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OSS / BSS Business Testing NGN

Ekhard Konrath

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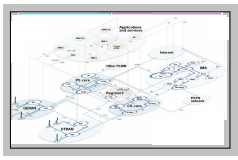

NGN Testing

Next Generation Network Testing

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ATS Application Testing for NG Networks

Testing is a decisive Factor in ensuring Interoperability on an Application level

- ETSI standards are designed for interoperability between OSS/BSS and Network Systems based on Object Models
- ATS based on Object Models, ATS System configuration based on Networks and Applications (Business Processes)
- ATS automatic Test case generation (good, bad-cases), Test case execution and evaluation of the success, automatic result Analysis and Test-Report generation
- Application Testing guarantee interoperability of OSS / BSS Systems and the different Networks
- Where testing is applicable, Operators demand high-quality in interoperability testing

OSS/BSS Business-Processes & Acceptance Testing

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Business Process Functional Testing OSS-BSS / Networks

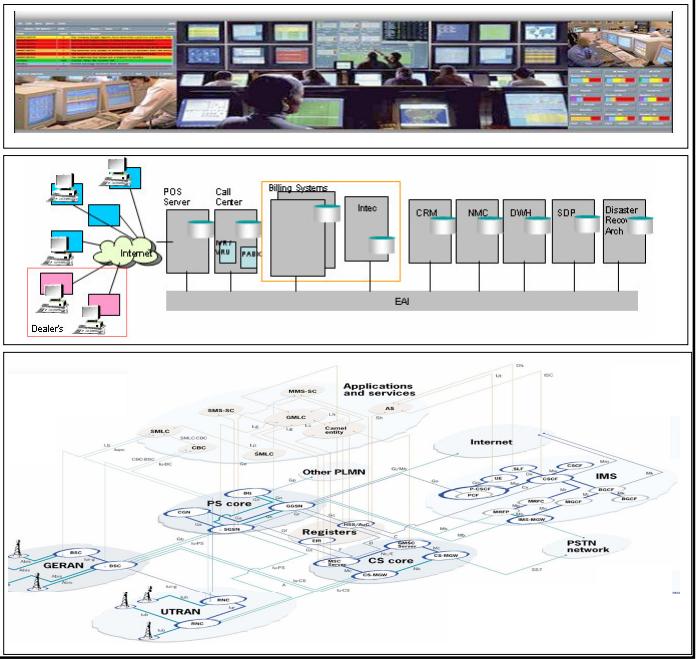
Business Process Functional Testing OSS-BSS / Networks

Integration Interoperability Testing OSS-BSS / Networks

Acceptance Testing Networks

OSS / BSS Systems

Networks



ATS Application Testing System

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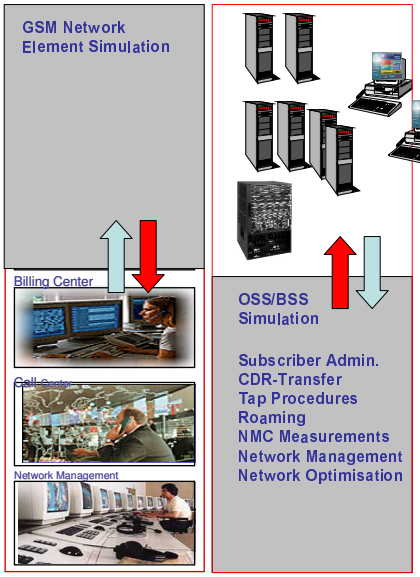
Application Test System



Features

- o Testing local / remote round the world
- o Transmission encrypted & compressed
- o Setup Object Models for Business Processes
  Subscriber Admin, Roaming, Billing, Network optimisation
  Bill_printing, Customer Care, Sales at POS etc.
- o Business Process Elements to set up
  each Standard BP and extensions for
  different Supplier and BP from the Operators
  Keanen, Amdocs, LHS, Portal
- o Automatic Test Case generation, good / bad Cases for
  different Elements and Project Phases
- o Test Case Editor to extend the Test Cases
- o Standard Test Cases for each Project depending on
  Configuration in the GSM Network and Features; and
  extensions for Operators Test Cases
- o Version Control for Test Cases and Projects phases
- o Holding more versions of the Test Cases and the results
- o Automatic testing and test reporting , in problem case
  automatic Error Analysis
- o Extendable for new Services as GPRS, UMTS etc.
- o Project configuration definition over NE, MD and OSS/BSS
  components
- o Automatic adaptation to the Project specific configuration
- o Parallel execution Tests of several Projects

ATS Application Testing for NG Networks

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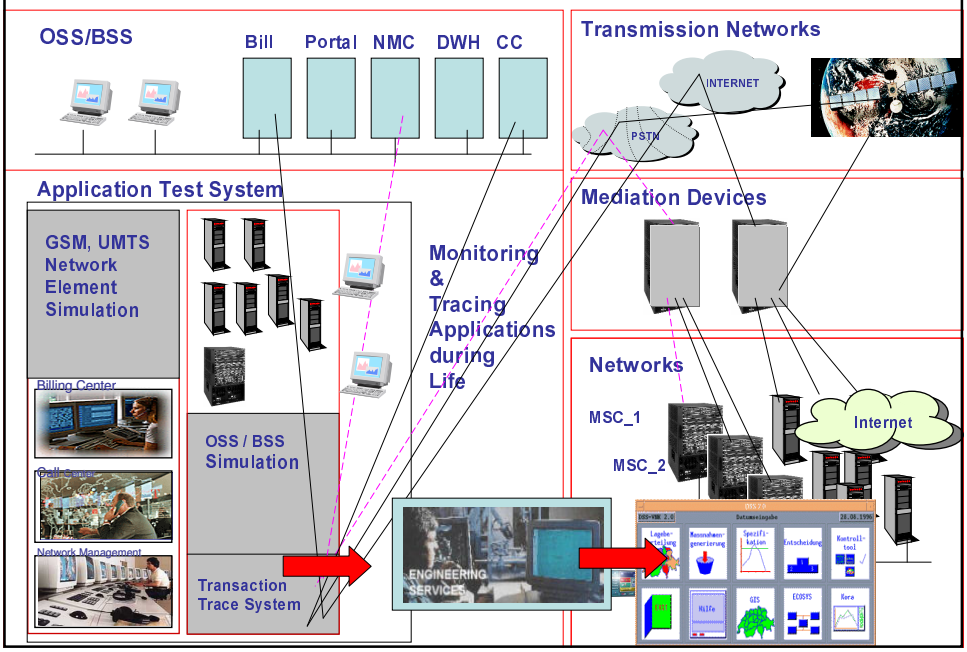

ATS Remote Application Testing

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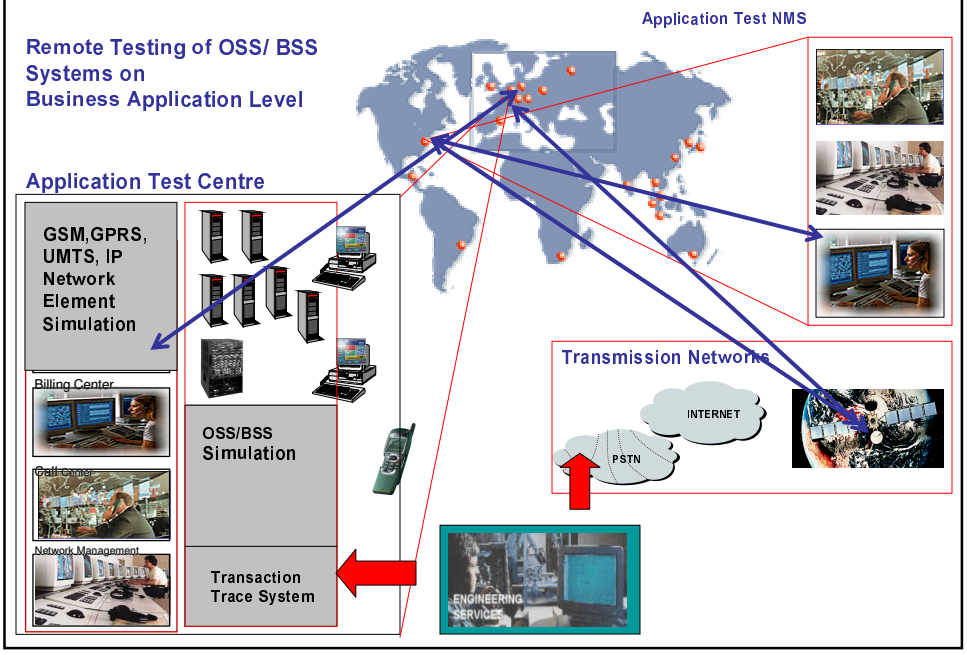
Remote Testing of OSS/ BSS Systems on Business Application Level



ATS Application Testing for NG Networks

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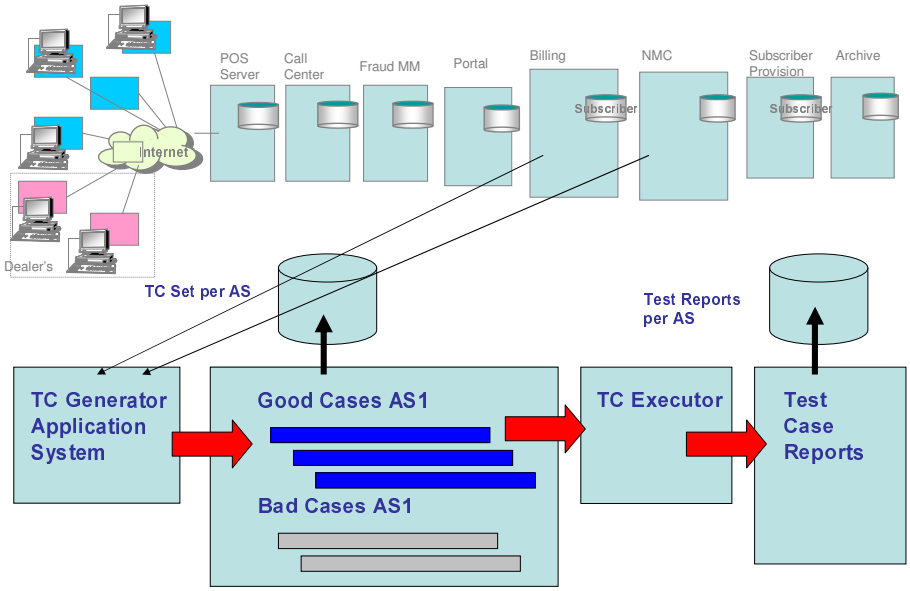
Automatic Test Case generation of OSS/BSS Applications (North bound)



ATS Test Case Generation / Execution

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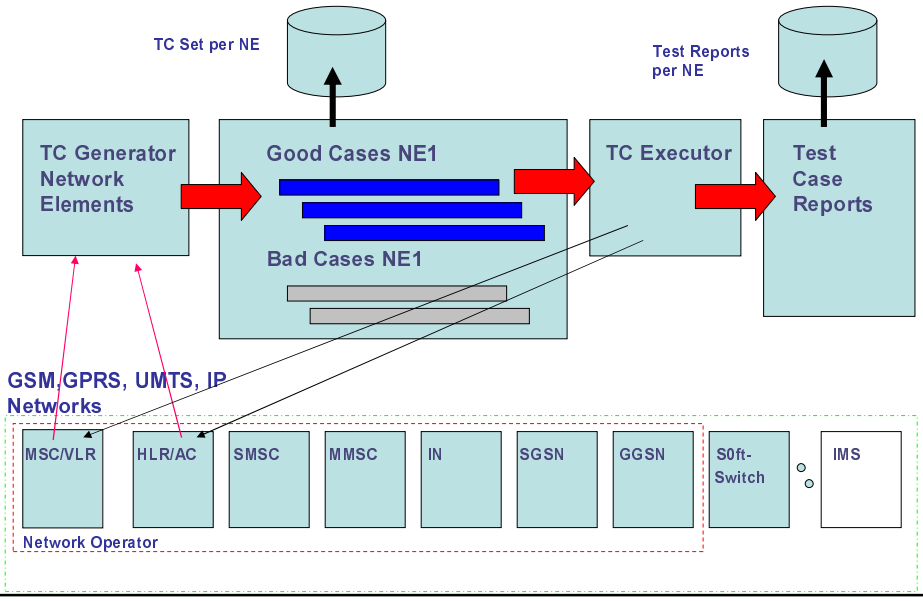
Automatic Test Case generation of Application (South bound)



ATS Application Testing Management for NG Networks

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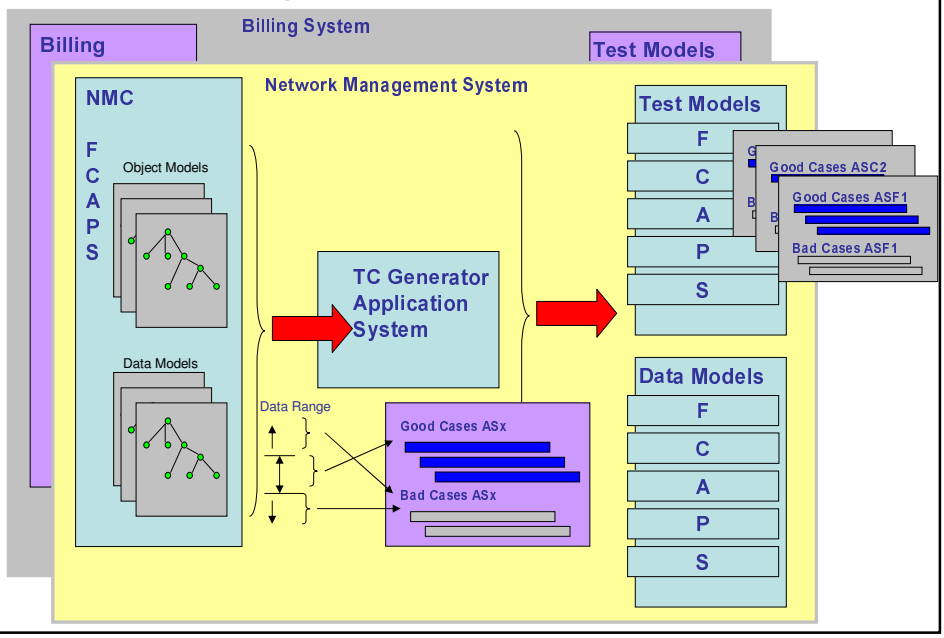
Automatic Test Model generation of OSS/BSS Applications



ATS Application Testing Management for NG Networks

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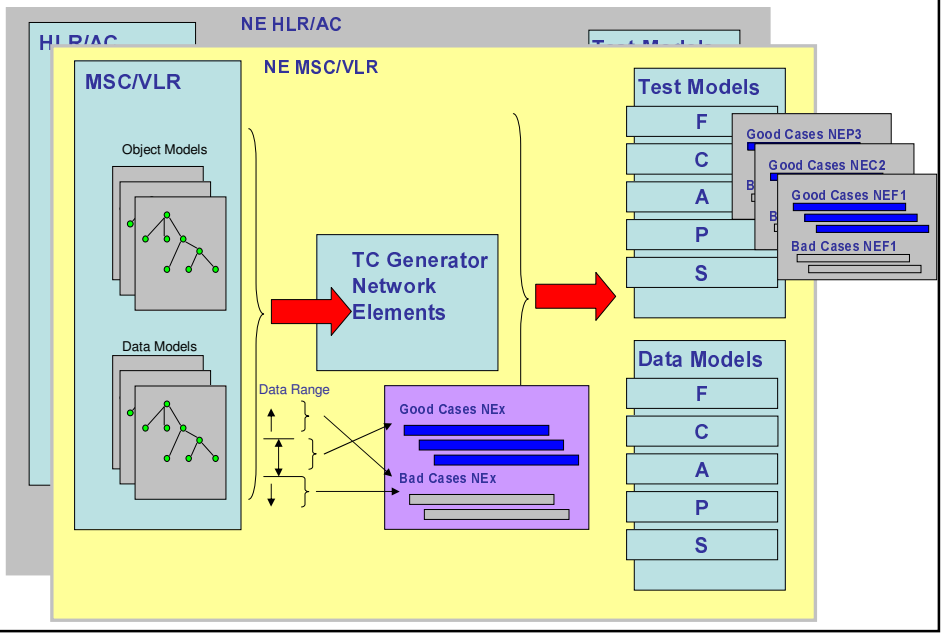
Automatic Test Model generation from NE



ATS Application Testing Management for NG Networks

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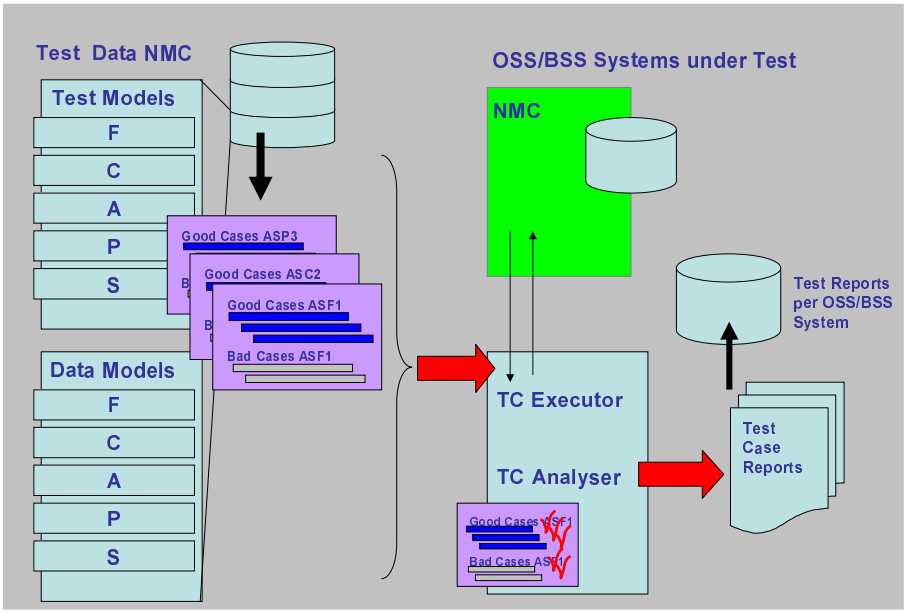
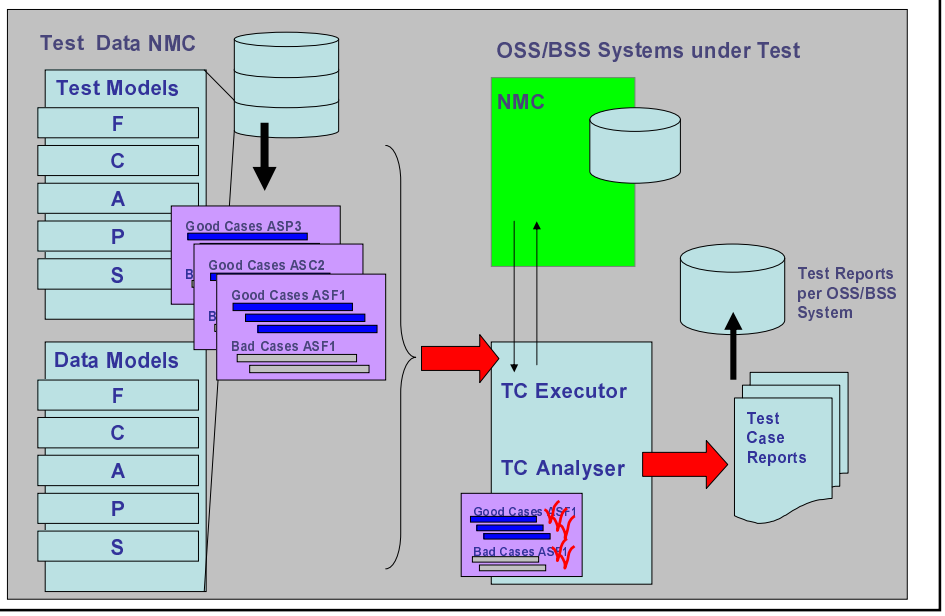
Automatic Test CASE Execution



ATS Test CASE Execution

OSS BSS Technologies

Automatic Test CASE Execution