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Overview

Siemens Digital Enterprise Services

As an industry partner, we offer you an unrivaled range of services and support based on our extensive technology and industry know-how. With our offer, you gain a high level of reliability and shape the digital future of your company. Our services cover the complete life cycle of your machines and plants and help you to increase their profitability and efficiency and to take advantage of the opportunities for digitalization while simultaneously reducing your total cost of ownership.

Learn more about Siemens Digital Enterprise Services online at:
https://new.siemens.com/global/en/products/services/industry.html

Overview

The following section gives an overview of the specific Lifecycle Services for process instrumentation – a component of Siemens Digital Enterprise Services.

Lifecycle Services contract for process instrumentation

When it comes to making operating costs predictable and optimizing them continuously, protecting investments and thus ensuring plant availability, the key criterion for success is the serviceability of your instrumentation. That is the reason for our reactive, proactive and preventive Lifecycle Services for process instrumentation, which ensure the serviceability of instruments in modern plants at optimized costs throughout their life cycle. These individual services can be easily integrated on a product-specific basis into service programs or even into customized service contracts that are tailored to your specific requirements.

The standardized, yet flexible structure of our services for process instrumentation provides a future-proof basis for:

- Protection of your investment
- Assurance of plant availability
- Long-term predictability of maintenance costs
- Cost-optimized modernizations

More information

More information is available on the Internet at:
https://new.siemens.com/us/en/products/services/industry/digital-industry-services.html

Calibration Services

Overview

Our comprehensive Calibration Services offer a large spectrum of calibration and verification services that assure maximum reliability and precision for your process measuring equipment.

Calibration services performed at the factory (off-site)

Make sure that your measuring instruments conform to industry standards and maintain operational readiness during the lifecycle. Our accredited laboratory is in accordance with ISO 17025 and is fully equipped with state-of-the-art precision instruments which offer a wide range of calibrations for dimensioning, electronic and process devices.

Calibration services provided on site (on-site)

Timely maintenance and calibration of measuring instruments is critical during the operating phase of the plant life cycle. We can also supply our calibration services directly to your facility in order to ensure that your processes do not suffer from extended downtimes.

	Pressure	Temperature	Flow rate	Weighing technology
Off-site calibration according to ISO 9001	✓	✓	✓	
Off-site calibration according to ISO 17025	✓	✓	✓	
Internal state calibration (cold water, flow for heat/cold quantity)	✓	✓		✓
On-site calibration according to ISO 9001			✓	

Benefits

Reasons for calibration of field instruments

- Periodic calibration for quality assurance according to ISO 9000
- Compliance with standards, guidelines or legal requirements
- Verification of custody transfer measurements (cold water, flow for heat/cooling quantity)
- Early detection of errors in measuring equipment
- Determination of the operational safety of the measuring equipment

More information

More information is available on the Internet at:
https://www.usa.siemens.com/pi-service

Re-calibration ordered in three simple steps

An order is initiated online on the WebLogX SIRENT web page. Use of the WebLogX "SIRENT Instrument and Tools Management" home page requires a personal login.
Register on the following website:

https://www.weblogx.siemens.com/tools/DesktopDefault.aspx

On this web page, you will find the required calibration questionnaire as well as additional information.

1. Fill out the calibration questionnaire

- For flow meters: Send the completed calibration questionnaire to the following e-mail address:
  sirent-calibration.flow.industry@siemens.com
- For pressure, temperature, vacuum, relative humidity, dew point temperature, conductivity, vibration, sound, speed, send the completed form to the following e-mail address:
  sirent-calibration.industry@siemens.com

2. SIRENT- quotation

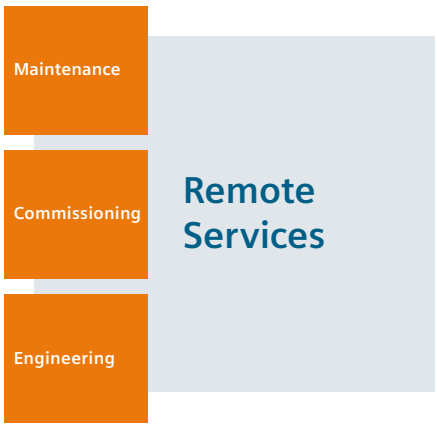
Shortly after you have submitted the calibration questionnaire, you will receive a quotation with all the necessary details.

