



Simplified Converged Address Book Requirements

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1. Scope

(Informative)

This document defines the requirements for the Simplified Converged Address Book (S-CAB) Enabler V1.0 and deferred requirements that can be used as base for subsequent release S-CAB. The S-CAB V1.0 Enabler covers all CAB 1.0 requirements.

2. References

2.1 Normative References

[RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997,
[URL:http://www.ietf.org/rfc/rfc2119.txt](http://www.ietf.org/rfc/rfc2119.txt)

2.2 Informative References

[CAB 1.0 RD] OMA Converged Address Book Requirements Description , Version 1.0, Open Mobile Alliance™,
[URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)

[CAB] OMA Converged Address Book, Version 1.0, Open Mobile Alliance™, URL:<http://www.openmobilealliance.org>

[OMADICT] “Dictionary for OMA Specifications”, Version 2.6, Open Mobile Alliance™,
OMA-ORG-Dictionary-V2_6, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

Any explicit reference to “CAB User” and “CAB Enabler” in S-CAB RD (i.e. this document) is clearly identified as such.

The following definitions have been inherited from the [CAB 1.0 RD] and adapted to the S-CAB Enabler and terminology.

Authorized Principal	See [OMADICT]
Contact Entry	The information (e.g. name, address, presence subscription information, display name) associated with a contact [CAB 1.0 RD]. The definition applies identically to S-CAB Users.
Contact Share	The action to provide contact information from the Simplified Converged Address Book or the own Simplified Personal Contact Card to other users, without it being the result of a Contact Subscription.
Contact Subscription	Means by which an S-CAB User can request to receive automatic updates of another S-CAB and/or CAB User’s available Personal Contact Card information, respectively Simplified Personal Contact Card information.
Contact View	A named subset of the Simplified Personal Contact Card of the S-CAB User to be made available to other users.
Converged Address Book	A set of Contact Entries stored by a CAB User and commonly available to any of the CAB User’s registered clients [CAB 1.0 RD]. The definition applies identically to S-CAB Users.
Legacy Formats	Existing standard data formats that are widely used in the industry to store and exchange contact information. Examples include vCard and hCard [CAB 1.0 RD].
Privacy Preferences	See RFC4745, “Common Policy: A Document Format for Expressing Privacy Preferences”, H. Schulzrinne, February 2007, URL: http://www.ietf.org/rfc/rfc4745.txt .
Published Contact Card	A subset of the Simplified Personal Contact Card, as defined by Contact Views, that is made available to other CAB users (via a Contact Subscription, etc) in the CAB environment. Note: CAB environment includes S-CAB Enabler and CAB 1.0.
Service	See [OMADICT].
Personal Contact Card	See [CAB 1.0 RD].

The followings are newly identified as S-CAB Enabler V1.0’s definitions:

Common Connections	A contact that is present in both S-CAB User’s address book and his/her contact’s address book, or another S-CAB User that is subscribed to both the S-CAB User and his/her contact.
Communication History	A set of information containing an aggregated log of various communications of the S-CAB User. (e.g. incoming or outgoing call/SMS/MMS, missed calls). The information consists of metadata related to the communication such as contact, timestamp, and source/service.
External Profile	Collection of user’s personal information from an external non-CAB system.
Favourite Contact	A contact labelled to identify preference based on interest (e.g., communication frequency, relationship, importance).
Simplified Address Book	A set of Contact Entries stored by a S-CAB User and commonly available to any of the S-CAB User’s registered clients.
S-CAB User	A user of a service that conforms to the S-CAB Enabler.

Simplified Personal Contact Card	Personal contact information that an S-CAB User defines and publishes about themselves, their organizations and their groups. The data model is entirely based on the Personal Contact Card [CAB 1.0 RD].
Social Activity	The user activity information associated with S-CAB User's social interactions (e.g. posting a photo, joining a group, start following a user, posting comments, etc.) from/to social network services
Usage Information	The information associated with S-CAB User's communication usage (e.g. duration of call, time of call, frequently called users)

3.3 Abbreviations

3GPP	3 rd Generation Partnership Project
3GPP2	Third Generation Partnership Project 2
AB	Address Book
IETF	Internet Engineering Task Force
IP	Internet Protocol
PCC	Personal Contact Card
S-AB	Simplified Address Book
S-CAB	Simplified Converged Address Book
SIP	Session Initiation Protocol
SMS	Short Message Service [CAB 1.0 RD]
S-PCC	Simplified Personal Contact Card
TISPAN	Telecommunications and Internet Converged Services and Protocols for Advanced Networking
URI	Uniform Resource Identifier
URL	Uniform Resource Locator

4. Introduction

(Informative)

As telecommunications are evolving towards all-IP based networks, many innovative and flexible services emerge to facilitate peer-to-peer and community communications, most using an address book as a launch pad for these services. Users are dealing with many address books (such as device-resident, SIM-resident, service-dependent and ISP-offered) that cause difficult and inconsistent user experiences. In order to support the new communication paradigms and improve the user experience a single address book environment is required.

The Simplified Converged Address Book (S-CAB) Enabler provides consistent mechanisms to manage contact information in both user facing applications as well as in support of network facing activities. At the core of this enabler is a network-based contact repository which a user can use to store contact information which can be retrieved by any S-CAB-enabled device. The network-based repository is also able to provide specific contact information to other users and to keep them up-to-date whenever the data is updated.

The S-CAB Enabler is expected to provide synchronization of the contact information available in the user device(s) with the network-based contact repository. It is possible that the limits of storage available on some devices is such that it can not store the whole set of information and it may need to limit either the total number of records or the number of attributes retained per record. The ability to support such limits shows the flexibility S-CAB Enabler is expected to provide in letting a user manage the contact information collected on the device(s).

The S-CAB Enabler is also managing the distribution of user's own contact information. In essence, a user fills out a Simplified Personal Contact Card which includes all the information a user wishes to store about him or herself. Using Contact Views, defined by either the S-CAB User or the service provider, the S-CAB is able to provide different subsets of this information to other users requesting such contact information. Through a Publish/Subscribe paradigm, such information can be provided to other users and when there is any effective change, those other users will be able to receive the updated data. An example of Contact Views usage within the Simplified Personal Contact Card is presented in Figure 1.

