

[MS-RRASM]: Routing and Remote Access Server (RRAS) Management Protocol

This topic lists the Errata found in [MS-RRASM] since it was last published. Since this topic is updated frequently, we recommend that you subscribe to these RSS or Atom feeds to receive update notifications.



Errata are subject to the same terms as the Open Specifications documentation referenced.

Errata below are for Protocol Document Version [V23.0 – 2018/09/12](#).

Errata Published *	Description
2019/10/28	<p>In Section 2.2.1.2.45, MIB_IPMCAST_OIF_STATS, changed dwIfNextHopIPAddr to dwNextHopAddr in the dwNextHopAddr field description.</p> <p>Changed from:</p> <p>...</p> <p>dwNextHopAddr: Specifies the address of the next hop that corresponds to dwOutIfIndex. The dwOutIfIndex and dwIfNextHopIPAddr members uniquely identify a next hop on point-to-multipoint interfaces, where one interface connects to multiple networks. Examples of point-to-multipoint interfaces include non-broadcast multiple-access (NBMA) interfaces, and the internal interface on which all dial-up clients connect. For Ethernet and other broadcast interfaces, specify zero (0). Also specify zero (0) for point-to-point interfaces, which are identified by only dwOutIfIndex.</p> <p>...</p> <p>Changed to:</p> <p>...</p> <p>dwNextHopAddr: Specifies the address of the next hop that corresponds to dwOutIfIndex. The dwOutIfIndex and dwNextHopAddr members uniquely identify a next hop on point-to-multipoint interfaces, where one interface connects to multiple networks. Examples of point-to-multipoint interfaces include non-broadcast multiple-access (NBMA) interfaces, and the internal interface on which all dial-up clients connect. For Ethernet and other broadcast interfaces, specify zero (0). Also specify zero (0) for point-to-point interfaces, which are identified by only dwOutIfIndex.</p> <p>...</p> <p>In Section 2.2.1.2.130, PPP_PROJECTION_INFO_1, changed dwAuthenticatedData to dwAuthenticationData in the dwAuthenticationData field description.</p> <p>Changed from:</p> <p>...</p> <p>dwAuthenticationData: The same as dwAuthenticatedData in PPP_LCP_INFO.</p> <p>...</p> <p>Changed to:</p> <p>...</p> <p>dwAuthenticationData: The same as dwAuthenticationData in PPP_LCP_INFO (see section 2.2.1.2.71).</p> <p>...</p>

