[MS-MDM]: Mobile Device Management Protocol

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Errata below are for Protocol Document Version V10.0 - 2020/08/26

Errata Published*	Description

2020/10/12	In Section 2.1, Transport, details were added about support for an additional encoding type beyond the default type.
	
	Changed from:
	
	MDM, both as defined in this document and the OMA-DM protocol [OMA-DMP1.2.1], uses HTTP (as specified in [RFC2616]) as the transport layer. HTTP operations are performed on resources identified by a URI. MDM extends the resource addressing rules used by HTTP for URI formatting as specified in section 2.2.3.
	
	Changed to:
	
	MDM, both as defined in this document and the OMA-DM protocol [OMA-DMP1.2.1], uses HTTP (as specified in [RFC2616]) as the transport layer. MDM, in compliance with [OMA-SyncML-HTTPBnd], supports both "application/vnd.syncml.dm+xml" (default) and "application/vnd.syncml.dm+wbxml" encoding types. The server can be configured with the DMAcc Configuration Service Provider's Microsoft/DefaultEncoding, as described in [DMC-DMAcc-CSP]. HTTP operations are performed on resources identified by a URI. MDM extends the resource addressing rules used by HTTP for URI formatting as specified in section 2.2.3.
	
	In Section 4, Examples, an unneeded XML header line in the middle of the example was deleted.
	
	Changed from:
	
	// The server responds with the required Status command for the SyncHdr and
	// Status commands for the requested Alert and Replace commands. The server
	// requests more information from the client with a series of Get commands
	.

Errata Published*	Description

	<?xml version="1.0" encoding="utf-8" ?>
	<SyncML xmlns="SYNCML:SYNCML1.2">
	
	Changed to:
	
	// The server responds with the required Status command for the SyncHdr and
	// Status commands for the requested Alert and Replace commands. The server
	// requests more information from the client with a series of Get commands
	<SyncML xmlns="SYNCML:SYNCML1.2">

*Date format: YYYY/MM/DD

	In Section 2.2.1.2.37 MIB_IPMCAST_BOUNDARY, added names of dwStatus values in the table. Changed from: dwStatus: A status value that describes the current status of this entry in a mullticast forwarding entry (MFE) boundary table. Value Meaning 0x00000001 The entry has an active status. 0x00000002 The entry has a notInService status. 0x00000003 The entry has a notReady status. 0x00000004 The entry has a createAndGo status. 0x00000005 The entry has a createAndWait status. 0x00000006 The entry has a destroy status. Changed to: dwStatus: A status value that describes the current status of this entry in a multicast forwarding entry (MFE) boundary table. Value Meaning ROWSTATUS_ACTIVE 0x00000001 The entry has an active status. ROWSTATUS_NOTINSERVICE 0x00000002 The entry has a notInService status. ROWSTATUS_NOTREADY 0x00000003 The entry has a notReady status. ROWSTATUS_CREATEANDGO 0x00000004 The entry has a createAndGo status. ROWSTATUS_CREATEANDWAIT 0x00000005 The entry has a createAndWait status. ROWSTATUS_DESTROY 0x00000006 The entry has a destroy status. Section 2.2.1.2.105 IPX_MIB_INDEX, added missing value 3 in the table. Changed from:
2019/10/28	TableId: Specifies the type of table. Values MUST be one of the following values.