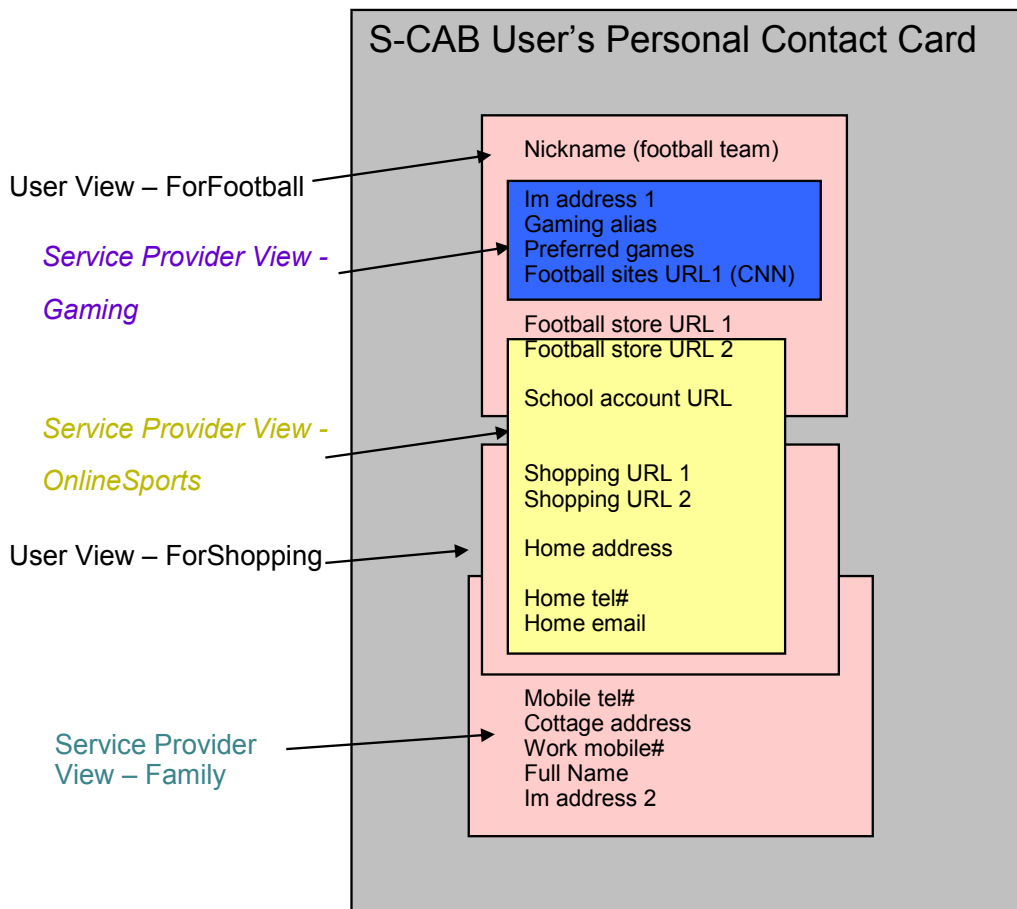


Figure 1: Example of Contact Views in the S-CAB User's Simplified Personal Contact Card

Since systems that are supporting the S-CAB Enabler are likely supporting multiple users, the S-CAB Enabler also defines a search paradigm which permits other users to query such a system to locate information about the available users. The information a user wishes to provide in response to such searches can be limited by using a specific Contact View which has a limited set of attributes or they can opt out entirely and not permit their data to be made available to a general search operation.

As the S-CAB Enabler is expected to support many different types of information it is expected to require a data model that is flexible and extensible. It will be expected to accommodate the traditional types of contact information (e.g. name, address, email, phone number, mobile number, etc.) as well as new types of information (e.g. websites, blogs, presence subscription references, etc.). Such a data model should not preclude support for existing or legacy data formats (e.g. vCard) as a means to exchange data with users not yet served by S-CAB. Several forms of data availability is being called for with data being shared with other users as well as with data being formatted in a legacy format and usable in a variety of non-S-CAB-specific exchange activities.

The S-CAB Enabler, being defined in support of mobile applications, is expected to be designed and developed with efficiency of resources and protection of user privacy as major considerations. In addition, service provider operational needs and user preferences are general principles which should be applied across the enabler whether specifically called out in individual requirements or not.

The environment that the S-CAB Enabler establishes is expected to be used to enrich the user's experience by the effective use of the data that it makes available to other applications and services. For example, much of the information for a contact will be used to enhance the user's communication experience. This could be by either permitting easy establishment of a communication action or by permitting subscription to presence or capability information. In general, the use of the contact information is out-of-scope of the S-CAB Enabler and it is up to the other applications and services to perform any needed actions.

Similarly, certain implementation aspects of the S-CAB Enabler are not covered in these requirements. In particular, support for multiple, concurrent S-CAB subscriptions in support of different service domains (e.g. personal, corporate) is a possible service model. Whether it is implemented as unified or independent address book(s) is not specifically covered by the S-CAB Enabler as it is expected that various approaches could be deployed based upon the tools that the S-CAB Enabler does provide.

The S-CAB Enabler will re-use as appropriate (e.g. through reference) relevant parts of the associated supporting specifications from OMA, 3GPP, 3GPP2, IETF, TISPAN, etc.

