Thank you, chairman.
Today, I’d like to introduce Fujitsu IT infrastructure, TRIOLE.
Looking at information systems in enterprises, individual application systems have been developed by introducing technologies considered suitable for each business process.

Following that, improvement of user environment, speedup and channel innovation is realized by implementation of Information Portal and CRM & SCM applications.

From now on, consider the evolution of the information portal, that is, increase of information accessibility and improvement of the quality of such information, and also consider holistic optimization of business operations.

Fusion of these two factors is expected to realize new types of business processes.

For example, making good use of information, improvement of efficiency of computer utilization and innovation of trading practices are expected as a new types of business processes.
Let me summarize our customers’ expectations toward IT systems. Customers expect IT systems to realize new value with service oriented integration as mentioned previously. Customers already have a lot of IT assets so they don’t expect forklift replacement (rip & replace approach) but rather expect incremental development. They may just want to have a small system for trial to reduce initial costs and then expand the system along with their business. Needless to say, they want to reduce operational costs. We want to meet these expectations using TRIOLE

To meet customers expectation, Fujitsu’s TRIOLE vision aims to achieve the following goals.

First
- Business agility
TRIOLE enables the customer’s existing system to quickly adapt to changes in business and transform them into IT system that is holistically optimized.

Second
- Rapid development & deployment of business applications, and
TRIOLE aims to enable customers develop and deploy business systems rapidly using a framework. Fujitsu offers predefined control logic components as part of the framework.

Third
- Stable & reliable system and reducing Total Cost of Ownership.
Fujitsu applies automation technology to its components in order to enhance reliability not only of the components themselves, but also all the way up to a customer’s system level.
To achieve TRIOLE’s goals, Fujitsu believes IT infrastructure should evolve in the following two axis.

One axis involves the enhancement of products, and the other involves platform integration.

Primary components of IT infrastructure are S, S, N, & M.

As part of products enhancement, Fujitsu applies the core technologies of automation, virtualization, and integration to each platform product and continues enhancing them.

As part of Platform integration, which I will discuss more detail shortly, we make infrastructure components to work together to achieve a new degree of compatibility and consistency at the system level.

Combination of these two results in the optimization of entire system.

Fujitsu also actively applies standard technologies such as open architectures and open source to its products.

It provides an open platform enabling the quick integration of business application programs and customer systems even in heterogeneous environments where different hardware, OS and middleware are used together.
In mainframe era, one vendor basically offered everything. Needless to say, integrity was kept over the entire system.

Now we are using the open systems model. In a multi-vender system environment, any hardware and middleware products, that is Fujitsu and ISV and IHV products can be combined in a platform. Customers enjoy great select-ability. On the other hand, using a wide variety of applicable products makes it difficult to maintain the consistency and compatibility of the products. This results in a significant amount of effort when developing a customer mission-critical platform.

What TRIOLE is aiming at as a platform integration model is an integrated platform which has integrity over the entire system like the mainframe model and select-ability like the open model.

By being open, customers have the freedom to choose products with desired features while retaining the ability to develop and deploy a stable system in short period of time.

Fujitsu models the new platform by combining not only its own products but also products from leading ISV/IHV taking into consideration reliability, security, performance and scalability.

Further we also thoroughly verify each platform to guarantee the compatibility, consistency, and quality of the entire platform throughout its life cycle.
Let’s move to platform integration.
Let me begin with platform integration. This is a story of templates. Customers require mainly the following two points.

The first point is quick system development and the second point is high reliability and robustness of the system.

To respond to these requirements, we offer the “Building Block” method, that is, pre-fabricated units instead of fabricating individual parts like in a custom-making method.

In other words, platform integration collects fabricated parts, design them as templates, and verifies them in advance.

Fujitsu calls this Building Blocks “Pi templates” which are derived from analyzing customer needs and requirements.

Our proven achievements in customer system development in over half a century provides us with this capability.

This enables customers to achieve the quick development and high reliability of their systems.

Fujitsu has established a Platform-integration Center, or Pi center, where we develop and verify Pi Templates continuously and also expand the range of Pi Templates.
Basic Pi-Templates include elements like Internet front, web application, Business application, Database and Operations or Systems Management.

Each template consists of set of products in various configurations with a variety of choices for the customer as they also integrate other vendor products.

