0 0 Hours MTTR (Mean Time to Repair) 2 2 4 4 Hours Minutes
		•

2. Then click on the "+" button.



3. In the description, enter the name you want to use to identify your analysis. Then, select the date range you are interested in and complete the other fields to properly centralize your information, such as location, asset type, code, description, cost center, and forms.

Business Intelligence Indicators			← Add KPI
			- Description
Selected Kpi test1	×		- Start date
Number of assets		Calculation date 2024-08-14	- End Date
Availability for maintenance	Availability by Failures (Reliability)	- Location
99.9971%	99.98	344%	Asset Type
			- Priority ~ ~ ~
			Group 1 Cancel ② Calculate

4. Click on "Calculate".

Business Intelligence		← Add KPI
		Description RKP
Selected Kpi test1	·	Start date
Sumber of assets	Calculation date 2024-08-14	End Date 2024-08-14 13:15
Availability for maintenance	Availability by Failures (Reliability)	~ Location ~
99.9971%	99.9844%	Asset Type
		Priority
		Type Group 1
		Cancel Calculate

5. To select the analysis based on the assigned dates and data, click on the star next to the name until it turns blue, as shown in the image.

Business Intelligence			← Calculated	d KPIs	Ŧ
Global Average S Indicators per asset 1					
Selected Kpl INDICADORES FERMOS Selected Kpl INDICADORES FERMOS	•	Calculation date 2024-08-06	INDICADORES Status: Date range: Number of Ass Filters:	FERMOS Performed 2024-07-01 07:00:00 - 2024-08-06 20:01:16 1114 Yes	*
Availability for maintenance	Availability by Failures (Reliability		KPI JULIO Status: Date range: Number of Ass Filters:	Performed 2024-06-30 23:00:00 - 2024-07-31 22:59:00 4550 Yes	☆
99.9903%	99.89	960%	RFP Status: Date range: Number of Ass Filters:	Performed 2024-08-13 15:24:59 - 2024-08-13 15:24:59 49 Yes	☆
			test1 Status: Date range: Number of Ass Filters:	Performed 2024-01-01 10:00:00 - 2024-08-31 11:00:00 3 Yes	
			Showing 4 of 4	(+

6. Once the information is loaded, you will be presented with the behavior of the indicators within the specified date range.

Business Intelligence Indicators		Old Version 🕤 👩 🔗 👎 🗸
(i) Global Average		
Selected Kpi test1	~	
Sumber of assets	Calculation date 2024-08-14	
Availability for maintenance	Availability by Failures (Reliability)	MTBF (Mean Time Between Failure) 5 8 3 2 : 0 0 Hours MTTR (Mean Time to Repair) 2 : 4 4 Hours Minutes
		+

Global average: Commonly refers to the average calculation performed on the assets, taking into account that Fracttal One 5.0 contemplates an average of a certain number of assets to extract the variables or data available.s.

Advanced Information: In this section, we provide our users with a detailed explanation per asset, where the following aspects are evaluated

Business Indicat	s Intelligence tors								FE ~
G Global	Average	ced Information i					From - Until 2024-01-27	/ 2024-02-27	=
		1	2	3	4	5	6	Showing 50 of 6	171 8 :
	ltem	Availability for mainte	Availability by Fail	MTBF	MTTR	Failures Qu	Total Hours	Downtime	Downtime
	HORNO	100,000 %	100,000 %			0	768,00	0,00	0,00
	Chave de fenda {	100,000 %	100,000 %			0	768,00	0,00	0,00
	Cincel Ryobi 202	100,000 %	100,000 %			0	768,00	0,00	0,00
	Cinta métrica Sn	100,000 %	100,000 %			0	768,00	0,00	0,00
	COMPARADOR D	100,000 %	100,000 %			0	768,00	0,00	0,00
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	MEDIDOR DE EN	100,000 %	100,000 %			0	768,00	0,00	0,00

