



TECHNIA

ADDNODE GROUP

Expert Services Offering: Performance Review

EXPERIENCE MATTERS

Performance Review – why and when

Preventing and solving performance problems can sometimes be complicated. There are many different components that have to work well together in order for the system to be responsive and stable. It needs to be aligned with the size of your data and the usage you have. The same symptom can be caused by a number of different root problems. There can be multiple problems at the same time. And problems might not be where they first seem to be.

A performance review can be done preventive, to make sure necessary parts of the system, infrastructure are working as they should together. Or to foresee changes that are expected to come, such as growth in users or usage and data.

Or a thorough performance review can be necessary in case of performance problems that are particularly hard to solve. If you or others have tried to find the resolution, but you haven't been able to find it. This is a good time to use a structured and proven approach to find solutions.

We normally use the same basic approach but always adjust to the specific reasons you have for reaching out to us.

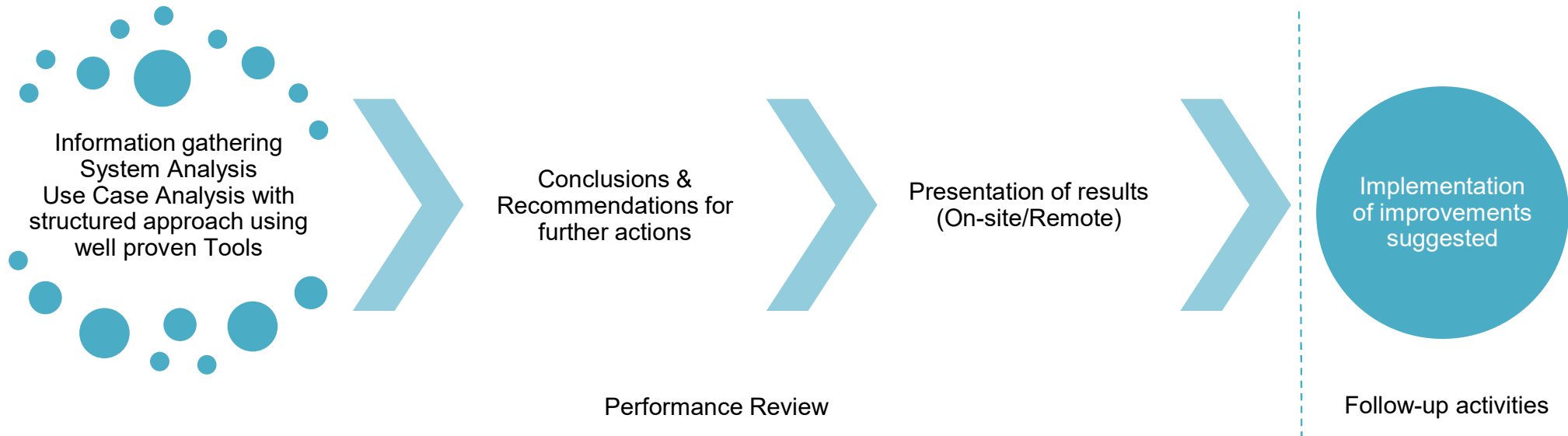
The Review will give you the answer to what parts of your PLM system are working as expected with regards to performance, and where and what types of improvements will give the most value going forward.



Performance Review Process

Since performance problems with similar symptoms can exist for a lot of different reasons the first step is always to gather enough information to get a good overview of the status of areas of specific interest to performance. We do this with the help of existing information and TECHNIA tools specifically developed for the purpose (Server Monitor & Profiler). Analysis of the information is made combining best practices and extensive experience from working with 3DX performance improvements. Conclusions with recommendations for further actions are delivered in a report and with an on site or remote presentation.

