



**SSP – Server Server Protocol
Static Conformance Requirement
Version 1.1**

WV Internal Tracking Number: WV-035

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1. REVISION HISTORY

| Date | Issue | Description | Author |
|---------------------------|--------------|--------------------|---------------|
| February 13 th | TBD | Initial release | WV TechComm |
| July 31, 2002 | V1.1 | Version 1.1 | WV TechComm |

2. REFERENCES

- [1] Wireless Village Features and Functions Document
- [2] Wireless Village System Architecture Model Document
- [3] Wireless Village SSP – Server Server Protocol Semantics Layer Document
- [4] Wireless Village SSP – Server Server Protocol XML Syntax Layer Document
- [5] Wireless Village CSP – Client Server Protocol Sessions and Transactions
- [6] Wireless Village CSP – Client Server Protocol Static Conformance Requirement
- [7] Wireless Village CSP – Server Server Protocol XML DTD and Examples
- [8] XML 1.0 (Second Edition) – <http://www.w3.org/TR/2000/REC-xml-20001006>

3. DEFINITIONS AND ABBREVIATIONS

| | |
|-------|-----------------------------------|
| 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. 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 |

5. XML ENCODING REQUIREMENT

| Req# | Description | S-Req | Reference |
|-------|--|-------|-----------|
| XML-1 | XML encoding is well-formed | M | [8] |
| XML-2 | XML encoding follows the DTD | M | [4] |
| XML-3 | XML encoding tolerates protocol extension | M | [4] |
| XML-4 | The namespace identifier is "http://www.wireless-village.org/SSP1.1" | M | [4] |

6. 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 | [3] |
| ADDR-2 | Support the conversion from local address of the own users into global address when service is relayed | M | [3] |

7. DATA TYPE REQUIREMENT

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

8. INFRASTRUCTURE REQUIREMENT

| Req# | Description | S-Req | Reference |
|--------|--|-------|-----------|
| INFR-1 | Support the "Host-ID" address resolution | M | [3] |

9. SESSION MANAGEMENT REQUIREMENT

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

10. TRANSACTION MANAGEMENT REQUIREMENT

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

11. SERVICE ACCESS POINT FEATURES REQUIREMENT

11.1. FUNCTIONAL REQUIREMENTS

| Req# | Description | S-Req | Reference |
|--------|--|-------|-----------|
| SAP-1 | Support service relay between the Home Domains through direct SSP connection(s) | M | [3] |
| SAP-2 | Support service relay between the Home Domain and its complementary service | O | [3] |
| 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 | [3] |
| 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 | [3] |
| SAP-5 | Support service relay – routing for the SAP-2 | O | [3] |
| 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 | [3] |
| SAP-7 | In minimal interoperability case, the Invite, CancellInvite, 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 | [3] |
| SAP-8 | Support the conversion from local object to global object(s) when service is relayed | M | [3] |
| SAP-9 | Support Meta-Information primitive | M | [3] |
| SAP-10 | Support Status primitive | M | [3] |
| SAP-11 | Support CALLBACK session establishment and its steps | M | [3] |
| 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 | [3] |
| SAP-21 | Support UpdateUserProfile transaction | O | [3] |

| | | | |
|--------|--|---|-----|
| SAP-22 | Support primitives of the above transactions as a provider server if the transactions are supported | M | [3] |
| SAP-23 | Support primitives of the above transactions as a requestor server if the transactions are supported | M | [3] |

11.2. LOGIN TRANSACTION

| Req# | Description | S-Req | Reference |
|----------|---|-------|-----------|
| LOGIN-1 | For the transaction ID consistency see the semantic document | M | [3] |
| LOGIN-2 | Support primitives of the Login transaction as an initiator server (Server A) | M | [3] |
| LOGIN-3 | Support primitives of the Login transaction as a secondary server (Server B) | M | [3] |
| LOGIN-4 | When LoginResponse indicates successful session establishment, the Session-ID is present. | M | [3] |
| LOGIN-5 | When LoginResponse indicates failure in session establishment, the Session-ID is not present. | M | [3] |
| 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 successful. | M | [3] |
| LOGIN-8 | If TimeToLive is not present in LoginRequest, or if it is zero, it is considered to ask for an infinite session. | M | [3] |
| LOGIN-9 | If TimeToLive is present in LoginResponse, it is considered to be the valid session duration time. | M | [3] |
| 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 | [3] |

