

Preface	
Stable Security in Europe Requires Capable German Land Forces	3
Henning Otte, MP and Member of the Defence Committee of the German Bundestag	
Forewords	
Army 4.0	6
Frank Leidenberger, Lieutenant General and Commander of the German Army Elements of the Multinational Corps/Basic Military Organization	
German Land Forces – Collective National and Alliance Defence and International Crisis Management	9
Wolfgang Köpke, Major General retired President of the Association of the German Army (Förderkreis Deutsches Heer e. V. - FKH)	
Mission and Capabilities	
Airmobile Forces of the Army	10
Dietmar Klos	
Future Challenges for the Bundeswehr Medical Service in International Crisis Management and in National/Collective Defence	16
Lieutenant Colonel Sascha Peter Bös; Lieutenant Colonel, Pharmacy Corps, Sebastian Fricke; Lieutenant Colonel, Medical Corps, Matthias Marth; Lieutenant Colonel, Dental Corps, Dr Anna Grella, Bundeswehr Medical Service Headquarters	
The Logistics System of the Bundeswehr in the Capability Profile of the Future	20
Major Robert Treichel, Bundeswehr Logistic Command	
Land Combat System Support at NATO Support and Procurement Agency (NSPA)	23
Jörn Brauer, Staff Officer Life Cycle Management Directorate, NSPA and Robert Elvish, Programme Manager Air and Land Combat System Programme Office, NSPA	
Armament Projects Land Forces	
Equipment Planning in the German Army – Situation and Outlook	26
Lieutenant Colonel (GS) Eduard Schnabel, German Army Headquarters Staff	
Selected Equipment Projects of the Bundeswehr Joint Medical Service in Light of the Current Adaptation of the Capability Profile	36
Colonel, Pharmacy Corps, Rudolf-Ernst Ziegler Division X (Head of Division) and Commander, Pharmacy Corps, Dr. Christian Martin Froben Branch X-1 (Head of Branch), Bundeswehr Medical Service Headquarters	
Protection and Mobility	
Protected Command and Utility Vehicles – Current Status and Further Procurement Activities	39
Lieutenant Colonel M. Sc. Ralph Willi Jeroma, BAABNw, Directorate U	
Vehicle Light Protection Kit	43
Michael Klein, CEO Hutchinson GmbH and President Defense & Mobility	
Short and Very Short Range Air Defence: A Long-term Air Force Analysis	46
Lieutenant Colonel (GS) Mateo Osterhagen-Zalles, Lieutenant Colonel (GS) Marcel Szalai, and Lieutenant Colonel (GS) Helge Weymann, German Air Force Command	
New Design Concepts and Tools for High Level Protection Systems	49
IBD Deisenroth Engineering GmbH	
Comprehensive Perimeter Protection on Land, Water and in the Air	52
Securiton GmbH	
Command and Control	
The Army Command and Control Information System (Army CCIS)	54
Team of authors, German Army Headquarters Staff IV 1 Command Support	

Digitalisation – Future-Oriented C² Capability of Land Forces	61
Lieutenant Colonel (GS) Mario Brux, Army Concepts and Capabilities Development Centre	

Reconnaissance

Heron 1 – A Success Story in the West African Country of Mali	66
Captain Kim-Florian Heilmann, 51 Tactical Air Wing Immelmann	
Project STF: Precise Effect at Long Ranges	68
André Forkert	
IT Command and Control Equipment for the Fennek JFST	74
ATM ComputerSysteme GmbH	

Effects

Leopard 2 A7V Main Battle Tank: Strengthening the Armoured Combat	77
Lieutenant Colonel Frank Lobitz, BAAINBw, Branch K5.1	
The Puma Infantry Fighting Vehicle in the In-Service Phase: Current Status and Future Development	80
Leitender Technischer Regierungsdirektor Hartmut Schroers, BAAINBw, Branch K5.2	
Puma IFV – German Enhancement Programme	84
PSM Projekt System & Management GmbH	
The Advancement of the Tiger Attack Helicopter	86
André Forkert	
MBDA Proposes the EMM Missile to Strengthen German-French Defence Cooperation	91
Waldemar Geiger	
The Future Infantryman System – Current Status and Future Procurement Plans	92
Lieutenant Colonel Thorsten Dietmar Unger, BAAINBw, Branch U5.5	

Support

The MLC 80 Assault Bridge – Armoured Bridging System: Its Status Concerning Procurement and Fielding in the Army	96
Technischer Regierungsdirektor Martin Braatz, BAAINBw, Branch K6.3	
Tracks Support Tracks	102
Gerhard Heiming	
WiSENT 2 – One Platform for Multiple Missions	104
Christoph Jehn, FFG Flensburger Fahrzeugbau Gesellschaft mbH	
Industrial Support Services	108
steep GmbH	
Protected and Unprotected Vehicles of the Bundeswehr	110
Gerhard Heiming and Michael Horst	
NH90 – Current Status and Further Development	114
TROAR Carsten Peters, BAAINBw, Branch L4.4	
The CH-53 in the Field	116
Lieutenant Colonel Stefan Molde, German Air Force Headquarters	

Future Trends

High-Energy Laser Systems for Military Use	119
Dorothee Frank and Gerhard Heiming	

Imprint

Defence Technology Review 3/2018
June 2018

Publishing House:
Mittler Report Verlag GmbH
Bonn, Germany
a company of the Tamm Media Group



Managing Directors:
Dr. Peter Bossdorf
Thomas Bantle
Peter Tamm

Managing Editor:
Michael Horst

Editorial Team:
Dorothee Frank
Christian Kanig
Dietmar Klos
Gerhard Heiming
Clara Hensel

Translation:
Tim Hanes
Bundessprachenamt
Tongue Tied (Manchester) Ltd
Robert Robin

Layout:
creativ consulting GmbH
53340 Meckenheim

Editorial Office:
Mittler Report Verlag GmbH
Baunscheidtstraße 11, D-53113 Bonn
Phone: +49(0)228 35 00 870
Fax: +49(0)228 35 00 871
E-Mail: info@mittler-report.de
Web: www.mittler-report.de

Subscription/Reader Service:
PressUp GmbH, Postfach 70 13 11,
D-22041 Hamburg
Phone: +49 (040) 41448-471,
Fax: +49 (040) 41448-499
E-Mail: mittler-report@pressup.de

Advertising Management:
Waldemar Geiger
Director Marketing and
Business Development
Mittler Report Verlag GmbH
Baunscheidtstraße 11
D-53113 Bonn
Telefon: +49 (0) 228 3500887
waldemar.geiger@mittler-report.de

Production:
Lehmann Offsetdruck GmbH
22848 Norderstedt, Germany

Single Copy Price: €14.80
(shipping not included)

Pictures/Illustrations:
Authors, unless otherwise referenced

Copying of any part of this publication
without the express authorisation by the
publisher is prohibited.