



Elevating SAP Basis to Peak Efficiency While Saving Costs with Skywind

The Path to Enhanced Management,
Control, Efficiency and Cost Savings



Skywind for SAP Basis

Keeping multiple SAP landscapes performing optimally, secure, compliant, and under centralized control is the paramount challenge faced by SAP Basis experts across complex, multi-client environments.

SkyAPS™ is the comprehensive solution empowering AMS teams to master this complexity through automated monitoring, in-depth analysis, real-time alerting, and a full suite of tools purpose-built to streamline issue resolution, enhance system reliability, and drive operational efficiency

What you get:

- Identify the potential problem before it actually happened
- Notify process/problem initiator dynamically (no subscription)
- Save resources, required for monitoring (less disk space, less IO)
- Spend substantially less time on day-by-day maintenance routines
- Identify mass abnormal activities such as too many dumps/failed jobs/bad IDOCs
- Fine tune only once : 100% inheritance of SAP version upgrades or Database updates

Elevating SAP Basis to Peak Efficiency with Skywind

Summarized Overview (to deliver to Pavlo for a design) grouped by topics

where advanced analytics meet proactive solutions for measurable operational gains.

SAP Basis Challenges

Efficiently managing operations across disparate SAP landscapes

Efficient SAP background jobs management across multiple SAP landscapes

Ensuring high stability and performance at multi-system SAP environments

Enhancing operational efficiency and speed via reduction of manual efforts

Rapid anomaly and error identification across diverse SAP systems

Mitigating security risks and ensuring compliance

Optimizing resource utilization and maintaining steady system health

Controlling user activities, preventing errors and unauthorized access

Ensuring seamless data flow and robust communication between SAP systems and 3rd parties

Elevating SAP Basis to Peak Efficiency with Skywind

Seamlessly tackle complex SAP Basis challenges with SkyAPS™ –
where advanced analytics meet proactive solutions for measurable operational gains.

SAP Basis Challenges	SkyAPS™ Solution Capabilities	Tangible Improvements
Efficiently managing operations across disparate SAP landscapes	Integrated alerting, analytics and unified visibility provide oversight helping to streamline the management	✓ up to 30% faster incident response
Ensuring high stability and performance at multi-system SAP environments	Automated analysis of associated SAP resources to preemptively prevent issues and outages	✓ up to 99.9% improvement in system uptime
Rapid anomaly and error identification across diverse SAP systems	Advanced anomaly detection with in-depth system insights for swift resolution	✓ up to 40% reduction in mean time to detect (MTTD) and resolve (MTTR)
Optimizing resource utilization and maintaining steady system health	Comprehensive resource analysis tracking CPU, memory, work processes, disk space, database usage and many more	✓ up to 20% increase in resource utilization efficiency
Ensuring seamless data flow and robust communication between SAP systems and 3rd parties	Deep monitoring and analysis of protocols and data pathways for seamless, error free data exchange	✓ up to 50% reduction in data transmission errors

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where advanced analytics meet proactive solutions for measurable operational gains.

SAP Basis Challenges	SkyAPS™ Solution Capabilities	Tangible Improvements
Efficient SAP background jobs management across multiple SAP landscapes	Advanced indicators to simplify background job management, reduce overlaps and resource contention, enhancing system responsiveness	✓ up to 80% improvement in job operating efficiency
Enhancing operational efficiency and speed via reduction of manual efforts	Automated, ongoing analytics reduce manual tasks and streamline processes, leading to greater efficiency and less errors across client systems.	✓ up to 25% reduction in manual workload
Mitigating security risks and ensuring compliance	Real-time security tracking integrated with continuous compliance monitoring	✓ up to 25% decrease in user related incidents
Controlling user activities, preventing errors and unauthorized access	Comprehensive access controls integrated with in-depth authorization analysis, user activity monitoring, and segregation of duties violation prevention	✓ up to 35% decrease in unauthorized access attempts

Protect Your Business, Control Your Processes

The SkyAPS™ Solutions Pool:

Skywind 4C™

to increase the transparency of all SAP activities
by enhancing control upon business and
technical events and processes

to prevent unwanted outcomes and quickly
compensate the damage by diminishing the
consequences and restraining further risks

to identify fraud, reveal problems and bottlenecks
earlier, to protect against cyber threats

Skywind JAM™

to gain visibility, agility, better
management, analysis and control of SAP
background jobs

Skywind SoDA™

to analyze and monitor your segregation of
duties, perform in-depth authorizations analysis
and inform you in real time about corresponding
suspicious activities



Solutions and Content

SKYWIND ANALYTICAL PLATFORM FOR SAP

✓ Analytics

✓ Monitoring

✓ Alerting

✓ Smart Data Distribution



- Fraud detection
- Business Processes monitoring
- Infrastructure, Communications, Interfaces monitoring
- Business Warehouse monitoring



- Background Jobs analysis and monitoring
- Background Jobs management and optimization



- Segregation of Duties (SoD) analysis and monitoring
- Authorizations analysis and monitoring



YOUR SAP

S/4HANA

· ECC

· BW

· CRM

· SRM

SkyAPS™ Solutions Content

✓ Skywind 4C™ Basis and Infrastructure Pack

for continuous validation of SAP technical consistency and performance

✓ Skywind 4C™ Generator

for instant, no-code creation of your own controls and reports

✓ Skywind 4C™ Anti Fraud and Cyber Pack

for ultimate SAP protection against cyber attacks and internal fraud

✓ Skywind 4C™ Business Bottlenecks Pack

for superior business control and transparency

✓ Skywind 4C™ Business Warehouse (BW) Pack

for smooth BW operation and maintenance

✓ Skywind JAM™ Analysis and Control

to analyze, control and optimize all SAP Background Jobs activities

✓ Skywind SoDA™ SoD and Authorizations Violations Analysis

– to eliminate and prevent SoD violations and protection against internal fraud

✓ Skywind Security and Administration App.

Internal application for ultimate control of platform usage

#1 Cost-Efficiency Analysis – Mass Abnormal Activities

This part focuses on fundamental system operations and stability, directly impacting system availability and performance.

Top Alerts for Time Loss Prevention:

SM13: Update Request Counter

Time Loss Index: 9

It counts update requests, which is vital for ensuring data changes are processed correctly. **Key advantages are:**

1. Monitoring the health of the update process
2. Quickly identifying spikes in update failures
3. Allowing for timely intervention to prevent data inconsistencies

SM37: Cancelled Jobs Counter

Time Loss Index: 9

It counts cancelled jobs in the system, alerting about mass abnormal activities (mass job failures). **Key advantages are:**

1. Prevent cascading system failures
2. Minimize downtime of critical business processes
3. Allow for rapid intervention to resolve underlying issues

SM12: Old Write Exclusive Locks Counter

Time Loss Index: 9

It is crucial for maintaining system performance. It counts old application locks with Write Lock-Exclusive mode, helping to detect situations where numerous locks occur in a short time frame. **Key advantages are:**

1. Preventing system-wide slowdowns
2. Identifying potential data integrity issues
3. Enabling quick resolution of locking problems that could impact multiple users or processes

ST22: System Dumps Counter

Time Loss Index: 7

With a time-loss index of 7, this alert counts short dumps within a specified period. While slightly less critical than the others, **Key advantages are:**

1. Detecting unusual patterns of system errors
2. Identifying potential code or configuration issues affecting multiple processes
3. Enabling proactive system stability management

#2 Cost-Efficiency Analysis - System Health and Stability

This part focuses on fundamental system operations and stability, directly impacting system availability and performance.

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Recommended Configuration Focus

Identify manual tasks consuming most time
Calculate automation ROI per monitoring area

Potential Impact:
SAP System Operational Disruptions

FOCUS ON:

-  **Core System Stability (RFC, IDOCs, jobs)**
Impact: potentially causing system instability, disrupted operations
-  **Performance Optimization**
RAM / PAGEFILE / CPU / WP / STORAGE / Impact: indicates a significant operational disruption, potentially leading to business process interruptions
-  **Security & Compliance (sensitive transports, user access)**
Impact: potential data processing and connectivity issues, risking inconsistencies in storage and processing
-  **Critical Business Processes (number ranges, interface status)**
Impact: could hinder system performance and disrupt critical business operations
-  **Integration & Communication Health Control**
Email / EDI / Fax / SOST / qRFC / tRFC /
Impact: can severely disrupt data exchange processes and compromise system integrity
-  **SM35: Too long Batch Inputs (e.g., 10+ hours)**
Impact: can impede system efficiency and delay critical business processes

What are the longest Basis manual tasks?