11.3. 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 | [3] |

11.4. 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 | [3] |

11.5. 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 | [3] |
| KPALV-2 | If TimeToLive is present in KeepAliveResponse, it is considered to be the valid session duration time. | M | [3] |
| KPALV-3 | If time out expires, the provider server must initiate Disconnect transaction to close the session or connection. | M | [3] |
| 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 | [3] |

11.6. 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 | [3] |
| SVCNG-2 | The agreed services must be provided | M | [3] |
| SVCNG-3 | Service negotiation may be repeated during a session. | O | [3] |

12. COMMON IMPS FEATURES REQUIREMENT

| Req# | Description | | S-Req | Reference |
|--------|--|--|-------|-----------|
| CMSE-1 | Support GeneralSearch transaction | Support USER_ID criterion: | M | [3] |
| | | Support other User related criteria | O | [3] |
| | | Support Group related criteria | O | [3] |
| CMSE-2 | Support StopSearch transaction | | M | [3] |
| CMSE-3 | Support VerifyUserid transaction | | O | [3] |
| 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 CancellInvitation transaction | CancellInvitation 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 CancellInvitation transaction | CancellInvitation for the presence sharing or shared content sharing cases if one of them is supported by CMSE-5 or CMSE-7 | O | CAINV |

12.1. INVITATION TRANSACTIONS

| Req# | Description | S-Req | Reference |
|---------|--|-------|-----------|
| INVIT-1 | Support primitives of the Basic Invitation transaction | M | [3] |
| INVIT-2 | Support primitives of the Complementary Invitation transaction as a requestor server 2 which represents invited user | O | [3] |
| INVIT-3 | The Invite-ID is the same in the InviteRequest, InviteUserRequest, InviteUserResponse and InviteResponse messages. | M | [3] |

| | | | |
|----------|--|---|---------------------|
| 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 | [3] |
| 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 | [3] |
| 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 | [3] |
| INVIT-7 | Support semantics mapping between SSP primitive and CSP primitive if the transaction is supported | M | [3] & [5] |
| INVIT-8 | Support syntax mapping between SSP primitive and CSP primitive if the transaction is supported | M | [3], [4], [5] & [7] |
| INVIT-9 | Support S-Req of corresponding transaction details defined in SCR of CSP if the transaction is supported as a provider server. | M | [3], [5] & [6] |
| 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 | [3], [5] & [6] |

12.2. CANCELINVITATION TRANSACTION

| Req# | Description | S-Req | Reference |
|---------|---|-------|---------------|
| CAINV-1 | Support primitives of the Basic CancellInvitation transaction | M | [3] |
| CAINV-2 | When CancellInviteRequest 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 CancellInvitation transaction | M | [3] |
| CAINV-3 | Support primitives of the Complementary CancellInvitation transaction as a requestor server 2 which represents canceled user | O | [3] |
| CAINV-4 | When CancellInviteRequest primitive is sent to the provider server, the provider server sends CancellInviteUserRequest to all of the requestor server 2 which represent the users indicated in the request if the Complementary CancellInvitation transaction is supported. | M | [3] |
| CAINV-5 | The Invite-ID refers to a previously sent out invitation. | M | [3] |
| CAINV-6 | The Invite-ID is the same in the CancellInviteRequest, CancellInviteResponse, CancellInviteUserRequest and CancellInviteUserResponse primitives. | M | [3] |
| CAINV-7 | Support semantics mapping between SSP primitive and CSP primitive if the transaction is supported | M | [3] & [5] |
| CAINV-8 | Support syntax mapping between SSP primitive | M | [3], [4], [5] |

| | | | |
|----------|--|---|----------------|
| | and CSP primitive if the transaction is supported | | & [7] |
| 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 | [3], [5] & [6] |
| CAINV-10 | Support S-Req of corresponding transaction details defined in SCR of CSP if the transaction is supported as a provider server | M | [3], [5] & [6] |

