Great Lakes TL 9000 SIG Meeting

May 23, 2006

Use of TL 9000 Requirements and Measurements in the Management of the AT&T Supply Base

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AT&T

AT&T serves millions of customers around the globe, including global, national, midsize, regional and government customers. It delivers an unsurpassed portfolio of traditional and IP-based voice, broadband Internet, data transport, wireless and video services. It also offers online and print directory publishing and advertising.

AT&T - Strong Platform for Growth

7.4M 55.8M DSL lines in service Wireless customers

12,000 Wi-Fi hot spots

1 of World's Largest providers of IP services

No. 1 In US Long Distance

120M+ customers

Agenda

- Supplier Management Program
- Methods and Approaches
- Web tools for Managing the Supply Chain
- Critical Success Factors
- •Q & A

Background: Where we were

- Manually generated Supplier Report cards
- Lack of central repository
- Non-standard Measurements & Reporting
- Data credibility an issue.
- Limited visibility to report cards
- Disconnected process for measuring Satisfaction with Supplier Performance
- Centralized staff

Our New Direction

- Use TL 9000 requirements and measurements to measure supplier performance
- Require TL 9000 in Contracts
- Standardize reports
- Create central, web-based toolkit
- Suppliers submit performance data online
- Automate Everything!
- Streamline and link the Customer Feedback process
- Give wide visibility of supplier performance to Clients & Department

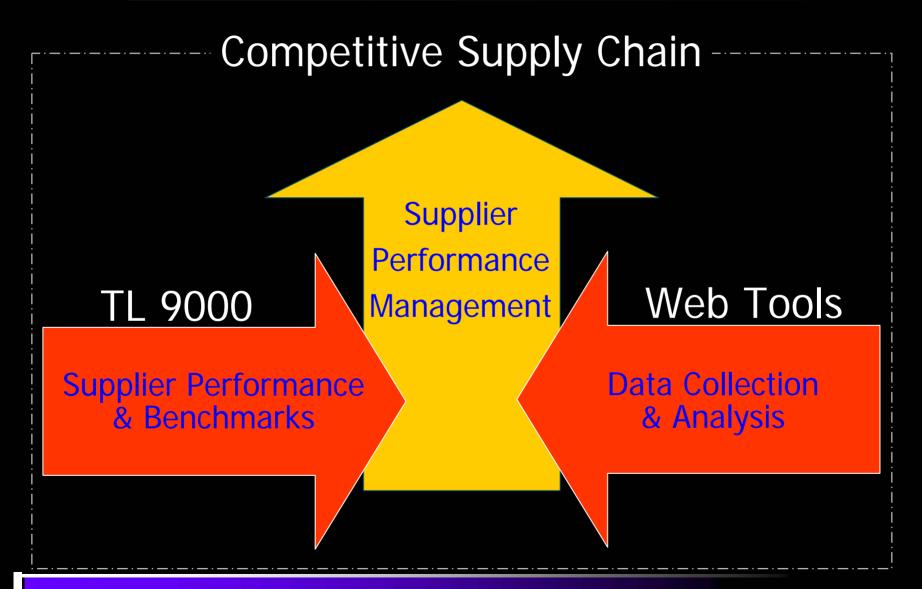
AT&T's Supplier Management Story

Value Proposition: Supply Chain Performance (cost, quality and delivery) could be improved if supplier performance measurements were standardized, reported & visible to suppliers and clients.

Our approach:

- Use of TL 9000 requirements and measurements
- Drive into contract terms and conditions
- Web-based tools for tracking and reporting
- A quality process for managing improvement

AT&T Supplier Performance Management System



A Tiered Approach to the Managed Supply Base

"Managed Base"

Tier 1
Tier 2

Tier 3

"Tiered Program
Management"
Approach

Suppliers in "Managed Base":

- Defined metrics
- Submit periodic data to AT&T data repository
- Strategic to AT&T's supply chain
- Proven quality processes
- Client buy-in

Other Suppliers

- Supplier performance managed by SCM &/or Client
- Quality Clause in Agreement(s) defines requirements
- Data collected by Supplier *not* reported to SQ Central

AT&T Contracted
Supply Base"

