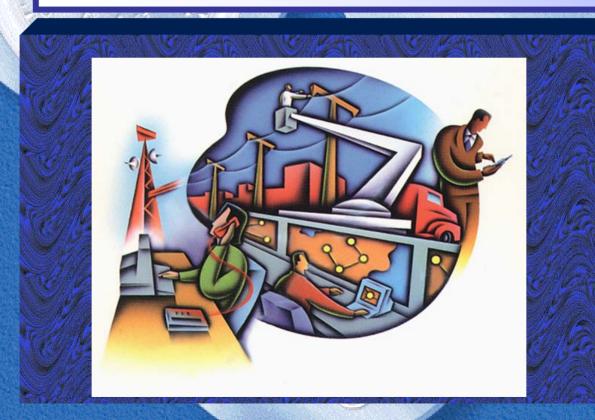
INTELLIGENT NETWORK



Lucent Technologies

Network Knowledge Solutions_{sm}

Skills

Consulting

Services Marketing
Business & Strategy Planning
Customer Care
Network Planning & Operations
Communications Security

Integration

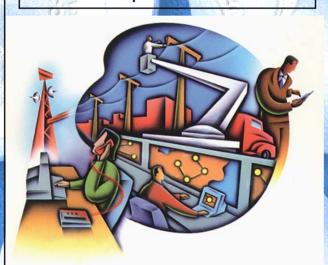
Network Node
Broadband CATV Network
Data Network
Telephony & Advanced Telephony
Internet
Information Systems
Voice Messaging

Operations

Telecom

Resources

Globally located for Planning, Integration and Operations



Partners

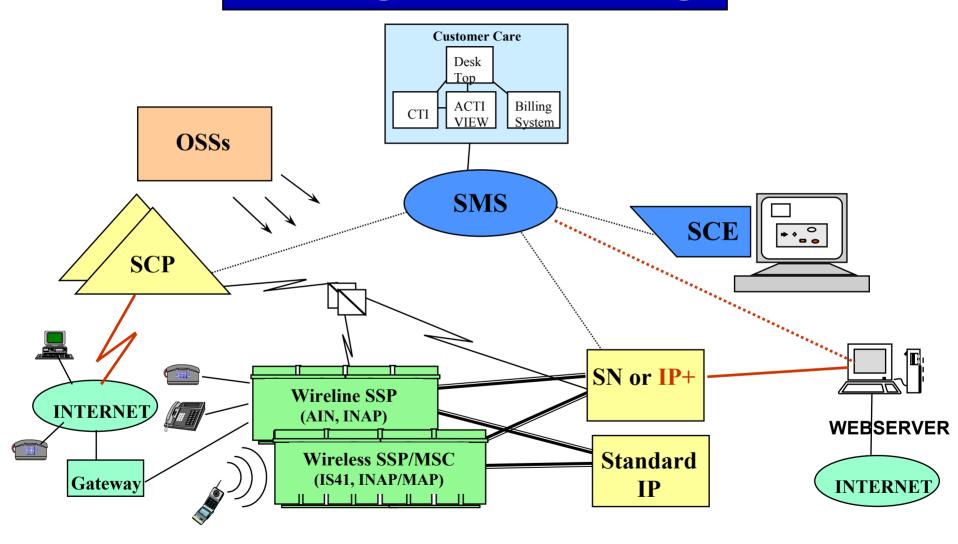
IBM Claremont
Microsoft Oracle
AT&T Solutions Saville
Trinity Tracom
Bechtel

Typical Projects

- Asia PTT Internet Arch. Consulting
- Telephony Integration for US and European CATV Companies
- IN Network Integration for European PTT
- ATM Planning for RBOCs & PTTs
- Broadband service trial for Canadian Carrier
- Data communications unit established in South America
- Internet Access Gateway
 Optimization for RBOC
- OS Integration/Consolidation for RBOC
- Network & Systems Integration for Major Middle Eastern PTT



