ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

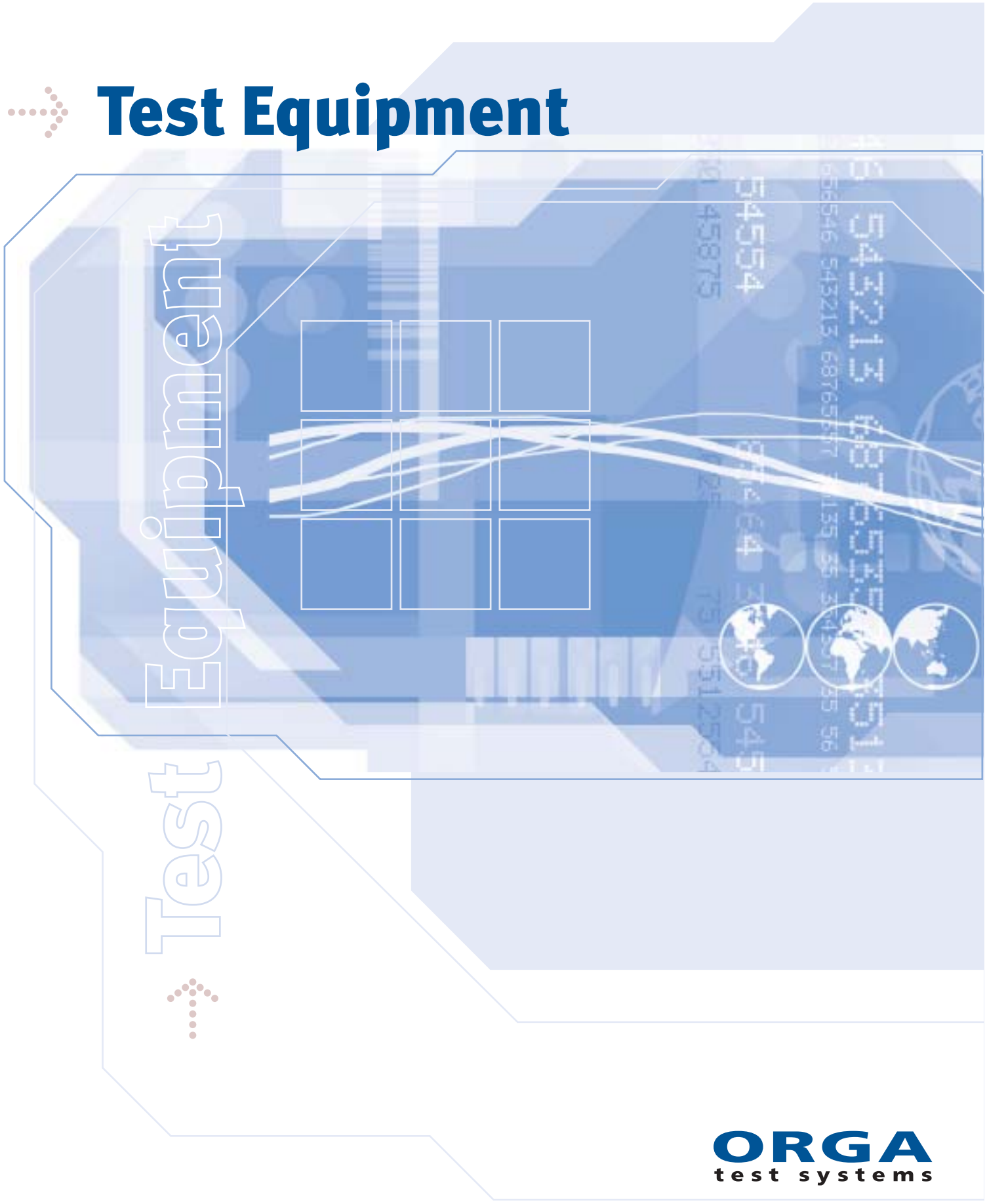
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Comprion / Orga Test Systems IT3-DMB* at our website: ***Click HERE***

Test Equipment



ORGA
test systems

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

TESTABILITY FROM ORGA TEST SYSTEMS LET'S TEST IT ALL



Testability with ORGA Test Systems means testing (U)SIM interfaces across the entire product development and production chain – from the very first technological spark of an idea for a new product "mobile phone" all the way through to rollout.

