Minutes of the PWG Web Based Monitoring and Management meeting - March 31, 2003

Harry Lewis, 4/3/03

Attendees

- • Alan Berkema, HP
- • Elliott Bradshaw, Oak Technology
- • Dennis Carney, IBM
- • Lee Farrell, Canon
- • David Hall, HP
- • Kelli Kennedy, HP (incoming Editor)
- • Harry Lewis, IBM (Secretary)
- • Cathy Markel, HP (outgoing Editor)
- • Ira McDonald, High North
- • Gail Songer, Peerless
- • Bob Taylor, HP
- • Jerry Thrasher, Lexmark
- • Ted Tronson, Novell
- • Bill Wagner, NetSilicon (Committee Chairman)
- • Peter Zehler, Xerox

General

Meeting was started at 12:00 PM EST using the phone bridge set up by the IEEE-ISTO to replace the face to face meetings scheduled for Washington DC. Notice was made that Cathy Markel is retiring as editor and is being replaced by Kelli Kennedy, also from HP.

The agenda and the last phone conference minutes were accepted without comment.

The meeting continued with a detailed review of the proposed scenarios and the implications. The meeting continued with a discussion of the reorganization and prioritization of the brainstorm "uses list" generated at the January Face to Face meeting.

In discussion, it was established that the scope of WBMM has been extended from the preliminary charter to include full intra-enterprise device and service management. To support this, it was suggested that additional scenarios be drawn up to illustrate the need for allowing the management station to cause a connection to be made. It was concluded that, rather than requiring that both device and management station to have both client and server capabilities, a separate simple protocol would be used to allow management stations to request that a device, or all devices contact the management station.

Summary of Conclusions since BOF

The WBMM working group was chartered at the "Device Management" BOF during the last PWG face to face January 21, 2003. Since then, members have been working of articulating requirements by developing scenarios. The overall scope of WBMM has been expanded to address both extranet access and full device management as well as intranet inter-enterprise device management, with the understanding that the capability must allow for the local setting of policies that restrict remote access. To reflect this, the proposed charter will be revised and submitted to the PWG according to the newly established process.

WBMM goals now include definition of methods, operations and an XML based data model for device management. WBMM will extend the PWG semantic model and should be complimentary in terms of design and architecture with the PWG Print Services Interface. WBMM will address management of imaging related web services as well as devices.

Decisions

Since the January BOF, the WBMM WG has made the following decisions.

1. Best starting point for the XML based device management data model is the Printer MIB. Two approaches discussed. We will start with (2)
   1. Manual mapping. Break the MIB into groups and assign to several individuals
   2. Automated. Ira is working on a tool to automatically generate an XML encoding of the Printer MIB that maintains all the correct data types, data ranges etc.
2. We agreed that it is valid for WBMM to perform something akin to the Printer MIB "prtGeneralReset" although this might not always be possible or advisable through firewalls. That is, reset, like all reconfiguration operations, must be subject to local policies.
3. We need to facilitate administrative policy that may restrict various operations and access to locally-selected configuration parameters based on authentication.
4. To support extra-enterprise communication, a device-client/management-server configuration is adopted with primary consideration of HTTP/port 80 as the transport.
5. Just as PSI mandates HTTP but may utilize other valid transports (ex. SMTP), WBMM should be designed with the same criteria
6. We are not reinventing notification subscriptions but we will define the event packet. If the PWG needs a general event notification framework it should be addressed in PSI or as a separate working group. DHCP is one method for a device to find the event server to bind with.

Issues

1. Question to be answered – do we need a well known IANA port registered for WBMM for intra-enterprise applications.
2. Question to be answered – what protocol or method should be used to allow management servers to alert devices to contact them

Next Steps

1. Scenarios need to be combined, added to and illustrated with diagrams including (especially) firewall traversal. – W Wagner – 16 April
2. The charter must be revised and posted for approval – W Wagner
3. Hand-generated samples of the MIB-extracted XML elements should be generated for evaluation – Ira McDonald – 16 April
4. Ira will attempt to get his MIB information extract tool applied to this task within a month or so.
5. WG-approved Scenarios will be incorporated into a Requirements Document – Kelli Kennedy
6. The next WBMM phone conference will be:

> Time:12:00 PMEDT (9:00 AM PDT) Wednesday 16 April 2003
>
> Call-in US Toll-free: 1-877-874-5524
>
> Call-in International/Toll: 1-712-455-8420
>
> Participant Identification number: 497478