| 2023-02-05 transaction hash   | gasUsed (unit) gasPrice (wei) contract address  | Final cost ETH               | Final cost €                                    |  |
|---|---|------------------------------|---|--|
| 0x5b9398a1dce181cb213fc795774a63468fd8896692384898b7694257c677eadd  | 1692477 55 0xf589c5b6379238De28455A2F9B8368978914D6B0   |                              | € 0.0000014199653545605                         |  |
|   |   |                              |   |  |
| 2023-02-05 transaction hash   | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)   | Final cost ETH               | Final cost €                                    |  |
| 0xe31a930800198e29d581da99319c49c722d4d8235b151bee68fc3a379f8c3c51  | 1692477 59 0x02E41C57fD9Be838CD122053D43D8725ABa5f4b5   | € 0,000000000099856143       | € 0,00000015232355621649                        |  |
|   |   |                              |   |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price ETH/EUR 05  |                              | tps://finance.yahoo.com/quote/ETH-EUR/history/) |  |
| 2023-02-05 0xe7fbd4c8b5958d0361ca36ca0e7c1ed5429f771b329c6d3c64177f18e1ffd96d   | 67153 51 €0,00000005 Transactions for storing public €1.525, 67153 52 €0,00000006 key readers (actors). One for   | 43                           |   |  |
| 0x4fe2d7de37cc4d977650745f97f44635288e072c80662f94d64a45fe87102ba2  | 67153 52 €0,000000005 key readers (actors). One for   |                              |   |  |
| 0x0f32bfd6dd41f482473d58219e13954026930d0c3da570476ff3f42465b386e2  | 67153 51 €0,000000005 each of the users (manufacturer, supplier1, supplier2)  |                              |   |  |
| Average   | 67153 51,33333333 €0,000000005 key_on_block   |                              |   |  |
|   |   |                              |   |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price   |                              |   |  |
| 2023-02-05 0xebb5e11ee419dff9f17cef5183c4e2d69e859b53fdbe61d63b466efcd029ed46   | 67153 55 €0,000000008   |                              |   |  |
| 0xdcf859425a4c454fdd057ae2f38dc3b730c1d4f823d2b241bd3aa78ef08d21ce  | 67153 55 €0,000000008 Transactions for storing public key readers (actors). One for   |                              |   |  |
| 0xb59d9a15966625cce7139bc172076cb8b16e9ac491da4cfaed521bb633508212<br>Average   | 67153 54 €0,00000000 key readers (actors). One for each of the users (manufacturer, each of the users (manufacturer, each of the users (manufacturer).          |                              |   |  |
| Average   | 67103 54,00000007 €U,UUUUUUUU suppiler1, suppiler2) main  |                              |   |  |
| 2023-02-05 0xdc561d89fbccbf17799cf848dc8eeed4362454471bffa15fe592f172ab840113   | 67533 50 €0,00000005  |                              |   |  |
| 2023-02-05 0xdcb61d89fbccbf17/99cf848dc8eeed43624544/1bffa15fe592f172ab840113<br>0xf0637f47099c5f22c8627c3b86d96bcf911a6721d86e7fb61070bf30b5cec36f | 67533 50 €0,000000005<br>67533 50 €0,00000006   |                              |   |  |
| 0x221c1ada61f3a7f506c78d63c32c57cd0f3feb3217c11b7aa81208d988a7fb72  | 67533 51 €0.00000005  |                              |   |  |
| 0xd2f4c8f2e1f9a08074fb1fa96804daaf397cfbf2204d0a61c915048a8c9a9728  |   |                              |   |  |
| 0x73a4a4e34dc8385c733f9a32d64b3d9192e5cab2ba31b18ca4ba60a462b689f1  | 67533 52 €0,00000005 Transactions for the storage of the user's attributes. Action 1 of 67533 51,2 €0,00000005 the MARTSIA approach                             |                              |   |  |
| Average   | 67533 51.2 €0.000000005 the MARTSIA approach  |                              |   |  |
| Avelage   | Uroso Ur, E Co, ou do do do la  |                              |   |  |
| 2023-02-05 0x0a111bd7a6ffdb00c6a08ef382b4f4fc5f8e390f409c08ecdf2bc002806f1413   | 67755 52 €0,000000005   |                              |   |  |
| 0xb2ab1b3c57f2456c7f8c2d28d2ab9b9787dd827f202463e95cb6b776191d4f0a  | 67755 51 €0,000000005   |                              |   |  |
| 0xec2e82bbfd2c8ef177b0a7971cb5ce4bb5e8dcf97d838471e758fd5831fd5cfe  | 67755 52 €0,000000005 Transactions for the storage of   |                              |   |  |
| 0xac1b4ca334c02303cb874778aff8c8290f91a8cab3c1d2f3dad5435d6ef8b7b5  | 67755 52 €0,000000005 the authorities' names. 1st action of the authorities (each of them:  |                              |   |  |
| Average   | 67755 51,75 €0,00000005 one transaction per authority)  |                              |   |  |
|   |   |                              |   |  |
| 2023-02-05 0x9e683214bcbdb2f710c702746d163d7ea6935e10f5b81d414032d378472b8b8e   | 113680 54 €0,000000009  |                              |   |  |
| 0xf8cf697b9cb7d638843c3e7ab6a5ee53f997cd74e1c7b7fe5836050dd2ee3b0e  | 113680 53 €0,000000009  |                              |   |  |
| 0xfc1c48dc068dff1f6190cc53700d53f059b59530881045beef42fbbbbad14807  | 113680 54 €0,000000009 Transactions for the storage of  |                              |   |  |
| 0x4887c042cc63549d1cb01df9af340e34bee09fa2ba0253981addd15be151cb40  | 113680 54 €0,000000009 of the authorities (each of them:  |                              |   |  |
| Average   | 113680 53,75 €0,000000009 one transaction per authority)  |                              |   |  |
|   |   |                              |   |  |
| 2023-02-05 0x8f3cbc0577e7ccc0459eed5bebb984213f10d0f60d19fcd8e574fe130c2aa3e2   | 159693 51 €0,000000012  |                              |   |  |
| 0xf4ea672cd34bee7fbd6a08cd0d3d6e886cac9e056bdba07d8834b0d6cb1c85a9  | 159693 51 €0,000000012  |                              |   |  |
| 0xf475b6896d45ea89935516ed6ff0ef9a6c422ce16149a362d035b166a45dff96  | 159693 52 €0,000000013 Transactions for the storage of the elements, 3rd action of the  |                              |   |  |
| 0x3f45ab76346e8476a10db88169ad08bbb81acfd88bfd4a6ad695b92dddd19f75  | 159893 52 €0,00000013 Transactions for the storage of the elements. 3x3 daction of the authorities (each of them: one   |                              |   |  |
| Average   | 159693 51,75 €0,000000013 transaction per authority)  |                              |   |  |
|   |   |                              |   |  |
| 2023-02-05 0xa73a91936c4571a9cd0cc37b8a38147a6dba92712b30c79e31f0bf36262f2e5e   | 67731 52 €0,00000005  |                              |   |  |
| 0x5cbf/fcf7fd57cefcaffe573d3f3cb9033c2f6730b7b27736deffe3e4c3aeecd<br>0x508dea2e6ca2819627468a4eae27e5bd55e22c54ca16f10578d029da2e38adb1            | 67731 51 €0,00000006<br>67731 51 €0,00000006 Transactions for the storage of  |                              |   |  |
|   | 67/31 51 €0,000000005 Transactions for the storage of the public parameters. 4th action   |                              |   |  |
| 0x83e6023d9e5ccab15ef8d31dd6bb5e8f21e798c870b2039ef20bd85a738e8e31  | 67731 53 €0,00000000 of the public parameters. 4th action 67731 51.75 €0,000000005 one transaction per authority)   |                              |   |  |
| Average   | 67731 51,75 €0,000000005 one transaction per authority)   |                              |   |  |
| 2023-02-05 0x4f31c8016ab203042b5b70ce5a6f492425a18a15e8854cf6e1ca175a6cb37e1c   | 67688 52 €0.00000005  |                              |   |  |
| 0x9741c913f0a42a5e5547e9841h9c0681c42h52ae94a897d3a0hchhc04e4c23ch  | 67688 51 60 00000005  |                              |   |  |
| 0x12555f50h47h52ed3a6c86ha6504f9a8065ae72ca27f218887e428fh71a87dhd  | 67688 50 60 00000000 Transactions for the storage of  |                              |   |  |
| 0x4dbaca6f19af50af341380e1bfe0d1a352d6f6811464e27c1e3eab394a0b3c4f  | 67688 51 €0,000000005 the public keys. 5th action of the authorities (each of them: one   |                              |   |  |
| Average   | 67688 51 €0,00000005 transaction per authority)   |                              |   |  |
|   | ,,,,,,,,,,,,,,,   |                              |   |  |
| 2023-02-05 0xe0663a4475007a572f3d9857ef0ce0a5ecedfc3f64c3ebd1394c596ac7e96ce4   | 89772 55 €0,000000008   |                              |   |  |
| 0xd76347c3152e47fa299b9d27dea33e0bf5229356641027e6badfa825d00370fd  | 89772 54 €0,000000007   |                              |   |  |
| 0xd0f345246e43f356f49e302000677c52f4daac0ee5136cb978073eb17ef5c627  | 89772 56 €0,000000008   |                              |   |  |
| 0x209b4d1acd5b14be77d1d00b42cf0b07de999144bbb4fdd294c54e211ae0fad1  | 89772 56 €0,000000008 Transportions for the absence of  |                              |   |  |
| 0x19339b05cd3da213519a2c2891e4c263db6957358366b45e242e280fda39d169  | 89772 56 €0,000000008 Transactions for the storage of the IPFS link. Action 2.4 of the  |                              |   |  |
| Average   | 89772 55,4 €0,000000008 MARTSIA approach  |                              |   |  |
|   |   |                              |   |  |
| 2023-02-05 0xd8a6676de6f142271bacaaed860b29917ba457d3cdbb9d8e6321d9ef620914b4   | 21848 54 €0,000000002 Transactions for passing the key.   |                              |   |  |
| 0x824222a758783111acd94f6fd1a17afc45131c8fd39d8ea6bbb837ca0157a29e  | 22072 55 €0,000000002 Transactions for passing the key. 22072 55 €0,000000002 Pair of transactions, key request, 21980 54,5 €0,000000002 key on block. 1st auth |                              |   |  |
| Average   | 21960 54,5 €0,000000002 key on block. 1st auth  |                              |   |  |
| 2023-02-05 0x6dd414e163564a7d945ed9950a029456f3192dfdd8fbce135732708d28a88518   | 21848 56 €0.00000002  |                              |   |  |
| 2023-02-05 0x60d414e163564a7d945ed9950a029456f3192dfdd8fbce135732708d28a88518<br>0x60e3579c212cca6a6f083e2e70552d21cf508d5a1a966bcdc4e0e28d58f7d14f | 21848 56 €0,00000002<br>22072 56 €0,00000002 Transactions for passing the key.<br>21960 56 €0 00000002 Pair of transactions, key request.                       |                              |   |  |
| 0x60e35/9C212Cca6a61063e2e70552021Cr506d5a1a966bCdC4e0e26d561/d141 Average  | 22072 56 €0,000000002 Pair of transactions: key request, 21960 56 €0,00000002 key on block. 2nd auth  |                              |   |  |
| arage   |   |                              |   |  |
| 2023-02-05 0xf4cf65e136eebb02883a7ad69fe63508675835d5e4d295ada96e9ebfad6e1e67   | 21848 55 €0,00000002 Transactions for passing the key. 22072 54 €0,00000002 Transactions: key request, 21980 54 5 €0,000000002 key on block 3 off auth          |                              |   |  |
| 0xf2d20003f8541e52cae1c966a53680947a7987f74e082ff0add764a188f73ab5  | 22072 54 €0,000000002 Transactions for passing the key.   |                              |   |  |
| Average   | 21960 54,5 €0,000000002 key on block. 3rd auth  |                              |   |  |
| -   |   |                              |   |  |
| 2023-02-05 0xd1515f50c2043a1c76b01e53d90f03a538d1085d99e1557a139cfec8080ed5c3   | 21848 55 €0,00000002<br>22072 60 €0,00000002 Transactions for passing the key.<br>21960 57.5 €0,00000002 key on block. 4th auth                                 |                              |   |  |
| 0x1a3c8767c10b77c211bb5741faba5cea593de48daa78cef1b777eb0006be7270  | 22072 60 €0,000000002 Transactions for passing the key. Pair of transactions: key request.  |                              |   |  |
| Average   | 21960 57,5 €0,000000002 key on block. 4th auth  |                              |   |  |
|   |   |                              |   |  |
|   |   |                              |   |  |
|   |   |                              |   |  |
| 2023-02-06 transaction hash   | gasUsed (unit) gasPrice (wei) contract address  | Final cost ETH               | Final cost €                                    |  |
| 0xc0f44b764026abf06aa8faeb18da9d868cb685fb8db3a7d325beb3500e469e61  | 1692477 2477 0x450B6bE20dBd2bf2F50183d0859bd5421F0D3A34   | € 0,000000004192265529       | € 0,00000634545502734969                        |  |
| 0000 00 00 1  |   | First con FTU                | Footonic  |  |
| 2023-02-06 transaction hash<br>0xb06bb7ce84ec5335dd2b52e31e68cf7e0f2c6aa5551fedaa4d62198390178d82   | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys) 1692477 3502 0x8cF38d67c8d3DdaB613bd087C45CFa6172796C35                                 | Final cost ETH               | Final cost €<br>€ 0,00000897124889211894        |  |
| UNDUGUDI GE04EC0330002002E3 FE08CI / EUIZC088000 FIE08840821983901 / 8082   | 1092477 3002 UX6CF36067C603D08B613D0U67C45CF8617279BC35   | € 0,000000000927054454       | € 0,000000897124089211094                       |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price ETH/EUR 06  | feh 2023 (adi cinee enumo hi | tps://finance.yahoo.com/quote/ETH-EUR/history/) |  |
| 2023-02-06 0x508f1e075039ea4afdb8339971dfd64d495eac8eab3d1c521f1da9e35dd3cd47   | 67153 5048 €0.000000513 Transportions for storing public €1.513   |                              | .pa.manoc.yanoo.com/quote/E111-E0R/fil8tory/)   |  |
| 0x9726e822331aeae3f0f3ad4078ff0832cc69cec379b8c2c94f690a52c915e9bd  | 67153 5166 €0.00000515 Transactions for storing public €1.515,  |                              |   |  |
| 0xce2ae3122c2c6ef337f227cea352dbaecff4680c0698298cb0b8331f1c709f23  | 67153 5166 €0,000000528 key readers (actors). One for 67153 4783 €0,000000488 supplier 1, supplier 2  |                              |   |  |
| Average   | 67153 4999 €0,000000508 key_on_block  |                              |   |  |
|   |   |                              |   |  |
|   |   |                              |   |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price   |                              |   |  |
| Test date Transaction hash 2023-02-06 0x8957cs13ddd4e916f39310db794c33e26a799d6739ea0f5e1f782e0ce25a55ae  | gasUsed (unit) gasPrice (wei) ETH price<br>67153 4198 €0,000000427  |                              |   |  |
| 2023-02-06 0x6957ca13ddd4e916f39310db794c33e26a799d6739ea0f5e1f762e0ce25a55ae   | 67153 4198 €0,000000427<br>67153 3803 €0,000000386 Transactions for storing public  |                              |   |  |
| 2023-02-06 0x6957ca13ddd4e916f39310db794c33e26a799d6739ea0f5e1f782e0ce25a55ae   | 67153 4198 €0.000000427   |                              |   |  |

| 2023-02-08 0x3506ef2504b6920d8d083cd175669a5059f5cc5003324a8e5cafa92228ccce9d  | 67533 5762 €0,000000589  |   |                          |  |  |  |
|--|--|---|--------------------------|--|--|--|
| 0xf9281735f2302a6c427f9a758943fe0613e0d4381606d18e6ce700d70a8379ff   | 67533 5575 €0,000000570  |   |                          |  |  |  |
| 0xed37da7e3c0a03420f6a3113f52b93af6deb6855094eabb181c84a21110de1ca   | 67522 5426 60 000000555  |   |                          |  |  |  |
| 0xb97a56cec1b6df1a76c4b1543704538a0d110c8aeb6aeca0b32a32bcee08a085   | 67533 7085 €0.000000724  |   |                          |  |  |  |
| 0xe9bd3bee940fb7cc4827e90894374235426f43d304ab6a571b1f7c00b980611f   | 67533 7085 €0,000000724<br>67533 22241 €0,00000273 Transactions for the storage<br>67533 9217.8 €0.00000942 the MARTSIA approach   | ıf  |                          |  |  |  |
|  | 6/533 22241 €0,0000022/3 the user's attributes. Action   | of  |                          |  |  |  |
| Average  | 67533 9217,8 €0,000000942 the MARTSIA approach   |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0x2b48359cbdc97f6fa176f0f0ae7c5ebef3c6cf8852c7722f2658b22ec03772ec  | 67755 20130 €0,000002064   |   |                          |  |  |  |
| 0x2814e881e33c353a653e8cc5c3b4dea22acfa7da06899506c5b7f2739b719328   | 67755 18943 €0,000001943   |   |                          |  |  |  |
| 0xad3e59435ff1b6909bf66a4f03f10e83ce526e897f012b48a34516f80f8142e7   | 67755 18603 €0.000001908 Transactions for the storage  | ıf .  |                          |  |  |  |
| 0xaa3e9ba3d800dac9cdec9cb479905a09565b652435c6c99b0e46ffb6a91e25cf   | 67755 18013 €0 000001847 the authorities' names. 1st a   | tion  |                          |  |  |  |
| Average  | 67755 18013 €0,00001847 the authorities' names. 1st a of the authorities (each of the authorities) one transaction per authority one transaction per authority.  | m:  |                          |  |  |  |
| Average  | 67755 18922,25 €0,000001941 one transaction per authority  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0x11849bbd05e8074d8dbea416d945bda7abb48d026a32e0c510786b2d8fa9dc9f  | 113680 18075 €0,000003110  |   |                          |  |  |  |
| 0xa4f5760e885e0736ccd01b2283f1153a0d22c66be39f33dc94584cd589203ef0   | 113680 23129 €0,000003980  |   |                          |  |  |  |
| 0x9e41c8347747f721cd594bd6751c5441cd025791e87000bb3cdcb197281d63c5   | 440000 occasion to concentra Transactions for the storage  | ıf .  |                          |  |  |  |
| 0x4abec52d54eafcfba29a26f8fe2bb07694265bae61b219f523e0daaaa18cdf63   | 113680 33502 €0,000005765 the hashed elements. 2nd a of the authorities (each of the   | ion   |                          |  |  |  |
|  | 113680 27640.5 €0.000004756 one transaction per authority  | m:  |                          |  |  |  |
| Average  | 113680 27640,5 €0,000004756 one transaction per authority  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0x6c8d4f3b9beb036fc55649f11d436301725ccecbaa6757248d22edb55ad6e326  | 159693 33248 €0,000008036  |   |                          |  |  |  |
| 0xfe8ab0e80c9c993a940c9c35d10dc6bdbfc17f0071138279b86e40d6e899eb7f   | 159693 33474 €0,000008091  |   |                          |  |  |  |
| 0x24d012e95149e473349cfc6185ddd596a801dd32f9f5e63635c6fbb203a0aada   | 159693 35329 €0,000008539 Transactions for the storage   | of .  |                          |  |  |  |
| 0x35064be590494724a73e5bed470ca19c4c99f040436386f9e756f9acddfe1b1e   | 159693 35329 €0,00008539 Transactions for the storage the elements. 3rd action of t authorities (each of them: or  |   |                          |  |  |  |
| Average  | authorities (each of them: or<br>159693 34907,75 €0,000008438 transaction per authority)   |   |                          |  |  |  |
| Average  | 159693 34907,75 EU,000006436 transaction per authority)  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0xee14b4f1044257215094635607fa6c64bb78bd59eec25de341c9699731780153  | 67731 50896 €0,000005218   |   |                          |  |  |  |
| 0x7a6974c48944e3ddcf5f4b9f65a4317323084f73d9d4f4cf4246b8b2b23b6aa6   | 67731 84083 €0,000008620   |   |                          |  |  |  |
| 0x367da0857a840de16016cdd2ef498c69533afea7d95948630563f7611a945d7c   | 67731 100691 €0,000010323 Transactions for the storage   | f .   |                          |  |  |  |
| 0x56a98c2b9ab5e515fbd177a3aff3a1bfe474bc5f7cc356ae81091af5d5223e37   | 67731 289530 €0,000029682 the public parameters. 4th a of the authorities (each of the   | ion   |                          |  |  |  |
| Average  | 67731 131300 €0,000013461 one transaction per authority  | m.  |                          |  |  |  |
| g-   | 22. 101000 Co,000010401 Gile statisaction per authority  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-08 0x6ae7c7fac891303b151c6d0328d32c49beb83040c1f05f5fe23c42d5c2af3bdc  | 67688 332952 €0,000034112  |   |                          |  |  |  |
| 0x657d2e505d700b82bda8fd66b64392bdde28d53ddb3ad3624b544f4d372f99a5   | 67688 331883 €0,000034002  |   |                          |  |  |  |
| 0x75b0b07059ca1e22138dad487f5851f2564e39fcc46ff9ede5def9649c0bf569   | 67688 411865 €0,000042197 Transactions for the storage   | f   |                          |  |  |  |
| 0xc7a35c158132ab54a34c6a9ad9503981b89c9d5cd83caf16f46dc7ac717ed10e   | 67688 1506002 €0,000154295 the public keys. 5th action of surphyriting (each of them or  | ne  |                          |  |  |  |
| Average  | 67688 1506002 €0,000154295 the public keys. 5th action or authorities (each of them: or 67688 645675,5 €0,000068152 transaction per authority)   |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
|  | 89772 1567185 €0.000212949   |   |                          |  |  |  |
| 2023-02-08 0x15dc5c98b0db207d87e66c95685e6156a124889458b3ebf8fc6f3b45355401ad  |  |   |                          |  |  |  |
| 0xbaecc16f2c5190ddefecde1910100b1ca5badc4fe25175a38ecf6f5a53b5f93f   | 89772 1585843 €0,000215457   |   |                          |  |  |  |
| 0x956c9b17aa664028986979cccb5f2615af0b7da0158b89e2a33444b0b019f4fb   | 89772 2190456 €0,000297639   |   |                          |  |  |  |
| 0x2e5f8b6ca8e485b55e2fbadc87f97b863b032a4dda5c6dc0831ca91db0ce954b   | 89772 3563157 €0,000484161   |   |                          |  |  |  |
| 0x3dcd3997244596a3c2cf65bdd1d041f06a525f4030c09607b8beaa463a55a039   | 89772 3576937 €0,000486033 Transactions for the storage the IPFS link. Action 2.4 of the IPFS link. Action 2.4 of the IPFS link.   | ıf .  |                          |  |  |  |
| Average  | 89772 2496675,6 €0,000339248 MARTSIA approach  |   |                          |  |  |  |
