1. Organisation

a) In general Terms, describe your country’s principal organisation(s)/agencies responsible for procuring defence materiel.

There are 2 federal authorities which are tasked with the procurement of materiel needed by the German Armed Forces (Bundeswehr).

These are:

♦ **Bundesamt fuer Wehrtechnik und Beschaffung (BWB)**
  (Federal Office of Defence Technology and Procurement)

♦ **Bundesamt fuer Informationsmanagement und Informationstechnik der Bundeswehr (IT-Amt Bw)**
  (Federal Office for Information Management and Information Technology of the Bundeswehr)

**Bundesamt fuer Wehrtechnik und Beschaffung (BWB)**
(Federal Office of Defence Technology and Procurement)

**Homepage: www.bwb.org**

The Federal Office of Defence Technology and Procurement (BWB) as part of the civilian Federal Defence Administration (Bundeswehrverwaltung) is the largest technical government authority in Germany. Besides its central office in Koblenz on the Rhine, it has been assigned a number of test facilities and institutes for defence related research which are distributed over the entire territory of the Federal Republic of Germany. Branch offices are located in the United States, the United Kingdom and in France. Its superior agency at the Federal Ministry of Defense (FMOD) is the Directorate General of Armaments, which is in charge of armaments planning. BWB is the core of the armament sector; its mission is to adequately equip the Bundeswehr with state-of-the-art technology at the most economic conditions.
Within the scope of the Bundeswehr reform process the BWB adopted a new structure on 15 April 2003 to adjust to the changed security environment.

The BWB is headed by a president and one vice-president, who are supported by the executive staff and Central Controlling.

The two service divisions Z and T deal with central administrative tasks as well as general technical and economic matters.

The four project divisions, Land Combat, Land Support, Sea and Air are responsible for
– the management of complex projects,
– systems engineering and integration,
– research and technology,
– technical/economic aspects of in-service support management,
– contract and price negotiations.

The BWB is the supervisory body for seven technical centers and three research centers which are mainly responsible for
– technical consultation and support of the project management for components and equipment,
– performance of studies, research and technology tasks, and
– performance of experiments and analyses.

The Naval Arsenal with its 2 installations carries out repairs for the Navy.

The Liaison Office for Defense Materiel USA/Canada near Washington D.C. establishes and maintains contacts with the transatlantic partners.

The most important feature of the new structure is its concentration on the core responsibility of the BWB: Project management. Specialist technical tasks are delegated to the technical centers.

Tasks related to information technology are assumed by the newly established Bundeswehr IT Office (see there).
More in depth information on BWB’s tasks, organisation etc. is available on BWB’s homepage under:

www.bwb.org > Customer Bundeswehr

Under the link “Customer Bundeswehr” you will also find a very informative brochure “The Bundeswehr as a Customer” which provides comprehensive information on the whole German armaments sector, its organization and procedures and how to get into business.
Bundesamt für Informationsmanagement und Informationstechnik der Bundeswehr
(IT-Amt Bw)

(Federal Office for Information Management and Information Technology of the Bundeswehr)

The Bundeswehr IT Office is responsible for providing the Bundeswehr with the best functional, modern and cost-effective IT procedures and systems. It is thus the central service provider for the armed services and the Federal Defense Administration.

In addition, it is responsible for the conceptual planning, development, procurement and use of high-performance communication and information systems. In this way the IT Office creates the adequate environment for modern information management in the Bundeswehr.

In technical, organizational and personnel matters the Bundeswehr IT Office reports to the IT Director of the Federal Ministry of Defense, who is responsible at MoD level for planning, control and monitoring IT developments in the Bundeswehr.

The IT Office is under the leadership of a civilian president deputized by a military vice president.