3 . Shipping

Send us your flow meter with the decontamination declaration to the following address:

Siemens AG
SIRENT calibration service
c/o HDS GmbH
Gundelfinger Str. 20
90451 Nuremberg
Germany

Overview

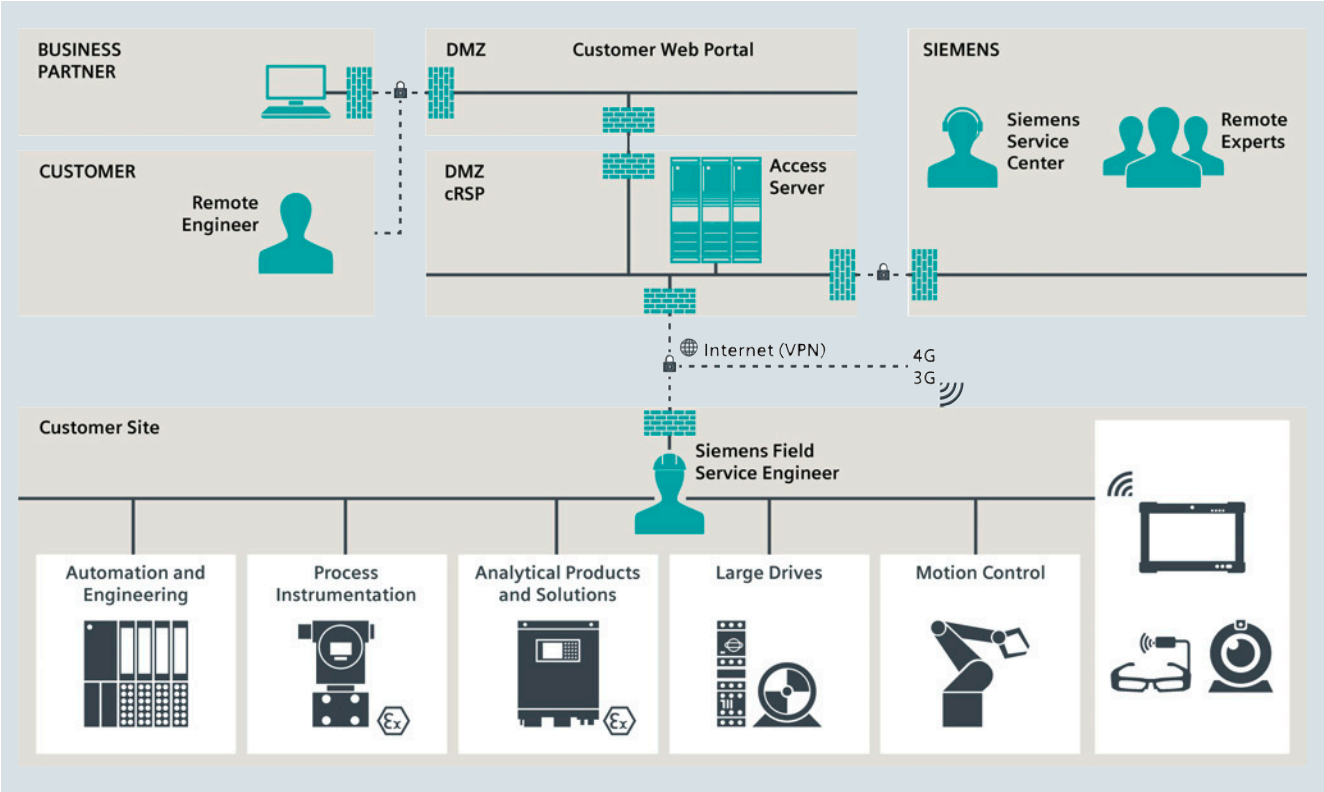


Remote Services for process instrumentation

The engineering, commissioning and maintenance of automation systems involves significant amounts of both time and personnel resources, regardless of whether in a hazardous area or not. It is precisely these service tasks which can be optimally supported and even carried out remotely using powerful, modern communication media. It is imperative here that the growing IT security requirements are met and that remote activities can be accounted for.

With our offering of platform-based remote services, our customers around the world can access centrally available expert knowledge of product manufacturers 24/7.

The "Remote Access Services" (so-called "connectivity packages") are required once per installation and enable communication between the customer system and Siemens IT infrastructure (cRSP = common Remote Service Platform); they consist of different hardware and software components.



In the context of remote services, a distinction is made between "Remote Desktop Sharing" and "Remote Assisted Collaboration".

Remote Desktop Sharing allows the Siemens expert to access the configuration software and via this, to access the connected systems and field devices.

Remote Assisted Collaboration supports the service technician on site with a Siemens expert from a distance using the **SIPIX SD Service Tablet**. Video images can be transmitted and communication via audio and live chat is possible via an independent VPN channel. In addition, the use of **data goggles** allows hands-free work on field devices.

Benefits

- Secure remote connection of your automation system to the SIMATIC TechSupport IT Infrastructure
- Global, direct connection to the network of the Siemens system experts
- Provision of remote IT infrastructure including support and maintenance
- Complete transparency due to central administration of all system accesses
- Compatible with generally valid Industrial Security concepts
- TÜV/CERT certification of Siemens cRSP infrastructure

Selection and ordering data

	Article No.
SIPIX Service Plattform Services Remote Services for the SIPIX-SD/MO platform Remote Services: • Remote Service support during office hours Monday to Friday from 8:00 a.m. to 4:00 p.m. for 1 year. • The number of requests is limited to 1 remote service procedure. • 1 remote service procedure applies to 1 field device. • SIPIX service agreements: None • Service general conditions: A secure VPN channel can be used during remote service to support a service employee by remote access. Note Make sure that the necessary prerequisites for remote access by Siemens are available. Contact your Siemens sales office if this is not the case.	
Remote services for field devices – Reactive Services 1 • Reactive 1 (1 customer case)	**9LA1110-1PB00-0AA0**
Remote services for field devices – Reactive Services 5 • Reactive 5 (5 customer cases)	**9LA1110-1PC00-0AA0**
Digital Service Tool for the process industry SIPIX MO Windows 10 IoT, 8 GB RAM, 128 GB SSD, 2 MP/5 MP camera, WLAN • Scope of delivery: Docking station, shoulder strap • Configuration level: MO BASIC; Prepared for connection to cRSP remote platform	
SIPIX MO ZN • BT 4.0, IP65 approval: Non-hazardous area	**9LA1110-6AB00-0AB0**
SIPIX MO Z2 • BT 4.0, IP65, RFID HF-Reader internal, approval: ATEX Zone 2/22, IEC Ex Zone 2/22, UL Class I Div 2	**9LA1110-6AC00-0AB0**
SIPIX MO Z1 • BT 4.1, IP65, RFID HF-Reader internal, approval: ATEX Zone 1, IEC Ex Zone 1, UL Class I Div 1	**9LA1110-6AD00-0AB0**

	Article No.
Digital Service Tool for the process industry SIPIX SD Windows 10 IoT, 8 GB RAM, 128 GB SSD, 2 MP/5 MP camera, WLAN Scope of delivery: Hard shell case with insert, docking station, shoulder strap Configuration level: SD BASIC; Connection to cRSP remote service platform, secure remote access (IT security according to ISO 27001/CERT), SIPIX RC collaboration software pre-installed with AR features, secure file transfer without cloud caching during remote access, SIMATIC PDM pre-installed	
SIPIX SD ZN • BT 4.0, IP65 approval: Non-hazardous area	**9LA1110-6AF00-0AD0**
SIPIX SD Z2 • BT 4.0, IP65, RFID HF-Reader internal, approval: ATEX Zone 2/22, IEC Ex Zone 2/22, UL Class I Div 2	**9LA1110-6AG00-0AD0**
SIPIX SD Z1 • BT 4.1, IP65, RFID HF-Reader internal, approval: ATEX Zone 1, IEC Ex Zone 1, UL Class I Div 1	**9LA1110-6AH00-0AD0**
Digital Service Tool for the process industry SIPIX SD100 Windows 7 Prof, 8 GB RAM, 128 GB SSD, 2 MP/5 MP camera, WLAN, BT 4.0, IP65, LTE card (EU), 1D/2D imager approval: ATEX Zone 2/22, IEC Ex Zone 2/22, UL Class I Div 2 Scope of delivery: • Docking station, shoulder strap Configuration level: • Advanced PA • Pre-installed software for service of the field devices: • Supplied hardware: - Connection to cRSP Remote Service platform - SIMATIC PDM - Siwatools - Additional software for field device technologies • Supplied hardware: - Desktop docking station - 4G/LTE module (EU)	**9LA1110-6AE02-0AC0**
4G/LTE module (EU) SIPIX SD/MO For devices with general or ATEX II 3G/3D (Class I Div. 2) approval	**9LA1110-6AA00-1AA0**
4G/LTE module (USA) SIPIX SD/MO For devices with general or ATEX II 3G/3D (Class I Div. 2) approval	**9LA1110-6AA00-2AA0**
RFID UHF module SIPIX SD/MO For devices with general or ATEX II 3G/3D (Class I Div. 2) approval	**9LA1110-6AA00-3AA0**
Docking Station SIPIX SD/MO For devices with general or ATEX II 3G/3D (Class I Div.2) approval (use only in non-hazardous area)	**9LA1110-6AA00-4AA0**
Docking Station SIPIX SD/MO For devices with ATEX II 2G (Class I Div.1) approval (use only in non-hazardous area)	**9LA1110-6AA00-5AA0**

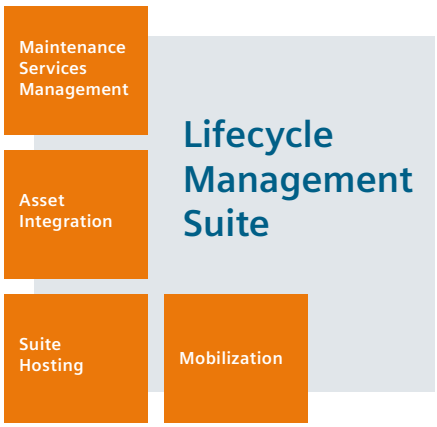
	Article No.
2-way battery charging station SIPIX MO/SD For charging 2 rechargeable batteries (Input voltage: 10 VDC ... 20 VDC (50 W); charging display via LED and buzzer, 2 connected charging stations can be supplied with one power supply unit	**9LA1110-6AA00-6AA0**
SIPIX SD/MO standard rechargeable battery For devices with ATEX II 3G/3D (Class I Div.2) approval; With lithium-polymer rechargeable battery 7.4 V/5 300 mAh (39.22 Wh), replaceable during operation Note The rechargeable battery must only be replaced outside of hazardous areas.	**9LA1110-6AA00-7AA0**
SIPIX SD/MO long life rechargeable battery For devices with ATEX II 3G/3D (Class I Div.2) approval; With lithium-polymer rechargeable battery 7.4 V/10 280 mAh (76.07 Wh), replaceable during operation Note The rechargeable battery must only be replaced outside of hazardous areas.	**9LA1110-6AA00-8AA0**
EPSON Moverio BT-300 augmented-reality data goggles Scope of delivery: • Headset • Controller • Charging adapter • USB cable • Light protector • Lens holder • Nose pads • Headphones • Carrying case	**9LA1110-6AA00-0BA0**
Shoulder strap for SIPIX SD/MO	**9LA1110-6AA00-2BA0**
Remote services for the SIPIX SD/MO platform Remote Services	
Service general conditions: A secure VPN channel can be used during remote service to support a service employee by remote access.	
Tool and operating services for the Siemens process industry Xpert service device (SIPIX SD100), Siemens remote service platform (cRSP), augmented collaboration software	**9LA1110-1PA00-0AA1**
SIPIX service agreements: Service Level Starter MO - 2 years	**9LA1110-1PA10-0AA0**
SIPIX service agreements: Service Level Starter SD - 2 years	**9LA1110-1PA20-0AA0**
SIPIX service agreements: Service Level Starter MO - 5 years	**9LA1110-1PA30-0AA0**

More information

More information is available online at:
http://www.siemens.com/siremote

Lifecycle Management Suite

Overview



The Lifecycle Management Suite optimizes plant maintenance with regard to the planning, execution and documentation of all service activities. The pre-configured, COMOS MRO-based system provides standard operating procedures (SOP) which are assigned to the SIMATIC PCS 7 system components already entered.

"Mobilization" module

In the "Mobilization" module, an initial setup is carried out for detailed information on the products and systems used, as well as their lifecycle status and the existing maintenance processes and plant documentation. The execution of this module is a prerequisite and therefore an integral component for all further configuration modules.

"Suite Hosting" module

This module contains the COMOS MRO Hosting – cloud-based or on-premises – with support and Software Update Service.

- Option: Integration of the SIPIX Service Tablet

"Asset Integration" module

In addition to the "Suite Hosting" module, this module includes the integration of the installed base (iBase), the maintained product master data, and the availability of obsolescence information.

- Option: Analyzer integration (Autom. Check points).
- Reports: Lifecycle Information Services | Trends

"Maintenance Services Management" module

In addition to the "Asset Integration" module, this module contains the integration of standard operation procedures for Lifecycle Services, for instance, service checkpoints that have to be performed regularly. Together with the imported project data and parts lists from SIMATIC PCS 7 installations, service work schedules can be automatically generated on this basis.

- Reports: Service SOP Reports | Trends

Benefits

- Pre-configured CMMS system with assets and service checkpoints entered
- Consistent data maintenance through integration in a data platform creates transparency and traceability
- Mobile data access on site with maintenance information and documentation in real time

Selection and ordering data

	Article No.
COMOS MRO software Use over cloud access for a period of 1 year. Administration of customer-specific software instances including software update and technical support/subscription cycle (Mon.-Fri. 8.00-17.00, CET), except public holidays. • 10 h technical support/subscription cycle • 1x floating license for 3 authorized named users within the EU • Mobilization Suite Hosting (remote) has to be ordered, see options.	**9LA1110-5CA00-0AA0**
With Asset Management functions • 15 h technical support/subscription cycle • 1x floating license for 3 authorized named users within the EU • 10x obsolescence Checks/ subscription cycle • Installed Base integration • Product Data-integration according to tech. options; in the first year, Mobilization must be ordered as an option for the module.	**9LA1110-5CA00-0BA0**
With Maintenance Management functions • 20 h technical support/ subscription cycle • 1x floating license for 3 authorized named users within the EU • Installed Base integration • Product Data integration • Product Data integration according to tech. options; in the first year, Mobilization must be ordered as an option for the module.	**9LA1110-5CA00-0CA0**
Product Data integration SIMATIC PCS 7 for SIMATIC PCS 7 ≥ V8.x Requirement: None Extension package for Suite Hosting	**9LA1110-5CC00-1AA0**
iBase integration SIMATIC PCS 7 (interface SAS DC) Requirement: Product Data integration SIMATIC PCS 7 is available. Extension package for Suite Hosting	**9LA1110-5CC00-1AB0**
Service Standards integration SIMATIC PCS 7 Requirement: Product Data integration SIMATIC PCS 7 Extension package for Asset integration	**9LA1110-5CA00-1AC0**
10x obsolescence checks Requirement: None Extension package for Suite Hosting and option for Maintenance Service Management	**9LA1110-5CA00-1AD0**
System Status integration (analyzer results) Requirement: Service Standards integration SIMATIC PCS 7 Option for Asset Integration and Maintenance Service Management	**9LA1110-5CA00-1AE0**
Mobilization "Suite Hosting" (remote)	**9LA1110-5CA00-1CA0**
Mobilization "Asset Integration" (remote)	**9LA1110-5CA00-1CB0**
Mobilization "Maintenance Services Management" (remote)	**9LA1110-5CA00-1CC0**

	Article No.
Additional 1 floating License COMOS MRO For 3 Authorized Named Users within the EU Expansion for Suite Hosting, Asset Integration, Maintenance Service Management	**9LA1110-5CA00-1BA0**
Additional 1 Authorized Named User For 1 existing floating license COMOS MRO user within the EU Expansion for Suite Hosting, Asset Integration, Maintenance Service Management	**9LA1110-5CA00-1BB0**
Additional 10-hour technical support/subscription cycle	**9LA1110-5CA00-1CD0**
Integration of COMOS Mobile Operations (1 Authorized Named User) within the EU Provision of an app for integration of a mobile device for on-site service personnel. This must be ordered separately for each additional user (USR). Extension package for Suite Hosting and Maintenance Service Management.	**9LA1110-5CA00-1MA0**

More information

More information is available online at:
http://www.siemens.com/lms

Inventory Baseline Services

Overview

It is essential to make the right decisions when planning modernizations or when budgeting for necessary maintenance measures. The basis for such decisions is an in-depth knowledge of the installed system base. This requires:

- Uniform and complete inclusion of all installed automation components
- Information collection using the least possible time and money.
- Documentation of results in standardized reports

With its Inventory Baseline Services, Siemens offers modern data-driven services that use new methods and tools to help you plan maintenance of machines and plants even more efficiently.

Making an inventory gives you an overview of the currently installed plant equipment and the spare parts in stock. The inventory results serve as a decision-making aid when planning future measures for maintenance and modernization.

Inventory Baseline Services offer transparency with regard to the installed automation components of machines and plants and provide the data for additional Lifecycle Services such as SIMATIC System Audit, Lifecycle Information Services and Asset Optimization Services.

Benefits

- Cost-efficient and standardized inventory of all of the installed automation components
- Valid decision-making aid for planned plant expansions, modernizations as well as for preparation for updates/upgrades
- Solid basis for planning and implementation of other Lifecycle Services

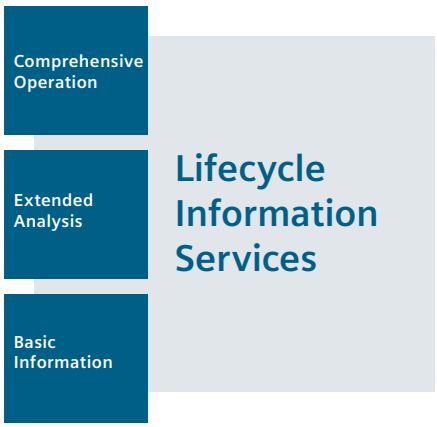
Selection and ordering data

	Article No.
Inventory Baseline Service for process instrumentation	
Complete service by headquarters only in Germany for devices for process instrumentation • Automatic collection of data • Onsite • Manual recording of unconfigured devices for process instrumentation • Adding manually recorded devices to the Inventory Tool • Data evaluation • Report creation • Adding the data to the Siemens database (GSP) • Consultation with the customer • Travel expenses are not included in the price	**9LA1110-8AJ00-1AB0**
• Provision of the data according to specifications in the manual • Evaluation of the collected data • Report creation • Saving data in the Siemens database (GSP) • Return of the report to the customer with discussion of the report • Travel expenses are not included in the price	**9LA1110-8AJ00-2AB0**

More information

More information is available online at:
http://www.siemens.com/ibs

Overview



For planning your maintenance strategy,
Lifecycle Information Services periodically provide you with detailed information on the product life cycle of the utilized components. The Lifecycle Information Services have a modular structure so that you need only request information that you actually require. Each of the following three methods returns a plant-specific report as result. You can decide for yourself how comprehensive you want this report to be.

Basic Information

Product Lifecycle Status focusing on analysis of functional obsolescence.

Extended Analysis

"Basic Information" module and analysis of product-related statistical mean time between failures (MTBF).

Comprehensive Operation

"Extended" module supplemented with plant-specific information on updates/upgrades and general recommendations.

Benefits

- Proactive, periodic service information for reduction of obsolescence risks
- Assurance of plant availability through specific service recommendations
- Prevention of unscheduled downtimes or cost-intensive supply bottlenecks
- Evaluation of new technological innovations

Selection and ordering data

	Article No.
Lifecycle Information Services Basic	
Based on data provided by the customer an analysis of the equipment is conducted. The result of the analysis is a report which includes: current delivery capacity, availability forecast, technical evaluation of results	
• ≤ 50 different products	
• Small systems	
- Single report	**9LA1110-8AG10-1AA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-1AB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-1AC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-1AD0**
• ≤ 150 different products	
• Medium systems	
- Single report	**9LA1110-8AG10-1BA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-1BB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-1BC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-1BD0**
• ≤ 300 different products	
• Large systems	
- Single report	**9LA1110-8AG10-1CA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-1CB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-1CC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-1CD0**
Lifecycle Information Services Extended	
Based on data provided by the customer an analysis of the equipment is conducted. The result of the analysis is a report which includes: current delivery capacity, availability forecast, MTBF analysis, technical evaluation of results	
• ≤ 50 different products	
• Small systems	
- Single report	**9LA1110-8AG10-2AA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-2AB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-2AC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-2AD0**
• ≤ 150 different products	
• Medium systems	
- Single report	**9LA1110-8AG10-2BA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-2BB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-2BC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-2BD0**
• ≤ 300 different products	
• Large systems	
- Single report	**9LA1110-8AG10-2CA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-2CB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-2CC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-2CD0**

	Article No.
Lifecycle Information Services Comprehensive	
Based on data provided by the customer an analysis of the equipment is conducted. The result of the analysis is a report which includes: current delivery capacity, availability forecast, MTBF analysis, service information, technical evaluation of results	
• ≤ 50 different products	
• Small systems	
- Single report	**9LA1110-8AG10-3AA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-3AB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-3AC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-3AD0**
• ≤ 150 different products	
• Medium systems	
- Single report	**9LA1110-8AG10-3BA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-3BB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-3BC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-3BD0**
• ≤ 300 different products	
• Large systems	
- Single report	**9LA1110-8AG10-3CA0**
- Cyclic report, annual [1]	**9LA1110-8AG10-3CB0**
- Cyclic report, semi-annual [1]	**9LA1110-8AG10-3CC0**
- Cyclic report, quarterly [1]	**9LA1110-8AG10-3CD0**
Lifecycle Information Services Time Extension	**9LA1110-8AG10-8AA0**
Extension package for large systems (> 300 different products), plus 1 day for technical evaluation and recommendations	

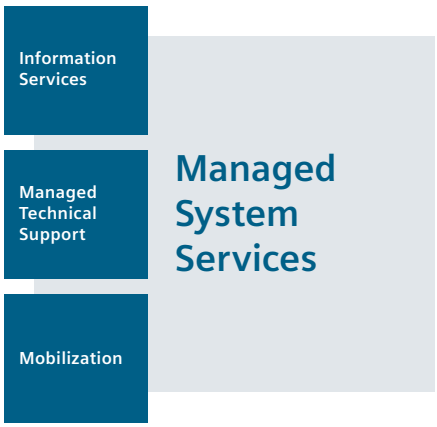
[1] The contract is automatically extended for one more year unless it is canceled three months before expiration

More information

More information is available online at:
http://www.siemens.com/lis

9

Overview



Managed System Services offer competent and efficient support through a dedicated support manager. This central contact person ensures an efficient exchange of information between all parties involved. The "Dedicated Support Manager" brings together, coordinates and prioritizes all activities, is familiar with the customer's plant, knows the maintenance processes and the installed base and, if necessary, uses remote access for diagnostics and troubleshooting purposes.

