

Version  
01.00April  
2004

## Measurement Server System R&S®EFA-NET for 8VSB

### Graphical/analytical reporting of TV transmission systems

- ◆ Leverages ATSC/8VSB R&S®EFA-53
- ◆ Dell PowerEdge server<sup>1)</sup>  
(Linux operating system)
- ◆ Client for Windows 98/NT/2000/XP
- ◆ Interfaces: IEC625/IEEE488, server to R&S®EFA-53 Ethernet, for TCP/IP remote connections
- ◆ SNMP support for management solutions
- ◆ Synergy of an automatic user- and event-driven database engine, intuitive GUI, powerful trend analysis

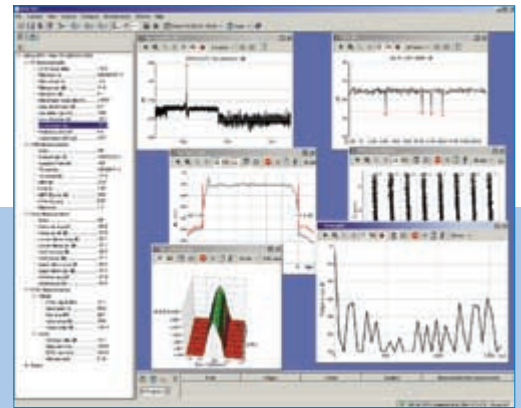

**ROHDE & SCHWARZ**

The R&S® EFA-NET server runs the Linux operating system, proven for reliability and networking. The R&S® EFA-NET client software is a native Java application with inherent cross-platform support. It even runs on a PDA. The R&S® EFA-NET leverages the tried-and-tested performance of the ATSC/8VSB Test Demodulator R&S® EFA-53<sup>2)</sup>, coupled with intelligent Rohde & Schwarz



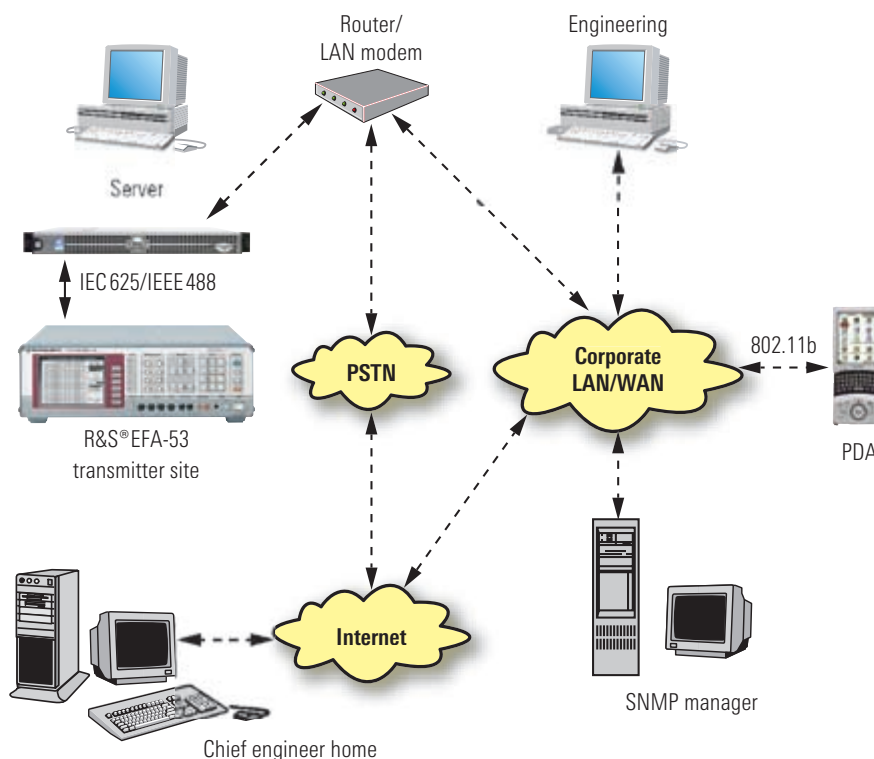
software for a networked world. The R&S® EFA-NET represents the next level in ATSC/8VSB transmission system monitoring solutions from the leader in broadcast test and measurement, Rohde & Schwarz.

