

[MS-RDPECAM]: Remote Desktop Protocol: Video Capture Virtual Channel Extension

This topic lists the Errata found in [MS-RDPECAM] 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 [V1.0 – 2018/09/12](#).

Errata Published*	Description				
2019/02/19	<p>In Section 4.6.2, Property List Response, an annotated dump of a Property List Response (section 2.2.3.17) has been added.</p> <p>Added: The following is an annotated dump of a Property List Response (section 2.2.3.17).</p> <pre> 00000000 02 15 01 02 03 00 00 00 00 fa 00 00 00 05 00 00 00000010 00 00 00 00 00 02 02 01 00 00 00 00 ff 00 00 00 00000020 01 00 00 00 80 00 00 00 02->SHARED_MSG_HEADER::Version = 2 15->SHARED_MSG_HEADER::MessageId = PropertyListResponse(21) 01->PropertyDescription[0]::PropertySet = CameraControl(1) 02->PropertyDescription[0]::PropertyId = Focus(2) 03->PropertyDescription[0]::Capabilities = Manual and Auto(1 + 2) 00 00 00 00->PropertyDescription[0]::MinValue = 0 fa 00 00 00->PropertyDescription[0]::MaxValue = 250 05 00 00 00->PropertyDescription[0]::Step = 5 00 00 00 00->PropertyDescription[0]::DefaultValue = 0 02->PropertyDescription[1]::PropertySet = VideoProcAmp(2) 02->PropertyDescription[1]::PropertyId = Brightness(2) 01->PropertyDescription[1]::Capabilities = Manual(1) 00 00 00 00->PropertyDescription[1]::MinValue = 0 ff 00 00 00->PropertyDescription[1]::MaxValue = 255 01 00 00 00->PropertyDescription[1]::Step = 1 80 00 00 00->PropertyDescription[1]::DefaultValue = 128 </pre>				
2019/02/19	<p>In Section 2.2.1, Shared Message Header (SHARED_MSG_HEADER), updated values to hexadecimal format for consistency in the MessageId field table.</p> <p>Changed from: ...</p> <p>MessageId (1 byte): An 8-bit unsigned integer that specifies the type of the message.</p> <table border="1" data-bbox="516 1703 1414 1822"> <thead> <tr> <th data-bbox="516 1703 971 1753">Value</th> <th data-bbox="971 1703 1414 1753">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1753 971 1822">SuccessResponse 1</td> <td data-bbox="971 1753 1414 1822">A Success Response (section 2.2.3.1) message.</td> </tr> </tbody> </table>	Value	Meaning	SuccessResponse 1	A Success Response (section 2.2.3.1) message.
Value	Meaning				
SuccessResponse 1	A Success Response (section 2.2.3.1) message.				

Errata Published*	Description	
	ErrorResponse 2	An Error Response (section 2.2.3.2) message.
	SelectVersionRequest 3	A Select Version Request (section 2.2.2.1) message.
	SelectVersionResponse 4	A Select Version Response (section 2.2.2.2) message.
	DeviceAddedNotification 5	A Device Added Notification (section 2.2.2.3) message.
	DeviceRemovedNotification 6	A Device Removed Notification (section 2.2.2.4) message.
	ActivateDeviceRequest 7	An Activate Device Request (section 2.2.3.3) message.
	DeactivateDeviceRequest 8	A Deactivate Device Request (section 2.2.3.4) message.
	StreamListRequest 9	A Stream List Request (section 2.2.3.5) message.
	StreamListResponse 10	A Stream List Response (section 2.2.3.6) message.
	MediaTypeListRequest 11	A Media Type List Request (section 2.2.3.7) message.
	MediaTypeListResponse 12	A Media Type List Response (section 2.2.3.8) message.
	CurrentMediaTypeRequest 13	A Current Media Type Request (section 2.2.3.9) message.
	CurrentMediaTypeResponse 14	A Current Media Type Response (section 2.2.3.10) message.
	StartStreamsRequest 15	A Start Streams Request (section 2.2.3.11) message.
	StopStreamsRequest 16	A Stop Streams Request (section 2.2.3.12) message.
	SampleRequest 17	A Sample Request (section 2.2.3.13) message.
	SampleResponse 18	A Sample Response (section 2.2.3.14) message.
	SampleErrorResponse 19	A Sample Error Response (section 2.2.3.15) message.
	PropertyListRequest 20	A Property List Request (section 2.2.3.16) message. This message is supported only by version 2 of the protocol.
	PropertyListResponse 21	A Property List Response (section 2.2.3.17) message. This message is supported only by version 2 of the protocol.

