ACTIVITY PROPOSAL

GROUP: **IMMEDIATE MESSAGING (IM)**

DATE: **FEBRUARY 1, 2001**

1. EXECUTIVE SUMMARY

- Creation of new expert group
- No current group has this activity within their charter
- There is substantial interest in seeing Immediate Messaging (IM) and related applications work through WAP.
- IM is to provide expert advice, perspective, functional requirements, and information to Push, ClientID, WSG, and UAProf. In addition, IM is to work with CEG, WDEG, LocDC, and MMEG on overlapping issues of market and functional needs.
- Use cases and requirements analysis, analysis of current IM models, liaison with other work groups, adoption and interoperable model, suited to current wireless network standards, suggesting changes or drafting of new protocol(s) as needed, and proposal of a roadmap to bring all parts on line.
- Architectural plan to converge with industry standards and identify changes to existing protocols and specifications in WAP to meet market requirements.
- All work should be completed in stages in less than 18 months without expansion of these goals.

2. CURRENT STATUS WITHIN WAP

There is much interest from developers and service providers. IM is similar in nature to SMS messaging although requirements extend beyond SMS, making SMSEG less than a perfect fit. MMEG work is related because of their desire to transfer multimedia content via push or pull. An entirely new WG is warranted because of the scope of entanglement with various other groups' work. Eventually new WAP protocol(s) may need to be drafted, depending on the outcome of architectural studies.

3. SCOPE

- Six use cases have been outlined in the MRD, service subscription, service registration and presence publishing, immediate message transport, contact list with presence, multi-user IM, logging and extract signing. Other use cases will be solicited. Additional requirements, especially technical, will be developed.
- No prototyping or implementation is envisioned at this time.
- If suitable standards can be found and adopted, no specification work will be necessary beyond identifying candidate specifications. Much external work has occurred on IMPP, IM-Unified and 3GPP and may provide acceptable standards. If not, proposed modifications or whole new standards may be needed.
- Research of current standards and work in process with liaison as needed will be conducted.
- The market for instant contact with presence indication is addressed.

4. CRITERIA FOR SUCCESS

Adoption of an architecture and related protocols is the clear criterion for success. When carriers and developers agree that the model is technically feasible and enable business based on the underlying models, IM will be considered a success.

5. DURATION

The overall program is expected to be completed in 18 months after start. At least two phases will be included.

6. SCHEDULE AND DELIVERABLES

- Additional Use Cases and Refinement of Current Use Cases   2001-March-31
- Technical Requirements Document   2001-May-31
- Adopted Reference Model   2001-July-31
- Roadmap for MRD/TRD into Phase I/II   2001-September-30
- Phase I: Adopted Protocol(s) and other Specifications   2001-September-30
- Phase I: Modifications to Existing Protocol(s) and Specifications 2001-September-30
- Phase I: Elevation of Specifications to Proposed   2001-October-31
- Phase I: Test Assertions   2001-November-30
- Phase I: Approval for WAP Specifications   2001-December-31
- Phase II: Adopted Protocol(s) and other Specifications   2002-March-31
- Phase II: Modifications to Existing Protocol(s) and Specifications   2002-March-31
- Phase II: Elevation of Specifications to Proposed   2002-April-30
- Phase II: Test Assertions   2002-May-31
- Phase II: Approval for WAP Specifications   2002-June-30

7. RECOMMENDATION FOR CHAIR(S)

T. Edward Sumner has volunteered to act as Interim Chair of the group.

8. CO-ORDINATION WITH OTHER WAP ACTIVITIES

- Subscription overlaps ClientID, Carriers, Service Providers
- Registration & Presence overlaps Location, Carriers, Service Providers
- Logging and Multi-user overlaps WDEG and content overlaps WDEG and MMEG
- Signing overlaps WSG
- Transport overlaps WAG-Push

9. IPR ISSUES

At this time, no known IPR issues have surfaced, but due to market value of the applications and service, some may be brought up later.

10. REFERENCES

PRIM `draft-mazzoldi-prim-impp-00.txt`
IMXP Presence `draft-mrose-imxp-presence-01`
The IMXP `draft-mrose-imxp-core-01`
Common Profile for IMXP `draft-mrose-impp-common-00`
IM-Unified http://www.imunified.org/
Article on Jabber http://www.webtechniques.com/archives/2000/12/landrum/
3GPP
SIMPLE over SIP http://www.ietf.org/internet-drafts/draft-rosenberg-impp-im-00.txt

11. OTHER BACKGROUND INFORMATION

- A Model for Presence and Instant Messaging (RFC 2778)
- Instant Messaging / Presence Protocol Requirements (RFC 2779)