- 1. **Maintenance availability:** Maintenance availability refers to the time during which an asset is operational and available for use, excluding time spent on planned maintenance activities. In other words, it represents the fraction of time during which the asset is operational and not scheduled for maintenance. Ia que el activo está en funcionamiento y no está programado para mantenimiento.
- 2. **Availability due to failure (reliability):** Availability per failure, also known as reliability, indicates the ability of an asset to operate without interruption due to failures. It represents the percentage of time the asset is operational without experiencing problems or breakdowns.
- 3. **MTBF (Mean Time Between Failures):** MTBF is the abbreviation of Mean Time Between Failures. It is a measure of reliability that represents the average time between failures of an asset, indicating the expected reliability.
- 4. **MTTR (Mean Time To Repair):** MTTR is the abbreviation for Mean Time To Repair. It represents the average time required to repair an asset after it has experienced a failure.
- 5. **Number of failures:**Refers to the total number of failures with downtime that an asset has experienced during a specific period.
- 6. **Total hours:** This information serves as a basis for evaluating the performance of assets over a specific period.
- 7. **Total hours due to breakdowns:** Indicates the total number of hours in which assets are out of service due to breakdowns and corrective interventions.

8. **Maintenance downtime hours:** Indicates the total number of hours in which assets are out of service due to planned maintenance activities.

Note: These indicators are evaluated under the date range selected at the top right of the interface.

	isiness Int dicator:	telligence S								FE ~
G GI	lobal Av	verage Ş <u>≕</u> Advanc	ed Information (i)					- From - Until 2024-01-27	/ 2024-02-27	
									Showing 50 of 6	171 🛈 🚦
		Item	Availability for mainte	Availability by Fail	MTBF	MTTR	Failures Qu	Total Hours	Downtime	Downtime
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By clicking on each asset, users can access the specific formulas we have implemented to calculate the final results. This ensures that each formula is adjusted and customized according to the selected asset.

Business Intelligence Indicators per asset		← Formula
(i) Global Average		Availability for maintenance $Availability = rac{THP - \sum SHM}{THP} imes 100$
Item	Availability for maintenance	Abbreviations THP: Total hours in period ΣSHM: Summation Downtime hours for maintenance
GT2001 } LOCOMOTORA GT38	100,000 %	Availability For Breakdowns
		$\begin{aligned} AvailabilitybyFailures(Reliability) = \\ \frac{THP - \sum SHB}{THP} \times 100 \end{aligned}$ $\begin{aligned} \text{Abbreviations} \\ \text{THP: Total hours in period} \\ \text{SSHB: Summation Downtime hours by breakdowns} \end{aligned}$ $\begin{aligned} \text{Meantime Between Failure} \\ MTBF = \frac{(THP - SHB)}{FP} \\ \text{Abbreviations} \\ \text{THP: Total hours in period} \\ \text{SHB: Downtime hours by breakdowns} \\ \text{FP: N° Faults in the Period} \end{aligned}$
Showing 1 of 1		Meantime to Repair $MTTR = rac{SHB}{FP}$

We also provide an icon that redirects promptly to detailed information on each asset.

≡	Business I Indicato	Intelligence DTS							÷ 🗶	FE ~
	Global /	Average 📜 Advanc	ced Information i					From - Until 2024-01-27	/ 2024-02-27	÷
									Showing 50 of 61	171 💍 :
		ltem	Availability for mainte	Availability by Fail	MTBF	MTTR	Failures Qu	Total Hours	Downtime	Downtime
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	0	Chave de fenda {	100,000 %	100,000 %			0	768,00	0,00	0,00
	0	Cincel Ryobi 202	100,000 %	100,000 %			0	768,00	0,00	0,00
	0	Cinta métrica Sn	100,000 %	100,000 %			0	768,00	0,00	0,00
	0	COMPARADOR D	100,000 %	100,000 %			0	768,00	0,00	0,00
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You can specifically filter by location, location, asset type, code, cost center or custom form.