Together with the subordinate Bundeswehr IT Center and data processing centers, the Bundeswehr IT Office will have about 2,450 staff members in its target structure, including 20 percent military personnel. The structure of the Bundeswehr IT Office reflects its complex task spectrum.
b) Provide organisational charts of the respective organisation(s)/agencies

Federal Office
Of Defense Technology and Procurement

BWB Agencies

BWB’s Subordinated Agencies
Deployment of BWB Agencies

- MARS 2 Installations
- Naval Arsenal

- FGW Oceanography
- WMBE Materials/Explosives
- WMBE NBC Protection
- WLS Research Institutes
- WTD 91 Weapons/Ammunition
- WTD 84 Communication/Electronics
- WTD 87 Ship/Water Weapons
- WTD 88 Aircraft/Aerospace Equipment
- WTD 82 Protection
- WTD 54 Engineering Equipment
- WTD 41 Vehicles/Tanks
- Technical Centers
The Federal Office of the Bundeswehr for Information Management and Information Technology (Bundeswehr IT Office)

Structure of Bundeswehr IT Office

Head of IT Office

Central Support Area

Executive Staff/Controlling

A
Information Management Innovation Concepts

B
Economic Efficiency Contracts Budget

C
IT-Equipment Communication

D
Command and Control Support Applications

E
Logistics and Administration Applications

Project Management as a Part of the Matrix Organization

Sebordinate Level - Bundeswehr IT Center
c) Describe how these organisation(s)/agencies are integrated / linked into the overall structure of your country’s Ministry of Defence

<table>
<thead>
<tr>
<th>Position of BWB and ITAmtBw in the overall structure of the German MoD</th>
<th>BWB</th>
</tr>
</thead>
</table>

German Ministry of Defence (MoD)

Inspector General of the Bundeswehr
Inspector General of the Services

Director

Arms Director

BWB
Federal Office of Defence Technology and Procurement

ITAmtBw
Federal Office for Information Management and Information Technology of the Bundeswehr

Director

Inform Technology

**d) In general terms describe the main features of your country’s acquisition/procurement policy**

**Determination and meeting of the Bundeswehr demand:**

The Bundeswehr needs efficient and modern equipment. The broad operational spectrum demands equipment which is efficient to the needs and basically compatible with that of our allies. In addition, the procurement times must be short in order to meet the requirements of an operational army and to keep pace with the rate of technological change.

The German procurement procedure *"Customer Product Management"*, or short CPM, supports these efforts to increase the capabilities of the Bundeswehr.

The determination and meeting of the Bundeswehr demand is divided into phases. In the **ANALYSIS PHASE** integrated working groups under the responsibility of the Chief of Staff Bundeswehr analyze available and necessary capabilities for the entire Bundeswehr.

Based on this comprehensive capability analysis, capability gaps are identified and solutions are investigated in the five planning categories personnel, operations, organization, infrastructure and armaments. For solutions in the field of armaments, a functional description is prepared for those requirements which are essential for eliminating the deficit.
Following the Analysis Phase, products available on the market will be introduced to meet the requirements identified (INTRODUCTION PHASE).

However, if preference is given to the development of a new product, a risk reduction is carried out before the main investment decision is made. In this RISK REDUCTION PHASE industry has to provide a demonstration of product capabilities (using simulation, demonstrators or prototypes) to ensure that all requirements will be met.
2. Types of Standards and Standard-like Specifications used for Armaments Projects/Procurement of Defence Materiel

a) Which types of standards and standard-like specifications (e.g. ISO, CEN, Mil Std, Def Stan, VG-Norm) are in use in your country for procurement of materiel and services required for the armed forces?

The full range of civil, commercial, international military alliance, national military and other country’s military standards are available for use by German Project Managers in accordance with the ‘Hierarchy for the Selection of Standards’ (VG 95821) which places NATO Standardization Agreements (STANAG) at the top. There is no special adoption procedure for the use of civilian standards introduced. If an appropriate civil standard is available the Project manager is free in his decision to apply this standard in his project.

b) Describe your country’s policy regarding the application of national (civil and military) standards/specifications.

The German procurement procedure CPM supports the maximum use of available products rather than the development of new equipment. For standardization this necessarily obliges BWB Project Managers to the use of civil standards in their armaments projects to the most possible extent.

In accordance with this basic requirement, BWB has established the following policy for its national Military Standards and Technical Specifications:

♦ NATO STANAG – if ratified by Germany – have priority.

