

# SKF Enlight ProCollect System

Ing. Lucio Corcuera C.  
**MH Product Development**



# SKF Enlight ProCollect System

Sistema de colección de uso portable para optimizar el estado de su máquina.

- Sensor de vibración y temperatura con conectividad bluetooth.
- Compatible con dispositivos inteligentes.
- Conexión a la nube global SKF, servicio SKF y Centro de Conocimientos SKF.
- Conectividad con @ptitude Analyst software.
- Capacidades de funcionamiento “Stand alone”.



SKF QuickCollect app



SKF Quick Collect Sensor



SKF ProCollect app

# SKF Enlight ProCollect System



# SKF Enlight ProCollect

## CMDT 390-K-SL

- **Kit Quick Collect Sensor** con Firmware actualizado con mayores capacidades utilizando la app **ProCollect**.



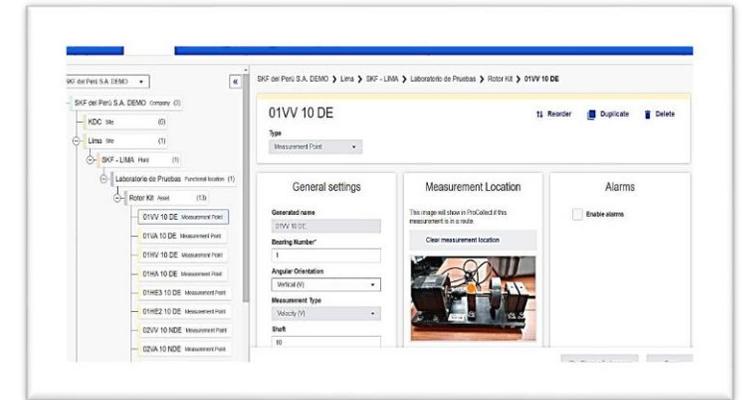
## CMDT 391-PRO-K-SL

- **Kit Quick Collect Sensor Mejorado** con capacidades adicionales para conectarse a acelerómetros adicionales.
- **El Kit incluye:**
  - ✓ CMDT 391 sensor
  - ✓ CMAC 8010 cable de extensión
  - ✓ CMSS 2100 acelerómetro
  - ✓ CMAC 3715 adaptador BNC
  - ✓ CMAC 109 base magnética
  - ✓ CMAC 8004 fuente de alimentación
  - ✓ CMAC 8011 maletín – case

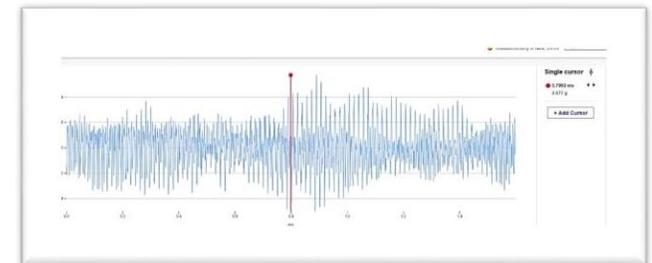
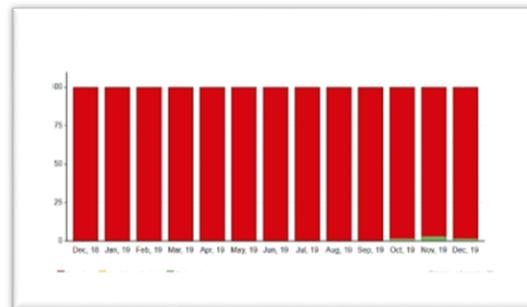