Identify manual tasks consuming most time

Calculate automation ROI per monitoring area

EXAMPLES:

 **ST22: 300+ dumps occurred in 10 minutes**

Impact: potentially causing system instability, disrupted operations

 **SM37: 100+ jobs have failed in 10 minutes**

Impact: indicates a significant operational disruption, potentially leading to business process interruptions

 **SM13: 200+ requests have failed in 20 minutes**

Impact: potential data processing and connectivity issues, risking inconsistencies in storage and processing

 **SM12: Detect prolonged Locks (e.g., 10+ hours)**

Impact: could hinder system performance and disrupt critical business operations

 **WE02: 200+ IDOCS have failed in 10 minutes**

Impact: can severely disrupt data exchange processes and compromise system integrity

 **SM35: Too long Batch Inputs (e.g., 10+ hours)**

Impact: can impede system efficiency and delay critical business processes

What are Basis manual tasks that consume most of the time?

Empowering SAP AMS Experts to Master SAP Basis Challenges

- Anomalies Detection >
- Server Resources Control >
- Automated Jobs Analysis >
- APIs to SOC / SIEM >



- < Communication & Connectivity
- < Logs Analysis
- < User Activities Control
- < SAP Interfaces

and much more...

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Skywind SkyAPS™ Basis Pack:

Empowering SAP AMS Experts to Master SAP Basis Challenges

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Anomalies Detection

Quickly Detecting and Mitigating Critical System Issues

Potential Impact:
SAP System Operational Disruptions

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Server Resources Control

Preventing System Performance Degradation

Potential Impact: SAP System Performance Degradation up to Complete Blackout

EXAMPLES:

-  **ST06: Servers CPU controlling (e.g. Free CPU < 10%)**
Impact: can cause high system latency, reduced throughput, and increased response times
-  **ST06: Free Memory on SAP Server (e.g., RAM < 5%)**
Impact: can lead to significant performance degradation, potential system instability, and increased risk of application failures
-  **ST06: Swap Page File Free Memory (e.g., PF < 10%)**
Impact: can lead to increased disk swapping, reduced performance, and slower response times

-  **DB02: Free Space on SAP Server Disks: (e.g., C:\ < 10%)**
Impact: potentially causing data handling issues and system interruptions
-  **DB02: Database Free Space Control**
Impact: can lead to critical issues such as database write failures, transaction errors, and potential system downtime
-  **SM50: Work Processes Control (e.g. UPD < 20%)**
Impact: can result in delays in transaction processing and reduced system responsiveness

Automated Jobs Analysis

Preventing System Instability and Bottlenecks

EXAMPLES:

Abnormally long running jobs (e.g. 24+ hours)

Impact: can indicate ABAP program inefficiency or issues within the system, potentially causing resource contention and affecting overall system performance.

Multiple parallel job executions(the same job)

Impact: depletion of critical resources such as work processes, memory, and CPU, leading to potential performance bottlenecks and system instability

Redundant Jobs (jobs with identical or similar structure)

Impact: can lead to increased resource consumption, such as additional memory, CPU usage, and disk space, potential confusion for administrators and users, and increased maintenance overhead

Potential Impact: SAP System Performance Issues and Resource Depletion

Jobs that already are or will soon become obsolete

Explanation: jobs with expired date/time variant values or jobs which's steps are assigned to the users with ended (or ending) validity

Deleted Jobs (deleted by user or by program)

Impact: possible fraud, potential data loss, disruption of scheduled processes, and challenges in tracking and auditing system activities

Elongated Jobs (run longer and longer over time)

