



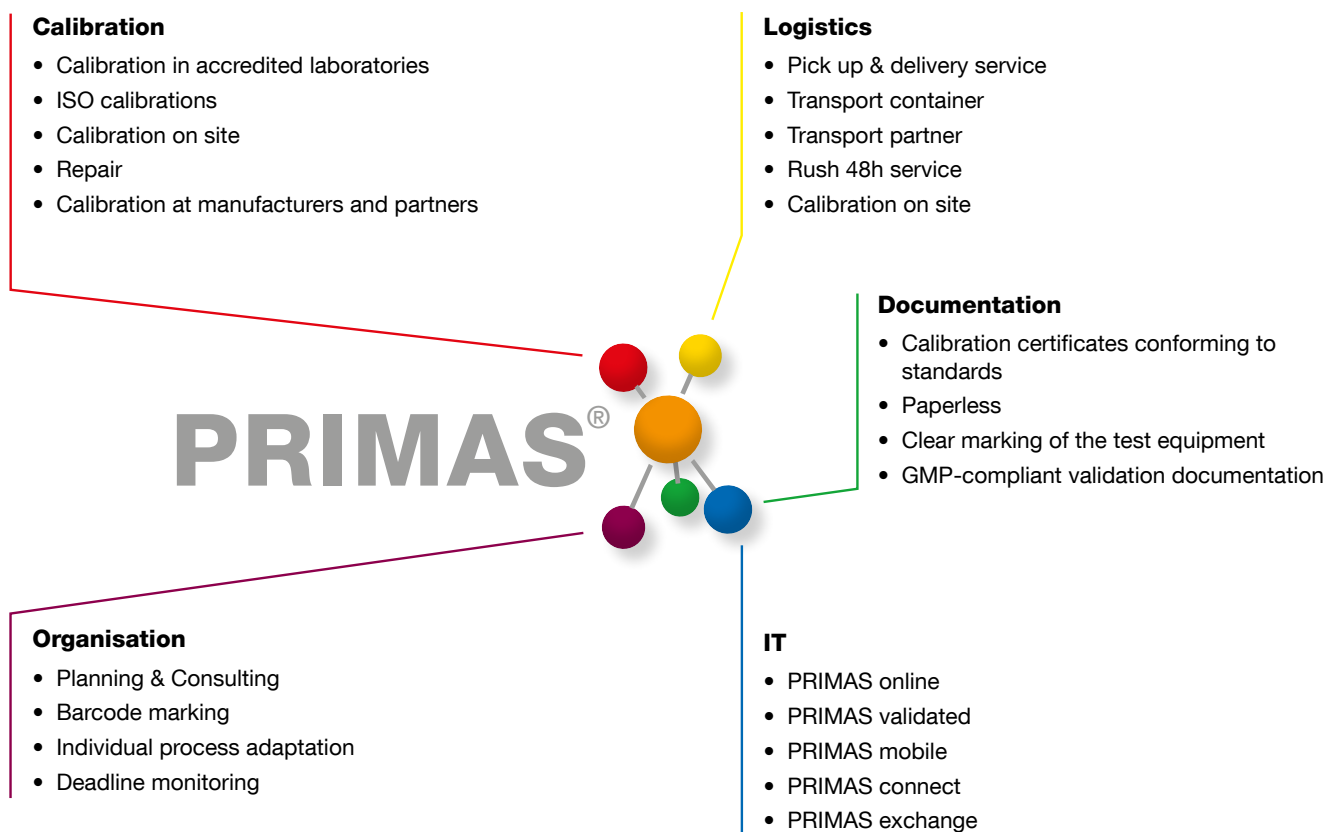
PRIMAS – IT Solutions for your Test Equipment Management

PRIMAS – Our holistic equipment management system

Modular design for individual requirements

The external assignment of test equipment management is a matter of trust. With the Test Equipment Management System from Testo Industrial Services you are on the safe side - PRIMAS offers you a holistic solution, because it is based on partnership between customers, Testo Industrial Services, suppliers and logistics partners.

In PRIMAS, calibration and documentation management intertwine. The integration of our logistics concept as well as an easier organisation by means of various IT solutions complete the offer. They guarantee you regular calibration of your test equipment and a high quality standard - which form the core of any test equipment management system.



