

Testbed Focus Group

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background



business problem

- Industry transition initiatives call for testbeds to validate solutions or provide proof of concept in all-IP migration and to facilitate interoperability testing between providers.
- Testing on an individual provider basis requires unnecessary duplication of many functions and are inefficient to implement and maintain.

Testbeds Focus Group's scope of work:

- Identify common requirements and recommend a path forward in the areas of numbering, routing, and authenticated caller-ID.
- Explore potential value in combining separate activities into a common testbed support capability.

Testbed Focus Group Frame of Reference



Testing

proof of concept
does not imply
industry
acceptance, only
a recognition
that
ideas/concepts
can be tested

ATIS Testbed Focus Group

taken a position of
not judging the
validity of proposals
but instead letting
company
participation be the
indication of interest
in testing concepts.

Test Plan submission

the completion of
proof of concept
testing should
NOT be
considered as
industry
approval.

Testbed Focus Group - Use Case Status



start

Since inception, the Focus Group has developed ten (10) Use Cases

Two - Numbering

Seven - Routing

One - Secure Telephone Identity

finish

Finalize test plans and begin testing on active Use Cases:

Number Assignment (JIT/ITN):

LERG Routing Guide IP Enhancements

8YY IP Routing

Secure Telephone Identity (STIR/SHAKEN)

Testing will occur in phased approach, each with its own timeline.

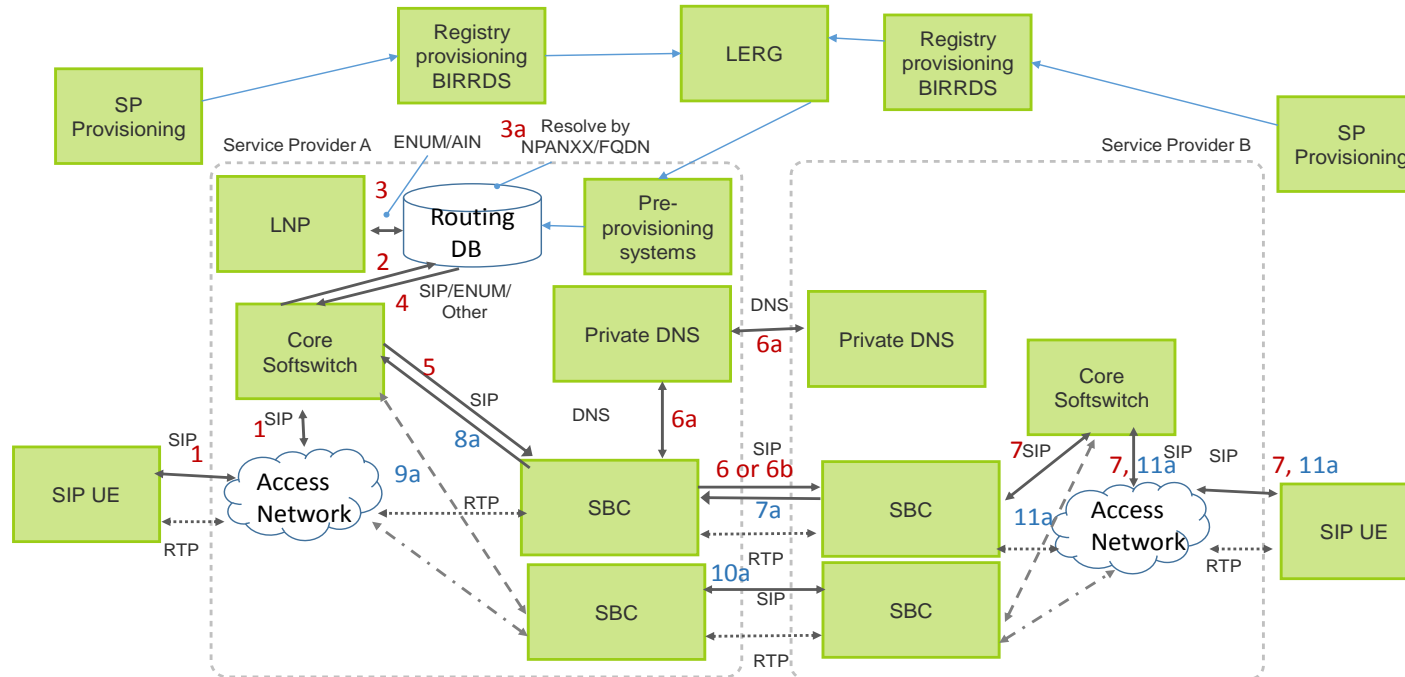
Numbering JIT/ITN Use Case Traceability Matrix