siness Int dicator:	elligence S					← FILTER		
obal Av	verage 🚰 Advan	ced Information i				ASSET	SE WORK MANAGEMENT	UNDERS CONTRACT
						Location		~
	Item	Availability for mainte	Availability by Fail	MTBF	MTTR	Asset Type		
0	HORNO	100,000 %	100,000 %					•
0	Chave de fenda {	100,000 %	100,000 %			Code		
0	Cincel Ryobi 202	100,000 %	100,000 %			Description		
0	Cinta métrica Sn	100,000 %	100,000 %					
0	COMPARADOR D	100,000 %	100,000 %			Cost center		~
0	Compresor Hurac	100,000 %	100,000 %			Custom Forms		
0	CONTADOR DE P	100,000 %	100,000 %					~
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0	ні	100,000 %	100,000 %					
0	AB	100,000 %	100,000 %					
0	OFICINA 2	100,000 %	100,000 %					
0	MEDIDOR DE EN	100,000 %	100,000 %			Clear Filters		😑 Apply Filters

General formula display icon: Here we provide our users with a detailed explanation of the various formulas we use to obtain the final results in a general way.

	siness Inte dicators	elligence S							÷ 🗶 🛙	FE ~
GI GI	lobal Av	rerage 🗦 Advanc	ed Information					From - Until 2024-01-27	/ 2024-02-27	
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		Item	Availability for mainte	Availability by Fail	MTBF	MTTR	Failures Qu	Total Hours	Downtime	Downtime
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	0	Cincel Ryobi 202	100,000 %	100,000 %			0	768,00	0,00	0,00
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Business Intelligence Indicators per asset		- Formula
Global Average JE Indicators per asset ()		Availability for maintenance $Availability = rac{THP - \sum SHM}{THP - \sum SHM} imes 100$
ltem	Availability for maintenance	THP Abbreviations THP: Total hours in period ΣSHM: Summation Downtime hours for maintenance
GT2001 } LOCOMOTORA GT38	100,000 %	Availability For Breakdowns
		$\begin{aligned} AvailabilitybyFailures(Reliability) = \\ \frac{THP - \sum SHB}{THP} \times 100 \end{aligned}$ $\begin{aligned} \textbf{Abbreviations} \\ \textbf{THP: Total hours in period} \\ \textbf{\SigmaSHB: Summation Downtime hours by breakdowns} \end{aligned}$ $\begin{aligned} \textbf{Meantime Between Failure} \\ MTBF = \frac{(THP - SHB)}{FP} \\ \textbf{Abbreviations} \\ \textbf{THP: Total hours in period} \\ \textbf{SHB: Downtime hours by breakdowns} \\ \textbf{FP: N^o Faults in the Period} \end{aligned}$
Showing 1 of 1		Meantime To Repair $MTTR = rac{SHB}{FP}$

Let us understand the formulas in detail:

1.What are the total hours in the period (HTP):

It corresponds to the total hours evaluated in the period of time (this data comes out of the filter by date range) in which the indicator is being evaluated (Image A) by the number of hours of average daily use of the assets evaluated (Image B).

Where do we find the above in Fracttal One?

Time period evaluated (Image A)

Business I Indicato	ntelligence ITS								FE ~
Global A	Average 🗧 Advan	ced Information (i)					From - Until 2024-01-27	/ 2024-02-27	÷
								Showing 50 of 6	171 💍 :
	Item	Availability for mainte	Availability by Fail	MTBF	MTTR	Failures Qu	Total Hours	Downtime	Downtime
□ ◎	HORNO	100,000 %	100,000 %			0	768,00	0,00	0,00
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Number of hours of average daily use of the asset (Image B)

Equipment					· · · · · · · · · · · · · · · · · · ·
← Aire 3					b Save
Out of Service: No Enabled	Pabricante Fracttal	Is part of	ncial Colombia 2023	3/ Fracttal/ Fracttal Colorr Especificación Fracttal 3 POTENCIA	bia/ Fracttal Medellin/ Edfi 1/ Ofic 🛞 🗸
Information You have pending changes to save!	TIPO DE CONTRATO		- Barcode		Priority Very High -
Details	Туре		Group 1		Group 2
General	AC	× ×	Chiller	⊗ ~	×
🚍 Custom Form	Supplier			~	Purchase date
	Hours of average daily use			□ Visible to all	
Financial	24:00				
88 Third Parties	Planned Maintenance				
🔀 Spare Parts and Supplies					~

Recommendations:

It is essential to avoid setting the "Average Daily Hours of Use" field to zero, as this setting could have a direct impact on the Total Hours in Period (TTH) and, consequently, on the KPIs. Maintaining a non-zero value in this field is essential to ensure the integrity of the calculations and the accuracy of the associated indicators.