ORGA Test Systems offers world-class solutions in all four areas of the product development and production chain:

DEVELOPMENT TESTING

R&D is the first stage for any new product, and the solutions offered by ORGA Test Systems ensure that all critical elements are properly tested – from the very outset.

CONFORMANCE TESTING

Of particular interest to handset vendors who want to ensure that type approval is obtained first time, every time.

INTEROPERABILITY TESTING

Do components interact properly? Is the communication complete? How to improve component cooperation? That's what interoperability testing aims to find out.

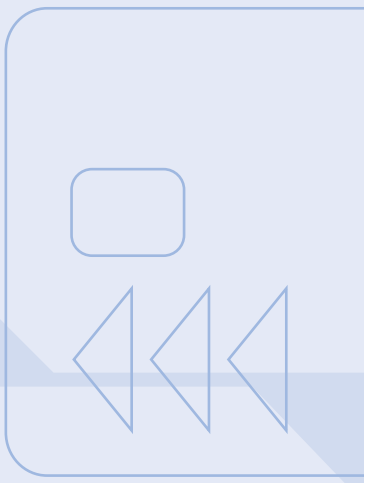
MANUFACTURING TESTING

For handset vendors and production sites, a quick operating test for product rollout testing.

WELL TESTED IN ALL AREAS

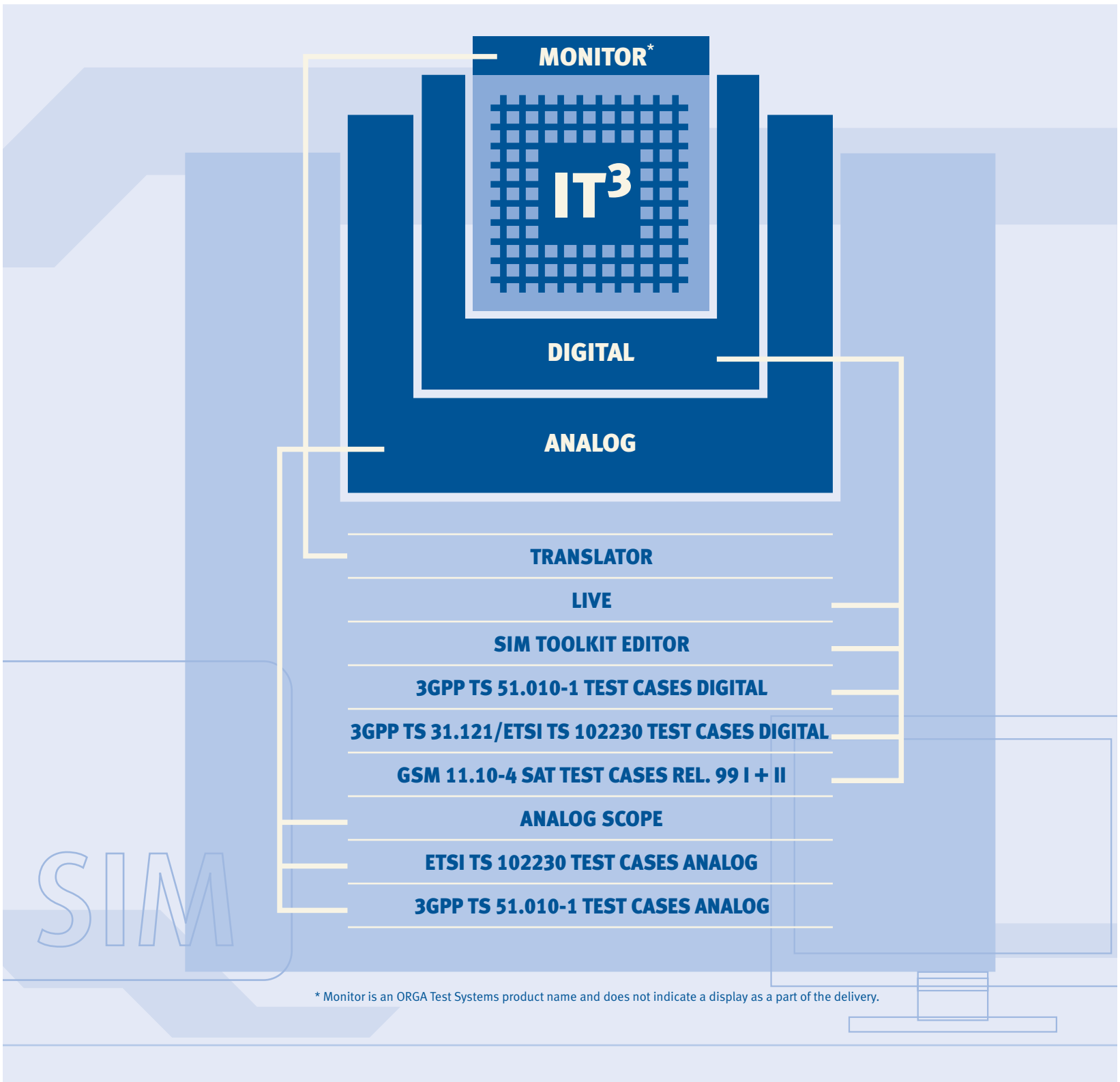
ORGA Test Systems' products are the only SIM/USIM interface test equipment based on ETSI/3GPP standards with GCF and PTCRB validated test cases. We know what the standards demand – and our test systems ensure that your products conform.