Intelligent Networking







ACCESS

to Network Data and Logic

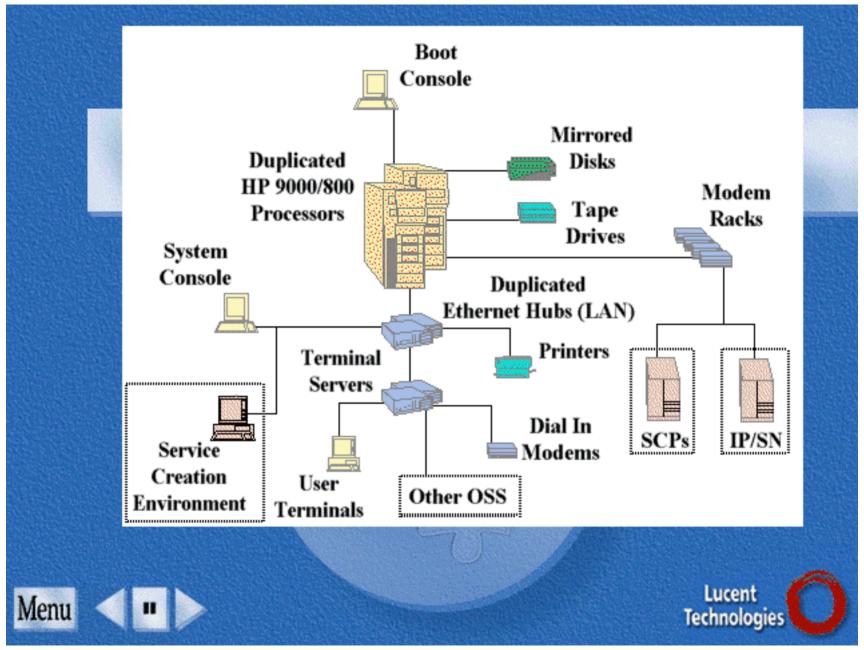
Manages large amounts of IN data and logic

Offers single entry point

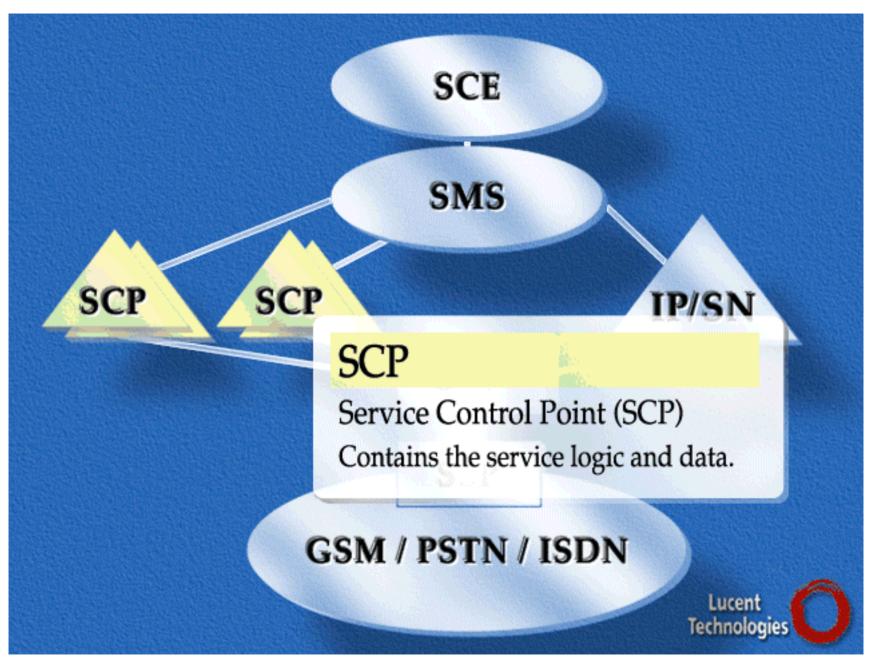
Many secure ways to access data and logic