A Tiered Approach to the Managed Supply Base

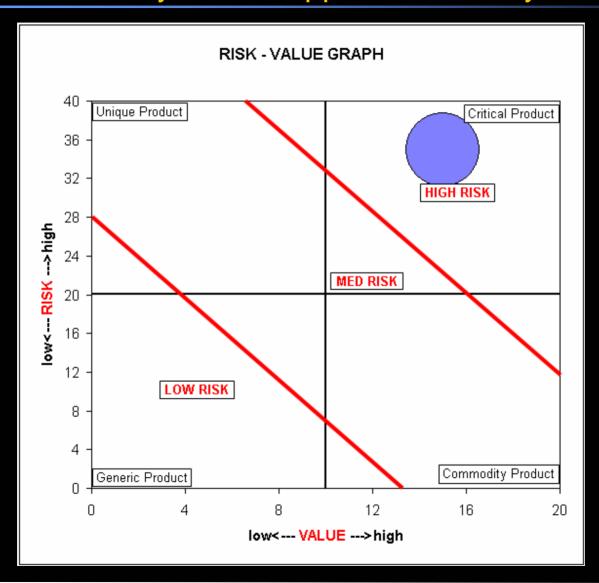
What tools can be used to determine which suppliers and product categories are assigned to each tier, or registered to TL 9000?

 Risk / Value Matrix: Evaluates Commodity Risk & Applicable Quality Clause

Risk Value Tool: Evaluation Criteria

- Value of Contract
- Type of Product or Service
- Network Dependency / Risk
- Customer Impact
- Duration of Contract
- Revenue generating
- Integration with Other Components
- Safety Considerations
- Quality Criteria

Risk Tool: Evaluates Commodity Risk & Applicable Quality Clause



High Risk Clause

- Supplier represents and warrants that Supplier's processes utilized to produce Material and provide Services under this Agreement are certified to TL 9000 within one hundred eighty (180) days after the execution of this Agreement and that Supplier will maintain TL 9000 certification for the term of this Agreement. Supplier shall provide AT&T evidence of TL 9000 registration within thirty (30) days from the date of registration.
- Supplier's key subcontractors/suppliers shall be TL 9000 certified within three hundred sixty five (365) days after execution of this Agreement between AT&T and Supplier. Supplier shall provide AT&T evidence of TL 9000 registration certification within thirty (30) days from the date of certification.

Medium Risk Clause

Supplier represents and warrants that Supplier's processes utilized to produce Material and provide Services under this Agreement are or will be registered to ISO-9001/2000 within one hundred eighty (180) days after the execution of this Agreement and that Supplier will maintain ISO-9001 registration for the term of this Agreement. Supplier shall provide AT&T evidence of ISO-9001 registration within thirty (30) days from the date of registration.

Low Risk Clause

- Supplier represents and warrants that Supplier's processes utilized to produce Material and provide Services under this Agreement are controlled and adequate to deliver defect free performance
- Supplier's key subcontractors/suppliers have been evaluated and provide adequate levels of process control to deliver defect free product.
- Excellent Quality Management System guidance can be found in ISO 9001/2000 and TL 9000. Copies of TL 9001/2000 Handbooks may be ordered through the QuEST Forum web site at http://www.questforum.org. Select the 'Resources' link from the QuEST forum home page, which will direct you to the TL 9000 Handbooks purchase page.

Tiered Program Management

Tier 1 (Managed Suppliers)	Tier 2 (Monitored Suppliers)	Tier 3 (Reporting Suppliers)
 Semi-annual formal Supplier assessments (Executive attendance) 	 Semi-annual informal Supplier assessments Annual Supplier Client 	 Quarterly Compliance Reports to Supplier & AT&T Stakeholders
 Semi-annual Supplier Client Sat surveys 	Sat surveys • AIR (as required)	 Ad hoc Supplier Client Sat surveys
 Quarterly Process Improvement meetings w/ formal AIR (as required) 	• Quarterly informal	• AIR (as required)
 Monthly informal reviews/feedback w/ stakeholders Annual validation of 	reviews/feedback w/ stakeholders • Annual validation of	 Semi-annual informal reviews/feedback w/ stakeholders
Supplier's data sources & counting method	Supplier's data sources & counting method	 Ad hoc validation of Supplier's data sources 8 counting method
 Annual review of Quality Plan 	Ad hoc review of Quality Plan	Ad hoc review of Quality

