

TESTING

MADE EASY

ARE YOU TESTING THE SAME

Solver by Polystar is a high-performance, load and stress testing tool that generates and terminates voice and video calls, SMSs and packet data over various networks and interfaces.

The system allows different technologies to be tested simultaneously. Solver is ideal for lab use as well as in real networks for determining heavy load capacity, feature verification, and user-plane evaluation.

With just a few clicks, you can simulate numerous types of traffic patterns over the following interfaces:

- A/Ater/AoIP
- Iu-CS/Iu-CSoIP
- ISUP
- Iu-PS
- SIP
- LTE

WAY YOU DID 15 YEARS AGO?

Network testing doesn't have to be complicated and expensive. Now Solver from Polystar lets you perform precise and qualitative measurements, quickly and affordably.

Testing your network has never been this easy and efficient. Imagine simulating heavy-loads and confirming feature performance with a few simple clicks in the user-friendly GUI. This unique level of ease is what makes Solver a clear standout in the testing market.

“Why spend time learning a script language when you can be testing?”

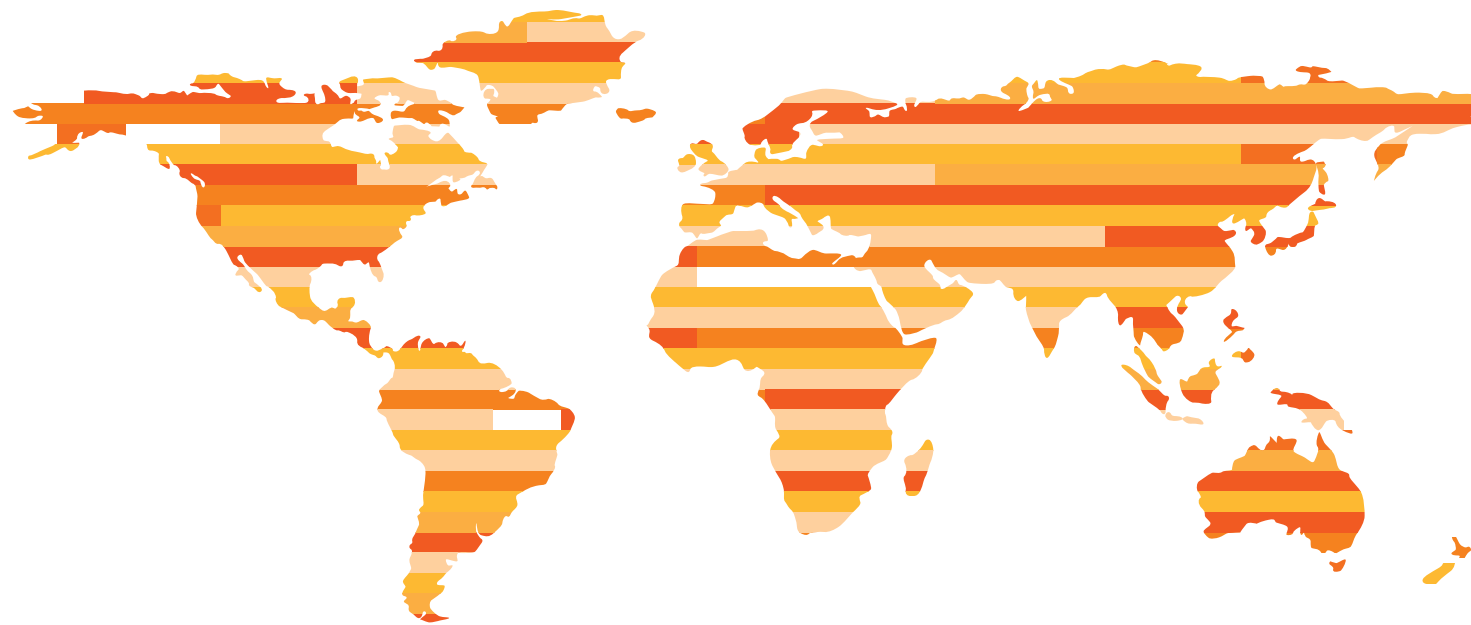
Niklas Thorin, CEO Polystar T&M.

Solver set-up takes only a few hours – not days or weeks. Advanced testing scenarios can be created immediately and are easily changed with each test cycle. The test-automation feature allows you to keep Solver working around the clock.

