Quality that Generates Trust

Intel® Server Products Quality & Validation Value Proposition

Know Who's In Your Server.
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Intel® Server Products
Quality Value Proposition

- Intel employs **best known quality methods** through the entire product life cycle, driving predictable process development

  - Extensive product and quality requirements

  - Performance measurements

  - Data monitoring and tracking

  - Quality feedback process and resolution

- **Design for Quality and Reliability (DFQ&R)**

  - Incorporate key learning's into successive product designs

  - Formal processes to help ensure functional development teams use information by complying with documented rules

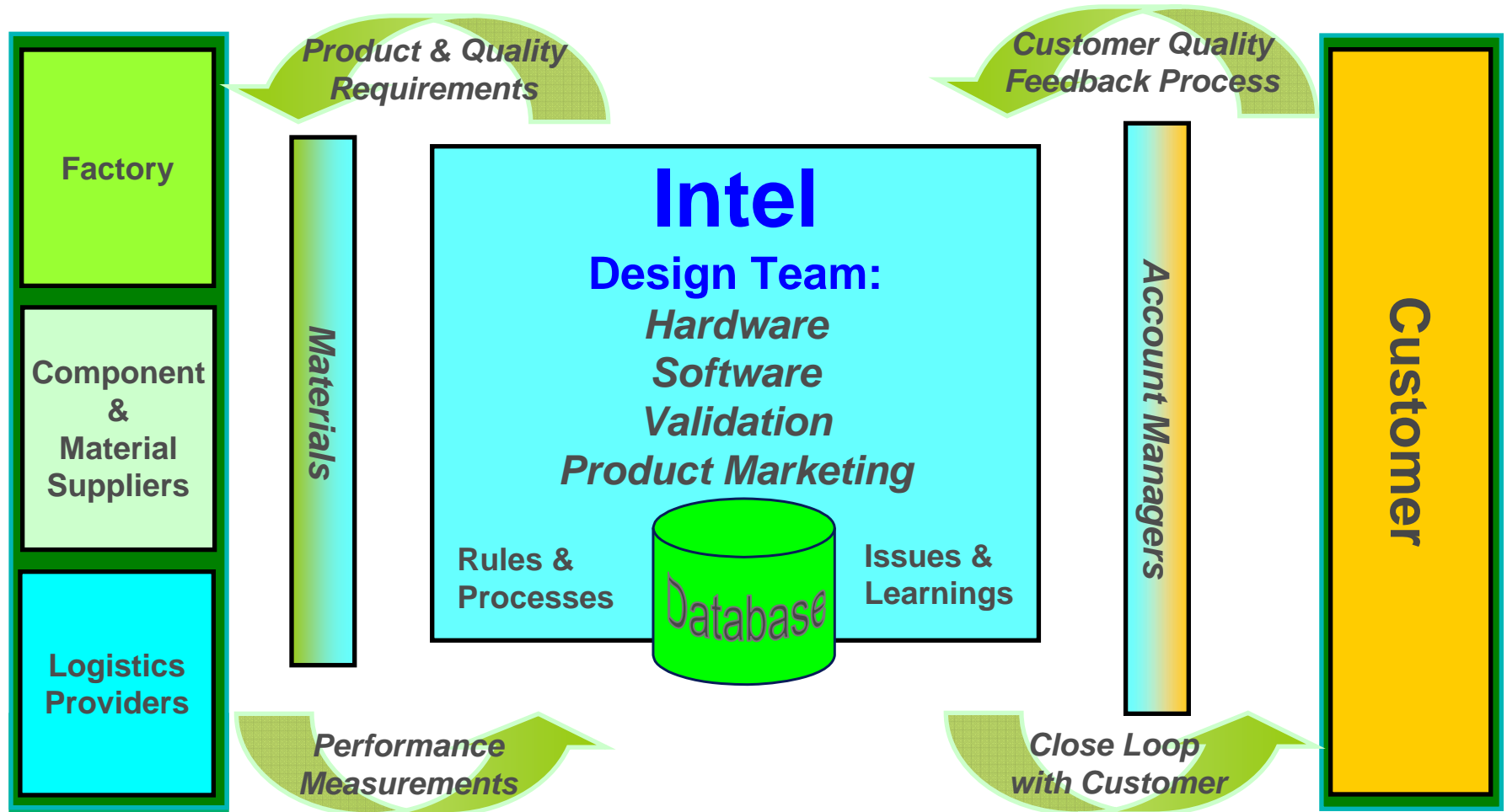 - Database utilized to capture, retain & share key learnings

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Intel® Server Products
Built-In Quality Infrastructure

Factory

Component & Material Suppliers

Logistics Providers

Product & Quality Requirements

Materials

Intel
Design Team:
Hardware
Software
Validation
Product Marketing

Rules & Processes

Database

Issues & Learnings

Account Managers

Customer Quality Feedback Process

Customer

Performance Measurements

Close Loop with Customer

Designing Quality Into Intel Server Products

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Validation Value Proposition

- Extensive **low-level verification testing:**
  - Hardware electrical and functional testing like signal integrity
  - Voltage, temperature, and frequency margin testing to operational limits
  - Low level testing across BIOS, firmware, and server management using comprehensive proprietary test suites to check functionality and compliance

- Thorough **platform level testing**
  - Quality testing using worst case stress configurations and Intel proprietary validation tools
  - Broad set of product compatibility testing across wide range of OS , adapters, peripherals, and memory
  - Testing with over 30 environmental profiles meeting Intel corporate standards
  - Regulatory and Safety certification testing in compliance with all major geographies' requirements

