Unlock new insights in real-time with SAP HANA
The best platform for SAP HANA applications

HANA is a go-to element when it comes to evolving SAP landscapes and, more widely, for all Big Data environments where very high speeds are essential. Its potential and benefits provide both performance and innovation for the entire IT landscape.

The BullSequana S for SAP HANA platform delivers unique flexibility, unmatched scalability and best-in-class quality of service in the x86 world, essential criteria for in-memory databases and real-time computing. Combined with expertises and value-added services from Atos, this forms an end-to-end solution for successful SAP HANA deployments in even the most critical environments. Moreover the BullSequana S features Intel® Xeon® Scalable processors.

Designed to boost SAP HANA applications

**Perfect scalability**
As the path to HANA often begins with small deployments that become progressively bigger, choosing a scalable solution is key. The same BullSequana S technology can be used for any SAP HANA deployment - from 384GB to 12TB of RAM. This protects investments, by providing a migration path for any SAP HANA architecture, at any scale.

**Maximum flexibility**
The option of re-using existing environments (e.g. storage) and partitioning the system for cohabitation of existing and new environments creates the flexibility needed to reduce TCO. BullSequana S is certified for SAP HANA, whether in appliance (pre-integrated hardware, storage and software) for fast deployment, backed by central support and agreed performance levels, or also in Tailored Datacenter Integration (TDI) mode.

**Mainframe-class reliability**
Reliability and resilience are essential where in-memory is concerned. Memory failure protection features make a real difference. PCIe components can be hot-plugged or hot-swapped to facilitate maintenance activities while providing best-in-class high availability.

**Future ready**
BullSequana S provides the possibility to side classical CPUs with GPUs for later developments, like SAP Leonardo.

Supported by a worldwide network of skills

Atos is strongly committed to delivering advice and integration/migration expertise to ensure successful HANA implementations. Building on a long and close relationship with SAP, serving leading SAP customers, Atos has developed a unique approach helping enterprises fully benefit from the value of HANA.

Atos leverages its expertise to design, optimize and deploy complex SAP projects, and provides end-to-end solutions from infrastructure design and architecture optimization to tailored deliverables.

**Impressive SAP expertise**
13,000 SAP experts in 73 countries
6,200 + implementations
Over 3,000,000 end-users supported

The largest SAP HANA implementation in the world

Atos is supporting organizations of various sectors all over the world in their SAP HANA deployments. The most representative example is Atos helping Siemens to deploy the largest SAP HANA implementation in the world, which supports over 100,000 Siemens personnel and impacts every business unit within the Group.

The benefits of BullSequana S for SAP HANA

- **Adapt to change quickly** – Scalable and open solution.
- **Reduce cost and save implementation time** – One-fits-all solution: from small configurations to very large.
- **Increase efficiency** – Designed to deliver high performance 7 days a week, 365 days a year.
Find the configuration that fits your need

### MAX SERVER MEMORY SIZE

<table>
<thead>
<tr>
<th>Model</th>
<th>Up to 3 TB RAM</th>
<th>Up to 6 TB RAM</th>
<th>Up to 12 TB RAM</th>
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<tbody>
<tr>
<td>BullSequana S200</td>
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<tr>
<td>BullSequana S400</td>
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<tr>
<td>BullSequana S800</td>
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### SUMMARY OF ARCHITECTURE AND CHARACTERISTICS

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processors</td>
<td>Intel® Xeon® Scalable processors (up to 28 cores/38.5MB L3) with 8280 and 8276 models</td>
</tr>
<tr>
<td>Number of BullSequana S modules</td>
<td>1 BullSequana S server with 1, 2, or 4 modules with 2 x CPUs (model name are respectively S200, S400 and S800)</td>
</tr>
<tr>
<td>Memory</td>
<td>32, 64 or 128GB DIMM units; from 384GB to 12TB in total depending on the model</td>
</tr>
</tbody>
</table>
| Disk / internal and external storage | Appliance with internal storage (only with 8176M and 8176)  
  - Boot: 2 x 400GB SATA SSD 2.5" (RAID 1) with embedded controller  
  - SAP HANA pool: 1.2TB SAS SSD / 3.2TB SAS SSD 2.5" from 2 to 32 based on minimal capacity requirements  
  - Appliance with external storage:  
    - Boot: Boot on SAN  
    - SAP HANA pool: 1 Dell EMC Unity® 450F (All Flash), 25P, 64GB cache per SP with 1 pool of 6 to 25 disks (152/238/4768TB 2.5" SSD) depending on model  
  - TDI mode:  
    - Boot: choice between Boot on SAN or boot on 2 x 400GB SATA SSD 2.5" (RAID 1) with embedded controller  
    - SAP HANA pool: on any storage in SAP TDI certified list – provided apart |
| Network interfaces        | Ethernet 1Gb/s (base-T) and 10 Gb/s (Base-T, Twinax, optical), FC 16Gb/s (for external storage) |
| OS / Virtualization       | Suse® SLES 12SP4 for SAP HANA / for SAP Solutions  
  S200, S400 & S800 are certified by VMware for ESXi 6.0/6.5, which can be used for SAP Solutions / HANA TDI virtualized environments according to SAP rules |
| Rack space required       | 2U (S200), 4U (S400), 8U (S800) + SAN (Dell EMC Unity 450F in appliance mode) |

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SoH (Suite on HANA) is the name for SAP business suite using HANA as a database  
S4 HANA is the new SAP Business Suite with highly optimized data structures taking full advantage of the SAP HANA platform  

**Scale out up to 16 nodes, includes HA capabilities for 4/8 CPUs for BWoH/BW4H/DM (up to 16*3=48TB)**

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*max RAM size in single node*
Atos is a global leader in digital transformation with over 110,000 employees in 73 countries and annual revenue of over €11 billion. European number one in Cloud, Cybersecurity and High-Performance Computing, the Group provides end-to-end Orchestrated Hybrid Cloud, Big Data, Business Applications and Digital Workplace solutions. The group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Syntel, and Unify. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index. The purpose of Atos is to help design the future of the information technology space. Its expertise and services support the development of knowledge, education as well as multicultural and pluralistic approaches to research that contribute to scientific and technological excellence. Across the world, the group enables its customers, employees and collaborators, and members of societies at large to live, work and develop sustainably and confidently in the information technology space.

Unify is the Atos brand for communication and collaboration solutions. At the core of the Atos Digital Workplace portfolio, Unify technology enables organizations of all sizes to transform the way they collaborate, creating a more connected and productive workforce which can dramatically improve team performance, individual engagement and business efficiency.

Find out more about us
atos.net
atos.net/career

Let’s start a discussion together

For more information atos.net/BullSequanaS4Hana