

Nato Stanag 5504

Militärische Kommunikationstechnik Jane's International Defense Review Mobile militärische Kommunikationsnetze Government Reports Announcements & Index Jane's All the World's Aircraft NATO AC/310 Activities Report on NATO STANAG 4170 and Allied Ordnance Publication 7, AOP-7 (Manual of Tests for Qualification of Explosive Materials for Military Use). Status of NATO STANAG 4170 and Allied Ordnance Publication 7, AOP-7 (Manual of Tests for Qualification of Explosive Materials for Military Use). UK Profile of NATO STANAG 4609 A Simulation and Evaluation of NATO Standardization Agreement (STANAG) 4214 Gunnar Teege Gunnar Teege M. E. Houser M. E. Houser Great Britain. Ministry of Defence Michael A. Dorko

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wer heute von funknetzen spricht meint damit meist ein wlan nur wenige denken noch an die mobilfunknetze umts oder gsm daß auch im bereich der behörden und organisationen mit sicherheitsaufgaben ein hoher bedarf an mobiler kommunikation besteht und insbesondere die bundeswehr sowie nato partner ihre eigenen technologien entwickelt haben ist nur wenigen bewußt dabei haben

gerade diese organisationen sehr hohe technische anforderungen die zu interessanten lösungen führen so müssen bei internationalen einsätzen wie dem schutz von frachtern vor piraten vor der küste somalias lagedaten schnell und sicher nach deutschland und befehle zurück übertragen werden dabei sind höchste sicherheitsanforderungen zu erfüllen um dritten ein abhören der kommunikation unmöglich zu machen gerade für sichere verschlüsselung war das militär lange zeit die treibende kraft auch sind militärische lagen in der regel sehr mobil sogar die gesamte notwendige infrastruktur muß vor ort aufgebaut werden schnell verlastbar sein und auch unter widrigen bedingungen funktionieren das sind anforderungen die in abgemilderter form auch den katastrophenschutz oder das technische hilfswerk betreffen heutzutage ist kaum eine armee mehr allein im einsatz stets sind verbündete nationen beteiligt die möglicher weise unterschiedliche standards zum nachrichtenaustausch nutzen durch entsprechende hard und software muß eine interoperabilität zwischen den systemen erreicht werden so daß ein datenaustausch über mehr als nur die drehstuhlschnittstelle möglich ist die daten müssen in geeigneter weise sichtbar gemacht werden dabei haben führungskräfte andere anforderungen an die darstellung als ein einzelner infanterist wie dies technisch durchgängig erreicht werden kann zeigt dieser band auch auf dabei wird ein interessantes spektrum von anwendungen der informatik der technischen informatik und elektrotechnik aufgezeigt eine besonderheit des vorliegenden buches ist daß alle autore

im alltäglichen leben ist mobilkommunikation mittlerweile standard sms und handy telefonate sind kaum mehr wegzudenken im autoradio sorgt rds dafür daß der sendername lesbar angezeigt wird und das navi umfährt staus dank tmc alle diese verfahren nutzen digital codierte nachrichten um informationen zu übertragen Ähnliche probleme und anwendungen hat das militär das hochmobil agieren muß und dabei vielfältigen kommunikationsbedarf hat so müssen befehle den adressaten sicher erreichen und lageinformationen vom einsatzort zur führung gelangen technisch besonders aufwendig ist das bei friedenssicherenden und erhaltenden maßnahmen hier müssen die lagedaten vom weltweiten einsatzort zuverlässig zum zentralen lagezentrum in deutschland gelangen seit vielen jahren sind dazu bei der bundeswehr den nato partnern und verbündeten digitale funksysteme im

einsatz die notwendigkeit für digitalfunk ergab sich aus den hohen sicherheitsanforderungen und der notwendigen eindeutigkeit der nachricht denn im vergleich zum klassischen sprechfunk lassen sich digitale nachrichten besser durch verschlüsseln vor lauschern schützen sind bei gleichem informationsgehalt wesentlich kompakter und vermeiden die mehrdeutigkeit einer natürlichsprachigen kommunikation dieser sammelband stellt eine auswahl mobiler militärischer kommunikationssysteme vor damit deckt er ein interessantes grenzgebiet der technischen informatik nachrichtentechnik und der elektrotechnik ab während die bisherigen entwickler und standardisierer der technologien hauptsächlich aus der elektrotechnik kamen zeigt sich mittlerweile immer mehr die notwendigkeit auch spezifisches fachwissen der informatik einzubringen so unterstützt das herausgebende institut für technik intelligenter systeme an der universität der bundeswehr in münchen das it amt der bundeswehr seit einigen jahren vielfältig in technischen fragen know how aus dieser beratung ist ebenso in dieses buch eingeflossen wie hintergrund un

the final draft of stanag 4170 has been approved by nato ac 310 subgroup i explosives and distributed to the participating nato nations for ratification the principles and methodology for the qualification of explosives propellants and pyrotechnics are described the fifth draft of the aop 7 manual of tests which is the companion document to stanag 4170 is being assembled the principal features of assessment principles and methodologies national qualification procedures reference explosives test information sheets methods to record and issue data and the duties of national authorities are described in detail author

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an object oriented simulation model is developed to evaluate the effectiveness of nato standardization agreement stanag 4214 which

promulgates the protocol for international telephone call routing and directories for tactical communications the model simulates communication systems using the stanag 4214 protocol to isolate discrepancies which could lead to the inability to successfully complete calls within the system the model also simulates protocol modifications created to correct existing discrepancies and verifies their effectiveness in making the protocol more robust results show that these modifications improve stanag call completion rate from a potential low of under 70 percent to 100 percent while simultaneously easing the restrictions on lateral communication connections the model is menu driven with both graphical and hard copy output making it useful to network planners protocol designers and tactical communications officers

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