4.1 Version 1.0

The S-CAB Enabler V1.0 provides support for the following functionality:

- Support for a network repository of contact information (i.e. address book). The S-CAB User device will be able to synchronize with this data.
- The S-CAB enabled device, on behalf of the user, will be able to manage the S-CAB Simplified Personal Contact Card and Contact View data objects which will be stored on the network component and permit it to support access and search operations.
- Definition of XML data formats for S-CAB Address Book and Personal Contact information.
- For network-side operations, the subscription activity (through Contact Subscription) is supported which will provide data exchange of the contact information and notifications of change.
- The Legacy Formats supported in S-CAB V1.0 are vCard 2.1 and vCard 3.0. S-CAB Enabler V1.0 also support mapping to Legacy Format to permit exchange of data between S-CAB and non-S-CAB systems.
- Support for importing and synchronization data with non-S-CAB Systems based on requests from the CAB User, but it does not define any interface for the interaction with external non-S-CAB systems for import.
- Support for sharing CAB User's contact information (i.e. PCC and/or Address Book) data to other Users (i.e. CAB and non-CAB Users).
- Mechanism to allow a S-CAB User to invite other S-CAB Users to subscribe to his/her S-PCC
- Retrieval of previously removed contact information from the device
- Import/Synchronize user's personal information
- Updates from import, synchronization with external non-S-CAB systems and other received contact information through Contact Share and Contact Subscription may be applied automatically, or based on user confirmation, subject to user preferences
- Support Communication History from devices into the network.

Support for integration with social networking features.

4.2 Future Version

The following S-CAB features are envisaged for S-CAB future version:

- mapping and conveying of the S-CAB contact information to Legacy Formats other than vCard.
- prevention of unauthorized access to a S-CAB User's related information stored on their reported stolen or lost mobile device
- definition of a set of charging events usable in various business models).
- Support of Favorite Contacts.

5. Requirements (Normative)

S-CAB requirements are based on [CAB 1.0 RD] requirements, and requirements identified in Section 5 of [CAB 1.0 RD] as per CAB V1.0 (in the “Enabler Release” column) apply to S-CAB with the clarifications reported in Section 3.2. Additional requirements with respect to CAB 1.0 RD are labeled with an S-CAB requirement number and with the S-CAB 1.0 release.

5.1 High-Level Functional Requirements

Label	Description	Enabler Release	Equivalent requirement
S-CAB-HLF-001	The S-CAB Enabler SHALL provide a network based address book for the CAB User.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-002	The S-CAB Enabler SHALL define Contact Entry and Simplified Personal Contact Card which include contact information such as: <ul style="list-style-type: none"> • Full name (e.g. title, first, middle, last and suffix) • Display name: An optional descriptive name suggested by the user to identify him/herself (e.g. nickname) • Addressing identifiers (e.g. CPM Address [CPM], instant messaging address, email address, phone number, SIP address, presence subscription address, gaming user identifier...) • Basic personal data (e.g. birth date, description, gender, height, home address) • Extended personal data (e.g. areas of expertise, avatars data, hobbies, interests, photo or video data, title) • Web resources (e.g. homepage URL, weblog URL, publications URL) Organisational data (e.g. business category, department name, job title, alternative contact or agent)	S-CAB V1.0	CAB V1.0
S-CAB-HLF-003	The S-CAB Enabler SHALL support list resources (i.e. list URI) in the Converged Address Book.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-004	The S- CAB Enabler SHALL allow the CAB User to manage (e.g. add/change/delete) Contact Entries in his/her Converged Address Book.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-005	The S-CAB Enabler SHALL be able to notify a S-CAB User and/or a CAB User (e.g. User A) when another S- CAB User (e.g. User B) added him/her (A) to his/her (B) contacts , based on S-CAB User preferences (A and B) and service provider policy.	S-CAB V1.0	Future release in CAB V1.0
S-CAB-HLF-006	The S-CAB Enabler SHALL, according to the S-CAB User’s preferences and/or service provider’s policy, be able to either automatically or by request keep up-to-date all information of the address books of all the S-CAB-enabled registered devices of a S-CAB User.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-007	The S-CAB Enabler SHALL allow a S-CAB User to retrieve from the network contact information that was previously removed from the device.	S-CAB V1.0	Future release in CAB V1.0
S-CAB-HLF-008	The S-CAB Enabler SHALL allow a S-CAB User to restore the last performed operation (e.g. restore the last REPLACE operation)	S-CAB V1.0	

S-CAB-HLF-009	The S-CAB Enabler SHALL be able to maintain S-CAB User's Favourite Contact information per device or keep it up to date between the S-CAB user's multiple devices, based on S-CAB User's preference and service provider policy.	Future release	
S-CAB-HLF-010	The S-CAB Enabler SHALL be able to automatically and by request keep up-to-date all the Communication History and Usage Information from S-CAB User's devices, subject to user preferences and service provider policies.	S-CAB V1.0	
S-CAB-HLF-011	For existing contacts, the S-CAB Enabler SHALL associate the data from the Communication History with a Contact to indicate recent activity data with each Contact.	S-CAB V1.0	
S-CAB-HLF-012	The S-CAB Enabler SHALL support a mechanism for the S-CAB User to manage access and modification rights to all or a subset of the contact information stored in his/her Simplified Converged Address Book and/or Simplified Personal Contact Card to an Authorized Principal.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-013	The S-CAB Enabler SHALL provide a Network-to-Network notification when S-CAB User B adds another S-CAB User or CAB User A into his/her Address Book (i.e. of the S-CAB User B). Such notification is in accordance with S-CAB User Preferences and Service Provider policies.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-014	The S-CAB Enabler SHALL be able to notify a S-CAB User (e.g. User A) when one of his/her contacts becomes a S-CAB or a CAB User (e.g. User B), based on S-CAB User preferences (Users A and B) and service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-015	The S-CAB Enabler SHALL allow a S-CAB User to manage (e.g. modify, delete, access, keep up to date) a local subset of the Simplified Converged Address Book (which is resident in the network) on a registered device.	S-CAB V1.0	Future release in CAB V1.0
S-CAB-HLF-016	The S-CAB Enabler SHALL permit a Contact Entry to appear in any number of named lists.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-017	The S-CAB Enabler SHALL be able to provide a S-CAB User with CAB status information (e.g. S-CAB, CAB or legacy contact, pending authorisation, corresponding S-CAB or CAB provider, source of contact data, ...) of each of his/her contacts, based on contact's preference and service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-HLF-018	The S-CAB Enabler SHALL expose to other Enablers (e.g. Messaging enabler, CPM Enabler) an interface to obtain S-CAB information related to S-CAB User's contacts, subject to user authorization and/or service provider policies.	CAB APIs V1.0 S-CAB API	CAB V1.0
S-CAB-HLF-019	The S-CAB Enabler SHALL support named lists of Contact Entries which can be accessed and managed (i.e. create/update/delete) by Authorized Principals.	S-CAB V1.0	CAB V1.0

