

SKF @ptitude Analyst



Intelligent and scalable software for enterprise-wide communications

A core platform from the SKF @ptitude Monitoring Suite of reliability software applications

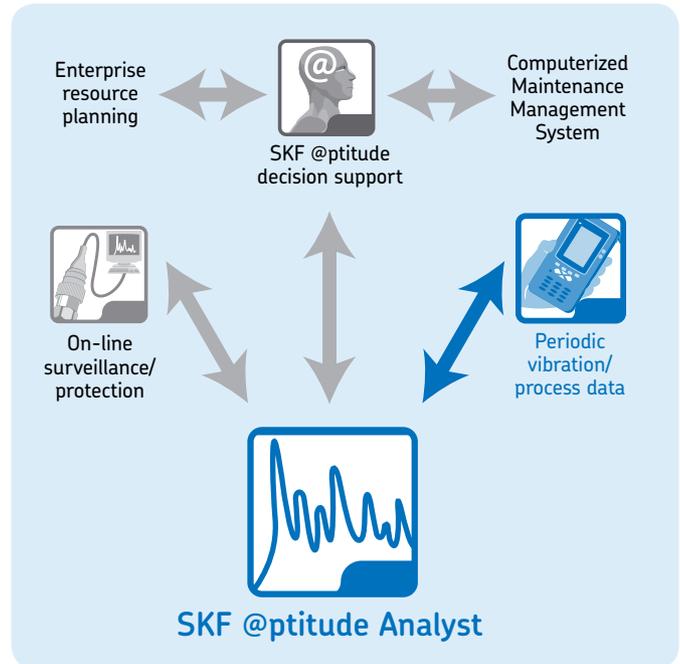
SKF @ptitude Analyst is a comprehensive software solution with powerful diagnostic and analytical capabilities. SKF @ptitude Analyst provides fast, efficient and reliable storage, analysis, and retrieval of complex asset information and makes the information accessible throughout your organization. SKF @ptitude Analyst easily scales to your specific needs, whether it is operator inspection rounds, condition monitoring data collection or in-depth vibration analysis and expert advice.

- One software program to manage asset condition data from portable and on-line devices
- Easy for novice or experienced users to learn and use
- Interconnectivity with multiple enterprise-wide software programs and systems
- Scalable and flexible to meet your unique needs

SKF @ptitude Analyst allows your operations, maintenance and reliability staff to view data from different sources using the same application to communicate information to other departments in a customizable format.

SKF @ptitude Analyst integrates the SKF Microlog, SKF Microlog Inspector, SKF MARLIN, and SKF Multilog data collection device ranges into one enterprise-wide software platform.

SKF @ptitude Analyst can also incorporate data from other sources, such as OPC servers, and seamlessly interface with your organization's Computerized Maintenance Management System (CMMS), Enterprise Resource Planning (ERP) or other information



management systems. In this way, SKF @ptitude Analyst's integrated platform forms the hub to share information, foster teamwork, and facilitate consistent and reliable decision-making across functional departments.

Organization and overview

Detailed information – efficiently organized

Screen displays such as data plot layout, color, size and position can be personalized and automatically updated. A customizable toolbar provides quick access to your most frequently used program features.

Right click on your data plot to modify settings and machine information. Scrolling across a data plot, displays data values in the plot window.

Asset data customized for your unique needs

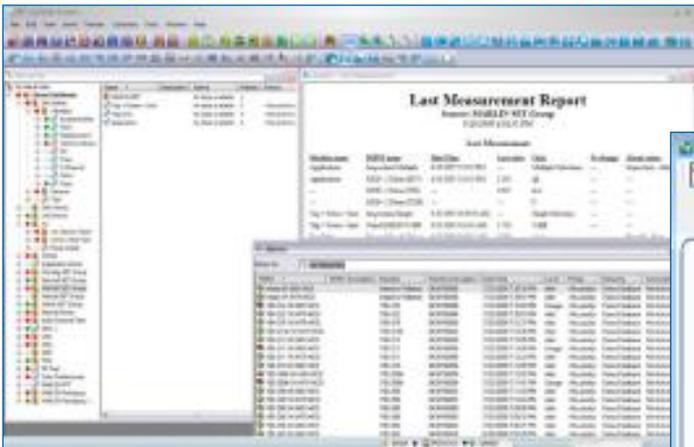
With this powerful analysis tools, you are in complete control – from the way you set up hierarchy, filtered workspaces, routes, and analysis parameters, to the customized format for reporting. You can collect information based on location, machine type, frequency, or other selections. SKF @ptitude Analyst allows you to determine the appropriate limits for alarm conditions and how alarms are categorized to ensure you receive consistent, reliable data in the format that suits you best.



Automatically schedule reports to save time

The Scheduler Wizard enables you to automatically schedule a specific action, such as generating a report upon completion of a data collection upload, archiving measurement data at a specified time or other event-based actions. This capability helps to eliminate human error and allows you to focus on other pressing issues.