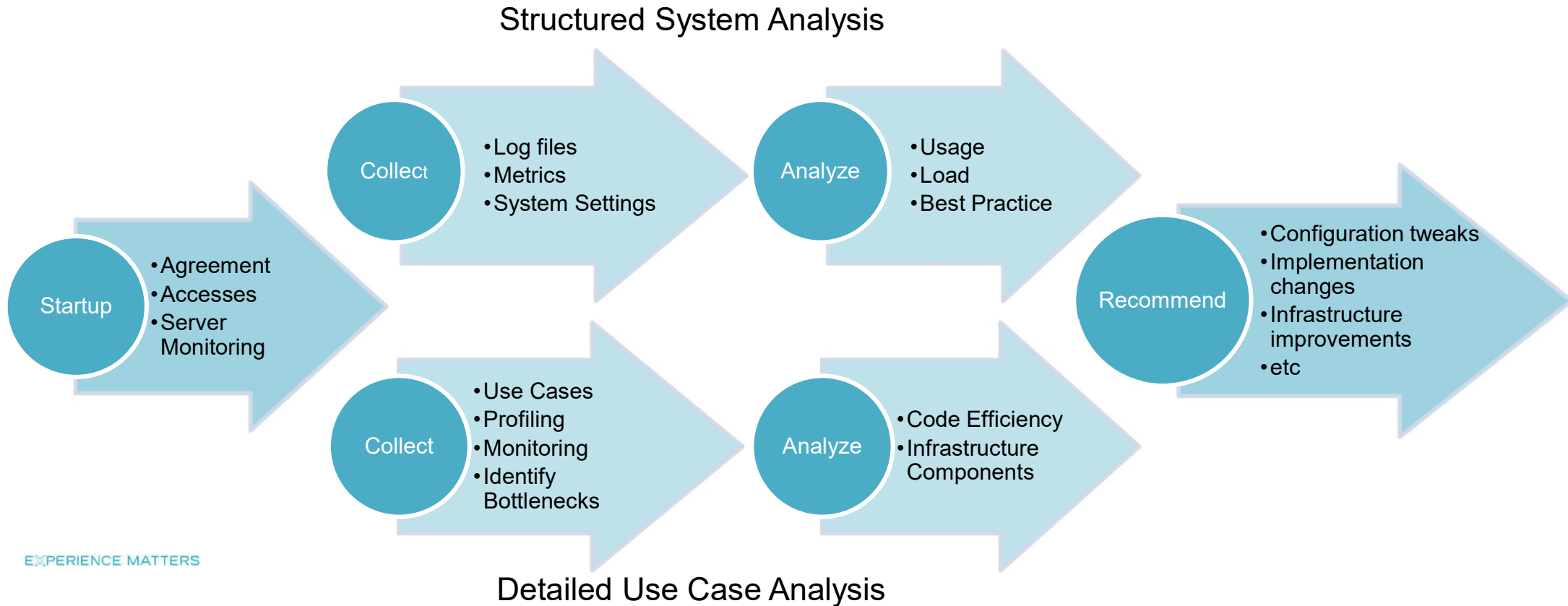
Dept of analysis will be time boxed according to agreement. Typically minimum 13 man days is recommended.



Analysis Approach

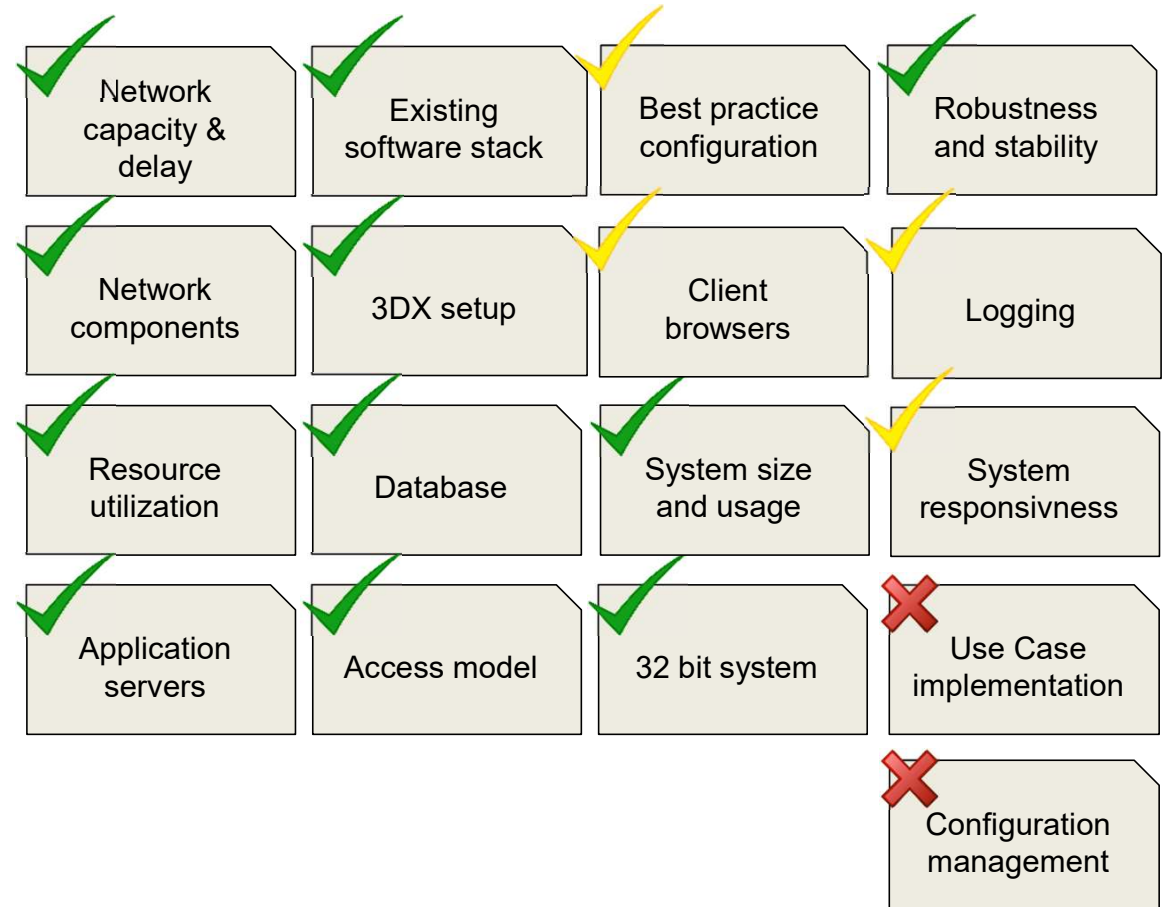
For best results the review is conducted with two different, but complementing approaches:

- Structured system analysis giving an overview of the status of different aspects of the system that can impact performance
- Detailed use case analysis of identified areas



Structured System Analysis – Get the overall view first

- Get the overall view first
- High level review of areas potentially affecting performance
- Collection of relevant Information with the help of existing sources and Server Monitoring
- Understand and deep dive in areas of concern



Detailed Use Case Analysis – Understanding the details

- Pinpoint the most problematic use cases
- Software (Profiler) installation in suitable environment
- Profiling and analysis of the use cases
- Gives in dept understanding of the detailed "background" activities for the selected use cases, their duration, their occurrence as well as other details
- Comparison with expected/ preferred activity for the specific or similar use cases.

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initInterface.bosInterface	12:40:21,719 AM	12:40:21,719 AM	.000	.000
ps_ColoringRule:saveColorRule	12:40:21,719 AM	12:49:33,744 AM	9:12.025	9:12.025
print transaction	12:40:21,750 AM	12:40:21,750 AM	.000	.000
print transaction	12:40:21,750 AM	12:40:21,750 AM	.000	.000
allocate context	12:40:21,750 AM	12:40:21,750 AM	.000	.000
start update transaction	12:40:21,750 AM	12:40:21,750 AM	.000	.000

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