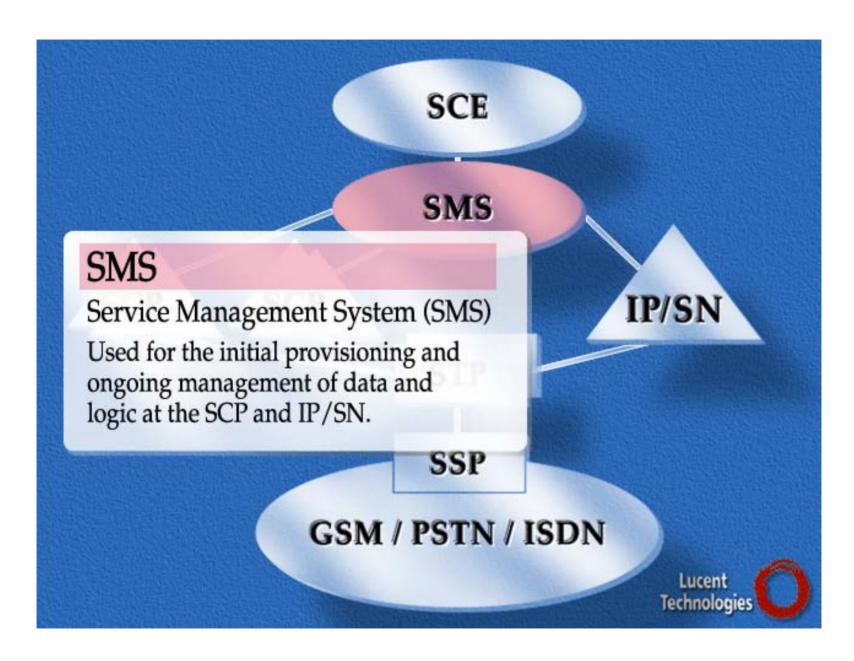
Satisfies end customer access needs



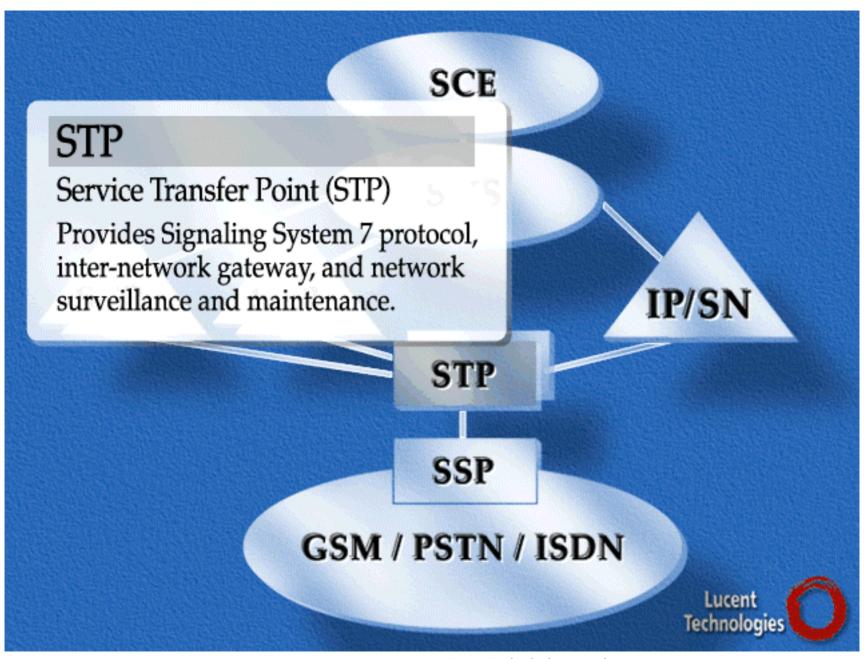


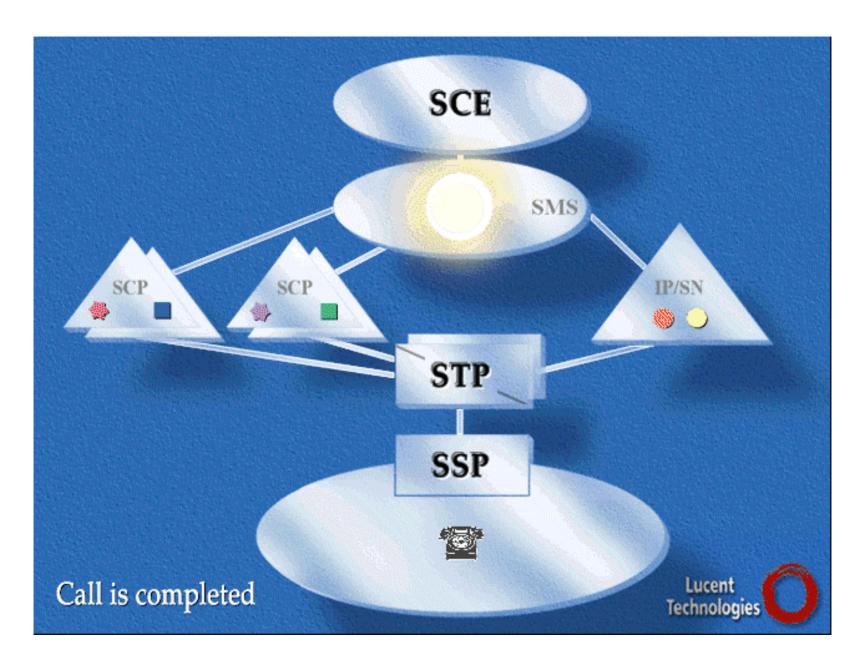
SCE **SCE** Service Creation Environment (SCE) Gives network providers the capability to create, modify, and test Intelligent IP/SN Network services. STP SSP GSM / PSTN / ISDN Lucent Technologies

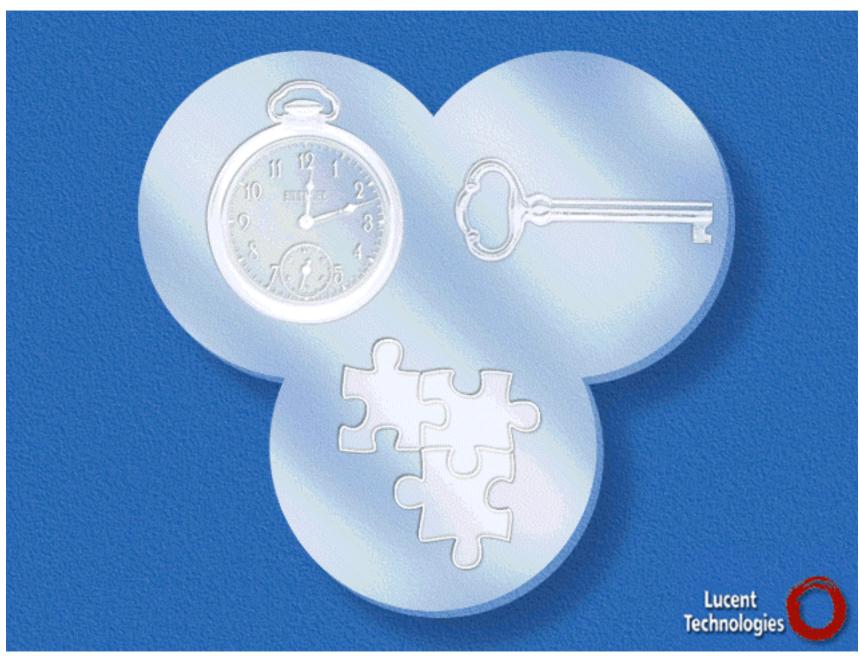




SCE **SSP** Service Switching Point (SSP) Recognizes IN calls, queries the SCP IP/SN for more information regarding the call, and then executes the instructions returned from the SCP. SSP GSM / PSTN / ISDN Lucent Technologies









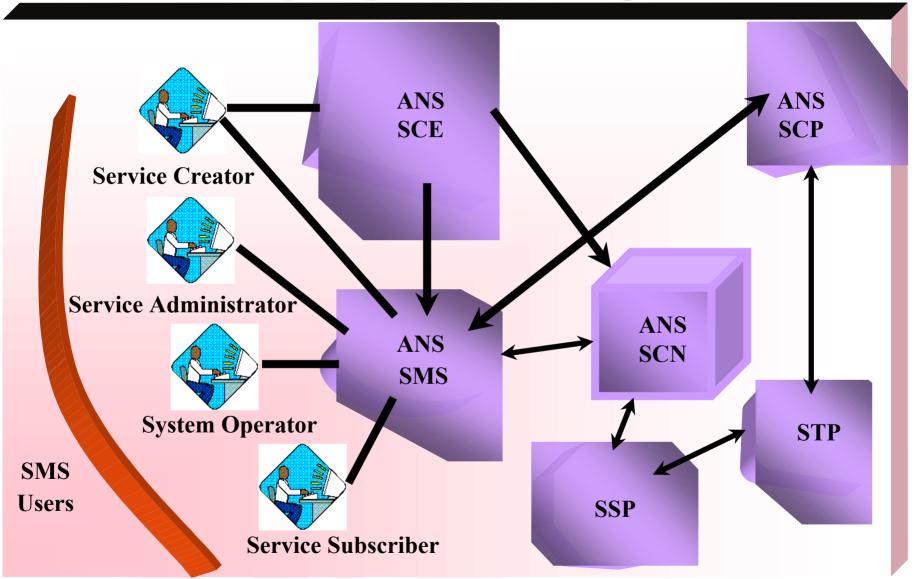


SMS

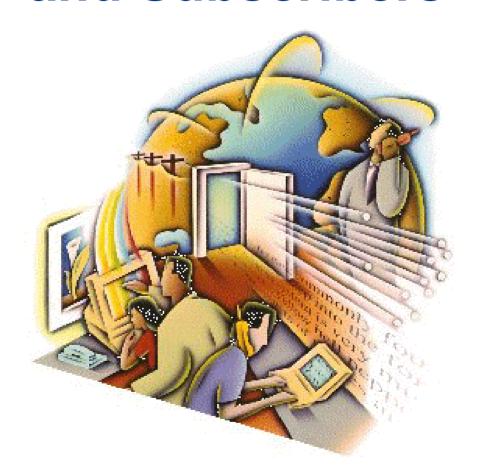
Service Management System

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Elements of ANS



Service Packages and **Subscribers**



Subscribable Services

An SP consists of one or more subscribable services.

Examples are:

- Automatic Number Identification (ANI)Security
- Multi-Location Extension Dialing
- **■** Incoming Call Screening

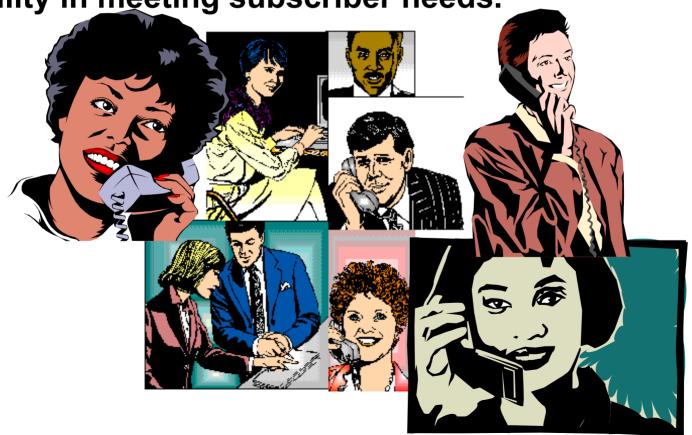


Service Package Data

Introduction

SPs can be structured in a variety of ways, allowing

flexibility in meeting subscriber needs.



SMS DATA ADMINISTRATION

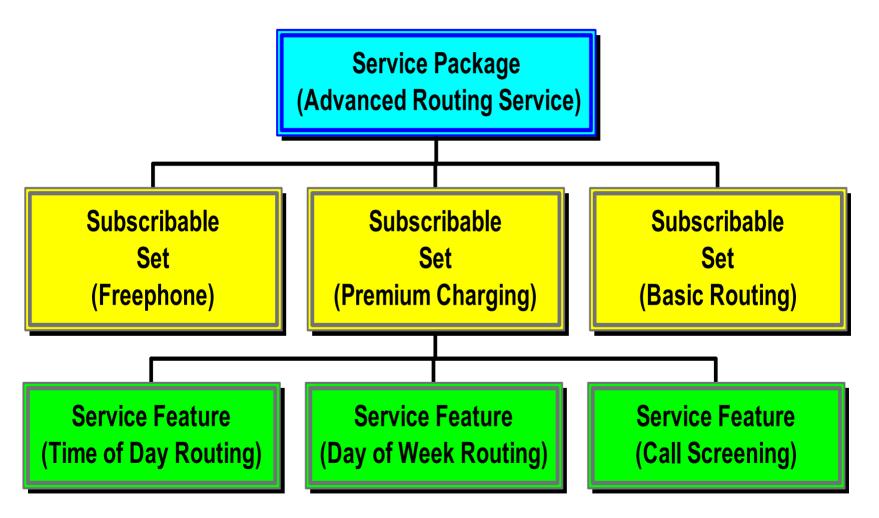
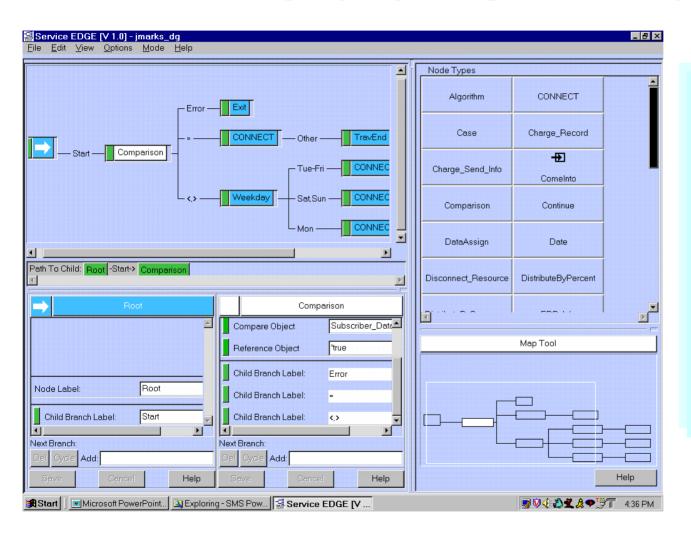


