

A photograph of two men in a factory environment. The man on the left, with grey hair and a beard, is wearing a light blue checkered shirt and is looking towards the right. The man on the right, with dark hair, is also looking towards the right. They are standing in front of a large industrial machine. In the foreground, a black SIMATIC control panel is visible, featuring a small screen and a rotary knob. The background shows various industrial components and machinery.

SIEMENS

Industry Services

SIMATIC System Audit

Increase your system availability through detailed knowledge of the condition of your plant

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Audit SCADA
Status

Audit DCS
Lifecycle
Services

Audit DCS
Status

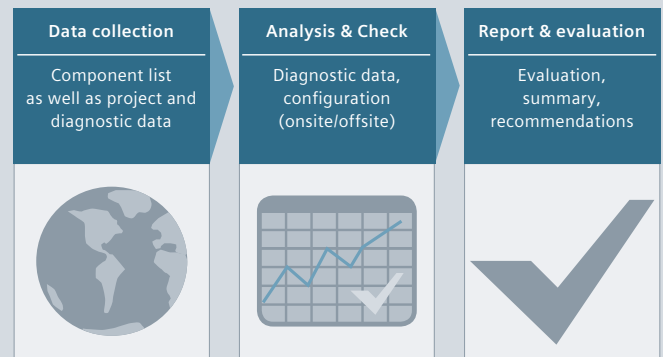
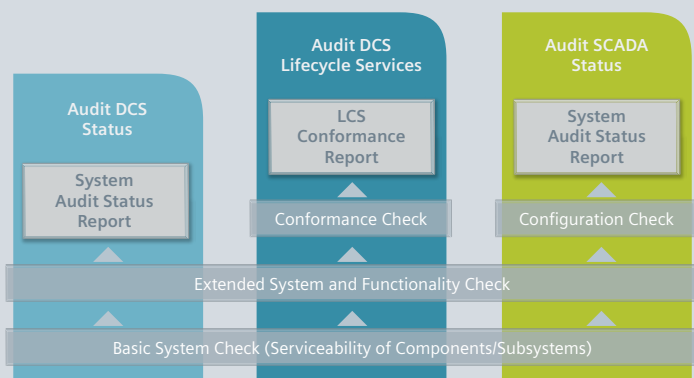
SIMATIC System Audit



Maintain a constant overview – thanks to SIMATIC System Audit

The key requirements for your SIMATIC automation system are to ensure the maximum productivity and efficiency of your plant across the complete lifecycle – even as plants are becoming increasingly complex and in the face of rising cost pressures. As a result, the availability and serviceability of your automation system are becoming increasingly important for the productivity of your plant. The perfect coordination of products, systems, and services requires detailed knowledge about the condition of your plant. That is where the SIMATIC System Audit comes in: It provides the essential foundation for a meaningful conceptual design of service strategies and the efficient implementation of plant updates or Lifecycle Services.

SIMATIC System Audit



Overview of the SIMATIC System Audit

As they age, many production plants must be adapted to new conditions, expanded, or upgraded for various reasons. Such interventions into the original plant and automation concept affect all system components and can interrupt the production workflow through undefined system statuses. The causes of these disturbances include, for example, different procedures used by external service providers or the lack of systematic maintenance on the automation system.

A SIMATIC System Audit brings complete transparency to the current status and the serviceability of your SIMATIC automation system.

Even if there are no current problems, a system audit should be implemented because it serves as the basis for future service strategies or lifecycle service contracts.

The modular SIMATIC System Audit portfolio contains different versions, enabling the operator to determine the system status when needed. A Basic System Check and an Extended System and Functionality Check form the foundation for all performance modules.

For the Audit DCS Lifecycle Services module, a Conformance Check is subsequently conducted in preparation for a Lifecycle Service Contract. For the Audit SCADA Status module, a specific Configuration Check provides a detailed system status.

The workflow

Ordinarily, you would supply the inventory data/component list and the project and diagnostic data. As an option, through a separate agreement, the data can also be collected by Siemens.

