WV-055 SSP – Server-Server Protocol Static Conformance Requirement

Version 1.2

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Open Mobile Alliance
OMA-IMPS-WV-SSP_SCR-v1_2-20030221-C

Continues the Technical Activities
Originated in the Wireless Village Initiative

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Contents

1. Scope

The Wireless Village Instant Messaging and Presence Service (IMPS) includes four primary features:

- Presence
- Instant Messaging
- Groups
- Shared Content

Presence is the key enabling technology for IMPS. It includes client device availability (my phone is on/off, in a call), user status (available, unavailable, in a meeting), location, client device capabilities (voice, text, GPRS, multimedia) and searchable personal statuses such as mood (happy, angry) and hobbies (football, fishing, computing, dancing). Since presence information is personal, it is only made available according to the user's wishes - access control features put the control of the user presence information in the users' hands.

Instant Messaging (IM) is a familiar concept in both the mobile and desktop worlds. Desktop IM clients, two-way SMS and two-way paging are all forms of Instant Messaging. Wireless Village IM will enable interoperable mobile IM in concert with other innovative features to provide an enhanced user experience.

Groups or chat are a fun and familiar concept on the Internet. Both operators and end-users are able to create and manage groups. Users can invite their friends and family to chat in group discussions. Operators can build common interest groups where end-users can meet each other online.

Shared Content allows users and operators to setup their own storage area where they can post pictures, music and other multimedia content while enabling the sharing with other individuals and groups in an IM or chat session.

These features, taken in part or as a whole, provide the basis for innovative new services that build upon a common interoperable framework.

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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

None

3.3 Abbreviations

WAP	Wireless Application Protocol
SAP	Service Access Point
CMSE	Common IMPS Features
IMSE	Instant Messaging Service Element
PRSE	Presence Service Element
GRSE	Group Service Element
SCR	Static Conformance Requirement
CSP	Client Server Protocol
SSP	Server Server Protocol
C-Req	Client Requirement
S-Req	Server Requirement

4. Introduction

This document specifies the static conformance requirements (SCR) for the Server-Server Protocol.

5. Wireless Village SSP Service Feature requirement

Req#	Description	S-Req	Reference
SERV-1	Support the Service Access Point Features	M	SAP
SERV-2	Support the Common IMPS Features	O	CMSE
SERV-3	Support the Instant Messaging Features	O	IMSE
SERV-4	Support the Presence Service Features	O	PRSE
SERV-5	Support the Group Service Features	O	GRSE

6. XML Encoding requirement

Req#	Description	S-Req	Reference
XML-1	XML encoding is well-formed	M	[XML]
XML-2	XML encoding follows the DTD	M	[SSP Syntax]
XML-3	XML encoding tolerates protocol extension	M	[SSP Syntax]
XML-4	The namespace identifier is "http:// www.openmobilealliance.org /DTD/WV-SSP1.2"	M	[SSP Syntax]

7. Addressing requirement

Req#	Description	S-Req	Reference
ADDR-1	Support the conversion from local address of the object(s) to global address when service is relayed.	M	[SSP]
ADDR-2	Support the conversion from local address of the own users into global address when service is relayed	M	[SSP]

8. Data Type requirement

Req#	Description	S-Req	Reference
DATA-1	Support “Char” data type	M	[SSP]
DATA-2	Support “Integer” data type	M	[SSP]
DATA-3	Support “String” data type	M	[SSP]
DATA-4	Support “Boolean” data type	M	[SSP]
DATA-5	Support “DateTime” data type	M	[SSP]
DATA-6	Support “Enum” data types with user-defined value sets	M	[SSP]
DATA-7	Support “Structure” data types with user-defined combination of other data types	M	[SSP]

9. Infrastructure requirement

Req#	Description	S-Req	Reference
INFR-1	Support the “Host-ID” address resolution	M	[SSP]

10. Session Management requirement

Req#	Description	S-Req	Reference
SESSION-1	Support session pair between two domains.	M	[SSP]
SESSION-2	Support redirect connection pairs of the same session	O	[SSP]
SESSION-3	The Session-ID is unique for each session in the provider server	M	[SSP]
SESSION-4	The Session-ID is kept the same within the session	M	[SSP]
SESSION-5	The provider server should not terminate the session within the agreed KeepAliveTime unless exception happens.	M	[SSP]
SESSION-6	The requestor server shall maintain session within the agreed KeepAliveTime	M	[SSP]
SESSION-7	The provider server shall terminate the session if the agreed KeepAliveTime expires without any transaction activity.	M	[SSP]
SESSION-8	If one session is terminated, the other one shall be terminated too.	M	[SSP]
SESSION-9	If the session pair is terminated, the connection pairs shall be terminated.	M	[SSP]
SESSION-10	If all connection pairs are terminated, the session pair shall be terminated.	M	[SSP]
SESSION-11	If TimeToLive is requested in the LoginRequest during session / additional connection establishment, the provider server's LoginResponse must include KeepAliveTime.	M	[SSP]

