SemaVision™ Data Capture Overview

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Learning Objectives

By the end of this course you will be able to:

- Define SemaVision DTC component
- Understand the DTC's process and architecture
- Be able to expose the DTC's key features and business benefits
- Situate DTC in the 3G world



Course Agenda

- Part 1: The Concept
- Part 2: Process and Architecture
- Part 3: Key features and Business benefits
- Part 4: DTC and 3G



The concept

What is Data Capture (DTC)?

- The purpose of Data Capture Component (DTCC) is to isolate the External System, that provide usage data, from the business applications such as billing, fraud detection and customer profiling.
- The Data Capture Component (DTCC) enables these applications and network elements to concentrate on their primary role, leaving the DTCC to manage:



What is Data Capture (DTC)?

- The different format translations necessary between the Call Data Record (CDR) format provided by various network elements, which is very often a proprietary format, and the format expected by the business applications,
- The reliable collection and delivery of usage data



DTC in the Telecom Operation Model



Customer



Customer Interface Management Process

Sales

Order Handling

Invoicing/ Collection Customer QoS Management Problem Handling

Customer Care Process

Service Planning/ Development Product/Service Configuration Service Problem Resolution Service Quality Management Rating and Discounting

Data Capture

Network Planning Development Network Provisioning Network Inventory Management Network Maintenance and Restoration

Network Data Management

Network and systems Management Processes

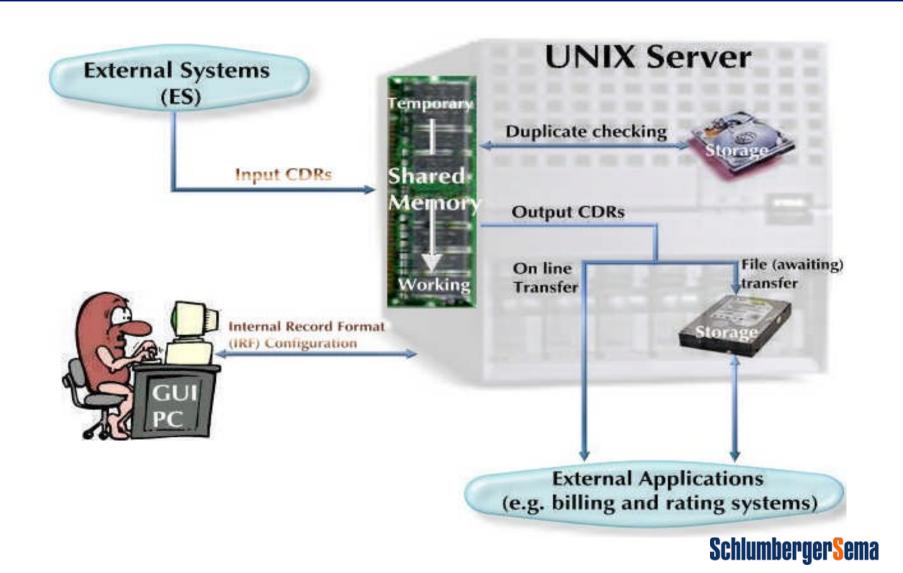
Physical Network and Information Technology



Process and Architecture



Call Data Records (CDRs) Flow



DTC Component





Key Features and Business Benefits



DTC's Key Features

- Designed to support multiple networks, including mobile, fixed-line, internet, satellite, cable and utilities.
- Designed to support current and new 3G technologies such as GPRS, EDGE and UMTS.
- Able to collect data for any type of event or usage, such as voice or data call, SMS, email and more.
- Scaleable to support subscribers growth and the increase in traffic due to data and other new services.

DTC's Key Features

- The system can be configured for the acquisition of real-time data or alternatively can receive pushed data or pull the device to obtain the data.
- The data delivery modules within the DTC component can be defined dynamically, and can be started and stopped depending on user preference.
- It can be integrated with other SemaVision modules (billing, rating or interconnect) but is a standalone mediation device that can support any billing application.



DTC's Key Business Benefits

Scalability:

The process to collect and subscribers grow.

- Volume scalability through distributed environment

OPEN TECHNOL Networks Convergence

data can be collected from redirect the data can grow as any source (fixed, GSM, GPRS UMTS, IP or other)

- Scalable in term of number of ES Architecture and Data Convergence:

- MultiNode Architecture
- Built in SQL type data retrievial system

Flexibility and Reliability:

- -Adaptable to any heterogenious network environment
- New services or External Systems set up with no system downtime
- Friendly configuration interface (GUIE)

Reduces Operator's long term costs:

- Low deployment and operational cost

FLEXIBILITY, RELIABILITY AND COSTS REDUCTION



DTC and 3G



DTC XACCT solution for 3G

