# **BULSUS** Hardcoded Cuality

# Factos

2022/10/15

FactOS-2022-10-A0

#### **About Us**

# Boutsus

OutSys delivers innovative carrier-grade solutions and services to implement, simplify, and speed up the integration, provisioning, management, and testing processes in the Broadband Service Providers Networks and their Information Technology Systems

**Active Member of the Broadband-Forum** 

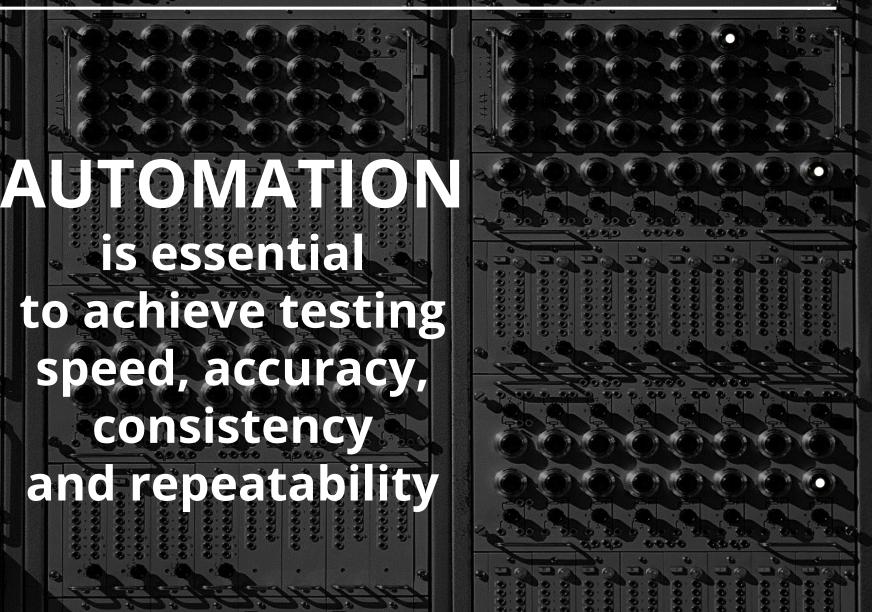
#### Solution



#### Portfolio

#### FactOS is part of the CPEs, IP Devices, and Network Services Laboratory Testing Solution Portfolio

#### Mode

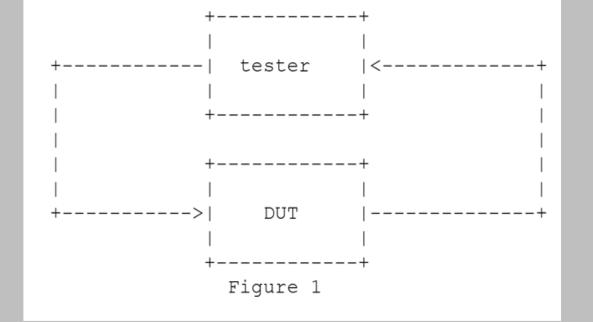




#### Paradigm

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RFC 2544 Basic Layout

... The ideal way to implement this series of tests is to use a tester with both transmitting and receiving ports. Connections are made from the sending ports of the tester to the receiving ports of the DUT and from the sending ports of the DUT back to the tester ...

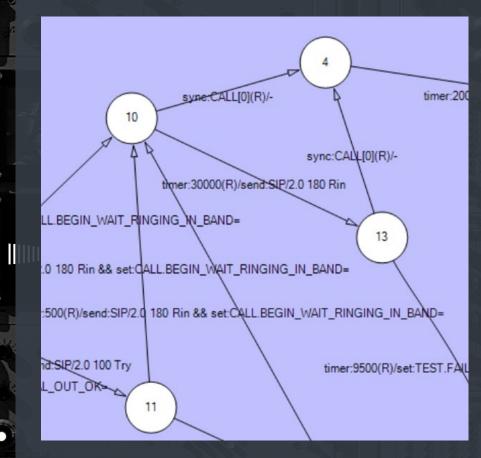
#### Virtualization

#### Implementing Network Software Defined Objects extends the RFC 2544

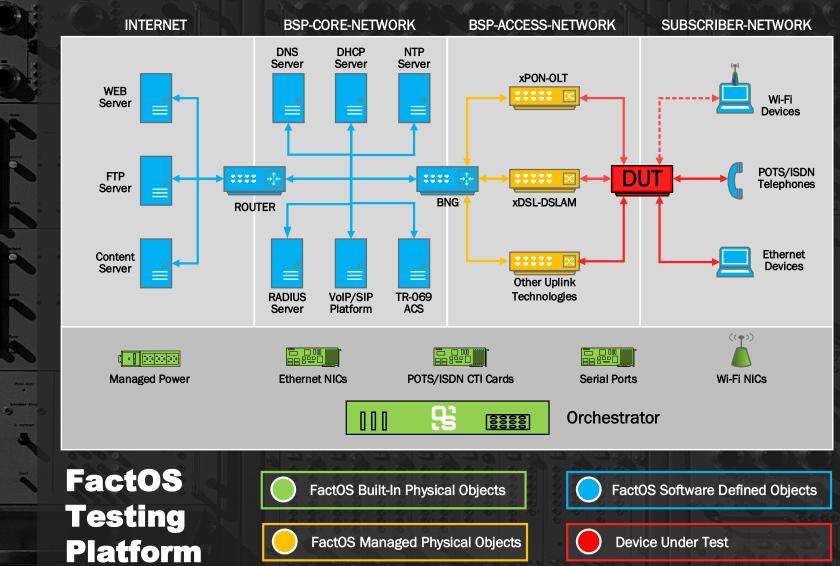
testing paradigm to all the DUT testing areas

#### NSDOs

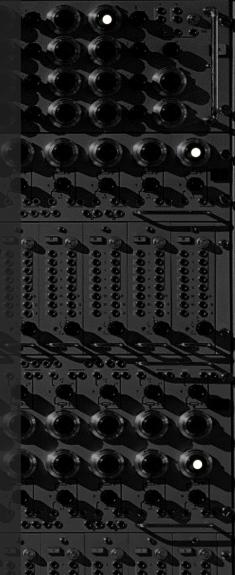
#### **All Network Software Defined Objects are**. implemented from Layer-2 and have their own programmable **State Machine**

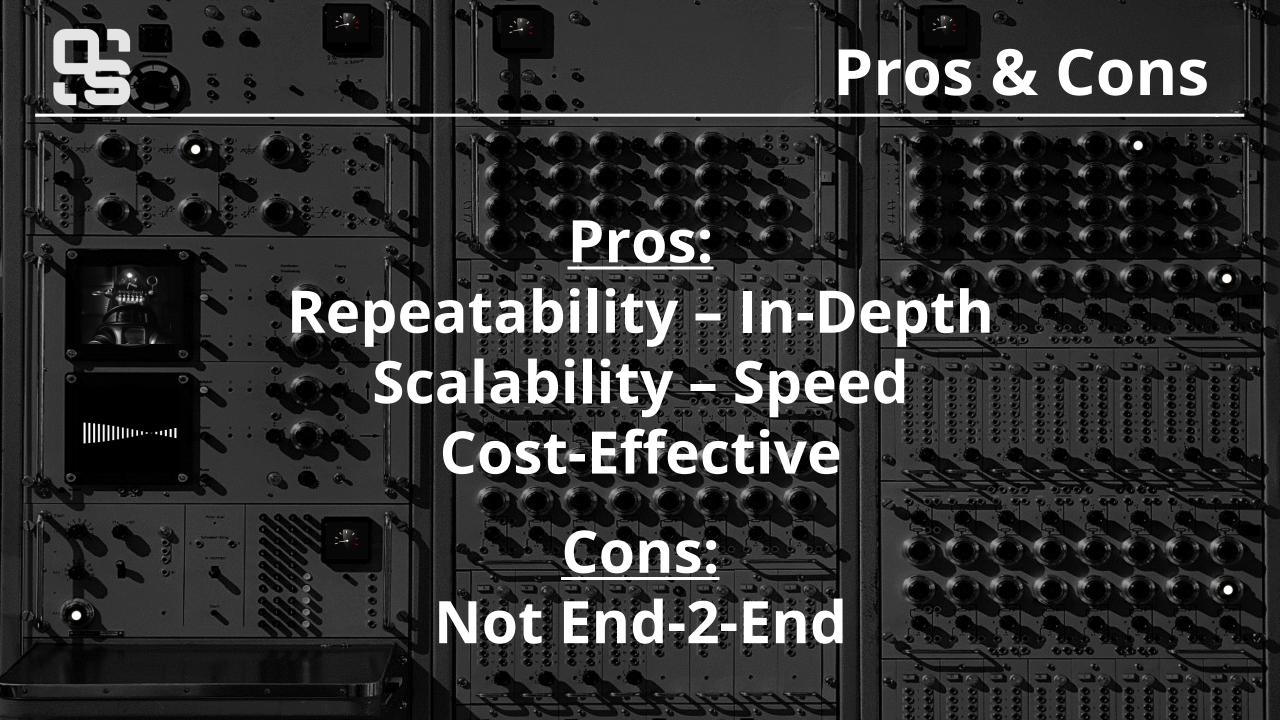


Virtualized Test Bench Schema



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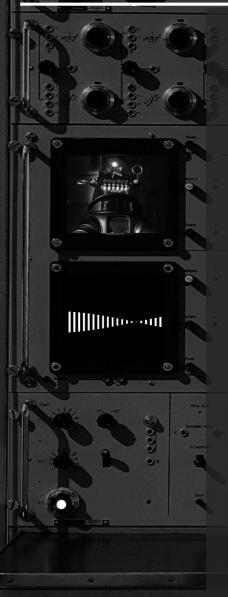