Errata Published*	Description																													
	PropertyValueRequest 22	A Property Value Request (section 2.2.3.18) message. This message is supported only by version 2 of the protocol.																												
	PropertyValueResponse 23	A Property Value Response (section 2.2.3.19) message. This message is supported only by version 2 of the protocol.																												
	SetPropertyValueRequest 24	A Set Property Value Request (section 2.2.3.20) message. This message is supported only by version 2 of the protocol.																												
	<p>Changed to:</p> <p>...</p> <p>MessageId (1 byte): An 8-bit unsigned integer that specifies the type of the message.</p>																													
	<table border="1"> <thead> <tr> <th data-bbox="487 798 966 850">Value</th> <th data-bbox="966 798 1430 850">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="487 850 966 924">SuccessResponse 0x01</td> <td data-bbox="966 850 1430 924">A Success Response (section 2.2.3.1) message.</td> </tr> <tr> <td data-bbox="487 924 966 997">ErrorResponse 0x02</td> <td data-bbox="966 924 1430 997">An Error Response (section 2.2.3.2) message.</td> </tr> <tr> <td data-bbox="487 997 966 1071">SelectVersionRequest 0x03</td> <td data-bbox="966 997 1430 1071">A Select Version Request (section 2.2.2.1) message.</td> </tr> <tr> <td data-bbox="487 1071 966 1144">SelectVersionResponse 0x04</td> <td data-bbox="966 1071 1430 1144">A Select Version Response (section 2.2.2.2) message.</td> </tr> <tr> <td data-bbox="487 1144 966 1218">DeviceAddedNotification 0x05</td> <td data-bbox="966 1144 1430 1218">A Device Added Notification (section 2.2.2.3) message.</td> </tr> <tr> <td data-bbox="487 1218 966 1291">DeviceRemovedNotification 0x06</td> <td data-bbox="966 1218 1430 1291">A Device Removed Notification (section 2.2.2.4) message.</td> </tr> <tr> <td data-bbox="487 1291 966 1365">ActivateDeviceRequest 0x07</td> <td data-bbox="966 1291 1430 1365">An Activate Device Request (section 2.2.3.3) message.</td> </tr> <tr> <td data-bbox="487 1365 966 1438">DeactivateDeviceRequest 0x08</td> <td data-bbox="966 1365 1430 1438">A Deactivate Device Request (section 2.2.3.4) message.</td> </tr> <tr> <td data-bbox="487 1438 966 1512">StreamListRequest 0x09</td> <td data-bbox="966 1438 1430 1512">A Stream List Request (section 2.2.3.5) message.</td> </tr> <tr> <td data-bbox="487 1512 966 1585">StreamListResponse 0x0A</td> <td data-bbox="966 1512 1430 1585">A Stream List Response (section 2.2.3.6) message.</td> </tr> <tr> <td data-bbox="487 1585 966 1659">MediaTypeListRequest 0x0B</td> <td data-bbox="966 1585 1430 1659">A Media Type List Request (section 2.2.3.7) message.</td> </tr> <tr> <td data-bbox="487 1659 966 1732">MediaTypeListResponse 0x0C</td> <td data-bbox="966 1659 1430 1732">A Media Type List Response (section 2.2.3.8) message.</td> </tr> <tr> <td data-bbox="487 1732 966 1848">CurrentMediaTypeRequest 0x0D</td> <td data-bbox="966 1732 1430 1848">A Current Media Type Request (section 2.2.3.9) message.</td> </tr> </tbody> </table>		Value	Meaning	SuccessResponse 0x01	A Success Response (section 2.2.3.1) message.	ErrorResponse 0x02	An Error Response (section 2.2.3.2) message.	SelectVersionRequest 0x03	A Select Version Request (section 2.2.2.1) message.	SelectVersionResponse 0x04	A Select Version Response (section 2.2.2.2) message.	DeviceAddedNotification 0x05	A Device Added Notification (section 2.2.2.3) message.	DeviceRemovedNotification 0x06	A Device Removed Notification (section 2.2.2.4) message.	ActivateDeviceRequest 0x07	An Activate Device Request (section 2.2.3.3) message.	DeactivateDeviceRequest 0x08	A Deactivate Device Request (section 2.2.3.4) message.	StreamListRequest 0x09	A Stream List Request (section 2.2.3.5) message.	StreamListResponse 0x0A	A Stream List Response (section 2.2.3.6) message.	MediaTypeListRequest 0x0B	A Media Type List Request (section 2.2.3.7) message.	MediaTypeListResponse 0x0C	A Media Type List Response (section 2.2.3.8) message.	CurrentMediaTypeRequest 0x0D	A Current Media Type Request (section 2.2.3.9) message.
Value	Meaning																													
SuccessResponse 0x01	A Success Response (section 2.2.3.1) message.																													
ErrorResponse 0x02	An Error Response (section 2.2.3.2) message.																													
SelectVersionRequest 0x03	A Select Version Request (section 2.2.2.1) message.																													
SelectVersionResponse 0x04	A Select Version Response (section 2.2.2.2) message.																													
DeviceAddedNotification 0x05	A Device Added Notification (section 2.2.2.3) message.																													
DeviceRemovedNotification 0x06	A Device Removed Notification (section 2.2.2.4) message.																													
ActivateDeviceRequest 0x07	An Activate Device Request (section 2.2.3.3) message.																													
DeactivateDeviceRequest 0x08	A Deactivate Device Request (section 2.2.3.4) message.																													
StreamListRequest 0x09	A Stream List Request (section 2.2.3.5) message.																													
StreamListResponse 0x0A	A Stream List Response (section 2.2.3.6) message.																													
MediaTypeListRequest 0x0B	A Media Type List Request (section 2.2.3.7) message.																													
MediaTypeListResponse 0x0C	A Media Type List Response (section 2.2.3.8) message.																													
CurrentMediaTypeRequest 0x0D	A Current Media Type Request (section 2.2.3.9) message.																													

