

Changes to Def Stan 00-82 Issue 1 from Interim version published in August 2009

Part number	Page number	Section	Change description
0	3	4.1	Definitions added for channel, primary interface and secondary interface.
0	12	6.2.2.2	Guidance added on implementing Link Aggregation.
0	13	6.3.1.1	Guidance and an example added on IP address allocation when the device incorporates multiple Ethernet interfaces (using primary and secondary Ethernet interfaces). Specifies that all SNMP messaging to be undertaken using the primary interface.
0	20	6.5.3.5	Figure 5 updated to reflect that the MIB has a DE&S PEN and is no longer categorised as experimental.
0	21	6.6	Guidance added on the video encoding standards used.
0	22	6.7	Guidance added on the video compression standards used.
0	24	7.1	Deleted the description of network switch DHCP behaviour.
1	4	4.1	Definitions added for channel, primary interface and secondary interface.
1	10	7.1.1	Paragraph added defining primary and secondary Ethernet interfaces defining behaviour when a device incorporates multiple Ethernet interfaces and that all SNMP messaging to be undertaken using the primary interface.
1	10	7.1.2	DHCP deleted as is no longer a requirement because it was difficult to define a mechanism to allow IP addresses to be correctly allocated to service providers and users from the range of IP addresses specified in section 7.1.1 of the standard.
1	14	10.2	Text added to clarified the behaviour of sessions when the video format being streamed is modified or stopped.
1	15	10.4	Clarification added that SDP payload encryption and compression shall not be used.
1	15	10.4	A requirement added that the Message ID Hash shall be derived from the <session version> parameter in the SDP payload, how it is used and a reference to the behaviour specified in RFC 2974.
1	16	10.5	A section added providing generic descriptions for the SDP payload fields.
1	16	10.5	Detail added to clarify how the <session id> is generated.
1	17	10.5	Detail added to clarify how the <session version> is generated and how the SAP Message ID Hash is derived from it. Also limit when the current session value is modified to image size changes only (e.g. for a ROI).
1	17	10.5	Deleted the requirement to append the <session name> with a index derived from the last byte of the device's IP address. The descriptions for the <deviceUserDesc> and <channelUserDesc> objects in the MIB have been edited to correct errors and include a suggestion to combine the two objects to form the SDP <session name>. An example has also been added.
1	18	10.5	A <framerate> attribute added at the end of the SDP payload.
1	19	11.1	A section added to profile the SNMP message types required in the standard so that only the simplest message types (GetRequest, GetNextRequest, SetRequest and GetResponse) are mandatory.
1	20	11.1.1	A section added on the SNMP message error handling behaviour including a <genError> error status response when an agent does not implement a particular SNMP message type.
1	22	11.2.2	Clarification added on how the <videoFormat> table information table is used in the MIB.
1	22	11.2.3	Clarification added on how the <channelControl> table information table is used in the MIB.
1	25	A.2	A MacAddress textual convention import from SNMPv2-TC added.
1	25	A.2	Contact details in the <vivoeMIB> module identity changed to DE&S.
1	25	A.2	Textual convention definitions for 16, 32 and 64 character strings added.
1	26	A.2	<desle> OID updated to reflect the DE&S PEN (35990). Note: this affects the numbering of the succeeding OIDs.