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Validation Value Proposition

- **Vast network of resources** and relationships help deliver reliable and industry-leading platforms

  - Corporate-wide resources and expertise utilized in the development of software and hardware validation tools

  - Intel's Server Products Division partners with the Intel® Server processor and chipset teams to drive root cause and corrective action of any hardware issues

  - Intel maintains direct relationships with key I/O IHVs & OS vendors (adapter, operating system & memory vendors)

- Continuously helping **drive IA Server industry forward**

  - Participation in Intel® Developer Forum's I/O technology demonstrations

  - Regular participant in PCI-Sig Plugfest where Intel® Server Products are made available to wider industry for compliance testing
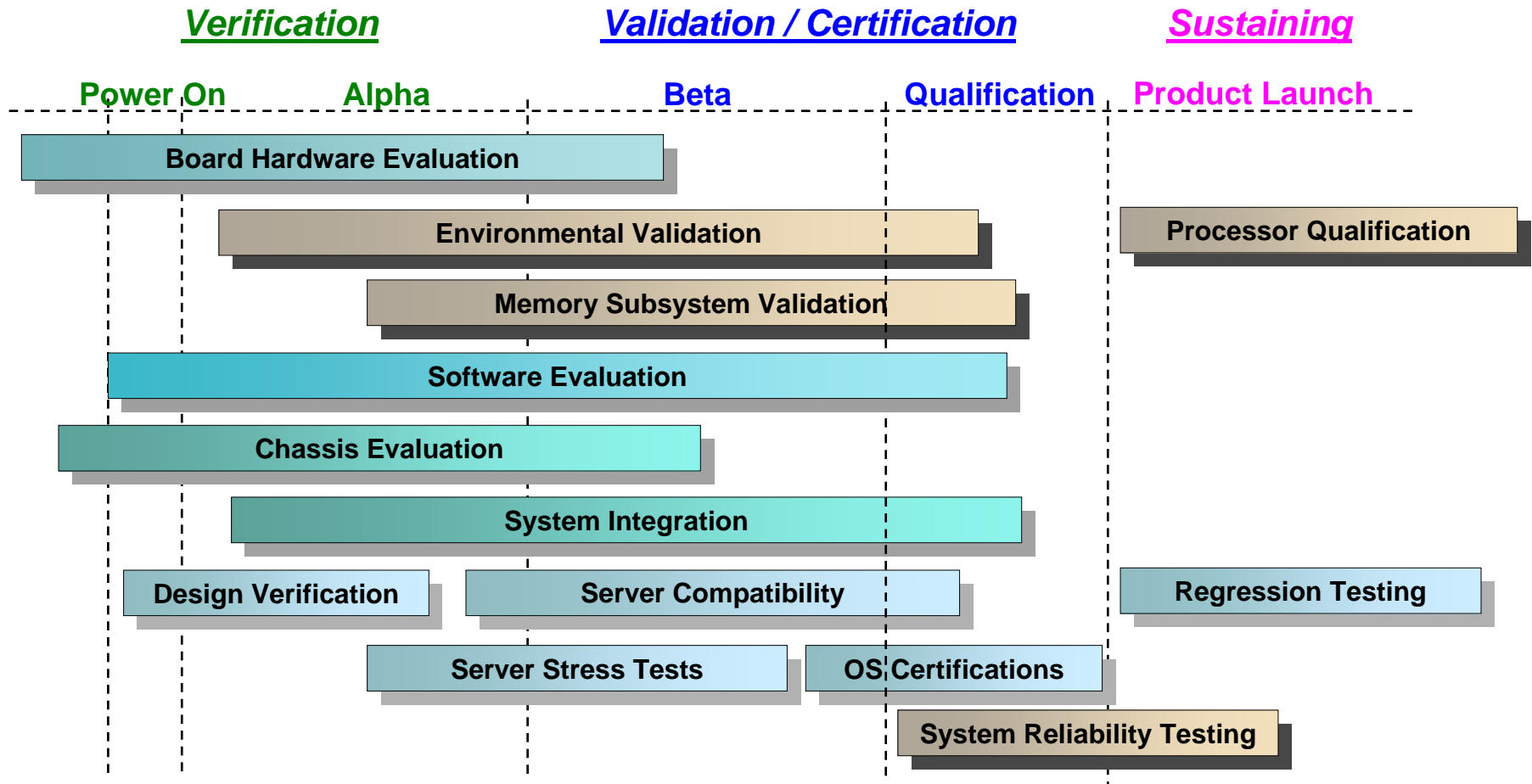
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Intel® Server Products
Validation Process Overview

Verification   **Validation / Certification**   **Sustaining**

| Power On | Alpha | Beta | Qualification | Product Launch |

Board Hardware Evaluation

Environmental Validation

Processor Qualification

Memory Subsystem Validation

Software Evaluation

Chassis Evaluation

System Integration

Design Verification

Server Compatibility

Regression Testing

Server Stress Tests

OS Certifications

System Reliability Testing

Helping Ensure Comprehensive Validation Practices Throughout The Entire Product Life Cycle

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Summary

- *Quality is designed into Intel® Server Products for greater reliability*

- *Intel performs extensive low level validation and platform testing for product robustness and to help ensure stable operations*

- *Intel's vast internal and external resources and relationships help provide expertise and quality assurance in the development of Intel Server Products*

Extensive Quality & Validation Practices Passed on to You with Server Platforms Based on Intel® Server Products

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