PROXY FEATURE INDICATION

Use-cases & Requirements

### draft-holmberg-sipcore-proxy-feature

Christer Holmberg

Ivo sedlacek

DEFINITION

› The feature indicator indicates support of a feature or capability.

› Success of call must not be dependent on whether other entities support the feature (or the meaning of the feature indication).

SERVICE CONTINUITY IN A NUTSHELL

› In order to enable gradual deployments of voice communication over IP networks, 3GPP designed so called service continuity, i.e.

– When in area with good quality IP network, the UA establishes voice communication using SIP

– When moving to area with IP network with insufficient quality, the SIP session(s) are transferred to the traditional circuit switched call (s)

› Service Centralization and Continuity Application Server (SCC AS) is an application server which anchors the SIP sessions and controls the service continuity

SERVICE CONTINUITY IN A NUTSHELL
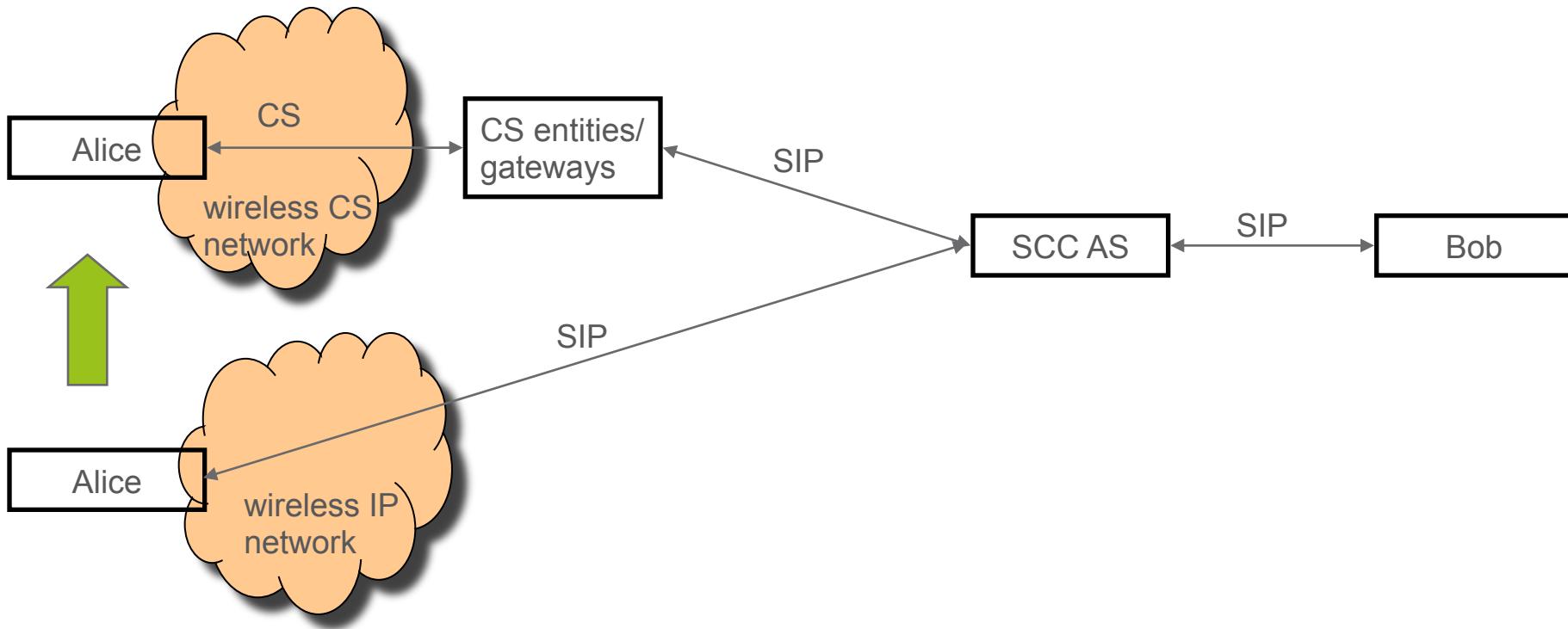
USE-CASE: ENHANCED SERVICE CONTINUITY

› In order to minimize the impact of the handover, an SCC AS can delegate some parts of the session handover functionality to an Access Transfer Control Function (ATCF)

› When a user registers, the edge proxy invokes an ATCF.

› The SCC AS needs to be informed that an intermediary providing ATCF functionality can be used for the registered user.

USE-CASE: ALERTING SERVICE CONTINUITY

› The alerting service continuity feature allows the session transfer to take place during the alerrting phase of the session establishment.

› The UA needs to be informed that the SCC AS associated with the session supports the aSRVCC functionality.

USE-CASE: INTER-UE TRANSFER

› The SCC AS serving one of the UAs in a session acts as local hub for the session. The UA controls the media of the session and is called controller UE.

› For a given session, there can only be one local hub at each side (originating/ terminating) of the session.

› When medua transfer occurs, the SCC AS serving the controller UA transfers media of the session to other UAs, called controlee UAs, by sending an INVITE request to the controlee UAs, offering the media to be transferred.

› When the INVITE request is routed towards the controlee UA, the SCC AS of a controlee UA cannot act as local hub, thus the SCC AS serving the controlee UA needs to determine whether another SCC AS (i.e. that SCC AS of the controller UE) that provides local hub capability is already in the signalling path.

› The SCC AS needs to be informed that there is another SCC AS associated with the session that supports the local hub functionality.

USE-CASE: MISC

› Service discovery

› PBX features

› Use-Path-to-generate-Service-Route

› Home network feature discovery

› Additional service continuity use-cases

› …

REQUIREMENT

› IT MUST BE POSSIBLE FOR A SIP ENTITY, ACTING AS A SIP PROXY, TO INDICATE, DURING REGISTRATION OR SESSION ESTABLISHMENT, SUPPORT OF A FEATURE TO OTHER SIP ENTITIES THAT ARE INVOLVED IN THE REGISTRATION OR SESSION ESTABLISHMENT TRANSACTION.

QUESTIONS TO THE COMMUNITY

› **QUESTION 1**: ARE WE WILLING TO WORK ON A SOLUTION TO SOLVE THE REQUIREMENTS?

› **QUESTION 2**: CAN THE DRAFT BE USED AS BASE DOCUMENT FOR DOCUMENTING SUCH SOLUTION?

› (**NOTE**: We are not asking to agree/disagree to the protocol mechanism in the draft at this point.)

THANK YOU FOR LISTENING!

CHRISTER.HOLMBERG@ERICSSON.COM