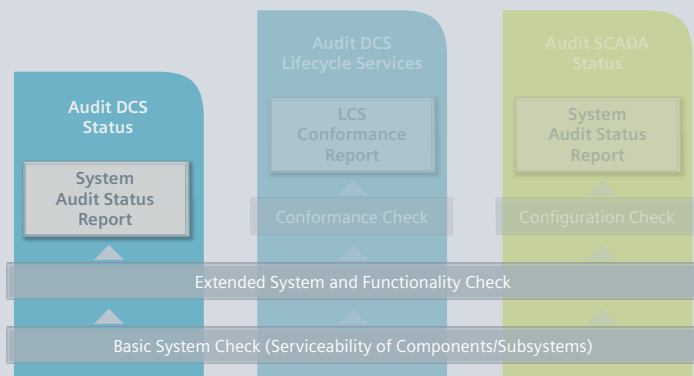
As the next step, system specialists from Siemens (off-site) review the project and diagnostic data using reference documents and checklists. In addition, they also assess the functional obsolescence of your inventory data.

Additional analyses need to be carried out on-site for the audit modules. The various audits result in comprehensive audit reports containing detailed evaluations and recommendations.

A system assessment report can be prepared after a Basic System Check. Therefore, representative system components can be reviewed in coordination with you. The results provide you with a general overview of the status as well as a report regarding the serviceability of your system along with corresponding recommendations.

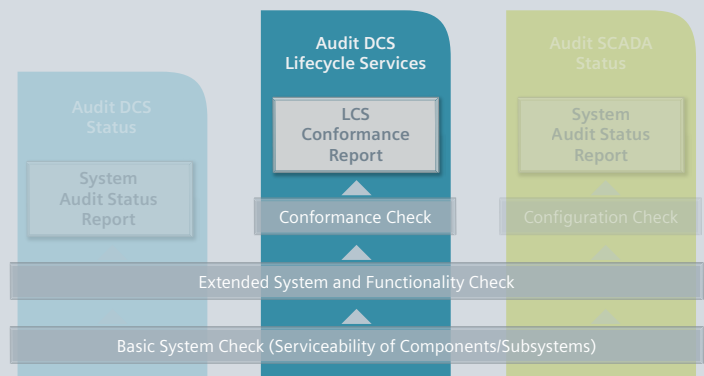
For the two DCS Status and SCADA Status audit modules, there is a system assessment that can be used as a starting point to visualize the performance and scope of the complete audit modules. It can also be used as a foundation for short-term service contracts. The system assessment is conducted off-site and can be ordered separately.

SIMATIC System Audit – Audit DCS Status



Audit DCS Status: Plant analysis with a complete identification of potential risks and determination of the detailed system status

SIMATIC System Audit – Audit DCS Lifecycle Services



Audit DCS Lifecycle Services: Preparation of a SIMATIC PCS 7 long-term Lifecycle Service Contract with a term of up to 15 years

Audit DCS Status

This module performs a detailed system analysis to evaluate the status of your plant.

It serves as the basis for the following:

- Making decisions on system expansions
- Developing service strategies
- Preparing hardware/software upgrades
- Minimizing the upgrade risk by analyzing and assessing the system configuration as well as up-to-date diagnostic data

This module focuses on assessing the

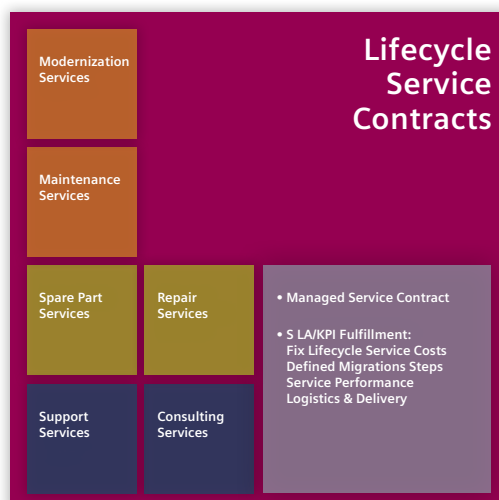
- Serviceability
- Upgradeability/updateability
- System availability

Audit DCS Lifecycle Services

This module offers you all elements of the Audit DCS Status module. In addition, a Conformance Check creates an LCS Conformance report that enables statements to be made regarding the serviceability and the upgradeability/updateability of the audited system.