Plan

39 Product Categories Reporting TL 9000 Measurements

(1.1) Circuit Switch
(1.2.2) Access Switch
(1.2.5) Broadband Multi-service
(1.2.9) Routers
(2.2) Signaling Transfer Point (STP)
(3.1.1.1) Metallic Conductor Cable
(3.1.1.2) Metallic Connectors
(3.1.1.2.1) Fiber Optic Cable
(3.1.1.2.2) Optical Connectors
(3.1.1.3.2) Passive Optical Sub-Systems
(3.1.1.3.3) Ancillary Sub-Systems
(3.1.2.1) Enclosures
(3.1.2.3) Conduits
(3.2.1.1) Manual Cross Connect Systems
(3.2.1.2) Digital Cross Connect Systems
(3.2.2.1.1) Metallic Carrier System
(3.2.2.1.2.1) SONET / SDH Transport
(3.2.2.1.2.2) WDM / DWDM / Optical Amplification
(3.2.2.2) Loop Carrier

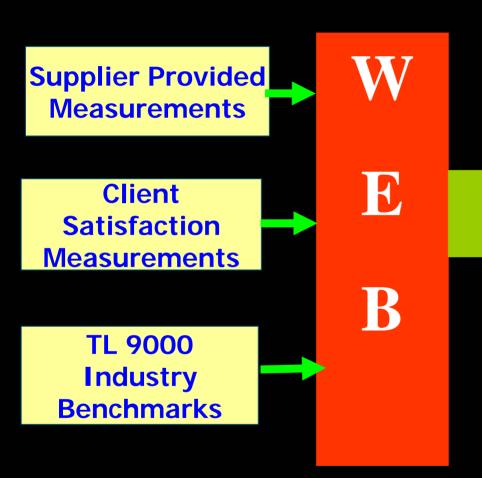
(3.2.4) Digital Subscriber Lines (4.1.1) Test Access Equipment (4.1.2) Test Equipment, Embedded (4.1.3) Test Support Software (4.2.1) On Line Critical (4.2.2) On Line Non-Critical (4.3) Ancillary Operations and Maintenance (5.1) Synchronization (5.3) Power Systems (6.1) Enhanced Services Platforms (6.4) Private Branch Exchange (PBX) (6.5) Small Communications Systems (7.1) Installation Service (7.2) Engineering Service (7.4) Repair Service (7.5) Customer Support Service (7.6.1) Procurement Services (7.7) Logistical Services (8.1) Components (9.3) Transport Networks

37 Product Categories Reported with Customized Metrics

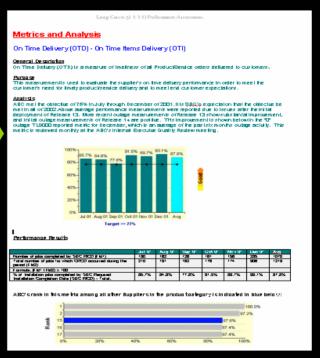
- Application Software
- **Call Center Transformation**
- **Cluster Vendor Monthly**
- Common Systems (Distributors)
- Copier Services
- **Customer Premise Equipment (CPE)**
- Dark Fiber (Telecom Local Access)
- Design & Construction Materials (Furniture)
- Design & Construction Services (Design Firms)
- Design & Construction Services (Gen. Cont.)
- Design & Construction Services (Project Audits)
- Desktop & Server Leasing
- Dial Internet Access
- Digital Cross Connect (Distributors)
- Directory Outsourcing
- Fleet Operations
- Fleet Services
- Infrastructure Software
- Invoice Metrics
- Litespan FA & OTD
- Intelligent Field Device

- **Mainframe Computer**
- Medical Services
- Midrange Computer
- Motor Vehicle Parts Distributors
- OEM Desktop
- **■** Operational Support Systems
- Outside Plant Materials
- Plug-in Repair Service
- Post Sale Contract
- Prescription Drug Service
- **■** Property Management
- Storage
- Training Services & Materials
- **■** Transportation Services
- VAR Channels
- **Wireless Services**