2.What is the sum of maintenance downtime hours (HPM)?

Corresponds to the actual downtime of the asset that is recorded in the Planned TOs.

Where do we find the above in Fracttal One?

To find the above information in Fracttal One, first go to the main menu and select the "Tasks" module and then "Work Orders" as shown below:



Then, filter by selecting the "Tasks" option and in the planning type box choose "Planned tasks", as shown in the following image:

Work Management View Kanban	← FILTER						
🛄 🛱 🖹 🕕 🛛 Planned Tasks : No 🖉	Out of Service: Yes 🛞	Z Equipment downtime?	ASSET		wos		
Pending Tasks 0 💍	WOs in Process OS-554-SC 1 Asset 1 Task (1) 1	156 💍	Only view pending tasks Description Planned Tasks 2				
	MOTOR ELECTRICO O 00:10 D 2024-02-25 A Adrian Vargas	0x 	ALL Task with out of servi	NO			
	OS-536-SC 1 Asset 1 Task		ALL Completed ALL	YES	NO		
No data to show with these parameters	() 1 ⊗ AGREGADO 1 () 00:00 ⊕ 2024-01-11	= 1	Equipment downtime	? YES	NO		
	Adrian variges 0S-504-SC 1 Asset 1 Task ① 1 © FERMOS México { FERMOS } Q 00:10 ⊇ 2023-12-07	= 1	Resource Type Spare Parts		😑 Apply Filters		

Each task that we observe after applying the filter will contain a specific field, as shown in the image:

← Work Order	← Compre	SSOR CASA GRA	NADO	
Adrian Vargas ~ () 01:00:00 () 2024-02-26	С тазк	SUB TASKS	RESOURCES	ATTACHMENTS
Outcode and Address Note Note Work Management Ompressor Casa Granado μ Preventiva - Comrpessor Task type: Preventitive Group 1: Group 2: Work Request Numb Actual Schedule Date: 2024-02-26 Estimated Duration: Oropiered	General Preventiva - Co Task type: Actual Schedule Priority: Group 1: Group 1: Group 2: Time Estimated Dur Start Date: End Date: Actual Duratio Estimated ass 01:30 Trigger Date Every 1 M	mrpessor Date: 2024- Mediu ation: et downtime: et Downtime londay	ntitive 02-26 Jm 01:00:00 2024-02-21 12:22 2024-02-21 12:23 00:00:34 01:30:00	:59 :32
	(Start		Log

It is in this field where the downtime of the asset during each maintenance must be completed. This responsibility falls directly on the technician in charge of executing the planned task, and in turn, on the planner or supervisor, who must ensure that the information is properly recorded.

3.What is the Sum of downtime hours due to breakdown?

Corresponds to the out-of-service time recorded in the Unplanned tasks.

Where do we find the above in Fracttal One?

To find the above information in Fracttal One, first go to the main menu and select the "Tasks" module and then "Work Orders" as shown below:



Then, make a filter by selecting the "Tasks" option and in the planning type box choose "NO" in "Planned tasks", and choose the "YES" option in ""Task with out of order" as shown in the following image:

Work Management View Kanban	← FILTER			
🔟 🛱 🗄 🕕 🗹 Planned Tasks : Yes 🗧	🖉 Out of Service: No ⊗ 🛛 🗹 Equipment downtime?	ASSET	SE WORK MANAGEMENT	wos
Pending Tasks 49 🖔	WOs in Process 21 🖒	Only view pending	tasks	
A HIGH PRIORITY	OS-333-SC 1 Asset 1 Task	Description		
MANTENIMIENTO TRIMESTRAL	© Compressor Casa Granado	¿Planned Tasks ?	YES	NO
© 02:00 © DATE EVERY 3 MONTHS		Task with out of service	e YES	NO
	0T-99-PL	Completed		
Task MANTENIMIENTO TRIMESTRAL	1 Asset 1 Task ② 1 = 1	ALL	YES	NO
SAIRE ACONDICIONADO MINISPLIT	33 % © 06:05	ALL	YES	NO
2024-05-28 09:34	John Smith :	Work Request Number		
C HIGH PRIORITY Task MANTENIMIENTO TRIMESTRAL	OT-38-PL 1 Asset 1 Task 1 1 Task 1 2 S Preak principal Eafit Idiomas Emerson { 1214}	Resource Type Spare Parts		
© 02:00 © DATE EVERY 3 MONTHS	00:10 🛱 2024-01-29	Remove filters		😑 Apply Filters

Each task we identify after applying the filter will display specific fields, as shown in the image. It is essential to complete all these fields and, above all, to check the 'Failed active?' box.

- Work Order	← Portão	do prédio { Por	-PRD500-001 } 9		
Abelardo 123 ~ () 00:10:00 (=) 2023-12-08	О тазк	SUB TASKS	RESOURCES	ATTA	CHMENTS
	Failures Inform	nation set failed? UITO		\otimes	~
Work Management	Cable roto	lethod		\otimes	~
Portão do Prédio (POR-PRD500-001) 9999 Nexis // Alphaville/ Prédio 500/ Curto circuito portão	ALARMA Fault Severity			\otimes	• •
Task type: Corrective. Group 1:	Type of damage None	on of other assets? —			•
Completed RESOURCES 0 ATTACHMENTS 0	The task w Since when 2023-12-07 1	vas part of the ass 0:40	set's out of service		
		Start		og	

If the equipment is out of service, it is necessary to check the box 'Active Out of Service' and then record the date and time when the equipment started to be out of service, as illustrated in the image.

← Work Order	← FERMOS MÉXICO { FERMOS }	
Adrian Vargas ~ O 00:10:00 🗇 2023-12:07	G ⅔ 𝔅 TASK SUB TASKS RESOURCES	ATTACHMENTS
© 00:00:00 Note	Failures Information Has the asset failed? Fault Type	
Work Management	Failures Causes CABLE ROTO DE VENTILADOR	× ×
© FERMOS México { FERMOS }	Fault Detection Method Analise Visual	⊗ ~
cambio de fusiblesTask type:CORRECTIVOGroup 1:Group 2:Work Request NumbS25Actual Schedule Date:2023-12-07Estimated Duration:00:10:00	Fault Severity Medium Type of damage None It caused disruption of other assets?	•
RESOURCES 0 ATTACHMENTS 0	Asset out of service	
	Start	Log

These fields must be completed for each corrective maintenance. This responsibility falls directly on the technician in charge of executing the corrective task, and in turn, on the planner or supervisor, who must ensure that the information is properly recorded.

On the other hand, you should check in the configuration module, option Modules, specifically in the Work Orders section, that the option that indicates 'Set the out of service end date of the files with the task end date' is activated and appears in green, as shown in the image.

Settings		· · · · · · · · · · · · · · · · · · ·	
FRACTTAL - Activación		Save	
Details	Type © Work Orders	•	
Guerral	OPTIONS AND PERMISSIONS WORK ORDE	ER ID PRINTS	
Business Calendar	Description Allow adding attachments in finished WO's		
š⊞ Modules	Allow end / cancel WOs with pending material requisitions	i	
(§) Financial	Set the end date of out of service of the assets with the da	ite of completion of the task (by default is the end date of the WO).	
Auxiliary Catalogs Document Management	Allow assigned human resources to be responsible for the	work order (Multi-responsible)	
Transactions Log	Allow technical profile users to visualize costs WO's		
G Security	Allow to qualify the WO even though it is under review		
Connections	Filter human resources according to the selected profile (V	Within a task)	
Guest Portal	Automatically generate link to share all WO		
O Account			

Note: For the MTBF and MTTR indicators, only failures with asset downtime are counted.