Errata Published*	Description							
	CurrentMediaTypeResponse 0x0E	A Current Media Type Response (section 2.2.3.10) message.						
	StartStreamsRequest 0x0F	A Start Streams Request (section 2.2.3.11) message.						
	StopStreamsRequest 0x10	A Stop Streams Request (section 2.2.3.12) message.						
	SampleRequest 0x11	A Sample Request (section 2.2.3.13) message.						
	SampleResponse 0x12	A Sample Response (section 2.2.3.14) message.						
	SampleErrorResponse 0x13	A Sample Error Response (section 2.2.3.15) message.						
	PropertyListRequest 0x14	A Property List Request (section 2.2.3.16) message. This message is supported only by version 2 of the protocol.						
	PropertyListResponse 0x15	A Property List Response (section 2.2.3.17) message. This message is supported only by version 2 of the protocol.						
	PropertyValueRequest 0x16	A Property Value Request (section 2.2.3.18) message. This message is supported only by version 2 of the protocol.						
	PropertyValueResponse 0x17	A Property Value Response (section 2.2.3.19) message. This message is supported only by version 2 of the protocol.						
	SetPropertyValueRequest 0x18	A Set Property Value Request (section 2.2.3.20) message. This message is supported only by version 2 of the protocol.						
	<p>In Section 2.2.3.2, Error Response, updated values to hexadecimal format for consistency in the ErrorCode field table.</p> <p>Changed from:</p> <p>...</p> <p>ErrorCode (4 bytes): A 32-bit unsigned integer containing an error code.</p> <table border="1" data-bbox="516 1648 1414 1879"> <thead> <tr> <th data-bbox="516 1648 966 1701">Value</th> <th data-bbox="966 1648 1414 1701">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1701 966 1753">UnexpectedError 1</td> <td data-bbox="966 1701 1414 1753">An unexpected error occurred.</td> </tr> <tr> <td data-bbox="516 1753 966 1879">InvalidMessage 2</td> <td data-bbox="966 1753 1414 1879">An invalid message was received. Either the message is malformed, or the protocol version or message type is unexpected.</td> </tr> </tbody> </table>		Value	Meaning	UnexpectedError 1	An unexpected error occurred.	InvalidMessage 2	An invalid message was received. Either the message is malformed, or the protocol version or message type is unexpected.
Value	Meaning							
UnexpectedError 1	An unexpected error occurred.							
InvalidMessage 2	An invalid message was received. Either the message is malformed, or the protocol version or message type is unexpected.							