| Avelage  | 00172 2400010,0 CO,000000240 MP4C1OH approach  |   |                          |  |  |  |
| 2023-02-06 0x0155d785579c1475207633910f06335955ffaf1ef630ec740ca142f976b5a0ee  | 21848 3176103 €0.000105032   |   |                          |  |  |  |
|  |  | rev   |                          |  |  |  |
| 0x602efc511600a76bffd5c4a7d24469a5b6dd54ffdc9b4d83a20e2a3c9eedcc62   | 22072 3386869 €0,000113150 Pair of transactions: key req   | est,  |                          |  |  |  |
| Average  | 21960 3281486 €0,000109073 key on block. 1st auth  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0x922d47c9e0bb7a7d4871f177b616f6e6ee15ae84baa5ae65f015a35cb66b4e83  | 21848 3412312 €0,000112843   |   |                          |  |  |  |
| 0xdb7296c6e875f448c133f9ef8b6723076f30d5e3524e36c8559b15e89ddbd6dd   | 22072 3244418 €0,000108391 Transactions for passing the  | xey.  |                          |  |  |  |
| Average  | 22072 3244418 €0,000108391 Transactions for passing the<br>21980 3328365 €0,000110631 key on block. 2nd auth   | est,  |                          |  |  |  |
| Avelage  | 21900 3326300 €0,000110031 key 011 block. 210 addit  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0x4e442761a6ce599fc82f53dac686ab610dbfc8fe71c57aa58060b27970d05a11  | 21848 5099752 €0,000188845 22072 5429218 €0,000181381 Pair of transactions: key req 21960 5264485 €0,000174986 key on block. 3rd auth  | rav   |                          |  |  |  |
| 0x15fdd8447c48b77edea76cbdb366de2c4b4a16d54a90e51f151e9c3ff231c4e2   | 22072 5429218 €0,000181381 Pair of transactions key ren  | est   |                          |  |  |  |
| Average  | 21980 5264485 €0,000174986 key on block. 3rd auth  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-06 0x8fb69fc96e7e65f4febeed962e14bfa6ecc8e0c85d0df556812efde50afc151f  | 21848 5328424 €0.000176208   |   |                          |  |  |  |
| 0x8141bba2343976168e52b21d8c00b910ce52366bb6cacd92a5e2ad0c8cf71f61   | 22072 4665081 €0.000155853 Transactions for passing the  | cey.  |                          |  |  |  |
| Average  | 21848 5328424 €0,000176208 22072 4665081 €0,000155853 Transactions for passing the Pair of transactions: key req 21960 4996752,5 €0,000166086 key on block. 4th auth   | est,  |                          |  |  |  |
| Avelage  | 21500 4550732,5 €0,000100000 key 011 block: 401 addit  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-07 transaction hash  | gasUsed (unit) gasPrice (wei) contract address   | Final cost ETH  | Final cost €             |  |  |  |
| 0x2f72585a6550884d80a434c558c3f3b7d778162445e0e7f4156787ffc7fa0da6   | 1692477 97329664 0x9D5820d6fdB4bE0340428FA1B9Ea9E65E   | 976872 € 0,000164728217737728   | € 0,25273097349975400000 |  |  |  |
|  |  |   |                          |  |  |  |
| 2023-02-07 transaction hash  | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)  | Final cost ETH  | Final cost €             |  |  |  |
|  |  |   |                          |  |  |  |
| Oxec2d317ecdcaf58hdd5868f97d5e6eaadff5f9c74a7f53hhf5d9202h069ead93   | gasoused (unit) gasernice (well) contract address for main (public keys)  1692477 97337691 0x3d4A4FE31Cfe16xf9xf53E0078CE80cce13   |   |                          |  |  |  |
| 0xec2d317ecdcaf58bdd5868f97d5e6eaadff5f9c74a7f53bbf5d9202b069eaf93   | gas-used (unit) gas-rice (wei) contract address for main (public keys) 1692477 97337691 0x3d4A4FF31Cfe16af9af53F0078CE80ccc13  |   | € 0,25275181680117900000 |  |  |  |
|  | 1692477 97337691 0x3d4A4FF31Cfe16af9af53F0078CE80ccc13   | d322 € 0,000164741803250607   | € 0,25275181680117900000 |  |  |  |
| Test date Transaction hash   | 1692477 97337691 0x3d4A4FF31Cfe16af9af53F0078CE80ccc13 gasUsed (unit) gasPrice (wei) ETH price   | d322 € 0,000164741803250807<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  |                          |  |  |  |
| Test date Transaction hash 2023-02-07 0x88417bd72353fb1b6e370dsb8f96bf0f3ccc1bf7e6c2e111dd497254e2ffcb6a   | 1692477 97337691 0x3d4A4FF31Cfe16af9af53F0078CE80ccc13 gasUsed (unit) gasPrice (wei) ETH price 67153 101024976 €0.010408418 Transactions for storion public  | d322 € 0,000164741803250607<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  | € 0,25275181680117900000 |  |  |  |
| Test date Transaction hash 2023-02-07 0x88417bd72353fb166370dab8f96bf0f3ccc1bf7e6c2e111dd497254e2ffcb6a 0x5550ef8b7d00c77f821491cf5651e0b5dc907ab776eeda015eb459444b3356c9   | 1692477 97337691 0x3d4A4FF31Cfe16af9af53F0078CE80ccc13 gasUsed (unit) gasPrice (wei) ETH price 67153 101024976 €0.010408418 Transactions for storion public  | d322 € 0,000164741803250607<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  | € 0,25275181680117900000 |  |  |  |
| Test date Transaction hash 2023-01-07 0x88417bd7238591b68770dab8f869f86b0f8ccc1t677e6c2e111dd497254e2ffcb68 0x655048b76002778221491c58556b05dc97ab778ec4ab1556b554448335869 0xc2536e8db576127826145105465545646463828578195533342644   | 1692477 97337691 0x364A4FF31Cle16af9afS3F0078CE80ccc13   gasDised (unit) gasPrice (we)  ETH price   67153 101024976 60.010408416   Transactions for storing pub   67153 101046001 60.010472598   key teaders (action). One for   67153 10729788 60.0107397098   colono7397098   colono7397098   67153 10729788 60.0107397098   colono7397098   67153 10729788 60.0107397098   colono7397098   67153 10729788 60.010739708   67153 107297   | d322 € 0,000164741803250607<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  | € 0,25275181680117900000 |  |  |  |
| Test date Transaction hash 2023-02-07 0x88417bd72353fb166370dab8f96bf0/3coc1bf7e6c2e111dd497254e2ffcb6a 0x5550ef8b7d00c77f821491cf5651e0b5dc907ab776ee3a015eb459444b3356c9   | 1692477 97337691 0x3d4A4FF31Cfe16af9af53F0078CE80ccc13 gasUsed (unit) gasPrice (wei) ETH price   | d322 € 0,000164741803250607<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  | € 0,25275181680117900000 |  |  |  |
| Test date Transaction hash 2023-02-07 0x88417bd723S5b1b6e370dab8956bf0lSccc1bf7e6c2e111dd497254e2ffcb6a 0x655068b700c77822491d565650b5d6070h776ec4b156b546544833S690x62536e8d5561c782645561561656565646578776ec4b1565565656573342664   | 1692477 97337691 0x364A4FF31Cle16af9afS3F0078CE80ccc13   gasDised (unit) gasPrice (we)  ETH price   67153 101024976 60.010408416   Transactions for storing pub   67153 101046001 60.010472598   key teaders (action). One for   67153 10729788 60.0107397098   colono7397098   colono7397098   67153 10729788 60.0107397098   colono7397098   67153 10729788 60.0107397098   colono7397098   67153 10729788 60.010739708   67153 107297   | d322 € 0,000164741803250607<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  | € 0,25275181680117900000 |  |  |  |
| Test date Transaction hash 2023-02-07 0x88417bd723S5b1b6e370dab8956bf0lSccc1bf7e6c2e111dd497254e2ffcb6a 0x655068b700c77822491d565650b5d6070h776ec4b156b546544833S690x62536e8d5561c782645561561656565646578776ec4b1565565656573342664   | 1982477   9733787   0.0344AFF31Cle16affs453F0078CE80cc13   gasUsed (unit) gasPrice (we) ETH price   10104976   60.010408416   747513   101046976   60.010408416   7amasactions for storing pub (e.0.10427396 key readers (actions). One for 101046976   60.010427396 key readers (actions). One for 101046976   67153   101133588,3   60.010419000 key on_15004   key on_15004   67153   60.010419000 key on_15004   67153   60.010419000 key on_15004   67153   60.010419000 key on_15004   67153     | d322 € 0,000164741803250607<br>ETH/EUR 07 feb 2023 (adj. close, source: ht  | € 0,25275181680117900000 |  |  |  |
| Test date  | 1992477 9733789 10.0344AFF31Che1esfasf35F0078CE80cc13 gastbeed (unit) gasPrice (we) ETH price 67513 101049976 E0.010409419 Transactions for storing puls 67513 101049970 16.03.01427399 key readers (addrss). One to ese (manufact 67513 10103588.3 60.010419000 key_cn_2hec6 67513 10113588.3 60.010419000 key_cn_2hec6 gastbee(unit) gasPrice (we) ETH price 67613 9331996 6 60.010237124  | 4322 € 0,000164741803250807<br>ETH/EUR 07 feb 2023 (adj. close, source: hl<br>€1.534,23   | € 0,25275181680117900000 |  |  |  |
| Test dale  | 1992477 9733789 10.0344AFF31Che1esfasf35F0078CE80cc13 gastbeed (unit) gasPrice (we) ETH price 67513 101049976 E0.010409419 Transactions for storing puls 67513 101049970 16.03.01427399 key readers (addrss). One to ese (manufact 67513 10103588.3 60.010419000 key_cn_2hec6 67513 10113588.3 60.010419000 key_cn_2hec6 gastbee(unit) gasPrice (we) ETH price 67613 9331996 6 60.010237124  | 4322 € 0,000164741803250807<br>ETH/EUR 07 feb 2023 (adj. close, source: hl<br>€1.534,23   | € 0,25275181680117900000 |  |  |  |
| Test data: Transaction hash 2023-02-07 0x88417b3723591b168:370da8989800f0ccc1stFe6c2e111d4867254e28fc6da 0x504067507507507507507507507507507507507507507   | 1992477 9733789 Indod4A4FF31Cle164894SF9078CE80cc13 gastNeed (unit) gastPrice (well) ETH price 67153 101049078 60,010408418 7 manascione for sloring puls 67153 101049078 60,010379003 suppliert, supplier2) 67153 101043788 60,010379003 suppliert, supplier2) 67153 10133883 60,010379003 suppliert, supplier2) 67153 10104908 60,010379003 suppliert, supplier2) 67153 98313865 60,010232124 67153 100259418 60,0102324274  | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test dale Transaction hash 2023-02-07 0x884-17x07235501-bles/370sla86980K/Dccc1s167e6c2e-11146447254-42ffscfa 0x555ce8c57000c77821491c5651-el0b5ds0671a5778ce01a115e44554440355k-9 0xc2s35ee8x5011a7984421160719402511ad544-4c6442838791950213344294 Average  Test date Transaction hash 2023-02-07 0x66461-d1685687719725s61891476525b377375d5083773s6257614925ta 0x75e491322665000x33313723310239931914114403a35911004-6980203s91520 0x566917205b1335054357451057476453253131368643444933136864344933136864344933136864344931368643449313686434986436866666666666666666666666666   | 1984/77   9733787   0.0344AFF31 Che14affa453F0078CE80cc13  | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test data: Transaction hash 2023-02-07 0x88417b3723591b168:370da8989800f0ccc1stFe6c2e111d4867254e28fc6da 0x504067507507507507507507507507507507507507507   | 1992477 9733789 Indod4A4FF31Cle164894SF9078CE80cc13 gastNeed (unit) gastPrice (well) ETH price 67153 101049078 60,010408418 7 manascione for sloring puls 67153 101049078 60,010379003 suppliert, supplier2) 67153 101043788 60,010379003 suppliert, supplier2) 67153 10133883 60,010379003 suppliert, supplier2) 67153 10104908 60,010379003 suppliert, supplier2) 67153 98313865 60,010232124 67153 100259418 60,0102324274  | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test dale Transaction hash 2023-02-07 0x884-17x07235501-bies270sale89980K0ccc1st7er6c2e11146467254-26fcde 0x555ce8t07-000c77821491c5651-el0b5ds071ab778ce01ab15eb4554440355k-9 0xc2s39se8x30c1ar796s4211c0719402511ad544-d684283879195021334K2964 Average  Test date Transaction hash 2023-02-07 0x864ce1d1d58658778725s61891476c2bas7757c5d8098a779a52876149208a9192 0x75eb4778051a38c09aa378c718cc774c458s3237873133644b344943396996 Average   | 1992/477   97337879   0.0344AFF31 Che14affs453F0078CE800cc13   gasUsed (unit) gasPrice (eve)   ETH price   101044976   6.0010408746   74753   101044970   6.0010408746   74753   101044970   6.001042398   eve readers (actions). One for 107539   101045901   6.001042398   every readers (actions). One for 100727898   6.001043900 extend free user (instrudent of 101045901   6.001043900   6.001043   | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test dalle Transaction hash 2023-02-07 0x88417b072359511b68270dalle98880f05cc1ts/TekCab 111d4967254e28cbda 0x50968700000000000000000000000000000000000   | 1984/77 9733789 0.0344/FF31Ch=16af9af53F0078CE80cc13 gastUsed (unit) gasPrice (eve) ETH price 675151 010024978 0.0010409410 7, manascione for dioring pub 675153 1010469001 60.010472398 (every readers (addrs)), One for 675153 1010726788 0.0010737000 exh. of the users (manifact 675153 101035883, 0.0010479008 (evr) group block 675153 96913885 0.0010222124 675153 100025918 0.00102242124 675153 100025918 0.001023624 (Tayracides) (address), One for 67515 100025918 0.001005681 supplier(2) main   | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test dale Transaction hash 2023-02-07 0x884-17x07235501-bies270sale89980K0ccc1st7er6c2e11146467254-26fcde 0x555ce8t07-000c77821491c5651-el0b5ds071ab778ce01ab15eb4554440355k-9 0xc2s39se8x30c1ar796s4211c0719402511ad544-d684283879195021334K2964 Average  Test date Transaction hash 2023-02-07 0x864ce1d1d58658778725s61891476c2bas7757c5d8098a779a52876149208a9192 0x75eb4778051a38c09aa378c718cc774c458s3237873133644b344943396996 Average   | 1992/477   97337879   0.0344AFF31 Che14affs453F0078CE800cc13   gasUsed (unit) gasPrice (eve)   ETH price   101044976   6.0010408746   74753   101044970   6.0010408746   74753   101044970   6.001042398   eve readers (actions). One for 107539   101045903   6.0010432398   every readers (actions). One for 101037883   6.0010419000   every -0.13000   6.0010432394   6.   | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test dale  | 1992/477   97337879   0.0344AFF31 Che14affa4f53F0078CE800cc13   gasUsed (unit) gasPrice (eve)   ETH price   101044976   0.001040976   0.0010   | ETHEUR 07 feb 2023 (adj. close, source: Nr<br>€1.534.23   | € 0,25275181680117900000 |  |  |  |
| Test dalle Transaction hash 2023-02-07 0x88417b072359b11be870dale98980905cc11b7e6c2e1111d4947254e28cb6a9 acc50member70d0c778124191d59655610b5d9507ab778ec62a111d4947254e28cb6a9 acc2a98ee0b0411ca79864211c0119462511ad544c46642893791990213344284 Average  Test dalle Transaction hash 2023-02-07 0x456e461d169859877725481981476c54597275d8969a779485387614928b acc2a98427076b1a38c05aa78e716c774c4585326781313884b344594398998 Average 2023-02-07 0x4678eea862297974c5c65866251c46e4154698e266e5658300cbcad2129700 ac78974c46655862614656566251466e41546986666665685300cbcad2129700 ac78974c466756662514656641473562998565004124ae1672562600cbcad2129700 ac78974c466756662514656641473562998565004124ae1672562600cbcad2129700 ac78974c466756662514656641473562998565004124ae1672562600cbcad2129700 ac78974c466756662514656641473562998565004124ae1672562600cbcad2129700 ac78974c466756662514656641473562998565004124ae1672562600cbcad2129700   | 1994/77   97337891 0x344AFF31Che1eafadf35F0078CE80cc13   gastbaed (unit)   gastPrice (we)   ETH price   176753   101049796   E0010409781   Transactions for storing puls   67153   101049706   E0010409781   Transactions for storing puls   67153   101049706   E0010409789   Transactions for storing puls   67153   10103588.3   E0.01041900   End. (price (unit)   gastPrice (wei)   ETH price   176753   100259181   E0.010232124   Transactions for storing puls   67153   100259181   E0.010232124   Transactions for storing puls   67153   100259181   E0.010232124   Transactions for storing puls   67153   101059181   E0.01032362   Transactions for storing puls   67153   101059181   E0.01032062   Transactions for storing puls   67153   101059181   E0.01032078   End. (price (unit)   End. (unit)   Ed.    | ETHEBUR 07 feb 2023 (adj. close, source: Nr. €1.534.23 (arg. close, source: Nr. €1.534.23 (arg. close, source: Nr. 61.634.23 (arg. close, source: Nr. 61.63 | € 0,25275181680117900000 |  |  |  |
| Test dalab Transaction hash 2023-02-07 0x884 Th072735051196:3706a898980000cct187e4c2e 11164497264-28fcdnin 0x5506e870700c77821491c5651405565071a8778ee0a915e4455544403556-9 0xc25396e802611a70964211c0719462511ad54446684289379196213348294 Average  Test date Transaction hash 2023-02-07 0x6646141656827178725618918914194043659110916923049192 0x76e919128066506383313723310c26981814194043659110916985989192 0x76e9197280613806983718725618914910436369179658879489391992 0x76e919728061380698371872561891491043636917965869819999 0x76e9197280613806983718725619561956774648532679919858596199999 0x76e91986989999999999999999999999999999999   | 1994/77   97337891 0x344AFF31Che1eafadf35F0078CE80cc13   gastbaed (unit)   gastPrice (we)   ETH price   176753   101049796   E0010409781   Transactions for storing puls   67153   101049706   E0010409781   Transactions for storing puls   67153   101049706   E0010409789   Transactions for storing puls   67153   10103588.3   E0.01041900   End. (price (unit)   gastPrice (wei)   ETH price   176753   100259181   E0.010232124   Transactions for storing puls   67153   100259181   E0.010232124   Transactions for storing puls   67153   100259181   E0.010232124   Transactions for storing puls   67153   101059181   E0.01032362   Transactions for storing puls   67153   101059181   E0.01032062   Transactions for storing puls   67153   101059181   E0.01032078   End. (price (unit)   End. (unit)   Ed.    | ETHEBUR 07 feb 2023 (adj. close, source: Nr. €1.534.23 (arg. close, source: Nr. €1.534.23 (arg. close, source: Nr. 61.634.23 (arg. close, source: Nr. 61.63 | € 0,25275181680117900000 |  |  |  |
| Test dalle Tramsaction hash 2023-0.07 ox1844 Th.072735591 teles.270daib@f880f010cc11sTelec2e1111d4947254-e28t-b68 ox1507b017b017b017b017b017b017b017b017b017b0   | 1994/77   97337891 0x344AFF31Che1eafadf35F0078CE80cc13   gastbaed (unit)   gastPrice (we)   ETH price   176753   101049796   E0010409781   Transactions for storing puls   67153   101049706   E0010409781   Transactions for storing puls   67153   101049706   E0010409789   Transactions for storing puls   67153   10103588.3   E0.01041900   End. (price (unit)   gastPrice (wei)   ETH price   176753   100259181   E0.010232124   Transactions for storing puls   67153   100259181   E0.010232124   Transactions for storing puls   67153   100259181   E0.010232124   Transactions for storing puls   67153   101059181   E0.01032362   Transactions for storing puls   67153   101059181   E0.01032062   Transactions for storing puls   67153   101059181   E0.01032078   End. (price (unit)   End. (unit)   Ed.    | ETHEBUR 07 feb 2023 (adj. close, source: Nr. €1.534.23 (arg. close, source: Nr. €1.534.23 (arg. close, source: Nr. 61.634.23 (arg. close, source: Nr. 61.63 | € 0,25275181680117900000 |  |  |  |
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| Test dalle Tramsaction hash 2023-02-00 of 98417bc7273559116e370sab89980000cc1187e4c2e111164987254e28cb6a acceptation of 1000 o | 1982477 9733780 IO.3644AFF31Che1eaflasf35F0078CE800cc13 gastUsed (unit) gasPrice (we) ETH price 175151 101048706 C0.0010408181 Transactions for storing pub 67153 101048901 C0.001047399 key readers (action). One of 67153 101048901 C0.001047399 key readers (action). One of 67153 101036893 60.0010479000 suppliers (action). One of 67153 100259418 60.0010232142 67153 100259418 60.0010232142 67153 100259418 60.0010239424 Transactions for storing pub 67153 100259418 60.0010239428 Transactions for storing pub 67153 100259418 60.001079788 each of the user (manufact 67153 100259418 60.0010777984 67153 100402398 60.0010777984 67153 100402398 60.0010777984 67153 100402398 60.0010777984 Transactions for the storing 67153 100402398 60.001077988 Transactions for the storing 67153 100402398 60.0010777988 Transactions for the storing 67153 100402398 60.001077988 Transactions for the storing 67153 100402398 60.001077988 Transactions for the storing  | ETHEBUR 07 feb 2023 (adj. close, source: Nr. €1.534.23 (arg. close, source: Nr. €1.534.23 (arg. close, source: Nr. 61.634.23 (arg. close, source: Nr. 61.63 | € 0,25275181680117900000 |  |  |  |
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|                                     | Final cost ETH € 0,00000023062030097             | € 0,000000143373111624 € 0,00022332389389000700  Final cost ETH Final cost € | € 0.000000143373111824 € 0.00022332989369000700  Final cost ETH Final cost € € 0.00002033602300000744 € 0.00035922340580014100  JR 08 Reb 2022 (adj. close, source: https://imance.yathoo.com/quotle/ETH-EUR/hestory) | € 0,000000143373111624 € 0,00022332989359000700  Final cost ETH Final cost € € 0,0000203000000000000000000000000000000 | € 0,000000143373111624 € 0,0002233289359000700  Final cost ETH Final cost € € 0,000020302000007600  € 0,000000000000000074€ € 0,000000000000000000000000000000000 | € 0.000000143373111624 € 0.0002233298955900700  Final cost ET   Final cost € € 0.00002302309959000700  € 0.00000000000000000000000000000000 |

| 0x21f505ab4c677985b73b251db0f68755ee06a4cb717f2521b7cbd9f4e09f5b28             | 67688            | 7085076        | €0.000747005        | Transactions for the storage of<br>the public keys. 5th action of the<br>authorities (each of them: one<br>transaction per authority)       |  |                                  |                 |   |  |  |  |  |
|--|------------------|----------------|---------------------|---|--|----------------------------------|-----------------|---|--|--|--|--|
| 0xfbe8c28f9ecc3ca7e35ae25ee1af6cbfcd1410050692ba935cae73e2ee202415             | 67688            | 6806273        | €0.000717609        | the public keys. 5th action of the  |  |                                  |                 |   |  |  |  |  |