Use Case	Test Plans	Lead Contributors	Testing Participants	Testing Observers (still require NDA)	Status/Timeframe
5.1.2 Numbering Use Case 1 – JIT/ITN Using Existing Systems	00013R002 (In progress)	Neustar	Neustar	AT&T CenturyLink INCOMPAS Sprint Cox Inteliquent JSI	Phase 1 complete, Phase 2 on hold .

- Main objective is to demonstrate allocation of numbering resources on a real-time, per customer basis.
- Test Plan split into phases:
 - Phase 1 – Testing in Lab environment to assess feasibility –
 - Completed in June 2017
 - Phase 2 – Upon successful completion of Phase 1, and receipt of consent, include Live System Testing. Note: No further testing is currently planned until/unless industry participants desire to perform external live testing.

LERG-IP Routing Use Case Test Configuration

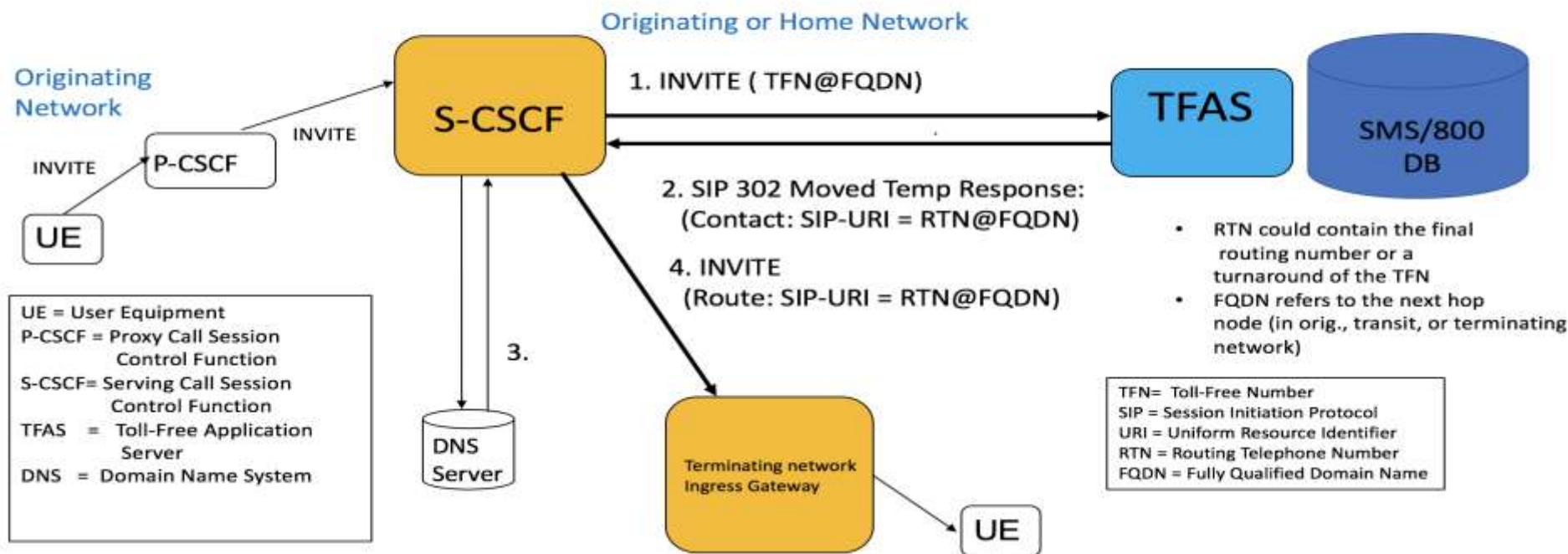


- Enhancing the LERG™ Routing Guide to support fully-qualified domain names (FQDNs) that can be used for routing purposes.
- Status:
 - iconectiv has prepared required test files with FQDNs
 - Intelliquent and Telynx preparing network for internal testing
 - Testing is expected to begin late 4th Q/1Q 2018