Table 1: High-Level Functional Requirements

5.1.1 Security

Label	Description	Enabler Release	Equivalent requirement
S-CAB-SEC-001	The S-CAB Enabler SHALL use a secure environment for use in the exchange of data between the user device and the network elements of the CAB system.	S-CAB V1.0	CAB V1.0
S-CAB-SEC-002	The S-CAB Enabler SHALL use a secure environment for use in exchange of data between CAB systems (e.g. between service providers).	S-CAB V1.0	CAB V1.0

Table 2: High-Level Functional Requirements – Security Items

5.1.1.1 Authentication

Label	Description	Enabler Release	Equivalent requirement
S-CAB-AUC-001	The S-CAB Enabler SHALL support a Principal to be authenticated by the CAB service provider domain.	S-CAB V1.0	CAB V1.0
S-CAB-AUC-002	The S-CAB Enabler SHALL support a Principal to authenticate the CAB service provider domain.	S-CAB V1.0	CAB V1.0
S-CAB-AUC-003	The S-CAB Enabler MAY leverage the authentication capabilities of the underlying IP network to authenticate a Principal.	S-CAB V1.0	CAB V1.0
S-CAB-AUC-004	The S-CAB Enabler MAY leverage the authentication capabilities of the underlying IP network to allow a Principal to authenticate the service provider domain.	S-CAB V1.0	CAB V1.0

Table 3: High-Level Functional Requirements – Authentication Items

5.1.1.2 Authorization

Label	Description	Enabler Release	Equivalent requirement
S-CAB-AUT-001	The S-CAB Enabler MAY support a means to prevent unauthorized access to a S-CAB User's related information stored on his/her reported stolen or lost mobile device.	Future Release	Future Release in CAB V1.0
S-CAB-AUT-002	The S-CAB Enabler SHALL prevent unauthorized access to S-CAB User's related information stored in the network.	S-CAB V1.0	CAB V1.0
S-CAB-AUT-003	The S-CAB Enabler SHALL allow the S-CAB User to manage authorisation rules that allow others to obtain information from the Simplified Published Contact Card (e.g. to satisfy Contact Subscriptions, contact searches).	S-CAB V1.0	CAB V1.0
S-CAB-AUT-004	The S-CAB Enabler SHALL allow the S-CAB User to manage default authorization rule to be applied to any users that are not explicitly identified within the authorization rules.	S-CAB V1.0	CAB V1.0

Table 4: High-Level Functional Requirements – Authorization Items

5.1.1.3 Data Integrity

Label	Description	Enabler Release	Equivalent requirement
S-CAB-INT-001	The S-CAB Enabler SHALL ensure data integrity of the CAB data within the CAB environment.	S-CAB V1.0	CAB V1.0

Table 5: High-Level Functional Requirements – Data Integrity Items

5.1.2 Charging

Label	Description	Enabler Release	Equivalent requirement
S-CAB-CHRG-001	The S-CAB Enabler MAY define a set of charging events usable in various business models.	Future Release	Future Release in CAB V1.0

Table 6: High-Level Functional Requirements – Charging Items

5.1.3 Administration and Configuration

Label	Description	Enabler Release	Equivalent requirement
S-CAB-CFG-001	The S-CAB Enabler SHALL define S-CAB specific configuration support to permit remote configuration activities of user devices.	S-CAB V1.0	CAB V1.0

Table 7: High-Level Functional Requirements – Administration and Configuration Items

5.1.4 Interoperability

Label	Description	Enabler Release	Equivalent requirement
S-CAB-IOT-001	The S-CAB Enabler SHALL support interoperability with CAB 1.0 Enabler to ensure inter-domain compatibility with features defined in CAB 1.0, i.e. cross domain aspects for the following features: 1) Contact Subscription 2) Contact Share 3) Contact Search and 4) Contact Added.	S-CAB V1.0	
S-CAB-IOT-002	The S-CAB Enabler SHALL support interoperation between service providers.	S-CAB V1.0	CAB V1.0

Table 8: High-Level Functional Requirements – Interoperability Items

5.1.5 Lawful Interception

NOTE: The capability to intercept CAB telecommunications traffic and related information is always implemented in accordance with national or regional (e.g. European Union) laws or technical regulations applicable to the service provider. Nothing in these requirements, including the definitions, is intended to supplant such applicable laws or regulations.

Label	Description	Enabler Release	Equivalent requirement
S-CAB-LI-001	The S-CAB Enabler SHALL allow mechanisms to unobtrusively monitor and report any S-CAB activity associated with a S-CAB User when required by a lawful authority.	S-CAB V1.0	CAB V1.0
S-CAB-LI-002	The S-CAB Enabler SHALL support access of S-CAB data (Simplified Personal Contact Card, Contact Entries, etc.) when required by a lawful authority.	S-CAB V1.0	CAB V1.0
S-CAB-LI-003	When supporting a lawful interception request, the S-CAB Enabler SHALL be able to provide the available CAB information regardless of the privacy settings set by intercepted S-CAB Users on their S-CAB related information.	S-CAB V1.0	CAB V1.0

S-CAB-LI-004	Available and applicable underlying network (e.g. SIP/IP Core) capabilities SHOULD be used to support lawful interception requirements as much as possible (e.g. re-use of 3GPP/3GPP2 lawful interception in case of 3GPP/3GPP2 IMS and/or other national or regional technical specifications).	S-CAB V1.0	CAB V1.0
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Table 9: High-Level Functional Requirements – Lawful Interception Items

5.1.6 Presence

Label	Description	Enabler Release	Equivalent requirement
S-CAB-PRS-001	If Presence Information is available, the S-CAB Enabler SHALL be able to use that information to enhance the user experience.	DELETED	DELETED in CAB V1.0
S-CAB-PRS-002	If Presence Information is available, S-CAB Enabler SHALL use it to publish and distribute S-CAB capability of S-CAB Users.	S-CAB V1.0	No requirement exists in CAB V1.0, but the functionality exists.
S-CAB-PRS-003	If Presence Information is available, S-CAB Enabler SHALL use it to discover S-CAB or CAB 1.0 capabilities for the contacts of the S-CAB Users.	S-CAB V1.0	No requirement exists in CAB V1.0, but the functionality exists.

