PoC#8: Intent-based user experience optimization
Poc Scenarios @ ENI#13

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PoC Project Milestones

PoC Milestone	Stages/Milestone description	Target Date	Additional Info
P.S	PoC Project Submission	12/2019	Baseline Demo
P.TP.1	**PoC User Story finalization**	**03/2020**	**Finalization of the high-level description of the scenario described In Section 2.**
P.TP.1	PoC Test Plan 1	07/2020	Initial phase 2 Verification.
P.D1	PoC Demo 2 for PoC Project Goal #2	09/2020	Demo at an ENI plenary meeting.
P.R	PoC Report	11/2020	PoC-Project-End Feedback
P.E	PoC Project End	12/2020	presented to ISG ENI for information

Scenarios design

In the Baseline Demo, we have finished the translation and execution of intent policies, so this stage, we are going to design two more Scenarios to verify the intent-maintenance procedure:

Scenarios	Description
Scenario1: Basic Intent translation and execution	• Precondition: Ue connects to the LTE network, and receives datastream from the test server. • Step1: Build an intent on the front UI, which will be sent to the Intent system with the northbound interface . • Step2: The Intent system translates and excutes the Intent policy, the results can be observed from the monitor provided by OSS system.
Scenario2: Intent maintenance under weak coverage	• Precondition: After scenario1 , the intent policy has been satisfied successfully. • Step1: Move the ue to the place1 where the Wireless coverage is weak, we will find that the intent policy can not be satisfied. • Step2: Intent system collects KPI data from OSS periodic, compares RSRP value of UE with the threshold value of weak coverage scene , if matched, Intent system will get the particular MML commands from Intent database and execute them, to maintain the intent policy, the results can also be observed from the monitor provided by OSS system.
Scenario3: Intent maintenance under high loading	• Precondition: After scenario2 , the intent policy has been maintained successfully. • Step1: Open the Interference cell, move the ue to the place2 where covered by Interference cell, we will find that the intent policy can not be satisfied. • Step2: Intent system collects KPI data from OSS periodic, compares PRB-utilization value of main-test cell with the threshold value of high loading scene , if matched, Intent system will get the particular MML commands from Intent database and execute them, to maintain the intent policy, the results can be observed from the monitor provided by OSS system.

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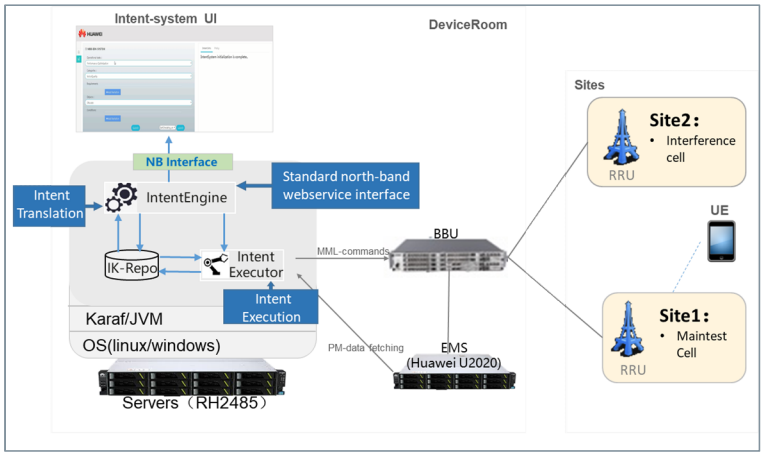
Poc-site View

Poc-site Info

- SJTU(Shanghai Jiaotong University)
- 2 Building for Cells
  - Maintest-Cell
  - Interference-Cell
- 2 Test Places
  - Place1: for weak coverage scene
  - Place2: for high load scene
- 1 UE
- DeviceRoom : OSS,RRU,BBU etc.



THANK YOU !