|  | 07000            | 0000270        | 00,000717000        | authorities (each of them: one  |  |                                  |                 |   |  |  |  |  |
| Average  | 67688            | 6074624,25     | €0,000640469        | transaction per authority)  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-08 0x9c7f8645254b90207a6a9aa7f2d03540e21e896aac5452f4c2cbe71626c013b6  | 89772            | 6796510        | €0,000950373        |   |  |                                  |                 |   |  |  |  |  |
| 0x4b3ced573086ea56da3296084da0e02341b67915fc0ae018c06ae16cd4eb7044             | 89772            |                | €0.000897927        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 0x5073d390c969d4209cf7c9d6cdb3012b47b1a55c337d5b5e24ee242010032b73             | 89772            |                | €0,000855804        |   |  |                                  |                 |   |  |  |  |  |
| 0xc2602847b3af82c6a6e5913ab1586627d32bf19f8013424929b951e87fc2e9d9             | 89772            | 5648576        | €0,000789854        |   |  |                                  |                 |   |  |  |  |  |
| 0x192f87f9a419a13ac8e83f31419d287ff1a33606c1ba7f6232a3cdef76a015e6             | 89772            | 4769735        | €0.000666964        | Transactions for the storage of<br>the IPFS link. Action 2.4 of the<br>MARTSIA approach   |  |                                  |                 |   |  |  |  |  |
| Average  | 89772            | 5951296        | E0 000832184        | MARTSIA annonach  |  |                                  |                 |   |  |  |  |  |
| Avelage  | 03/12            | 0001200        | CO,000002104        | na cron apprount  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-08 0x9dad5ce7c9e1bac01788eea97195152a5f4ebc9c92b7ca24f2a0bbc1d9334cfa  | 21832            | 5261456        | €0,000178923        |   |  |                                  |                 |   |  |  |  |  |
| 0x95c3af937fef2007a7c8ac68d5a2dd2ba2b7de6d85dd35082648c82a3c745640             | 22056            | 5148523        | €0.000176879        | Transactions for passing the key.   |  |                                  |                 |   |  |  |  |  |
| Average  | 21944            | 5204090 E      | 60.000177011        | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 1st auth   |  |                                  |                 |   |  |  |  |  |
| Avelage  | 21044            | 0204909,0      | 60,000177911        | key on block. 1st auti  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-08 0xed4ac227993cc8aac54d42ce23f182d6a855ac68dc0c6795bf5e7eefbb8e97c2  | 21832            | 5141340        | €0,000174838        | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 2nd auth   |  |                                  |                 |   |  |  |  |  |
| 0x9261ad9527db2fc9bce7f2e6b15a8e8ae8f3d8aba3f97559446b3fa0614a2766             | 22056            | 5100991        | €0.000175246        | Transactions for passing the key.   |  |                                  |                 |   |  |  |  |  |
| Average  | 21944            | E12110E E      | 60.000176046        | Pair of transactions: key request,  |  |                                  |                 |   |  |  |  |  |
| Average  | 21044            | 3121103,3      | €0,000173040        | key on block. 2nd addi  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-08 0x80b86eb7d0d5d09f5b87fee3a117396b38109c3d32b36c65766d17c3f879c839  | 21832            | 4876282        | €0,000165825        | Transactions for passing the key. Pair of transactions: key request,  |  |                                  |                 |   |  |  |  |  |
| 0x7b059901af38d2942a5a36390e33a6fb52f9db2e7560dca96e05b12eeddcb6ee             | 22056            | 5413451        | E0 000185981        | Transactions for passing the key.   |  |                                  |                 |   |  |  |  |  |
| Average  | 21944            |                |                     | Pair of transactions: key request,  |  |                                  |                 |   |  |  |  |  |
| Average  | 21944            | 5144866,5      | €0,000175856        | key on block. 3rd auth  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-08 0x61daad6f47f5a3e764421d8643550b4d27e0669fc867808fc9eb7774101a5751  | 21832            | 5195272        | €0,000176672        |   |  |                                  |                 |   |  |  |  |  |
| 0x46835665103f678990bb72001688ac02d76955df3c85a2cb76b77042d5d2ea9a             | 22056            | 6106598        | €0,000209794        | Transactions for passing the key. Pair of transactions: key request,  |  |                                  |                 |   |  |  |  |  |
| Average  | 21944            | 5050000        | 60.000103151        | ran or transactions: Key request,   |  |                                  |                 |   |  |  |  |  |
| vverage  | 21944            | 0000935        | cu,uuu 193 154      | key on block. 4th auth  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 transaction hash  | ngel lead (unit) | ngeDring (well | contract address    |   | Final cost FTH                               | Final cost €                     |                 |   |  |  |  |  |
| 0xf2a401rt19eh379f26151a5a5c1c31f25f07ee51693c887509e64349crt432037e           | Generate (mill)  | Para Inc (McI) | Out of a control of | 28Ed7f8FF436264FD3522aFa31A   |  | € 0.02425964925049280000         |                 |   |  |  |  |  |
| UX128401019803791201018080C1C31125IU76651693C8875U9664349Cd4320376             | 1692477          | 9429644        | ONNOW3088CRCR       | 20Eu/10FF430204FD35228F831A   | e u,000015959455588188                       | € 0,02425964925049280000         |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 transaction hash  | gasUsed (unit)   | gasPrice (wei) | contract address    | for 'main' (public keys)  | Final cost ETH                               | Final cost €                     |                 |   |  |  |  |  |
| 0x0937c1032eab1f1a074dbf0560f06e43340ad2163e2650a1379055cb39b80841             | 1602477          | 12857670       | 0x79014EB8h-9       | 38B140F11f750Bc2c7136B4AEE8   |  | € 0,03307894867891930000         |                 |   |  |  |  |  |
| 3x0507 0 1002040 11 1007 40010000100043340802 103020008 137 5003003503500084 1 | 10024//          | 12001076       | 50 14F B0UB3        | voi 1 SUDUZU/ ISODMAEEO   | 0,000021701320903402                         | _ 5,0000,00400,00100100000       |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| Test date Transaction hash   | gasUsed (unit)   | gasPrice (wei) | ETH price           |   | ETH/EUR 09 feb 2023 (adj. close, source: htt | tps://finance.yahoo.com/quote/ET | H-EUR/history/) | ) |  |  |  |  |
| 2023-02-09 0xd48b06212aaf4753c8504025aa43ed189bb7e667a5de93278d8c325766731e87  | 67153            | 7014968        | €0,000716073        | Transactions for storing public   | €1.520,08                                    |                                  |                 |   |  |  |  |  |
| 0x47fcc69adcb9bf680ff687464c3a36fb1b1a9243b9821443d414b2441aa7ec98             | 67152            | 6720424        | 60.000698027        | key readers (actors). One for   |  |                                  |                 |   |  |  |  |  |
|  | 67153            | 0725434        | 60,0000000527       | each of the users (manufacturer.  |  |                                  |                 |   |  |  |  |  |
| 0x270d95c9aabbca4b429372926b7b9a255e3a3ee6db8030db0088984c759e1ba0             |                  | 6293371        | €0,000642414        | each of the users (manufacturer,<br>supplier1, supplier2)   |  |                                  |                 |   |  |  |  |  |
| Average  | 67153            | 6679257,667    | €0,000681805        | key_on_block  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| Test date Transaction hash   | gasUsed (unit)   | anaDrine (wai) | ETH origo           |   |  |                                  |                 |   |  |  |  |  |
|  | gasoseu (unit)   | gastrice (wei) | ETH plice           |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0xdab7831f1acd8b17d944e420554762eff3df2f44e725fd0aa9b884c4ae1ec3aa  | 67153            | 12620077       | €0,001288231        |   |  |                                  |                 |   |  |  |  |  |
| 0x6e93317b88a551bcf0bd3ad991600fb4cd38994575e082595d212d700705aa10             | 67153            | 12804111       | €0,001307017        | Transactions for storing public<br>key readers (actors). One for<br>each of the users (manufacturer,<br>supplier1, supplier2) main          |  |                                  |                 |   |  |  |  |  |
| 0x3966d2c304ed0bfb0b25fa8d76d5290843d2e7d6b098c5bbda752988972791f7             | 67153            | 12541954       | €0.001280257        | key readers (actors). One for   |  |                                  |                 |   |  |  |  |  |
| Average  | 07450            | 40055000.07    | CO.004004005        | each of the users (manufacturer,  |  |                                  |                 |   |  |  |  |  |
| Average  | 0/103            | 12000380,07    | €0,001291835        | supplier i, supplier2) main   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x9b7a091bc6e08071a841215f1ba9ff8fea4fb4c654f4b7c9f186b9f1e947e52a  | 67533            | 7400859        | €0,000759739        |   |  |                                  |                 |   |  |  |  |  |
| 0x1384723ceeee2807dcfea0044a88bb0bae83efc0652d65a89ed5bb0bb2c66b70             | 67533            |                | €0.000599817        |   |  |                                  |                 |   |  |  |  |  |
| 0x54df645f7c109aeef185d378277e71ff6674cecd6bdeed1fd0017a93c0b47450             | 67533            |                | €0,000609513        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 0xce8976f51bdd75c0d53a45b9807c785a0befebc4ff93a3bac056db013b2f80e2             | 67533            | 6101947        | €0,000626399        | T   |  |                                  |                 |   |  |  |  |  |
| 0x21192f75fb76db1571f206283ac114c8f0da5868c43e3c046d3286c02bb9ddd0             | 67533            | 6210763        | €0.000637569        | Transactions for the storage or   |  |                                  |                 |   |  |  |  |  |
| Average  | 67533            | 6208805.8      | ED 000646607        | Transactions for the storage of<br>the user's attributes. Action 1 of<br>the MARTSIA approach   |  |                                  |                 |   |  |  |  |  |
| Avelage  | 07533            | 0250000,0      | 60,000040007        | ше мисстои аррговоп   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x2dae85a6b5d461af345ca5a0f3112b16fd93ac09612cfcb11838403a05da046e  | 67755            | 4849807        | €0,000499496        |   |  |                                  |                 |   |  |  |  |  |
| 0x4a016bbfdf14c7abae26a089da47b8e82b38fac18b7538156fe21fcc5a20d382             | 67755            | 5025669        | €0,000517609        |   |  |                                  |                 |   |  |  |  |  |
| 0x7bb996e7f16291b163bb6499656140c20fac102d42230557123ea1d6c647bc0b             | 67755            | 4611835        | €0.000474987        | Transactions for the storage of   |  |                                  |                 |   |  |  |  |  |
|  |                  | 4011000        | 0,000414001         | the authorities' names. 1st action  |  |                                  |                 |   |  |  |  |  |
| 0xc4bc039a0a766a715f71292aba621ae857673a2b06505db92069393a8cf9f050             | 67755            | 4413/32        | €0,000454584        | Transactions for the storage of<br>the authorities' names. 1st action<br>of the authorities (each of them:                                  |  |                                  |                 |   |  |  |  |  |
| Average  | 67755            | 4725260,75     | €0,000486669        | one transaction per authority)  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x0922c23h00e69dd4d2f8ahhf396e587f4cf7e35ea5ca15071a5d2f3efc2c9086  | 113680           | 4000000        | €0.000706419        |   |  |                                  |                 |   |  |  |  |  |
| 0xcc84e74881eh59530348444h30247401051709fcx113f79f734438f75f891463h            | 113680           |                | €0,000700413        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 0x995191ac5d18f130331cd74f746e0884a49bb98b99dcca48f53a5440a413d3d2             | 113680           | 3656522        | €0,000631857        | Transactions for the storage of   |  |                                  |                 |   |  |  |  |  |
| 0xe60a179e5f8d4e9996e3966fd5b395ff58a49cc3c5fea30f49a2607965fae404             | 113680           | 3465568        | €0,000598859        | the hashed elements. 2nd action of the authorities (each of them:   |  |                                  |                 |   |  |  |  |  |
| Average  | 113680           | 3765896        | €0.000850757        | one transaction per authority)  |  |                                  |                 |   |  |  |  |  |
|  | 115560           | _, 0.0030      | ,3000101            | por addronty)   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x2bb973b05bdb713d4071b1b3db0bcbe02ea0e627cf557380c593f0699c3e5325  | 159693           |                | €0,000808111        |   |  |                                  |                 |   |  |  |  |  |
| 0x51dd56bca09d7ee5ed06cd8bc1aef638eb94fa025111b814418fb385fa7b0bf7             | 159693           |                | €0,000800359        |   |  |                                  |                 |   |  |  |  |  |
| 0x53149a66c256f98dc963872d373d254e5ffaddcfbf340db4bf891e978939096f             | 159693           | 3213799        | €0,000780137        | Transactions for the storage of   |  |                                  |                 |   |  |  |  |  |
| 0x169eb2a0cf7ee48019b3a8c0edf4bbb4d861590fa51759234b6be1203493e448             | 159693           | 3151294        | €0,000764984        | the elements. 3rd action of the<br>authorities (each of them: one   |  |                                  |                 |   |  |  |  |  |
| Average  |                  | 3247808 75     | €0.000788303        | transaction per authority)  |  |                                  |                 |   |  |  |  |  |
| g-   | 100000           | 3241000,10     | 23,000,00353        | - a - a a a a a a a a a a a a a a a a a   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x1203eead21d58cfea238d13c6409d10aea7e02fb8dd30ed4ee6a7be101d47378  | 67731            |                | €0,000308942        |   |  |                                  |                 |   |  |  |  |  |
| 0xc3ee41c3fcce612c9667e6e4579d6204df4d12adc29cdb56c7b8441784a81790             | 67731            |                | €0,000306378        |   |  |                                  |                 |   |  |  |  |  |
| 0xc1290794cc757fd4214dc5301dbffa5a260d7af725bbb3d747adeac115633725             | 67731            | 2928551        | €0.000301513        | Transactions for the storage of   |  |                                  |                 |   |  |  |  |  |
| 0x9b849ba789c98c35c4f07ab7628424e5637164e18d3398fea333b5bd34161e0a             | 67731            | 2052005        | 60.000202770        | Transactions for the storage of<br>the public parameters. 4th action<br>of the authorities (each of them:<br>one transaction per authority) |  |                                  |                 |   |  |  |  |  |
| JADU040UA (00C00C30C4IO (AU) 0204246003 / 1046 1003390168333000034101608       |                  | ∠603365        | cu,uud2931/3        | of the authorities (each of them:   |  |                                  |                 |   |  |  |  |  |
| Average  | 67731            | 2939604,5      | €0,000302652        | one transaction per authority)  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x6c06da2ea005a66d35607b82e4e3441cfbdfa6aec4567e5cf493ad2760379e33  | 67688            | 2832486        | €0,000291438        |   |  |                                  |                 |   |  |  |  |  |
| 0xa0e7e42325a700f0f7f014cd1a659722e70ac2dd8564a8920553a905ceb07ec9             | 67688            |                | €0,000291844        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 0x47446f3358f1982fc02bf89f3034029ef8a90eb224f2b5b0a47ecc755e9708a5             | 67688            | 2841758        | €0,000292392        | Transactions for the storage of   |  |                                  |                 |   |  |  |  |  |
| 0xd60ad9a80ad2058094cea974f66f7e5fef530031aac91cf03fc3088e3b881c26             | 67688            | 2823872        | €0,000290552        | the public keys. 5th action of the<br>authorities (each of them: one  |  |                                  |                 |   |  |  |  |  |
| Average  | 67688            | 2833637.5      | €0.000291558        | transaction per authority)  |  |                                  |                 |   |  |  |  |  |
|  | 5,000            | 2000001,0      | _3,000231330        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x2ec9ab4d12ec1e114d577e879883d1c81f29b305d2832e72a1fa03905890d505  | 89772            | 2785651        | €0,000380132        |   |  |                                  |                 |   |  |  |  |  |
| 0xd60addc171992a8e5285fbac10023621a40cdb276062d59a1ebeddef36ccae11             | 89772            | 2770875        | €0,000378115        |   |  |                                  |                 |   |  |  |  |  |
| 0x6e493365077f1f41fb953e538b53c3514ee3396a03cf6c869e0f5b68caab7e05             | 89772            |                | €0,000374896        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 0x3476a2742647d3e399d388ef97604092e98f3e20e7913b340623ee5f0f10be2e             | 89772            | 2747598        | €0,000374939        | Transpositions for the other  |  |                                  |                 |   |  |  |  |  |
| 0x38083e24bbc0d054e0302b4e63a5810c6eb8dd3dc98575de3f23b708e98b95b8             | 89772            | 2745109        | €0,000374599        | Transactions for the storage of<br>the IPFS link. Action 2.4 of the   |  |                                  |                 |   |  |  |  |  |
| Average  |                  | 2750303 0      | E0 000376590        | MARTSIA approach  |  |                                  |                 |   |  |  |  |  |
| . meruge   | 09112            | 2,00000,0      | 20,000370030        |   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x0cdc435d4306fea0804e355773774fd68cf52db1af51437af5903f2e71f4b5e9  | 21848            | 2699577        | €0,000089655        | T   |  |                                  |                 |   |  |  |  |  |
| 0xddf56753677c095e9116237977c3081ececaccf40a9b2a91e4517c7640ba0969             | 22072            | 2694186        | £0.000090393        | Transactions for passing the key.<br>Pair of transactions: key request,   |  |                                  |                 |   |  |  |  |  |
| Average  | 21960            | 2004130        | 60 00000000         | ran or transactions: Key request,   |  |                                  |                 |   |  |  |  |  |
| Average  | 21980            | ∠096881,5      | eu,uud090024        | key on block. 1st auth  |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     |   |  |                                  |                 |   |  |  |  |  |
| 2023-02-09 0x9065bcec95a6653f0c55c5744de29114e433a08dd99004cb24c132fe87554faf  | 21848            | 2691247        | €0,000089378        | Transactions for passing the key.<br>Pair of transactions: key request,   |  |                                  |                 |   |  |  |  |  |
|  |                  |                |                     | Transactions for passing the key.   |  |                                  |                 |   |  |  |  |  |
| 0v00835040424048477006440241424084924492440224844424924                        | 22072            | 2070704        |                     |   |  |                                  |                 |   |  |  |  |  |
| 0x998359c0ce2c048c77006ec9a21b2e06d3f3afcff3180334fbcb3cf0388ddd89             | 22072            | 2678781        | €0,000089876        | Pair of transactions: key request,  |  |                                  |                 |   |  |  |  |  |

|   | r sin or manusciona, ney reques  |   |  |  |  |
|---|--|---|--|--|--|
| Average   | 21960 2685014 €0,000089628 key on block. 2nd auth  |   |  |  |  |
