Summary
System architecture performance is one of the most critical factors for measuring the success of a Teamcenter® software implementation. Performance issues can be triggered by a number of factors in the infrastructure, including servers, clients and physical network. Teamcenter configuration, third party software, security layers and use cases also need to be optimized based on the deployed solution.

Teamcenter performance analysis (TCPA), which is an Advanced Technical Services (ATS) offering, helps the customer understand the current deployment and to identify and address issues so they can plan accordingly.

Scope
This service reviews and validates key aspects of implementation at the system level by accomplishing the following:

• Review sizing of the existing infrastructure
• Review software configuration parameter settings for creation of baseline performance
• Review test cases that have been previously defined and documented by the customer
• Generate a performance baseline with the defined test cases

Benefits
• Identify potential system and operational issue areas
• Mitigate unexpected or growing usage and system load
• Recommend an action plan to improve production system health
• Help maintain or improve high user acceptance and satisfaction level
• Assist planning of additional Infrastructure budget if necessary
• Plan for unexpected system issues

Overview
Siemens PLM Software experts will work with assigned customer project members, who are typically system administrators and database administrators (DBA), to assess system health status focusing on performance. Siemens PLM Software experts examine the deployment infrastructure, system configuration and investigate the identified use cases in which performance issues were reported. The TCPA will deliver a document that identifies performance bottlenecks, analyzes the cause of issues and can be used to improve performance by recommending solutions.
Teamcenter performance analysis

**Benefits continued**
- Improve performance so as to reduce end users complaint
- Gain more ROI by improving system productivity and optimizing hardware resource utilization

- Validate the configuration (hardware and software) using performance metrics
- Iteratively run the cases in a test environment, review the performance, make adjustments, rerun and review performance
- Review the components of the production environment to identify potential bottlenecks
- Provide recommendations and advice on accepted and proven metrics and methods that can be used to monitor and maintain the health of the production infrastructure
- Discuss go-forward activities and infrastructure recommendations
- Report findings in a performance review document

Performance issue diagnoses focus on the following:
- Analyze performance issues and identify performance bottlenecks in system components, which typically includes the database server, volume server, storage, Teamcenter server, web server and typical client and network architecture
- Issue root cause analysis to provide solution or workaround to the issues
- Recommend database maintenance or optimization by working with the DBA’s team
Prerequisites
Teamcenter performance analysis requires the following:

- Customer to provide the necessary information requested by the Siemens PLM Software expert prior to the start of onsite services
- Key information technology (IT) personnel responsible for the network, including Teamcenter system, web, security and database administration, to be assigned to work with the Siemens PLM Software expert

Duration
Typically, requires three weeks duration, including:

- One week offsite preparation
- One week for onsite activities
- One week to author findings and recommendations

Deliverables
Teamcenter performance analysis provides the following deliverables:

- Presentation of review activities summary
- Teamcenter performance analysis report together with a final closing conference call for questions and answers and follow-up action discussion

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