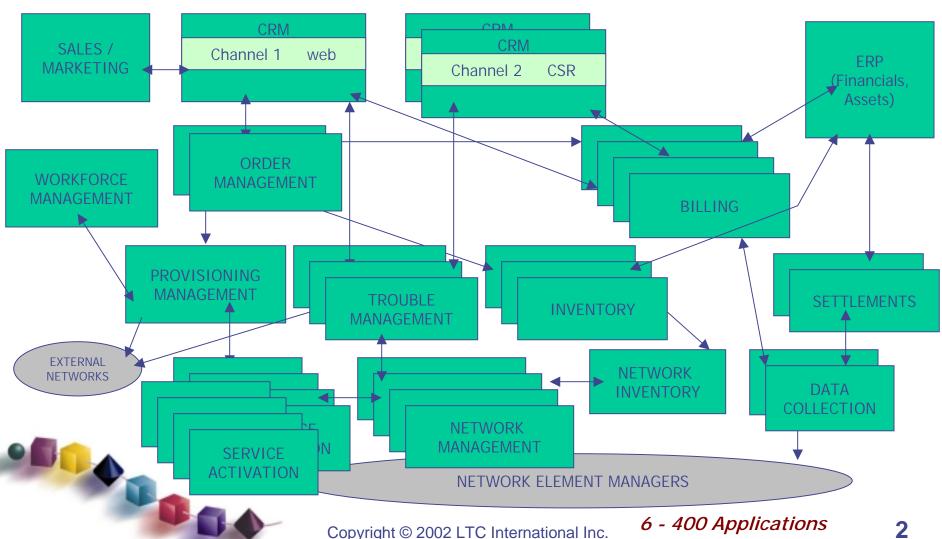


# NGOSS New Generation OSS The future, or missed opportunity?

MTBC
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# Typical OSS Infrastructure





# The OSS Business Today

- The software application and systems integration business for the telecommunications industry is huge:
  - \$20B in 2000 revenues and growing
  - Hundreds of software application vendors
  - Dozens of systems integration companies
- For the Service Provider this results in a high cost for systems acquisition, integration and management
  - \$10-15M investment in OSS is typical for a start up company





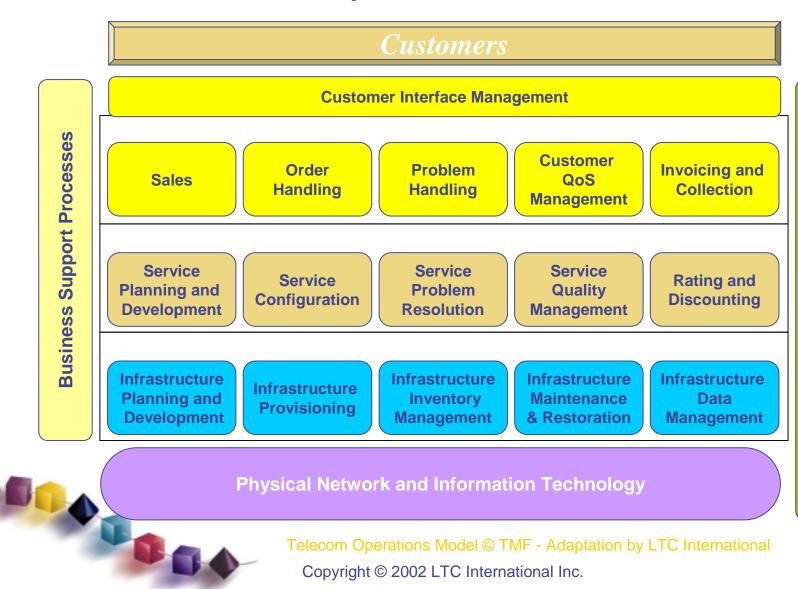
# The Cost of Complexity

- High barrier to entry
- Longer path to profitability
- Increased risk and uncertainty
- Impeded achievement of 271 approval
- Increased effort and cost to introduce new services
- Increased costs for end users