♦ If available, civilian standards (international/regional/national) are to be applied for development and/or procurement of German defence materiel.

♦ If there should be no appropriate civilian standard available, then the first choice is to attempt to include defence materiel related requirements into a civilian standard by joining the relevant civilian standardisation body as one of the “Interested Parties”.

♦ Only if this approach should not be possible in general (e.g. weapons, ammunition) or should impossible in a timely manner, the option for a Military Standard (Verteidigungsgerätenorm = VG-Norm) or a BWB Technical Specification (BWB-Technische Lieferbedingungen = TL) may be chosen.

♦ Military Standards or Technical Specifications are to be withdrawn as soon as a civilian standard will be published which covers the military subject too.

♦ German Military Standards and Technical Specifications are drafted in accordance with the international rules for civilian standards.
c) **Are the standards/specifications generally performance/functionally based or are detailed standards/specifications used?**

In accordance with German procurement procedure CPM it is BWB’s general policy to describe requirements in terms of performance rather than design or descriptive characteristics (in order to promote innovation) and to select standards accordingly.

Despite this general requirement most of the documents will contain a mix of performance and descriptive characteristics. Especially Technical Specifications for repeated procurement of in-service equipment, for spares etc. will contain more descriptive characteristics than performance requirements, whereas Project Specifications for the development of new materiel shall leave room for a wide range of innovative solutions and therefore should only describe in detail those interface requirements which are indispensable to assure interoperability.

d) **Are the standards/specifications generic or are they specific to an environment (Land, Sea, Air) or specific to particular projects/equipment?**

German Military Standards (VG-Normen) and Technical Specifications (TL) may generally be applied for all projects but on occasions they may be specific to an individual application/environment (such as the Navy) or for a particular project or equipment. Project Managers are free to choose for their project any applicable standard/specification from the already available stock of documents taking into account the hierarchy of standards described in VG 95821.

e) **Are the users of military standards/specifications restricted to MoDs or do Industry also use them?**

German Military Standards (VG-Normen) along with civilian standards are sold by the Beuth-Verlag (the publishing house DIN) for use by any nation’s MOD or industries.

German Technical Specifications (TL) are available free of charge on BWB’s Internet homepage (www.bwb.org). Only those TLs dealing with weapons, ammunition etc. have to be ordered by E-mail along with a proper justification (BWB contract etc.).
3. Selection of Standards for Armaments Projects/Procurement of Defence Materiel

a) Is there a hierarchy/priority in effect in your country for the application of standards for armaments projects/procurement of defence materiel?

The German Military Standard VG 95821 provides guidance on the hierarchy of standards to be applied for development and procurement of defence materiel for the German Armed Forces.

Apart from the hierarchy described in VG 95821, all standards required by law, by government legislation, by safety regulations etc. have to be applied with priority when developing or procuring defence materiel for the German armed forces.

Priority of standards according to VG 95821

1. NATO Standardization Agreements (STANAG) as far as ratified by Germany
2. German civilian standards (DIN). This of course includes all international and regional (European) standards which have been taken over by DIN (e.g. DIN EN).
3. German military standards
   Verteidigungsgerätenormen (VG-Normen) including Werkstoffleistungsblätter (WL-Blätter)
   For design of German naval vessels the Bauvorschriften für Schiffe (BV-Hefte) apply too.
4. German Technical Specifications (BWB Technische Lieferbedingungen = TL)
5. Military standards issued by NATO partner nations
6. Foreign civilian standards which have not yet been taken over as international or regional standards.
7. Company standards provided by the contractor

If necessary a project a Project Manager can decide on exemptions from this priority. For any exemption a justification has to be provided.
b) **Who decides which standards/specifications are to be selected for armaments projects/procurement of defence materiel?**

The BWB Project Manager decides which standards/specifications are to be selected for his project. However, industry is encouraged to challenge any choice where it can show improvements in time, cost and performance.

c) **Who provides support to project managers in the selection of standards/specifications?**

The BWB Team (T5.5) responsible for international and national standardization provides support to BWB Project Managers in general and in interdivisional standardization issues. BWB’s Standardization Team is part of BWB’s Technical and Economical Support Division (T).