| 2023-02-09 0x3dad293895deac2a0a63008bedb2d1bdf0dbab8e8938d69eaf1b87e408f58854   | 21848 2678903 €0.000088968   |   |  |  |  |
| 0xeaa04879f504b8ac022441cbf2d23bd2aee6df1c2ba26abe5e602121098a426f  | 21848 2678903 €0,000088988 Transactions for passing the ket 22072 2689595 €0,000089568 Pair of transactions: key reques  |   |  |  |  |
| Average   | 21980 2674249 €0,000089269 key on block. 3rd auth  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-09 0x90495361967ccaeb8b5c33cc0a9e8088c6f1fb8451aa84c49272c1d80f7451a1 0xe8ad68234bcf96cd74a81b2efd6d32054874370fdea67c61bf53b73b15200ed0    | 21848 2671701 €0,000088729<br>22072 2668411 €0,000089528 Pair of transactions: key reques  |   |  |  |  |
| 0xe8ad68234bcf96cd74a81b2efd6d32054874370fdea67c61bf53b73b15200ed0<br>Average   | 22072 2668411 €0,000089528 Pair of transactions: key reques<br>21960 2670056 €0,000089129 key on block. 4th auth   |   |  |  |  |
| , monage  | 2070000  |   |  |  |  |
|   |  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 transaction hash 0xhfa657d0hd8e916hd3e940d57342ad5fd5f9d2eh4ee9061f13ehh26d86281e56  | gasUsed (unit) gasPrice (wei) contract address   |   | Final cost €                                   |  |  |
| 0xbfa657d0bd8e916bc3e940c57342ad5fd5f9d2eb4ee9061f13ebb26d66281e56  | 1692477 5267055 0xA501Bcac8026310896295263CB0751381667/  | 899 € 0,000008914369445235                  | € 0,01288411644658710000                       |  |  |
| 2023-02-10 transaction hash   | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)  | Final cost ETH                              | Final cost €                                   |  |  |
| 0x7c3945fbae4684f532f858c860252554c9e3d8d11e98fecf21be4597bd2dd8ac  | 1692477 5267731 0x34E15cfAe586546aE3edeF536C7dd2C62D80   |   | € 0,01288577005808680000                       |  |  |
|   |  |   |  |  |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price  | ETH/EUR 10 feb 2023 (adj. close, source: ht | ps://finance.yahoo.com/quote/ETH-EUR/history/) |  |  |
| 2023-02-10 0xa87d55d01362d21094661ad8d28f4d6c3e8319ca358adbf730f10d7b6e8fe43e<br>0xe9d6cc7963f28b2cc301f8a309dc6a4c219159a36f798b1b30d2376609dbff60 | 67153 5266825 €0,000511185 Transactions for storing public key readers (actors). One for   | €1.445,32                                   |  |  |  |
| 0xe25db1a943c0bf992cdb55613c54fa099283a2f1762579f39ce9d0698bee227f  | 67153 5266673 €0,000511171 such of the users (manufacturer supplier1, supplier2)   |   |  |  |  |
| Average   | 67153 5266772,667 €0,000511180 key_on_block  |   |  |  |  |
|   |  |   |  |  |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price  |   |  |  |  |
| 2023-02-10 0x2caa6ffe4f655ee47574ae55b3700a678d43a7f7ea9895208e96cae2ee964703<br>0x005a19a9f93e0aaf86e5a1fb2bbeec527b06631b37ca78f2471d24feba73ef45 | 67153 5266825 €0,000511185 67153 5266822 €0,000511185 Transactions for storing public  |   |  |  |  |
| 0x005a19a9f93e0aaf86e5a1fb2bbeec527b06631b37ca78f2471d24feba73ef45<br>0xce60b7477ae341bd1b6305585c647643e537f50817debdb8e63a8dfed084d166            | 67153 526822 €0,000511185 Transactions for storing public<br>67153 5267038 €0,000511206 key readers (actors). One for<br>each of the users (manufacturer   |   |  |  |  |
| Average   | 67153 5266895 €0,000511120 each of the users (manufacturer supplier1, supplier2) main  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0x58d6c762dcd933987c5eb7bd0b817525f46df84f459c0df59372973d16267146   | 67533 5266529 €0,000514049   |   |  |  |  |
| 0xc12f3b8ae12feaf478305b80cfb30a3e0f909143c604a9eb0e4981ff07a5dbd4<br>0xa06d72578af46de7c1e0dadebbb3c2be9b23ef8bd422e87f422accc551ade9bf            | 67533 5286504 €0,000514047<br>67533 5286432 €0,000514040   |   |  |  |  |
| 0xa06d72578af46de7c1e0dadebbb3c2be9b23ef8bd422e87f422accc551ade9bf<br>0xc67cb7e1a2dd0bf105e46aa58a7a003a47001d4c6520305569e2de2c43717d93            | 07500 5000477 50 000544044   |   |  |  |  |
| 0x65bd00c2d42a1b763f5790bede953a7f014ef9d3051a95408d82eaa625a4cbab  | 67533 5268462 €0,000514042 Transactions for the storage of the user's attributes. Action 1 of  |   |  |  |  |
| Average   | 67533 5266480,8 €0,000514044 the MARTSIA approach  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0x/8b263628ee47a801a4498641080e794e2a9a7e135271f00c714819737171b9a 0x1b6bad621630bc3a0822c4d7c60a7a53440b92fdd0e59db5e5d1bf3ef3d7cf31    | 67755 5266403 €0,000515727<br>67755 5266457 €0,000515732   |   |  |  |  |
| 0x334e890f4da670447d497cad4eh71830674a09h86773f2c4fehcdc1a7cc39187  | 67755 5266445 €0,000515732 Transactions for the storage of   |   |  |  |  |
| 0x782183b8d168910c8b9f493e5b60ed2650136c045462a5529649e3fce8bca0c9  | 67755 5268405 €0,000515727 the authorities' names. 1st action of the authorities (each of them:  | 1   |  |  |  |
| Average   | 67755 5266427,5 €0,000515729 one transaction per authority)  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0xf93e280a044913846aa568ee0c1d87c8ae47bc99cab773b5e957126aa2c9f0f3 0x74cch1b518641f7cb67de4dc3d9f3745d9f0649c1ae9dd4fadd7e56d32d970944   | 113880 5286318 €0,000865277<br>113880 5286330 €0,000865279   |   |  |  |  |
| Ux/4ccb1bb18641f/cb6/de4dc3d9f3/45d9f0649c1ae9d4fadd/e56d32d9/U944  0xdfs025807f554288e7fahs3d50d4816d16d53scabdd9e0bcsf6bdf0377efeed6              | 113680 5266330 €0,000865279<br>113680 5266297 €0,000865274 Transactions for the storage of   |   |  |  |  |
| 0x732d0a0b443340bdd28166c1cf5d46ef48717ba16f4363ebc2e6d5cb7b547caa  | 113680 5266301 €0,000865274 the hashed elements. 2nd action of the authorities (each of them:  |   |  |  |  |
| Average   | 113680 5266311,5 €0,000865276 one transaction per authority)   |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0xace9b3e0bff60b5e33ca040b918c4e7cf943b88df9b22d0b2327d35a20893d64 0x1b1f25305a75c0e8d05f1d1450fff9a61e0d0b82c7dd80bbe2b5021b7971e1df    | 159693 5266286 €0,001215498<br>159693 5266288 €0,001215499   |   |  |  |  |
| 0x4145a56c2a0453ea50f295cd16fbc1398ee187a55b8e6e128612a4786f5927c   | 450000 F000040 C0 004045504 Transactions for the storage of  |   |  |  |  |
| 0xcf7b9ede7ede41507b54b0da1bb738d2c8161316e88f367a5de1de68e5769e3e  | 159693 5266336 €0,001215510 the elements. 3rd action of the authorities (each of them: one   |   |  |  |  |
| Average   | 159693 5266305 €0,001215503 transaction per authority)   |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0x698a724e07eac98f57dae51832ba370e1bda67a56e46b1ef0aaa15a0c1516b7e<br>0x47cfa208f1340201ac9a3f763fc45313fab6b127d31a294b48515b09abeed77c | 67731 5266320 €0,000515536<br>67731 5266341 €0,000515538   |   |  |  |  |
| 0x09434873cf8f82558a4e506d73fb348146580a205d96363468c9688bf7122576  | 67731 5266331 €0,000515537 Transactions for the storage of   |   |  |  |  |
| 0x6be8f6313429b17e5a6293cf898ecf7244474c5f4efd4a9e6cb710e4cb24cb55  | 67731 5266331 €0,000515537 Transactions for the storage of the public parameters. 4th actio 67731 5266339, €0,000515540 of the authorities (each of the 36731 5266339, €0,000515538 one transaction per authority) | ,   |  |  |  |
| Average   | 67731 5266339,5 €0,000515538 one transaction per authority)  |   |  |  |  |
|   | 67688 5266335 €0.000515210   |   |  |  |  |
| 2023-02-10 0xd34268001c30172283f5d5143e97c0e959475166650938a013a01a7b30f2c15f<br>0x48f26d258bdbf092c7fd361551f777d57844e640f996869106762d55d95a4d0b | 67688 5266335 €0,000515210<br>67688 5266437 €0,000515220   |   |  |  |  |
| 0x1179b375101ee417928e2d37031a66dafa4562147b98e2efd0b29aa4c237bd63  | 67688 5266498 €0,000515226 Transactions for the storage of   |   |  |  |  |
| 0x71d9a57927a6ab4e464b2b2e1e04aed239e3b2ad37bbca4fced4666b6f3f8d19  |  |   |  |  |  |
| Average   | 67688 5286458,5 €0,000515222 transaction per authority)  |   |  |  |  |
| 2023-02-10 0x4d6f5846e792397ed2b134e227550cf39967350aee993182f1ceed0f8a618f96   | 89772 5266682 €0,000683348   |   |  |  |  |
| 2023-02-10 0x4q00b040e792397e02b134e227550c139967350dee993162f1ceed0fb8016f96 0xa521c12f28badc19fb516edef1a322a970adb29a7bc1a26699047125b3bc634d    | 89772 5266800 €0,000683363   |   |  |  |  |
| 0x4e020c9799ab075666a6cac9c81768bd3ade3b1a20b8ca6f6f10838580233589  | 89772 5266717 €0,000683353   |   |  |  |  |
| 0x994f24da3167ff21d7a182a2e4877bb14f70105a31b7799ba20c4691dada9988  | 89772 5266647 €0,000683344<br>Transactions for the storage of  |   |  |  |  |
| 0x98b11bb577c41145ac606053fa300be30740717488d93806d0dcfd66046bc020<br>Average   | 89772 5266565 €0,000683333 transactions for the storage of the PFS link. Action 2.4 of the 89772 5266682,2 €0,000683348 MARTSIA approach   |   |  |  |  |
| ·weage  |  |   |  |  |  |
| 2023-02-10 0xa4c552c78c73179eb460aa82b7ad6da8001c1f9e21b13d29dfb3aa5dbc58afae   | 21832 5266581 €0,000168183  22056 5266520 €0,000167886 Transactions for passing the key 21944 5286550 5 €0,000167034 key no high 15 study.   |   |  |  |  |
| 0xe7c6bd2286127656c5238d854b24ea4e969fb7efda6d0a3887c020bf526030d2  | 22058 5266520 €0,000167886 Transactions for passing the ker<br>Pair of transactions: key reques  |   |  |  |  |
| Average   | 21944 5266550,5 €0,000167034 key on block. 1st auth  |   |  |  |  |
| 2023-02-10 0xd92d099cbc4b2ea1408edff70050a318cd8b86907d505d9794cc32109ff710b1   | 21832 5266534 €0,000166181   |   |  |  |  |
| 0xdf763b5b00d296303b949a190cfa275eefd0500bc0c8d101708669c17072642f  | 22056 5266583 €0,000167888 Pair of transactions key reques   |   |  |  |  |
| Average   | 21944 5266558,5 €0,000167035 key on block. 2nd auth  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0xac3b026cca9cadccdcbdd04d933c731590fc4884f838fdd428c8bdb239ed9079 0xa2fb2b96ffe2cc853cf1fd81d5f2cf2ca3a0b144a16b83fb06453b234748e1e8    | 21832 5266818 €0,000168184<br>22058 5266843 €0,000167890 Pair of transactions for passing the key<br>21944 5266830,5 €0,000167037 key on block. 3rd auth   |   |  |  |  |
| 0x8210209011e200003011f0610512012C838001448100030004030234746e1e6 Average   | 21944 5266630,5 €0,000167037 key on block. 3rd auth  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-10 0x088c2e806284775eae6c4ec444fade5fae0d6013efb459b210442702458bf801   | 21832 5266650 €0,000166185 Transactions for passing the ker  |   |  |  |  |
| 0x4d5178b1dc3a9e4184e3d5bdfc964bd4be79e247c834fc08af71b86f6ec6ef08  | 21832 526850 €0,000168185 22056 5266610 €0,000167889 Transactions for passing the ker 21944 5266630 €0,000167037 key on block. 4th auth  |   |  |  |  |
| Average   | 21944 5266630 €0,000167037 key on block. 4th auth  |   |  |  |  |
|   |  |   |  |  |  |
|   |  |   |  |  |  |
| 2023-02-11 transaction hash   | gasUsed (unit) gasPrice (wei) contract address   | Final cost ETH                              | Final cost €                                   |  |  |
| 0x0864a44a0b65d744c8a5baf201e7b072650b9ebb80dfe26403adfb979d5221de  | 1692477 99997445 0x6D5B03A986442f93f44C54826874D04A46858   | 055 € 0,000169243375721265                  | € 0,24093486967679300000                       |  |  |
| 2023-02-11 transaction hash   | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)  | Final cost ETH                              | Final cost €                                   |  |  |
| 0xee87326db9dcbb4d413df294c74e1f2a12116c56845eedb222dada0edcede492  | 1692477 99997447 0x7DF351501a4Fc9759347eF59A493881fdcfD3   |   | € 0,24093487449561300000                       |  |  |
|   |  |   |  |  |  |

| Test date Transaction hash   | gasUsed (unit) gasPrice (wei) ETH price   | ETH/EUR 11 feb 2023 (adi. close, source; hi | tps://finance.yahoo.com/quote/ETH-EUR/history/ | ) |  |  |
|--|---|---|--|---|--|--|
| 2023-02-11 0x46c3500c41ab9bcc8bcb3dfa87f6f2f7fb6cee1356e1ef047ef6349d107af312  | 67153 99997445 €0.009559657 Transactions for storing public   | €1.423.60                                   |  |   |  |  |
| 0x4cf6534ccd56dc786ac178f9628f2d07a3d2b07fa76c9d1332a5f85bc78bc277   | 67153 99997445 €0,009559657 key readers (actors). One for   |   |  |   |  |  |
| 0xa2ca96d2ff75e705e14118158dd5bdf1fbc781219c7cfd980d47317672aaf409   | 67153 99997445 €0,009559657 key readers (actors). One for each of the users (manufactus supplier 2, supplier 3, supplier 2, supplier 3, s | er,   |  |   |  |  |
| Average  | 67153 99997444.67 €0.009559657 kev on block   |   |  |   |  |  |
|  | 72.2  |   |  |   |  |  |
| Test date Transaction hash   | gasUsed (unit) gasPrice (wei) ETH price   |   |  |   |  |  |
| 2023-02-11 0xdc451795110e20892e9593984bdca887f35afe37fde47082693ff615c807fcef  | 67153 99997447 €0.009559657   |   |  |   |  |  |
| 0xfe95a5e05adc68fd0281d2c77e5521494e8fa9e78b19476dfb0aa7319fd09a30   | 67153 99997447 €0,009559657 Transactions for storing publi  |   |  |   |  |  |
| 0xbcfa3e41d14f4727f5a46d8cf36838f5eaef47401d39bd6225d185650c6ce431   | 67153 99997446 €0,00959657 key readers (actors). One for each of the users (manufactu   |   |  |   |  |  |
| Average  | 67153 99997446,67 €0,009559657 supplier1, supplier2) main   | er,   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0xd297b36dfbb414500f32784cf3ae6fb15d81fad20f9a0710260c85687743277e  | 67533 99997443 €0,009613752   |   |  |   |  |  |
| 0xcab5fcbb9ccbeb8d12dabc46a305b0f34bf48c4e1da4ba7eb669959e62536470   | 67533 99997444 €0.009613752   |   |  |   |  |  |
| 0x262ff27dc6798039d0f13e138eb7b2999e93348cc73d2bce83b9a6d69d4ca64e   | 67533 99997445 €0.009613752   |   |  |   |  |  |
| 0x0d025ccd2c1890298a6557d707456c8df1fb9f049b90418f3253f249b1c2c1bd   | 07500 00007445 50 000040750   |   |  |   |  |  |
| 0xae9263dc5635445961deb7bb72e821187ddb82d0a0c883be94a886f2247472eb   | 67533 99997444 €0,009613752 Transactions for the storage the user's attributes. Action 1  |   |  |   |  |  |
| Average  | 67533 99997444,2 €0,009613752 the MARTSIA approach  | DI .  |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0xe710e4f9c768e96865b1639c94292659bfd1034e8b6ac8833f118163224b1794  | 67755 99997445 £0.009645355   |   |  |   |  |  |
| 0x9b43c59984c61011c4320ad7cdb93d9b363796df81d3b4838f8f76769444df0c   | 67755 99997445 €0.009645355   |   |  |   |  |  |
| 0xd2a1def705dad7f194dc408ae1840f37b419af0df4677e9cc151aee3374d079e   | 67755 99997445 €0 009645355 Transactions for the storage  | 1   |  |   |  |  |
| 0x7bce4b83fba42852348f130833eb13d80b2286a33b236a10c66b4db0e2cfd220   | 67755 99997445 €0,009645355 the authorities' names. 1st ac  | ion   |  |   |  |  |
| Average  | 67755 99997445 €0,009645355 one transaction per authority   | n.  |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0x305478ffada89cb34391c01091d2d77d2366db8b38e3e26fd96c32a2bf963c48  | 113680 99997444 €0,016183071  |   |  |   |  |  |
| 0xb6c3cdfd88de04e68da663fdd20250057e8f46f623c3f09f7383da18c27bfc5a   | 113680 99997443 €0.016183071  |   |  |   |  |  |
| 0x906103b93cae6d19373ecba133d1935f278e6404ade807ca3cc78fb7e56ffa49   | 113880 99997444 €0,016183071 Transactions for the storage to the hashed elements. 2nd ac of the subnities (each of the subnities (each of the subnities (each of the subnities) each of the subnities (each o | 1   |  |   |  |  |
| 0x269c005d82c640534b1a9c6ab58e4ade6b9b5df9c87dc8a7e1d4805d59413012   | 113680 99997444 €0,016183071 the hashed elements. 2nd ac  | ion   |  |   |  |  |
| Average  | or the authorities (each of the<br>113680 99997443,75 €0,016183071 one transaction per authority  |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0x6e8c52f2328b42d9fdb97e89bf00535f04e14a05139f8912310af958859adfff  | 159693 99997444 €0,022733314  |   |  |   |  |  |
| 0x5596da4234eb0c69daa40c546d5159963780825d265fd65416f29e26ed601fa2   | 159693 99997443 €0,022733314  |   |  |   |  |  |
| 0xaba47dcbfa996d6a9bfe68c325e67c592dc272c84e97c59e65911b1465121271   | 159693 99997443 €0.022733314 Transactions for the storage   | f   |  |   |  |  |
| 0x1ed158982bb4bc1ff01ce2a73e63d1c10d836a67354c5905a4e61eac8a032f98   | 159693 99997443 €0,022733314 the elements. 3rd action of the  |   |  |   |  |  |
| Average  | 159693 99997443,25 €0,022733314 transaction per authority)  |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0x1a415f8489baa6ebc878f9ee5bb9687ba032edb8d7e98c6208ffdd2db356a0e5  | 67731 99997444 €0,009641939   |   |  |   |  |  |
| 0xf801d393d2dd6afb0b0af22f85b24ef3caa02997d79a7d98b4eae445917033a3   | 67731 99997444 €0,009641939   |   |  |   |  |  |
| 0x8a8c7ab4b268094be73b05702c000752fbc6ddbe4a4f251fe4271c6f1a3fd830   | 67731 99997445 €0,009641939 Transactions for the storage  | f   |  |   |  |  |
| 0x1099798368bc45f3681bd7c83f865961719f0108a2d8c8ebc18d628ffc1ef5cd   | 67731 99997445 €0,009641939 the public parameters. 4th ac<br>of the authorities (each of the<br>67731 99997444,5 €0,009641939 one transaction per authority   | ion   |  |   |  |  |
| Average  | 67731 99997444,5 €0,009641939 one transaction per authority   |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0xac0968c07a630112a3bb83c5cd0bb228eea01427b28cee2ad2dd7dec01f1b70d  | 67688 99997446 €0,009635818   |   |  |   |  |  |
| 0x28b6e35e37fe309fb27679d79b8bae28dc3362beebeacd46484c4c7b80b8a731   | 67688 99997446 €0,009635818   |   |  |   |  |  |
| 0x696447b577f10496020985b9fa46aa5903a5e7249e70226b86c264beaf899081   | 67688 99997446 €0,009635818 Transactions for the storage  | •   |  |   |  |  |
| 0x4829cb8b58473a24d6ad78cd281f70b983b5f7f7472eafeb85745ab5c989338b   | 67688 99997445 €0,009635817 authorities (each of them: on   | he  |  |   |  |  |
| Average  | 67688 99997445 €0,009635818 Transactions for the storage to the public keys. 5th action of authorities (each of them.) 67688 99997445,75 €0,009635818 transaction per authority)  |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0x8c6f3fd60943eaad050b40808c48482771e7c3c76d878814c8a032a846780c1c  | 89772 99997444 €0,012779615   |   |  |   |  |  |
| 0xe620f6fb67e82235192b6c0e58fe189eab5854292a88879d8453eb648401b4bf   | 89772 99997444 €0,012779615   |   |  |   |  |  |
| 0x94c4cc3651d84a5a9f7a4b7241d65420acef8e88ab47cc3b6070df50ab5ed7f0   | 89772 99997445 €0,012779615   |   |  |   |  |  |
| 0x1975a64817c98ecdb44380307fb0655a388f46154b9562e15a2953acf40be5ef   | 89772 99997448 €0,012779618 Transactions for the storage<br>89772 99997445 €0,012779615 Transactions for the storage<br>89772 99997444,8 €0,012779615 MARTSIA approach  |   |  |   |  |  |
| 0x870b5286b929667d8d20ced0f1bf1806c62e4288b3d851ef14467b945cde3f32   | 89772 99997445 €0,012779615 the IPES link Action 2.4 of the   |   |  |   |  |  |
| Average  | 89772 99997444,8 €0,012779615 MARTSIA approach  |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0xb3f825e7a2ebc471943536e3308c984a4b93d94cb6d27e4ae882ad706c51cc1d  | 21832 99997445 €0,003107924 Transportions for possing the   |   |  |   |  |  |
| 0x05077b838957b6a111a0c82b655db7c33c4f3205552d1a86b89b2c378ce55aa5   | 21832 99997445 €0,003107924 22056 99997445 €0,003139812 Transactions for passing the Pair of transactions: key requ 21944 99997445 €0,003123868 key on block. 1st auth  | ey.   |  |   |  |  |
| Average  | 21944 99997445 €0,003123868 key on block. 1st auth  |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0x82e4cab725b34d882aa93199802a20d318812ce674f622e08149c648eaf7f458  | 21832 99997444 €0,003107924 Transactions for passion the  | ev  |  |   |  |  |
| 0xc449b15de662db90d798565c3eaa7163ab9a6471366f0f5f6e55a587e72e7277   | 22056 99997444 €0,003139812 Pair of transactions: key requ  | 16I,  |  |   |  |  |
| Average  | 21832 9997444 €0,003107924 Transactions for passing the 21944 99997444 €0,003123868 key on block. 2nd auth  |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-11 0xa83618674edd6b8fa78264c1f0aa4253245839e79974dc93f8e649394cbfdb39  | 21832 99997443 €0,003107924<br>Transactions for passing the   | ev.   |  |   |  |  |
| 0x0f188bda83501bf22c23570d581917ebeb26647ad4749f8ad7f951e4f362d6dd   | 22056 99997443 €0,003107924 Transactions for passing the Pair of transactions: key requ   | est,  |  |   |  |  |
| Average  | 21944 99997443 €0,003123868 key on block. 3rd auth  |   |  |   |  |  |
| 2023-02-11 0xd321b34b3b0583b627102719b926af88190be8a6370afbbf4cd5fc3f7f88ee95  | 21832 99997443 €0,003107924   |   |  |   |  |  |
| 2023-02-11 0xd321b34b3b0583b627102719b926af88190be8a6370afbbl4cd5fc3f7f88ee95<br>0xf272d8d210e6040455cd3fad6d054e501ec5550c2d5f5a906c49aba7599c711d  | 21832 99997443 €0,003107924  22056 99997443 €0,003139812 Transactions for passing the   | ey.   |  |   |  |  |
|  | 22056 99997443 €0,003107924 Transactions for passing the Pair of transactions: key requ   | est,  |  |   |  |  |
| Average  | 21844 98997443 EU,UU3123888 Key on block. 4th auth  |   |  |   |  |  |
|  |   |   |  |   |  |  |
|  |   |   |  |   |  |  |
| 2023-02-12 transaction hash  | gasUsed (unit) gasPrice (wei) contract address  | Final cost ETH                              | Final cost €                                   |   |  |  |
| 2023-02-12 transaction hash<br>0x6948576fe48875aef566c5808fc3f95edc00a68d1547ce9b698934ee26978133  | gasUsed (unit) gasPrice (wei) contract address<br>1692477 75476608 0x653C7A81F4cC09A38cbB82690cF5547124   |   | Final cost €<br>€ 0.18440257483427000000       |   |  |  |