11. Transaction Management requirement

Req#	Description	S-Req	Reference
TRANS-1	Support one-way transaction	M	[SSP]
TRANS-2	Support two-way transaction	M	[SSP]
TRANS-3	Support multiple-way transaction	M	[SSP]
TRANS-4	Support asynchronous transactions	M	[SSP]
TRANS-5	For a request primitive, the TransactionMode element must be 'Request'.	M	[SSP]
TRANS-6	For a response primitive, the TransactionMode element must be 'Response'.	M	[SSP]
TRANS-7	The Transaction-ID is assigned by the transaction originator	M	[SSP]
TRANS-8	The Transaction-ID is unique within a session for each transaction originated from the same server that initiates the transaction	M	[SSP]
TRANS-9	The Transaction-ID is kept the same within a transaction	M	[SSP]
TRANS-10	Support General Error Handling Policy – If any error occurs in the processing party while processing a transaction, it shall respond to the other party with a Status primitive instead of expected response primitive.	M	[SSP]
TRANS-11	Support transaction validity time.	M	[SSP]
TRANS-12	Support transaction repeat time.	M	[SSP]
TRANS-13	Support error handling for invalid transaction	M	[SSP]
TRANS-14	Support "Unknown transaction Frequency"	M	[SSP]
TRANS-15	Support error handling for unknown transaction	M	[SSP]
TRANS-16	All mandatory information elements are present in the primitives.	M	[SSP]
TRANS-17	All conditional information elements are present or absent according to the relevant SCR.	M	[SSP]

12. Service Access Point Features requirement

12.1 Functional requirements

Req#	Description	S-Req	Reference
SAP-1	Support service relay between the Home Domains through direct SSP connection(s)	M	[SSP]
SAP-2	Support service relay between the Home Domain and its complementary service	O	[SSP]
SAP-3	Support service relay – every message is sent directly to that Home Domain, which is addressed by the network entity (user, group, contactlist) in the request (message).	M	[SSP]
SAP-4	Support service relay - routing for SAP-1 : every message is sent directly to that Home Domain, which is addressed by the network entity (user, group, contactlist) in the request (message).	M	[SSP]
SAP-5	Support service relay – routing for the SAP-2	O	[SSP]
SAP-6	If the group or presence service is complementary service, the Home Domain forwards the message to its complementary service in spite of the fact, that the network entity identifier (group-ID or ContactList-ID) addressed may contain another Domain part, than the Service-ID of the complementary service itself.	M	[SSP]
SAP-7	In minimal interoperability case, the Invite, CancelInvite, SendMessage and ForwardMessage transactions sent to screen name, distributed by the group owner Domain, are accepted by the recipient Domains in spite of the fact, that it was initiated by an other Domain's user (indicated in the Meta Information element.	M	[SSP]
SAP-8	Support the conversion from local object to global object(s) when service is relayed	M	[SSP]
SAP-9	Support Meta-Information primitive	M	[SSP]
SAP-10	Support Status primitive	M	[SSP]
SAP-11	Support CALLBACK session establishment and its steps	M	[SSP]
SAP-12	Support session establishment through Login transaction	M	LOGIN
SAP-13	Support redirect connection pairs through Login transaction	O	LOGIN
SAP-14	Support Logout transaction	M	LOGOUT
SAP-15	Support Disconnect transaction	M	DISCON
SAP-16	Support KeepAlive transaction	M	KPALV
SAP-17	Support GetAvailableService transaction	O	SVCNG

SAP-18	Support ServiceIndication transaction	O	SVCNG
SAP-19	Support SetServiceAgreement transaction	O	SVCNG
SAP-20	Support GetUserProfile transaction	O	[SSP]
SAP-21	Support UpdateUserProfile transaction	O	[SSP]
SAP-22	Support primitives of the above transactions as a provider server if the transactions are supported	M	[SSP]
SAP-23	Support primitives of the above transactions as a requestor server if the transactions are supported	M	[SSP]

