A snapshot of defense ERP utilization and future developments around the world. This is not an exhaustive list but is simply a collection of known components provided for the purposes of illustrating the complexity of ERP systems.

**Australia:** reducing cost and complexity and enhancing financial accountability

<table>
<thead>
<tr>
<th>ERP solution</th>
<th>Defence business</th>
<th>Description</th>
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<tbody>
<tr>
<td>Military Integrated Logistics Information System (MILIS)</td>
<td>Logistics</td>
<td>— 9,000+ users in 160 locations, managing demands, purchasing, warehousing, distribution and inventory maintenance&lt;br&gt;— Tracking 650,000 types of equipment; over US$9 billion, supporting operations in the Middle East, East Timor and the Solomon Islands&lt;br&gt;— Integrated capability across 100+ logistic information systems&lt;br&gt;— Based on military off-the-shelf Mincom Ellipse system. Core software complemented by interfaced applications including: Defence-built CENCAT (NATO cataloguing and codification), NAVALLOW (Navy allowance management), CVS (cargo visibility), and commercial systems: AIMS (inventory optimisation software) and SLIMS/AMPS (shipboard inventory management) and aviation maintenance Computer Aided Maintenance Management System (CAMM2)&lt;br&gt;— Withdrawal of vendor support is driving wholesale rationalization of current environment</td>
</tr>
<tr>
<td>SAP</td>
<td>Facilities management</td>
<td>— Estate and facilities provided by a SAP environment&lt;br&gt;— The ADF estate is a vast, geographically dispersed, absorbing large proportion of support and infrastructure costs.</td>
</tr>
<tr>
<td>PeopleSoft</td>
<td>HR and Payroll</td>
<td>— HR functionality currently being upgraded, with tech refresh and re-hosting away from mainframe&lt;br&gt;— Later phases targeting business intelligence and payroll integration, removing aging, in-house legacy payroll application.</td>
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<tr>
<td>SAP</td>
<td>Warehouse management</td>
<td>— Wholesale inventory management contracted out to Australian Logistics and freight company Lynfox&lt;br&gt;— Lynfox conducts warehouse management system (WMS) function on SAP software identical to its own&lt;br&gt;— Application currently being interfaced to the greater MILIS environment</td>
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### Australia: (continued)

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</table>
| SAP          | Finance and reporting | — SAP financial management system (ROMAN) includes 451 controls (105 critical)  
— Each control documented and will be updated for latest software releases  
— ROMAN based on SAP R/3 application, covers corporate accounting and reporting, used in Australia, Washington and London  
— Primary budgeting and financial reporting tool BORIS (based on SAP Strategic Enterprise Management and Business Warehousing applications) enables input of Group budget data and the development of consolidated Defense budgets  
— BORIS is spreadsheet-based for output, financial statement, monthly variance and expenditure aggregation  
— ROMAN interfaces with greater MILIS environment and other major applications. |

### Canada: reducing cost and complexity and integrating existing environments

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| Defence Resource Management Information System (DRMIS) | Logistics, Finance and Maintenance | — Defence Resource Management Information System (DRMIS) used by Department of National Defence (DND) and contractors to support operations and training  
— Material and financial system of record; also reports performance  
— Supported via In Service Support (ISS) contract to augment Canadian Armed Forces (CAF) support teams, and expand DRMIS  
— CAF transitioning from separate environments to streamline processes, cost and complexity generated by legacy CFSS inventory system, MASIS maintenance and financial environments  
— DRMIS is complex SAP implementation, with 20,000+ users in Canada, on navy vessels, and abroad  
— Plans to further rollout DRMIS for property and maintenance management of additional fleets, and other expansion initiatives, ensuring continuity of support. |

Peoplesoft | HR | — Utilized for HR functionality, integrated with legacy payroll system  
— Programs to upgrade and refresh entire HR and Payroll capability. |

### Denmark: producing sustainable, integrated solutions

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| DeMars (SAP) ERP | All branches (Navy, Army and Airforce) | — Wall-to-wall ERP solution including purchase of assets and consumables; life cycle asset maintenance; all related logistics, organizational structures, personnel management, financial and cost accounting  
— Solution includes most of SAP modules: Funds Management (FM), Cost Controlling (CO), Asset Management (AM), Financial Accounting (FI), Human Resource Management (HR), Plant Maintenance (PM), Material Management (MM); Sales & Distribution (SD)  
— Developed continuously but main elements in place since 2004. |