ORGA Test Systems' products have been successfully used by leading handset vendors and test labs all over the world for the past 10 years. Our proximity to the market means we know what our customers want and need – and that's exactly what we offer. Successful, reliable, conformant, tried-and-trusted test solutions. Testability.



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

THE PLATFORM
ARCHITECTURE



* Monitor is an ORGA Test Systems product name and does not indicate a display as a part of the delivery.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

TESTABILITY
ACROSS THE BOARD

	THE GOAL	THE PARTICIPANTS	THE APPROACH	THE USERS' REQUIREMENTS
DEVELOPMENT TESTING	Early discovery of weak points in hardware and software	Handset vendors/ development sites Handset component suppliers	Testing before and during prototyping according to ETSI/3GPP standards Software implementation testing Pre-conformance testing	Flexible test equipment Intuitive GUI Identical equipment as used during type approval Analog and digital test equipment Local support
CONFORMANCE TESTING	Achieving type approval	Test labs Handset vendors/ quality management sites Network operators	Using test tools equipped with test schemes validated by GCF and PTCRB	Validated test equipment Reliable system Intuitive GUI
INTEROPERABILITY TESTING	Ensuring the correct interoperability between two or more components of the "mobile communication" product	Handset vendors GSM and 3G network operators Software houses Service providers Smart card vendors	Investigating activities between the different technology components Analysing any problems that may occur in lab environment as well as in real network test	Monitoring of events Investigating and measuring the interaction Easy information exchange Intuitive GUI
MANUFACTURING TESTING	Product rollout testing	Handset vendors/ production sites Handset Repair companies	Random sample test	Quick operating test