The Measurement Server System R&S® EFA-NET for 8VSB provides remote access via private LAN/WAN and the Internet (VPN and dial-up). It introduces realtime and historical

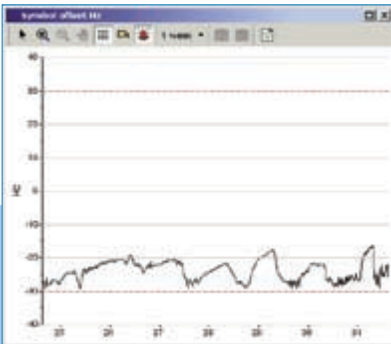


graphical/analytical reporting of transmitters and transmission systems. Both 8VSB digital and NTSC analog standards<sup>3)</sup> can be monitored in conjunction with the Test Receiver R&S® EFA. The R&S® EFA-NET system can also access key transmitter site parameters including in-service, full-power return loss measurement<sup>4)</sup> of your complete transmission system through optimization of the R&S® EFA-53 ECHO display.

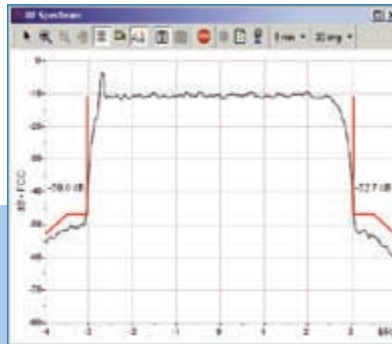
## Watch your transmitter site wherever you are ...



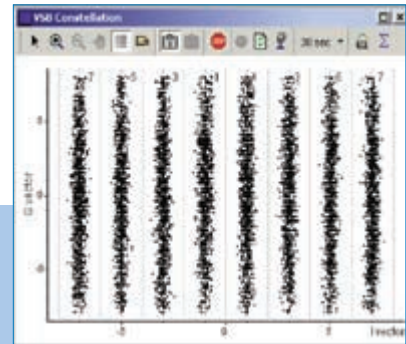
R&S® EFA-NET network example



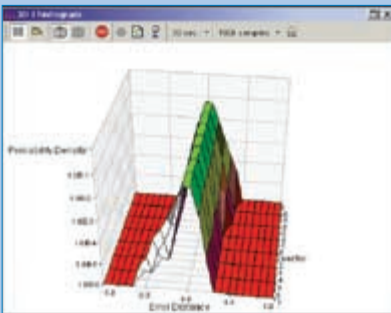
*Trend analysis*



*FCC shoulders spectrum*



*Constellation*



*3D I histogram*



*In-service return loss*

Measurements	Graphical displays
RF level	Constellation diagram
Pilot (freq, amp error)	Histogram I
Symbol rate	Spectrum
ATSC TS rate	Return loss (option)
BER	Freq response/group delay
EVM	3D histogram (new)
MER	Amplitude distribution (RF)
SNR	CCDF (RF)
ATSC peak/average	CCDF (envelope method)
FCC shoulders	Pilot phase noise
Crest factor	Trend analysis

## Ordering information

For R&S®EFA-NET<sup>1)</sup> ordering information, please contact your local Rohde & Schwarz sales representative.

<sup>1)</sup> The R&S®EFA-NET received the TV Technology "Star Award" for superior technology at NAB 2003.



<sup>1)</sup> Customer purchases server; Rohde & Schwarz supplies ordering specifications.

<sup>2)</sup> See R&S®EFA-53 data sheet for specifications (PD 0757.7017.21).

<sup>3)</sup> NTSC available as an option.

<sup>4)</sup> Return loss available as an option.



**ROHDE & SCHWARZ**

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG · Trade names are trademarks of the owners · Printed in Germany (Pe we)  
PD 0758.1458.32 · R&S®EFA-NET for 8VSB · Version 01.00 · April 2004 · Data without tolerance limits is not binding · Subject to change