The PRIMAS IT module includes our IT solution for your test equipment management. Depending on customer requirements, PRIMAS offers web-based and/or mobile access to various test equipment data, data exchange via VDI/VDE 2623 between your specific MES/CAQ system and your calibration service provider, various web services for fully automated information retrieval, and a validated test equipment solution for companies with GMP compliance requirements.

More info about equipment management with PRIMAS:
www.testotis.com/test-equipment-management-primas



PRIMAS IT-Solutions

Everything at a glance

PRIMAS online and mobile

Ensures access to your test equipment data via the Internet - location and time independent without additional software installation. Using a mobile device, all test equipment data and calibration certificates can be called up directly at the place of use by means of a scan function.

Added values:

- Quick and targeted location of your test equipment
- Effective work through multiple changes
- Individual setting options
- Mobile access to the master data and certificates of the scanned test



PRIMAS connect

Allows automated access directly from customer systems/ applications to test equipment data in Testo Industrial Services' SAP system - even for users who are not registered with PRIMAS online.

Added values:

- Immediate access via web service
- Fast access without prior login
- Simple and direct integration into existing customer systems
- Current data available at any time in your process



PRIMAS validated

Is a validatable, Internet-based system for managing test equipment for companies with GxP compliance requirements in the medical technology and pharmaceutical sectors.

Added values:

- Maximum security & integrity of your test equipment data
- Optimised and efficient equipment management process
- Risk-based validation service



PRIMAS exchange

Enables simple, automated data exchange according to VDI/VDE 2623 between customer-specific MES/CAQ systems and the calibration

Added values:

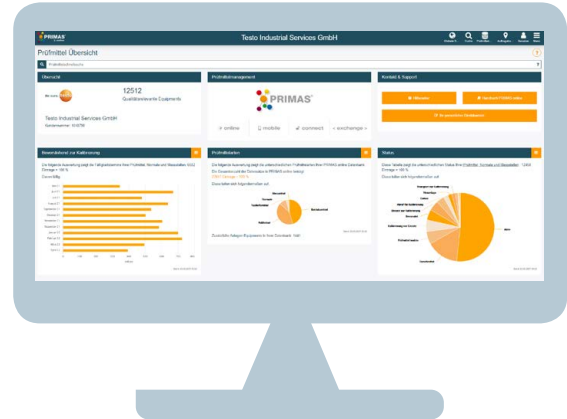
- No manual updating effort in the customer system
- Calibration results can be supplied as raw measurement data
- Time savings of 5-10 minutes per certificate



PRIMAS online

Internet-based equipment management

PRIMAS online allows you to access your test equipment data via the Internet - independent of location and time without additional software installation. You can retrieve, change or create data via the internet browser at any time. You can to select different languages and access the same data world-wide. Each calibration certificate is also available as a PDF by default. The possibility of individual field names allows you to integrate your company language into PRIMAS online.



One system, multiple functionalities

Test equipment status at a glance

Keep track of the due dates of your test equipment and plan your calibrations in good time. You can set the calibration interval manually.

Help Center

Get valuable tips for working with PRIMAS online in the help center. Numerous explanatory videos and help files provide an overview of the functionalities and make it easier for you to use PRIMAS online in your day-to-day work.

Evaluations

The Evaluation function allows you to create comprehensive evaluations and send them automatically.

Versatile applicable

Manage your test equipment - independent of the calibration service provider - in one system. Updating the central master data enables the addition of, for example, images, specifications or data sheets.

Search function

With the direct search via the search function, you can speed up your search without having to switch to the search mask first.

Individual permissions

Assign write, read or certificate access rights to your employees and thus define their areas responsibility. The individual definition of escalation levels ensures the timely calibration of your test equipment.

Delivery note generator with scan function

Generate a delivery note directly in PRIMAS online and send it together with your test equipment to your calibration "Lower case" service provider. With PRIMAS mobile, you can scan your test equipment directly at the point of use via smartphone.

Order tracking

Find out online about the current processing status of your test equipment. The tracking function in PRIMAS online accesses the already existing SAP bookings and visualise them on equipment / or order level.

Multiple change (Quick edit)

The multiple change function allows you to edit the displayed number of pieces of equipment within one view from the test equipment results list without any additional actions.

More info about PRIMAS online and PRIMAS mobile:

www.testotis.com/primas-online



PRIMAS mobile

The smart solution for on the go

PRIMAS mobile is an extension of PRIMAS online and allows you access via mobile device. Test equipment can be scanned directly at the point of use to call up existing data (e.g. recalibration date, certificate, master data). Any anomalies can be immediately stored on the digital notepad of the test equipment concerned and later processed conveniently on the PC.