Errata Published *	Description								
	<p>In Section 2.2.1.2.176, IGMP_MIB_GROUP_INFO, changed interface types RAS_SERVER to IGMP_IF_RAS_SERVER and RAS_CLIENT to IGMP_IF_RAS_CLIENT.</p> <p>Changed from:</p> <p>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.</p> <p>...</p> <p>Changed to:</p> <p>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.</p> <p>...</p> <p>In Section 2.2.1.2.181, IP_NAT_MIB_QUERY, changed instances of RMIBGetEntryFirst to RMIBEntryGetFirst.</p> <p>Changed from:</p> <p>The IP_NAT_MIB_QUERY structure is used to retrieve Network Address Translator (NAT) information and is passed to the following methods:</p> <ul style="list-style-type: none"> • RMIBEntryGet (section 3.1.4.30) • RMIBGetEntryFirst (section 3.1.4.31) • RMIBEntryGetNext (section 3.1.4.32) <p>....</p> <p>Oid: This is an index of the NAT MIB. It MUST be one of the following values.</p> <table border="1" data-bbox="402 1409 1395 1858"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>IP_NAT_INTERFACE_STATISTICS_OID 0x00000000</td> <td>NAT interface statistics information is retrieved. When RMIBEntryGet, RMIBGetEntryFirst, and RMIBEntryGetNext return pMibOutEntry or pInfoStruct it MUST be typecast to IP_NAT_INTERFACE_STATISTICS (section 2.2.1.2.185).</td> </tr> <tr> <td>IP_NAT_INTERFACE_MAPPING_TABLE_OID 0x00000001</td> <td>NAT interface mapping table information. When RMIBEntryGet, RMIBGetEntryFirst, and RMIBEntryGetNext return pMibOutEntry or pInfoStruct it MUST be typecast to IP_NAT_ENUMERATE_SESSION_MAPPINGS (section 2.2.1.2.183).</td> </tr> <tr> <td>IP_NAT_MAPPING_TABLE_OID 0x00000002</td> <td>NAT mapping table information. Retrieves the session mappings of an interface. When RMIBEntryGet, RMIBGetEntryFirst, and RMIBEntryGetNext return pMibOutEntry or pInfoStruct it</td> </tr> </tbody> </table>	Value	Meaning	IP_NAT_INTERFACE_STATISTICS_OID 0x00000000	NAT interface statistics information is retrieved. When RMIBEntryGet , RMIBGetEntryFirst , and RMIBEntryGetNext return pMibOutEntry or pInfoStruct it MUST be typecast to IP_NAT_INTERFACE_STATISTICS (section 2.2.1.2.185).	IP_NAT_INTERFACE_MAPPING_TABLE_OID 0x00000001	NAT interface mapping table information. When RMIBEntryGet , RMIBGetEntryFirst , and RMIBEntryGetNext return pMibOutEntry or pInfoStruct it MUST be typecast to IP_NAT_ENUMERATE_SESSION_MAPPINGS (section 2.2.1.2.183).	IP_NAT_MAPPING_TABLE_OID 0x00000002	NAT mapping table information. Retrieves the session mappings of an interface. When RMIBEntryGet , RMIBGetEntryFirst , and RMIBEntryGetNext return pMibOutEntry or pInfoStruct it
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	<ul style="list-style-type: none"> • If the RRAS server completes the processing successfully, it MUST return either ERROR_SUCCESS, ERROR_SUCCESS_REBOOT_REQUIRED<321>, or ERROR_RESTART_REQUIRED<322> based on the impact of the configuration change. Otherwise return the error status. <p>...</p> <p>In Section 3.4.4.5 RasRpcSubmitRequest (Opnum 12), changed instances of GetDevConfig to GetDevConfigStruct when describing client behavior for the ReqType REQTYPE_GETDEVCONFIG.</p> <p>Changed from:</p> <p>...</p> <p>REQTYPE_GETDEVCONFIG</p> <p>Before calling the method, the client MUST set the GetDevConfig.size value to the size of the GetDevConfig.config buffer.</p> <p>If the returned GetDevConfig.retcode is set to ERROR_BUFFER_TOO_SMALL (0x0000025B), the buffer that was passed in was not big enough to hold the device configuration information. The client SHOULD again call the API with GetDevConfig.size set to the size of returned GetDevConfig.size.</p> <p>...</p> <p>Changed to:</p> <p>...</p> <p>REQTYPE_GETDEVCONFIG</p> <p>Before calling the method, the client MUST set the GetDevConfigStruct.size value to the size of the GetDevConfigStruct.config buffer.</p> <p>If the returned GetDevConfigStruct.retcode is set to ERROR_BUFFER_TOO_SMALL (0x0000025B), the buffer that was passed in was not big enough to hold the device configuration information. The client SHOULD again call the API with GetDevConfigStruct.size set to the size of returned GetDevConfigStruct.size.</p> <p>...</p> <p>In Section 7, Appendix B: Product Behavior, changed the return value ERROR_REBOOT_REQUIRED to ERROR_SUCCESS_REBOOT_REQUIRED in product behavior note <316> when the configuration change requires a reboot of the machine for the settings to be applied.</p> <p>Changed from:</p> <p><316> Section 3.1.4.44: Windows will return the error value ERROR_REBOOT_REQUIRED when the configuration change requires a reboot of the machine for the settings to be applied. One such implementation requirement is when the number of ports configured is more than the maximum number of ports that the tunneling protocols are configured to support initially.</p> <p>Changed to:</p> <p><316> Section 3.1.4.44: Windows will return the error value ERROR_SUCCESS_REBOOT_REQUIRED when the configuration change requires a reboot of the machine for the settings to be applied. One such implementation requirement is when the number of ports configured is more than the maximum number of ports that the tunneling protocols are configured to support initially.</p> <p>In this document, numerous editorial fixes have also been made, e.g., changed instances of "Ipv6" and "IPv6" to "IPV6"; changed instances of "GetDevConfig" to "GetDevConfigStruct";</p>