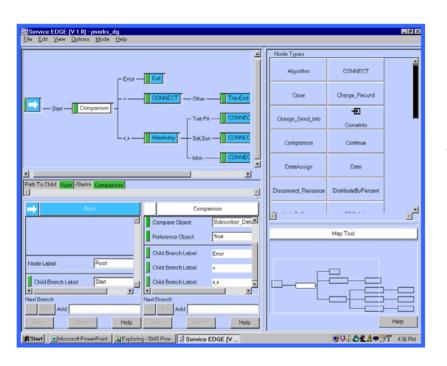
Figure 1-3 SP Services and Features

DECISION GRAPHS



A decision graph is a visual representation of service logic which can be customized for a subscription or service and distributed to SCP(s) by SMS.

DECISION GRAPHS



Decision Graphs -- DGs determine call treatments based on call parameters and other subscriber data. The DG is a set of nodes at which:

- A decision is made regarding call processing logic flow
- An action is taken in call processing logic.

Each node represents a request for a call processing resource or a logical decision.

DGs are optional. Not all SPs have DGs.

Global Partitions



Global partitions hold data that is used by any or all of the subscribers in the SP. Only designated SMS administrators can work with the data in global partitions.

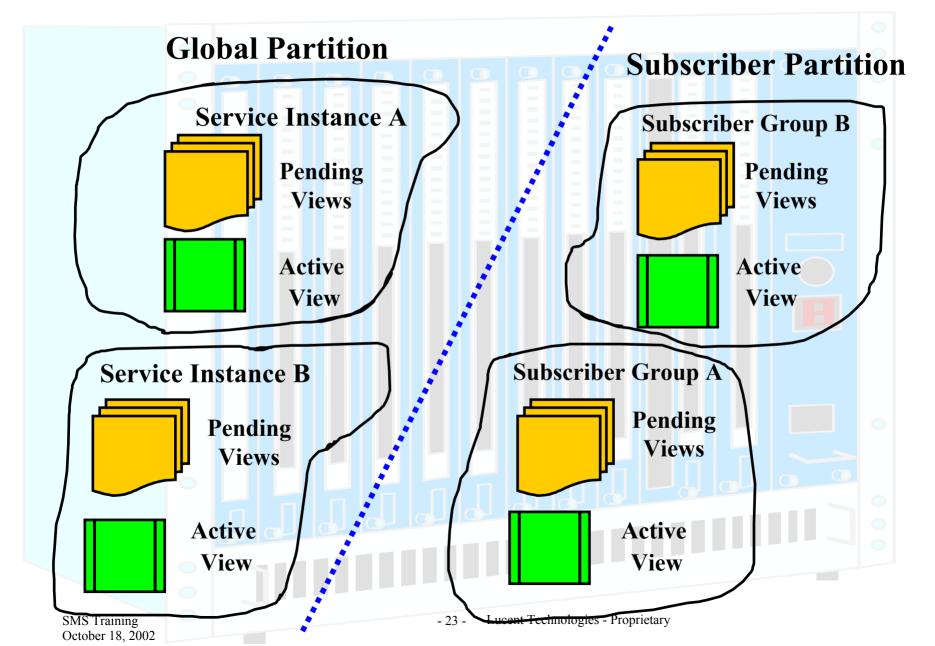
Subscriber Partitions



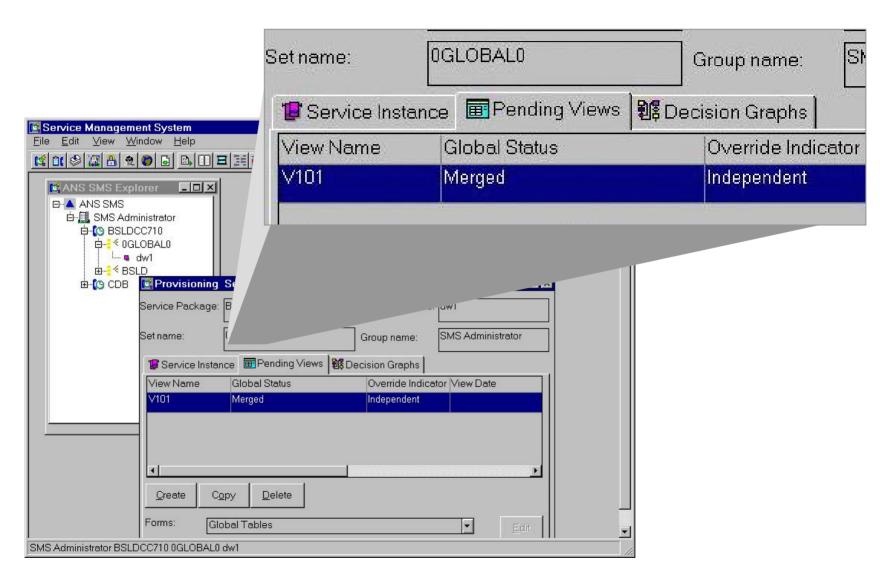
Subscriber partitions hold data for specific customers in an SP.

Users in different subscriber groups cannot look at or access each others' data. Subscriber-specific data can be accessed only by the authorized subscriber, and authorized SMS Administrators.

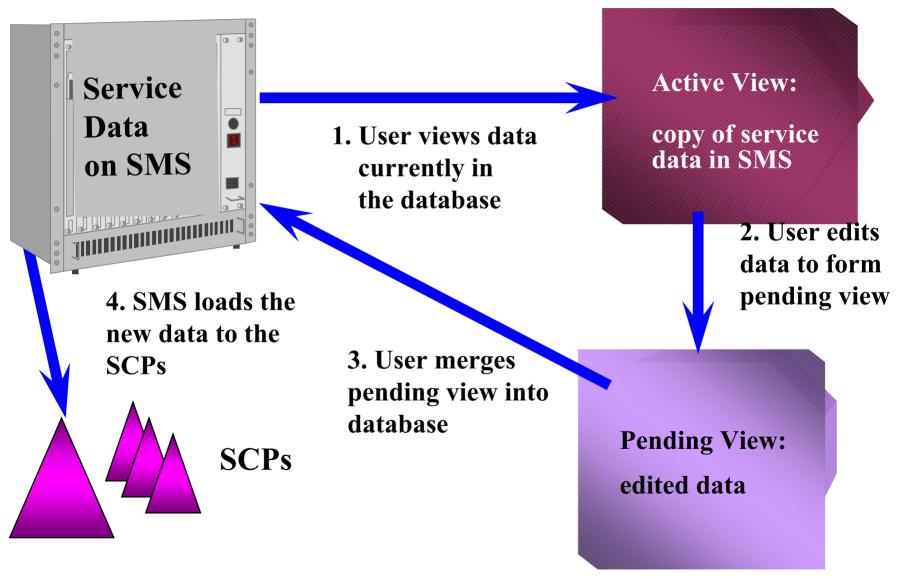
Partitions



SMS PCGUI PENDING VIEWS



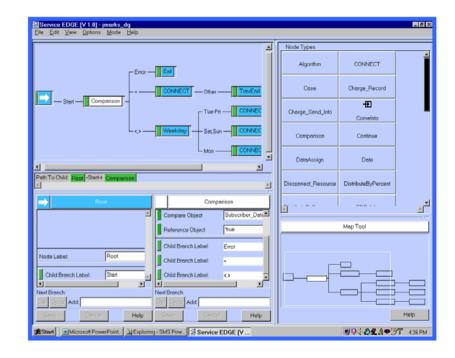
Provisioning Flow



Decision Graphs

- Decision Graphs may be loaded to the SCP if they have been amended in-line with the service data
- If they are loaded together with the data, this is called