Errata Published*	Description													
	NotInitialized 3	The object MUST be initialized before the requested operation can be carried out. This error could be returned, for example, when attempting to communicate with a deactivated camera device.												
	InvalidRequest 4	The request is invalid in the current state.												
	InvalidStreamNumber 5	The provided stream number was invalid.												
	InvalidMediaType 6	The data specified for the stream format is invalid, inconsistent, or not supported.												
	OutOfMemory 7	The client ran out of memory.												
	ItemNotFound 8	The device does not support the requested property. This error code is generated only by version 2 of the protocol.												
	SetNotFound 9	The device does not support the requested property set. This error code is generated only by version 2 of the protocol.												
	OperationNotSupported 10	The requested operation is not supported. This error code is generated only by version 2 of the protocol.												
	<p>Changed to: ...</p>													
	<p>ErrorCode (4 bytes): A 32-bit unsigned integer containing an error code.</p>													
	<table border="1"> <thead> <tr> <th data-bbox="487 1249 966 1312">Value</th> <th data-bbox="966 1249 1430 1312">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="487 1312 966 1354">UnexpectedError 0x00000001</td> <td data-bbox="966 1312 1430 1354">An unexpected error occurred.</td> </tr> <tr> <td data-bbox="487 1354 966 1480">InvalidMessage 0x00000002</td> <td data-bbox="966 1354 1430 1480">An invalid message was received. Either the message is malformed, or the protocol version or message type is unexpected.</td> </tr> <tr> <td data-bbox="487 1480 966 1659">NotInitialized 0x00000003</td> <td data-bbox="966 1480 1430 1659">The object MUST be initialized before the requested operation can be carried out. This error could be returned, for example, when attempting to communicate with a deactivated camera device.</td> </tr> <tr> <td data-bbox="487 1659 966 1743">InvalidRequest 0x00000004</td> <td data-bbox="966 1659 1430 1743">The request is invalid in the current state.</td> </tr> <tr> <td data-bbox="487 1743 966 1822">InvalidStreamNumber 0x00000005</td> <td data-bbox="966 1743 1430 1822">The provided stream number was invalid.</td> </tr> </tbody> </table>		Value	Meaning	UnexpectedError 0x00000001	An unexpected error occurred.	InvalidMessage 0x00000002	An invalid message was received. Either the message is malformed, or the protocol version or message type is unexpected.	NotInitialized 0x00000003	The object MUST be initialized before the requested operation can be carried out. This error could be returned, for example, when attempting to communicate with a deactivated camera device.	InvalidRequest 0x00000004	The request is invalid in the current state.	InvalidStreamNumber 0x00000005	The provided stream number was invalid.
Value	Meaning													
UnexpectedError 0x00000001	An unexpected error occurred.													
InvalidMessage 0x00000002	An invalid message was received. Either the message is malformed, or the protocol version or message type is unexpected.													
NotInitialized 0x00000003	The object MUST be initialized before the requested operation can be carried out. This error could be returned, for example, when attempting to communicate with a deactivated camera device.													
InvalidRequest 0x00000004	The request is invalid in the current state.													
InvalidStreamNumber 0x00000005	The provided stream number was invalid.													