Web Enhances Reporting Capability



Supplier Performance Reports





AT&T's Supplier Performance Process



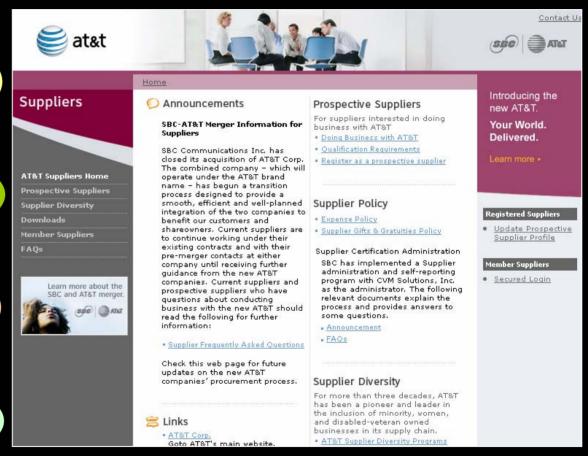
AT&T's External Supplier Website: A Supply Chain Resource

Supplier Registration

Supplier Diversity Tools

Performance Reporting

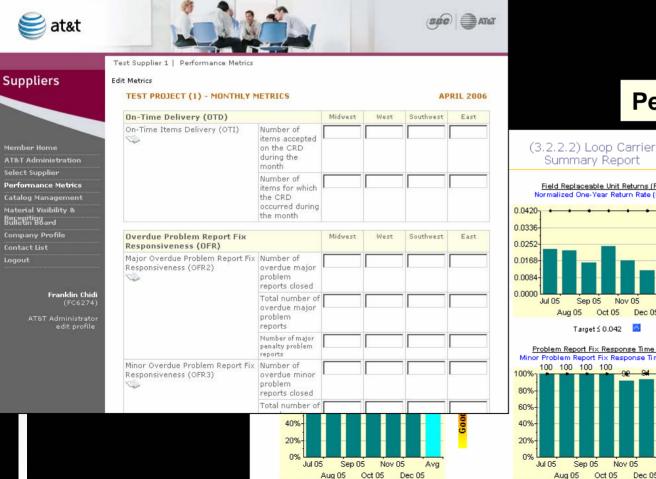
Supplier Quality Program



www.ATTsuppliers.com

Suppliers Utilize Measurement Templates to Enter TL 9000 Performance Data

Input Screen



Target≥ 100%

Performance Graphs

Franklin Chidi

Thursday, February 09.

