

# Editing Exercise

**Below is a sample design document.**

For the test, do the following:

- ② Simplify the document by grouping the information into logical sections. Create appropriate section-titles.
- ② Create a follow-up questionnaire for the components that need further understanding. Avoid open-ended questions.

Main characteristics and assumptions related to the architecture:

1. Presence is tracked for contacts, marked as “Buddies” through the phone UI.
2. Contacts can arrive to the phone from various sources:
  - a. Manual Entry via the phone Contacts UI
  - b. Save from the History/History application – the phone UI
  - c. Enterprise systems:
    - i. One-way sync with Microsoft Exchange personal contacts store for the user
    - ii. LDAP search of an Enterprise directory via the browser
3. Presence tracking is managed by the Aura™ Presence Server (PS).
  - a. PS is also responsible for enforcing Access Control Lists, which could block certain users from being watchers of others.
  - b. PS is responsible for generating IM handles for Presentities, and notifying watchers as to those handles
4. The phone uses UPM/PPM as a contact store for the “Local Contacts” in the phone
  - a. In addition, PPM will be used as a buddy list store
  - b. the phone will bi-directional sync its Local contact cache with PPM
5. SIP messages routed by SM provide the actual channel through which Presence information is transmitted:
  - a. Subscription for a given buddy list (the phone to PS via SM)
  - b. Publication of own presence (the phone to PS via SM)
  - c. Notification of presence state changes for a buddy (PS to all approved watchers through SM)

## **1.1.1.1. Identity Mapping for Presence**

Identity mapping for presence will be based on the contact’s enterprise phone number, in enterprise canonical format (i.e., no short dial strings and no delimiters or + signs).

As it’s sometime unclear which of the phone fields in a contact record map to the enterprise number, the phone will use the field marked as “primary” phone.

Presence will only be tracked for Enterprise users who are also Aura™ explicit users.

## Solution

### Presence Overview

Presence is an Instant Messaging (IM) service that allows the enterprise users of Aura™ to share their status update with and watch for the status updates of their favorite contacts, called Buddies. The users can:

- Subscribe to existing Buddy lists or specify their own Buddies from their phone to become status watchers.
- Share own status update, which can be viewed by other watchers.
- Control who can watch their own status and block specific users.
- Receive status updates for the specific Buddies or all Buddies in their subscribed lists.

The key terms used in this overview and their definitions are as follows

Terms	Definitions
<b>PPM</b>	
<b>Presentities</b>	Aura™ users who use Presence to publish and watch for status updates
<b>SIP</b>	Messages routed by SM that transmit Presence tracking information.
<b>SM</b>	
<b>UPM</b>	

### Presence Architecture

Main characteristics and assumptions related to the architecture are as follows:

- Presence is tracked through the phone UI for contacts marked as Buddies.
- Contacts can be received on the phone from the following sources:
  - Phone UI:
    - Manual entry through the Contacts UI
    - From History application or Save from the History function in the phone UI
  - Enterprise systems:
    - Synchronization with Microsoft Exchange personal contacts store for the user. The contacts in the store are synchronized to the phone's Local Contacts cache using Identity Mapping. Identity Mapping is performed based on the contact's enterprise phone number in canonical format, without short dial strings, delimiters, or + sign. The enterprise phone number is mapped to the primary phone number field of a contact record on the phone.
    - LDAP search of an enterprise directory through a browser
- The phone uses UPM or PPM as a contact store for:
  - The Local Contacts in the phone. The phone performs bi-directional synchronization between its Local Contacts cache and the contact store.
  - The Buddy lists for all users
- Presence tracking is managed by the Aura™ Presence Server (PS). PS is responsible for:
  - Generating IM handles for Presentities

- Notifying the watchers of IM handles about status changes.
  - Enforcing Access Control Lists (ACL), which can block specific users from being watchers of others' statuses.
- SM routes SIP messages that provide the channel for transmitting Presence tracking information. The following Presence information is transmitted:
  - Subscription for a given Buddy list (from the phone to PS through SM)
  - Publication of own Presence status (from the phone to PS through SM)
  - Notification of Presence state changes for a Buddy (PS to all approved watchers through SM)