Table 10: High-Level Functional Requirements – Presence Items

5.2 Simplified Personal Contact Card Requirements

Label	Description	Enabler Release	Equivalent requirement
S-CAB-PCC-001	The S-CAB Enabler SHALL allow the S-CAB User to manage (e.g. add/change/delete) his/her Simplified Personal Contact Card information.	S-CAB V1.0	CAB V1.0
S-CAB-PCC-002	The S-CAB Enabler SHALL allow a S-CAB User to manage (e.g. create, delete, modify, name) Contact Views of his/her Simplified Personal Contact Card and select the fields that are associated with each Contact View.	S-CAB V1.0	CAB V1.0
S-CAB-PCC-003	The S-CAB Enabler SHALL allow a S-CAB User to associate specific fields in his/her Simplified Personal Contact Card to more than one Contact View.	S-CAB V1.0	CAB V1.0
S-CAB-PCC-004	The S-CAB Enabler SHALL permit a S-CAB User (e.g. User A) to select the Contact View(s) to be provided to a user (e.g. User B) requesting Simplified Personal Contact Card information. If multiple Contact Views are applied, user(B) shall be provided with a combined union set of fields associated with each Contact View of S-CAB User(A), subject to user (A)'s Privacy Preferences.	S-CAB V1.0	CAB V1.0
S-CAB-PCC-005	The S-CAB Enabler SHOULD allow the service provider to provide a set of Contact Views, each with their associated default set of fields, for use and personalization by each S-CAB User, subject to service provider policies.	S-CAB V1.0	CAB V1.0
S-CAB-PCC-006	The S-CAB Enabler SHALL produce contact information, for distribution to others, by including only fields from the Simplified Personal Contact Card that are selected in the associated Contact View with the user making the request.	S-CAB V1.0	CAB V1.0

S-CAB-PCC-007	The S-CAB Enabler SHALL utilize a CAB-common data format for providing Simplified Personal Contact Card information derived from a Contact View to requests generated from S-CAB Systems.	S-CAB V1.0	CAB V1.0
S-CAB-PCC-008	The S-CAB Enabler SHOULD provide a S-CAB User with the possibility to set the 'Display name' field with a different value per Contact View.	S-CAB V1.0	CAB V1.0

Table 11: Simplified Personal Contact Card Requirements

5.3 Contact Subscription Requirements

Label	Description	Enabler Release	Equivalent requirement
S-CAB-SUBS-001	The S-CAB Enabler SHALL support a mechanism by which other users obtain a Contact Subscription to the Published Contact Card information of S-CAB and CAB Users based on Service Provider policies.	S-CAB V1.0	CAB V1.0
S-CAB-SUBS-002	The S-CAB Enabler SHALL allow a S-CAB User to invite other S-CAB users to subscribe to his/her Published Contact Card information based on service provider's policy.	S-CAB V1.0	Future Release in CAB V1.0
S-CAB-SUBS-003	The S-CAB Enabler SHALL provide a means to notify a S-CAB User about a request for a Contact Subscription, based on user preferences and service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-SUBS-004	The S-CAB Enabler SHALL have the capability to generate notifications for active Contact Subscriptions to subscribing users, associated with Published Contact Card activity when any of the following occur: the value of an attribute in the Contact View changes, an attribute is added or removed from a Contact View or the S-CAB User's authorisation rules changes with regards to the subscribing user (e.g. change in the Contact View).	S-CAB V1.0	CAB V1.0
S-CAB-SUBS-005	The S-CAB Enabler SHALL provide notification to an authorized S-CAB and/or CAB User, when changes occur to Published Contact Card information for which the S-CAB or CAB User has a Contact Subscription, based on S-CAB User preferences and service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-SUBS-006	The S-CAB Enabler SHALL update the S-CAB User's address book with contact information from Contact Subscriptions, based on the S-CAB User preferences.	S-CAB V1.0	CAB V1.0
S-CAB-SUBS-007	The S-CAB Enabler SHALL be able to combine information from the Contact Subscriptions with the information that the S-CAB User customizes about the associated contacts.	S-CAB V1.0	CAB V1.0
S-CAB-SUBS-008	The S-CAB Enabler SHALL be able to manually or automatically accept or reject the Contact Subscription request to the Simplified Personal Contact Card on behalf of the S-CAB user based on user preferences.	S-CAB V1.0	
S-CAB-SUBS-009	The S-CAB Enabler SHALL, according to the S-CAB User's preferences and/or service provider's policy, be able to either automatically, or upon user confirmation, apply update notification information to the S-PCC, and in accordance to the requirements of this section.	S-CAB V1.0	

Table 12: Contact Subscription Requirements

5.4 Contact Search Requirements

Label	Description	Enabler Release	Equivalent requirement
S-CAB-SRCH-001	The S-CAB Enabler SHALL provide a mechanism to search for information from Simplified Personal Contact Cards, subject to S-CAB users authorization rules and service provider policies.	S-CAB V1.0	CAB V1.0
S-CAB-SRCH-002	The S-CAB Enabler SHALL support searches between different service provider domains on behalf of S-CAB Users, subject to S-CAB User authorization rules and service provider policies.	S-CAB V1.0	CAB V1.0
S-CAB-SRCH-003	The S-CAB Enabler SHALL support searching a service provider defined network directories (company directory, white page phone book or yellow page phone book etc.) based on service provider policies.	S-CAB V1.0	CAB V1.0
S-CAB-SRCH-004	The S-CAB Enabler SHALL provide a predictive search mechanism to match an incomplete contact information (e.g. substring of name, word(s) of address or variations of it) provided by an end-user based on the network directories information supported by service providers, subject to S-CAB user specified search criteria and service provider policies (e.g. domain name to search, max number of results). If matching gives more than one result, the end-user would be provided with a list of results.	S-CAB V1.0	CAB V1.0
S-CAB-SRCH-005	The S-CAB Enabler SHALL support a mechanism to allow a S-CAB User to include the search results into his/her S-CAB address book	Future Version	Future Release in CAB V1.0