Using SKF @ptitude Analyst throughout your organization allows collaboration and communication without losing control of your data.



Connectivity

Staying connected is easy with SKF @ptitude Analyst

Today's data collector systems must support a great variety of data connection methods. SKF @ptitude Analyst supports data collector connections through the USB. For remote users in a Wide Area Network or users with low bandwidth connection, the Thin Client Transfer application may be used to provide a remote but direct access to the database. In addition, this supporting application also permits completely disconnected data collectors to transfer route and vibration data using an email file attachment.

On-line systems with USB, RS485 or Ethernet connections are supported and can be routed through gateways and firewalls. Services dedicated to each monitoring device or monitoring chain ensure data collection with a high throughput and thus quick live updates.

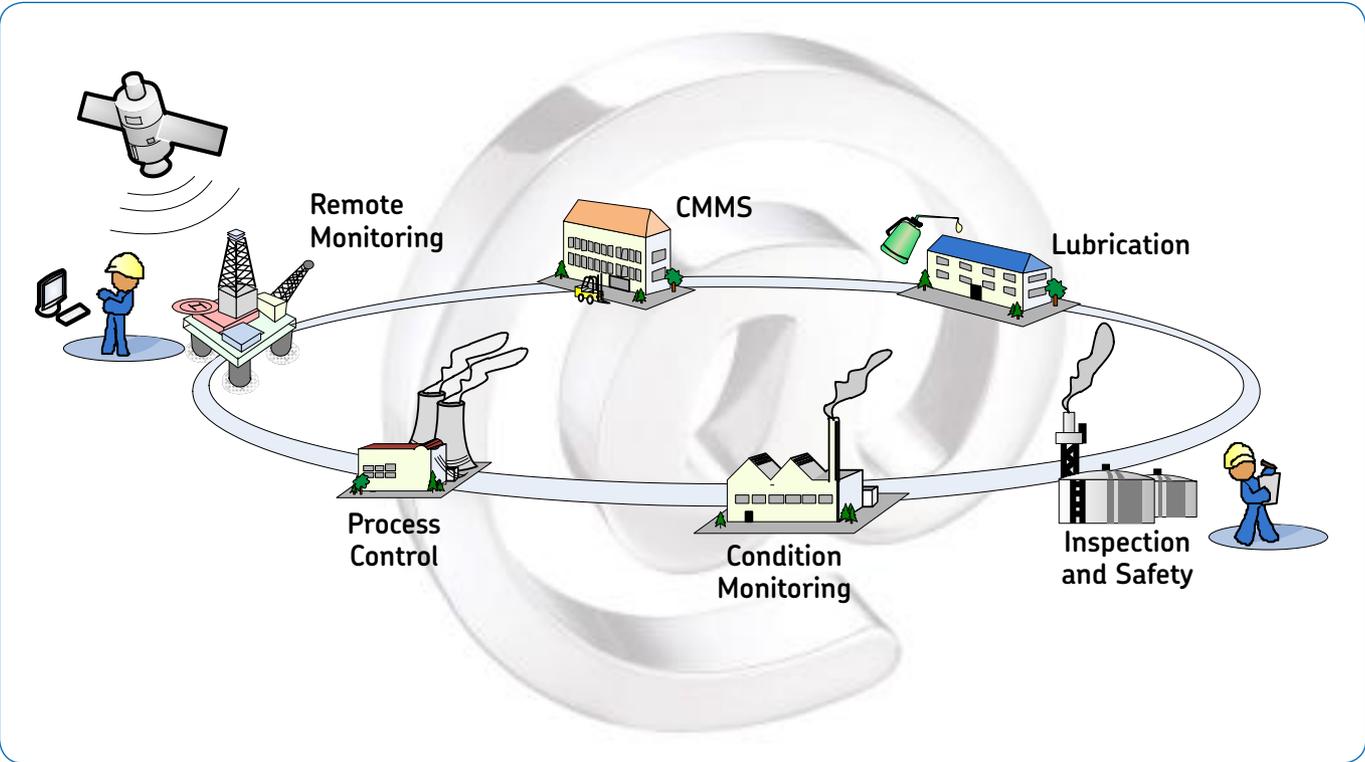
Stay informed 24/7 of your condition monitoring program progress and machine condition changes by using SKF @ptitude Analyst's email and SMS support. You and your colleagues may receive

emails and/or SMS messages of events such as; an scheduled HTML Upload Report with a PDF attachment or a SMS message with plain text describing alarm condition changes.

SKF @ptitude Analyst also supports OPC, or OLE for Process Control, the most widely-used plant data exchange format. With the OPC client interface for SKF @ptitude Analyst, common machinery information, such as load, speed, energy usage, and other important process data, can be obtained and stored in the database for side by side analysis.

Export of Hierarchy nodes in CSV (comma-separated value) file format is also supported in SKF @ptitude Analyst. The CSV output includes full Hierarchy information, POINT setup settings, overall and dynamic values and inspection messages.