Module of a long-term Lifecycle Service Contract, for example:

- Service agreement management
- Industry Online Support & Technical Support
- Inspection/maintenance/repair (on-site/remote)
- SIMATIC Inventory Baseline Services
- Lifecycle Information Services
- Software Upgrade/Update Services (HW/SW)
- SIMATIC Remote Services



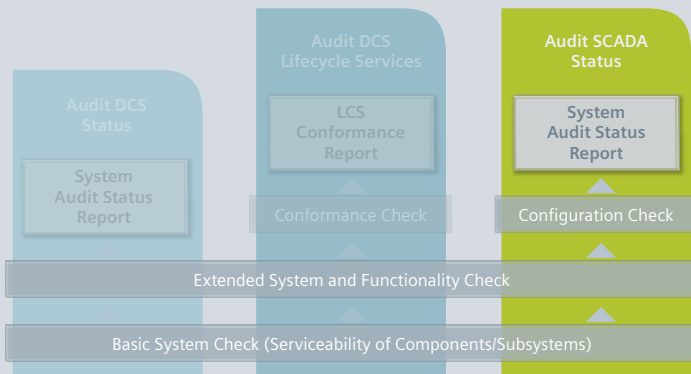
Lifecycle Service Contracts

Defined service elements and contract-specific parameters form the components for a modular SIMATIC PCS 7 Lifecycle Contract.

We work with you to select and determine these plant-specific service elements and the contract parameters.

Your individual contract solution is geared to the requirements (e.g. reactive or preventive service concept) that are reflected in typical contract profiles for Lifecycle Contracts.

SIMATIC System Audit – Audit SCADA Status



Audit SCADA Status: System analysis with complete identification of potential risks and determination of the detailed system status



Audit SCADA Status

This module creates a detailed system audit status report for your SIMATIC WinCC SCADA system with a subordinate SIMATIC S7 automation level. The projects have to be created with the SIMATIC WinCC Classic or SIMATIC TIA Portal engineering tools.

The review includes all electronically accessible components of the system configuration. Three sequential tests (audit levels) provide for the scalability of this audit module. The type and scope of the test criteria to be used depend on the selected audit level and on the system configuration to be audited.

The evaluation of the data takes place with specific references to vulnerabilities in the system and suggestions on how to correct them.

The following audit topics are audited:

- **Audit Level: Basic System Check**
The review of the **serviceability** of the components used and of the system solution forms the foundation for the Basic System Check.
- **Audit Level: Extended System and Functionality Check**
Next, a check of the **system log files** and the **system functions** reports the system status.
- **Audit Level: Configuration Check**
In addition to the checks listed above, the review of the **Engineering & Configuration** includes a check of the system parameters and system configuration.

The benefits of a SIMATIC System Audit

In addition to the comprehensive overview of the status of your automation system, the SIMATIC System Audit offers you a wide range of benefits:

- Expert vulnerability and risk analysis with recommendations
- Avoidance or minimization of system risks related to serviceability and upgradability
- Reduction of standstill and downtimes by ensuring serviceability
- Lifecycle information from the manufacturer about the status of the products and systems used:
 - Product lifecycle milestones
 - Spare parts availability
 - Successor components
- Proven basis for Lifecycle Service Contracts

Are you interested in a SIMATIC System Audit?

If so, then please contact your Siemens contact partner, who will be happy to provide you with detailed information and help you with placing an order:

[siemens.com/aspa](https://www.siemens.com/aspa)

You can find additional information at the following link:

[siemens.com/ssaa](https://www.siemens.com/ssaa)

Find out more:

siemens.com/ssaa

SIMATIC Lifecycle Services

SIMATIC Lifecycle Services from Siemens optimize availability and ensure the maintainability of machines and plants. A comprehensive service portfolio covers the complete lifecycle, from planning, development, and operation to modernization. Perfect matching of these services to SIMATIC automation products and systems plays a crucial role in protecting your investment and in the efficiency of your machines and plants.

Find out more
about SIMATIC
System Audit
here



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Siemens AG
P.O. Box 32 40
91050 Erlangen
Germany