| 0x0xx0x/0104001/040100000010310000001047C0000009346820978133   | 1002-477 / 0470000 0X003C7Ab IT-4CC08A36CB8209UCF5047124  | 5.000 0,00012/7424230/8010                  | C 0,10440207403427000000                       |   |  |  |
| 2023-02-12 transaction hash  | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)   | Final cost ETH                              | Final cost €                                   |   |  |  |
| 0xbcccb44bf2784968797b1f173e6cf164dfaa4f97310a84378f98f00d710a79e6   | 1692477 76085131 0xDC41332B5FfB2390C959c808b91868E455   |   | € 0.18588930312028200000                       |   |  |  |
| 040000-40151 04000 1010 1111 0000 10401884101 0 1080401 81901000 1 108 / 980   | 1002477 / 0000131 0XDC4133280F182390C90908081800E400  | C 0,00012077233425946                       | C 0, 1030893031202020000                       |   |  |  |
| Test date Transaction hash   | gasUsed (unit) gasPrice (wei) ETH price   | ETH/FUR 12 feb 2023 (adj. close, source: h  | tps://finance.yahoo.com/quote/ETH-EUR/history/ | 1 |  |  |
| 2023-02-12 0xc41460ea58833a22e4fb1b0a49a9ae9745ceeed4dd9a4686f142695af9a23ece  | gas-nee (wiii) gas-nee (wei) ETH price 67153 74887774 €0,007259524 Transactions for storing publi   | €1.443.55                                   |  | 4 |  |  |
| 2023-02-12 Uxxx41460eab8833822e4fb1b0849898e9745ceeed4dd984686f1426958f9823ece<br>0xx69c738e8628f3600h6ff486fb21f7622h61d5cce47h90c0743284h81e03db24 |   |   |  |   |  |  |
| 0xx659C738e8628t360u0bnina8b0t21t7622b61dbt0b4769u0ct743284b61e03db24 0xafc2a90a6f53711618158fdbc1afffea843060efbaa9127a5d1ea2718f3fec4a             | 67153 74761493 €0,00724/265 each of the users (manufactu supplier1, supplier2)  | er,   |  |   |  |  |
| Oxarczasousors711616156iddc1amea643060eidaa912785d1ea2716i3iec4a<br>Average  | 67153 74811465,33 €0,007252127 key_on_block   |   |  |   |  |  |
| rverage  | 07.135 74011400,33 €0,007202127 key_01_0100X  |   |  |   |  |  |
| Test date Transaction hash   | gasUsed (unit) gasPrice (wei) ETH price   |   |  |   |  |  |
| 2023-02-12 0x5d79853ec087fa55531a0f95ff39569f05e8808fae1db935daaf8137f4f815af  | gasused (unit) gasi-rice (wei) E1H price<br>67153 75780703 €0.007346084   |   |  |   |  |  |
| 0xdebbeb4bb52baaa4f307d3bf5133c7c521b9d449ac1178afa043c5126316188d   | 67153 75530445 60 007331824 Transactions for storing public   |   |  |   |  |  |
| 0xcedbeb4bb52ba8a4r30/d3bb133c/c521bbd4498c11/68ab445b126316166d 0xe3b434bae34c9618f70d184a4b4ccfb32f3da993ee285c585ecce723001d50d2                  | 67153 75530445 €0,007321824 Transactions for storing publi<br>67153 75573596 €0,007328007 each of the users (manufacture)<br>67153 75628248 €0,007331305 supplier1, supplier2) main   |   |  |   |  |  |
| 0xe3b434bae34c9618f70d184a4b4ccfb32f3da993ee28bcb8becce723001db0d2<br>Average  | 67153 75628248 60 007331305 eurollar1 curollar2 main  | er,   |  |   |  |  |
| riverage   | 07.100 7.0020240 €0,007331300 supplier1, supplier2) main  |   |  |   |  |  |
| 2023-02-12 0x809ac9286307476bfe161728188054e8ef2a5842bc1c0187ed92ea9468754a01  | 67533 74756230 €0,007287780   |   |  |   |  |  |
| 0x23e9fc0cca28c6087909e9e182680cf32033560ead6b7786f2ccd1fd0a2b9509   | 67533 74839102 €0,007295859   |   |  |   |  |  |
| 0x2098b315c0304c44cbe8de395f5dd5d81d3b2c507c171bab53e87e769459f19b   | 67533 74748947 €0,007286875   |   |  |   |  |  |
| 0x144bbf84b36c44b984385258e8183fc7c90e58c5b058f5131b89d1b157055a6b   | 07500 74400000 50 007050570   |   |  |   |  |  |
|  | 0/033 /4400009 €0,00/2090/0 Transportant for the storage  |   |  |   |  |  |

| 0x5742091db77c498e5c06fd321c9c9f1856f01c8017810cdb942b994078cb61d8<br>Average  | 67522   |  |  |                     |   |  |  |  |  |  |
|--|---|--|--|---------------------|---|--|--|--|--|--|
| Average  |   |  | the uper's officientes Action 1 of   |                     |   |  |  |  |  |  |
|  | 67533   | 74649624 6 €0 007277388  | Transactions for the storage of<br>the user's attributes. Action 1 of<br>the MARTSIA approach  |                     |   |  |  |  |  |  |
|  | 07000   | 74045024,0   | aic noutrostappioacii  |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0x960d9ba42ba6a58e05cd5a1b6e15ab2fd5b819ca3a67012523f6d49a2fcf8794  | 67755   | 74147205 €0,007252170  |  |                     |   |  |  |  |  |  |
| 0x282c55ed6d3303bf099fa2da45401642f9ebc37a6e16e8568c2e54af8cf692c1   | 67755   | 74064722 €0,007244102  |  |                     |   |  |  |  |  |  |
| 0x388c737ee9844250c385fd112d60dda88ca4732bfbddc2817c16ca2820dd6b1c   | 67755   | 73994494 €0,007237234  | Transactions for the storage of  |                     |   |  |  |  |  |  |
| 0xac67c79cd1941c49c7b1f761902b88eb48aab7184d72646bf38db00416bce185   | 67755   | 74086836 €0,007246265  | the authorities' names. 1st action of the authorities (each of them:   |                     |   |  |  |  |  |  |
| Average  | 67755   | 74073314 25 €0 007244943   | one transaction per authority)   |                     |   |  |  |  |  |  |
|  |   |  | , , ,  |                     |   |  |  |  |  |  |
| 2023-02-12 0x511a48c00f9954205a24faec21ea1fb817f3252dc8676b75811d1959dc3f8f89  | 113680  | 74389831 €0,012207577  |  |                     |   |  |  |  |  |  |
| 2023-02-12 Ux511a48cu0l99542U5a24faec21ea1fb81/f3252dc86/bb/5811d1959dc3f8f89  |   |  |  |                     |   |  |  |  |  |  |
| 0x73790dd05e263f4ae0391db6403666625871b487c12763e570be2eb9d683a665   | 113680  | 74280763 €0,012189679  |  |                     |   |  |  |  |  |  |
| 0x285a3c7f56482603a34c21bc94c9beeb1e8065860fcbce78508994ee9e033a37   | 113680  | 74157267 €0,012169412  | Transactions for the storage of  |                     |   |  |  |  |  |  |
| 0x7a0d132db81d4bb626dfe669845d97c8928485271128115d0eae4f683a2d5dfd   | 113680  | 74041213 €0,012150368  | Transactions for the storage of<br>the hashed elements. 2nd action<br>of the authorities (each of them:  |                     |   |  |  |  |  |  |
| Average  | 113680  | 74217268,5 €0,012179259  | one transaction per authority)   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0x9da4062a53325cfadd01fb51a42f91a15bb6713a7d3b6a27e6d5921260d8cd41  | 159693  | 74047431 €0.017069771  |  |                     |   |  |  |  |  |  |
| 0xe9d94b68da55e68e58ec749c8bfd029ccd491600eaf2039e9cf3efa6aecfabbe   | 159693  | 73969447 €0.017051794  |  |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 0x31dc7a1e1a09974c1be0304cbfeac437dea9ed7bf1727bbba7730d0435fe73b0   | 159693  | 73883721 €0,017032032  | Transactions for the storage of  |                     |   |  |  |  |  |  |
| 0xe941a779983884cd295fcc04b5c56c0f7e78a6ffdbecb39688b7fc001e12f96b   | 159693  | 73786341 €0,017009584  | the elements. 3rd action of the<br>authorities (each of them: one  |                     |   |  |  |  |  |  |
| Average  | 159693  | 73921735 €0,017040795  | transaction per authority)   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0xb5e0bd0b138ea4ada4617195f50e1e9fe154e44494694f46828ad0f1b5d19530  | 67731   | 73665815 €0.007202534  |  |                     |   |  |  |  |  |  |
| 0x308cf72d5fd0a6b656f8a3af6259acdf7d310d54d8d50052de844b86bf6a2218   | 67731   | 73649941 €0.007200982  |  |                     |   |  |  |  |  |  |
| 0x52adff53h436he3d890f2df13h4e8193hh7df19563d29e39641868df8452391f   | 67731   | 70574070 50 007400050  | Transactions for the storage of  |                     |   |  |  |  |  |  |
| 0xd2d287hc81a62ae8253f1151565cd052d48e6a53d1ee7c5h8594023293e9d729   | 67731   | 73071976 €0,007193309  | the public parameters. 4th action of the authorities (each of them:  |                     |   |  |  |  |  |  |
|  |   | /3546319 €0,007190651  | of the authorities (each of them:  |                     |   |  |  |  |  |  |
| Average  | 67731   | 73608513,25 €0,007196931   | one transaction per authority)   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0xb6a75ba0060c3a61f470c51ed946b4f9d7027a5d66f8d291a9fd92ba52799396  | 67688   | 73531407 €0,007184828  |  |                     |   |  |  |  |  |  |
| 0x1d8d1782f03f6cf12f5ae8133aa90ada92eceb7689726b033387ff0ad5245a0e   | 67688   | 73517228 €0,007183443  |  |                     |   |  |  |  |  |  |
| 0xa643f0abdf783efff5d53d2eee59c2191bde0d881237715553ef324a08c39707   | 67688   | 70550507 50 007407004  | Transactions for the storage of  |                     |   |  |  |  |  |  |
| 0xddac179f23cb747d3b7a5500e7c0e0bf8c69955fe8966d09a91708a5879b9736   | 67688   | 73565968 €0.007188205  | the public keys. 5th action of the   |                     |   |  |  |  |  |  |
| Average  | 67688   | 73542785 €0.007185940  | the public keys. 5th action of the<br>authorities (each of them: one<br>transaction per authority)   |                     |   |  |  |  |  |  |
|  | 0,000   | 12100  | - a  |                     |   |  |  |  |  |  |
| 2023-02-12 0xb53ffc4bee7381d1a426ad18c895aef2f221ba5b88c4b0426c3f61d3725a9c9c  | 89772   | 73544433 €0,009530650  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0X003H04066736101842080160693861212210800660400428031810372589090   |   |  |  |                     |   |  |  |  |  |  |
| 0xf4ef56084e26b3d05df83a6bb3c73c1301cfa58e718e4ac7ebbb06ecc6e19b62   | 89772   | 73516346 €0,009527011  |  |                     |   |  |  |  |  |  |
| 0x956bf886f7d0bf51142cccf74858b1ab4e05f8c5f05fa3c06beb3ce5713c26d6   | 89772   | 73472790 €0,009521366  |  |                     |   |  |  |  |  |  |
| 0xc648b4f7a5c197f71efc0ea62cee44b399a1d92054cd3c8d1e6722520bef32c4   | 89772   | 73449894 €0,009518399  | Transactions for the storage of<br>the IPFS link. Action 2.4 of the<br>MARTSIA approach  |                     |   |  |  |  |  |  |
| 0x958f295e7ba5d455f65c5f494a139e490a3b99d6bb54f29e9a17b2f822eb2618   | 89772   | 73444947 €0,009517758  | the IPES link Action 2.4 of the  |                     |   |  |  |  |  |  |
| Average  | 89772   | 73485682 €0,009523037  | MARTSIA approach   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0x4b1f1d4235bce6d616e6c86d8840ce613a1d2c8feefc9cf992b1937b00674871  | 21832   | 73390047 €0,002312930  |  |                     |   |  |  |  |  |  |
| 0x29c9e2e3b9055ae3a08bd0a6896900f2c18d11a7fe340dc0917565f0e1069239   | 22056   | 73381258 60 002336381  | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 1st auth  |                     |   |  |  |  |  |  |
| Average  | 21944   | 72395652 5 60,002334656  | Pair of transactions: key request,   |                     |   |  |  |  |  |  |
| Avelage  | 21044   | 73363002,0 €0,002324030  | key on block. 1st auti   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0x0fdfd8f88a07f7283d924d75cd87505569bc835d76cae4259b10e2355bebfc94  |   | 73356848 €0,002311884  | Transportions for executes the least   |                     |   |  |  |  |  |  |
| 0x4dd0e0f16ebfb9698cda6b19d8c71799f251782fa8f75dff279f47c727c591d8   | 22056   | 73341107 €0,002335103  | Transactions for passing the key.<br>Pair of transactions: key request,  |                     |   |  |  |  |  |  |
| Average  | 21944   | 73348977,5 €0,002323495  | key on block. 2nd auth   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0xdd7aa43a3f74ec34c1521fc7b06beff31071ed704e6daa985db3f5535d6fa8b3  | 21832   | 73355656 €0.002311846  | Transactions for passing the key. Pair of transactions: key request,   |                     |   |  |  |  |  |  |
| 0x10d62319a17da0ce1c04c2786190aaca4618598f635d0ab42c586a54e8fbcc22   | 22056   | 73337712 60 002334005  | Transactions for passing the key.  |                     |   |  |  |  |  |  |
| Average  | 21944   | 72246684 60.002222422  | Pair of transactions: key request,   |                     |   |  |  |  |  |  |
| Average  | 21044   | 73346684 €0,002323422  | key on block. Sid addi   |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
|  |   |  |  |                     |   |  |  |  |  |  |
| 2023-02-12 0xd8af00280c0d51c803528425d681cec6c370e7650a920f3c8598def30d2910c2  | 21832   | 73327549 €0,002310961  | Transactions for passing the key   |                     |   |  |  |  |  |  |
| 0x060b6a6e5298efbc97d070c41304d8015508d119a33cba8c702297d9f5738f88   | 22056   | 73319410 €0,002334412  | Transactions for passing the key.  Pair of transactions: key request.  |                     |   |  |  |  |  |  |
|  | 22056   | 73327549 €0,002310961<br>73319410 €0,002334412<br>73323479,5 €0,002322687  | Transactions for passing the key.  Pair of transactions: key request.  |                     |   |  |  |  |  |  |
| 0x060b6a6e5298efbc97d070c41304d8015508d119a33cba8c702297d9f5738f88   | 22056   | 73319410 €0,002334412  | Transactions for passing the key.  Pair of transactions: key request.  |                     |   |  |  |  |  |  |
| 0x060b6a6e5298efbc97d070c41304d8015508d119a33cba8c702297d9f5738f88   | 22056   | 73319410 €0,002334412  | Transactions for passing the key.  Pair of transactions: key request.  |                     |   |  |  |  |  |  |
| 0x060b6a6e5298efbc97d070c41304d8015508d119a33cba8c702297d9f5738f88   | 22056   | 73319410 €0,002334412  | Transactions for passing the key.  Pair of transactions: key request.  |                     |   |  |  |  |  |  |
| 0x060b6e6e5298eth:e97d070c41304d9015508d119a33cba9c702297d9f5738f88<br>Average   | 22056<br>21944  | 73319410 €0,002334412<br>73323479,5 €0,002322687   | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 4th auth  |                     | Final cost ETH  | Final cost €   |  |  |  |  |
| Ox000bdase5298ebcs74070c41304d8015508d119a33cba8c702297d9f573888 Average  2023 02:13 transaction hash  | 22056<br>21944<br>gasUsed (unit)  | 73319410 €0,002334412 73323479,5 €0,002322687 asPrice (wei) contract address   | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 4th auth  |                     |   |  |  |  |  |  |
| 0x060b6e6e5298eth:e97d070c41304d9015508d119a33cba9c702297d9f5738f88<br>Average   | 22056<br>21944<br>gasUsed (unit)  | 73319410 €0,002334412 73323479,5 €0,002322687 asPrice (wei) contract address   | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 4th auth  |                     |   | Final cost € € 6.18940258145138000000                          |  |  |  |  |
| 0x000cbase5298erbcs74070x41304d8015508d119x33cbasb702297d9f573888<br>Average<br>2023-02-13<br>1zansaction hash<br>0x127d3f220773f38cf27420e576dasf234cc9900f0x449695fs86c58694242942   | 22056<br>21944<br>gasUsed (unit) g<br>1692477   | 73319410 €0,002334412 73323479,5 €0,002322687  asPrice (wei) contract address 2565457520 0xf7dB53111f8E  | Transactions for passing the key,<br>Pair of transactions: key request,<br>key on block. 4th auth  |                     | € 0,004341977847077040  | € 6,18940258145138000000                                       |  |  |  |  |
| 0x0600biase6298efbx974070x41304d8015508d119x33cba8c702297d9673888<br>Average  2023-02-13 transaction hash 0x122343220734336t27420e57ddarf234cc90010x94b965fe86c56994242942 2023-02-13 transaction hash   | 22058<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g   | 73319410 €0,002334412 73323479,5 €0,002322687  asPrice (wei) contract address 2565457520 0xf7dB531116E asPrice (wei) contract address contract address   | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 4th auth<br>BEBE 1979SF8c1EfabfAd23bb48C80<br>for 'main' (public keys)  |                     | € 0,004341977847077040<br>Final cost ETH  | € 6,18940258145138000000<br>Final cost €                       |  |  |  |  |
| 0x000cbase5298erbcs74070x41304d8015508d119x33cbasb702297d9f573888<br>Average<br>2023-02-13<br>1zansaction hash<br>0x127d3f220773f38cf27420e576dasf234cc9900f0x449695fs86c58694242942   | 22058<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g   | 73319410 €0,002334412 73323479,5 €0,002322687  asPrice (wei) contract address 2565457520 0xf7dB531116E asPrice (wei) contract address contract address   | Transactions for passing the key,<br>Pair of transactions: key request,<br>key on block. 4th auth  |                     | € 0,004341977847077040<br>Final cost ETH  | € 6,18940258145138000000                                       |  |  |  |  |
| Dx0000balee5298erbcs74070c41304d801550ed119a33cbale702297d9673888<br>Average  2023-02-13 transaction hash<br>0x1223d22273td33ed27420e57ddaaf234cce96000a9449695la86c59694242942<br>2023-02-13 transaction hash<br>0x681657e90be8271daa14a475ac9bc27523021cd8250ec56a19a023c62722574  | 22056<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>1692477  | 73319410 €0,002334412 73323479,5 €0,002322687 asPrice (wei) contract address 2565457520 0xf7dB53111f8E asPrice (wei) contract address 1395546407 0xD36628479ce   | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 4th auth<br>DE819785F8c1E(ab/Ad23bb48C80<br>5 for 'main' (public keys)<br>88445F51742078507878CCFa276B  | 2                   | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130                                | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0x000cbase5298ebcs74070x41304d8015508d119s33xbas6z702297d9f5738f88<br>Average  2023-02-13 transaction hash 0x120x30220738138x827420e57ddsat234ccs99070s445965fs96x58994242942  2023-02-13 transaction hash 0x861576595668271dsa14s475ac98227523021cs8559ec56is19s023x82722574  | 22056<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g  | 73319410 €0,002334412 73323479,5 €0,0023322687  asPrice (wei) contract address 2565457520 0x77dB5311118E asPrice (wei) contract address 1395546407 0xD36628479ce asPrice (wei) ETH price   | Transacions for passing the key. Pair of transacions. key request, key on block. 4th auth  DES 19795Fec1ErlabfAd23bb48C80  for 'main' (public keys)  884/5F51742078507878CCFa276B  | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000<br>Final cost €                       |  |  |  |  |
| Dxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx   | 22058<br>21944<br>gasUsed (unit)<br>1692477<br>gasUsed (unit)<br>1692477<br>gasUsed (unit)<br>67153   | 73319410 €0,002334412 73323479.5 €0,002322687 asPrice (wei) contract address aSPice (wei) contract address asPrice (wei) contract address asPrice (wei) contract address asPrice (wei) ETH price asPrice \$60,267863401  | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 4th auth<br>EDE819785F8c1EfabfAd239b48C80<br>s for 'main' (public keys)<br>8884f5F51742078507B78CCFa278B<br>Transactions for storing public   | 2                   | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0x000cbase0s298ebcs74070x41304d8015508d119s33xcba8c702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738138ct27420e57dsaa1234ccs99070s445965fs86c56994242942 2023-02-13 transaction hash 0x61273d3220738136ct27420e57dsaa1234ccs99070s445965fs86c56994242942 2023-02-13 transaction hash 0x61676e9fbce80271daa144475ac96227593021cs86559e56ia19a023x62722574 eet date 77accation from the control of the con | 22056<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>67153   | 73319410 €0,002334412 73323479.5 €0,002322687 asPrice (we) contract address 2565457520 0xt7d85311178E asPrice (we) contract address 389Frice (we) contract address 2796252058 €0,267863401   | Transactions for passing the key.<br>Pair of transactions: key request,<br>key on blood. 4th auth<br>DDE819795F8:1EfabfAd23bb46C80<br>for 'main' (public keys)<br>8846F5174207607B78CCF2278B   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| Dice@coloratec298ebcs74070c41304d8015508d119s33cba8c702297d9f5738f88 Average  2023-02-13 transaction hash  | 22056<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>67153<br>67153<br>67153   | 73319410 €0,002334412 73323479,5 €0,002322687  asPrice (we) contract address 2566457520 0x7/d65311116E asPrice (we) contract address asPrice (we) contract address 2566467620 0x7/d6531116E asPrice (we) ETH price 276625058 €0,287683401 2766341772 €0,264808781  | Transactions for passing the key,<br>perior of bransactions, serior quest,<br>key on block. 4th auth<br>DE819796F6:1EhabfAd23bb48C80<br>for 'main' (public keys)<br>8bd4F9517420786078780CFa278b<br>Transactions for storing public<br>key readers (actors). One for<br>each of the uses manufacture.  | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0x000cbase0s298ebcs74070x41304d8015508d119s33xcba8c702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738138ct27420e57dsaa1234ccs99070s445965fs86c56994242942 2023-02-13 transaction hash 0x61273d3220738136ct27420e57dsaa1234ccs99070s445965fs86c56994242942 2023-02-13 transaction hash 0x61676e9fbce80271daa144475ac96227593021cs86559e56ia19a023x62722574 eet date 77accation from the control of the con | 22056<br>21944<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>1692477<br>gasUsed (unit) g<br>67153<br>67153<br>67153   | 73319410 €0,002334412 73323479.5 €0,002322687 asPrice (we) contract address 2565457520 0xt7d85311178E asPrice (we) contract address 389Frice (we) contract address 2796252058 €0,267863401   | Transactions for passing the key,<br>perior of bransactions, serior quest,<br>key on block. 