Errata Published*	Description									
	InvalidMediaType 0x00000006	The data specified for the stream format is invalid, inconsistent, or not supported.								
	OutOfMemory 0x00000007	The client ran out of memory.								
	ItemNotFound 0x00000008	The device does not support the requested property. This error code is generated only by version 2 of the protocol.								
	SetNotFound 0x00000009	The device does not support the requested property set. This error code is generated only by version 2 of the protocol.								
	OperationNotSupported 0x0000000A	The requested operation is not supported. This error code is generated only by version 2 of the protocol.								
	<p>In Section 2.2.3.6.1, STREAM_DESCRIPTION, updated the value to hexadecimal format for consistency in the StreamCategory field table.</p> <p>Changed from:</p> <p>...</p> <p>StreamCategory (1 byte): An 8-bit unsigned integer that specifies the category of the stream.</p> <table border="1" data-bbox="516 1081 1417 1234"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>Capture 1</td> <td>Capture category streams provide a stream of compressed or uncompressed digital video.</td> </tr> </tbody> </table> <p>Changed to:</p> <p>...</p> <p>StreamCategory (1 byte): An 8-bit unsigned integer that specifies the category of the stream.</p> <table border="1" data-bbox="516 1402 1417 1556"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>Capture 0x01</td> <td>Capture category streams provide a stream of compressed or uncompressed digital video.</td> </tr> </tbody> </table> <p>In Section 2.2.3.8.1, MEDIA_TYPE_DESCRIPTION, updated values to hexadecimal format for consistency in the Format field table.</p> <p>Changed from:</p> <p>...</p> <p>Format (1 byte): An 8-bit unsigned integer that specifies the stream codec.</p>		Value	Meaning	Capture 1	Capture category streams provide a stream of compressed or uncompressed digital video.	Value	Meaning	Capture 0x01	Capture category streams provide a stream of compressed or uncompressed digital video.
Value	Meaning									
Capture 1	Capture category streams provide a stream of compressed or uncompressed digital video.									
Value	Meaning									
Capture 0x01	Capture category streams provide a stream of compressed or uncompressed digital video.									

Value	Meaning
H264 1	H.264 video as described in [ITU-H.264-201704]. Media samples contain H.264 bitstream data with start codes and interleaved sequence parameter set/picture parameter set (SPS/PPS) packets. Each sample contains one complete picture, either one field or one frame.
MJPG 2	Motion JPEG. Motion JPEG is a video compression format in which each video frame of a digital video sequence is independently compressed as a JPEG image.
YUY2 3	YUY2 video as specified in [MSDN-YUVFormats].
NV12 4	NV12 video as described in [MSDN-YUVFormats].
I420 5	I420 video. Identical to YV12 as described in [MSDN-YUVFormats] except that the order of the U and V planes is reversed.
RGB24 6	RGB, 24 bits per pixel.
RGB32 7	RGB, 32 bits per pixel.

...

Changed to:

...

Format (1 byte): An 8-bit unsigned integer that specifies the stream codec.

Value	Meaning
H264 0x01	H.264 video as described in [ITU-H.264-201704]. Media samples contain H.264 bitstream data with start codes and interleaved sequence parameter set/picture parameter set (SPS/PPS) packets. Each sample contains one complete picture, either one field or one frame.
MJPG 0x02	Motion JPEG. Motion JPEG is a video compression format in which each video frame of a digital video sequence is independently compressed as a JPEG image.
YUY2 0x03	YUY2 video as specified in [MSDN-YUVFormats].
NV12 0x04	NV12 video as described in [MSDN-YUVFormats].
I420 0x05	I420 video. Identical to YV12 as described in [MSDN-YUVFormats]

