Test Group Competition

**Golden&Customer SCF Auto Deploy Tool**

**Background**

During 5G product testing,We are planning to enhance Customer SCF and Golden SCF test coverage，especially for customer usage scenarios including customer feature combinations.

With traditional way，we need to modify each test line SCF by manual. It is huge effort to modify huge number of MOs and parameters. Hard to extend to all team, easy to make some mistakes, hard to maintain.

Testers hope to develop an auto deployment tool for customer SCF and golden scf deployed to SRAN/5G/VRAN test line.

**Requirement**

Now we have a tool LTEPAT(LTE/5G Performance Analysis Tool) SCF Viewer module can convert scf.xml to excel. Then we can get feature enable list and MO parameter information. One customer template：



Meanwhile test team also make a summary with different customer SCF and different new feature test result. Then we have a golden excel template，one test team golden template：



Auto deployment features and parameters:

Feature marked as enabled in customer template. Feature related parameter should be considered.

All parameters with Parameter Type=A in Test team Golden template.

Auto Deploy MO and Parameters to any（5G,SRAN,VRAN）test line.

Test line SCF example：



**Output**

Design document，customer document，code, tool.

Send above links to email [Hangzhou TC, Communist Youth League (NSB - Global)](mailto:communist_youth_league.hangzhou_tc@nokia-sbell.com?subject=[FutureX])

（中文版）**测试组比赛题**

**Golden&Customer SCF自动部署工具开发**

**试题背景介绍**

在5G产品测试过程中，我们计划增强对Customer SCF和Golden SCF的测试覆盖，特别是覆盖客户复杂场景下各feature组合使用情况。

如果沿用传统的方式，针对每一个测试线采用手工方式对每一个feature的MO/参数逐一增删改，需要耗费大量的时间，且容易出错，推广成本高，维护不易。

因此测试工程师希望开发一个自动化解决方案，自动完成当前测试环境（SRAN，5G，vRAN）中Customer SCF及Golden SCF修改校验及部署。

**需求**

目前已经有自动工具LTEPAT(LTE/5G Performance Analysis Tool) SCF Viewer 模块，可以快速将各产品客户scf.xml文件快速转换成为excel，并快速得到客户feature的开启情况及参数MO和取值信息。某客户表格如下：



同时测试部门针对不同客户配置参数及不同新feature参数的测试情况进行总结，制定golden 参数表格，某测试团队表格如下：



Feature list中标记为enabled 相关feature的参数及Golden configuration表格所有Parameter Type=A的参数，即需要推广部署的参数。

将上述参数，尽可能自动部署到任意的5G产品（5G,SRAN,VRAN）测试线。完成当前测试线SCF的修改校验激活。

测试线SCF样本：



**输出要求：**

将接口逻辑等设计文档，客户文档， 程序代码，工具所在链接，发送到指定邮箱。

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