4th auth<br>DE819796F6:1EhabfAd23bb48C80<br>for 'main' (public keys)<br>8bd4F9517420786078780CFa278b<br>Transactions for storing public<br>key readers (actors). One for<br>each of the uses manufacture.  | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| Dice@colorieses298ebcs74070c41304d8015508d119s33cba8c702297d9f5738f88 Average  2023-02-13 transaction hash   | 22056<br>21944<br>21944<br>3692477<br>gasUsed (unit)<br>1692477<br>gasUsed (unit)<br>67153<br>67153<br>67153<br>67153   | 73319410 €0,002334412 73323479,5 €0,002322687 assPrice (wei) contract address 2566457520 0x708531118E assPrice (wei) contract address assPrice (wei) contract address 256645720 0x7085231118E assPrice (wei) contract address 256645720 0x7085234750 27662477172 €0,264608781 2766347172 €0,264608781 3425373259 €0,327894740  | Transactions for passing the key,<br>perior of bransactions, serior quest,<br>key on block. 4th auth<br>DE819796F6:1EhabfAd23bb48C80<br>for 'main' (public keys)<br>8bd4F9517420786078780CFa278b<br>Transactions for storing public<br>key readers (actors). One for<br>each of the uses manufacture.  | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0x000cbase0s298ebcs74070x41304d8015508d119s33xcba8c702297d9f5738f88 Average  2023-02-13 transaction hash 0x1270x30220738138x827420e57dsaa1234ccs99070s4459856s96x56994242942 2023-02-13 transaction hash 0x1270x30220738138x827420e57dsaa1234ccs99070s4459856s96x6994242942 2023-02-13 transaction hash 0x61270x40220738138x827420e57dsaa1234ccs99070s4459856s96x65994242942 2023-02-13 transaction hash 0x61270x40220738138x827420e57dsaa1234ccs99070s4596956x96x96x22222274 2023-02-13 transaction hash 0x61270x4020x4020x4020x4020x4020x4020x4020x4   | 22056<br>21944<br>21944<br>21944<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>21947<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>21947<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>219477<br>2 | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (we) contract address 2565467520 0xf7x85511118E 2565467520 0xf7x85511118E 2565467520 0xf7x85521118E 2565467520 0xf7x85251118E 2565467520 0xf7x85251118E 2565467276 0xf3x65264762e 2578541772 €0,2264802781 4711523947 €0,327894740 2585762 €0,327894740 2585762 €0,327894740 2585762 €0,327894740 2585762 €0,327894740  | Transactions for passing the key,<br>per of bransactions, selective, selective,<br>key on block. 4th such<br>bey on block. 4th such<br>bey on block. 4th such<br>block per   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| Dice@Disase5298ebs574070c41304d8015508d119s33cba8c702297d9f5738f88 Average  1023-02-13 transaction hash 0x120sd122073f836x527420e57ddsaf234cce990f8s44995f886c58994242942 1023-02-13 transaction hash 0x120sd122073f836x527420e57ddsaf234cce990f8s44995f886c58994242942 1023-02-13 transaction hash  | 22056<br>21944<br>21944<br>3692477<br>3692477<br>3692477<br>3692477<br>3692477<br>367153<br>67153<br>67153<br>67153<br>67153<br>67153   | 73319410 €0,002334412 73323479,5 €0,002322687  assPrice (we) contract address 2566457520 0x7/08531118E assPrice (we) contract address assPrice (we) ETH price 279625058 €0,287863401 2766347172 €0,264808781 3425373259 €0,327894740 assPrice (we) ETH price 279625058 €0,287863401 3425373259 €0,327894740 assPrice (we) ETH price 279625795 €0,181398713   | Transactions for passing the key,<br>perior of bransactions, ser yequest,<br>key on blook. 4th auth<br>DEB 19795F8c 1ErleshAd23bb48C80<br>s for 'main' (jublic keys)<br>88-84F5F1742078607878CCF278B<br>88-84F5F1742078607878CCF278B<br>Transactions for storing public<br>key readers (actions). One for<br>action of the users action of the<br>search of the users action of<br>search of the users action of<br>key, on block.   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| D-0000balede2398bbcs74070c41304d8015508d119s33cbale702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738138c827420e57dsaaf234ccs99070s445965fs86c56994242942 2023-02-13 transaction hash 0x1273d3220738138c827420e57dsaaf234ccs99070s445965fs86c56994242942 2023-02-13 transaction hash 0x861657e5f0e6d8271daa144475ac98227593021cs86556e56fs19s023c82722574 eet date Transaction hash 0x662564467010s25559449bba14695453064e53ac703e5866993300e77acx548 0x662564467010s25559449bba14695453064e53ac703e586699300e77acx548 0x662564467010s25559449bba14695453064e53ac703e586699300e77acx548 0x662564560059950bc4ee98fb1291703903a210671d54c676a55ba3668bc5 0x6c1056560cb8d009950bc4ee98fb1291703903a210671d54c676a655ba369bc5 Average eet date Transaction hash 0x202-02-13 0x6c68227c18381d6326225d4454ea15469454867a68556596903  | 22056<br>21944<br>21944<br>21944<br>21944<br>219477<br>238Used (unit) (21952477<br>238Used (unit) (21952477<br>238Used (unit) (21952475)<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153   | 73319410 €0,002334412 73323479,5 €0,002322887  asPirce (wel) contract address 2565467520 0x77dB5311118E asPirce (wel) contract address 389556407 0x030628479ce asPirce (wel) ETH price 279822058 €0,287893401 471452578275 €0,327809740 asPirce (wel) ETH price 179822059 €0,327809740 asPirce (wel) ETH price 1890051917 €0,4519029740 asPirce (wel) ETH price 1890051917 €0,1519897130   | Transactions for passing the key,<br>few of bransactions, self-request,<br>key on block. 4th author<br>bey on block. 4th author<br>DEB 19795F96-1EThedAu23bb48C80<br>for 'main' (public keys)<br>888-85F517420795078778CCF22788<br>Transactions for storing public<br>key readers described. One for<br>each of the users (manufacturer,<br>supplier) supplier?<br>left_on_block.  | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
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| 0x000x0base62298erbcs74070x41304d80150804119x33x5aba7022979995738888  Average  2023-02-13 transaction hash 0x120x1302207343386267420e5770daa72342c99000a9459565886c58994242942  2023-02-13 transaction hash 0x8618576960e68271daa144a475ac982278503021cd8250ec56s198022x62722574  2023-02-13 transaction hash 0x861856464871032025943586747420e5770daa472342c95000a9459565886c589942442942  2023-02-13 transaction hash 0x861854648710320259644586146864530046853ac70248866586095777aca344 0x8618564867103202596445861468965300277620548666666666666666666666666666666666666   | 2056 21944  gasUsed (unit) g 1692477  gasUsed (unit) g 1692477  gasUsed (unit) g 67153 67153 67153 67153 67153 67153 67153 67153  | 73319410 €0,002334412 73323479,5 €0,002322887 asPrice (we) contract address 2565457520 0ar/78531118E asPrice (we) contract address asPrice (we) contract address asPrice (we) ETH price asPrice (we) ETH price 279634712 €0,026407514 471152573259 €0,0264007514 471152573259 €0,0264007514 1860051917 €0,015198713 €1,01500518440 €0,018005191 €0,018005191 €0,000518440 €0,018005191 €0,0005184400140 €0,018005191 €0,0005184400140 €0,018005191 €0,0005184400140 €0,018005191 €0,000518400140 €0,018005191 €0,000518400140 €0,018005191 €0,000518400140 €0,018005191 €0,000518400140 €0,0005184000140 €0,0005184000140 €0,0005184000140 €0, | Transactions for passing the key<br>per of brandschies key request,<br>key on block. 4th author<br>per of brandschies<br>for man (public keys)<br>(be 1976/966-161-beb/Ad23beb496-00<br>for 'man' (public keys)<br>Bed49F517420760718760CF42788<br>Bed49F517420760718760CF42788<br>Bed49F517420760718760CF42788<br>Transactions for storing public<br>cannot off the users (manufacturer,<br>supplier) supplier()<br>key, on 1000<br>key caderia (actions). One for<br>each of the users (manufacturer,<br>supplier) supplier()<br>key, on 1000<br>key caderia (actions). One for<br>each of the users (manufacturer,<br>supplier), supplier()<br>manufacturer,<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplier()<br>supplie     | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| D-0000balede2398bbcs74070c41304d8015508d119s33cbale702297d9f5738f88 Average  2023-02-13 framsaction hash 0x1273d31220738138c827420e57dssadf234ccs90010s64s9656s86c5be994242942 2023-02-13 framsaction hash 0x1273d31220738138c827420e57dssadf234ccs90010s64s9655s86c5be994242942 2023-02-13 framsaction hash 0x1273d31220738138c827420e57dssadf234ccs90010s64s9656s86c5be994242942 2023-02-13 framsaction hash 0x66256s4c87dssadf36520586927dssadf3658c8653ac703e586b6938300e77acs548 0x66256s4c87dssadf56250580526234468653ac703e586b6938300e77acs548 0x66256s4c87dssadf562505805262354s4686583ac703e586b6938300e77acs548 0x66256s4c87dssadf562505805262354s468583ac703e586b6938300e77acs548 0x66256s4c87dssadf56250580522354s46853ac703e586b6938300e77acs548 0x66256s4c87dssadf5625058652454846ac96384674805865968054659686596805 0x6c856556cb6860599b0c4ee998b2817035903a210671ds4c87648556596803 0x6c85556cb6860599b0c4ee998b2817035903a210671ds4c87648556596803 0x6c85556cb6860599b0c4ee998b2817035903a210671ds4c8659656658596903 0x6c85556cb6860599b0c4ee998b2817035903a210671ds4c965656656389 0x6c855656cb6860599b0c4ee998b2817035903a210671ds4c966565965665899 0x6c855656cb6860599b0c4ee998b2813695946464646667460b66e9906de665966669806006669806006669806006669806660666  | 20096 21944 21944  gastbed (unit) g 1992477 gastbed (unit) g 1992477 gastbed (unit) g 67153 67153 67153 67153 67153 67153 67153 67533 67533 67533   | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (wel) contract address 2565467520 0xf7x85511118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2788252058 €0,287683401 278256341772 €0,28698781 471152947 €0,451012039 2452512589 €0,28698781 471152947 €0,451012039 2452512589 €0,28698781 2452613893699 €0,28698781 2452613893699 €0,29692161 2452613893699 €0,29692161 2452613893699 €0,451715709 4820613882 €0,446094200   | Transactions for passing the key,<br>per of transactions, servequest,<br>key on block. 4th such<br>bey on block. 4th such<br>bey on block. 4th such<br>bey on block. 4th such<br>between the beautiful<br>between the beautiful<br>for the bea   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0x000x04xx6x2584ebx674070x41304d8015508d119x33x4x8c702297d9f573888  Average  2x23 021.11 transaction hash 0x125x32207343385627420e577dsax87234c7e900f0x94499656x86x55994242942  2x25 021.51 transaction hash 0x125x32207343385627420e577dsax87234c7e900f0x94499656x86x55994242942  2x25 021.51 transaction hash 0x125x32207343385627420e577dsax87234c7e900f0x94499656x86x55994242942  2x25 02.11 transaction hash 0x86x564x6270420x5594449841464875xc9602775x32344860868685095809777xx3344 0x86x564x62704x627569445864172773x25254x486086868506668686449509x656x65969449686486666  0x8c1058564x66486966762096727dx25254x48669868666686449509x65666969696969696969696969696969696969  | 20096 21944  gastUsed (unit) g 1892477  gastUsed (unit) g 189247153  67153  67153  67533  67533  67533   | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (we) contract address 2566457520 0ar/7865311186 asPrice (we) contract address 367664607 0b.036628470c asPrice (we) ETH price 4072766347712 € 0226409781 4711622947 €0,451012293 425273295 €0,22763470 425693678 €0,451012293 42573259 €0,451012293 42573259 €0,451012293 42573259 €0,451012293 4452323329 €0,45101279 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 44523490 €0,461903429 646903429 6 | Transactions for passing the key,<br>page of brandaction, selections for page of<br>page of brandaction, selection of<br>key on block. 4th auch<br>DEB 1979F8c1ElabA423bb48C80<br>so 'main' (public key)<br>BB44F9517420769078780CF12788<br>BB44F9517420769078780CF12788<br>BB44F9517420769078780CF12788<br>BB44F9517420769078780CF12788<br>BB44F9517420769078780CF12788<br>BB44F9517480F9517890<br>BB44F9517480F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>BB44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517890<br>B44F9517             | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000bales02298ebcs74070c41304d8015508d119s33cbale.702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738136x827420e57dsaaf234ccs9607us445965fs86c58e942442942 2023-02-13 transaction hash 0x1273d3220738136x827420e57dsaaf234ccs9607us445965fs86c58e942442942 2023-02-13 transaction hash 0x662564e668627dsaaf44475ac982275c3021cs85250ec56a19a023c82722574 eet date 1773d24647070d25559449ba14695450dc6e53ac703e686695800677acs349 0x6625644627010d25559449ba14695450dc6e53ac703e6866958000677acs349 0x6625644627010d25559469ba14695430dc953ac703e6866958000677acs349 0x662564627046270526469578000000000000000000000000000000000000  | 20056 21944  gastbeel (unit) 0 1692477 gastbeel (unit) 0 17153 67153 67153 67533 67533 67533  | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 25728634772 €0,284807874 4711529947 0xf3x852478ve 4x852532399 €0,287894740 2x8525454947 €0,451012039 2x8525454947 €0,451012039 2x8525454947 €0,451012039 2x85254549494949 2x8525454949494949 2x852545494949499494 2x85254549494949949494949494949494949494949  | Transactions for passing the key project of branchors were request, key on block. 4th such bey on block. 4th such bey on block. 4th such block of the block of th   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0x000x04xx6x2584ebx674070x41304d8015508d119x33x4x8c702297d9f573888  Average  2x23 021.11 transaction hash 0x125x32207343385627420e577dsax87234c7e900f0x94499656x86x55994242942  2x25 021.51 transaction hash 0x125x32207343385627420e577dsax87234c7e900f0x94499656x86x55994242942  2x25 021.51 transaction hash 0x125x32207343385627420e577dsax87234c7e900f0x94499656x86x55994242942  2x25 02.11 transaction hash 0x86x564x6270420x5594449841464875xc9602775x32344860868685095809777xx3344 0x86x564x62704x627569445864172773x25254x486086868506668686449509x656x65969449686486666  0x8c1058564x66486966762096727dx25254x48669868666686449509x65666969696969696969696969696969696969  | 20056 21944  gastbeel (unit) 0 1692477 gastbeel (unit) 0 17153 67153 67153 67533 67533 67533  | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (we) contract address 2566457520 0ar/7865311186 asPrice (we) contract address 367664607 0b.036628470c asPrice (we) ETH price 4072766347712 € 0226409781 4711622947 €0,451012293 425273295 €0,22763470 425693678 €0,451012293 42573259 €0,451012293 42573259 €0,451012293 42573259 €0,451012293 4452323329 €0,45101279 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 445234390 €0,45171579 646903429 44523490 €0,461903429 646903429 6 | Transactions for passing the key project of branchors were request, key on block. 4th such bey on block. 4th such bey on block. 4th such block of the block of th   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000bales02298ebcs74070c41304d8015508d119s33cbale.702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738136x827420e57dsaaf234ccs9607us445965fs86c58e942442942 2023-02-13 transaction hash 0x1273d3220738136x827420e57dsaaf234ccs9607us445965fs86c58e942442942 2023-02-13 transaction hash 0x662564e668627dsaaf44475ac982275c3021cs85250ec56a19a023c82722574 eet date 1773d24647070d25559449ba14695450dc6e53ac703e686695800677acs349 0x6625644627010d25559449ba14695450dc6e53ac703e6866958000677acs349 0x6625644627010d25559469ba14695430dc953ac703e6866958000677acs349 0x662564627046270526469578000000000000000000000000000000000000  | 20056 21944  gastbeel (unit) 0 1692477 gastbeel (unit) 0 17153 67153 67153 67533 67533 67533  | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 25728634772 €0,284807874 4711529947 0xf3x852478ve 4x852532399 €0,287894740 2x8525454947 €0,451012039 2x8525454947 €0,451012039 2x8525454947 €0,451012039 2x85254549494949 2x8525454949494949 2x852545494949499494 2x85254549494949949494949494949494949494949  | Transactions for passing the key project of branchors were request, key on block. 4th such bey on block. 4th such bey on block. 4th such block of the block of th   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000bales02298ebcs74070c41304d8015508d119s33cbale.702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738136x827420e57dsaaf234ccs9607us445965fs86c58e942442942 2023-02-13 transaction hash 0x1273d3220738136x827420e57dsaaf234ccs9607us445965fs86c58e942442942 2023-02-13 transaction hash 0x662564e668627dsaaf44475ac982275c3021cs85250ec56a19a023c82722574 eet date 1773d24647070d25559449ba14695450dc6e53ac703e686695800677acs349 0x6625644627010d25559449ba14695450dc6e53ac703e6866958000677acs349 0x6625644627010d25559469ba14695430dc953ac703e6866958000677acs349 0x662564627046270526469578000000000000000000000000000000000000  | 20056<br>21944<br>21944<br>29stUsed (unit) g<br>1692477<br>2pstUsed (unit) g<br>2pstUsed (unit) g<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153<br>67153   | 73319410 €0,002334412 73323479,5 €0,002322887  asPrice (we) contract address 2565457520 0µ77855311186 asPrice (we) contract address 27656457520 0µ77855311186 asPrice (we) ETH price 4000000000000000000000000000000000000   | Transactions for passing the key<br>pare of brandactions, bey request,<br>key on block. 4th such<br>parents of block. 4th such<br>DEB 19795F8c1ElabAA23bb48c30<br>stor 'main' (public keys)<br>BelddF951742076071870CF12788<br>BelddF951742076071870CF12788<br>BelddF951742076071870CF12788<br>BelddF951742076071870CF12788<br>Reg readers (action). One for<br>each of the users (manufacture,<br>supplier). Transactions for storing public<br>key, can be seen to see<br>each of the users (manufacture,<br>supplier). Transactions for storing public<br>key, can be seen to see<br>each of the users (manufacture,<br>supplier), supplier2) main<br>Transactions for the storage of<br>Transactions for the storage of<br>the MATTSIA approach  | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| D-0000bales04204erbcs74070c41304d8015508d119s33cbale702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738136x227420e57dsaaf234ccs9907us44s9656a96c58e94242942 2023-02-13 transaction hash 0x1273d3220738136x227420e57dsaaf234ccs9907us44s9656a96c58e94242942 2023-02-13 transaction hash 0x66567e6fbe68271daa144475ac96227563021cs8556ec58a19a023c82722574 eet date 1273d246470102d52556446ba146054730d66e53ac703e68b66933030e77acx534 0x665025644670102d5256446ba146054730d6663ac703e68b6693300e77acx534 0x665025646209698b652036986723543aa6680868686a65446300ac65eb65 0x6c105656ccbe6001998bc4ee69f8b28170309231210971d544676a559a330e767acx534 0x665025646509986b646e69f8b28170309231210971d94429786598598300e77acx534 0x665025646858686868686868686868686868686868686  | 20096 21944  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 19924  gastleed (unit) () 1992  | 73319410 €0,002334412 73323479,5 €0,002322687  asiPrice (wel) contract address 2565467520 0xf7x85311186  asiPrice (wel) contract address 3395546407 0xD36528470xe  asiPrice (wel) contract address 3395546407 0xD36528470xe  asiPrice (wel) contract address 4395546407 0xD36528470xe  asiPrice (wel) contract address 4711526347 0xD36528470xe  asiPrice (wel) ETH price 1680051917 €0,451012034  asiPrice (wel) ETH price 1680051917 €0,161389713  471152794944  asiPrice (wel) ETH price 1680051917 €0,161389713  471152794944  47115279494 €0,18803025  482201882 €0,46104292  482201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201883 | Transactions for passing the key,<br>learn of bransactions, series questions,<br>key on block. 4th author<br>between the passing the passing the<br>DEBE 19796F8-IETBeMAZ326048C80<br>for main (public keys)<br>88646F917420766707878C0F2788<br>88646F917420766707878C0F2788<br>98646F917420766707878C0F2788<br>98646F917420766707878C0F278<br>98646F9174878<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>986466F91748<br>98646668<br>9864668<br>9864668<br>9864668<br>9864668<br>98646 | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| D-0000bdase62298ebcs74070c41304d8015508d119s33c4ab6702297d98733888  Average  2023 02-13 transaction hash 0x120d32207343365627420e577dsax87234c79607u9449955189c559942442942  2023 02-13 transaction hash 0x120d32207343365627420e577dsax87234c79607u94499565896c559942442942  2023 02-13 transaction hash 0x8618646270320526544568475ac9622753021cd8250ec56419s0223c62722574  2023 02-13 0x862784462710381c5694496845875ac9622753021cd8250ec56419s0223c62722574  2023 02-13 0x862784462710381c56944968458773ac9625696569685445096465969666666666666666666666666666   | 20096 21944  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 19924  gastleed (unit) () 1992  | 73319410 €0,002334412 73323479,5 €0,002322687  asiPrice (wel) contract address 2565467520 0xf7x85311186  asiPrice (wel) contract address 3395546407 0xD36528470xe  asiPrice (wel) contract address 3395546407 0xD36528470xe  asiPrice (wel) contract address 4395546407 0xD36528470xe  asiPrice (wel) contract address 4711526347 0xD36528470xe  asiPrice (wel) ETH price 1680051917 €0,451012034  asiPrice (wel) ETH price 1680051917 €0,161389713  471152794944  asiPrice (wel) ETH price 1680051917 €0,161389713  471152794944  47115279494 €0,18803025  482201882 €0,46104292  482201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201883 | Transactions for passing the key,<br>learn of bransactions, series questions,<br>key on block. 