d) **Are there any standards mandatory for all or for particular armaments projects or types of defence materiel?**

Although a Project Manager in principle autonomous in its decisions, there is quite a number standards which include requirements of quasi mandatory character. Examples are requirements which are indispensable to assure interoperability and logistic support. Also requirements that are related to international standardization agreements (e.g. NATO standardized fuels) are mandatory in accordance with the hierarchy of standards described in VG 95821.

e) **Is there a documented process for selecting and specifying which standards should be used in acquisition contracts**

No; only for some specific areas like quality assurance, labelling, packaging etc. there are standardised text modules provided which shall be used when drafting BWB Technical Specifications (TL).

f) **May standards be modified/tailored for certain applications or must they be invoked in their entirety?**

Although standards are preferably invoked in their entirety in acquisition contracts, Project Managers are free to tailor them to their projects needs. Of course the tailoring of a standard is limited by interoperability requirements which are determined by international standardization agreements signed by Germany.

g) **If standards conflict, how is this resolved?**

This should not occur as long as the selection of standards cited in a project specification has been done thoroughly by the Project Manager’s team. Nevertheless conflicts may occur if standards have only been routinely cited in contracts without carefully checking their content and topicality in detail. In this case the problem has to be solved between the project manager and the contractor. If necessary, BWB’s Standardization Team (BWB - T5.5) provides support.
h) For standards (civil and military) that have to be purchased, are they bought/supplied centrally by your country’s MoD or is it delegated?

To answer to this question it has be distinguished whether these documents are needed by Bundeswehr personnel (this includes BWB Project Teams) or by the contractors which have been awarded a contract or are responding to an invitation for tenders.

**Bundeswehr personnel (including BWB):**

Through the Bundeswehr-Intranet Bundeswehr personnel (including BWB Project Teams) have free access to

- all German Military Standards (VG-Normen),
- all German Technical Specifications (BWB Technische Lieferbedingungen = TL),
- all German civilian Standards (DIN – Normen),
- all International and European civil standards that have been taken over by DIN (DIN EN; DIN EN ISO etc.).

Provision of the full text military and civil standards is covered by a contract between BWB, International Handling Service (IHS) and DIN. Within this contract BWB is provided with monthly updated CD-ROMs containing the full-text standards plus the appropriate retrieval software (PERINORM).

Civilian standards (e.g. SAE,) that are not covered by this contract are to be centrally purchased by the relevant section of BWB.

NATO Standardization Agreements (STANAG) and Allied Publications are either provided in full-text on the Bundeswehr Intranet or they may be ordered through BWB’s Standardization Team (BWB – T5.5).

Technical Rules for German Naval Vessels (Bauvorschriften für Schiffe = BV-Hefte) provided in full-text on the Bundeswehr Intranet.

**Contractors and other external requests for standards etc.:**

All German Military Standards (VG-Normen) and civil standards required by contractors have to be bought from Beuth Verlag, Berlin (the publishing house of DIN).

German Technical Specifications (Technische Lieferbedingungen = TL) are provided free of charge on BWB’s website (www.bwb.org). Full text documents of Technical Specifications (TL) dealing with weapons, ammunition etc. are **not** provided on the Internet website.

Technical Rules for German Naval Vessels (Bauvorschriften für Schiffe = BV-Hefte) have to be ordered from BWB’s „Projektabteilung See“ (Project Division Sea).

NATO Standardization Agreements (STANAG) and Allied Publications if cited in a contract awarded by BWB, will be provided to contractors free of charge through BWB’s Standardization Team (BWB – T5.5).
“Overview of the current national policies, procedures for standards and standard-like specifications used in defence procurement.“

GERMANY

1. Organisation

a) Describe the organisation responsible for your country’s military standards / specifications policy and how this organisation is integrated into / linked to the overall structure of your country’s Ministry of Defence.