13. PRESENCE SERVICE FEATURES REQUIREMENT

| Req# | Description | S-Req | Reference | |
|---------|---|-----------------------------|---------------------|-----|
| PRSE-1 | Support Contact List get functions: GetContactList, GetListMember and GetListProperties transactions | O | [3] | |
| PRSE-2 | Support Contact List create/delete/modify functions: CreateContactList, DeleteContactList, AddListMember, RemoveListMember and SetListProperties transactions | O | [3] | |
| PRSE-3 | Support Attribute List functions: CreateAttributeList, DeleteAttrList, GetAttrList transaction | O | [3] | |
| PRSE-4 | Support Subscribe transaction – subscribe to presence | Support User-ID List | M | [3] |
| | | Support Contact List object | O | [3] |
| PRSE-5 | Support Unsubscribe transaction | Support User-ID List | M | [3] |
| | | Support Contact List object | O | [3] |
| PRSE-6 | Support GetPresence transaction | Support User-ID List | M | [3] |
| | | Support Contact List object | O | [3] |
| PRSE-7 | Support UpdatePresence transaction | Support User-ID List | M | [3] |
| | | Support Contact List object | O | [3] |
| PRSE-8 | Support PresenceNotification transaction | M | [3] | |
| PRSE-9 | Support GetWatcherList transaction | O | [3] | |
| PRSE-10 | Support Authorization functions: ReactiveAuthorization, CancelAuthorization transaction | O | [3] | |
| PRSE-11 | Support primitives of the above transactions as a requestor server if the transactions are supported | M | [3] | |
| PRSE-12 | Support primitives of the above transactions as a provider server if the transactions are supported | M | [3] | |
| PRSE-13 | Support semantics mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported | M | [3] & [5] | |
| PRSE-14 | Support syntax mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported | M | [3], [4], [5] & [7] | |
| PRSE-15 | Support C-Req of the corresponding transaction details defined in SCR of CSP where it is appropriate if the complementary transactions are supported | M | [3], [5] & [6] | |
| 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 | [3], [5] & [6] | |

14. INSTANT MESSAGING FEATURES REQUIREMENT

| Req# | Description | S-Req | Reference | |
|---------|--|-----------------------|---------------------|-----|
| IMSE-1 | Support recipient addressed by User-ID | M | [3] | |
| IMSE-2 | Support recipients listed by Contact List ID | O | [3] | |
| IMSE-3 | Support recipient as Group-ID and addressing by screen name | O | [3] | |
| IMSE-4 | Support SendMessage transaction | IMSE-1 | M | [3] |
| | | IMSE-2 | O | [3] |
| | | IMSE-3 | O | [3] |
| IMSE-5 | Support ForwardMessage transaction | IMSE-1 | M | [3] |
| | | IMSE-2 | O | [3] |
| | | IMSE-3 | O | [3] |
| IMSE-6 | Support PushMessage transaction | O | [3] | |
| IMSE-7 | Support MessageNotification transaction | O | [3] | |
| IMSE-8 | Support GetMessage transaction | O | [3] | |
| IMSE-9 | Support SetMessageDeliveryMethod transaction | O | [3] | |
| IMSE-10 | Support GetMessageList transaction | Group history request | M | [3] |
| | | Undelivered messages | O | [3] |
| IMSE-11 | Support RejectMessage transaction | O | [3] | |
| IMSE-12 | Support NotifyDeliveryStatusReport transaction | M | [3] | |
| IMSE-13 | Support of group history caching | O | [3] | |
| IMSE-14 | The save history is part of the IM service if the group history caching is supported. | M | [3] | |
| 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 | [3] | |
| 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 | [3] | |
| IMSE-17 | Support Block functions: BlockUser/GetBlockList transactions | O | [3] | |
| IMSE-18 | Support primitives of the above transactions as a requestor server if the transactions are supported | M | [3] | |
| IMSE-19 | Support primitives of the above transactions as a provider server if the transactions are supported | M | [3] | |
| IMSE-20 | Support semantics mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported | M | [3] & [5] | |
| IMSE-21 | Support syntax mapping between SSP primitive and CSP primitive of the above transactions if the transactions are supported | M | [3], [4], [5] & [7] | |
| 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 | [3], [5] & [6] | |
| IMSE-23 | Support S-Req of the corresponding transaction | M | [3], [5] & | |

| | | | |
|--|--|--|-----|
| | details defined in SCR of CSP if the transactions are supported as a provider server | | [6] |
|--|--|--|-----|

15. GROUP SERVICE FEATURES REQUIREMENT

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