12.2 Login transaction

Req#	Description	S-Req	Reference
LOGIN-1	For the transaction ID consistency see the semantic document	M	[SSP]
LOGIN-2	Support primitives of the Login transaction as an initiator server (Server A)	M	[SSP]
LOGIN-3	Support primitives of the Login transaction as a secondary server (Server B)	M	[SSP]
LOGIN-4	When LoginResponse indicates successful session establishment, the Session-ID is present.	M	[SSP]
LOGIN-5	When LoginResponse indicates failure in session establishment, the Session-ID is not present.	M	[SSP]
LOGIN-6	In case of setting up redirect connection pairs, the Session-ID must be the same as in the initial session establishment's LoginResponse if the transaction is successfull.	M	[SSP]
LOGIN-8	If TimeToLive is not present in LoginRequest, or if it is zero, it is considered to ask for an infinite session.	M	[SSP]
LOGIN-9	If TimeToLive is present in LoginResponse, it is considered to be the valid session duration time.	M	[SSP]
LOGIN-10	If TimeToLive is not present in LoginResponse, the TimeToLive in LoginRequest is considered to be the valid session duration time (which may be infinite if it is not in LoginRequest either)	M	[SSP]

12.3 Logout transaction

Req#	Description	S-Req	Reference
LOGOUT-1	If Logout transaction is initiated to finish one session, the Disconnect transaction must be initiated by the same server to finish the other session.	M	[SSP]

12.4 Disconnect transaction

Req#	Description	S-Req	Reference
DISCON-1	If Disconnect transaction is initiated by one provider server to finish the session, the Logout transaction must be initiated by the same server to finish the other session.	M	[SSP]

12.5 KeepAlive transaction

Req#	Description	S-Req	Reference
KPALV-1	If TimeToLive is not present in KeepAliveRequest, or if it is zero, it is considered to ask for an infinite session.	M	[SSP]
KPALV-2	If TimeToLive is present in KeepAliveResponse, it is considered to be the valid session duration time.	M	[SSP]
KPALV-3	If time out expires, the provider server must initiate Disconnect transaction to close the session or connection.	M	[SSP]
KPALV-4	If TimeToLive is not present in KeepAliveResponse, the TimeToLive in KeepAliveRequest is considered to be the valid session duration time (which may be infinite if it is not in KeepAliveRequest either)	M	[SSP]

12.6 Service Negotiation transactions

Req#	Description	S-Req	Reference
SVCNG-1	If the online service negotiation and service agreement is needed, it shall be the first transactions in the session pair after the session is established through Login transaction.	M	[SSP]
SVCNG-2	The agreed services must be provided	M	[SSP]
SVCNG-3	Service negotiation may be repeated during a session.	O	[SSP]

13. COMMON IMPS Features requirement

Req#	Description		S-Req	Reference
CMSE-1	Support GeneralSearch transaction	Support USER_ID criterion:	M	[SSP]
		Support other User related criteria	O	[SSP]
		Support Group related criteria	O	[SSP]
CMSE-2	Support StopSearch transaction		M	[SSP]
CMSE-3	Support VerifyWVID transaction		O	[SSP]
CMSE-4	Invitation cases:	Invitation for shared content	O	INVIT
		Invitation for instant messaging	O	
		Invitations for presence attributes	O	INVIT
		Invitations for group and support screen names	O	INVIT
CMSE-5	Support Basic Invitation transaction:	At least one of the CMSE-4 invitation cases	M	INVIT
	Support the same invitation case			
CMSE-6	Support Complementary Invitation transaction	At least one of the CMSE-4 invitation cases	O	INVIT
CMSE-7	Support all of the invitation cases, which IMPS service elements are supported (IM, Presence, Group)		M	INVIT
CMSE-8	Support Basic CancelInvitation transaction	CancelInvitation for the presence sharing or shared content sharing cases if one of them is supported by CMSE-5 or CMSE-7	M	CAINV
CMSE-9	Support Complementary CancelInvitation transaction	CancelInvitation for the presence sharing or shared content sharing cases if one of them is supported by CMSE-5 or CMSE-7	O	CAINV

13.1 Invitation transactions

Req#	Description	S-Req	Reference
INVIT-1	Support primitives of the Basic Invitation transaction	M	[SSP]
INVIT-2	Support primitives of the Complementary Invitation transaction	O	[SSP]