Under the supervision of MoD it is the mission of BWB’s Team for Normalization / Standardization (T5.5) to develop policies and guidelines regarding standards and specifications used in the German Armaments Sector as well as to organize / coordinate all normalization / standardization activities within the German Armaments Sector. Team T5.5 is part of Service Branch T5 within BWB’s Division for Economic & Technical Service (T).
b) Provide some details on the organisation:

Organisational chart of BWB’s Standardization Team (as of October 2005)

Personnel resources for Standardization and Technical Specifications (as of 2005)

Total 11 Staff
7 in Team T5.5
4 in Team T7.1

Budget

approx. 630,000 € (incl. 7% VAT) for external support by the Deutsches Institut für Normung e.V. (DIN)

Costs for BWB-personnel etc. involved in standardization issues is part of the overall budget of the German MoD.
Location/address

Bundesamt fuer Wehrtechnik und Beschaffung
- T5.5 -
Ferdinand-Sauerbruch-Straße 1
D-56073 Koblenz
Germany

Points of Contact: Name/Phone/Fax/E-mail

**International Standardization**
(NATO, STANAG, Allied Publications etc.)

Stefan Otterbach
Tel: +49 (0) 261 400 27 23
Fax: +49 (0) 261 400 35 04
Email: StefanOtterbach@bwb.org
or bwbt5.5@bwb.org

**National & Civil Standardization:**
(German Defence Standards (VG); Techn. Specs (TL),
Co-operation with DIN, CEN etc.)

Hans Kopold
Tel: +49 (0) 261 400 20 11
Fax: +49 (0) 261 400 35 04
Email: HansKopold@bwb.org
or bwbt5.5@bwb.org

Homepage of the organisation:

www.bwb.org
c) Is the organisation also responsible for tasks other than standardization?

Yes: International Armaments Co-operation

International Armament Co-operation

- Co-ordination of co-operative Activities
  - NATO Nations, Partnership for Peace (PfP) and other Nations
    (excluding armament programmes and R&T)
  - Test & Evaluation (T&E) in Europe and Transatlantic
    - Bilateral between Test Centres
    - International Test Operation Procedure (ITOP)
      FRA, DEU, GBR, USA
    - T&E activities within Europe
      (4 Nation TEAM; WEAG; OCCAR; EDA)
    - US Foreign Comparative Testing Program (FCT)

d) Is there a process to increase the scope of national civil standards by adding specific defence material requirements into these standards?

It is part of BWB’s standards policy to include, wherever possible, requirements of the armaments sector into civil standards. For this cases experts from BWB or its agencies will become active members of the relevant civilian standardization bodies of the DIN. Only if it should turn out that armaments related requirements are too specific for an inclusion into a civilian standard, a military standard will be drafted.
e) **Describe the relationship of the organisation with other civil and military Standards Agencies.**

**Co-operation with civil Standards Agencies**

On the basis of a contractual agreement BWB cooperates closely with the German Standards Organisation DIN (Deutsches Institut für Normung). In accordance with this contract BWB and industry have established specific standardization bodies for the preparation of German Military Standards (VG-Normen). These standardization bodies are run by DIN. Their annual budget is financed by BWB, by industry and by DIN.

BWB representatives are also members in the board of these standardization bodies.

A representative of the Ministry of Defence is a member in the Executive Board of the Deutsches Institut für Normung e.V. (DIN).

Presently the DIN standardization bodies involved in the preparation of German Military Standards (VG-Normen) are:

- **NE** Normenstelle Elektrotechnik = Bundeswehr Standardization body for Electric/Electronic
- **NSMT** Normenstelle Schiffs- und Meerestechnik = Bundeswehr Standardization body for naval applications
- **NABw** Normenausschüsse Bundeswehr = Bundeswehr Standardization Working Groups for procedural standards and for those military standards that which may not fit into the scope of NE and NSMT

Each of these bodies are running an appropriate number of standardization working groups.
Co-operation with military Standards Agencies

BWB-T5.5 is active in supporting NATO standardization in the development of NATO Standardization Agreements (STANAGs) and Allied Publications through NATO - CNAD. Experts of BWB, its Technical Centers and Research Institutes are represented in quite a number of NATO standardization groups which are dealing with materiel standards.