Table 13: Contact Search Requirements

5.5 Contact Share Requirements

Label	Description	Enabler Release	Equivalent requirement
S-CAB-SHR-001	The S-CAB Enabler SHALL support a S-CAB User to Contact Share all or part of any Contact Entry in the S-CAB User's Converged Address Book, subject to the service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-SHR-002	The S-CAB Enabler SHALL allow the S-CAB User to Contact Share his/her Simplified Personal Contact Card information (either completely or partially), subject to the service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-SHR-003	The S-CAB Enabler SHALL be able to deliver within the CAB environment the information that is Contact Shared with other S-CAB or CAB Users	S-CAB V1.0	CAB V1.0
S-CAB-SHR-004	The S-CAB Enabler SHALL allow a S-CAB User to request and receive a delivery receipt from the intended recipient for a Contact Share operation, based on service provider policy. A Contact Share is determined to be successful when it is delivered to the intended recipient S-CAB or CAB Client or incorporated into his AB.	S-CAB V1.0	CAB V1.0

S-CAB-SHR-005	The S-CAB Enabler SHALL, according to the S-CAB User's preferences and/or service provider's policy, be able to either automatically or upon user confirmation apply contact shared information to the S-PCC or S-AB, and in accordance to the requirements of this section.	S-CAB V1.0	
S-CAB-SHR-006	The S-CAB Enabler SHALL allow a S-CAB User to establish preference rules (e.g. accept/confirm/reject) for the handling of received Contact Shared information, based on service provider policy.	S-CAB V1.0	CAB V1.0

Table 14: Sharing contact information Requirements

5.6 Interworking Requirements

Label	Description	Enabler Release	Equivalent requirement
S-CAB-IWG-001	The S-CAB Enabler SHALL allow a CAB User to import contact information via S-CAB standardized data structure and file type subject to service provider policy.	S-CAB V1.0	CAB V1.0
S-CAB-IWG-002	The S-CAB Enabler SHALL provide an interworking framework that provides the necessary mechanisms to exchange data with 3rd party address book systems.	CAB APIs	CAB V1.0
S-CAB-IWG-003	The S-CAB Enabler SHALL have the capability to convey contact information in vCard Legacy Format(s).	S-CAB V1.0	CAB V1.0
S-CAB-IWG-004	The S-CAB Enabler MAY have the capability to convey contact information in other than vCard Legacy Format(s).	Future Version	Future Release in CAB V1.0
S-CAB-IWG-005	The S-CAB Enabler SHALL allow a S-CAB User to request the import/export of S-PCC information from/to a 3 rd party systems	S-CAB V1.0	
S-CAB-IWG-006	The S-CAB Enabler SHALL allow a S-CAB User to request the subscription to changes in the user's External Profile at a 3 rd party systems to keep S-PCC up-to-date.	S-CAB V1.0	
S-CAB-IWG-007	The S-CAB Enabler SHALL update the S-CAB User's S-AB or S-PCC with contact information from import operations based on the S-CAB User preferences.	S-CAB V1.0	
S-CAB-IWG-008	The S-CAB Enabler SHALL update the S-CAB User's S-PCC with contact information from external user Profile synchronization based on the S-CAB User preferences.	S-CAB V1.0	
S-CAB-IWG-009	The S-CAB Enabler MAY support adaptation of public content per Contact (e.g. blogs, RSS feeds, news, social networks) in well-formed XML, to the S-CAB User, as populated by the service provider.	Future Release	
S-CAB-IWG-010	The S-CAB Enabler SHALL, according to the S-CAB User's preferences and/or service provider's policy, be able to either automatically or upon user confirmation, apply imported or externally synchronized information to S-PCC or S-AB, and in accordance to the requirements of this section.	S-CAB V1.0	

Table 15: Interworking Requirements

5.7 Social Network Requirements

Label	Description	Enabler Release
S-CAB-SN-001	The S-CAB Enabler SHALL allow a S-CAB User to update their existing contacts and/or the S-CAB User's own PCC with information retrieved from other social networks based upon S-CAB User preferences (e.g., notifications of status messages such as status line and other social indicators).	S-CAB V1.0
S-CAB-SN-002	The S-CAB Enabler SHALL allow a S-CAB User to receive suggestions of new contacts from S-CAB Enabler based upon user preferences. Note: the logic of generating suggestions is out of scope for S-CAB.	S-CAB V1.0
S-CAB-SN-009	The S-CAB Enabler MAY support XML document model namespaces in the S-AB and S-PCC documents to render blogs, RSS feeds, news, etc., of the contacts to the S-CAB User.	S-CAB V1.0
S-CAB-SN-003	The S-CAB Enabler SHALL provide mechanisms to describe relationships between S-CAB Users without requiring both parties to approve the relationship (e.g., an organization provisioning devices with established relationships among employees), subject to service provider policies.	Future Release
S-CAB-SN-004	The S-CAB Enabler SHALL allow a S-CAB User to describe his/her relationship (e.g., colleague, friend) with one of his/her contact in the Address Book and request this contact to certify this information, subject to the S-CAB User preferences.	Future Release
S-CAB-SN-005	The S-CAB Enabler SHALL allow a S-CAB User to view by request, the list of relationships of each of his/her Address Book contacts, as is made available to that S-CAB User, in accordance service provider policies.	Future Release
S-CAB-SN-006	The S-CAB Enabler SHALL allow a S-CAB User to automatically and by request keep up-to-date all the Social Activity from 3rd party social networks of himself/herself and of his/her contacts, based upon user preferences and service provider policies. Each Social Activity will be associated with its social networking source.	Future Release
S-CAB-SN-007	The S-CAB Enabler MAY allow a S-CAB User to receive relevant service suggestions, subject to S-CAB User's preference and service provider's policies.	Future Release
S-CAB-SN-008	The S-CAB Enabler MAY support the indication of Common Connections for each of the S-CAB User's contacts in his/her Address Book, subject to user preferences and service providers policy	Future Release
S-CAB-SN-010	The S-CAB Enabler SHALL allow a S-CAB User to automatically and by request keep up-to-date all the Social Activity (e.g. posting a photo, joining a group, start following a user, commenting) from 3rd party social networks of himself/herself and of his/her contacts, based upon user preferences and service provider policies. Each Social Activity will be associated with its social networking source.	Future Release