4th author<br>between the passing the passing the<br>DEBE 19796F8-IETBeMAZ326048C80<br>for main (public keys)<br>88646F917420766707878C0F2788<br>88646F917420766707878C0F2788<br>98646F917420766707878C0F2788<br>98646F917420766707878C0F278<br>98646F9174878<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>986466F91748<br>98646668<br>9864668<br>9864668<br>9864668<br>9864668<br>98646 | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000balede239ebcs74070c41304d8015508d119s33cbale.702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738138ct27420e57dsaaf234ccs90010s44s965fs8ec56994242942 2023-02-13 transaction hash 0x1273d3220738138ct27420e57dsaaf234ccs90010s44s965fs8ec56994242942 2023-02-13 transaction hash 0x6e1657e69bed8271daa14s475acs9627593021cs86556ec56ia19a023cd52725574 eet date Transaction hash 0x6e2654e467010s25559449ba1469545306ce53ac703e69b6993300e77acs548 0x6e2654e467010s25559449ba1469545306ce53ac703e69b6993300e77acs548 0x6e26546269b69559305905226234548466653ac703e69b6993300e77acs548 0x6e265462615655059559449ba1469545306ce53ac703e69b6993300e77acs548 0x6e2654626156550595649ba1469554306593300210971d54c4576a6559a3969b65 0x6e105656ceb6d0999b0c4ee99f8221703903a210971d54c4576a6559a3969b65 0x6e105656ceb6d0999b0c4ee99f8221703903a210971d54c4576a6559a3969b65 0x6e105656ceb6d0999b0c4ee99f8221703903a210971d54c4676a655986903 0x6e66459f8b6bc381455554666669565466999139191694a667a68b65969693 0x6e66459f8b6bc38145555466669566665656666624666646667946666656666666666666666666666   | 20096 21944  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 1992477  gastleed (unit) () 19924  gastleed (unit) () 1992  | 73319410 €0,002334412 73323479,5 €0,002322687  asiPrice (wel) contract address 2565467520 0xf7x85311186  asiPrice (wel) contract address 3395546407 0xD36528470xe  asiPrice (wel) contract address 3395546407 0xD36528470xe  asiPrice (wel) contract address 4395546407 0xD36528470xe  asiPrice (wel) contract address 4711526347 0xD36528470xe  asiPrice (wel) ETH price 1680051917 €0,451012034  asiPrice (wel) ETH price 1680051917 €0,161389713  471152794944  asiPrice (wel) ETH price 1680051917 €0,161389713  471152794944  47115279494 €0,18803025  482201882 €0,46104292  482201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201882 €0,48104111  48201883 | Transactions for passing the key,<br>learn of bransactions, series questions,<br>key on block. 4th author<br>between the passing the passing the<br>DEBE 19796F8-IETBeMAZ326048C80<br>for main (public keys)<br>88646F917420766707878C0F2788<br>88646F917420766707878C0F2788<br>98646F917420766707878C0F2788<br>98646F917420766707878C0F278<br>98646F9174878<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>98646F91748<br>986466F91748<br>98646668<br>9864668<br>9864668<br>9864668<br>9864668<br>98646 | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000balede5298ebcs74070c41304d8015508d119s33cbale702297d9f5738f88 Average  2023-02-13 transaction hash 0x1273d3220738136x227420e57dsaaf234ccs9607us4459656s86c58e94242942 2023-02-13 transaction hash 0x1273d3220738136x227420e57dsaaf234ccs9607us4459656s86c58e94242942 2023-02-13 transaction hash 0x1273d3220738136x227420e57dsaaf234ccs9607us4459656s86c58e94242942 2023-02-13 transaction hash 0x1273d4427012d52559449ba 148024306c653ac703e586b6593030e77acx348 2023-02-13 0x827344e870103d5256449ba 148024303d6e53ac703e586b693030e77acx348 0x6c6025644e870103d52564958b 148024303d6e53ac703e586b693030e77acx348 0x6c6025646270103d52564958b 148024303d6e53ac703e586b693030e77acx348 0x6c6025646270103d525646958b65038301947103548ae80086668686654840306656b69 0x6c105656ccb6600969b0-dee69f8b281703903a210671d5445768559a3968b65 0x6c8025645685601365504626646646659819136930306773665596903 0x6e60463696bc368686603696bc4ee69f8b281703903a210671d6e429f86cdf6006565666029 0x6e60463696bc3686660396666466666666666666666666666666666   | 20096 21944   | 73319410 €0,00234412 7 3323479,5 €0,0023322887  asPrice (wel) contract address 2565467520 0xf7x8551118E 1995546407 0xb366547520 0xf7x8551118E 1995546407 0xb366547520 0xf7x8551118E 1995546407 0xb366547520 0xf7x8530118E 1995546407 0xb366547520 0xf7x8530118E 1995546407 0xb366547520 0xf7x85301 1995546407 0xb366547520 0xf7x85301 0xf7x854754754 0xf7x854754754 0xf7x854754754 0xf7x854754754 0xf7x854754754 0xf7x854754 0 | Transactions for passing the key, peep of transactions, sery request, key on block. 4th such bey on block. 4th such block bey on block. 4th such block bey readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, supplier) and the such as th   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales02298erbcs74070c41304d8015508d119s33cbale7702297d9f6738888  Average  2023-02-13 transaction hash 0x120x302207343365627420e577dsaxf234ccc960f0s449965fs86c56994242942  2023-02-13 transaction hash 0x816467696be8271dsaxf3467475cc6960f0s449965fs86c56994242942  2023-02-13 transaction hash 0x816467696be8271dsaxf4475acc96227953021cd8250ec56s198023c677aca348 0x82646427103x6c5694498814665430d6e53ac703e6969983830e777aca348 0x82646427103x6c5694498814665430d6e53ac703e6969983830e777aca348 0x8264656966be8271dsaxf466655ac9627563657996629696666565666664448006666666 0x82646467103x6c5694498814762962756364799666658666664448006666669696886666666666666666   | 20096 21944   | 73319410 €0,002334412 73323479,5 €0,002322687  asiPrice (wel) contract address 2565467520 0xf7x85311186  asiPrice (wel) contract address 1395546407 0xD36528470xe  asiPrice (wel) contract address 1395546407 0xD36528470xe  asiPrice (wel) contract address 1279634772 €0,226480781  4711526347 €0,24680781  4711526347 €0,45101239  4711527634772 €0,45101239  4711527634774 €0,45101239  471152763474 €0,45101239  471152763474 €0,45101239  471152763474 €0,45101239  471152763474 €0,45101239  471152763474  471152763474  471152763474  471152763474  471152763474  471152763474  471152763474  471152764  47115776  471 | Transactions for passing the key, peep of transactions, sery request, key on block. 4th such bey on block. 4th such block bey on block. 4th such block bey readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, key readers (action). One for each of the users (manufacturer, supplier) and the such as th   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000balesde209ebcs74070c41304d8015508d119s33cbale.702297d9f5738f88 Average  2023-02-13 framsaction hash 0x1273d3220738t38ct27420e57dssadf234ccs9001ss44s965fs8ec5be94242942 2023-02-13 framsaction hash 0x1273d3220738t38ct27420e57dssadf234ccs9001ss44s965fs8ec5be94242942 2023-02-13 framsaction hash 0x1273d34ct297dssadf24444475acs9c27593021cs8f556ec5fs819sa023c67222574 etd date Transaction hash 0x6c2054ct294de47010ac5569469bal 46964530c6e53ac703e6966938300e77acs548 etd date Transaction hash 0x6c2054ct294de47010ac5569469bal 46964530c6e53ac703e6966938300e77acs548 0x6c2054ct294de47010ac5569469bal 46964530c6e53ac703e6966938300e77acs548 0x6c2054ct294de47010ac55c464695469540740000000000000000000000000000000000   | 20096 21944   | 73319410 €0,00234412, 73323479,5 €0,0023322887  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2578546772 0xf3x852478ce 2578545722 0xf7x85528747 25726347722 0xf2x852478ce 25726347722 0xf2x8547874 2772634772 0xf2x8547874 2572634772 0xf2x8547874 25726347471 0xf2x8547874 25726347471 0xf2x854784 257263474741200 0xf2x854784 25726347441200 0xf2x854784 25726347441200 0xf2x854784 2572634741200 0xf2x854784 25  | Transactions for passing the key, peep of transactions sery request, key on block. 4th such between the peep of transactions in the peep of the peep o   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| 0.0000balante3298erbcs74070c413048015508d119s33cbala6702297d9f6738888  Average  2023-02-13 transaction hash 0x120d30207343363627420e577dsad7234cc9900s44986588e6c58e94242942  2023-02-13 transaction hash 0x861857e50be6827dsad144475ac08227533021cd8250ec56a19s0223c67222974  2023-02-13 transaction hash 0x861857e50be6827dsad144475ac08227533021cd8250ec56a19s0223c677222974  2023-02-13 transaction hash 0x861857e50be6827dsad144475ac08227533021cd8250ec56a19s0223c6777aca344  2023-02-13 transaction hash 2023-02-13 transaction hash 0x862054642700ds275646bb14606430dc682605056666650563330e777aca344 0x862054642700ds27564450814607300ds2758aa66686686505666665544000ds6c66566 0x8c1056566ceb6d09f96b0467720ac2554aa66666666506666656544000ds6c66566 0x8c1056566ceb6d09f96b0467720ac2554aa6666666666666666666666666666666666  | 22058 21944   | 73319410 €0,002334412 73323479,5 €0,0023322887  asPrice (we) contract address 2566457520 0ar/7865311186  asPrice (we) contract address 2666457520 0ar/7865311186  asPrice (we) ETH price 2776625058 €0,287663401 405664607 0ar/8654107 0ar/8654107 0ar/8654107 0ar/865407 0ar/86540 | Transactions for passing the key,<br>page of brandaction, selections of the control   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales04209erber970070-4130448015598d119s33-cba8c702297d987338888 Average  2023-02-13 framsaction hash 0x1270430220738138c827420e57dssadf234ccs90010s6419656s86c5b994242942 2023-02-13 framsaction hash 0x1270430220738138c827420e57dssadf234ccs90010s6419665s86c5b994242942 2023-02-13 framsaction hash 0x1270430220738138c827420e57dssadf234ccs90010s6419665s86c5b994242942 2023-02-13 framsaction hash 0x1270430220738136c827420e57dssadf234ccs90010s6419665s86c5b994242942 2023-02-13 framsaction hash 0x6220446271036c556440ba1469643006653ac7034e58669593030e77accs348 0x620464627046205694695030622753449868653ac7034e5869593030e77accs348 0x620464671036c556440ba14696430062375acs464086034609509500e77accs348 0x61056566ceb6600990bc4ee99802217635003a210671ds446769855ba36680bc5 0x61056566ceb6600990bc4ee99802217635003a210671ds464769855ba365980c5 0x61056566ceb6600990bc4ee99802217635003a210671ds4646769855ba365986003 0x61056566ceb6600990bc4ee99802217635003a210671ds466598600365566659860036000000000000000000000000000000000  | 22058 21944   | 73319410 €0,002334427 5  | Transactions for passing the key<br>per of biodactions, by request,<br>key or block. 4th author<br>per or block. 4th author<br>per or block. 4th author<br>per or block. 4th author<br>per or block. 4th author<br>for main (public keys)<br>8th 4th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales62298ebcs74070c413048015508d119s33cbale702297898738888  Average  2023-02-13 transaction hash 0x12545220738385627420e5776sa87234ccs9000s445965886c58994242942  2023-02-13 transaction hash 0x6816955e60be60227das146475ac98227953021cd8259ec56a19s0223c62722574  eet date 12023-02-13 transaction hash 0x6816954e60be6027das146475ac98227953021cd8259ec56a19s023c62722574  eet date 12023-02-13 0x6827844e7010x672596496bs146964303de656700566649530330e777aca344  extransaction hash 12023-02-13 0x6827844e7010x672569469bs14696383021cd973665666665666656777aca344  0x687096467010x67256467727aca7544ad6666666656666665666666777aca344  0x687096467010x6725646767366727626754ad666666666666666666666666666666666666  | 20086 21944   | 73312410 €0,002334217 73323479,5 €0,0023322417 73323479,5 €0,002322418  asPrice (wel) contract address 2856457520 0ar/385311186 285646470 7,0032624870e asPrice (wel) ETH price 2798253058 €0,227683401 2796245727 €0,264602761 4711623947 €0,451012393 48571526 €0,003232470e 48571526 €0,00323240e 48571526 €0,00323240e 48571526 €0,0032240e 48571526 €0,0032240e 48571526 € | Transactions for passing the key, peep of brainfaction, see year of brainfaction, see year, they on block, 4th such see you bl   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales04209erber970070-4130448015598d119s33-cba8c702297d987338888 Average  2023-02-13 framsaction hash 0x1270430220738138c827420e57dssadf234ccs90010s6419656s86c5b994242942 2023-02-13 framsaction hash 0x1270430220738138c827420e57dssadf234ccs90010s6419665s86c5b994242942 2023-02-13 framsaction hash 0x1270430220738138c827420e57dssadf234ccs90010s6419665s86c5b994242942 2023-02-13 framsaction hash 0x1270430220738136c827420e57dssadf234ccs90010s6419665s86c5b994242942 2023-02-13 framsaction hash 0x6220446271036c556440ba1469643006653ac7034e58669593030e77accs348 0x620464627046205694695030622753449868653ac7034e5869593030e77accs348 0x620464671036c556440ba14696430062375acs464086034609509500e77accs348 0x61056566ceb6600990bc4ee99802217635003a210671ds446769855ba36680bc5 0x61056566ceb6600990bc4ee99802217635003a210671ds464769855ba365980c5 0x61056566ceb6600990bc4ee99802217635003a210671ds4646769855ba365986003 0x61056566ceb6600990bc4ee99802217635003a210671ds466598600365566659860036000000000000000000000000000000000  | 22056 21944   | 73319410 €0,00234412 7 3323479,5 €0,002342287  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2578625059 €0,2278634071 0xf3x852478ce 4x8767ce (wel) ETH price 278825059 €0,2278634072 0xf3x8574724 0xf3x85758445 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x857474 0xf3x85747 | Transactions for passing the key, peep of transactions sery request, key on block. 4th such bey on block. 4th such block bey beyond the block bey readers (actions). One for each of the such great peep of the subset (manufacturer, supplier to supplier). Transactions for storing public key readers (actions). One for each of the subset (manufacturer, supplier) and the such beyond the subset (manufacturer, supplier). Transactions for the storing public key readers (actions). One for supplier 1, supplier? main   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales62298ebcs74070c413048015508d119s33cbale702297898738888  Average  2023-02-13 transaction hash 0x12545220738385627420e5776sa87234ccs9000s445965886c58994242942  2023-02-13 transaction hash 0x6816955e60be60227das146475ac98227953021cd8259ec56a19s0223c62722574  eet date 12023-02-13 transaction hash 0x6816954e60be6027das146475ac98227953021cd8259ec56a19s023c62722574  eet date 12023-02-13 0x6827844e7010x672596496bs146964303de656700566649530330e777aca344  extransaction hash 12023-02-13 0x6827844e7010x672569469bs14696383021cd973665666665666656777aca344  0x687096467010x67256467727aca7544ad6666666656666665666666777aca344  0x687096467010x6725646767366727626754ad666666666666666666666666666666666666  | 22056 21944   | 73319410 €0,00234412 7 3323479,5 €0,002342287  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2578625059 €0,2278634071 0xf3x852478ce 4x8767ce (wel) ETH price 278825059 €0,2278634072 0xf3x8574724 0xf3x85758445 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x857474 0xf3x85747 | Transactions for passing the key, peep of transactions sery request, key on block. 4th such bey on block. 4th such block bey beyond the block bey readers (actions). One for each of the such great peep of the subset (manufacturer, supplier to supplier). Transactions for storing public key readers (actions). One for each of the subset (manufacturer, supplier) and the such beyond the subset (manufacturer, supplier). Transactions for the storing public key readers (actions). One for supplier 1, supplier? main   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales62298ebcs74070c413048015508d119s33cbale702297898738888  Average  2023-02-13 transaction hash 0x12545220738385627420e5776sa87234ccs9000s445965886c58994242942  2023-02-13 transaction hash 0x6816955e60be60227das146475ac98227953021cd8259ec56a19s0223c62722574  eet date 12023-02-13 transaction hash 0x6816954e60be6027das146475ac98227953021cd8259ec56a19s023c62722574  eet date 12023-02-13 0x6827844e7010x672596496bs146964303de656700566649530330e777aca344  extransaction hash 12023-02-13 0x6827844e7010x672569469bs14696383021cd973665666665666656777aca344  0x687096467010x67256467727aca7544ad6666666656666665666666777aca344  0x687096467010x6725646767366727626754ad666666666666666666666666666666666666  | 22056 21944   | 73319410 €0,00234412 7 3323479,5 €0,002342287  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2578625059 €0,2278634071 0xf3x852478ce 4x8767ce (wel) ETH price 278825059 €0,2278634072 0xf3x8574724 0xf3x85758445 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x857474 0xf3x85747 | Transactions for passing the key, peep of brainfaction, see year of brainfaction, see year, they on block, 4th such see you bl   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |
| De0000bales62298ebcs74070c413048015508d119s33cbale702297898738888  Average  2023-02-13 transaction hash 0x12545220738385627420e5776sa87234ccs9000s445965886c58994242942  2023-02-13 transaction hash 0x6816955e60be60227das146475ac98227953021cd8259ec56a19s0223c62722574  eet date 12023-02-13 transaction hash 0x6816954e60be6027das146475ac98227953021cd8259ec56a19s023c62722574  eet date 12023-02-13 0x6827844e7010x672596496bs146964303de656700566649530330e777aca344  extransaction hash 12023-02-13 0x6827844e7010x672569469bs14696383021cd973665666665666656777aca344  0x687096467010x67256467727aca7544ad6666666656666665666666777aca344  0x687096467010x6725646767366727626754ad666666666666666666666666666666666666  | 2006 21944   2006   21944   21  | 73319410 €0,00234412 7 3323479,5 €0,002342287  asPrice (wel) contract address 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2565467520 0xf7x8551118E 2578625059 €0,2278634071 0xf3x852478ce 4x8767ce (wel) ETH price 278825059 €0,2278634072 0xf3x8574724 0xf3x85758445 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x8574724 0xf3x857474 0xf3x8574724 0xf3x857474 0xf3x85747 | Transactions for passing the key, page of bransactions, sery request, key on block. 4th such bey beyond the beyond be   | 2<br>ETH/EUR 13 feb | € 0,004341977847077040  Final cost ETH  € 0,002361930196280130  2023 (adj. close, source; htt | € 6,18940258145138000000  Final cost € € 3,3688842561934000000 |  |  |  |  |

| 0  |  |   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
|--|--|---|---|--|--|--------------|--------------------------------|---|----------------|-----|--|--|--|--|--|
| 0  | x5b05e88e10d036b85170bf1384eaf86886cbd8f75f6dbe54f3f43506122347b6  | 150603 23545232228  | 65 350817303  | 2 Transactions fo  | r the storage of   |              |                                |   |                |     |  |  |  |  |  |
|  | x119d48382d5752ef866763cb1621d756d9ab57cc834b3406df312156abace833  | 159693 23545232228<br>159693 23922947566  | 65,335617302<br>65,445800111  | the elements. 3  | action of the  |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 159693 25117714544  | 65 717775883  | authorities (eac   | ch of them: one  |              |                                |   |                |     |  |  |  |  |  |
|  | weinge   | 100000 20111114044  | CD,717770000  | o sunsuccion per   | additionty)  |              |                                |   |                |     |  |  |  |  |  |
| 2022 02 12 0   | x02ad438c9e48864fba0688bdcedcdbf5f5f954ff3785ed80595cc009fb21b299  | 67731 22340990368   | 62 15700442   | 2  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x614a0bf07d1b86ea12585bc58ff7350bbdf4b2279692664be80856413e6c2f81  | 67731 27469125762   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x0ba02f39a7ba26abe0378c1f4dab07ce1f952959912d2881c71c9e443d4f0900  | 67731 30885116681   | £2 981932871  | 1 Transactions fo  | r the storage of   |              |                                |   |                |     |  |  |  |  |  |
| 0  | x7355de2fe3280b6ee26568137635b77f659fe3b8d7d909bdd680c2438031cf5a  | 67731 39415114259   | 63 805497193  | the public parar   | meters. 4th action   |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 67731 30027586768   | 63,000497190  | of the authoritie  | es (each of them:  |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 07731 30027360706   | £2,000130030  | o one transaction  | per authority)   |              |                                |   |                |     |  |  |  |  |  |
| 2022 02 12 0   | x58e4603h9feee028cf7761a917cd87d9chf89f20f5135e4fac6a5ae40e9hf747  | 67688 40254773762   | £3 99400910   | 2  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x8eeaa9a5fc8ea81de45d02831c3d63b0cb7235f2990bd0a6b24c75759d87ebab  | 67688 47893224051   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
| 0.0  | xee11222a4a0929345827a42138ch9df58eh274cc97f9caf8ff08h4955a2018ea  | 67688 42040537940   | 64,021110140  | n Transactions for   | r the storage of   |              |                                |   |                |     |  |  |  |  |  |
|  | x8b79002fad73439889cc31beb1d5aa7e038e01db1e8abb52f5a4bede61244288  | 67688 42588138723   | 64,000402810  | the public keys.   | . 5th action of the  |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 67688 43194168619   | 64 107714301  | authorities (eac   | ch of them: one  |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 07000 43194100019   | 64,10771420   | i wansacoon per  | autionty)  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-13 0   | xf942ffd938337dc34297f7af25d5d3a0a705cfade1427b32e3caf3057dfe5b9b  | 89772 71557451398   | 69 157077576  | 6  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x52461e74c7d12b7a370b1abf8c80dd9060f45b7a7e4a088233f7a5e0bca2f23b  | 89772 70561392007   | 69 029613650  | 0  |  |              |                                |   |                |     |  |  |  |  |  |