BWB also maintains a close dialogue on standardization issues with most other NATO nations and with military standardization agencies of NATO PfP Nations.

f) How is civil and military standardization linked in your country?

As mentioned in the previous section, the linkage between civil and military standardization is provided through the contract between MoD and DIN.
g) Does your government subsidize or sponsor the civil standardization efforts of civil standardization organisations?

For support of civil standardization projects which are of general public interest, the Department of Economic and Labour contributed in 2002 about 3 Million € to the budget of DIN. Other departments and Governments of the German Federal States in 2002 contributed to the budget of DIN.

Additionally a number of other governmental / public organisations support the standards drafting and maintenance carried out by DIN’s standardization working groups by sending experts in these DIN working groups and also by commenting on draft standards to DIN.

2. Preparation, Issue and Implementation of standards and standard-like specifications

a) How and by whom is the need for a new standard/specification identified?

This is be done by a variety of people in MoD and Industry using a top down or a bottom up approach. It might be as a result of research, new project requirements or experience of using existing standards. The need for a new standard has to be formulated and justified using a questionnaire which is provided as annex to VG 95820. After approval by BWB T5.5 the new standardization project will become part of the annual programme of work of either NE, NSMT or a NABw.

b) Describe the processes and the responsibilities for the establishment of military standards/specifications in your country.

BWB’s policy is to make use of available civil standards wherever feasible, supplemented by our own requirements only when absolutely necessary. The process and responsibilities for the drafting and maintenance of German Military Standards (VG-Normen) are detailed in VG 95820 “Standardization - Bundeswehr-Standards - Principles, presentation, working procedure”.

The corresponding processes and responsibilities for German Technical Specifications (TL) are detailed in TL A-0100 “Principles, layout, requirements, general terms for the preparation of Technical Specifications (TLs)”.

c) How are international standardization agreements (e.g. NATO STANAGs) accounted for in military standards/specifications?

Authors of German Military Standards (VG-Normen) and other specifications are free to reference any relevant standard / publication in their work (rather than incorporate the texts that could cause copyright problems). But with regard to NATO STANAG there is also great number of cases where requirements which apply to a great variety of defence materiel (“horizontal requirements”) are implemented by incorporating them into the relevant national standard / specification. Examples are climatic data, interface data etc.
d) Which civil and/or military bodies are involved in the processes?

BWB-T 5.5 is responsible for policy and procedures for German Military Standards and Specifications and for the co-ordination with the German civilian standardization organisation DIN.

Other branches/sections of BWB, its Technical Centers and Research Institutes are involved in the drafting of standards / specifications by sending their experts into the relevant standardization bodies.

e) How is industry’s expertise taken into account during the development of military standards/specifications?

Industry is involved through direct participation in the work of the standards drafting committee or by commenting on the document during the final comment stage. Although BWB finally decides on the content of a Military Standards, consensus is sought through a transparent drafting process. Also during the process of drafting Technical Specifications – which is done by the relevant experts within BWB or its Technical Centers and Research Institutes – expertise from industry will be taken into account.

f) How and by whom is a new military standard/specification funded?

Costs for Military Standards (VG-Normen) are shared between MoD, Industry and DIN. BWB’s share is funded by means of the previously mentioned contract between BWB and DIN.

Drafting of Technical Specifications and Data Sheets (TL/TK) are BWB in-house processes which are covered by the overall defence budget.

g) How and by whom is the maintenance of the stock of existing military standards / specifications funded?

The maintenance of Military Standards (VG-Normen) is covered by the contract between BWB and DIN.

Maintenance of Technical Specifications (TL) are BWB in-house processes which are covered by the overall defence budget.

h) Who has intellectual proprietary rights of your country’s standards/specifications?

Beuth-Verlag GmbH, Berlin has the copyright for all of those German Military Standards which have been drafted by the DIN Standardization bodies NE, NSMT.

BWB has the copyright for those German Military Standards which have been drafted by the NABw. BWB has also the copyright for German Technical Specifications (TL) and for the Bauvorschriften für Schiffe (Technical Rules for German Naval Vessels).
3. Sources for Standards

a) Which databases exist for the different types of your country’s military standards/specifications?