PRINT REPORT



AT&T Uses Internal Site to View Supplier Performance Metrics and Build Reports

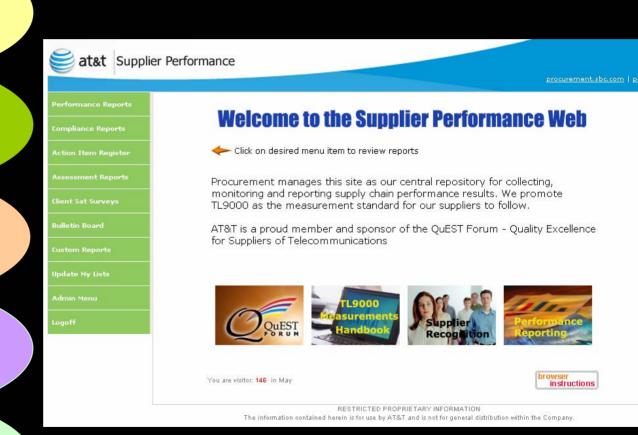
Performance reports

Compliance reports

Action item registers

Client Satisfaction

Assessment reports

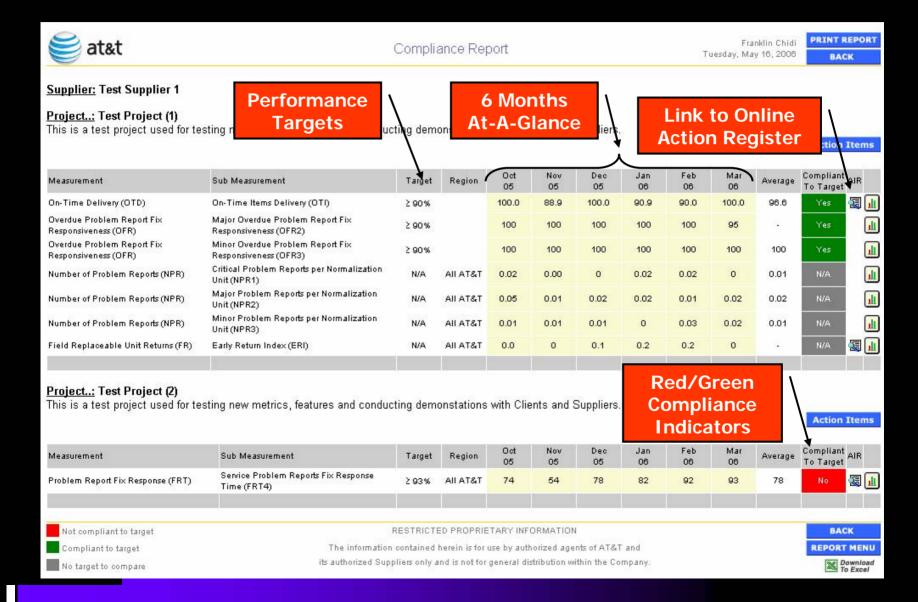


Performance Report Shows At-a-Glance Results History

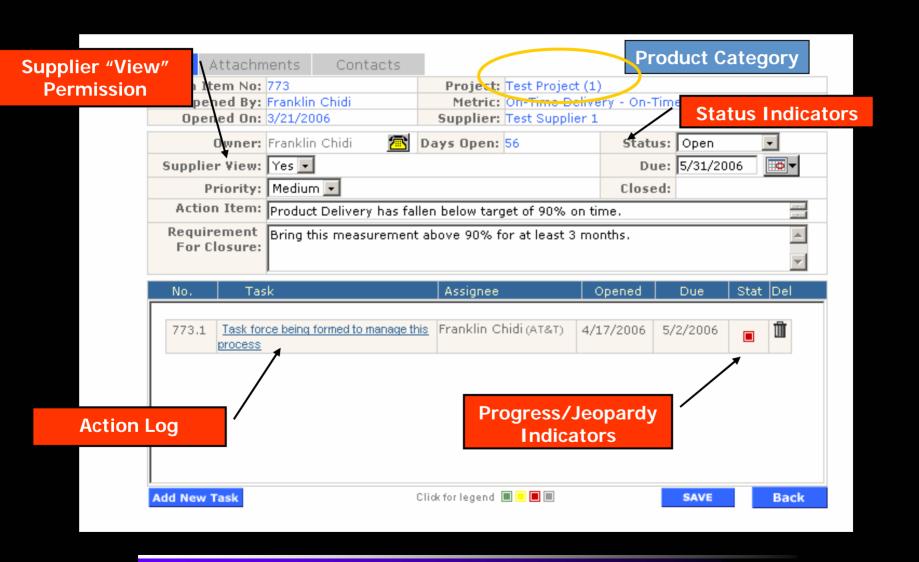


Click on charts for detailed region and supplier data

Compliance Report Shows "Red" / "Green" Status Compared to Target



Online Corrective Action Register Provides Two-Way Updates on Action Items



Supplier Assessment Report

Purpose

Virtual "report builder" allows users to compile graphs, add commentary and publish summary analysis

Output

A summary report used for supplier feedback and executive reviews.