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1	26	A.2	<desleProducts> OID updated to reflect that the MIB is no longer categorised as experimental. Note: this affects the numbering of the succeeding OIDs.
1	26	A.2	<vivoeDeviceInfo> OID renamed <deviceInfo>.
1	26	A.2	Length of <deviceDesc> object limited to 32 characters from 255.
1	26	A.2	Length of <deviceManufacturer> object limited to 64 characters from 255.
1	26	A.2	Length of <devicePartNumber> object limited to 32 characters from 255.
1	26	A.2	Length of <deviceSerialNumber> object limited to 32 characters from 255.
1	27	A.2	Objects for hardware, software and firmware version added. All use 16 character strings. Note: this affects the numbering of the succeeding OIDs.
1	27	A.2	<deviceMibVersion> object for MIB version added. Note: this affects the numbering of the succeeding OIDs.
1	27	A.2	A read/writable <deviceUserDesc> object added that can be used to store a description or location of the device. Note: this affects the numbering of the succeeding OIDs.
1	28	A.2	A read only <ethernetIfNumber> object added to store how many Ethernet interfaces are present on the device. Note: this affects the numbering of the succeeding OIDs.
1	28	A.2	A table (<ethernetIfTable>) added to allow information about more than one Ethernet interfaces to be stored in the MIB. Also added <ethernetIfNumber> and <ethernetIfIndex> to support the table functionality.
1	29	A.2	A read only <ethernetIfSpeed> object added for each Ethernet interface on the device. Note: this affects the numbering of the succeeding OIDs.
1	29	A.2	The syntax of the <ethernetIfMacAddress> changed to a MacAddress type.
1	29	A.2	The description of the <ethernetIfIpAddress> has been edited to reflect the deletion of DHCP and the concept of primary and secondary interfaces.
1	30	A.2	Deleted the <ethernetIfDhcpEnabled> object. Note: this affects the numbering of the succeeding OIDs.
1	30	A.2	<vivoeVideoFormatInfo> OID renamed <videoFormatInfo>.
1	30	A.2	<videoFormatInfoTable> OID renamed <videoFormatTable>.
1	30	A.2	<videoFormatInfoEntry> OID renamed <videoFormatEntry>.
1	31	A.2	<videoFormatIndex> object access changed to not-accessible.
1	31	A.2	<videoFormatType> object (read-only) added to the video format table to specify the main function of the format. Note: this affects the numbering of the succeeding OIDs.
1	31	A.2	<videoFormatStatus> object added to the video format table to specify whether the device needs to be reset or rebooted to use the video format described in the format entry in the table. Note: this affects the numbering of the succeeding OIDs.
1	32	A.2	<videoFormatBaseFormat> object renamed <videoFormatBase> and limited to 16 characters from 31.
1	32	A.2	<videoFormatVideoEncoding> object renamed <videoFormatSampling> and limited to 16 characters from 31.
1	32	A.2	<videoFormatBitDepth> object access changed to read-only.
1	33	A.2	<videoFormatFps> object added to the video format table to specify the frames per second for the format entry in the table. Note: this affects the numbering of the succeeding OIDs.
1	33	A.2	<vivoeChannelControl> OID renamed <channelControl>.
1	33	A.2	<channelReset> object added to the channel control section to allow a reset or reboot on the device to be initiated by an SNMP manager. Note: this affects the numbering of the succeeding OIDs.
1	34	A.2	<channelControlTable> OID renamed <channelTable>.
1	34	A.2	<channelControlEntry> OID renamed <channelEntry>.
1	35	A.2	<channelIndex> object access changed to not-accessible.

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1	36	A.2	<channelUserDesc> object added to the channel control table. This can be used to store a description or location of the device using that channel. Note: this affects the numbering of the succeeding OIDs.
1	36	A.2	<channelVideoFormatIndex> object added to the channel control table. This allows a video format to be selected for the channel by simply setting this object to the corresponding value of the <videoFormatIndex> object in the video format table. Note: this affects the numbering of the succeeding OIDs.
1	36	A.2	<channelVideoFormat> object length limited to 16 characters from 31.
1	37	A.2	<channelVideoEncoding> object renamed to <channelVideoSampling> and limited to 16 characters from 31.
1	37	A.2	Changed the access of the <channelVideoFormat>, <channelVideoSampling>, <channelVideoBitDepth> and <channelInterlaced> objects to read only, as these are now updated automatically to reflect the values in the corresponding objects in the video format information table when the <channelVideoFormatIndex> object is changed.
1	37	A.2	<channelFps> object added to the channel control table, which is updated automatically to reflect the corresponding object in the video format information table when the <channelVideoFormatIndex> object is changed. Note: this affects the numbering of the succeeding OIDs.
1	38	A.2	<channelCompressionRate> object syntax range deleted to allow higher compression rates.
1	38	A.2	<channelHorzRes> and <channelVertRes> object descriptions changed to clarify the behaviour of the objects when used to control a ROI channel.
1	39	A.2	<channelRtpPt> object access changed to read-only, as this is only set by the device, not an SNMP manager.
1	40	A.2	<vivoeConformance> OID renamed <conformanceGroups>. Conformance objects also updated to reflect the changes in the rest of the MIB.
1	42	B, C & D	Add descriptions to cover all the RTP header fields and SDP parameters etc. in all of the examples.
1	42	B.1.1	Added a section clarifying the scan line numbering schemes to be used for SD, HD and computer display monitor formats (XGA, SXGA etc).
1	43	B.1.2	Added a section detailing how the various scan line packetisation schemes specified in RFC 4175 can be used in conjunction with the Continuation and Line Offsets fields in the RTP payload header.
1	49	B.3.1	Line Offset values in the RGB example corrected.
1	51	B.4	New section added to show an example for encoding SXGA video.
1	56	B.5.1	Figure 11 corrected to match RFC 4175.
1	60	C.2	Reference to draft JPEG 2000 RTP payload standard replaced with RFC 5371.
1	70	E.3.1	Changed the option of including video payload data in a packet containing header extension metadata from "should not" to "may".
1	71	E.3.1	Clarified that the header extension metadata is counted in 32-bit words and excludes the header extension type and length fields.