XML (Extensible Markup Language), is an open data format supported by SKF @ptitude Analyst. Using this format, a flexible data stream can be set up for automatic import or exports of selected data types. XML data can be imported in Excel or other software with little programming, hence making SKF @ptitude Analyst a truly open system.



Diagnosis and analysis

Robust analytical and diagnostic capabilities that are easy to use

SKF @ptitude Analyst continues to deliver class leading functionality by incorporating innovations such as derived functions, CTA (Cyclic Time Average) overlay, and HAL (Harmonic Activity Locator) analysis to its users (CTA and HAL are SKF patented algorithms).

SKF @ptitude Analyst supports many standard graphs and combination graphs that quickly visualize problem areas. Graph overlays provide cursor functions to obtain special information such as frequency band details, average and standard deviation values, skew or kurtosis. Frequency analysis overlays can be used for spectrum graphs to quickly identify common bearing or other fault source frequencies. Implementation of HAL provides harmonic series recognition whereby impact failures are recognized and prioritized by likelihood.

In some cases, the actual stream of information is not directly acquired but rather must be computed based on a combination of acquired values. Therefore, SKF @ptitude Analyst supports Derived Points, which act like virtual data collection points computed by a user programmable macro that operates on any other data stream. For example, you may calculate potential savings from air leaks in a compressed air system by implementing a derived calculation that multiplies the severity of a measurable air leak in a pipe by the cost to generate each unit.

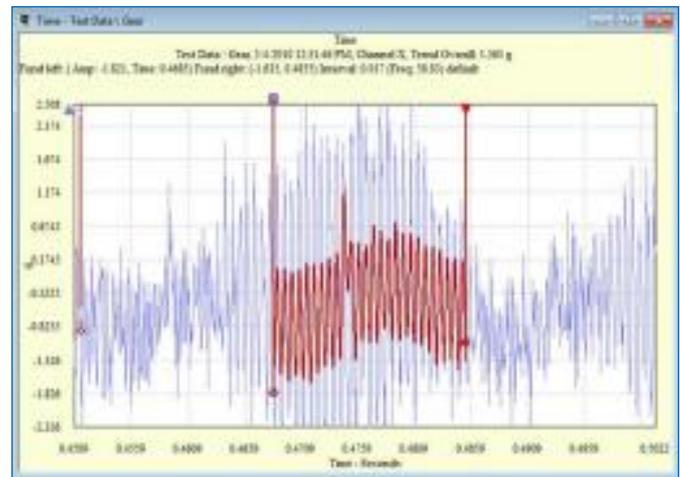
Automated features simplify configuring and fine-tuning alarms

Since similar machines often use similar alarms, the Alarm Database provides user-defined alarms that can be applied to create alarm settings for multiple measurement points.

An Alarm Wizard assists in creating Statistical Alarms to set alarms for your most important machinery with minimal research and effort. SKF @ptitude Analyst considers historical data and natural variation in machinery vibration levels and generates reliable alarm criteria tailored to the specific machine.

SKF @ptitude Analyst's variable speed alarming features accommodate normal fluctuations in machine speed and function. Alarm limits are automatically reset as speed changes, preventing false alarms.

SKF @ptitude Analyst also supports overdue alarms that notify you if monitoring data was not collected as expected.



The CTA overlay enhances time waveform analysis when diagnosing broken gear teeth.

Enhanced alarm view saves valuable time

Alarm View window displays all points that require immediate attention to help you quickly identify and prioritize follow-up activities and acknowledge alarm conditions. The Alarm Details window offers a comprehensive list of the specific points in alarm and the level and type of alarm, all in one convenient view.

Auto Linking makes it easy to view individual alarms as data plots and alarm details change automatically when you select new points, saving time and simplifying the analysis process.

Versatile viewing options for multi-parameter analysis

For fast, easy comparison of two or more readings across multiple points, SKF @ptitude Analyst allows you to select a measurement and drag and drop it into the plot, providing convenience and saving time.

The SKF @ptitude Analyst frequency analysis feature helps to identify specific bearing and gearbox frequency sets for rapid detection and correction of probable bearing and machine problems. SKF @ptitude Analyst's on-line data view automatically refreshes to display the latest information, point status and alarm details. Live views provide immediate update of displayed data while the Event Log documents specific occurrences over time. The System Information view provides one-stop navigation between different views, such as Event Log, On-line Data view, individual routes and workspaces.

SKF @ptitude Analyst's database management tools allow you to closely track machine problems to recreate events for predictive maintenance and to perform root cause failure analysis.

Scalability through application add-ons

Feature and deployment scalability

SKF @ptitude Analyst software is configured using license keys. These keys automatically activate or add new functionality to the base application, hence the name “add-on”. Additionally, three different base applications are available: SKF @ptitude Inspector primarily used for Operator Driven Reliability (ODR), SKF @ptitude Analyst for SKF Microlog Analyzer, and SKF @ptitude Analyst, the flagship application of the SKF @ptitude Monitoring Suite.