Telecom Supplier

Performance Assessment

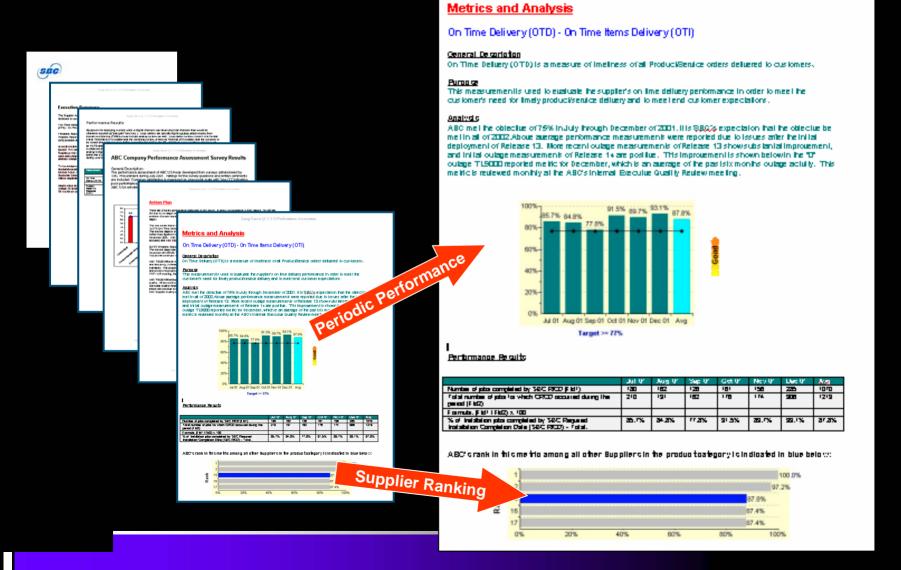
1/1/2005 - 6/30/2005

Published: 2/9/2006

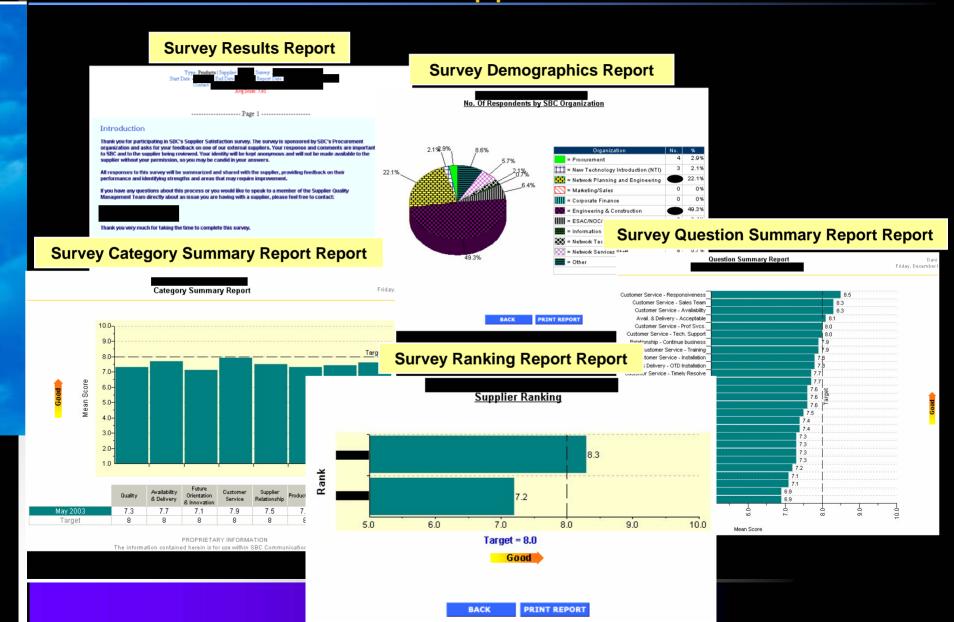
Prepared By: Franklin Chidi (925) 823-0312

Assessment Report Feature Builds Supplier Report Cards Automatically

Loan Corre (3/2/22) Performance Assessment



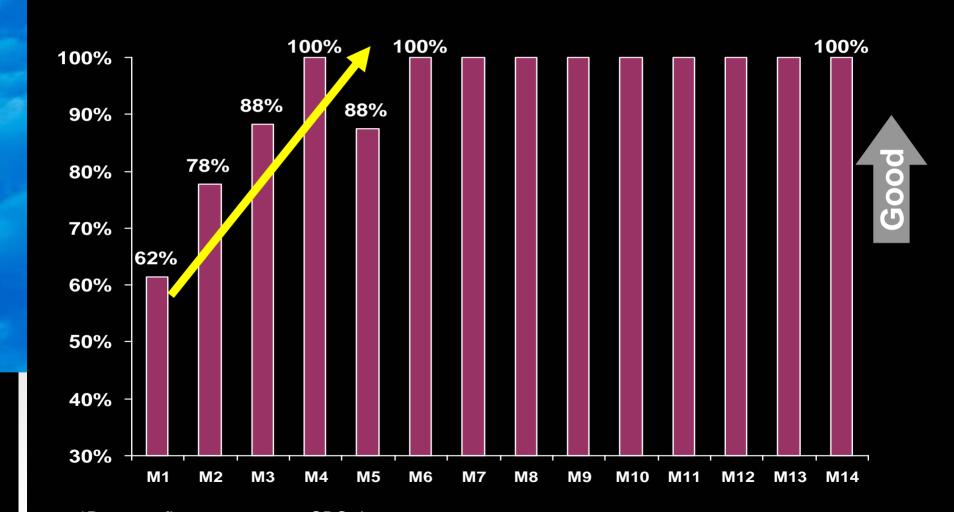
Assessments Include Customer Satisfaction Feedback about Supplier Performance



Does TL 9000 benefit the supply chain?