	Value Meaning IPX_BASE_ENTRY 0x00000000 IPX base. See IPXMIB_BASE (section 2.2.1.2.107). IPX_INTERFACE_TABLE 0x00000001 IPX interface table. See IPX_INTERFACE (section 2.2.1.2.109). IPX_DEST_TABLE 0x00000002 IPX destination table. See IPX_ROUTE (section 2.2.1.2.110). IPX_SERV_TABLE 0x00000004 IPX service table. See IPX_SERVICE (section 2.2.1.2.121). IPX_STATIC_SERV_TABLE 0x00000005 IPX static service table. See IPX_STATIC_SERVICE_INFO (section 2.2.1.2.95). Changed to: TableId: Specifies the type of table. Values MUST be one of the following values. Value Meaning IPX_BASE_ENTRY 0x00000000 IPX base. See IPXMIB_BASE (section 2.2.1.2.106). IPX_INTERFACE_TABLE 0x00000001 IPX interface table. See IPX_INTERFACE (section 2.2.1.2.108). IPX_DEST_TABLE 0x00000002 IPX destination table. See IPX_ROUTE (section 2.2.1.2.109). IPX_STATIC_ROUTE_TABLE 0x00000003 IPX Static Route Table. See IPX_STATIC_ROUTE_INFO (section 2.2.1.2.93). IPX_SERV_TABLE 0x00000004 IPX service table. See IPX_SERVICE (section 2.2.1.2.120). IPX_STATIC_SERV_TABLE 0x00000005 IPX static service table. See IPX_STATIC_SERVICE_INFO (section 2.2.1.2.94).

	Section 2.2.1.2.177 IGMP_MIB_GROUP_INFO, updated names of values in the introduction: RAS_SERVER to IGMP_IF_RAS_SERVER, RAS_CLIENT to IGMP_IF_RAS_CLIENT, and IGMP_ENUM_FOR_RAS_CLIENTS_ID to IGMP_ENUM_FOR_RAS_CLIENTS. Changed from: The IGMP_MIB_GROUP_INFO structure is used in the IGMP_MIB_IF_GROUPS_LIST (section 2.2.1.2.176) structure. If the interface is of type RAS_SERVER then the group membership of all the RAS clients is summarized, and the GroupUpTime and GroupExpiryTime is the maximum over all member RAS clients, while the V1HostPresentTimeLeft is set to 0. If the interface is of type RAS_CLIENT, the IpAddr is the next hop IP address of the RAS client. The membership is summarized over the RAS clients unless the IGMP_ENUM_FOR_RAS_CLIENTS_ID flag is set in Flags. Changed to: The IGMP_MIB_GROUP_INFO structure is used in the IGMP_MIB_IF_GROUPS_LIST (section 2.2.1.2.175) structure. If the interface is of type IGMP_IF_RAS_SERVER then the group membership of all the RAS clients is summarized, and the GroupUpTime and GroupExpiryTime is the maximum over all member RAS clients, while the V1HostPresentTimeLeft is set to 0. If the interface is of type IGMP_IF_RAS_CLIENT, the IpAddr is the next hop IP address of the RAS client. The membership is summarized over the RAS clients unless the IGMP_ENUM_FOR_RAS_CLIENTS_ID flag is set in Flags. Section 2.2.1.2.178 IGMP_MIB_IF_STATS, in the LastQuerierChangeTime description changed member name from igmpInterfaceQuerier to QuerierIpAddr. Changed from: LastQuerierChangeTime: The number of seconds since igmpInterfaceQuerier was last changed. Changed to: LastQuerierChangeTime: The number of seconds since QuerierIpAddr was last changed. Section 2.2.1.2.179 IGMP_MIB_GROUP_SOURCE_INFO_V3, added section. Adjusted references and reference numbers 2.2.1.2.180 to 2.2.1.2.271 throughout to compensate for section number changes. Changed from: (missing section) Changed to: The IGMP_MIB_GROUP_SOURCE_INFO_V3 structure provides information about each source IP endpoint. typedef struct _IGMP_MIB_GROUP_SOURCE_INFO_V3 { DWORD Source; DWORD SourceExpiryTime; DWORD SourceUpTime; DWORD Flags;

	} IGMP_MIB_GROUP_SOURCE_INFO_V3, *PIGMP_MIB_GROUP_SOURCE_INFO_V3;
	
	Source: IP endpoint address of a source.
	
	SourceExpiryTime: The time, in seconds, that remains before source expires. Not valid for exclusion mode.
	