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	<p>updated hexadecimal syntax to USHORT 16-bit format; and also added section numbers to programming elements where applicable.</p> <p>Sections updated:</p> <p>2.2.1.2.103 2.2.1.2.104 2.2.1.2.134 2.2.1.2.136 2.2.1.2.156 2.2.1.2.158 2.2.2.2.79 2.2.5.1.1 3.1.4.30 3.1.4.31 3.1.4.33 3.1.4.38 3.1.4.44 3.3.4.5</p> <p>7 - the following product behavior notes were updated:</p> <p><266> <268> <272> <290> <293> <298> <305></p>														
2019/10/28	<p>In Section 2.2.1.2.37 MIB_IPMCAST_BOUNDARY, added names of dwStatus values in the table.</p> <p>Changed from:</p> <p>dwStatus: A status value that describes the current status of this entry in a multicast forwarding entry (MFE) boundary table.</p> <table border="0"> <thead> <tr> <th data-bbox="378 1415 440 1436">Value</th> <th data-bbox="529 1415 618 1436">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="378 1482 516 1503">0x00000001</td> <td data-bbox="529 1482 867 1503">The entry has an active status.</td> </tr> <tr> <td data-bbox="378 1549 516 1570">0x00000002</td> <td data-bbox="529 1549 924 1570">The entry has a notInService status.</td> </tr> <tr> <td data-bbox="378 1617 516 1638">0x00000003</td> <td data-bbox="529 1617 889 1638">The entry has a notReady status.</td> </tr> <tr> <td data-bbox="378 1684 516 1705">0x00000004</td> <td data-bbox="529 1684 927 1705">The entry has a createAndGo status.</td> </tr> <tr> <td data-bbox="378 1751 516 1772">0x00000005</td> <td data-bbox="529 1751 946 1772">The entry has a createAndWait status.</td> </tr> <tr> <td data-bbox="378 1782 516 1803">0x00000006</td> <td data-bbox="529 1782 870 1803">The entry has a destroy status.</td> </tr> </tbody> </table> <p>Changed to:</p>	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.
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	<p>0x00000004 IPX service table. See IPX_SERVICE (section 2.2.1.2.121).</p> <p>IPX_STATIC_SERV_TABLE</p> <p>0x00000005 IPX static service table. See IPX_STATIC_SERVICE_INFO (section 2.2.1.2.95).</p> <p>Changed to: TableId: Specifies the type of table. Values MUST be one of the following values.</p> <table border="0"> <thead> <tr> <th data-bbox="375 569 440 590">Value</th> <th data-bbox="505 569 594 590">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 638 570 659">IPX_BASE_ENTRY</td> <td></td> </tr> <tr> <td data-bbox="375 707 1081 728">0x00000000</td> <td data-bbox="532 707 1081 728">IPX base. See IPXMIB_BASE (section 2.2.1.2.106).</td> </tr> <tr> <td data-bbox="375 774 631 795">IPX_INTERFACE_TABLE</td> <td></td> </tr> <tr> <td data-bbox="375 844 1200 865">0x00000001</td> <td data-bbox="532 844 1200 865">IPX interface table. See IPX_INTERFACE (section 2.2.1.2.108).</td> </tr> <tr> <td data-bbox="375 911 570 932">IPX_DEST_TABLE</td> <td></td> </tr> <tr> <td data-bbox="375 980 1183 1001">0x00000002</td> <td data-bbox="532 980 1183 1001">IPX destination table. See IPX_ROUTE (section 2.2.1.2.109).</td> </tr> <tr> <td data-bbox="375 1047 675 1068">IPX_STATIC_ROUTE_TABLE</td> <td></td> </tr> <tr> <td data-bbox="375 1117 1349 1138">0x00000003</td> <td data-bbox="532 1117 1349 1138">IPX Static Route Table. See IPX_STATIC_ROUTE_INFO (section 2.2.1.2.93).</td> </tr> <tr> <td data-bbox="375 1184 570 1205">IPX_SERV_TABLE</td> <td></td> </tr> <tr> <td data-bbox="375 1253 1162 1274">0x00000004</td> <td data-bbox="532 1253 1162 1274">IPX service table. See IPX_SERVICE (section 2.2.1.2.120).</td> </tr> <tr> <td data-bbox="375 1320 659 1341">IPX_STATIC_SERV_TABLE</td> <td></td> </tr> <tr> <td data-bbox="375 1352 1373 1373">0x00000005</td> <td data-bbox="532 1352 1373 1373">IPX static service table. See IPX_STATIC_SERVICE_INFO (section 2.2.1.2.94).</td> </tr> <p data-bbox="375 1419 1362 1493">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.</p> <p data-bbox="375 1539 1419 1717">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.</p> <p data-bbox="375 1761 1419 1890">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</p> </tbody></table>	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).
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0x00000005	IPX static service table. See IPX_STATIC_SERVICE_INFO (section 2.2.1.2.94).																										

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	<p>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.</p> <p>Section 2.2.1.2.178 IGMP_MIB_IF_STATS, in the LastQuerierChangeTime description changed member name from igmpInterfaceQuerier to QuerierIpAddr.</p> <p>Changed from:</p> <p>LastQuerierChangeTime: The number of seconds since igmpInterfaceQuerier was last changed.</p> <p>Changed to:</p> <p>LastQuerierChangeTime: The number of seconds since QuerierIpAddr was last changed.</p> <p>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.</p> <p>Changed from:</p> <p>(missing section)</p> <p>Changed to:</p> <p>The IGMP_MIB_GROUP_SOURCE_INFO_V3 structure provides information about each source IP endpoint.</p> <pre>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;</pre> <p>Source: IP endpoint address of a source.</p> <p>SourceExpiryTime: The time, in seconds, that remains before source expires. Not valid for exclusion mode.</p> <p>SourceUpTime: The time, in seconds since the source was up.</p> <p>Flags: Reserved. This is unused and SHOULD be NULL, or MAY be set to 0x00000000.</p> <p>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.</p>

Errata Published *	Description
	<p>Changed from:</p> <p>NumSources: The number of entries of IGMP_MIB_GROUP_SOURCE_INFO_V3.</p> <p>Sources: The IGMP_MIB_GROUP_SOURCE_INFO_V3 structure.</p> <p>Changed to:</p> <p>NumSources: The number of entries of IGMP_MIB_GROUP_SOURCE_INFO_V3.</p> <p>Sources: The IGMP_MIB_GROUP_SOURCE_INFO_V3 structure (section 2.2.1.2.179).</p> <p>6 Appendix A: Full IDL, moved location of struct IGMP_MIB_GROUP_SOURCE_INFO_V3 to before struct IGMP_MIB_GROUP_INFO_V3.</p> <p>Changed from:</p> <pre> 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; </pre>

Errata Published *	Description
	<pre> 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; </pre>

Errata Published *	Description
	<pre> }; 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; </pre>

*Date format: YYYY/MM/DD