For users within the Armed Forces (Bundeswehr) indexes of all current Military Standards (VG-Normen), Technical Specifications (TL) are provided via the Bundeswehr-Intranet.

Also provided via the Bundeswehr-Intranet are the full text documents of all TLs. The same documents – except TL’s for weapons, ammunition etc. – are accessible via BWB’s Internet website (www.bwb.org).

The index of all current Military Standards (VG-Normen) is also mirrored on BWB’s Internet Website.

The following table provides an overview on the different types of German Military Standards and Standards like Specifications in use by German Project Managers for procurement of defence materiel.

<table>
<thead>
<tr>
<th>German Military Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Document</strong></td>
</tr>
<tr>
<td>Verteidigungsgerätenorm (Defence Materiel Standard)</td>
</tr>
<tr>
<td>Werkstoffleistungsblatt (Material Data Sheet)</td>
</tr>
</tbody>
</table>

Number of documents: approx. 1.700 VG + WL
### German Standards-like Military Specification

<table>
<thead>
<tr>
<th>Type of Document</th>
<th>Abbreviation</th>
<th>Drafted by:</th>
<th>Maintained by:</th>
<th>Documents to be obtained through:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technische Lieferbedingungen (Technical Specifications)</td>
<td>TL</td>
<td>BWB experts with support by industry experts and by BWB Standardization Team</td>
<td>BWB Standardization Team</td>
<td>BWB Internet Website <a href="http://www.bwb.org">www.bwb.org</a></td>
</tr>
<tr>
<td>Bauvorschriften für Schiffe (Technical Rules for German Naval Vessels)</td>
<td>BV-Hefte</td>
<td>BWB experts with support by industry experts</td>
<td>BWB Project Division “SEA”</td>
<td>BWB Project Division “SEA”</td>
</tr>
</tbody>
</table>

**Number of documents:** approx. 3,300 TL + approx. 50 BV

**b) Are these databases accessible via a web site?**

<table>
<thead>
<tr>
<th>Accessibility of German Military Standards and Specifications</th>
<th>BWB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bundeswehr Intranet</td>
</tr>
<tr>
<td>Index of Civil standards</td>
<td>YES</td>
</tr>
<tr>
<td>Full Text Civil Standards</td>
<td>YES</td>
</tr>
<tr>
<td>Index of German Military Standards (V/G)</td>
<td>YES</td>
</tr>
<tr>
<td>Full Text German Military Standards (V/G)</td>
<td>YES</td>
</tr>
<tr>
<td>Index of German Technical Specifications (TL)</td>
<td>YES</td>
</tr>
<tr>
<td>Full Text German Technical Specifications (TL)</td>
<td>YES</td>
</tr>
</tbody>
</table>

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Bundesamt für Wehrtechnik und Beschaffung

Oktober 2005
c) Who maintains these databases?

BWB T5.5 respectively T7.1 maintain these databases.

d) What fields/data elements are used in the database (e.g. is it only the title of the standards, or title with date and version, or perhaps also the full text).

Index of German Military Standards (VG) on BWB’s Internet Website:

<table>
<thead>
<tr>
<th>VG-No.</th>
<th>Title</th>
<th>Date of Issue</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG 95820</td>
<td>Standardization; Bundeswehr-Standards; Principles, presentation, working procedures</td>
<td>01.04.2006</td>
<td>BWB T5.1</td>
</tr>
</tbody>
</table>

Index of German Military Standards (VG) on the Bundeswehr Intranet:

<table>
<thead>
<tr>
<th>VG/WL-Nr.</th>
<th>Titel</th>
<th>Ausgabedatum</th>
<th>Org.-Einheit</th>
<th>Dateien</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG 95820</td>
<td>Normungsarbeit; Verteilungsgerechte Normen (VG); Grundsätze Gestaltung Geschäftsführung</td>
<td>01.04.2006</td>
<td>BWB T5.1</td>
<td>VG820.pdf, VG821.pdf</td>
</tr>
</tbody>
</table>
Index of Technical Specifications (TL) on BWB’S Internet Website:

Index of Technical Specifications (TL) on the Bundeswehr Intranet:
e) Are the full-text documents of the standards/specifications accessible through these databases?