	as a requestor server 2 which represents invited user		
INVIT-3	The Invite-ID is the same in the InviteRequest, InviteUserRequest, InviteUserResponse and InviteResponse messages.	**M**	[SSP]
INVIT-4	When InviteRequest primitive is sent to the provider server, the provider server sends the invitation to all of the users indicated in the request in case of Basic Invitation transaction	M	[SSP]
INVIT-5	When Complementary InviteRequest primitive is sent to the provider server, the provider server sends InviteUserRequest to all of the requestor server 2 which represent the users that are invited	M	[SSP]
INVIT-6	When InviteUserResponse primitive is sent to the provider server, the provider server sends InviteResponse to the originating requestor server 1 which represents the inviting user if the Complementary Invitation transaction is supported	M	[SSP]
INVIT-7	Support semantics mapping between SSP primitive and CSP primitive if the transaction is supported	M	[SSP] & [CSP]
INVIT-8	Support syntax mapping between SSP primitive and CSP primitive if the transaction is supported	M	[SSP], [SSP Syntax], [CSP] & [CSP DTD]
INVIT-9	Support S-Req of corresponding transaction details defined in SCR of CSP if the transaction is supported as a provider server.	M	[SSP], [CSP] & [CSP SCR]
INVIT-10	Support C-Req of the corresponding transaction details defined in SCR of CSP where it is appropriate if the complementary transactions are supported	M	[SSP], [CSP] & [CSP SCR]

13.2 CancelInvitation transaction

Req#	Description	S-Req	Reference
CAINV-1	Support primitives of the Basic CancelInvitation transaction	M	[SSP]
CAINV-2	When CancelInviteRequest primitive is sent to the provider server, the provider server sends the cancellation to all of the users indicated in the request in case of Basic CancelInvitation transaction	M	[SSP]
CAINV-3	Support primitives of the Complementary CancelInvitation transaction as a requestor server 2 which represents canceled user	O	[SSP]
CAINV–4	When CancelInviteRequest primitive is sent to the provider server, the provider server sends CancelInviteUserRequest to all of the requestor server 2 which represent the users indicated in the request if the Complementary CancalInvitation transaction is supported.	M	[SSP]

CAINV–5	The Invite-ID refers to a previously sent out invitation.	M	[SSP]
CAINV–6	The Invite-ID is the same in the CancelInviteRequest, CancelInviteResponse, CancelInviteUserRequest and CancelInviteUserResponse primitives.	M	[SSP]
CAINV-7	Support semantics mapping between SSP primitive and CSP primitive if the transaction is supported	M	[SSP] & [CSP]
CAINV-8	Support syntax mapping between SSP primitive and CSP primitive if the transaction is supported	M	[SSP], [SSP Syntax], [CSP] & [CSP DTD]
CAINV-9	Support C-Req of the corresponding transaction details defined in SCR of CSP where it is appropriate if the complementary transactions are supported	M	[SSP], [CSP] & [CSP SCR]
CAINV-10	Support S-Req of corresponding transaction details defined in SCR of CSP if the transaction is supported as a provider server	M	[SSP], [CSP] & [CSP SCR]

14. Presence Service Features Requirement

Req#	Description		S-Req	Reference
PRSE-1	Support Contact List get functions: GetContactList, GetListMember and GetListProperties transactions		O	[SSP]
PRSE-2	Support Contact List create/delete/modify functions: CreateContactList, DeleteContactList, AddListMember, RemoveListMember and SetListProperties transactions		O	[SSP]
PRSE-3	Support Attribute List functions: CreateAttributeList, DeleteAttrList, GetAttrList transaction		O	[SSP]
PRSE4	Support Subscribe transaction – subscribe to presence	Support User-ID List	M	[SSP]
		Support Contact List object	O	[SSP]
PRSE-5	Support Unsubscribe transaction	Support User-ID List	M	[SSP]
		Support Contact List object	O	[SSP]
PRSE-6	Support GetPresence transaction	Support User-ID List	M	[SSP]
		Support Contact List object	O	[SSP]
PRSE-7	Support UpdatePresence transaction	Support User-ID List	M	[SSP]
		Support Contact List object	O	[SSP]
PRSE-8	Support PresenceNotification transaction		M	[SSP]
PRSE-9	Support GetWatcherList transaction		O	[SSP]
PRSE-10	Support Authorization functions: ReactiveAuthorization, CancelAuthorization, GetReactiveAuthStatus transaction		O	[SSP]
PRSE-11	Support primitives of the above transactions as a requestor server if the transactions are supported		M	[SSP]
PRSE-12	Support primitives of the above transactions as a provider server if the transactions are supported		M	[SSP]
PRSE-13	Support semantics mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported		M	[SSP] & [CSP]
PRSE-14	Support syntax mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported		M	[SSP], [SSP Syntax], [CSP] & [CSP DTD]
PRSE-15	Support C-Req of the corresponding transaction details defined in SCR of CSP where it is appropriate if the		M	[SSP], [CSP] & [CSP

	complementary transactions are supported			SCR]
PRSE-16	Support S-Req of the corresponding transaction details defined in SCR of CSP if the transactions are supported as a provider server.		M	[SSP], [CSP] & [CSP SCR]
PRSE-17	Support Suspend transaction	Support User-ID List	M	[SSP]
		Support Contact List object	O	[SSP]