# TMF Operations Model



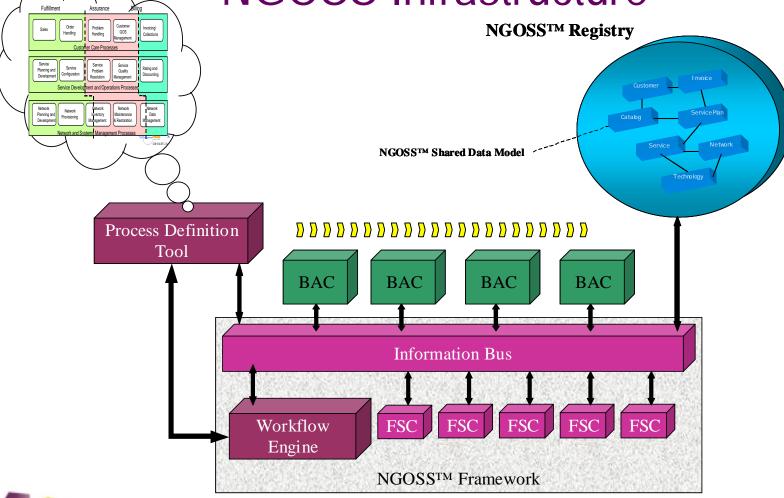


#### What is New Generation OSS?

- An attempt to create standards for systems, data, and processes to support efficient and cost-effective OSS choices
- NGOSS™ is the term TMF uses to describe
  - a "loosely coupled" distributed component architecture
  - along with functioning application components
  - upon which Communications Service Provider business can run.
  - The components interact through a communication infrastructure
- The components can be programmed through the use of a process management tool to control the business processes of the service provider using the functionality provided by the components.



#### NGOSS Infrastructure



BAC: Business Aware Component

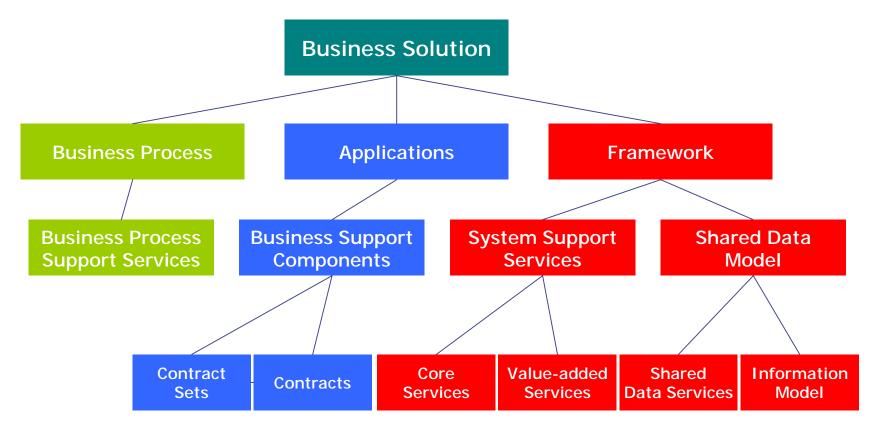
process workflow

FSC: Framework Service Component

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# NGOSS Decomposition







#### Problem Solved!

- For Service Providers, NGOSS means...
  - Dramatically reduced cost to acquire, implement and maintain "plug and play" **OSS** components
  - End to end control of business processes linked to support systems
- Reduced time to market, new services quickly and easily supported by off-theshelf components.



#### Problem solved?

- For Software Application Vendors NGOSS means...
  - Creating new modular applications to new standards (or rewriting existing)
  - Trading freedom for openness
  - Becoming dependent on others.
- For Systems Integrators, NGOSS means...
  - Reduced revenues
  - Higher profitability (perhaps)





# Where is NGOSS today?

- "Catalyst" is the leading initiative
  - "Fine Grain" program supported by WorldCom
  - Progress is demonstrated twice a year at the TMF conference
- Complete NGOSS development standards available... when?
- No major Software Vendor pinning entire development strategy on NGOSS.





#### What drives creation of a standard?

- A standards body can define it, for example:
  - Carrier to carrier connectivity
  - Network element interoperability
  - GSM
- But driving to standards takes investment, clout, persistence (clear financial benefit)
  - Service Providers?
  - Software vendors?
  - Systems Integrators?





#### Service Providers

- Very large service providers have extremely complex IT environments
  - Most have tried several times to get out from under their legacy environments
  - Few have succeeded, even on a small scale
- Smaller service providers have little purchasing leverage to dictate major change





#### Software Vendors

#### **Outside NGOSS**

- any functional footprint
- any data definition
- self-contained (all elements required to execute software as stand alone application)
- optional offering of interfaces for integration
- ad-hoc publication and upgrade policy
- optional involvement in distribution directory management
- can shrink or grow functional footprint

#### Within NGOSS

- adhere to object constraints defined by NGOSS
- use common, shared data model
- only deliver the function of the object
- adhere to 'plug-and-play' methodology with published 'services'
- engage in contracts with infrastructure vendors
- subscribe to location directory services
- functionality is constrained but can develop any number of 'pluggable' objects





# Systems Integrators

 Simple, plug and play, "hot swap-able" all spell the end of multi-year, multi-million integration projects





# NGOSS Adoption Prediction

- At the network element layer there will be some acceptance
  - Application vendors in this space are accustomed to working with standards
- Moving up the layers, acceptance will be very slow
  - the objects are heavily impacted by business logic
- humans are not machines, businesses look for differences



# Watch the NGOSS space

- Today, there is no one driver seeking market domination through NGOSS
- Should an 800-pound gorilla step forward, the game will change entirely...







### Thank You

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