Evolution and Integration
Command Center

Goal
- Enable “go/no-go” decision for re-configuration tasks
- Monitor “live” evolution of system as you would monitor network

Method
- Rapid hypothesis testing
- FlexML event description
- Generate verification gauges
- Dynamic probing of components and connectors

Technical Basis
- Architectural Models show how to develop testing regimen for verifying that components behave as expected during dynamic system evolution, integration, and re-configuration

“When monitor average server HTTP response time as the new database back-end engine is brought on-line”

“Does replacement component L9 use more disk resources than its predecessor?”

“Insert probes based on Architectural Model Generate gauges”

“Generate verification gauges”

“Dynamic probing of components and connectors”

“Rapid hypothesis testing”

“Monitor “live” evolution of system as you would monitor network”

“Enable “go/no-go” decision for re-configuration tasks”

“Monitor average server HTTP response time as the new database back-end engine is brought on-line”

“Does replacement component L9 use more disk resources than its predecessor?”

Event Stream

Event Packaging

Event Distillation

Event Notification

Gauges as active connectors

Gaugents as feedback controllers

Flexible lexical syntax

Partially ordered streams rather than fixed-length documents

Composed/interleaved tag sets rather than rigid DTD

Supports dynamic composition of sophisticated processors

Visible gauges

Gaugents

System Execution

Reactive Feedback

Predictive Feedforward

"Does replacement component L9 use more disk resources than its predecessor?"