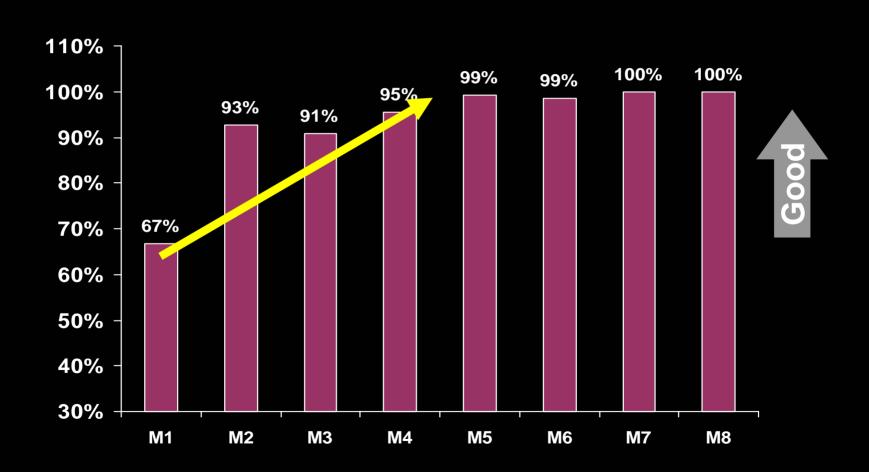
The results complete the story....

3.2.2.2 Loop Carrier: Supplier Improved Response Time to Fix Problems (FRT) by 38% Percentage Points in 6 Months...and Sustained Performance

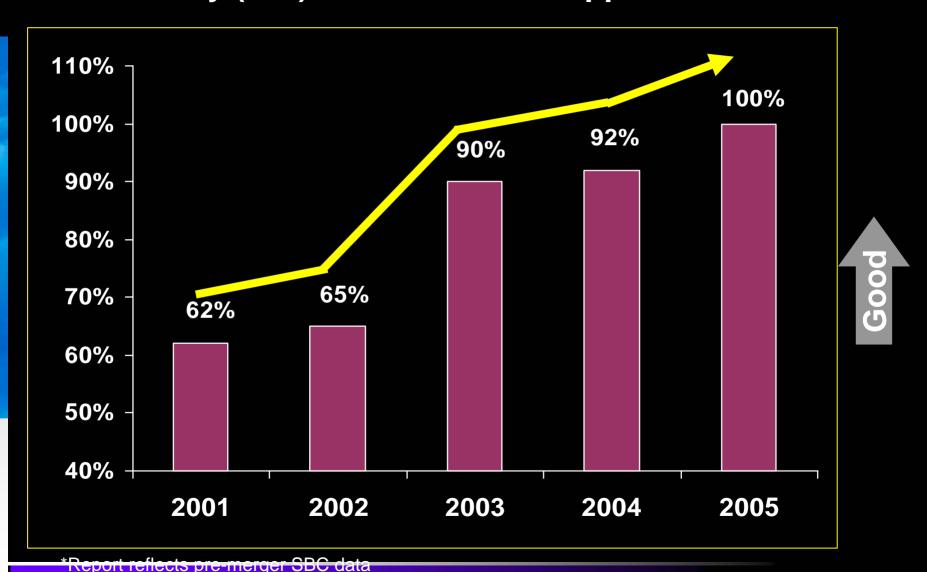


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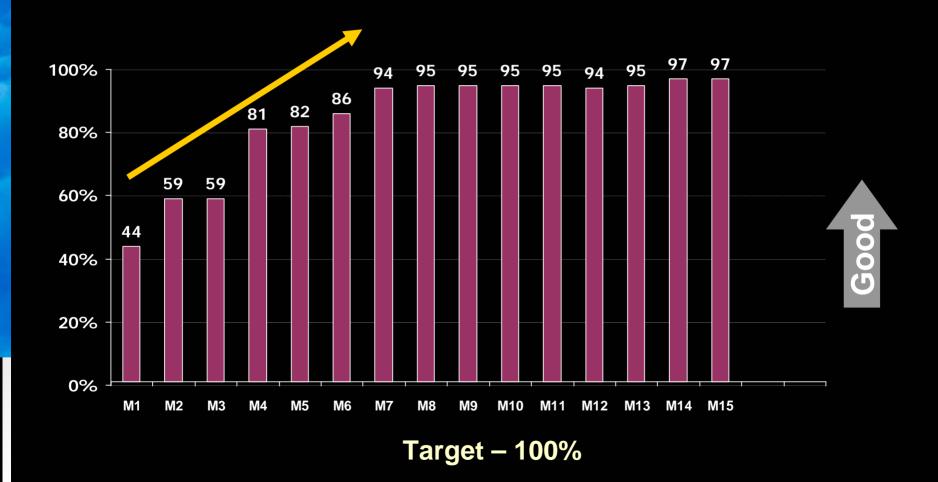
4.1.3 Test Support Software: On Time Delivery (OTI) Improved 32+ Percentage Points in 5 Months