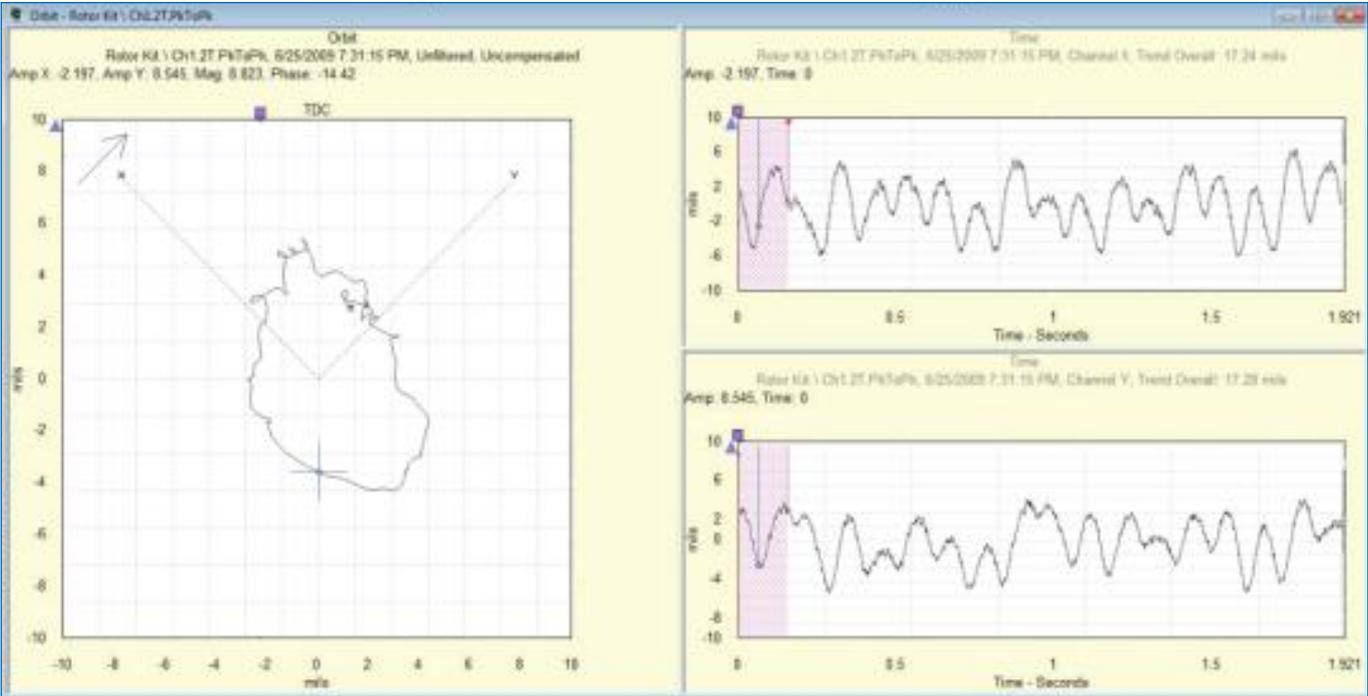
The SKF @ptitude Analyst software can be deployed as a stand alone application on a single workstation or as a fully networked, distributed application whereby data storage and business logic are kept on separate application servers to help ensure high throughput and availability.

SKF @ptitude Analyst software fully supports virtualization through environments such as Citrix or Microsoft Windows Server 2008. These environments allow SKF @ptitude Analyst to be installed and published onto an enterprise system from a centralized location. Data connections can be made through the virtualization environment or through Thin Client Transfer, which provides fast and secure network connectivity.

Transient analysis (Run up Coast down)

The Transient Manager is a standard add-on to the SKF @ptitude Analyst that allows you to manage and display all transient hierarchy views. Depending on transient view properties, the transient event may be automatically captured at defined speed changes and other parameters to provide accurate analysis, such as a turbine coast down event. Transient events may be displayed in live or trend (historical) mode using the following graphs:

- The Topology graph illustrates a series of spectra (similar to Campbell plots) using a user-defined color scheme to easily visualize amplitude peaks. This graph also features vector compensation.
- The Bode graph with Damping Cursor is a dual plot consisting of phase and amplitude as a function of rotational speed. The damping cursor enables you to identify resonance information at critical speed when performing transient event analysis.
- The Nyquist graph plots the shaft’s movement during a transient event and is similar to a Bode graph but using polar notation. This graph also features vector compensation and optional rotational speed labels.
- The Cascade graph plots data over running speed and features data filtering options for optimal event presentation.



