

## [MS-XCA]: Xpress Compression Algorithm

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Errata below are for Protocol Document Version [V9.0 - 2021/06/25](#).

Errata Published*	Description
2023/01/30	<p>In section 2.1.4.3, deleted a sentence asserting that match length checks are performed.</p> <p>Changed from:</p> <p>Note that match distances cannot be larger than 65,535, and match lengths cannot be longer than 65,538. The LZ77 phase is implemented to ensure that match lengths and distances do not exceed these values.</p> <p>Changed to:</p> <p>Note that match distances cannot be larger than 65,535, and match lengths cannot be longer than 65,538.</p> <p>In section 2.2.4, "Processing," clarified the description of processing for decompression.</p> <p>Changed from:</p> <p>During the beginning of processing each block for decompression, an implementation MUST check for EOF. An implementation can do this by comparing the block size against the required space for a Huffman table — if this condition is met and all output has been written, then processing stops and success is returned. Alternately, an implementation can explicitly examine the input buffer using the Huffman table from the previous block.</p> <p>Changed to:</p> <p>During the beginning of processing each block for decompression, an implementation MUST check that the block has sufficient space for a Huffman table — if the block has enough space, then processing continues. If there is not enough space for a Huffman table and all output has been written, then processing stops and success is returned, otherwise an error indicating invalid data is returned.</p>

Errata Published*	Description
	<p>In section 2.2.4, Processing, added terminating conditions to the decompression pseudocode.</p> <p>Changed from:</p> <p>Loop until a decompression terminating condition</p> <p>Build the decoding table  CurrentPosition = 256                   // start at the end of the Huffman table  NextBits = Read16Bits(InputBuffer + CurrentPosition)  CurrentPosition += 2</p> <p>Changed to:</p> <p>Loop until a decompression terminating condition</p> <p>If remaining input buffer does not have enough space for a Huffman table  If we're at the end of the output buffer  Decompression is complete, return success  The compressed data is not valid, return error</p> <p>Build the decoding table  CurrentPosition = 256                   // start at the end of the Huffman table  NextBits = Read16Bits(InputBuffer + CurrentPosition)  CurrentPosition += 2</p>

\*Date format: YYYY/MM/DD