# SKF Enlight Centre

## CMEC 50-SITE

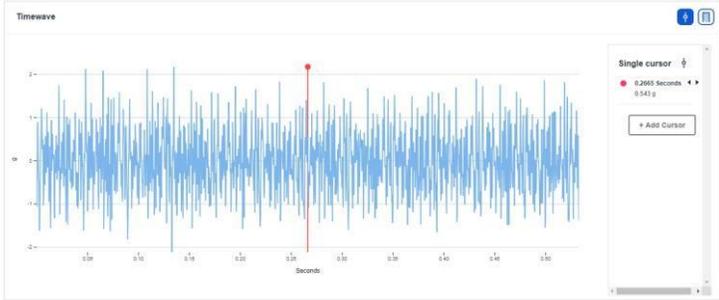


- Este número de parte da acceso al **Enlight Centre** para el sitio de una compañía.
- Se incluyen 50 licencias de usuario para **Enlight Centre**
- La App ProCollect se puede descargar gratis desde **App Store** o **Google Play**.
- 1 Enlight Centre usuario = 1 ProCollect usuario
  - Los usuarios registrados en Enlight Centre usarán el mismo usuario para iniciar sesión en ProCollect



# SKF Enlight Centre

- La nueva plataforma web de monitoreo de condiciones de SKF.
- Con módulos de: **Jerarquía, Ruta, Análisis, Reportes e Insights**
- Roles de usuarios personalizados: Inspector, Analista, Reporteador, Administrador, etc.



# SKF Enlight Centre

## Data Acquisition



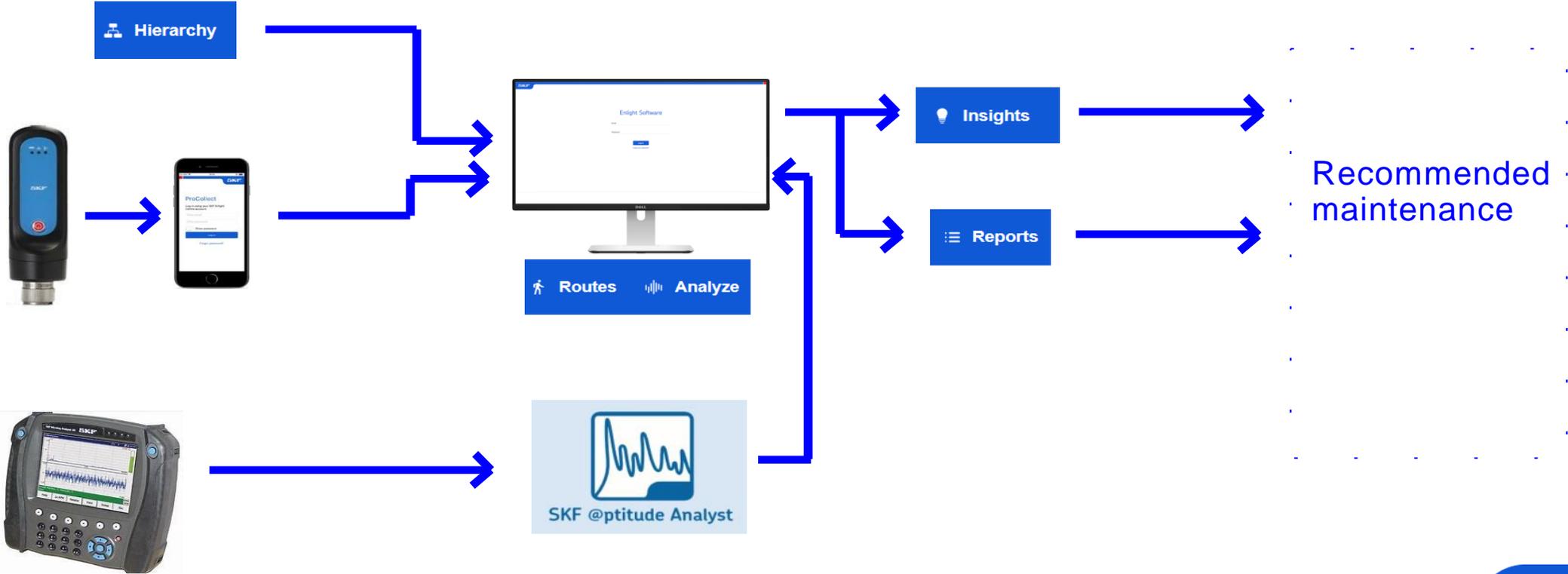
## Data Analysis and Visualisation



## Reporting the Analysis Results



## Corrective Action and Feedback



# SKF Enlight Centre – Roles de Usuarios

- Capacidad de gestionar los diferentes roles y permisos de usuarios.