15. Instant Messaging Features Requirement

Req#	Description		S-Req	Reference
IMSE-1	Support recipient addressed by User-ID		M	[SSP]
IMSE-2	Support recipients listed by Contact List ID		O	[SSP]
IMSE-3	Support recipient as Group-ID and addressing by screen name		O	[SSP]
IMSE-4	Support SendMessage transaction	IMSE-1	M	[SSP]
		IMSE-2	O	[SSP]
		IMSE-3	O	[SSP]
IMSE-5	Support ForwardMessage transaction	IMSE-1	M	[SSP]
		IMSE-2	O	[SSP]
		IMSE-3	O	[SSP]
IMSE-6	Support PushMessage transaction		O	[SSP]
IMSE-7	Support MessageNotification transaction		O	[SSP]
IMSE-8	Support GetMessage transaction		O	[SSP]
IMSE-9	Support SetMessageDeliveryMethod transaction		O	[SSP]
IMSE-10	Support GetMessageList transaction	Group history request	M	[SSP]
		Undelivered messages	O	[SSP]
IMSE-11	Support RejectMessage transaction		O	[SSP]
IMSE-12	Support NotifyDeliveryStatusReport transaction		M	[SSP]
IMSE-13	Support of group history caching		O	[SSP]
IMSE-14	The save history is part of the IM service if the group history caching is supported.		M	[SSP]
IMSE-15	The GetJoinedMembers (Group features) transaction is used by the IM service element to get the list of the joined members of the group to route a message addressed to a group in case of complementary service.		M	[SSP]
IMSE-16	The GetJoinedMembers (Group features) transaction is used by the IM service element to check the validity of the GetMessageList requester user to receive the history in case of complementary service.		M	[SSP]
IMSE-17	Support Block functions: BlockUser/GetBlockList transactions		O	[SSP]
IMSE-18	Support primitives of the above transactions as a requestor server if the transactions are supported		M	[SSP]

IMSE-19	Support primitives of the above transactions as a provider server if the transactions are supported	M	[SSP]
IMSE-20	Support semantics mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported	M	[SSP] & [CSP]
IMSE-21	Support syntax mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported	M	[SSP], [SSP Syntax], [CSP] & [CSP DTD]
IMSE-22	Support C-Req of the corresponding transaction details defined in SCR of CSP where it is appropriate if the complementary transactions are supported	M	[SSP], [CSP] & [CSP SCR]
IMSE-23	Support S-Req of the corresponding transaction details defined in SCR of CSP if the transactions are supported as a provider server	M	[SSP], [CSP] & [CSP SCR]

16. Group Service Features Requirement

Req#	Description	S-Req	Reference
GRSE-1	Support group management functions: CreateGroup/DeleteGroup transactions	O	[SSP]
GRSE-2	Support Join/Leave/ServerInitiatedLeaveGroup transactions	M	[SSP]
GRSE-3	Support GetJoinedMember transaction	O	[SSP]
GRSE-4	Support group member management functions: Get/Add/RemoveGroupMember, MemberAccess transactions	O	[SSP]
GRSE-5	Support Get/SetGroupProps transactions	M	[SSP]
GRSE-6	Support RejectList transaction – reject members	O	[SSP]
GRSE-7	Support Subscribe/UnsubscribeGroupChange and GetGroupSubStatus transactions	M	[SSP]
GRSE-8	Support NotifyGroupChange transaction	M	[SSP]
GRSE-9	The Group service uses IM service to send/receive and store messages to chat groups	M	[SSP]
GRSE-10	Support primitives of the above transactions as a requestor server if the transactions are supported	M	[SSP]
GRSE-11	Support primitives of the above transactions as a provider server if the transactions are supported	M	[SSP]
GRSE-12	Support semantics mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported	M	[SSP] & [CSP]
GRSE-13	Support syntax mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported	M	[SSP], [SSP Syntax], [CSP] & [CSP DTD]
GRSE-14	Support C-Req of the corresponding transaction details defined in SCR of CSP where it is appropriate if the complementary transactions are supported	M	[SSP], [CSP] & [CSP SCR]
GRSE-15	Support S-Req of the corresponding transaction details defined in SCR of CSP if the transactions are supported as a provider server	M	[SSP], [CSP] & [CSP SCR]

Appendix A. Static Conformance Requirements (Normative)

Not Applicable - the static conformance requirements are contained within the body of this document.

Appendix B. Change History (Informative)

Type of Change	Date	Section	Description
Class 0	2003-01-17		The initial version of this document.