Table 16: Social Network Requirements

Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions: OMA-RD-S_CAB-V1_0	09 Feb 2011	Title, Sections 2 - 4, and Annexes	Baseline requirements for S-CAB based on CAB 1.0 RD On-line editing during Honolulu meeting to add ‘S’ added to “CAB” in sections two through four and annexes.
	11 Mar 2011	5.3 and 5.6	Incorporated Agreed CRs: OMA-COM-CAB-2011-0016R01- INP_SCAB_RD_Handling_of_Contact_Subscription OMA-COM-CAB-2011-0029-CR_SCAB_RD_-_PCC_Interworking Update of title date and page numbers of table of contents.
	08 Apr 2011	New 5.7	Incorporated Agreed CR: OMA-COM-CAB-2011-0048R01-CR_SCAB_RD_Social_Network Proposes the new requirements for the interaction with the social networks in the S-CAB 1.0.
	13 Apr 2011	5, 5.14	Incorporated Agreed CRs: OMA-COM-CAB-2011-0063R01 OMA-COM-CAB-2011-0062R02 Follow-up of OMA-COM-CAB-2011-0054. Please see OMA-COM-CAB-2011-0056-MINUTES_23Mar2011_CC for details.
	27 Apr 2011	5, 5.1.4, 5.7	Incorporated Agreed CRs: OMA-COM-CAB-2011-0063R01-CR_S_RD_AI012_AI013 RD requirements including online editing in Sorrento meetings OMA-COM-CAB-2011-0062R02-CR_RD_S_CAB_Interworking RD requirement for interworking including online editing in Sorrento meetings OMA-COM-CAB-2011-0106R02-CR_SCAB_RD_AI_016 RD requirements for social networks including online editing in Sorrento meetings.
	02 May 2011	5.3	Incorporated Agreed CR: OMA-COM-CAB-2011-0131-CR_S_CAB_RD_AI_020 This CR is for action item CAB-2011-020
	03 May 2011	5.3	Incorporated Agreed CR: OMA-COM-CAB-2011-0129-CR_S_RD_A024 Action Item CAB-2011-A024: Fix the mistake in CR16R01 into the S-CAB RD, to remove CAB v1.0 tagging (SUBS-008).
	04 May 2011	5.5	Incorporated Agreed CR: OMA-COM-CAB-2011-0135R01-CR_S_CAB_RD_AI_027 Action item CAB-2011-027This CR is for action item CAB-2011-020
	28 May 2011	Entire document	Incorporated Agreed CR: OMA-COM-CAB-2011-0140-CR_Referring_CAB_1.0_reqs_in_S_CAB Action item CAB-2011-A022 proposal to capture previous version requirements. Source: REQ Officers, CAB Chair, S-CAB RD Editor. Action item CAB-2011-027
	29 Aug, 2011	Various	Incorporated Agreed CRs: OMA-COM-CAB-2011-0150R02 OMA-COM-CAB-2011-0151R01 OMA-COM-CAB-2011-0153R01 OMA-COM-CAB-2011-0237 Tracking CAB 1.1 RD revisions
11 Jan 2012	2.2, 3.2, 3.3, 4.1, 4.2, 5.1, 5.3, 5.5, 5.6, 5.7, Various	Incorporated Agreed CRs: OMA-COM-CAB-2011-0100R01-CR_RD_S_CAB_edit_section_2.2_and_3.3.doc OMA-COM-CAB-2011-0260R01-CR_Consistency_S_CAB_RD_Section_4_1.doc OMA-COM-CAB-2011-0261-CR_Consistency_S_CAB_RD_Section_4_2.doc OMA-COM-CAB-2011-0262R01-CR_Consistency_S_CAB_RD_Section_5_1.doc OMA-COM-CAB-2011-0263-CR_Consistency_S_CAB_RD_Section_5_3.doc	

Document Identifier	Date	Sections	Description
			OMA-COM-CAB-2011-0264-CR_Consistency_S_CAB_RD_Section_5_5.doc OMA-COM-CAB-2011-0265-CR_Consistency_S_CAB_RD_Section_5_6.doc OMA-COM-CAB-2011-0266R01-CR_Consistency_S_CAB_RD_Section_5_7.doc OMA-COM-CAB-2011-0285R01-CR_AI59.doc OMA-COM-CAB-2011-0286R01-CR_AI60.doc OMA-COM-S-CAB-2011-0033R01-CR_AI066.doc OMA-COM-S-CAB-2011-0014-CR_Adding_Definitions.doc OMA-COM-S-CAB-2011-0012R01-CR_RD_AI59.doc Tracking CAB 1.1 RD revisions
	21 Feb 2012	2.2, 3.2, 3.3, 4.1, 4.2, 5.1, 5.3, 5.5, 5.6, 5.7, other edits apply to entire document.	Incorporated Agreed CRs: OMA-COM-S-CAB-2012-0033-CR_Comm_history OMA-COM-S-CAB-2012-0031-CR_AI_2012_A001 CAB 1.0 reqs added to entire document Correct "V1.0" tags to have identical formatting OMA-COM-S-CAB-2012-0034-CR_Reviewed_RD_Informal_Rev Correction to rev history: OMA-COM-S-CAB-2012-0029-CR_revamping_revision RD group review (walk-through in Barcelona mtg)
	03 Apr 2012	5.1.1.3, 5.2 All	Editorial fixes Editorial bug fixes : - missing Enabler release in 5.2 req S-CAB-PCC-008 and leftover "CAB v1.0" in the Enabler release column in sect. 5.1.1.3 req. S-CAB-INT-001
	10 Apr 2012	All	Editorial fixes: 2012 template header/footer 2012 copyright Tables alignment Definitions sorted History Table
	24 Apr 2012	All	Incorporated CR (REQ Informal Review resolution): OMA-COM-S-CAB-2012-0070-CR_RD_Inf_Review_resolution.doc
	24 July 2012	All	Incorporated CR: OMA-COM-S-CAB-2012-0157R01-CR_RD_left_CONRR_cmts.doc
Candidate Versions: OMA-RD-S_CAB-V1_0	04 Sep 2012	All	Status changed to Candidate by TP: OMA-TP-2012-0326-INP_SCAB_V1_0_ERP_for_Candidate_Approval