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FUNCTIONS

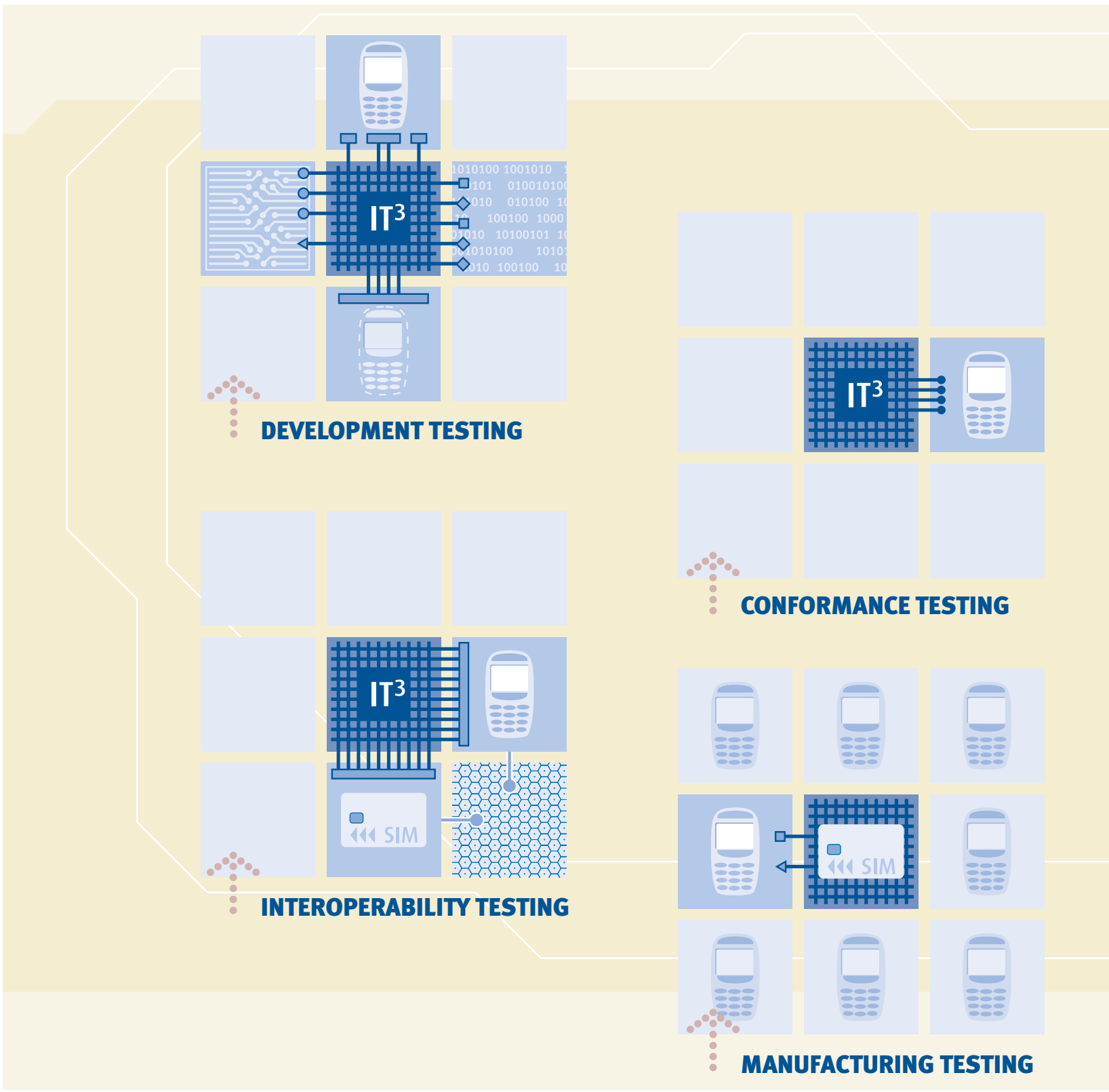
	GSM	UMTS/W-CDMA	CDMA
Monitoring of transmission protocol between ME and SIM (logical, APDU and application level)		●	
Comprehensive logical simulation of a smart card		●	
Adjustment of T=0 and T=1 protocol parameters		●	
Error simulation		●	
Adjustment of analog electrical signal parameters		●	
GSM SIM simulation and 3GPP UICC/USIM simulation		●	
Support of 1.8 V smart card simulation		●	
Full support of SIM Application Toolkit		●	
Testing in live network		●	
Analog Scope		●	
Monitoring of transmission protocol between ME and SIM (logical, APDU and application level)	●	●	
Complete integration of test scenarios for protocol, application and electrical testing for GSM and 3G terminals	●	●	
Validated SIM, UICC/USIM and SIM Application Toolkit test cases	●	●	
Test automation through batch processing and remote control interface	●	●	
Official test tool for GCF and PTCRB type approval testing	●	●	
Validated by an independent test house	●	●	
Automatic test report created	●	●	
Monitoring of transmission protocol between ME and SIM (logical, APDU and application level)		●	
Support of 1.8 V smart card interface		●	
Translation and graphical visualisation of GSM, 3GPP and CDMA2000 applications		●	
Translation and graphical visualisation of SIM Application Toolkit + USIM Application Toolkit		●	
Long recording times up to many hours		●	
Terminal and smart card not influenced during monitoring		●	
Programmable filters to localise malfunctions at terminal or smart card		●	
Platform and translators developed according to ETSI Standards and validated by an independent test house		●	
Test (U)SIM with XOR	●		