New functions with added value

Mobile access

PRIMAS mobile fits in every pocket. With PRIMAS mobile, access is possible from any mobile device - a useful, clear and handy solution for on the go. Benefit from the synchronisation between your mobile device and your PRIMAS online desktop version.

Synchronization mobile with desktop

All data captured with the mobile device is automatically synchronised and can be conveniently processed on the PC.

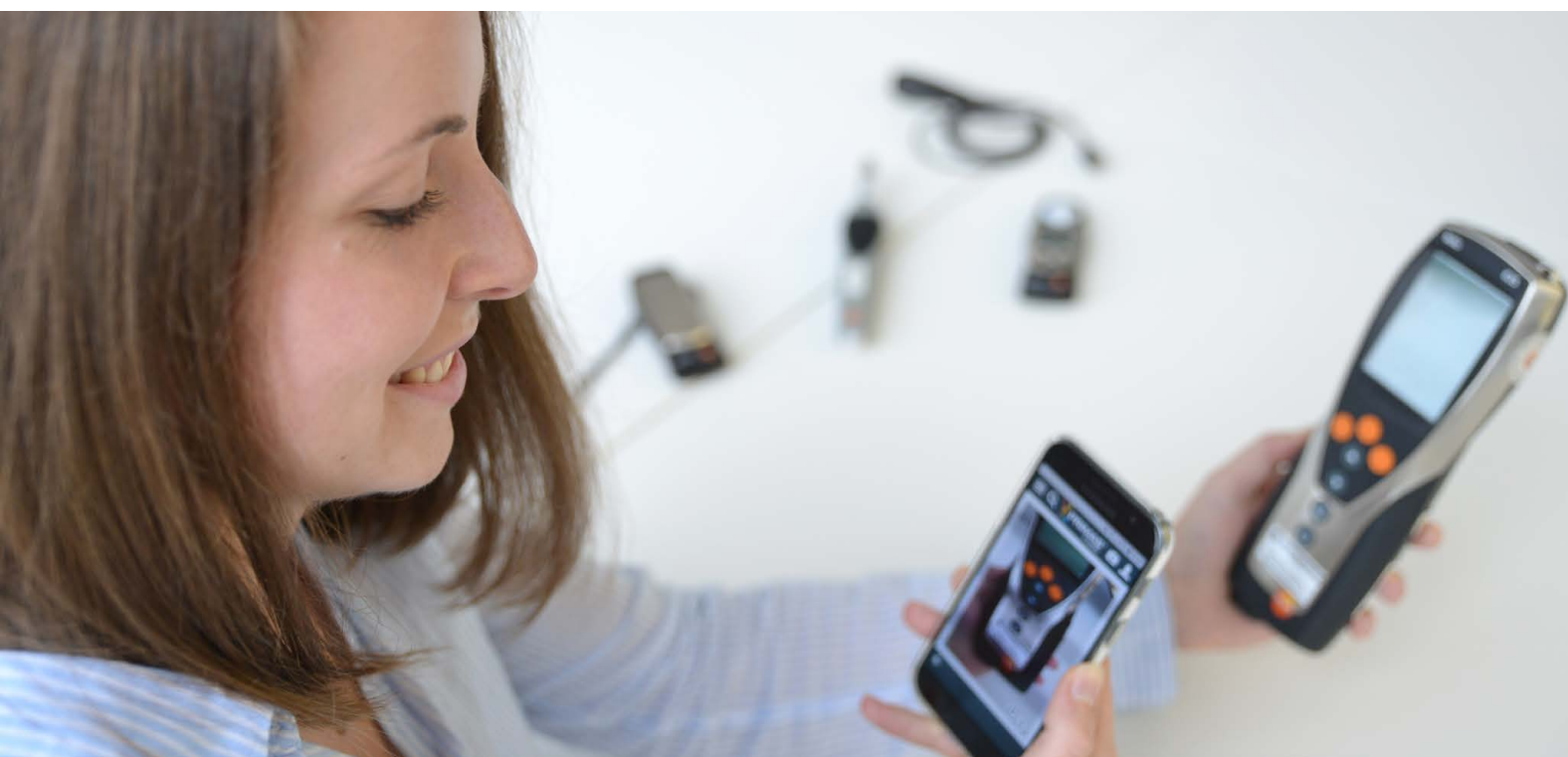


Save time

Using the scan function, test equipment can be scanned directly at the point of use using a mobile device in order to call up stored test equipment data. This function is thus a practical alternative to searching for test equipment in existing data-bases.

