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ENCRYPTION KEY STRENGTH 256 bits v 6144 bits

Many existing Encryption products use 128 or 256 bit key strengths. When comparing 128 bits to 256 bits, this is not simply twice as strong. The problem is that many products currently in use and for sale use algorithms with 128 and 256 bits as their core. These have proved to be vulnerable to 'Brute Force' attacks. Even a 768 bit key has been broken under sustained attack.

Hawthorne Davies believes that if you use Encryption technology then it is extremely important to use products that have the strongest algorithms available and that offer future proof security. Hawthorne Davies HDX algorithm which is the heart of their CRYPTETOsafe and CRYPTETOMail products has a strength of 6144 bits!

To understand the incredible strength and security this offers, a 6144-bit key is

291,483,831,440,891,676,804,218,470,786,988,837,821,680,452,589,993,050,322,
048,062,885,893,892,238,952,026,818,759,203,887,194,953,167,548,589,434,327,
456,525,820,339,192,292,266,855,816,500,960,319,069,864,764,456,025,843,748,
061,868,637,932,942,861,407,231,507,055,765,189,818,170,151,907,995,266,435,
578,369,605,491,355,570,060,373,935,325,660,282,047,598,198,744,549,898,215,
766,176,942,223,551,352,173,021,639,570,434,956,061,832,248,963,175,531,089,
682,385,606,355,019,527,992,400,228,621,806,547,712,186,346,447,995,292,094,
128,481,159,393,559,735,189,882,744,060,714,975,973,946,351,539,048,105,360,
826,964,063,236,544,839,743,769,394,261,286,599,408,182,720,576,082,502,594,
216,438,743,396,866,303,291,537,080,526,157,275,181,788,953,443,083,172,202,
883,386,283,062,480,964,720,474,246,361,690,951,443,361,993,316,580,043,883,
036,095,913,071,568,868,205,633,386,805,228,170,492,781,110,724,757,942,631,
326,649,352,191,520,865,725,188,105,271,566,332,098,736,350,940,981,755,543,
273,994,414,383,305,662,112,239,764,908,746,639,928,812,405,134,020,537,824,
778,610,935,385,286,899,627,008,598,994,370,895,693,832,666,005,788,637,426,
515,423,989,775,333,350,945,469,246,225,005,799,095,268,341,170,808,275,094,
749,469,864,034,440,896,406,739,019,733,740,845,114,794,351,209,724,996,723,
777,187,764,107,630,075,372,802,493,157,536,722,443,734,821,310,445,404,982,
017,213,465,885,644,985,947,839,690,093,994,853,407,612,219,862,294,031,225,
054,388,566,803,606,529,570,073,372,785,795,128,812,204,320,063,117,469,407,
230,660,226,655,075,849,659,916,312,048,446,482,406,165,704,992,136,774,436,
949,048,964,205,616,795,429,047,805,097,046,653,794,920,928,949,287,608,176,
349,727,702,085,798,630,957,412,721,707,446,392,968,488,220,178,679,628,027,
886,184,223,018,190,111,454,740,663,707,476,669,736,127,781,889,111,408,415,
191,156,129,635,792,576,971,855,295,749,888,647,835,843,805,253,948,772,293,
434,931,036,007,019,962,961,264,866,233,368,951,097,637,878,692,788,195,304,
409,036,651,765,807,737,520,359,807,103,780,786,813,688,910,458,616,119,690,
965,032,498,848,756,800,488,537,637,345,473,635,330,686,866,445,971,170,732,
958,666,722,231,900,243,490,960,946,683,725,793,305,178,875,282,417,292,424,
640,641,949,517,908,251,863,359,558,588,861,201,359,338,667,854,637,135,040,
650,951,213,289,994,224,513,380,588,109,590,955,811,081,490,845,270,051,500,
589,056

times stronger than a 256-bit key.