Impact: potential performance bottlenecks, resource contention, and delays in critical business processes

Automated Jobs Analysis

Preventing System Instability and Bottlenecks

Potential Impact: SAP System Performance Degradation up to Complete Blackout

COMPREHENSIVE ANALYSIS OF SAP BACKGROUND JOBS

- Which jobs overlap with system peak times?
- Which jobs overload the CPU, RAM, WP? Which jobs are redundant or duplicated? Which jobs are or will soon become obsolete?
- Which jobs are at risk of becoming invalid and why?
- Which jobs are experiencing an increase in duration, and what are the reasons behind it?
- During system peaks, which jobs place the greatest burden on the system?
- Which jobs were deleted from SAP systems?
- What alterations occurred to a job and its cause?
- Which jobs consistently fail and why?
- Which jobs are repeatedly delayed and the reasons?
- Who updated which jobs and when?

LEADS TO

OPTIMIZED SAP SYSTEM PERFORMANCE AND EFFICIENCY

- **Less Down Time:** Quicker issue identification and resolution.
- **Economic Savvy:** Save on time, human and machine resources.
- **Anticipate and Act:** Prevent minor hiccups from escalating into technical or business challenges.
- **Superior IT Services:** Enhanced reliability and quality of SAP Basis teams.
- **Trust Building:** Boost stakeholder trust and brand reputation.
- **Work with Confidence:** Equipped SAP Basis team for swift issue handling.
- **Collaborative Spirit:** Strengthened teamwork and problem-solving.

Communication and Connectivity

Ensure Timely Data Exchange, Keep IT Running

Potential Impact: SAP System Downtime
and Operational Efficiency

EXAMPLES:

RFC Connection Ping (internal and external)

Impact: can indicate SAP system is down.

RFC Logon Availability Ping (is the system is “frozen”?)

Impact: could indicate potential logon issues or server unavailability

qRFC queue count (e.g., inbound / outbound > 100)

Impact: potential processing bottlenecks, leading to delays in data transmission and potential system instability

tRFC Queue (e.g. records in SMQ2 are for 2+ hours)

Impact: potential communication failures or performance issues, risking data integrity and system reliability

SOST: Email Anomaly (100+ errors in 10 minutes)

Impact: potential issues with email delivery, risking disruption of critical communication processes activities

SOST: Email Anomaly (100+ are waiting for 2+ hours)

Impact: potential delays in critical email delivery, possibly hindering business communication and operations

SAP Logs Monitoring Analysis

Detect anomalies, ensure system security, integrity

EXAMPLES:

SM20: Analysis of Security Audit Log - Details

Impact: unauthorized access attempts, suspicious transactions, user activity patterns, changes to sensitive data

SM20: Analysis of Security Audit Log - Anomalies

Impact: unauthorized access attempts, suspicious transactions, user activity patterns, changes to sensitive data (en masse)

SM21: Analysis of Debugging Log - Details

Impact: program execution, variable values, error messages, program flow, and potential debugging issues

SLG1: Analysis of Application Log - Details

Impact: potential processing bottlenecks, leading to delays in data transmission and potential system instability

Potential Impact: SAP System Downtime
and Operational Efficiency

SM21: Analysis of System Log - Details

Impact: system errors, warnings, performance issues, background job status, user logon/logout activities

SM21: Analysis of System Log - Anomalies

Impact: system errors, warnings, performance issues, background job status, user logon/logout activities (en masse)

SCU3: Analysis of Change Log (CDHDR / CDPOS)

Impact: changes made to critical data objects, including who made the changes, when they were made, and the old and new values, aiding in audit trails, compliance and data integrity maintenance

DB20: Analysis of DBTABLOG

Impact: detailed records of database table changes, including insertions, updates, deletions, and the associated user information, timestamps, and affected fields

User Activities Analysis

Prevents breaches, compliance violations and instability

Potential Impact: SAP System Security and Performance

EXAMPLES:

SM04: Long Time Logged On Users

Impact: increased resource consumption, potential performance degradation, heightened security risks

SUIM: Inactive Users (e.g., 180+ days)

Impact: increased security risks, potential data breaches, compliance issues and inefficient resource allocation due to unused user accounts

SM20: Users who repeatedly entered wrong password

Impact: account lockouts, increased administrative workload, and heightened user frustration

SU01: Locked Users

Impact: potential processing bottlenecks, leading to delays in data transmission and potential system instability

SU01: User Creators Control

Impact: system errors, warnings, performance issues, background job status, user logon/logout activities

SU01: Users Profile Control

Impact: system errors, warnings, performance issues, background job status, user logon/logout activities (en masse)

SU01: Users Password State

Impact: changes made to critical data objects, including who made the changes, when they were made, and the old and new values, aiding in audit trails, compliance and data integrity maintenance

SU01: Users having SAP_ALL (or any other) Profile

Impact: detailed records of database table changes, including insertions, updates, deletions, and the associated user information, timestamps, and affected fields

SAP Interfaces

Safeguarding data integrity and security

EXAMPLES:



IDocs (Intermediate Documents)

Impact: Delays or errors in IDoc processing can disrupt data synchronization between systems, leading to transaction failures and inaccurate business reporting



RFCs (Remote Function Calls)

Impact: Failed or slow RFCs can cause system integration issues, impacting real-time data exchange and potentially halting cross-system business processes



File Transfers (Direct / FTP)

Impact: Interruptions or errors in file transfers can lead to data loss, incomplete data records, and compliance risks, especially in data-driven decision-making environments



SAP Exchange Infrastructure/Process Integration (XI/PI)

Impact: Disruptions in integration, delays in data flow between SAP and non-SAP systems, resulting in business process interruptions and operational inefficiencies



BAPIs (Business Application Programming Interfaces)

Impact: Malfunctions or inefficiencies in BAPIs can degrade application performance, resulting in slower response times and reduced user productivity



Business Documents (NAST Table)

Impact: Delay or prevent the generation and dispatch of critical documents like invoices and purchase orders, affecting operational efficiency and customer relationships

Potential Impact: SAP Data, SAP System Security, Disrupted Business Operations

APIs to SOC / SIEM

Enable SAP insights within your Security Operation Center (SOC)

PROTOCOLS:

Syslog Protocol

Centralized Logging: Centralize logs from various devices, systems, and software applications into a single repository.

Security Monitoring: Used in security information and event management (SIEM) systems

Web Services

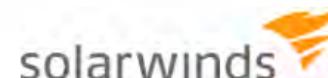
Use Case: Synchronize data flows between SAP and Non-SAP systems such as CRM, eCommerce platforms, or custom databases.

Benefit: Ensures consistency and accuracy of data across different systems, improving operational efficiency and reducing errors.

File Transfers

Impact: Interruptions or errors in file transfers can lead to data loss, incomplete data records, and compliance risks, especially in data-driven decision-making environments

SUPPORTED PLATFORMS:



SkyAPS™ Alerting Cockpit

Analytics Cockpit Catalog Wizard Generator Feed Support

Cockpit Filters Reset **10 Active Alert Instances = 87**

Hierarchy Table

Category/Subcategory/Alert Description

Source system	Summary	Last run	Activity	Severity	Scheduling	Mode	Email	SMS	Specifications	★
ERP1, ERP2, ERT, SKN										
Applications	9									
Cybersecurity	3									
Master Data	2									
Basis Critical	44									
Background Jobs	3									
Server Resources	15									
Anomalies	9									
SM12 Check for Old Locks (10+ hours)	ERP2	18	18	0	9 hours		1	1		
SM13 More than 20 requests have failed in 20 minutes On SAP App1	ERP1	0	0	0	10 minutes		2	2		
SM13 More than 20 requests have failed in 20 minutes On SAP App2	ERP2	0	0	0	10 minutes		3	3		
More than 20 dumps occur during the last 1 hour in ERP2	ERP2	0	0	0	9 minutes		2	2		
Long Running Background Jobs > 24 h	ERP1	0	0	0	3 hours		1	1		
Long Batch Input Monitoring (90+ Minutes)	ERP1	0	0	0	1 days		3	3		
More than 20 dumps occur during the last 1 hour in ERP1	ERP1	0	0	0	9 minutes		2	2		
More than 10 jobs have failed in less than 10 minutes	ERP1	0	0	0	5 minutes		1	1		
20+ iDOCS have failed in 10 minutes	ERP2	0	0	0	15 minutes		1	1		
Communication	7									
Miscellaneous	6									
Connectivity	4									
SAP Prod - RFC Connection Ping - Availability between Servers to Skywind	SKN	0	0	0	5 minutes		2	2		
SAP Prod - RFC Connection Ping - Availability - All Env. Up and Running	ERP1	0	0	0	5 minutes		2	2		
SAP Prod - Can't log on into the system	SKN	0	0	0	5 minutes		3	3		
qRFC - Inbound queue count > 300	ERP1	0	0	0	1 hours		1	1		
System	8									