DeMars (SAP) BI | All branches (Navy, Army and Airforce) | — Business intelligence solution based on SAP Business Information Warehouse technology  
— Data warehouse with data from most elements from DeMars ERP solution; reporting across all modules  
— Central reports maintained and governed centrally; needs to develop ad hoc reporting at end user level. |
**Bundeswehr:** developing new capabilities and modernizing the total logistics function, via a 10-year program to better meet Germany’s military objectives

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| SAP          | All Defense business areas including Finance, Logistics, Infrastructure and Reporting | — HERKULES project involves Siemens and IBM  
— Data centers, software & applications, PCs, telephones, voice & data networks being modernized  
— Includes maintenance & support of desktop software, SAP software as large-scale, back end, web-based applications belonging to intranet, and communication programs such as Lotus Notes  
— PKI (Public Key Infrastructure) will ensure documents sent electronically comply with signature and encryption regulations  
— Siemens will operate and modernize decentralized systems at more than 1,500 German locations, including 140,000 PCs, 7,000 servers, 300,000 fixed-network telephones and 15,000 mobile phones  
— Siemens also manage local and inter-regional data & voice networks. |

**UK Ministry of Defence (UKMOD):** modernizing logistics, acquiring deployable architecture and reducing cost and complexity

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| Oracle       | Inventory management | — Logistics capabilities use Oracle applications and technology  
— Industry Systems integrator working through the modernization program. |
| IFS          | Maintenance       | — James program commissioned development of IFS based maintenance system  
— Land environment maintenance rolled out, with ongoing consideration for aviation maintenance. |
| Oracle       | HR                | — E-Business Suite (EBS) HR sits across much of HR, including the Atomic Weapons Establishment |
| Oracle       | Finance           | — EBS finance sits across much of finance and procurement organizations. |

**US Department of Defense (USDOD):** increasing capability, reducing cost and complexity, achieving deployable architectures and force readiness and enhanced security

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| SAP          | US Navy (USN) Inventory and Maintenance | — Logistics has extensive SAP environment across Naval Sea Systems Command (NAVSEA), Naval Supply Systems Command (NAVSUP) and Naval Air Systems Command (NAVAIR)  
— Extensive 3rd party applications in dockyards and maintenance depots; ongoing integration across the organization  
— Introduction of F-35 Joint Strike Fighter (JSF F-35) will see OEM vendor managed system (Autonomic Logistics Information System (ALIS)) for platform supply, logistics and reporting. |
| Oracle       | US Marine Corps (USMC) Inventory | — Moved from ERP to a Global Combat Support System (GCSS), to run on its deployed tactical communications network  
— System incorporates technology disrupters, with data moved to middleware layer to allow store, forward and synchronize capabilities for disrupted/disconnected communications  
— Ongoing modernization and cloud adoption. |
### US Department of Defense (USDOD): (continued)

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| Oracle       | US Air Force (USAF) Inventory | — Aiming to modernize and align all logistics and maintenance operations Expeditionary Combat Support System (ESS) program broken into smaller components  
— First phase of new modernization program underway at commodity level  
— Air Force also introducing ALIS application for JSF F-35. |
| SAP          | US ARMY          | — Many legacy applications within logistics and finance; operational core element is GCSS (SAP)  
— Force Readiness reporting and decision support improving under Army Force Generation (AFORGEN) program, with service-oriented architecture (SOA) for real-time data analysis and reporting across most applications. |
| Oracle       | Financial management across most DoD business entities | — Oracle system draws all GLs together from multiple finance systems (SAP, Oracle, Peoplesoft, etc) to DoD level  
— Utilizes Oracle for the consolidation and analysis of all DoD financial management, payroll and reporting  
— Significant ongoing modernization and rationalization. |
| Peoplesoft   | HR Management across most DoD business entities | — HR functionality, payroll, recruiting and Veteran Affairs functions executed within each of the Services, National Guard and US Coast Guard  
— Ongoing modernization involves rationalization of multiple systems. |
| SAP          | Defense Logistics Agency (DLA) | — SAP core system with bespoke warehouse management and distribution system. |

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