FUJITSU

Optimize your SAP IT while reducing costs

Fujitsu SystemInspection Service Suite for SAP Solutions

Each SAP application behaves differently toward the IT infrastructure in terms of consuming server, storage and network resources. Performance and service-level issues can have multiple root causes, and finding the right configuration has always been extremely difficult. Quite often more equipment is purchased to solve the problem with brute force. A continuous challenge is the rightsizing of memory at reasonable costs for SAP HANA and S/4HANA databases. Thus, it may be smarter to make a small investment in Fujitsu SystemInspection Service Suite (SIS) upfront, before overspending in systems later or even waste investments entirely through improper configurations.

It is an efficient analysis and consultation package for SAP IT infrastructures, offered at as Standard service, entry service or modular offering. Typically, SIS costs are significantly below the achieved IT cost savings. You get a complete understanding of the current workload, performance, and related resource consumption, plus guidance for optimizing your SAP landscapes in line with the required service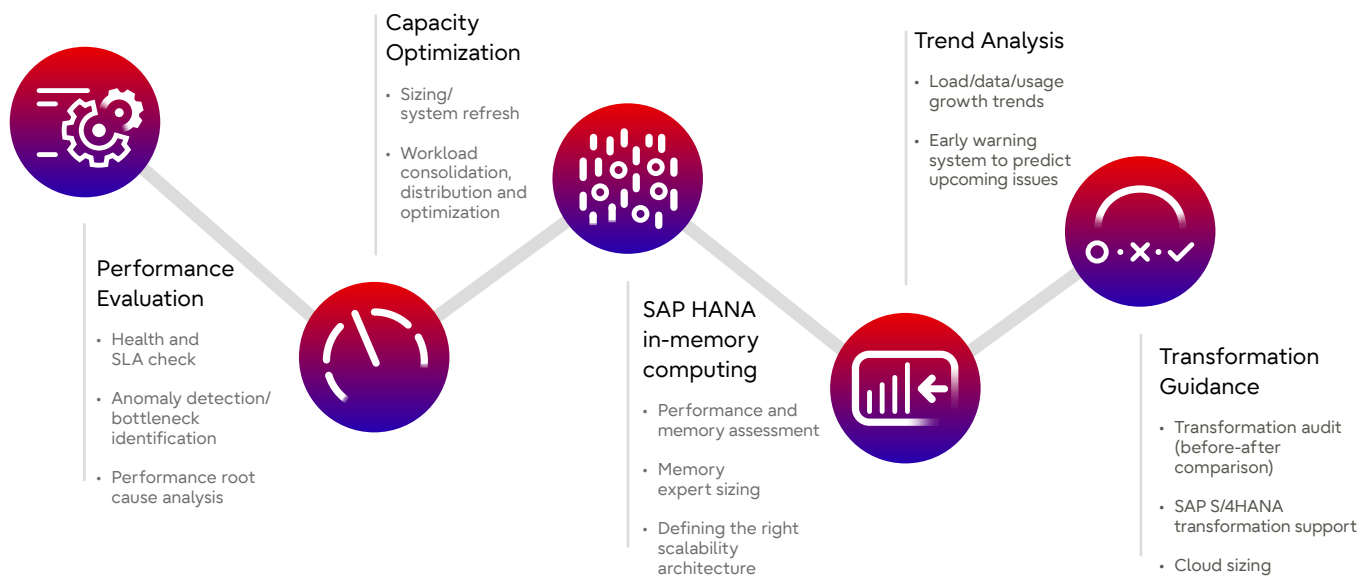 levels. The service solution collects and analyzes numerous performance metrics covering physical and logical layers, such as infrastructure components, transactions, or dialog steps. Unlike standard SAP tools which use theoretical reference architectures, SIS uses the real-life data of your particular landscapes, which creates a much more accurate foundation to provide data-driven decision support for any upcoming transformation, migration, transition, or hardware-refresh projects. The service is applicable to hardware from all vendors as well as (hybrid) cloud environments.

This solution lets you

- Get clear recommendations for optimizing the on-premises or cloud IT infrastructure for SAP landscapes
- Increase the quality of service by helping to eliminate performance bottlenecks
- Avoid unnecessary investments in IT equipment
- Find the right combination of DRAM for your particular SAP HANA database
- Deliver individual and short-term results with minimum effort
- Get insights relevant to capacity planning for upcoming new requirements
- Detect issues which may impact your service levels in the future (early warning system)
- Support cloud migration projects

Great value for the following usage scenarios

There are five main usage scenarios for which this service can add great value.

Capacity Optimization
- Sizing/ system refresh
- Workload consolidation, distribution and optimization

Trend Analysis
- Load/data/usage growth trends
- Early warning system to predict upcoming issues

Performance Evaluation
- Health and SLA check
- Anomaly detection/ bottleneck identification
- Performance root cause analysis

SAP HANA in-memory computing
- Performance and memory assessment
- Memory expert sizing
- Defining the right scalability architecture

Transformation Guidance
- Transformation audit (before-after comparison)
- SAP S/4HANA transformation support
- Cloud sizing

- **Performance Evaluation**
  After an initial measurement phase, the SAP system landscape is analyzed and evaluated with respect to a pre-defined set of performance KPIs. Potential bottlenecks are identified, and workload profiles are derived. The anomaly detection mechanism scans all measured data points and separates the normal from the anomalous. Results are visualized with an interactive 3D model. A root cause analysis is conducted based on very comprehensive data sets.

- **Capacity Optimization**
  This includes the analysis of workloads in the existing SAP system landscape and determination of the future requirements for conducting consolidation, workload redistribution, migration and upgrade projects. There have been many cases in which unnecessary investment in IT equipment was prevented. Thus this service solution can contribute to achieving excellent ROI.

- **SAP S/4 HANA in memory computing**
  The massively increased response time of transactional and analytical tasks enable customers to do more in real time thanks to SAP HANA in-memory technology. Of course, the key requirement here is to appropriately size the main memory layer in a server architecture. As skills in this new area are still rare, this service can add great value.

It avoids potentially extreme costs of improper memory configurations and can help to consolidate complex multi-node server architectures into a single server environment. The latter results in simpler SAP HANA DB operations and eliminates the network latency between servers.

- **Trend Analysis**
  Most performance issues develop over time and could have been prevented if action had been taken earlier. Do not wait until users complain! Use the trend analysis of the SystemInspection Service Suite as an early warning system.

- **Transformation Guidance**
  Whenever you plan a major change in your SAP application landscape, it is vital to have a solid base of data to adapt the underlying IT infrastructure appropriately. The SystemInspection Service Suite can accompany you through the transition process. Data about the measured status quo and future requirements is used to define the target architecture. Once the change is complete, an additional measurement will ensure that everything fits correctly – if not, suggestions for improvement are made. These steps are not limited to SAP deployments on-premise – cloud migration projects can also be included.

For more Information about SystemInspection Service Suite visit our website.

If you think that professional assessment and advice can help you optimize your SAP infrastructure, please be sure to contact us: **cic@ts.fujitsu.com**