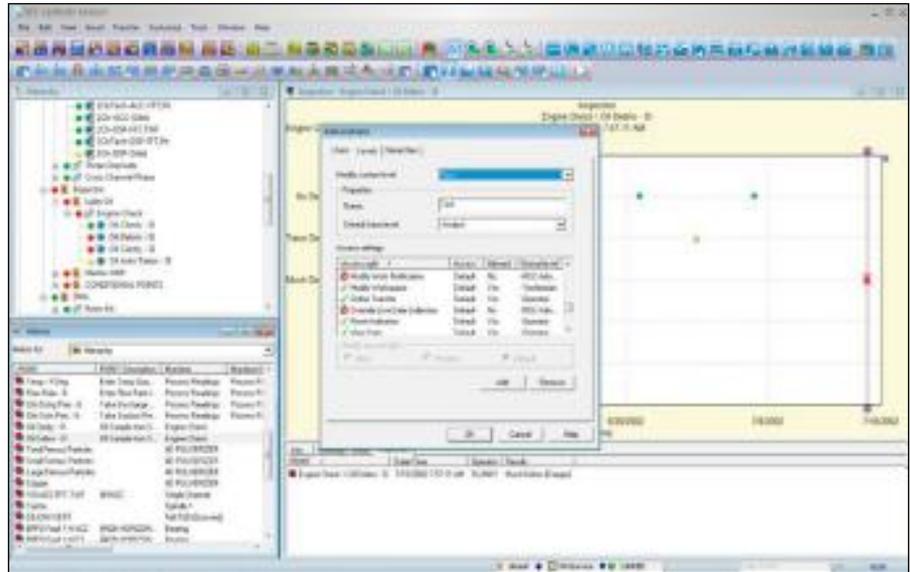
Orbit graph with synchronized X, Y channel time waveforms.

Access and security

SKF @ptitude Analyst permits access on a customized basis, yet allows the effective exchange of detailed information across functional departments.

Advanced security system protects data

SKF @ptitude Analyst enables security through the use of security roles. A security role is comprised of many individual security levels that control access rights to data, viewing, reporting, graphing, and more. Assigning users a security role instantly defines the access rights for that user. Changing the security role definition updates the access rights for all assigned users; this is a time-savings feature when managing several users. SKF @ptitude Analyst comes with four default roles, however an unlimited number of roles can be defined.



Personalized access rights allow the software administrator to protect against errors and enable traceability.

Setup data change log

Measurement setup greatly defines how effective the entire system monitors your assets. For audit purposes, SKF @ptitude Analyst provides a log of changes made to the most important measurement setup details, logging date, responsible person and change detail.

Customized reports

Extensive report customization features let you control the specific kinds of machine information to be communicated throughout the organization. You can customize the templates or design an entirely new report including data plots, supplemental information and digital images. Additionally, the Report Manager allows you to maintain a history of reports, and pre-configure report content and format to share with selected users.

Reports are generated in HTML format, giving you the flexibility to view on-screen, print, edit using Microsoft Word or Excel, attach to an email or automatically post to your company's intranet when programmed into the Scheduler feature.

The screenshot displays a 'Work Notification Report' for 'Source: Bbarancky' on '12/23/2009 4:29:07 PM'. The report includes a 'Last Measurement' section with a table of machine data. The table has columns for Machine name, WDNLT name, Date/Time, Last Value, Exception Value, Units, % Change, and Alarm Status.

Machine name	WDNLT name	Date/Time	Last Value	Exception Value	Units	% Change	Alarm Status
Alarm to Manpower	Envelope Alarm	4/7/2010 7:54:40 PM	0.714869	0.7499373	in/sec	0.208	Overall - Danger
Alarm to Manpower	Band Alarm	4/7/2010 7:54:40 PM	0.714869	0.7499373	in/sec	0.208	Envelope - Danger Band - Danger Band - Band - Peak Danger Overall - Danger
Pump	DE 5d.lee gBT	9/28/2009 4:01:41 PM	0.27827698	---	gBT	---	---
Pump	DE 00 dog 1/vl	9/28/2009 4:01:54 PM	0.449324	---	mm/sec	---	Overall - Alert
Pump	DE 5d.lee 1/vl	9/28/2009 4:01:28 PM	0.1567220	---	mm/sec	---	---
Motor	DE 5d.lee gBT	9/28/2009 4:01:15 PM	0.27812718	---	gBT	---	---
Motor	DE 5d.lee 1/vl	9/28/2009 4:01:06 PM	0.617613	---	mm/sec	---	Overall - Alert
Motor	DE 5d.lee 1/vl	9/28/2009 4:01:07 PM	0.60772	---	mm/sec	---	Overall - Alert
Fan	DE 5d.lee 1/vl	9/28/2009 4:01:13 PM	0.810908	---	mm/sec	---	Overall - Alert
Fan	DE 5d.lee gBT	9/28/2009 4:01:00 PM	0.27860048	---	gBT	---	---

Predefined report templates make it easy to generate common reports such as Last Measurement, Exception, Overdue/Noncompliant, History, Route Statistics, and others.