Benefits

- Quicker processing and resolution of complex support requests
- Simplification of requests by means of central coordination and an exclusive "incoming" channel
- Higher "first-time-fix-rate"
- Avoidance of expensive on-site service calls
- Greater transparency through active support management and regular status reports

Selection and ordering data

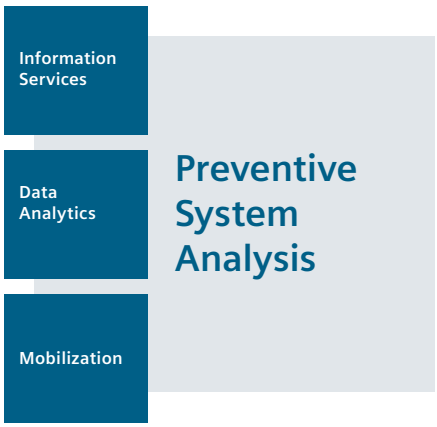
	Article No.
Managed System Services Extention Expansion of an existing Managed System Services contract by additional hours for the technical processing of service requests and coordination by the support manager. • Limited to 25 hours of support. • Subscription cycle, number of reports and access to online information system remain unchanged according to the Managed System Services package.	**9LA1110-1BL00**

More information

More information is available online at:
http://www.siemens.com/mss

Preventive System Analysis

Overview



Preventive System Analysis identifies potential system risks and displays the plant situation transparently. Special software tools record extensive diagnostics data and system information which are in turn analyzed using algorithms. Professional evaluation of the results by our experts round off your SIMATIC PCS 7 system assessment. Regular evaluation of the system state, data-based inspections and automated weak-point analysis ensure optimal maintenance and avoid unplanned plant downtimes.

Benefits

- Fast data acquisition
- Intensive data analysis
- Transparent reporting

More information

More information is available online at:
http://www.siemens.com/psa

Overview

High plant availability with optimal spare parts supply - Asset Optimization Services provide a structured and systematic procedure for the holistic optimization of the supply of spare parts. The 4 phases of Asset Optimization Services are coordinated with one other but can also be used independently.

Phase I: Analysis

Determination of the current spare parts situation on site: availability, product life cycle, spare part delivery times

Phase II: Concept

The concept phase consists of an analysis of the actual requirements and the development of a spare parts concept.

Phase III: Implementation

Based on the results of the concept phase, the required warehouse structures, storage locations and spare parts are set up.

Phase IV: Operation

The optimized and continuous supply of spare parts is an essential contribution to high plant availability. Depending on the specific contractual agreements, cyclic inventory analysis and a regular exchange of information also take place.

Benefits

- Creates transparency about the actual spare parts requirements
- Ensures spare parts availability over the entire life cycle of the machine or plant and therefore fulfills an important prerequisite for improved serviceability
- Shift to external inventory keeping and continuous supply with necessary spare parts

Selection and ordering data

	Article No.
Asset Optimization Services Analysis (max. 100 article numbers) Based on the customer data provided, an analysis and a comparison between the plant and warehouse inventory. This includes the availability and the product lifecycle with discontinuations and delivery times of the respective products. The result of the analysis is a standardized, product-oriented report that is very important for warehouse optimization and maintenance.	**9LA1110-8AE10-1AA0**
Asset Optimization Services Concept (max. 3 days) Based on the results of the analysis phase, a detailed optimization plan is developed in collaboration with the customer. A risk assessment of the components can be performed in consultation with the customer. With this concept, optimized target stock can be determined. Identification of surplus stock and lack of spare parts. Recommendations for the next steps are given.	**9LA1110-8AE10-2AA0**
Asset Optimization Services implementation (for operation) Based on results of concept phase 9LA1110-8AE10-2AA0 and an individual quotation, optimization measures are implemented in a defined time frame. Objective: Create the basis for the Asset Optimization Services Operation.	**9LA1110-8AE10-3AA0**
Asset Optimization Services Operation spare parts supply Provision of a defined spare parts package based on an individual customer quotation. The spare parts are owned by Siemens. Service content is the supply of components in a defined delivery time and place of delivery for an agreed period of time. Cyclic and standardized analysis of the inventory to take into account the product life cycle.	**9LA1110-8AE10-4AA0**
Asset Optimization Services Operation spare parts management Management of a defined spare parts package based on an individual customer quotation. The spare parts are owned by the customer. Service content is the supply of components in a defined delivery time and place of delivery for an agreed period of time. Cyclic and standardized analysis of the inventory to take into account the product life cycle.	**9LA1110-8AE10-4BA0**
Asset Optimization Services Time Extension An additional 500 article numbers for the analysis of extensive stocks with more than 100 different article numbers can be ordered in packages of 500 article numbers.	**9LA1110-8AE10-8AA0**