See table under para b)

f) Do these databases also include classified information/documents?

Military Standards (VG), Specifications (TL) and Data Sheets (TK) contain only unclassified data. Technical Specifications (TL) dealing with weapons / ammunition etc. – although they are not classified - are not accessible as full text documents via the internet. These documents have to be requested by industry or other external users by E-Mail with an appropriate justification enclosed.

g) How is access to classified information/documents provided for?

Not applicable, since there are no Military Standards, Specifications or Data Sheets containing any classified data.

h) Who has access to these databases?

All users of the world wide web have unrestricted access to the BWB Internet website www.bwb.org.

Only users within the Bundeswehr (this includes the Armament Sector) have access to the Bundeswehr Intranet and the Intranet sites of the linked offices.

i) Are external users (e.g. industry) of these databases and the related documents charged for their use?
   If yes: What are the fees?

No; users of the BWB Internet website have free unrestricted access to all information on this website (www.bwb.org)

j) Is it possible to order hardcopies of military standards/specifications.
   If yes: How are the standards/specifications ordered and what are the prices for these documents?

Yes, it is possible to order hardcopies of military Defence Standards but this is discouraged in favour of electronic downloads from the BWB website. Requests for a hardcopy version should be telephoned, faxed or emailed to the BWB - T5.5.
4. Distribution and use of military Standards/Specifications

a) How is information about new/amended/cancelled military standards/specifications internally and externally distributed?

Information on new/ amended/ cancelled/ obsolescent German Military Standards (VG) and Technical Specifications (TL) (except those for weapons / ammunition etc.) is published monthly by DIN through the Beuth Verlag GmbH, Berlin in the “DIN Mitteilungen – Zentralorgan der deutschen Normung”. (ISSN 0722-2912)

It is also possible to subscribe (free of charge) for an update service on new/ amended/ cancelled German Technical Specifications (TL) via the BWB Website:

The Technical Specifications database on the BWB Website is immediately updated as soon as a new/amended document has been finally approved or when an obsolete document has been cancelled.
b) Are military standards/specifications routinely checked for necessary revisions?

Yes, German military Standards (VG) and Technical Specifications (TL) shall be reviewed after 5 years whether they need to be updated. This review will be routinely done by the relevant standardization bodies of DIN for German Military standards (VG). Also the content of Technical specifications (TL) have to be checked every time when they shall be used with a tender for bids.

c) Are military standards/specifications routinely translated into other languages?

German Military Standards (VG) and Technical Specifications are published in German. It is the decision of the respective standardization working group if a German Military Standard (VG) will also be published in English. If this is the case than the standard will be either bilingual or there will be separate documents for the two languages.

The availability of German Military Standards translated in English will be increased in the future.

German Technical Specifications (TL) are drafted in German but it is planned – depending on the availability of in-house translation resources – to translate nearly all of them into English. A number of translated TLs is already available on BWB’s Internet Website.

d) Are military standards/specifications available electronically?

All German Military Standards (VG) and Technical Specifications (TL) are available in pdf format.

An increasing number of NATO STANAGs is electronically (pdf-Format) available to users within the Bundeswehr via the Bundeswehr-Intranet. This database is also maintained by BWB T5.5.

An excellent source of information on NATO STANAG and Allied Publication is also available on the Bundeswehr Intranet by means of the Standards Management and Information System (STAMIS).

e) Is there a monitoring process to establish which standards are being used for particular projects or types of defence materiel?

No, it is the Project Managers decision to choose which available standards are applied for their projects. If required, BWB-T5.5 supports BWB Project Managers with standardization expertise.
Is there a “help desk“ to aid/support users of standards?
If yes: What are the conditions to use the help desk (internal/external users)?

BWB does not run a specific “help desk”, but questions by internal or external users may be directed to BWB-T5.5 resp. T7.1 either by phone, Fax or E-Mail. POCs (see under 1. b).