Preface	
Dismounted Soldier – Enhanced System (IdZ-ES) The total system for the 21 st century Major General Wolf-Joachim Clauß, Commander German Army Office (retired by 31 st May)	3
Basics	
Project Implementation Considering Technical and Economical Conditions Lecture Team German MOD and Mittler Report Verlag	6
Focused on Fielding Lieutenant Colonel Stefan Ley, German Army Office (HA) III 4 (2), Senior Staff Officer Armament	11
Network Centric Operations (NCO) with the Dismounted Soldier – Enhanced System (IdZ-ES) Lieutenant Colonel (ret) Theodor Hodouschek	18
Capabilities and Technologies	
The Total System Approach <i>Dismounted Soldier – Enhanced System (IdZ-ES)</i> <i>Holistic principles</i> Rheinmetall Defence	20
Command and Control Dismounted Soldier – Enhanced System (IdZ-ES) Communication, Command and Control Rheinmetall Defence	22
Communication System – The Heart of the IdZ-ES DiplIng. Raimund Richter, Director Tactical Communication, Thales Deutschland GmbH	26
Effectiveness Future Soldier Relies on Modular Optical Systems Carl Zeiss Optronics GmbH	28
Innovative Helmet – Mounted – Display for Augmented Reality challenge GmbH & Co. KG	30
The Panzerfaust 3-IT 600 for the IdZ-ES <i>Highly effective, long-range anti-tank weapon</i> Thomas Alexander Meuter, Dynamit Nobel Defence GmbH	32

The Armament of the Dismounted Soldier – Enhanced System (IdZ-ES) Lieutenant Colonel (Res) Dr. Jan-Phillipp Weiswange	34
NYXUS BIRD – a Small and Lightweight Day / Night Reconnaissance and Target Acquisition System for Infantry and Special Forces Jenoptik Defense & Civil Systems	38
The Laser Light Module 01 Rheinmetall Soldier Electronics GmbH	40
LUCIE II DIR Modular Night Vision Goggles with Integrated Data and Video Display and Adaptable Thermal Imaging Module Karl-Heinz Thies and Jan-Uwe Meyer, THALES Defence & Security Systems GmbH	42
Survivability, Protection and Sustainability Clothing, Protection and Load Bearing System Dismounted Soldier – Enhanced System (IdZ-ES) Blücher Systems® GmbH	44
Mobility Integration of the Dismounted Soldier – Enhanced System (IdZ-ES) with the Puma AIFV and the Boxer APC Rheinmetall Defence	48
Training	
Training – Seen From a Military Point of View Major Jörg Rabenow, German Army Office, Training Division	50
Training for Operations – The industry perspective Rheinmetall Defence	52
Future Trends	
Growth Potential from the Industrial Point of View Rheinmetall Defence	55
Interoperability for NATO and European Infantrymen Colonel (retired) Michael Horst, Dr. Karl-Heinz Rippert	60
Ergonomics of the Future IT Equipment of the Soldier Dr. Thomas Alexander, Head of the Human research area, Fraunhofer Institute for Communication, Information Processing and Ergonomics (FKIE)	61

Imprint

Defence Technology Review 2/2012 June 2012
Publishing House: Mittler Report Verlag GmbH, Bonn/Germany Company of the Tamm Media Group
Managing Directors: Dr. Peter Bossdorf Fritz-Hermann Bäte
Editor team: Michael Horst Eduard Becker Wilhelm Bocklet Gerhard Heiming Eike Rhein
Translations: Germany Army Office, Cologne Context GmbH Jürgen Hensel
Layout: davis creativ media GmbH, Bonn www.davis-creativ-media.de
Editorial Office: Hochkreuzallee 1, D-53175 Bonn Telephone: +49-228-36 80 40 3 Telefax: +49-228-36 80 40 2 E-Mail: info@mittler-report.de Internet: www.mittler-report.de
Subscription/Reader's Service: PressUp GmbH, Postfach 70 13 11, 22041 Hamburg Telephone: +49 (040) 41448-471 Telefax: +49 (040) 41448-499 E-Mail: mittler-report@pressup.de
Production: Produktionsmanagement impress media GmbH D-41179 Mönchengladbach
Price per Unit: 14,80 € (shipping not included)
Pictures/graphics are from the authors if not noted separately.
Any utilisation of the copyright pro- tected contributions and illustrations in this brochure, including translations, duplications, microfilming, storage and processing in electronic systems is illegal and liable to prosecution unless author- ised by the publisher.