Features and capabilities

Features / capabilities	SKF @ptitude Analyst CMSW 7400 (■)	SKF @ptitude Analyst for SKF Microlog Analyzer CMSW 7300 (●)		
Device support				
SKF Microlog (AX series, GX series, CMVA 65 or CMVA 60):	■	●		
Human Machine Interface (HMI)				
Integrated HMI:	■	---		
Diagnostics				
Spectrum:	<ul style="list-style-type: none"> Harmonic Activity Index (HAI). A spectrum post processor showing the likelihood of harmonic patterns being present Spectrum plot keyboard shortcuts 	■	---	
Time waveform:	<ul style="list-style-type: none"> Time domain statistics including standard deviation, skew, kurtosis, and crest factor 	■	---	
Analysis and Reporting Manager:		■	---	
Transient analysis:	<ul style="list-style-type: none"> Transient event views Vector compensation 	<ul style="list-style-type: none"> Live and trend mode graphs Damping cursor 	■	---
Alarms				
Advanced functions including high level analysis functions such as CTA, HAL, Contribution, Statistical functions, etc.:		■	---	
View alarm status indicators directly at the hierarchy:		■	●	
Alarm window:	<ul style="list-style-type: none"> Acknowledge alarms and enter comments or recommendations Quickly find and identify all points in alarm within the hierarchy, group, route, workspace, or machine 	■	●	
Alarm details:	<ul style="list-style-type: none"> Provides a summary of the type of alarms and status 	■	●	
User defined alarm levels:	<ul style="list-style-type: none"> Public alarms that can be shared with other users Private alarms that can only be used by specific users Unlimited number of alarms can be configured 	■	●	
Overall alarm levels:	<ul style="list-style-type: none"> Danger high, alert high, alert low, danger low Level alarm, out of window, in window 	■	●	
Alarm types				
Overall forecast:		■	●	
Overall percent change:		■	●	
Unlimited spectral band (overall and peak):		■	●	
Spectral envelope:		■	●	
Phase angle:		■	●	
Overall:		■	●	
Inspection:		■	---	
Variable speed alarms:		■	---	
BOV alarming:		■	---	
Statistical alarm calculation with outlier removal:		■	●	
Graph displays				
Trend:		■	●	
Spectrum:		■	●	
Time domain:		■	●	

Features and capabilities

Features / capabilities		SKF @ptitude Analyst CMSW 7400 (■)	SKF @ptitude Analyst for SKF Microlog Analyzer CMSW 7300 (●)	
Graph displays (continued)				
Waterfall:		■	●	
Cascade:		■	---	
Topology:		■	---	
Orbit:		■	---	
Shaft centerline:		■	---	
Bode:		■	---	
Nyquist:		■	---	
Combination graphs:	<ul style="list-style-type: none"> • Trend / spectrum • Trend / spectrum / time waveform • Trend / speed • Trend / speed / spectrum • Trend / speed / spectrum / time • Trend / speed / time 	<ul style="list-style-type: none"> • Waterfall / extracted trend / spectrum • Trend / time waveform • Spectrum / band trend • Bode / Nyquist • Speed / bode / orbit / spectrum • Speed / bode / spectrum 	■	●
Multiple hierarchy support:		■	●	
Transient analysis graphs:		■	●	
Graph display overlays				
Trend:	<ul style="list-style-type: none"> • Single cursor • Notes indicators • Statistical trend line 	<ul style="list-style-type: none"> • Exponential curve line • Curve fit 	■	●
Spectrum:	<ul style="list-style-type: none"> • Single cursor • Harmonic cursor with Set Speed function • Sideband cursor with dB and Delta values • Band cursor • Peak cursor • Frequency analysis cursor • Diagnostics cursor 	<ul style="list-style-type: none"> • Spectral band alarm, spectral envelope alarm 	■	●
Time waveform:	<ul style="list-style-type: none"> • Single cursor • Band cursor • Band cursor with statistics 	<ul style="list-style-type: none"> • CTA overlay • Frequency analysis cursor 	■	●
Display tools				
Graph linking:	<ul style="list-style-type: none"> • Display information area • On-screen text annotation • Percent of full scale setting • Auto scaling 	<ul style="list-style-type: none"> • Spectrum cursor micro-manipulation • Date range setting 	■	●
Baseline spectrum storage:		■	●	
Waterfall spacing (time / date) based or event:		■	●	
On-screen integration / differentiation:		■	●	
Storage, file formats and networking				
Oracle support:		■	●	
Microsoft SQL Server support:		■	●	
Binary importing and exporting (.MAB):		■	●	
CSV (Excel) exporting:		■	●	