Appendix B. Use Cases (Informative)

The following uses cases provide a high view of some of the functionality that the S-CAB Enabler is intended to support. The descriptions do not provide sufficient detail to fully capture the operational expectations, much less the alternative uses or various error conditions that might be experienced.

B.1 Device Updates from Changes to Network Contact Info

This use case covers the situation where updating of entries in the network-based address book storage is propagated to the other devices associated with the S-CAB User.

B.1.1 Short Description

The S-CAB User, using one of his devices, updates an entry in his address book. As the data on his device and the information in the network are synchronized, this change is propagated and becomes the 'current' data in the network-based storage. The change is now needed to be reflected on all devices associated with the S-CAB User.

For devices that are currently active, the change can be sent as part of its synchronization activity. For devices that are not active, they will need to be updated when they become available. Thus the network-based system must 'remember' which devices need the update, this is also considered part of the synchronization functionality.

B.1.2 Market Benefits

Users subscribing to S-CAB have their data synchronized with the network-based storage, freeing them from the task of updating each device individually. This feature is also performed when the data is revised from other sources (e.g. from Contact Subscriptions to other user's data) which permits the user to develop confidence that they have the latest data on whichever device they may be using.

B.2 Managing the Simplified Personal Contact Card

This use case presents the Simplified Personal Contact Card and what users would typically use it for.

B.2.1 Short Description

The S-CAB User has populated their Simplified Personal Contact Card with all of their relevant contact information. Should that user subscribe to a new service (e.g. a new messaging service utilizing a new address) they would then edit their Simplified Personal Contact Card by using one of their devices and entering the appropriate edit mode. They would add the new addressing information they received as part of their new service. When they save this new data, it would be propagated to the network based storage system which would then update all of the S-CAB User's devices associated with the S-CAB service.

Thus, if the S-CAB User were to subsequently review their Simplified Personal Contact Card data on one of their other devices, they would see that it had been updated and would show the information for the new service. The view of the data in the Simplified Personal Contact Card would be complete and consistent whether or not a specific device could support any of the services described or not.

B.2.2 Market Benefits

Users subscribing to S-CAB would have a singular master set of data about themselves constituted in the Simplified Personal Contact Card which could be updated from any of their devices. They can thus rely on the S-CAB system to provide the most up-to-date data to people interested in their contact information and need not worry about older versions sitting on their devices.

B.3 Publish/Subscription of Contact Information

This use case describes how Contact Views will be used to set the information that a S-CAB User publishes which impacts the users subscribing to the data.

B.3.1 Short Description

The S-CAB User can establish a set of Contact Views which permit them to have different subsets of information from their Simplified Personal Contact Card to be available to other users. The Contact Views are stored by the network-based storage system which permits it to provide the correct attributes to be published to users retrieving data about the S-CAB User.

An attempt by another user to subscribe to the S-CAB User's data may lead to the S-CAB User getting an alert which asks whether the requesting user is to be permitted to have access to their data, and if so, which view. The S-CAB User may assign the requestor to a specific or default Contact View. The S-CAB system will remember this assignment so that it can make sure the requesting user gets the correct data.

At some later point in time, a change to an attribute in the Simplified Personal Contact Card is made. The S-CAB system will determine which Contact Views are affected and for all users subscribed to these Contact Views, they will, through the subscription process, get the updated data.

B.3.2 Market Benefits

S-CAB Users will be able to manage the data which other users get about them. In addition, the S-CAB system will also provide a consistent approach to propagating changes to their data to the other users who have subscribed to the updates. Users will be freed from manual update activities for those contacts that have subscribed to their information.

B.4 Sharing Contact Information

This use case covers the case where S-CAB Users share information about other contacts.

B.4.1 Short Description

A S-CAB User is able to send contact information about a third party to another S-CAB User. The source S-CAB User is able to forward the contact information from their address book to the receiving S-CAB User who can store it in their contact information.

While the contact information is available to the receiving S-CAB User, the sharing operation does not itself establish any kind of subscription action from the actual contact or the source S-CAB User. In addition, the data that may be provided may be out-of-date as it provides no specific data from the contact directly.

B.4.2 Market Benefits

The sharing operation permits S-CAB Users to forward information about other users to each other. From this they can communicate using the information or seek a subscription in which case the data would be kept current.

B.5 Importation of Contact Information from other Systems

This use case presents the case where information from other address book sources can be imported into the S-CAB system.

B.5.1 Short Description

A S-CAB User also has contact information in non-S-CAB repositories. They wish to get that data into their S-CAB system so they can get the benefits of multi-device updates. They thus retrieve the data in a bulk format (e.g. data file or spreadsheet) which they then process to permit it to be read by their S-CAB service. The S-CAB system reads the data and imports the set of contacts provided.

In cases where data in specific fields match data the S-CAB User already has in their S-CAB address book, the user is able to merge or delete elements to avoid multiple repetitive records in their S-CAB data.

B.5.2 Market Benefits

By importing the data from older address book storage systems, the S-CAB User is able to have all their contact information in their S-CAB system which may permit the user to drop the use of the older contact storage system. In any case, the S-CAB User will have a unified set of data available for use by applications that can access their S-CAB contact information.