SKF Enlight Centre | User Admin | Hierarchy | Routes | Analyse | Reports | Insights

### Administer Users

Search for users... [Create User](#)

| Name                          | Email                         | User access                                    | Status |
|-------------------------------|-------------------------------|--|--------|
| Abeer Höglund                 | abeer.hoglund@skf.com         | Analyse, Hierarchy, Insights, ProCollect, R... | Active |
| adam.testspring3.0@strike.com | adam.testspring3.0@strike.com | ProCollect                                     | Active |
| Anders Welin                  | anders.welin@skf.com          | Analyse, Hierarchy, Insights, ProCollect, R... | Active |
| Andreas Westberg              | andreas.westberg@skf.com      | ProCollect                                     | Active |

← Administer Users [Clear all changes](#)

### Create User

**User details**

First name: John Surname: Smith Status: Active

Email: john.smith@vibrations.com Language: British English Company: Search...

**User access**

| Enlight Centre Web   | Actions       |
|--|---------------|
| <input checked="" type="checkbox"/> <b>User Admin</b><br>Manage user accounts        | View & Edit   |
| <input checked="" type="checkbox"/> <b>Hierarchy</b><br>Manage hierachies            | View          |
| <input checked="" type="checkbox"/> <b>Routes</b><br>Manage routes                   | View & Edit   |
| <input checked="" type="checkbox"/> <b>Analyse</b><br>Tools for analysing asset data | View & Edit   |
| <input checked="" type="checkbox"/> <b>Reports</b><br>Manage asset health reports    | Create report |

# SKF Enlight Centre – Jerarquía

SKF Enlight Centre | User Admin | Hierarchy | Routes | Analyze | Reports | Insights

SystemVerification > Quick Collect > Joes Playground > Waste Management Plant > Clean water Pump > Drive Motor B > 22V 89 DE

### 22V 89 DE

Type: QuickCollect Point

Reorder Duplicate Delete

#### General settings

**Generated name**  
22V 89 DE

**Bearing Number**  
22

**Angular Orientation**  
Vertical (V)

**Measurement Type**  
Enveloped Acceleration 3 (E3) | V...

**Shaft**  
89

**Side of Shaft**  
Driven End (DE)

**Fixed Speed (RPM)**  
2000

**Description**  
Drive end QuickCollect point

#### Measurement Location

This image will show in ProCollect if this asset has a point position set.

Clear measurement location



#### Velocity alarms

Enable alarms

Out of window  In window

**Danger high** 10

**Alert high** 5

**Good**

**Alert low**

**Danger low**

#### Temperature alarms

#### Acceleration alarms

#### Configuration

Clear changes Save

© SKFGroup



# SKF Enlight Centre - Jerarquía

- Árbol robusto de jerarquía, con posibilidad de insertar imagen indicativa del punto de monitoreo.
- Configuración de alarmas de tendencia.
- Tipos de puntos:
  1. Punto de medición
  2. Punto Quick Collect
  3. Punto de inspección
  4. Punto de lubricación

**Alarms**

Enable alarms

Out of window  In window

Danger high

Alert high

Good

Alert low

Danger low

The interface shows a vertical bar with segments in red, yellow, and green, indicating the alarm levels.

**Alarms**

Enable alarms

Out of window  In window

Good high

Alert high

Danger

Alert low

Good low

The interface shows a vertical bar with segments in green, yellow, and red, indicating the alarm levels.