Errata Published*	Description																														
	<table border="1" data-bbox="516 241 1414 415"> <tr> <td data-bbox="516 241 964 310"></td> <td data-bbox="964 241 1414 310">except that the order of the U and V planes is reversed.</td> </tr> <tr> <td data-bbox="516 310 964 359">RGB24 0x06</td> <td data-bbox="964 310 1414 359">RGB, 24 bits per pixel.</td> </tr> <tr> <td data-bbox="516 359 964 415">RGB32 0x07</td> <td data-bbox="964 359 1414 415">RGB, 32 bits per pixel.</td> </tr> </table> <p data-bbox="500 436 522 451">...</p> <p data-bbox="500 527 1365 579">In Section 2.2.3.17.1, PROPERTY_DESCRIPTION, updated values to hexadecimal format for consistency in the PropertySet and PropertyId field tables.</p> <p data-bbox="500 621 662 646">Changed from:</p> <p data-bbox="500 663 522 678">...</p> <p data-bbox="500 688 1349 714">PropertySet (1 byte): An 8-bit unsigned integer that specifies the property set.</p> <table border="1" data-bbox="516 722 1414 951"> <thead> <tr> <th data-bbox="516 722 964 770">Value</th> <th data-bbox="964 722 1414 770">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 770 964 848">CameraControl 1</td> <td data-bbox="964 770 1414 848">This property set category controls camera device settings.</td> </tr> <tr> <td data-bbox="516 848 964 951">VideoProcAmp 2</td> <td data-bbox="964 848 1414 951">This property set controls devices that can adjust the image color attributes of analog or digital signals.</td> </tr> </tbody> </table> <p data-bbox="500 1031 1360 1083">PropertyId (1 byte): An 8-bit unsigned integer that contains the identifier of the property within the property set specified by the PropertySet field.</p> <p data-bbox="500 1089 786 1115">CameraControl properties:</p> <table border="1" data-bbox="516 1123 1414 1629"> <thead> <tr> <th data-bbox="516 1123 964 1171">Value</th> <th data-bbox="964 1123 1414 1171">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1171 964 1249">Exposure 1</td> <td data-bbox="964 1171 1414 1249">This property controls the exposure time of the device.</td> </tr> <tr> <td data-bbox="516 1249 964 1327">Focus 2</td> <td data-bbox="964 1249 1414 1327">This property controls the focus setting of the device.</td> </tr> <tr> <td data-bbox="516 1327 964 1404">Pan 3</td> <td data-bbox="964 1327 1414 1404">This property controls the pan setting of the device.</td> </tr> <tr> <td data-bbox="516 1404 964 1482">Roll 4</td> <td data-bbox="964 1404 1414 1482">This property controls the roll setting of the device.</td> </tr> <tr> <td data-bbox="516 1482 964 1560">Tilt 5</td> <td data-bbox="964 1482 1414 1560">This property controls the tilt setting of the device.</td> </tr> <tr> <td data-bbox="516 1560 964 1629">Zoom 6</td> <td data-bbox="964 1560 1414 1629">This property controls the zoom setting of the device.</td> </tr> </tbody> </table> <p data-bbox="500 1675 781 1701">VideoProcAmp properties:</p> <table border="1" data-bbox="516 1709 1414 1879"> <thead> <tr> <th data-bbox="516 1709 964 1757">Value</th> <th data-bbox="964 1709 1414 1757">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1757 964 1879">BacklightCompensation 1</td> <td data-bbox="964 1757 1414 1879">This property controls the backlight compensation setting of the device. This value MUST be either 0 or 1. The value 0 indicates that backlight</td> </tr> </tbody> </table>		except that the order of the U and V planes is reversed.	RGB24 0x06	RGB, 24 bits per pixel.	RGB32 0x07	RGB, 32 bits per pixel.	Value	Meaning	CameraControl 1	This property set category controls camera device settings.	VideoProcAmp 2	This property set controls devices that can adjust the image color attributes of analog or digital signals.	Value	Meaning	Exposure 1	This property controls the exposure time of the device.	Focus 2	This property controls the focus setting of the device.	Pan 3	This property controls the pan setting of the device.	Roll 4	This property controls the roll setting of the device.	Tilt 5	This property controls the tilt setting of the device.	Zoom 6	This property controls the zoom setting of the device.	Value	Meaning	BacklightCompensation 1	This property controls the backlight compensation setting of the device. This value MUST be either 0 or 1. The value 0 indicates that backlight
	except that the order of the U and V planes is reversed.																														
RGB24 0x06	RGB, 24 bits per pixel.																														
RGB32 0x07	RGB, 32 bits per pixel.																														
Value	Meaning																														
CameraControl 1	This property set category controls camera device settings.																														
VideoProcAmp 2	This property set controls devices that can adjust the image color attributes of analog or digital signals.																														
Value	Meaning																														
Exposure 1	This property controls the exposure time of the device.																														
Focus 2	This property controls the focus setting of the device.																														
Pan 3	This property controls the pan setting of the device.																														
Roll 4	This property controls the roll setting of the device.																														
Tilt 5	This property controls the tilt setting of the device.																														
Zoom 6	This property controls the zoom setting of the device.																														
Value	Meaning																														
BacklightCompensation 1	This property controls the backlight compensation setting of the device. This value MUST be either 0 or 1. The value 0 indicates that backlight																														