2.2 Signaling Transfer Point – Year over year gains in On Time Delivery (OTI) for this critical supplier



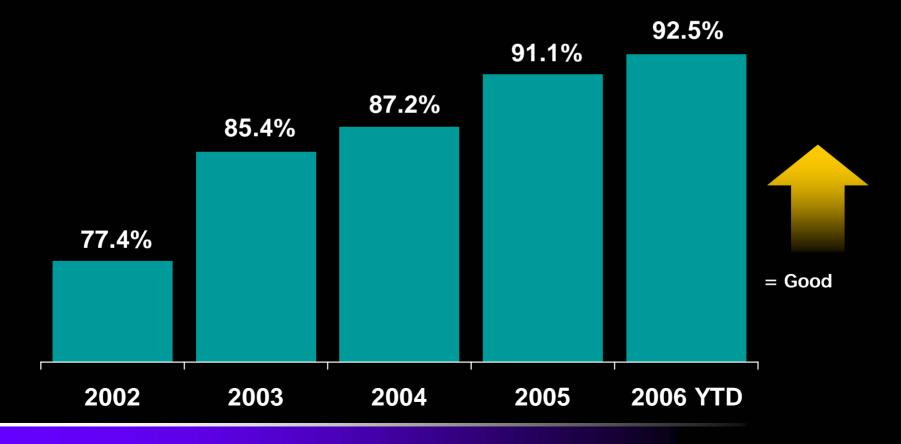
On Time Delivery for Fifty+ Installation Vendors Improved Over 50 Percentage Points in 7 months



*Report reflects pre-merger SBC data

Does TL 9000 and the Quality Process Really Work?

Composite Supplier Performance Results Shows Year-Over-Year Improvements in "Metrics Performing at Target"



Critical Success Factors

- Leadership, Leadership
- TL 9000 Industry-accepted performance standards & measurements
- Standard reports agreed to by supplier, client & contracting organization
- Quality Managers within sourcing organization up front engagement with client & supplier
- Easy to use web tools configurable, fast, customizable
- One AT&T Supplier Performance process and Toolkit

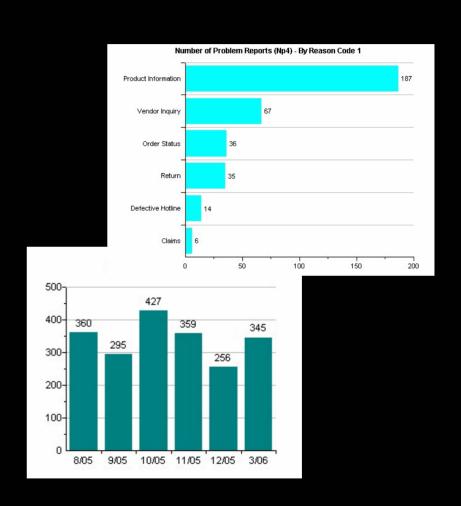
TL 9000 Registered in 2005!

We are proud of our Procurement Team!



Procurement Registered Functions

- Warehouse Operations & Logistics
- Inventory Planning
- Strategic Sourcing
- Purchasing
- Procurement Systems
- Fleet Operations
- Supplier Quality
- Supplier Diversity



Value of TL 9000 & QuEST Forum

✓ Single Set of standardized Requirements & Measurements



✓ Sets the Industry Quality Standard worldwide



✓ Access to Industry Benchmark data

The Value of TL 9000 & QuEST Forum

Enhanced supplier partnerships & joint quality programs



✓ Sharing of Best Practices across the industry



✓ Supply chain excellence = great service = customer satisfaction

Thank you!

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