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

IT³ PLATFORM			SMART CARD	
MONITOR	DIGITAL	ANALOG	TEST (U)SIM	
⊙				
	⊙			
	⊙			
	⊙			
		⊙		
	⊙	⊙		
	⊙	⊙		
⊙	⊙			
⊙	⊙			
		⊙		
⊙				
	⊙	⊙		
	⊙	⊙		
	⊙	⊙		
	⊙	⊙		
	⊙	⊙		
	⊙	⊙		
⊙				
⊙				
⊙				
⊙				
⊙				
⊙				
⊙				
⊙				
⊙				
			⊙	
	⊙			Smart card simulation with T=0 and T=1 in accordance with ISO/IEC 7816-3
	⊙			Setting protocol parameters
		⊙		Adjustment of electrical parameters
		⊙		Accurate simulation of all electrical signals
		⊙		Manipulation of electrical behaviour
⊙				Analysis of protocols T=0 and T=1
⊙	⊙	⊙		Support of voltage classes 1,8V, 3V and 5V
⊙				Monitoring transmission protocol between ME and SIM
⊙				Timing analysis of transmitted signals
⊙				Timing measurement resolution: 20 ns
⊙				Timing measurement in ETU and seconds
		⊙		Measurement of electrical signals
⊙	⊙			Support of enhanced speed up to 19 clock cycles per ETU
	⊙	⊙		Error simulation (digital/analog)
⊙				Translation of application specific data for GSM, UMTS, CDMA
	⊙			SAT editor
⊙				Monitoring in live network
		⊙		Analog scope

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

TESTABILITY FROM
ORGA TEST SYSTEMS
LET'S TEST IT ALL



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WELL TRAINED
IN ALL AREAS

Training is a key requirement in any field, so of course it forms part of our installation package. Whenever, wherever you buy our product we offer customised training – at your site or in our head office. Participants in our training sessions find that prior basic knowledge of GSM and/or 3G technology is beneficial. If you need basic technology education in addition to our specialist, product-based training our team of trainers would be happy to help.

PRODUCT TRAINING	DURATION*	PARTICIPANTS
IT³ Monitor	½ day	Quality engineers, USIM/SIM qualification engineers
IT³ Digital simulator	1½ days	Baseband developers, USIM/SIM interface developers
SAT Editor	½ day	Technicians, software developers
IT³ Analog simulator	½ day	Hardware developers, conformance engineers

Our training sessions comprise both dialogue and workshop elements. Individual agendas can be prepared according to the participant's own personal experience level. All participants are provided with training notes as a printout and/or a CD. All training sessions are prepared and planned directly together with the participant's personal trainer.

TECHNICAL CONTACT	SALES CONTACT
Andreas Weine Customer Support	**Michael Wehmeier** Sales and Marketing
Phone: +49 5251 699 8661 Fax: +49 5251 699 8699 E-mail: aweine@orga-test.com	Phone: +49 5251 699 8660 Fax: +49 5251 699 8699 E-mail: mwehmeier@orga-test.com

* Stated duration is for a single training session. This may need to be adjusted depending on the participant's prior knowledge and any combination with other IT³ training sessions.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WELL SERVED
IN ALL AREAS

To ensure continued high performance, IT^3 equipment must be calibrated regularly. At ORGA Test Systems, we offer an annual calibration service in our own laboratory, with all equipment serviced by our own team of professional technicians. Of course we are always happy to add new functionalities to your system – another service offered at our production facility by our technicians.

Fixed contracts include the following service and maintenance elements:

SERVICE AND MAINTENANCE IN A FIXED CONTRACT	
Annual calibration	annual maintenance, no additional costs
Replacement system service	365 days availability
Extended repair service	no additional costs
Replacement system service	availability during calibration
Hotline	quick problem solving
Support web site	knowledge base, download service

1st level local support is offered by our facilities Europe, Asia and North America.

1ST LEVEL LOCAL SUPPORT	
Europe	Paderborn, Germany Houthalen, Belgium Newbury, UK
Asia	Singapore Beijing, PR. China Hong Kong Tokyo, Japan Seoul, Korea
North America	Irvine Ca, US Paoli Pa, US

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FURTHER PRODUCT INFORMATION FROM

ORGA TEST SYSTEMS

- Test (U)SIMs
- Accessories

YOU WILL ALWAYS REACH US AT

WWW.ORGA-TEST.COM

Editorial
Editor: Camilla Piper, ORGA Test Systems
Design: Claus Bruns, KOMMA Design
Text: Alison Riddell-Kachur

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP