

MIB Navigate Performance Testing Overview

Final Version 1.0 – Updated for VS&TD Release

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1. Performance

This document provides an overview of the regular performance (load) testing as part of the Navigate programme.

1.1. Scope of performance testing

We conduct regular comprehensive performance (load) testing on our MIPD & VS&TD applications in Navigate. In performance testing, we generate realistic user traffic and data volumes using existing volumetrics and projections for growth. We identify potential bottlenecks in the system, such as database queries or API endpoints, that could cause degradation under heavy loads. We then evaluate the application's capacity to manage heightened user demands and data throughput efficiency. We set explicit performance standards such as, response time thresholds that must be achieved before launch, which are benchmarked against Solera MIAFTR and MIPD Navigate production volumes. We also confirm the overall stability and dependability of the system during prolonged high-load scenarios.

1.2. Purpose of performance testing

We regularly undertake performance testing to proactively identify and resolve any potential issues, thereby safeguarding users from disruptions like outages or performance issues on Navigate. This ensures the system robustly handles both anticipated and peak loads without strain or unresponsiveness, ultimately delivering an efficient and seamless user experience.

1.3. Benefits of performance testing

The benefits of performance testing extend to both MIB and customers. For MIB, it provides heightened confidence in minimising performance-related bugs and outages in production to reduce urgent interventions. This promotes a more resilient application. For customers, it means efficient load times, responsive interactions, and reduced downtime to keep services reliably accessible.