No loss of information

Don't wait until you are back at work. Use the digital notepad to record any anomalies or information directly at the location of the testing device concerned.



PRIMAS validated

GMP-compliant test equipment management system

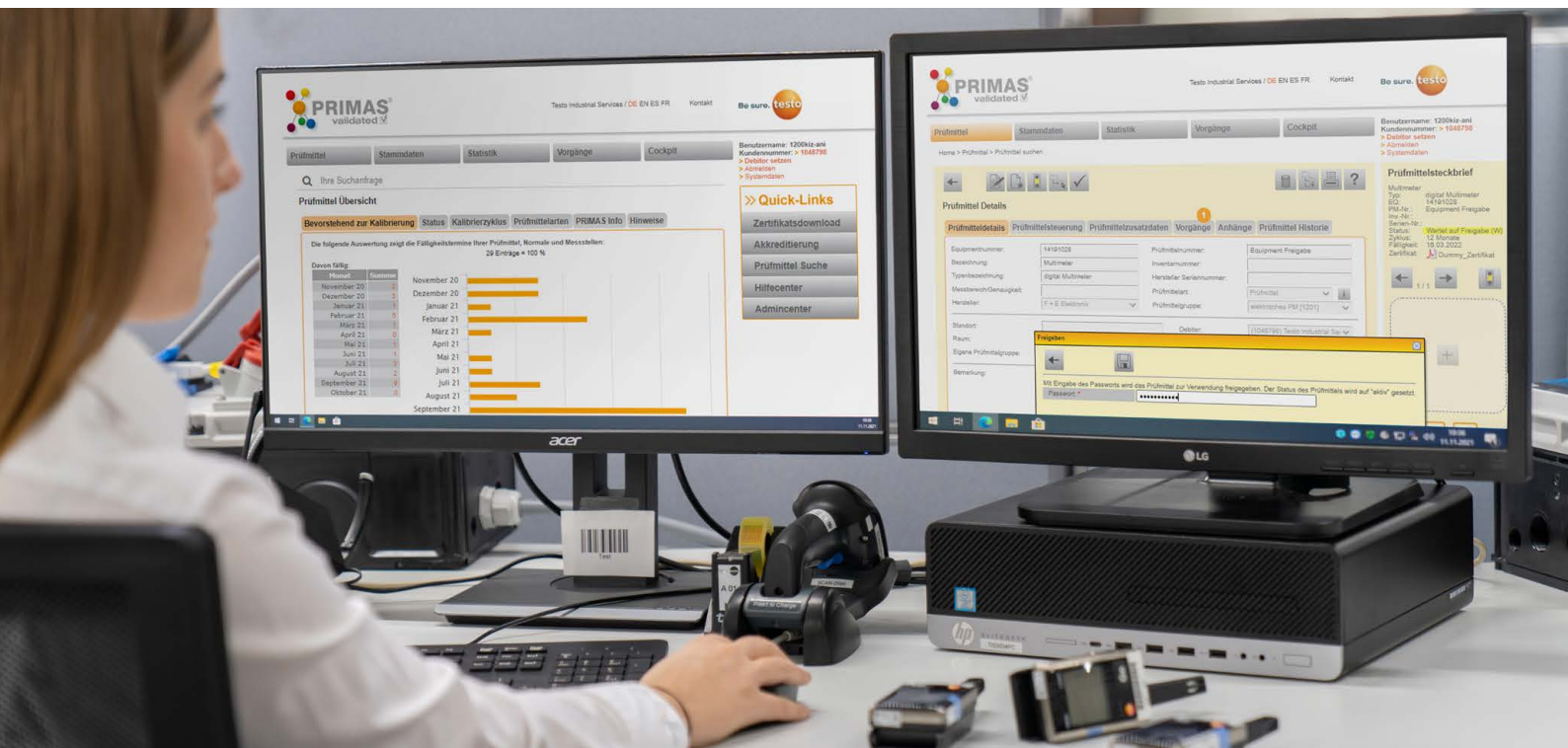


With PRIMAS validated you manage your test equipment safely and efficiently in a validated test equipment management system - this is fundamental requirement in in GMP-regulated areas. This IT solution is available to you as a module of the equipment management solution PRIMAS and was explicitly designed to meet the requirements of the GxP-regulated environment for equipment management. Above all, requirements for data security and data integrity as well as a validated environment were adapted.

In GMP-regulated areas, there are validation requirements for test equipment management systems throughout the entire system life cycle. The validation of these systems is specified by various standards and regulations, z. E.g. in DIN EN 13485:2016, 21 CFR 820.70 or Annex 11 of the EU GMP Guide. For the validation of the test equipment management system PRIMAS validated we offer you a standard-compliant validation package according to the specifications of ISPE GAMP® 5.

Your advantages at a glance:

- ✓ Maximum security and integrity of your test equipment data
- ✓ Optimised and efficient equipment management processes
- ✓ Risk-based validation service
- ✓ Consideration of normative requirements





One system - many advantages

Compliance & Audit Security

PRIMAS validated fulfils the relevant normative requirements for test equipment monitoring and management from DIN EN ISO 13485:2016, 21 CFR 820.72 and ISO 9001. The GMP-compliant validation package includes a compliance assessment to EU GMP Guideline Annex 11 and 21CFR Part 11.

Data Integrity & Data Security

Extensive security measures ensure a high level of data security and data integrity. Data is stored on Testo Industrial Services' own servers in Germany and an authorisation concept tailored to your requirements are just two examples.

Process Optimisation & Administration

Take advantage of our full-service offer for manufacturer-independent calibration of all your test equipment/measuring points. Automated and paperless processes in test equipment management increase the efficiency of your workflows. We take over the administrative tasks and thus facilitate the daily work in your equipment management.

Risk-based validation

Field-proven validation and revalidation services ensure the validated state throughout the entire system life cycle and guarantee you maximum security in the event of an audit. The validation is professionally supported by our industry-experienced validation team with GxP-compliant documentation and comprehensive know-how.



More info about PRIMAS validated:
www.testotis.com/primas-validated



PRIMAS connect

The web service for automated access



PRIMAS connect is a web service that provides automated access to PRIMAS online or to all PRIMAS online data in the data system of Testo Industrial Services GmbH.

Identification/authentication takes place via a customer-specific token that enables automated access without prior registration with PRIMAS online. Through this so-called Web API, both master data and the latest certificates can be retrieved. Via PRIMAS connect, calls (hyperlinks) from customer systems/applications or documents are also possible. The master data is returned in machine-readable VDI format as XML or as JSON.



More info about PRIMAS connect:
www.testotis.com/primas-connect



Typical application examples

Automated status query - before the start of a production line

Before an employee starts a production line, the availability of the respective test equipment must be checked. Only after a successful check of the status and due date of the test equipment will the system will be released. For this purpose, the employee identifies himself at the system with his personal ID card. During this login process, web service requests are sent in the background via PRIMAS connect, which query the status and the current due date of the assigned test equipment.

Calling up the last calibration certificate - for representation in a test specification

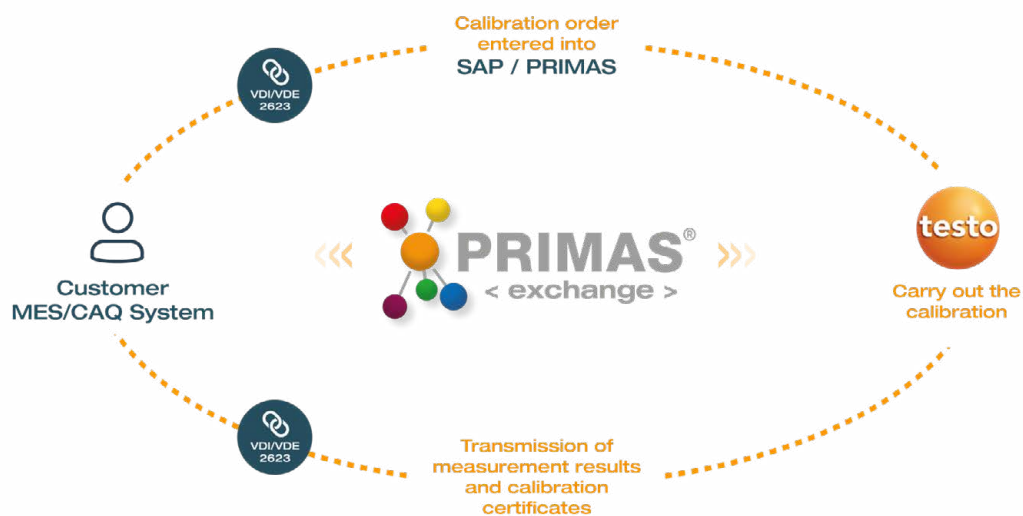
In a regulation for the testing of product properties at one of our customers, it is necessary that the test equipment used for the test steps employed has a valid calibration certificate in each case. By clicking on the corresponding link in the customer's test specification, the last calibration certificate is called up and displayed in a window for inspection. If the document is missing, appropriate measures can be defined within the test specification.

PRIMAS exchange

Data exchange via VDI/VDE 2623



PRIMAS exchange enables easy, automated data exchange via VDI/VDE 2623 between your specific MES/CAQ system and your calibration service provider. The test equipment data required for calibration is transferred to Testo Industrial Services via an individual interface. After calibration, the updated test equipment data including the calibration data and the calibration certificate are automatically returned to you. This keeps your specific MES/CAQ system up to date without manual effort in updating.



Fully automatic data transmission

- ✓ No manual effort in updating
- ✓ Transmission according to current VDI/VDE in XML format
- ✓ Calibration results can be retrieved as raw measurement data
- ✓ Possibility of further processing of individual measured values, e.g. for trend analysis
- ✓ Continuous updating also through collaboration in the VDI working group

A selection of CAQ partners



Other CAQ systems on request

More info about PRIMAS exchange:
www.testotis.com/primas-exchange





REFERENCE

Implementation of PRIMAS online at Henke-Sass, Wolf GmbH

The large number of test equipment pieces and the international orientation of Henke-Sass, Wolf GmbH require a comprehensive test equipment management system that provides organisational support for the calibration processes. The aim of the project was therefore to cover the entire process with a equipment management solution - from equipment management and calibration to organisation and documentation. The transport of the test equipment to the calibration laboratory and then to Tuttlingen should also be the responsibility of the service provider. With PRIMAS online, Testo Industrial Services was able to meet these requirements.

Services of Testo Industrial Services GmbH

- Introduction and establishment of the equipment management system PRIMAS online
 - Mapping of the Group structure and organisation of the Test equipment data at site level (USA, China, Poland)
 - Automatic reminder of the calibration due date of the test equipment
- Calibration of testing and measuring equipment in accredited laboratories
- Calibration of some measuring points in Tuttlingen on site
- Pick up and delivery service



PRIMAS - our passion

We introduce ourselves

Thomas Richter (Team Leader PRIMAS)

"Continuous optimisation is my intention."

Thomas Richter is a true veteran at Testo Industrial Services. Already when the company was founded in 1999, he enriched the team with his competence in technical field service. Through close contact with customers and various on-site experiences, he developed a passion for the subject of test equipment management. With a lot of know-how, he founded the PRIMAS online portal in 2004, among others. Today, he leads the 6-member PRIMAS team.

Stefan Hugle (Project Manager PRIMAS exchange)

Stefan Hugle is the expert for PRIMAS exchange. He has been involved in the implementation and further development of automated data exchange between calibration service providers and the customer's CAQ system for many years and is also a member of the VDI/VDE 2623 working group.

Stephanie Rokoschoski (Customer Service PRIMAS online)

Stephanie Rokoschoski has been working at Testo Industrial Services since 2001. With her many years of experience and extensive know-how, she supports our customers in all matters relating to PRIMAS.

Damaris Bergmann (Project Manager PRIMAS)

Since the end of 2020 Damaris Bergmann is part of the PRIMAS team and responsible for the implementation of new PRIMAS online customers. During her dual industrial engineering studies at Testo Industrial Services, she was already involved in the topic of test equipment management.

Anja Böhler (Project Manager PRIMAS online)

Since the end of 2017, Anja Böhler is part of the PRIMAS team and responsible for the implementation of new PRIMAS online customers as well as the execution of internal development and improvement projects. In addition to past projects, such as order tracking, evaluations, and the report generator, she is already working on many other ideas to further develop PRIMAS online. As a result, it creates real added value for our customers in the calibration process.

Anika Zart (Project Manager PRIMAS validated)

For PRIMAS validated topics Anika Helmle is your first contact person. She has been part of the company since 2015 and started with a dual study program in industrial engineering. Today, as project manager, she is responsible for the initial installation of our validatable equipment management system PRIMAS validated at our customers, as well as for the change-over from PRIMAS online to PRIMAS validated.



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