For example, existing legacy systems can be quickly and easily web-enabled by using Pi-Templates.

Pi templates are offered with standardized system configurations & test documents which are useful for support and maintenance.
Expand line-up of templates based on analysis of the customer's needs and provide the combined templates suitable for different purposes.

In addition to existing Basic Templates, we also model and verify Combined Templates by putting together different elements of the Basic Templates. One example of this is the Web three tier model.

Furthermore, we are analyzing actual needs gathered from the field and expanding the lineup of templates. Templates such as Back up and XML based search are also being developed.

Our goal is to meet 80% of customers’ requirements by providing over one hundred combined templates derived from several tens of basic template.
Let's move to enhancement of products.
I will now explain the functions realizing business growth and expansion, that is, business agility.

(In order to respond quickly to changing business environment), It is important to holistically optimize the entire customer system by plugging in and plugging out new business components or transactions to the existing system easily and safely.

TRIOLE’s service-oriented integration offer foundation realizing this easy plug-in & -out mechanism.

It is composed of business process integration, information integration and People integration with new XML techniques.
Service oriented integration consists of the following three integration paradigms.

The first one is business process integration.
Business process integration links business applications to create new business operations.
It is achieved with an information sharing hub and a process hub.

The second one is information integration.
It aims to link an enormous amount of data stored in various existing systems throughout the enterprise to enable the full utilization of the data, as such the customer is able to optimize business operations.

The third is people integration.
It aims to link people with processes and information to aggregate the knowledge distributed throughout the enterprise in individuals. This will enhance creativity and productivity through the knowledge sharing.
One of the example products which contributes to information integration is the Interstage Shunsaku as an XML search engine.

Shunsaku has achieved high performance using following two technologies

- High speed search algorithm
  This is named SIGMA search algorithm
  High speed search algorithm is a technology that enables search in a constant amount time even regardless of the number of search parameters requested.
  With a high-performance search engine, Shunsaku can search 50 megabytes of text data in about one second using a single CPU.

- High traffic technology
  This is a technology that aggregates multiples search-requests from multiple applications and processes these requests simultaneously.
  That is, the search engine compare a read data with all search conditions at every access, so we can get all results for all requests after accessing all data.
  In addition to that, Shunsaku can handle a large amount of data in a multiserver configuration. It is designed so that retrieval does not slow down for intensive search requests.
Toward "Stable Operation and TCO Reduction for the System"

**Mission**

- 24 × 7 Stable Operation
- TCO Reduction

**Approach**

- Establishment of Quality Chain
- Autonomous System Infrastructure (optimization of resource utilization)

It is important that we maintain customer systems all year round without shutdowns, no degradation of performance during temporary traffic spikes. It is also imperative to reduce total cost of ownership.

Towards that end we have taken the following two approaches.
- Establishment of Quality Chain
- Autonomous System Infrastructure
IT system has multi levels from part to system. 
We have been and will continue to pursue high reliability at each level.

Further, we are establishing a quality chain from the parts level to the system level. 
This involves a feedback loop that incorporates feedback from customer requirements and the accumulation of reliability between each level.
Triole’s autonomous infrastructure realizes the optimization of the entire customer system.

We are going launch shortly a new software code-named Resource Coordinator.

Resource Coordinator will holistically manage the resources of the customers’ systems and will automatically allocate optimum resources in response to fluctuations in processing requests.

Fujitsu aims to achieve stable and reliable autonomous systems operations with Resource Coordinator.
Finally, let me introduce the development roadmap for the autonomous systems infrastructure. As a 1st step, Fujitsu will offer visualization of faults as the foundation for resource management.

As a 2nd step, Fujitsu will provide a provisioning capabilities toward efficient operations.

As a third step, Fujitsu will provide a GRID computing environment, which manages widely-dispersed resources including autonomous workload control function in conjunction with middleware.
TRIOLE

TRIOLE is a Fujitsu IT infrastructure vision that drives down costs by integrating existing technologies, improving business processes and designing for future expansion.

Fujitsu will optimize customer IT resources using the TRIOLE core technologies of automation, virtualization and integration. TRIOLE assimilates server, storage, network and middleware products in a cohesive, stable system.

TRIOLE is enabling business information to flow beyond the border of individual system with service oriented integration on the open integrated platform.