	SourceUpTime: The time, in seconds since the source was up.
	Flags: Reserved. This is unused and SHOULD be NULL, or MAY be set to 0x00000000.
	
	Section 2.2.1.2.180 IGMP_MIB_GROUP_INFO_V3, for Sources array of IGMP_MIB_GROUP_SOURCE_INFO_V3 added reference to 2.2.1.2.179.
	
	Changed from:
	
	NumSources: The number of entries of IGMP_MIB_GROUP_SOURCE_INFO_V3.
	
	Sources: The IGMP_MIB_GROUP_SOURCE_INFO_V3 structure.
	
	Changed to:
	
	NumSources: The number of entries of IGMP_MIB_GROUP_SOURCE_INFO_V3.
	Sources: The IGMP_MIB_GROUP_SOURCE_INFO_V3 structure (section 2.2.1.2.179).
	
	6 Appendix A: Full IDL, moved location of struct IGMP_MIB_GROUP_SOURCE_INFO_V3 to before struct IGMP_MIB_GROUP_INFO_V3.
	
	Changed from:
	
	typedef struct _IPRIP_PEER_STATS {
	
	DWORD PS_LastPeerRouteTag;
	
	DWORD PS_LastPeerUpdateTickCount;
	
	DWORD PS_LastPeerUpdateVersion;
	
	DWORD PS_BadResponsePacketsFromPeer;
	
	DWORD PS_BadResponseEntriesFromPeer;
	
	} IPRIP_PEER_STATS, *PIPRIP_PEER_STATS;
	
	typedef struct _IGMP_MIB_GROUP_SOURCE_INFO_V3 {
	
	DWORD Source;
	
	DWORD SourceExpiryTime; //not valid for exclusion mode
	
	DWORD SourceUpTime;

	DWORD Flags;
	} IGMP_MIB_GROUP_SOURCE_INFO_V3, *PIGMP_MIB_GROUP_SOURCE_INFO_V3;
	typedef struct _IGMP_MIB_GET_INPUT_DATA {
	DWORD TypeId;
	USHORT Flags;
	USHORT Signature;
	DWORD IfIndex;
	DWORD RasClientAddr;
	DWORD GroupAddr;
	DWORD Count;
	} IGMP_MIB_GET_INPUT_DATA, *PIGMP_MIB_GET_INPUT_DATA;
	Changed to:
	typedef struct _IGMP_MIB_GROUP_IFS_LIST {
	DWORD GroupAddr;
	DWORD NumInterfaces;
	BYTE Buffer[1];
	} IGMP_MIB_GROUP_IFS_LIST, *PIGMP_MIB_GROUP_IFS_LIST;
	typedef struct _IGMP_MIB_GROUP_SOURCE_INFO_V3 {
	DWORD Source;
	DWORD SourceExpiryTime; //not valid for exclusion mode
	DWORD SourceUpTime;
	DWORD Flags;
	} IGMP_MIB_GROUP_SOURCE_INFO_V3, *PIGMP_MIB_GROUP_SOURCE_INFO_V3;
	typedef struct _IGMP_MIB_GROUP_INFO_V3

```
{
   union {
      DWORD       IfIndex;
      DWORD      GroupAddr;
   };
   DWORD      IpAddr;
   DWORD      GroupUpTime;
   DWORD      GroupExpiryTime;
   DWORD      LastReporter;
   DWORD      V1HostPresentTimeLeft;
   DWORD      Flags;
   //v3 additions
   DWORD      Version; //1/2/3
   DWORD      Size;   //size of this struct
   DWORD      FilterType;//EXCLUSION/INCLUSION
   DWORD      V2HostPresentTimeLeft;
   DWORD      NumSources;
   //IGMP_MIB_GROUP_SOURCE_INFO_V3      Sources[0];
} IGMP_MIB_GROUP_INFO_V3, *PIGMP_MIB_GROUP_INFO_V3;
```

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