Export Cockpit to Excel

SkyAPS™ Resources Analysis

Performance Anomalies Management Support Data since 06/11/2023 Last data upload was 4 minutes ago Sys Recovery 

Top KPIs **Upset KPIs** **Informative KPIs** **Server Resources**

Server Performance Monitoring KPIs - CPU and Memory Monitoring as well as work process cross-examination:

CPU Usage (%)

Indicator: CPU Usage (%) Date: 03/05/2024 - 10/05/2024 System: TPP App Server: app001 TPP_01 Calculation Type: Mix

Max CPU Usage: app001 TPP_01 09:00 10:10 89%

Process	Value
Core 1	10
Core 2	20
Core 3	15
Core 4	10
Core 5	10
Core 6	10
Core 7	10
Core 8	10
Core 9	10
Core 10	10
Core 11	10
Core 12	10
Core 13	10
Core 14	10
Core 15	10
Core 16	10
Core 17	10
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Core 97	10
Core 98	10
Core 99	10
Core 100	10

Memory Usage (%)

Indicator: RAM Usage (%) Date: 03/05/2024 - 10/05/2024 System: TPP App Server: app001 TPP_01 Calculation Type: Max

Largest Server's RAM: app001 TPP_01 09:00 10:10 64.0% Max RAM Usage: app001 TPP_01 09:00 10:00 64% Largest Server's Page-File: app001 TPP_01 09:00 10:00 58.6% Max Page-File Usage: app001 TPP_01 09:00 10:00 56%

Process	Value
Core 1	10
Core 2	10
Core 3	10
Core 4	10
Core 5	10
Core 6	10
Core 7	10
Core 8	10
Core 9	10
Core 10	10
Core 11	10
Core 12	10
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Core 97	10
Core 98	10
Core 99	10
Core 100	10

WP's Usage (%)

Indicator: BG0 (background) Date: 03/05/2024 - 10/05/2024 System: TPP App Server: app001 TPP_01 Calculation Type: Max

Max BG0 WP Usage: app001 TPP_01 09:00 10:00 50% Max DA0 WP Usage: app001 TPP_01 09:00 10:00 76% Max SPO WP Usage: app001 TPP_01 09:00 10:00 14% Max UPO WP Usage: app001 TPP_01 09:00 09:00 100% Max UP2 WP Usage: app001 TPP_01 09:00 09:00 14%

Process	Value
Core 1	10
Core 2	10
Core 3	10
Core 4	10
Core 5	10
Core 6	10
Core 7	10
Core 8	10
Core 9	10
Core 10	10
Core 11	10
Core 12	10
Core 13	10
Core 14	10
Core 15	10
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Core 99	10
Core 100	10

Realise Tangible Benefits

SkyAPS™ platform empowers **SAP AMS Basis Teams** to conquer the most daunting challenges of multi-client SAP management. With its unparalleled capabilities in automated monitoring, comprehensive analysis, and real-time alerting, SkyAPS™ ensures:



Performance

Seamless performance and high availability across all SAP landscapes



Visibility

Centralized visibility and control over intricate system operations



Productivity

Enhanced team productivity and operational efficiency



Resolution

Swift issue resolution and optimal resource utilization



Security

Robust control over SAP user activities



The Science of Data.
The Art of Business.

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