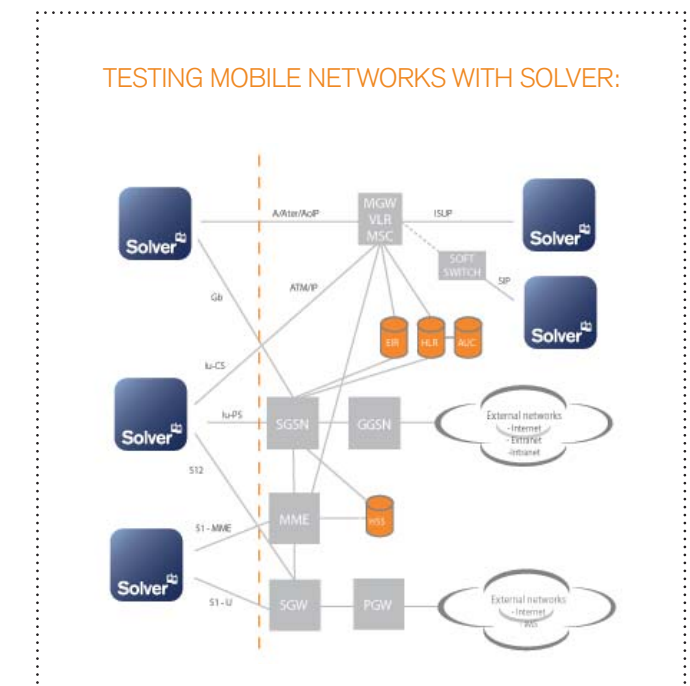
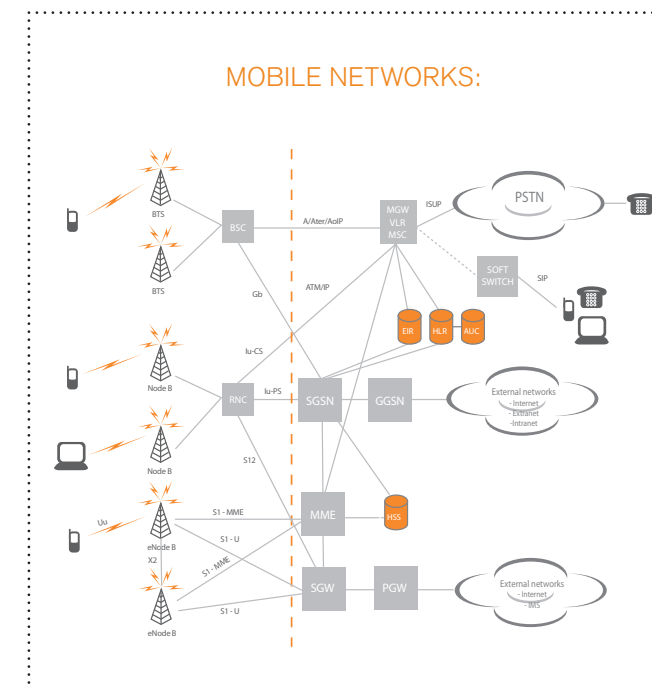
In addition to exceptional ease of use, Solver also offers the following benefits:

- Rapid installation
- Low cost per call
- Low cost of ownership
- Massive load generation
- Small footprint
- Test automation
- Up to date functionality – follows 3GPP releases

Solver – a breakthrough tool for testing wireless networks.



Our client base continues to expand rapidly into new markets. Polystar solutions have now been implemented on six continents.



SOLVER PROTOCOL CONFORMANCE



NIKLAS THORIN
CEO Polystar T&M

“Polystar has grown from a small, single-customer company to become the preferred core network test-tool provider for major vendors and operators, worldwide.”

Iu-CS/Iu-PS/AoIP

Control Plane:

AAL5	ITU-T I.363.5
SSCOP	ITU-T Q.2110
SSCF	ITU-T Q.2140
MTP3-b	ITU-T Q.2210 (Based on Q.70X)
SCCP	ITU-T Q.711-Q.716
RANAP	3GPP TS 25.413
L3	3GPP TS 24.008
M3UA	IETF RFC 4666, ETSI TS 102 142
SCTP	IETF RFC 2960 & 3309, ETSI TS 102 144
MTP3	ITU-T Q704
SCCP	ITU-T Q711-Q716

Transport Network Control Plane:

AAL5	ITU-T I.363.5
SSCOP	ITU-T Q.2110
SSCF	ITU-T Q.2140
MTP3-b	ITU-T Q.2210 (Based on Q.70X)
ALCAP	ITU-T Q.2630.2 (AAL2 Connection Signalling)

User Plane:

AAL2	ITU-T I.363.2
Iu-UP	3GPP TS 25.415
RTP	ETF RFC 1889 (RTCP partly supported), ETSI TS 125 414
IPv4	RFC 2225, RFC 791
UDP	RFC 768, RFC 791
GTP-U	3GPP TS 29.060

GSM A/ISUP

Control Plane:

MTP2	ITU-T Q.703
MTP3	ITU-T Q.704
SCCP*	ITU-T Q.711-Q.716
BSSAP*	3GPP 08.08

GSM A/ISUP

User Plane:

PCM Coded G.711 A-Law and μ -Law

* not applicable for ISUP

SIP

Control Plane:

SIP	IETF RFC 3261
SIP-I	ITU-T Q.1912.5

User Plane:

RTP IETF RFC 1889

LTE

Control Plane:

S1AP 3GPP TS 36.413

User Plane:

IPv4/IP6	RFC 791/RFC 2460
UDP	RFC 768
GTP-U	3GPP TS 29.060
User Data	UDP/IPv4/IPv6, RFC 768, RFC 791, RFC 2460

APPLICATIONS

PESQ (A, Iu-CS, ISUP, Ater, ISUP, SIP)

PESQ ITU-T P.862

TrFO (Iu-CS)

3GPP TS 26.102 Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codecs

3GPP TS 25.415 UTRAN Iu interface user plane protocols

TFO (A)

3GPP TS 28.062 Inband Tandem Free Operation (TFO) of speech codecs.

MIP (A, Iu-CS, Ater)

3GPP 23.236 Connection of RAN Nodes to Multiple CN Nodes.

SMS (A, Iu-CS, Ater)

3GPP 23.040



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