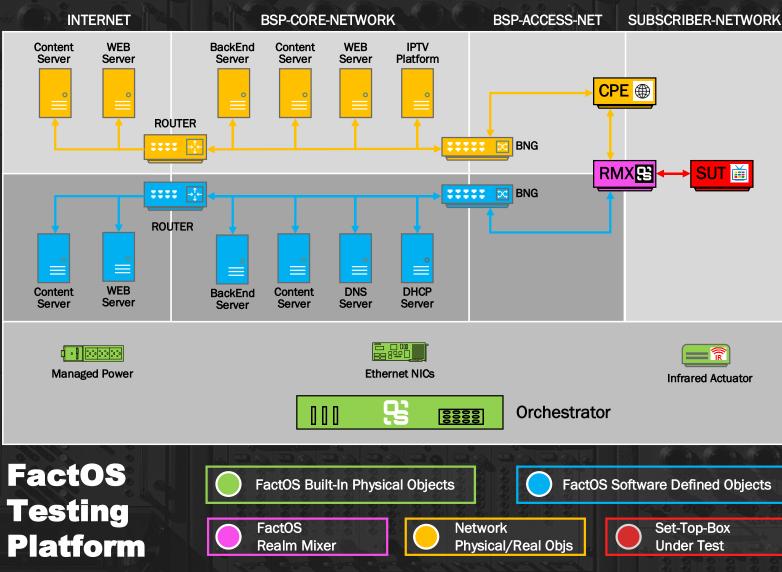


#### Hybridization

#### A Realm-Mixer Agent is used to achieve a **Hybrid-Testing Platform with Software Defined Objects** and Real Network **Objects & Services**

#### Hybrid Test Bench Schema





#### **Test Portfolio**

#### Hundreds of test available: Stack IPv4 & IPv6 IPOE (DHCP) / PPPOE NTP – TR-069 Management DHCP-Server - NAT - 6rd VoIP SIP

etc.

#### **New Tests**

#### FactOS is a flexible and extensible framework that allows the development of new tests in a easy, fast, and straightforward way



# Entroperability

Performance Load Stress Security





#### **Functional Testing** is the process of determining the DUT subsystems compliance and adherence to standard and custom protocols & requirements

#### Interoperability Testing is the process of determining if the DUT subsystems can work in conjunction with other software and hardware

systems

# Performance Testing

#### is the process of determining the DUT subsystems speed and efficiency

#### **\_oad Testing** is the process of determining the DUT subsystems behavior under normal and peak workload conditions

#### **Stress Testing** is the process of determining the DUT subsystems Iong-term stability and reliability

### Security Testing

#### is the process of determining if the DUT subsystems are flawed, vulnerable, and/or penetrable

#### T&RC

#### **CPE Test & Regeneration Center** On average less than one out of ten CPEs replaced in the field has hardware issues A FactOS version is available to verify all the **CPE hardware subsystems and upgrade** their firmware to optimize and speed up the refurbishing process

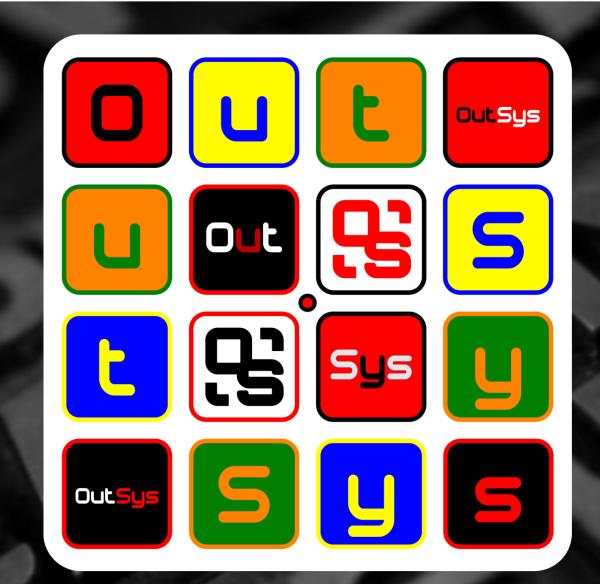
#### **Offer Models**

## Factos

#### Available as Turn-Key or Testing-as-a-Service Solution

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#### **Thank You**



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