# SKF Enlight Centre: Configuración Puntos de Vibración

1. Fmax (Hz) – Frecuencia máxima
2. Número de líneas
3. Gráfica de la señal
4. Tipo de detección
5. Filtro pasa alto

The screenshot shows five configuration dropdown menus:

- Fmax (Hz):** 1K (selected), 100, 500, 1K, 2K, 5K, 10K
- Number of lines:** 1600 (selected), 100, 200, 400, 800, 1600, 3200
- View signal:** Spectrum (selected), Spectrum, Spectrum & Time
- Detection type:** RMS (selected), RMS, Peak, True peak to peak
- High pass filter (Hz):** 10 (selected), Off, 2, 10, 70

## Configuration

- Enable configuration  
Applies only on QuickCollect sensor

### Fmax (Hz)

1 1K

### Number of lines

2 1600

### View signal

3 Spectrum

### Detection type

4 RMS

### High pass filter (Hz)

5 10

### Sensor type

- Internal sensor  
 Extension sensor  
Only QuickCollect CMDT 391

# SKF Enlight Centre - Rutas

- Tipos de rutas:

1. **Básica**
2. **Recurrente**
3. **Observacional**

SKF Enlight Centre | User Admin | Hierarchy | **Routes** | Analyse | Reports | Insights

## Create route

SystemVerification / Quick Collect / Joes Playground

**Route name\***

**Set as\***

Basic ⓘ  
  Recurring ⓘ  
  Observation ⓘ

**Duration\***

→

**Interval\***

Bi-Weekly ▾

| Functional location  | Collected on | Interval | Deadline |
|--|--------------|----------|----------|
| > <input type="checkbox"/> Dirty Water Pump (6)<br>Incoming waste water t...       | N/A          | Monthly  | N/A      |
| > <input type="checkbox"/> Sub-Drive Motor C (2)<br>Sub-level drive motor l...     | N/A          | Monthly  | N/A      |
| > <input type="checkbox"/> Clean water Pump (3)<br>Outgoing clean process...       | N/A          | Monthly  | N/A      |
| > <input checked="" type="checkbox"/> Air fans (4)<br>Air purification for whol... | N/A          | 6 Weeks  | N/A      |

1 functional locati

**Function**

↑↓ 1 > Air fa

# SKF Enlight Centre - Análisis

- 1. Assets
- 2. Measurement points
- 3. Overall trend
- 4. FFT Spectrum
- 5. Overall alarm status