Features and capabilities

Features / capabilities	SKF @ptitude Analyst CMSW 7400 (■)	SKF @ptitude Analyst for SKF Microlog Analyzer CMSW 7300 (●)
Storage, file formats and networking (continued)		
XML importing and exporting:	■	●
Supports for LAN and WAN:	■	●
Support for Thin Client (Terminal) environments:	■	●
Operates with Citrix, Terminal Server, and Microsoft Windows 2008 application server:	■	●
Unlimited number of:	■	●
<ul style="list-style-type: none"> • Hierarchies • Collection points • Measurements • Workspaces 		
General		
Email and SMS support for:	■	●
<ul style="list-style-type: none"> • Scheduled events, i.e., an scheduled report is generated • Unscheduled events, i.e., an alarm condition change 		
Multiple languages available:	■	●
<ul style="list-style-type: none"> • Standard languages: English, French, German, Portuguese, Spanish, Swedish • Non-standard languages: Russian, Simplified Chinese 		
True multi-processing operating environment allowing simultaneous background and foreground processing. Consistent with Microsoft Windows functions:	■	●
<ul style="list-style-type: none"> • "Right-click" functionality • Drag and drop • Cut / copy / paste • Context sensitive help 		
Allows for complete integration of third party applications:	■	●
User preferences to allow customization:	■	●
Complete user and installation manuals on installation DVD:	■	●
Product Support Plans (PSP) available:	■	●
Optional interfaces available:	■	●
<ul style="list-style-type: none"> • OPC Client • CMMS (contact SKF Sales Representative for details) 		
Measurement archiving:	■	●
Measurement types		
Acceleration, Velocity, Displacement:	■	●
Amps, Volts (AC or DC):	■	●
Acceleration Enveloping (gE):	■	●
Temperature (Celsius and Fahrenheit):	■	●
Flow (GPM, LPM):	■	---
High Frequency Detection (HFD, DHFD):	■	●
Inspection (User definable):	■	---
Operating hours:	■	---
Pressure (PSI and Bars):	■	---
SEE:	■	●
Machine speed:	■	●
Control POINTs:	■	●
Support for Multi-Point Automation (MPA):	■	●
English or metric units:	■	●
Triax sensor support:	■	●
Multi-channel support:	■	●

Features and capabilities

SKF @ptitude Analyst CMSW 7400 (■) SKF @ptitude Analyst for SKF Microlog Analyzer CMSW 7300 (●)

Features / capabilities

Measurement attributes

Derived POINT:	<ul style="list-style-type: none"> User definable mathematical formula to calculate values from data collected on one or more POINTs. 	■	●
Alternative time zone support for on-line devices located across a wide area:		■	---

Reporting

Preserved reports:	<ul style="list-style-type: none"> Enables you to maintain a history of reports 	■	●
Shared reports:	<ul style="list-style-type: none"> Allows you to share and preconfigure reports for selected users 	■	●
Emailing of reports with PDF attachment:	<ul style="list-style-type: none"> Send reports to individuals or groups of contacts 	■	●
Send reports to screen, HTML file, printer:		■	●
HTML file can be posted to internet, intranet, emailed:		■	●
HTML files can be opened and modified further using Microsoft Office products, such as Word, Excel, PowerPoint:		■	●
Customizable report content:		■	●
Data plots, supplemental information, and digital images can be included in reports:		■	●
Report template types:	<ul style="list-style-type: none"> Blank Last measurement Exception Overdue / noncompliant Pending overdue / noncompliant Collection status Route history / route statistics Set statistics Upload statistics History Inspection Work notification User defined Compliance 	■	●
Report templates allow quick and easy report configuration for use and reuse:		■	●
Alarm acknowledgment comments / notes:		■	●

Security and stability

Supports definition of user profiles / roles:		■	●
Unlimited number of user profiles / roles:		■	●
Fully configurable user rights that allow you to read, view, and have full access:		■	●
Access rights can be restricted to specific hierarchy or allow multiple hierarchy access:		■	●
Point setup change log. Maintains a log of what was changed by whom and when. Preference setting determines if a reason message is required before allowed to make setup changes:		■	●
Communication with on-line devices is supported by Windows services. Multiple services may be used to provide a high degree of security. Service requires no user login:		■	●
Communication services are auto-restarted in case of failures:		■	●
DAD services system – down e-mail alerts:		■	●

Templates and wizards

Statistical alarm wizards with outlier removal use historical data to help refine overall alarms:		■	●
Hierarchy template wizard allows for rapid hierarchy creation and machine templates for reuse:		■	●
Report template allows for the custom configuration of reports and report template for reuse and sharing:		■	●
Scheduler wizard helps configure and preset recurring activities such as report generation, data archival and task reminders}		■	●

Hardware requirements

Stand alone configuration

- Running SKF @ptitude Analyst
- Running Oracle or Microsoft SQL Server database management system
- Storing data

Configuration	Minimum requirements	Recommended requirements
Operating system:	Windows 7 OR Windows XP Professional with Service Pack 2+	Windows 7 Professional, and Ultimate
Processor:	Intel 1.0 GHz, 32 or 64-bit, or better	Intel Core 2 Duo, 2.0 GHz, 32 or 64-bit, or better
RAM:	4 GB	8 GB or more
Disk space available for standalone computer:	1.2 GB	1.2 GB or more
DVD drive:	One (1) required	One (1) required
Oracle / Microsoft SQL Server:	Version 11g / SQL Server 2008 R2	Version 11g / SQL Server 2008 R2

USB port for SKF Microlog configuration.