Errata Published*	Description														
		compensation is disabled. The value 1 indicates that backlight compensation is enabled.													
	Brightness 2	This property controls the brightness setting of the device.													
	Contrast 3	This property controls the contrast setting of the device.													
	Hue 4	This property controls the hue setting of the device.													
	WhiteBalance 5	This property controls the white balance setting of the device.													
	...														
	Changed to:														
	...														
	PropertySet (1 byte): An 8-bit unsigned integer that specifies the property set.														
	<table border="1"> <thead> <tr> <th data-bbox="487 808 966 871">Value</th> <th data-bbox="966 808 1430 871">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="487 871 966 945">CameraControl 0x01</td> <td data-bbox="966 871 1430 945">This property set category controls camera device settings.</td> </tr> <tr> <td data-bbox="487 945 966 1060">VideoProcAmp 0x02</td> <td data-bbox="966 945 1430 1060">This property set controls devices that can adjust the image color attributes of analog or digital signals.</td> </tr> </tbody> </table>	Value	Meaning	CameraControl 0x01	This property set category controls camera device settings.	VideoProcAmp 0x02	This property set controls devices that can adjust the image color attributes of analog or digital signals.								
	Value	Meaning													
	CameraControl 0x01	This property set category controls camera device settings.													
	VideoProcAmp 0x02	This property set controls devices that can adjust the image color attributes of analog or digital signals.													
	PropertyId (1 byte): An 8-bit unsigned integer that contains the identifier of the property within the property set specified by the PropertySet field.														
	CameraControl properties:														
<table border="1"> <thead> <tr> <th data-bbox="487 1144 966 1207">Value</th> <th data-bbox="966 1144 1430 1207">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="487 1207 966 1281">Exposure 0x01</td> <td data-bbox="966 1207 1430 1281">This property controls the exposure time of the device.</td> </tr> <tr> <td data-bbox="487 1281 966 1354">Focus 0x02</td> <td data-bbox="966 1281 1430 1354">This property controls the focus setting of the device.</td> </tr> <tr> <td data-bbox="487 1354 966 1428">Pan 0x03</td> <td data-bbox="966 1354 1430 1428">This property controls the pan setting of the device.</td> </tr> <tr> <td data-bbox="487 1428 966 1501">Roll 0x04</td> <td data-bbox="966 1428 1430 1501">This property controls the roll setting of the device.</td> </tr> <tr> <td data-bbox="487 1501 966 1575">Tilt 0x05</td> <td data-bbox="966 1501 1430 1575">This property controls the tilt setting of the device.</td> </tr> <tr> <td data-bbox="487 1575 966 1701">Zoom 0x06</td> <td data-bbox="966 1575 1430 1701">This property controls the zoom setting of the device.</td> </tr> </tbody> </table>	Value	Meaning	Exposure 0x01	This property controls the exposure time of the device.	Focus 0x02	This property controls the focus setting of the device.	Pan 0x03	This property controls the pan setting of the device.	Roll 0x04	This property controls the roll setting of the device.	Tilt 0x05	This property controls the tilt setting of the device.	Zoom 0x06	This property controls the zoom setting of the device.	
Value	Meaning														
Exposure 0x01	This property controls the exposure time of the device.														
Focus 0x02	This property controls the focus setting of the device.														
Pan 0x03	This property controls the pan setting of the device.														
Roll 0x04	This property controls the roll setting of the device.														
Tilt 0x05	This property controls the tilt setting of the device.														
Zoom 0x06	This property controls the zoom setting of the device.														
VideoProcAmp properties:															

Errata Published*	Description	
	Value	Meaning
	BacklightCompensation 0x01	This property controls the backlight compensation setting of the device. This value MUST be either 0 or 1. The value 0 indicates that backlight compensation is disabled. The value 1 indicates that backlight compensation is enabled.
	Brightness 0x02	This property controls the brightness setting of the device.
	Contrast 0x03	This property controls the contrast setting of the device.
	Hue 0x04	This property controls the hue setting of the device.
	WhiteBalance 0x05	This property controls the white balance setting of the device.
	...	
	In Section 2.2.3.19.1, PROPERTY_VALUE, updated values to hexadecimal format for consistency in the Mode field table.	
	Changed from:	
	...	
	Mode (1 byte): An 8-bit unsigned integer that specifies how the property was set.	
	Value	Meaning
	Manual 1	The value was set manually.
	Auto 2	The value was set automatically.
	...	
	Changed to:	
	...	
	Mode (1 byte): An 8-bit unsigned integer that specifies how the property was set.	
	Value	Meaning
	Manual 0x01	The value was set manually.
	Auto 0x02	The value was set automatically.
	...	

*Date format: YYYY/MM/DD