

EWA_Mini – Text-Only

Reporting Period: 22.07.2024 – 28.07.2024

System: XXX

Product: SAP S/4HANA 1610 (Productive)

Database: SAP HANA 2.0 SP05

Purpose: Diagnostic and risk-focused system assessment

1. Executive Overview

Overall Rating: ● **CRITICAL**

The analysis identified multiple critical deficiencies across the following domains:

- System maintenance and lifecycle status
- Security configuration
- SAP HANA database administration
- Business process stability
- SAP Note implementation

If these issues remain unresolved, the following risks may materialize:

- Loss of SAP support eligibility
 - Increased security exposure
 - Financial and operational risks
 - Data inconsistencies and system instability
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2. System Landscape Overview

2.1 Software Stack

- SAP S/4HANA 1610 (ABAP)
 - SAP HANA Database 2.00.059.010
 - SAP Kernel 753 (patch level not up to date)
 - SAP Fiori Front-End Server (SAP_UI 751)
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2.2 Operating Systems

- SUSE Linux Enterprise Server 15 (supported)
 - Windows Server 2012 R2 (out of vendor support)
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2.3 Architecture Observations

- Multi-host SAP HANA setup including SYSTEMDB
 - Mixed operating system landscape
 - Service preparation and data collection inconsistencies
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3. Maintenance & Lifecycle Risks

3.1 SAP Application Maintenance Status

Severity: ● CRITICAL

Findings:

- SAP S/4HANA 1610 mainstream maintenance ended on 31.12.2021
- No extended maintenance is in effect

Impact:

- SAP support is no longer guaranteed
- Security notes are no longer reliably provided

Recommendation:

- Urgent upgrade to a supported SAP S/4HANA release
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3.2 SAP Fiori Front-End Server

Severity: ● CRITICAL

Findings:

- SAP_UI 751 is out of maintenance

Impact:

- Increased exposure to UI and Gateway vulnerabilities
- Compatibility limitations for newer applications

Recommendation:

- Plan upgrade using SAP Maintenance Planner
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3.3 SAP Kernel Status

Severity: ● WARNING

Findings:

- Kernel patch level is outdated
- Newer SP Stack Kernel is available

Risk:

- Known issues or regressions may exist
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4. SAP HANA Database Findings

4.1 Backup, Recovery & Administration

Severity: ● CRITICAL

Findings:

- Severe issues detected in backup and recovery configuration
- Parameters not fully aligned with SAP recommendations

Risk:

- Inability to recover the system in disaster scenarios
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4.2 Security Configuration

Severity: ● CRITICAL

Findings:

- Insecure network settings for system replication
- SAP HANA user `SYSTEM` is active and valid
- Recommended audit configuration not applied
- SQL trace and monitoring configuration deviations

Impact:

- Potential unauthorized access
 - Missing forensic and audit capabilities
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4.3 Performance & Workload

Severity: ● WARNING

Findings:

- Expensive SQL statements detected
- Long-running database locks on critical tables
- Global consistency checks not scheduled

Risk:

- Performance degradation during peak periods
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4.4 Database Size & Growth

Severity: ● WARNING

Metrics:

- Current database size: ~567 GB
- Monthly growth: ~8.4 GB

Risk:

- Future capacity and storage constraints
 - Increased backup and recovery duration
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5. Security & Authorizations

5.1 User & Authorization Risks

Severity: ● CRITICAL

Findings:

- Users with unrestricted authorizations in:
 - Client 000
 - Productive clients
- Default and weak password policies detected
- Message Server Access Control List is ineffective

Impact:

- Elevated risk of privilege abuse
 - Non-compliance with security best practices
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5.2 Communication Security

Severity: ● CRITICAL

Findings:

- Internal system communication not fully protected
 - Gateway and RFC security gaps identified
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6. Business Process Stability

6.1 Finance (Order-to-Cash, Procure-to-Pay)

Severity: ● CRITICAL

Key Backlogs:

- Overdue customer payments (4,464 items)
- Overdue vendor payments
- Blocked invoices for payment (5,632 items)
- Invoices not posted to Financial Accounting

Impact:

- Cash-flow issues
 - Increased reconciliation workload
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6.2 Logistics & Manufacturing

Severity: ● CRITICAL

Findings:

- Overdue inbound and outbound deliveries
 - Orders not billed or partially billed
 - Failed goods movements and costing runs
 - Production orders overdue for confirmation or closure
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6.3 Warehouse Management (EWM)

Severity: ● WARNING

Findings:

- Overdue warehouse tasks
 - Errors in EWM PPF actions
 - Recommended background jobs not configured
 - Archiving not implemented for recommended objects
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7. ABAP System Health

7.1 Runtime Stability

Severity: ● WARNING

Findings:

- More than 30 ABAP dumps detected
- Update errors identified
- Table reorganization issues

Impact:

- Reduced transactional reliability
 - Increased operational support effort
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7.2 Number Range Management

Severity: ● CRITICAL

Findings:

- ABAP number ranges nearly exhausted
- Exhausted number range buffers detected

Risk:

- Business process interruptions
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8. SAP Notes & Corrections

8.1 Missing Side-Effect-Solving SAP Notes

Severity: ● CRITICAL

Affected Areas:

- Production Planning / Plant Maintenance
- Controlling
- Logistics General
- Logistics Execution

Risk:

- Data inconsistencies
 - Short dumps
 - Incorrect financial postings
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8.2 Implemented Corrections

Severity: ● OK

Findings:

- Several side-effect-solving SAP Notes are fully implemented
 - Maintenance discipline exists but is insufficient overall
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9. Service Readiness & Monitoring

9.1 Service Data Quality

Severity: ● WARNING

Findings:

- Important service data missing
- Some EarlyWatch checks not executed
- Hardware utilization data incomplete

Impact:

- Reduced diagnostic reliability
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9.2 Service Preparation

Severity: ● WARNING

Findings:

- RTCCTOOL reported RED-rated findings
 - ST-PI and ST-A/PI components not fully up to date
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9.3 Enhanced Hardware Monitoring

Severity: ● WARNING

Findings:

- Enhanced monitoring not active on all hosts

- Limited access to extended performance metrics

10. Performance Overview (Summary)







Overall Performance Rating:  **ACCEPTABLE**

Observations:

- No major response-time issues
- Low CPU utilization on database and application servers
- Dialog, RFC, and update task response times within thresholds

Note: Performance stability may degrade if existing issues remain unresolved.

11. Consolidated Risk Assessment

Domain	Risk Level
Maintenance & Lifecycle	 Critical
Security	 Critical
Database Administration	 Critical
Business Processes	 Critical
ABAP Runtime	 Warning
Performance	 Acceptable


12. Maintenance Status – OS, Database, SAP Software Components

12.1 Operating Systems

SUSE Linux Enterprise Server 15 (x86_64)


- Standard Support: until 31.07.2028
- Extended Support: until 31.07.2031 (LTSS)
- Status: ✓ Supported
- Risk: Low

Windows Server 2012 R2

- End of Vendor Support: 10.10.2023
 - Status:  Out of Maintenance
 - Risk: High
 - SAP support may be restricted
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12.2 Database Maintenance Status

SAP HANA Database

- Version: SAP HANA 2.0 SP05 (2.00.059.010)
- Maintenance Status:  In Maintenance
- Support Model: Follows SAP application lifecycle

Remark:

Technically supported, but configuration and security findings increase operational risk.

12.3 SAP Software Components

SAP S/4HANA 1610

- Status:  Out of Maintenance
- End of Mainstream Maintenance: 31.12.2021

SAP Fiori Front-End Server (SAP_UI 751)

- Status:  Out of Maintenance

SAP Kernel 753

- Status:  Supported but outdated
 - Newer SP Stack Kernel available
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13. SAP HANA Database Health

13.1 Stability and Alerts

Status: ● Warning

- Administrative and configuration deviations detected
 - Global consistency checks not scheduled
 - Required SAP Notes not fully implemented
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13.2 Database Configuration

Status: ● Warning

- Parameters not aligned with SAP recommendations
 - Audit configuration missing
 - Network communication settings insecure
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13.3 Resource Consumption

Status: ● Acceptable

- Max CPU utilization ~8%
 - No memory exhaustion detected
 - Monitoring gaps limit trend analysis
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13.4 Workload and Performance

Status: ● Acceptable (with warnings)






- DB request times within thresholds
 - Expensive SQL statements detected
 - Long-running locks on application tables
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13.5 Size and Growth

Status: ● Warning

- Database size: ~567.27 GB
- Monthly growth: ~8.39 GB

13.6 Consolidated SAP HANA Health Summary

Dimension	Status
Stability & Alerts	 Warning
Database Configuration	 Warning
Resource Consumption	 Acceptable
Workload & Performance	 Acceptable
Size & Growth	 Warning