Network configuration – Database server

- Running Oracle or Microsoft SQL Server database management system
- Storing data

Network configuration for up to 35 Clients and one database. Installations of 50 Clients or greater will require an on-site assessment by our Field Service Engineers.

Configuration	Minimum requirements	Recommended requirements
Operating system:	Windows 2008 Server	Windows 2008 Server
Processor:	Intel 2.0 GHz, 32 or 64-bit, or better	Intel Quad Core I7 Processor 64-bit
RAM:	4 GB	8 GB or more
Quantity of hard drives:	3	5
Disk space available:	1.2 GB	1.2 GB or more
DVD drive:	One (1) required	One (1) required
Oracle / Microsoft SQL Server:	Version 10g, 11g / SQL Server 2008 R2, 2008	Version 11g / SQL Server 2008 R2

Operating system

Windows 7 (32 or 64-bit) Professional or Ultimate Editions (please visit the Windows 7 and UAC compatibility matrix in skf.com/cm [[Windows 7 and UAC compatibility](#)]), Microsoft.NET Framework 3.5, 4.0, Windows 4.5 Installer and Windows Mobile Device Center 6.1.

Processor

These requirements apply to SKF @ptitude Analyst complete with database management system. Other applications running simultaneously may degrade performance. Hyper-threading should be disabled in some systems.

Disk space

These requirements ONLY apply to SKF @ptitude Analyst complete with database management system. Additional storage disk space is required for data.

Hard drives

The major benefits of spreading Oracle across three or more hard disks at the server is the improved speed, and improved recoverability of a previously archived database. The recommended five disk configuration provides the optimal protection for backup, recovery, indexing, and speed. Disk / file configuration should ONLY be handled by a SKF Field Service Technician certified on SKF @ptitude Analyst. If using RAID, the combination of RAID 0 and RAID 1 is recommended over RAID 5.

Oracle / Microsoft SQL Server

Oracle 10g Express Edition is supported under Windows XP 32-bit only. In a Network Client configuration you must install Oracle 32-bit Client Software. If using Windows 7 (32 or 64-bit), then Oracle 11g must be installed.

Notice

If running other system configurations, please contact your local SKF Representative to inquire about compatibility.

Hardware requirements

Network configuration – Network Client

- Running SKF @ptitude Analyst
- Running database client software

Network configuration for up to 35 Clients and one database. Installations of 50 Clients or greater will require an on-site assessment by our Field Service Engineers.

Configuration	Minimum requirements	Recommended requirements
Operating system:	Windows 7 OR Windows XP Professional with Service Pack 2+	Windows 7
Processor:	Intel 1.0 GHz, 32 or 64-bit, or better	Intel Core 2 Duo, 2.0 GHz 32 or 64-bit, or better
RAM:	4.0 GB	8.0 GB or more
Disk space available for each network client:	1.0 GB	1.0 GB or more
DVD drive:	One (1) required	One (1) required
Oracle / Microsoft SQL Server:	Version 10g, 11g / SQL Server 2008 R2, 2008	Version 11g / SQL Server 2008 R2

USB port for SKF Microlog configuration.

Network configuration – Application server

- Running SKF @ptitude Analyst

Network configuration for up to 35 Clients and one database. Installations of 50 Clients or greater will require an on-site assessment by our Field Service Engineers.

Configuration	Minimum requirements	Recommended requirements
Operating system:	Windows 7 OR Windows 2008 Server	Windows 7 OR Windows 2008 Server
Processor:	Intel 1.0 GHz, 32 or 64-bit, or better	Intel Core 2 Duo, 3.0 GHz, 32 or 64-bit, or better
RAM:	4.0 GB	8.0 GB or more
Disk space available:	1.2 GB	1.2 GB or more
DVD drive:	One (1) required	One (1) required

Operating system

Windows 7 (32 or 64-bit) Professional or Ultimate Editions (please visit the Windows 7 and UAC compatibility matrix in skf.com/cm [[Windows 7 and UAC compatibility](#)]), Microsoft.NET Framework 3.5, 4.0, Windows 4.5 Installer and Windows Mobile Device Center 6.1.

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Ordering information

- SKF @ptitude Analyst software for SKF Microlog Analyzer, SKF Microlog Inspector, SKF MARLIN, and SKF Multilog Systems (DMx, WMx, IMx, TMU, CMU) [CMSW 7400]
- SKF @ptitude Analyst for SKF Microlog Analyzer and SKF Multilog On-line System WMx [CMSW 7300]

All models are available in Single and Multi-client configurations. Please contact your local SKF sales representative for Multi-client model information.

Installation and training

Installation and training is available through your local SKF sales representative.