8YY Routing Use Case Test Configuration

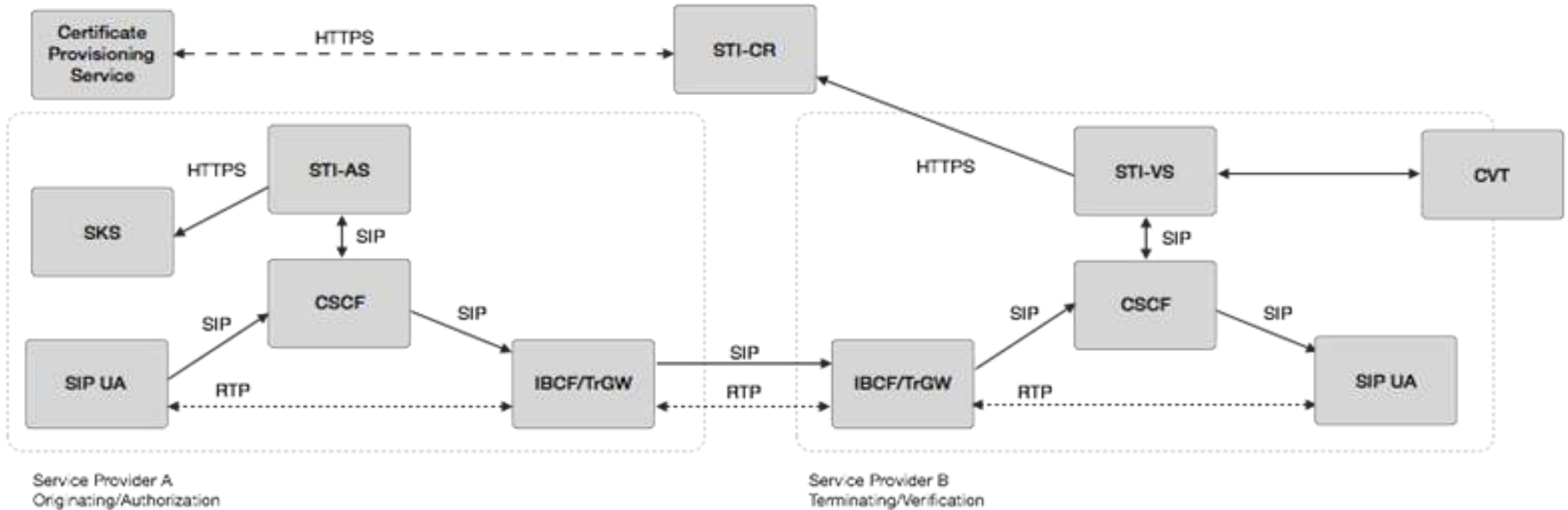


Toll Free 8YY Call Processing on all-IP Network



- Testing successfully completed 4Q2017
 - Scenario 1 - Routing Based on Toll-Free Number (TFN) Only
 - Scenario 2 - Routing on TFN and Originating NPA-NXX
- Future testing will transition to STIR/SHAKEN testing

STIR/SHAKEN Use Case Test Configuration



- ATIS Robocall Testbed launched to promote industry testing and broad adoption of above SHAKEN framework.
- Virtualized industry test platform to help service providers, suppliers and third parties verify implementations of this ATIS framework.

summary



Number Assignment JIT/ITN

- On Hold

LERGTM Routing Guide IP Enhancements

- Testing underway and expected to be completed in 4Q2017/1Q2018

8YY IP Routing

- Testing completed in 4Q2017
- Future testing will transition to SHAKEN/STIR

SHAKEN/STIR testing

- Testing to continue into 2018 and potentially be expanded for automated certificate management (ATIS-1000080)



thank you