Hewlett Packard Enterprise

lusis Payments **T A N G O**

Solution brief

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HPE NONSTOP FOR LUSIS TANGO

Modern TANGO platform leverages 100% fault-tolerance of
HPE NonStop to provide a complete, future-ready payments solution

Modern, robust, and flexible
From service-oriented architecture
(SOA), to open APIs and microservices,
together with OS, database, and
processor independence

High availability and performance
Built-in high-availability components
of TANGO coupled with the
fault-tolerance, performance, and
scalability of HPE NonStop

Long and proven partnership
Long and close relationship between
Hewlett Packard Enterprise and Lusis
delivering solutions for banking,
payments processing, and retail
environments

HPE NonStop for Lusis TANGO

- Provides 100% fault tolerance[1] for
  uninterrupted application availability

- Offers built-in transaction support
  with atomicity, consistency, isolation,
  durability (ACID) properties

- Has systems with as few as two CPUs or
  scale out to thousands through built-in
  clustering and near-linear performance

- Offers open application development
  environment with support for
  open-source frameworks and
  programming interfaces

- Deploy as dedicated software and
  hardware or as software only in a
  VMware® private cloud

- Capitalize on deep expertise, global
  delivery, and support

- Provides full range of financing and
  lifecycle asset management services
  to help optimize investment and
  preserve cash

[1] IDC Worldwide AL4 Server Market
Shares, 2019: Fault-Tolerant Systems
Become Digital Transformation Platforms;
July 2020, IDC #US46640020

A TRULY INTEGRATED TRANSACTION PROCESSING ENGINE

Lusis payments, the innovative provider
of software and services to the payments
industry, leads with TANGO, an online
transaction processing engine for
mission-critical 24x7 solutions
including payments, retail, loyalty, finance,
utilities, and transport. Payment processors
across the globe rely on the total flexibility,
high-performance processing, and built-in
high availability of TANGO for acquiring,
routing, switching, authenticating, and
authorizing transactions across multiple
channels, in a multi-institution environment
across geographies. TANGO offers an open,
integrated infrastructure that is highly
scalable and efficient due to the genuine
approach to SOA, which significantly
reduces complexities and improves business
responsiveness. With these attributes of
TANGO, coupled with the fault-tolerance,
near-linear scalability, and unmatched
performance of HPE NonStop systems,
the combined solution has been the
go-to choice for many financial institutions
(FIs) and payment processors to satisfy
their mission-critical demands of highest
efficiency and reliability.

FIGURE 1. Lusis TANGO

A COMPLETE PAYMENTS SOLUTION BUILT FOR THE FUTURE

While payment processing is constantly
evolving, the fundamentals have not
changed—perform transactions at high
speed with round-the-clock availability
and absolute security. Changes come in
the form of new financial services—how
they are delivered and managed with
increasing frequency. To keep pace in
a dynamic industry and outperform
competitors, you need modern, flexible
solutions that help streamline new offerings.
TANGO's state-of-the-art technology and
unparalleled configurability due to its
microservices-based architecture foster
creation of new business services rapidly,
enable interoperability with in-house and
third-party applications, and facilitate
support for current and future payment
components. And HPE NonStop is always
adapting, such as hardware-independent
HPE Virtualized NonStop in a VMware
environment as well as support for rich
tools for DevOps. Together, Lusis TANGO
on HPE NonStop helps keep your payments
processing environment at the forefront of
financial services and customer experience.

TANGO ARCHITECTURE— FLEXIBLE, OPEN, AND HIGHLY AVAILABLE

A TANGO system is a set of services (SOA)
implemented in multi-instance process
modules and federated by the dispatcher
(load-balancer) with communications
facilitated via a universal data bus.
The data bus provides a standard data
format (Type/Length/Value [TLV]) for all
messages exchanged between services.
Hence, TANGO Payments Server has no
restrictions on transaction types: both
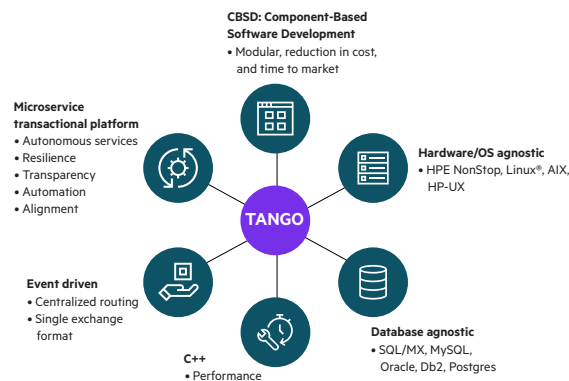standard and nonstandard transactions