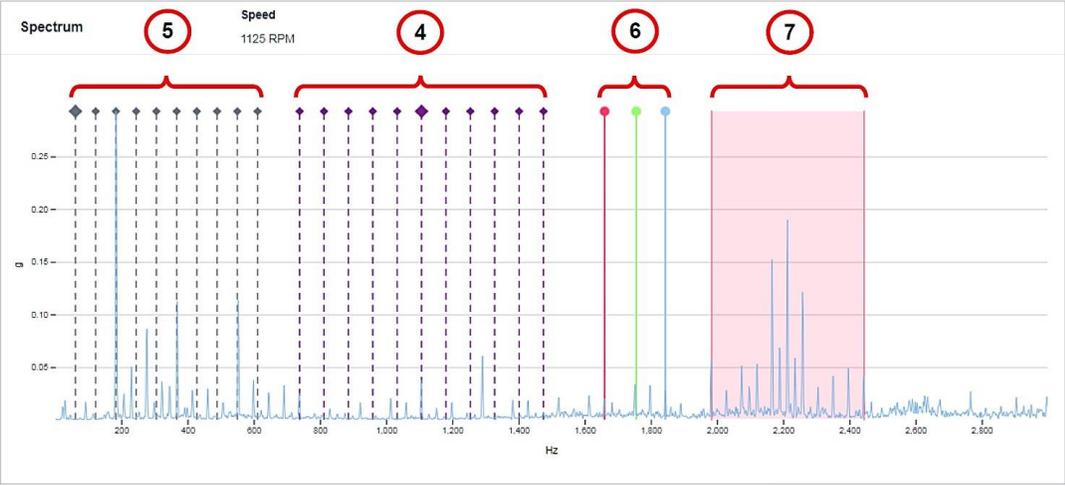
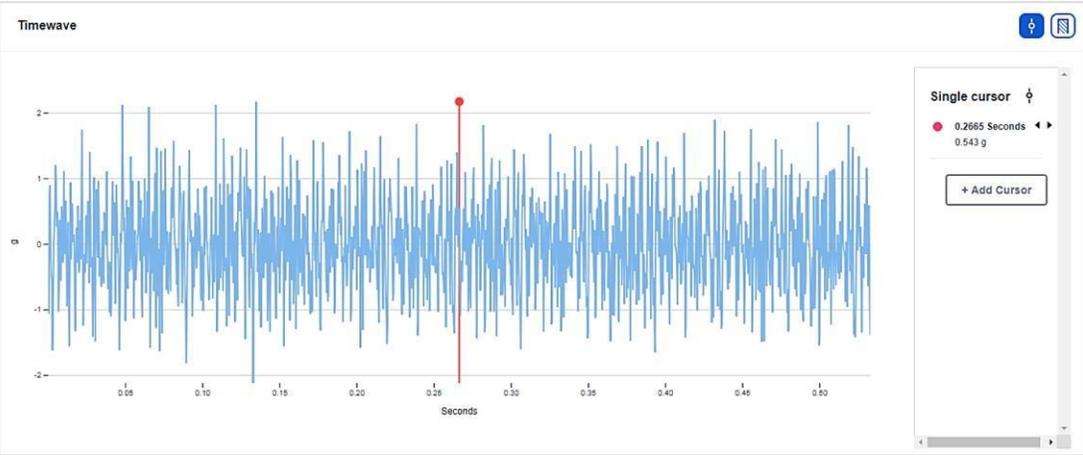
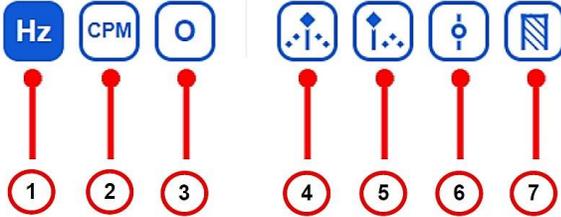
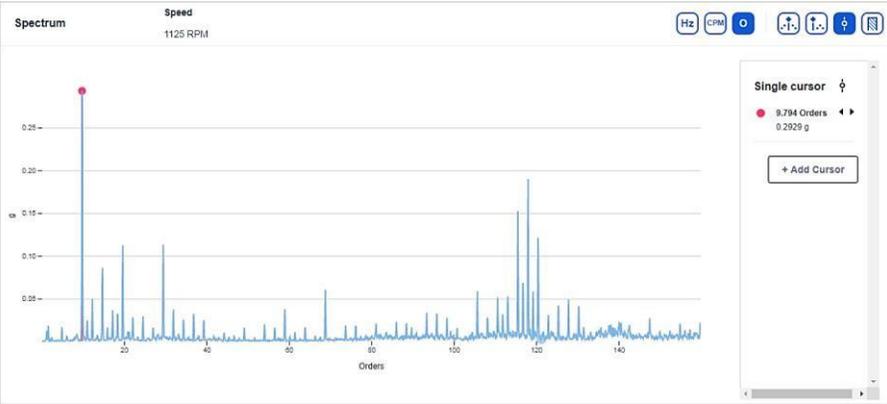
The screenshot displays the SKF Enlight Centre interface for an 'Air Fan' asset. The top navigation bar includes 'User Admin', 'Hierarchy', 'Routes', 'Analyse', 'Reports', and 'Insights'. The main content area is divided into several sections:

- Asset Overview:** Shows 'Air Fan Cooling fan' at 'SKF Test / Barrie's Test Area / Joes playground / Water Management Plant'. It includes an 'Overall alarm status' section with a large red circle containing the number '5', indicating 0 Danger, 1 Warning, and 11 Good. A 'Functional location health' section shows 'Unacceptable 26 Mar, 2019' and 'Reported assets: 0 of 3'.
- Asset List:** A list of assets under 'Fan for high speed pump' is shown. '123AV 2 DE' is highlighted with a red circle '2', and 'Fan for low speed pump' is also marked with a red circle '1'.
- Trend Chart:** A line graph showing 'Fan for high speed pump / 123AV 2 DE' performance in mm/s from 25 Mar to 1 Jul. A red circle '3' is placed over the 'Trend' label. A data point is highlighted at '12 Jun, 2019, 13:57' with a value of '5.084'.
- Spectrum Chart:** An FFT spectrum plot for 'Fan for medium speed pump' collected on '5 Jul, 2019, 11:09:43'. A red circle '4' is placed over the 'Spectrum' label. A peak is visible at 20 Hz. A 'Single cursor' panel on the right shows '20 Hz' and '0.615 mm/s'.



# SKF Enlight Centre - Análisis

- Gráfica de Tendencia, Espectro, y Onda del tiempo
- Generador de cursores de gráfica, bandas laterales, y armónicos.



# SKF Enlight Centre: Flujo de Reporte de Condición de Activos



# SKF Enlight Centre: Reportes

SKF Enlight Centre | User Admin | Hierarchy | Routes | Analyse | Reports | Insights

SystemVerification

Filter: 4 asset statuses | All asset types | All fault types | Clear filters

Group by functional locations

| Functional location     | Asset  | Status         | Time           |
|-------------------------|--|----------------|----------------|
| <b>Air fans</b>         | AIR HANDLING UNIT - AIR CONDITIONER (AC)<br>Asset Fan for high speed Pump<br>Fan for high speed pump | Unsatisfactory | Today at 13:57 |
| <b>Bowling Machines</b> | CLASS NOT SET - TYPE NOT SET<br>Asset Hand Blower<br>TestSprint2.0                                   | Unacceptable   | 29 Apr, 2019   |
| <b>Buys Bearing</b>     | CLASS NOT SET - TYPE NOT SET<br>Asset Dubai<br>No description  | Unsatisfactory | 3 Apr, 2019    |
| <b>Clean water Pump</b> | MOTOR - ELECTRIC<br>Asset Drive Motor A<br>6KW electrical drive motor                                | Satisfactory   | Today at 13:42 |
|                         | MOTOR - ELECTRIC<br>Asset Drive Motor B<br>10KW Electrical drive motor                               | Good           | Today at 13:42 |
| <b>Clothing rack</b>    |  |                |                |

**Asset health**

SystemVerification / ... / Buys Bearing 3 Apr, 2019, 16:23

Asset: **Dubai** Status: ● Unsatisfactory

Description: No description

**Fault (1/1) Air Gap Eccentricity**

| Fault                | Severity                                       |
|----------------------|--|
| Air Gap Eccentricity | <span style="color: orange;">⚠</span> Moderate |

Observation: zsc

**Recommended action (1/1) Check for soft foot**

| Action              | Additional comments |
|---------------------|---------------------|
| Check for soft foot |                     |

**Action status\*** Pending

Work order number: 1



# Consultas Técnicas / Comerciales...

**Consultas técnicas:**

**Ing. Lucio Corcuera C.**

**MH Product Development**

Email: [lucio.corcuera@skf.com](mailto:lucio.corcuera@skf.com)

**Consultas comerciales:**

**Ing. Josué Cevallos A.**

**MH Business Development**

Email: [josue.cevallos@skf.com](mailto:josue.cevallos@skf.com)

**SKF®**