Asset Optimization Services

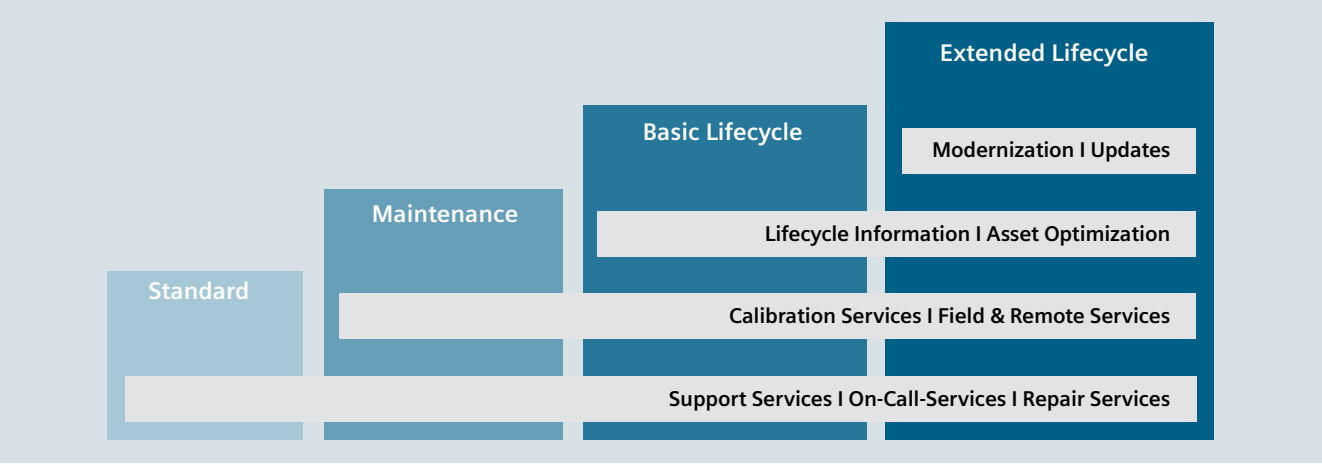
	Article No.
Asset Optimization Services Time Extension An additional 1 day for analysis and planning; This option can be ordered for a number of days, for example, for extensive planning (> 3 days) and on-site presentation of the analysis results.	**9LA1110-8AE10-8BA0**

More information

More information is available online at:
http://www.siemens.com/aos

Overview

The service elements introduced in the preceding sections form the basis for customized SIMATIC PCS 7 Lifecycle Service Contracts. Additional specific contract parameters, so-called service KPIs (e.g. terms of payment) can be agreed upon individually. A prerequisite for entering into a Lifecycle Service Contract is detailed information on the installed system base.



Typical characteristics of a Lifecycle Service Contract are:

- Standard - mainly contains reactive service elements, such as technical support, on-call or even repair services
- Maintenance - includes the "Standard" profile with added services such as preventive inspection and maintenance
- Basic Lifecycle - includes the "Maintenance" profile with added Lifecycle Information Services and Asset Optimization Services
- Extended Lifecycle - includes the "Basic Lifecycle" profile with added comprehensive modernizations as well as updates and upgrades

Long-term investment protection with predictable costs

A reactive service concept increases the risk of obsolescence – operating expenses and unplanned standstills can fluctuate and are hard to predict. The investment pressure increases until an upgrade becomes necessary. Long-term maintenance planning is extremely difficult, the risks are difficult to assess and the overall costs cannot be clearly calculated.

With a proactive service concept, however, the management of obsolescence risks and modernizations can be planned consistently. The continuous maintenance of the plant keeps the obsolescence risk low; the optimized costs for maintenance and modernization (OPEX) are mostly consistent and therefore predictable.

Lifecycle Service Contracts

Benefits

- Long-term investment protection
- Planning capability for modernization and maintenance costs at the time of the investment across the entire lifetime of up to 15 years (TCO - Total Cost of Ownership)
- Increased plant availability, for example, through guaranteed arrival times for service, secured spare part supply and preventive maintenance measures
- Ensure service capability through active obsolescence management for hardware and software components
- Securing system manufacturer know-how
- Professional project management from a single source for the entire subscription cycle

More information

More information is available online at:
https://new.siemens.com/us/en/products/services/industry/preventive-maintenance/service-programs-and-agreements.html