Your trusted payments solution

- Multichannel, multi-institution, multilanguage, and multicurrency
- Complete transaction security support—EMV, 3DES
- Supports Dynamic Currency conversion (DCC)
- ISO 8583, ISO 20022, XML

TANGO has been benchmarked to support more than 10,000 transactions per second (TPS).[2]
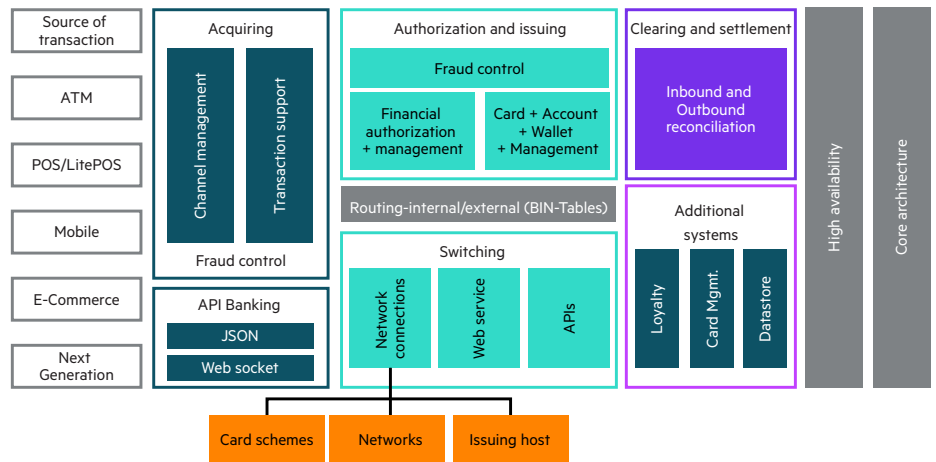

[2] lusispayments.com/benchmarks.html

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FIGURE 2. TANGO Business Framework

can be easily defined in the system, as can new transaction types and message flows. This flexibility easily accommodates new requirements and integration of new payment opportunities including external services for fintech APIs.

TANGO's specialized high-availability components integrated within the platform provide an active/active systems integration without the need for third-party solutions. The active/active support within TANGO allows any given terminal to connect to any of the application servers to provide 24x7 availability to customers.

And to further the advantages, TANGO's architecture deeply integrates with some of the modern and core fundamentals of HPE NonStop such as use of OSS and TMF-protected SQL/MX database, and full exploitation of HPE NonStop "process pair" feature through its hypervisor process. The dispatcher functionality works together with HPE NonStop TS/MP to provide scalability and availability, and supports the active/active configuration. This further establishes HPE NonStop as one of the most ideal platforms to run your TANGO payments solution.

HPE NONSTOP—THE PLATFORM OF CHOICE

For over four decades, HPE NonStop has been helping financial institutions manage, transform, and optimize complex transaction environments—fueling growth and innovation

without interruption. HPE NonStop systems are rated availability level 4 (AL4), the highest according to industry analyst firm IDC and made possible by the 100% fault-tolerant HPE NonStop architecture. A fully integrated software stack includes the HPE NonStop OS, OSS file system, end-to-end security, and one of the most scalable and resilient databases in the world, HPE NonStop SQL/MX.

HPE NonStop systems utilize massively parallel processing (MPP) coupled with a built-in management framework to speed transactions at high volume while helping ensure data integrity. And support for modern languages, interfaces, and the popular Eclipse-based developer environment help accelerate application design and new payment services.

PARTNERING FOR YOUR SUCCESS

Lusis is a valuable and certified member of the HPE NonStop technology partner program and works closely with HPE engineering and support organizations to deliver joint, high-value solutions. HPE and Lusis provide a winning combination to meet your payment processing needs and achieve your business objectives.

LEARN MORE AT
hpe.com/info/nonstop
lusispayments.com/