CO-ORDINATED LOADING



Decision Graphs

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CO-ORDINATED LOADING



Initial Service Set Up

GSI Process Flow

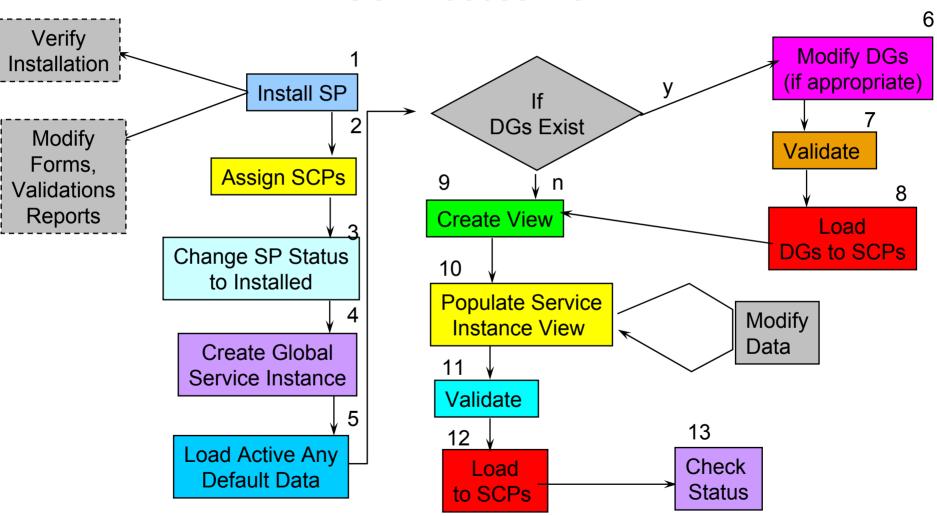


Figure 1-6

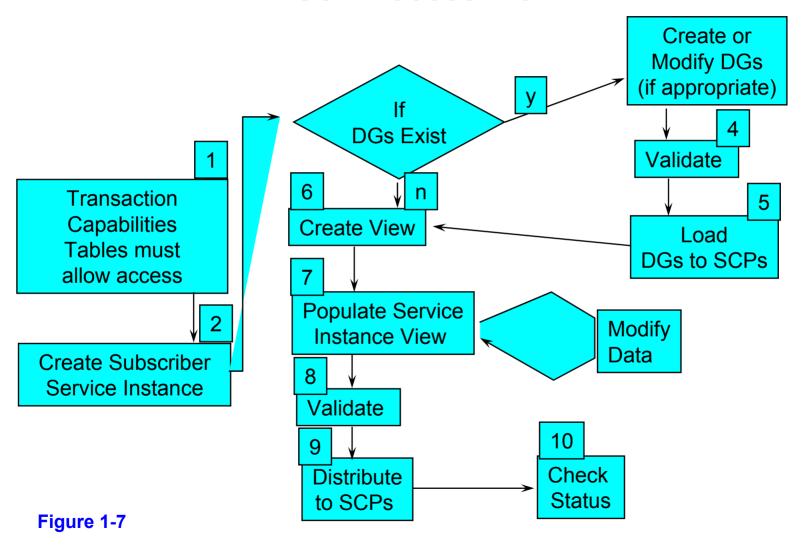
Process Flow for the SSI

This table describes a high-level process flow in Figure 1-7 for working in an SSI, if one exists for the SP.

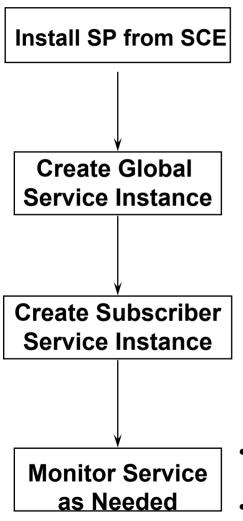
Step	Description
1	Access to the SSI environment
2	Creation of SSI if necessary
3	Validation of DGs if modified
4	Loading of DGs if present
5	Creation of a Pending View for the SSI
6	Population/editing of the View for the SSI
7	Validation of Pending View
8	Distribution of Pending View to NEs
9	Status check for verification of merge

Working With Subscriber Data

SSI Process Flow



High Level View of Installation and Provisioning



- Installation procedures produce SP "under test"
- Attach customization forms, validations, reports
- Configure SP parameters (ex: max records)
- Assign SCPs
- Create Pending View
- Edit Decision Graphs, Validate, Send
- Populate table records
- Validate and Send Pending View
- Create Pending View
- Edit Decision Graphs, Validate, Send
- Populate table records
- Validate and Send Pending View
- Repeat steps of View creation, population, validation, and sending
- Request reports
- Request service audits

The End