|  | xbd61bc3b66094d0535b574bd92f9dfa491e560a783d944cd9d2f00c523424095  | 89772 60597412864   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x05ab4b3d7cec3139347471c036770fddd504025e3ff273f74712644058516782  |   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x18644d7647b24620eb2bcd4fff6462e677ac2f184f8ee6829dc4797f742e954f  | 89772 67263499366<br>89772 62763308233  | €8 031706988  | Transactions fo  | r the storage of   |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 89772 66548612774   | 68 516105561  | 1 MARTSIA anno   | ction 2.4 of the   |              |                                |   |                |     |  |  |  |  |  |
| ,  | weinge   | 03172 00340012174   | 0,51010300  | i mare rour appro  | oucii  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-13 0   | x00c87cd75d351625f9ccf6dab8ccf22f396f76a1cfd3d6fd928ca50ca0d4688b  | 21848 55516561696   | €1 729001526  | 6  |  |              |                                |   |                |     |  |  |  |  |  |
|  | xe4074eacab3212ec6616b0e388ce53001fe7e43d0d54eb0a3662bebbd55ead90  | 21848 55516561696<br>22072 54384338095  | €1.711105010  | Transactions fo  | r passing the key.   |              |                                |   |                |     |  |  |  |  |  |
| A.   | werage   | 21960 54950449896   | £1 720143PE   | Pair of transacti  | ions: key request,   |              |                                |   |                |     |  |  |  |  |  |
|  | g-   | F1000 04000449090   | 21,120143000  | y on block. If   |  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-13 04  | x17dfa9f0b863f2615d510993d9f5c4e37abb1aca864f2a1cab655cf4cb2c1833  | 21848 60841282044   | £1.894834016  | 5  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x5081afcc1a0e15ad2f976ce40d636b3d9404c9021debcfc1f290ad730624700f  | 21848 60841282044<br>22072 61441693923  | £1 933151070  | Transactions fo  | r passing the key.   |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 21960 61141487984   | £1 91394508   | <ul> <li>Pair of transacti</li> <li>key on block 2</li> </ul>  | ions: key request,   |              |                                |   |                |     |  |  |  |  |  |
|  |  | 2.223 01141437504   | 2.,2.00+000   | , 50000. 21  |  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-13 O   | x29247b7d694a94be1405fb407103184a96fd7ffdbb13248428931afb3e15704c  | 21848 76705271749   | €2.388900319  | 9  |  |              |                                |   |                |     |  |  |  |  |  |
|  | xae174e06ad45ce55802d0306fadd949ddb8423d2000c45a0ef0a4545dbf25f94  | 21848 76705271749<br>22072 67167846512  | £2 11331503   | Transactions fo  | r passing the key.   |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 21960 71936559131   | £2 25186901/  | <ul> <li>Pair of transacti</li> <li>key on block 3s</li> </ul>   | ions: key request,   |              |                                |   |                |     |  |  |  |  |  |
|  | - · · · ·  | / 1000009101  | .2,22 10000 14  | ,  |  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-13 04  | x3d96ce9d17993f32b5cbd05fb455325c90637e880f09af5dd4f56ed68dc302d5  | 21848 79027718182   | £2 461230266  | 6  |  |              |                                |   |                |     |  |  |  |  |  |
|  | x30960e9d17993132b30b0b0bb455325090637e660109815004150e06600302d5<br>x55e4b417b168bbdad6d55c7a45a7c9940654de52948a466774a2050c8d08fe76   | 22072 74780584228   | £2 352838071  | Transactions fo  | r passing the key.   |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 21848 79027716182<br>22072 74780584226<br>21980 76904150204   | €2.40737220   | 4 key on block 4   | ions: key request,<br>th auth  |              |                                |   |                |     |  |  |  |  |  |
|  | weinge   | 21000 70004100204   | CE,40707EE0   | wey on block. 4  | ur dour  |              |                                |   |                |     |  |  |  |  |  |
|  |  |   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
|  |  |   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 tra   | raneartion hash  | gasUsed (unit) gasPrice (wei)   | contract address  |  |  |              | Final cost ETH                 | Final cost €                              |                |     |  |  |  |  |  |
|  | xa3f974ca4c74f26decab4cb44443a2cf0586d50903b97c5f7ea5c872917f32ed  | 1692477 1785440337  | OxaaOha694e64   | 4Fa49447828C28   | 3241rl104C0846Ce69   |              |                                | € 4,24885559657642000000                  | n              |     |  |  |  |  |  |
|  | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   | 1002477 1700440007  | 0,000,000,000   | ***************************************  | 241010400040000  |              | C 0,00002 1010100244140        | C 4,2400000000000000000000000000000000000 |                |     |  |  |  |  |  |
| 2023-02-14 14  | ransaction hash  | gasUsed (unit) gasPrice (wei)   | contract address  | s for 'main' (public   | c keys)  |              | Final cost ETH                 | Final cost €                              |                |     |  |  |  |  |  |
|  | xfdcf10b2f4a84a941f656034dca5248d6c077474eb73cfb804e9e2182bef4e00  | 1692477 1696693309  | 0xC8hffDhcC42   | 208cd546036eb05  | 928251eD3Ra7aD41   |              |                                | € 4,03766214542426000000                  | n              |     |  |  |  |  |  |
| -  |  |   |   |  |  |              |                                |   | -              |     |  |  |  |  |  |
| Test date Tr   | ransaction hash  | gasUsed (unit) gasPrice (wei)   | FTH price   |  | F  | TH/FUR 14 fe | h 2023 (adi. close, source; hi | tos://finance.vahoo.com/quote/E           | TH-FUR/history | n . |  |  |  |  |  |
| 2023-02-14 0   | x2e2d82449fc098f44a82bde64294f65888e9eb71af7e2d8eb68119e5a3442cbf  | 67153 3040831804  | €0 287118827  | 7 Transactions to  | e atorina nublia   | €1.406.0     |                                |   |                | -   |  |  |  |  |  |
| 0  | xee1db1d56c839ae7eedfd606071cf927685cac0797541d96db1f7c6f50385646  | 67153 2884228053<br>67153 2830967436  | €0.272332121  | 1 key readers (ac  | ctors). One for  |              |                                |   |                |     |  |  |  |  |  |
|  | x3c0eb235cbf51ac888af900b9a2b0dfae7a5395624890f485f51121f9a8a363f  | 67153 2830967436  | €0.267303193  | each of the use  | ers (manufacturer,   |              |                                |   |                |     |  |  |  |  |  |
|  | werage   | 67153 2918675764  | €0.275584714  | 4 key on block   | merz)  |              |                                |   |                |     |  |  |  |  |  |
|  |  |   |   | 72.  |  |              |                                |   |                |     |  |  |  |  |  |
| Test date Tr   | ransaction hash  | gasUsed (unit) gasPrice (wei)   | ETH price   |  |  |              |                                |   |                |     |  |  |  |  |  |
|  | xf9c0c1e597bf5af7f44fe8cd972fd859035000c0f107f1396975d9e20a9edf2d  |   | €0.143650477  | 7  |  |              |                                |   |                |     |  |  |  |  |  |
| 0  | xb00c083237f2e9ddfe6eceb34cbb7b16d4e73494a603e7f28b81de08209c0869  |   |   |  |  |              |                                |   |                |     |  |  |  |  |  |
| 0  |  | 67153 1449831355  | €0,136894740  | Transactions fo  | r storing public   |              |                                |   |                |     |  |  |  |  |  |
|  | xe2eace5113493770751f1d8c8a29b19c8aa053b56d08e13e2d74d2296a46e4e9  | 67153 1449831355  | €0,136894740<br>€0,132738169  | Transactions fo<br>key readers (ac   | er storing public<br>ctors). One for   |              |                                |   |                |     |  |  |  |  |  |
|  |  | 67153 1449831355<br>67153 1405809743  | €0,132738169  | each of the use  | ators). One for<br>ers (manufacturer   |              |                                |   |                |     |  |  |  |  |  |
|  | xe2eace511349377075111d8c8a29b19c8as053b58d08e13e2d74d2296a46e4e9<br>.werage   | 67153 1449831355  | €0,132738169  | each of the use  | ators). One for<br>ers (manufacturer   |              |                                |   |                |     |  |  |  |  |  |
| A  | werage   | 67153 1449831355<br>67153 1405809743  | €0,132738169<br>€0,137761128  | each of the use<br>supplier1, supp   | ators). One for<br>ers (manufacturer   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 Ox  |  | 67153 1449831355<br>67153 1405809743<br>67153 1459007145  | €0,132738169<br>€0,137761128<br>€0,243022357  | each of the use<br>supplier1, supp   | ators). One for<br>ers (manufacturer   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 0x<br>0x<br>0x  | werage<br>x29c29d0d0ccca83d2c841d456f7bffe356830f13c8772352e6c516a53a142800<br>x0992c3467e65786f77bdba78856c00fd14d357623696f1b9f168e5fbbed8223b<br>x69b63d3df7ca8da656382f2ka0f8c641d90786b4486c287724a76609f   | 67153 1449831355<br>67153 1405809743<br>67153 1459007145<br>67533 2559330262<br>67533 2462917463<br>67533 7542974360  | €0,132738169<br>€0,137761128<br>€0,243022357<br>€0,233867436<br>€0,716246525  | each of the use<br>8 supplier1, supp   | ators). One for<br>ers (manufacturer   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 0x 0x 0x 0x 0x  | verage  x29-230000cea8332c8416458/7bfe36830/13c8772352e6c516a53a142800  x0892c3447e6788/77bdu37885c800/11443577c33896/1b99168e50bebd8223bb  x190063047caa65a656352bfa37866e504744077894644s6bc287724a78069f  x2888374e648879437764676037868695786786969f   | 67153 1449831355<br>67153 1405809743<br>67153 1459007145<br>67533 2559330262<br>67533 2462917463<br>67533 7542974360  | €0,132738169<br>€0,137761128<br>€0,243022351<br>€0,233867438<br>€0,716246525  | each of the use<br>supplier1, supp   | acis), One for<br>res (manufacturer,<br>liler2) main   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 0x  | werage<br>x29c29d0d0ccca83d2c841d456f7bffe356830f13c8772352e6c516a53a142800<br>x0992c3467e65786f77bdba78856c00fd14d357623696f1b9f168e5fbbed8223b<br>x69b63d3df7ca8da656382f2ka0f8c641d90786b4486c287724a76609f   | 67153 1449831355<br>67153 1405809743<br>67153 1459007145<br>67533 2559330262<br>67533 2462917463<br>67533 7542974390<br>67533 11335621861<br>67533 11162143821  | €0,132738169<br>€0,137761126<br>€0,243022357<br>€0,233867436<br>€0,716246526<br>€1,076379076<br>€1,059906389  | g key readers (ac each of the use 8 supplier1, supp 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  | ir the storage of  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 0x<br>0x<br>0x<br>0x<br>0x<br>0x  | verage  x29-230000cea8332c8416458/7bfe36830/13c8772352e6c516a53a142800  x0892c3447e6788/77bdu37885c800/11443577c33896/1b99168e50bebd8223bb  x190063047caa65a656352bfa37866e504744077894644s6bc287724a78069f  x2888374e648879437764676037868695786786969f   | 67153 1449831355<br>67153 1405809743<br>67153 1459007145<br>67533 2559330262<br>67533 2462917463<br>67533 7542974360  | €0,132738169<br>€0,137761126<br>€0,243022357<br>€0,233867436<br>€0,716246526<br>€1,076379076<br>€1,059906389  | g key readers (ac each of the use 8 supplier1, supp 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  | ir the storage of  |              |                                |   |                |     |  |  |  |  |  |
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| 2023-02-14 0x  | werage  220-223-0000-ce-sal53/22-284 144-69F716F6-55683011 5-8772352-e8-5-5 fea53a14 24200  20000-24-6-7-e8-5 7977-754ba7 985-560014 44357722352-e8-5-5 fea53a14 24200  20000-24-6-7-e8-5 7977-754ba7 985-5560014 44357722369611 14991 598-6798-68-48-2272-8-78-78-78-78-78-78-78-78-78-78-78-78-7   | 67153 1448831355<br>67153 1405809743<br>67153 1458007145<br>67533 2559330262<br>67533 2462917463<br>67533 1133621861<br>67533 111362143821<br>67533 7012597553<br>67755 9105077925  | €0,132738166<br>€0,137761126<br>€0,243022351<br>€0,233867436<br>€0,716246525<br>€1,076379076<br>€1,059906386<br>€0,665884356  | g key readers (ac each of the use 8 supplier1, supp 7 6 6 5 5 5 Transactions fo the user's attrib 6 the MARTSIA a  | ir the storage of  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | uveringe  **Concident Oncident State 14456 FT Mile 556 8011 16-87 728 2246-51 846 314 4 2000  **Concident Oncident State 14456 FT Mile 556 8011 16-87 728 2246-51 846 314 4 2000  **Consider Concident State 1450 FT Mile 556 8011 16-85 8011 16-8 | 67153 1446801945<br>67153 1405809743<br>67153 1458007145<br>67533 2559330262<br>67533 2462917483<br>67533 1138621861<br>67533 11162143821<br>67533 701259753<br>67755 9105077925  | €0,132738166<br>€0,137761126<br>€0,243022357<br>€0,233867436<br>€0,716246526<br>€1,076379076<br>€1,059906386<br>€0,665884356<br>€0,867418876<br>€0,834817126  | 9 exp resours (ac<br>each of the use<br>8 supplier1, supp<br>7<br>6<br>5<br>5<br>7<br>7<br>8<br>9<br>9<br>1 Transactions fo<br>the user's attrib<br>6 the MARTSIA a  | on the torse of utes. Action 1 of approach   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | werage  2202260000cccca8324224414669718655683011369772352e655164338142800  2202260000ccca8324224814669718655600014435772352e655164338142800  220226000000467695697726468786556000144357722369615169916966966962322266  220226000046769600000000000000000000000000000   | 67153 1446801945<br>67153 1405809743<br>67153 1458007145<br>67533 2559330262<br>67533 2462917483<br>67533 1138621861<br>67533 11162143821<br>67533 701259753<br>67755 9105077925  | €0,132738166<br>€0,137761126<br>€0,243022357<br>€0,233867436<br>€0,716246526<br>€1,076379076<br>€1,059906386<br>€0,665884356<br>€0,867418876<br>€0,834817126  | 9 exp resours (ac<br>each of the use<br>8 supplier1, supp<br>7<br>6<br>5<br>5<br>7<br>7<br>8<br>9<br>9<br>1 Transactions fo<br>the user's attrib<br>6 the MARTSIA a  | on the torse of utes. Action 1 of approach   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | uveringe  - (20-02-03-00-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0   | 67153 1448931552<br>67153 148909743<br>67153 1459007145<br>67533 2559030022<br>67533 76237420<br>67533 171267452<br>67533 7012507525<br>6755 160077925<br>67756 170077925<br>67756 1743076540<br>67756 1743076540   | €0,132738166<br>€0,137761126<br>€0,243022351<br>€0,233867436<br>€0,716246525<br>€1,059906386<br>€0,665884356<br>€0,867418877<br>€0,834817124<br>€1,386019981<br>€1,283291031  | g exp resours (ac general supplier), supplie | and the storage of utes Action 1 of special of the storage of utes Action 1 of special of special of the storage of names. Ist action see (seach of them   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | werage  2202260000cccca8324224414669718655683011369772352e655164338142800  2202260000ccca8324224814669718655600014435772352e655164338142800  220226000000467695697726468786556000144357722369615169916966966962322266  220226000046769600000000000000000000000000000   | 67153 1448831355<br>67153 1405809743<br>67153 1458007145<br>67533 2559330262<br>67533 2462917463<br>67533 1133621861<br>67533 111362143821<br>67533 7012597553<br>67755 9105077925  | €0,132738166<br>€0,137761126<br>€0,243022351<br>€0,233867436<br>€0,716246525<br>€1,059906386<br>€0,665884356<br>€0,867418877<br>€0,834817124<br>€1,386019981<br>€1,283291031  | g exp resours (ac general supplier), supplie | and the storage of utes Action 1 of special of the storage of utes Action 1 of special of special of the storage of names. Ist action see (seach of them   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00<br>00<br>00<br>00<br>00<br>00<br>Av<br>2023-02-14 00<br>00<br>00   | uverige  - (20-02-03/00-cu-sal 34:22-04-144/59/71/84-05-68/00/71 3-87 72/82-04/65-5 84/33-4 4.200  - (20-02-03/00-cu-sal 34:22-04-144/59/71/84-05-68/00/71 3-87 72/82-04/65-5 84/33-4 4.200  - (20-02-03/00-cu-sal 34:22-04-14-05-68/00-cu-sal 34:20-02-04-04-04-02-02-04-04-04-02-02-04-04-04-02-02-04-04-04-02-02-04-04-04-02-02-04-04-04-02-02-04-04-04-02-04-04-04-02-04-04-04-02-04-04-04-04-04-04-04-04-04-04-04-04-04-  | 67153 1448931552 67153 1448930743 67153 1459007145 67153 1459007145 67533 2459217463 67533 754297450 67533 7754297450 67533 7701297755 67756 6726265501 67756 14730736431 67756 14730736431 67756 14730736431   | €0,132738166<br>€0,137761126<br>€0,243022357<br>€0,233867436<br>€0,716246525<br>€1,076379076<br>€1,059906388<br>€0,665884356<br>€0,867418876<br>€0,834817126<br>€1,366019987<br>€1,263291037<br>€1,067886757  | g key readers (size each of the use auch of the use supplier1, supplier f f f f f f f f f f f f f f f f f f f  | and the storage of utes Action 1 of special of the storage of utes Action 1 of special of special of the storage of names. Ist action see (seach of them   |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | werage  2202230000ccccas83222484144569728655830311369772382e45516a83a142800  2202230000cccas8322248414456972866530311369772382e45516a83a142800  220223000000cccas8322228678655500114483578226969119691696696bed08222386  2202230000000000000000000000000000000   | 67153 1446931556<br>67153 1465090743<br>67153 1459007145<br>67533 2598930225<br>67533 754297490<br>67533 1182641861<br>67533 1182641861<br>67533 1182641861<br>67536 9100077925<br>67756 6726090750<br>67756 14397084831<br>67551 1416273819  | €0,132738165<br>€0,137761126<br>€0,243022351<br>€0,233867435<br>€0,716246525<br>€1,076379075<br>€1,059906385<br>€0,665884355<br>€0,867418875<br>€0,834817124<br>€1,386019981<br>€1,283291031<br>€1,087886751<br>€2,005947610  | g key readers (see sech of the use asch of the use supplier1, supplier 1, supplier 1, supplier 1, supplier 1, supplier 1, supplier 1, supplier 2, supplier 2, supplier 3, supp | and the storage of utes Action 1 of special of the storage of utes Action 1 of special of special of the storage of names. Ist action see (seach of them   |              |                                |   |                |     |  |  |  |  |  |
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| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | werage  202-203-000-counsibility202-84 144-6977 files/55683011 1-857 72382-264-55 featiss at 42800  202-203-0000-counsibility202-84 144-6977 files/55683011 1-857 72382-264-55 featiss at 42800  202-203-203-203-203-203-203-203-203-203-  | 67153 1446891356 77153 1446891356 77153 1469690744 677153 1459007145 677153 1459007145 677153 1459007145 67755 145907145 67755 175526 7755 754297490 75755 7  | E0.132738165 E0.13776112 E0.243022357 E0.233867434 E0.2716246322 E1.076237627 E1.07637607 E1.069900380 E0.66584356 E1.065900380   | each of the use supplier is supplier in su | and the storage of th |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | werage  202-203-000-ceasilistization 44-697746-556830113-677235246-51 5643314-2800- 202-203-0000-ceasilistization 44-697746-556830113-677235246-51 5643314-2800- 202-203-203-203-203-203-203-203-203-203-  | 67153 1448691355 67151 1448691355 67153 1456060743 67153 1456060743 67153 1556063030020 67533 15560630020 67533 15560630020 67533 15560630020 67533 1556060 6753 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 6756 1556060 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 15560600 67573 155606000 67573 155606000 67573 155606000 67573 155606000 67573 155606000 67573 155606000 67580   | E0.132738165 E0.137781125 E0.243022355 E0.233867438 E0.271824825 E0.271824825 E1.0787379075 E1.059900383 E0.685884356 E0.68584356 E0.68584356 E0.68584356 E0.687418877 E2.005947811 E1.882910935 E1.882910936 E1.882910936 E1.882910936 E1.882910936 E1.882910936 E1.882910936 E1.1898019936 E1.19984314 E1.  | service de la composición del la composición del la composición de la composición del l | and the storage of disease. It is storage of disease, and the storage of manes, is faction and the storage of disease, and the storage of dise |              |                                |   |                |     |  |  |  |  |  |
| A 2023-02-14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | werage  202-203-000-00-00-008-002-02-84 14-66977-869568-3011-98-77.2032-86-55 1643-38 14-2000  202-203-000-00-008-002-02-84 14-66977-869568-3011-98-77.2032-86-55 1643-38 14-2000  202-203-000-008-008-008-008-0011-86957-820-369511-98-16-98-66-98-002-22-38-  202-203-008-008-008-008-008-008-008-008-008-0  | 67153 14486931556 75153 145669741 67533 2569530022 67533 2469517463 67533 754207450 67533 754207450 67533 754207450 67533 754207450 6753 754207450 6753 754207450 6753 754207450 6755 6755 6755 6755 6755 6755 6755 67  | E0.132738165 E0.137678125 E0.243022355 E0.233867438 E0.233867438 E0.2716246525 E1.076378077 E1.059900380 E0.86884356 E0.86884356 E0.868418712 E1.369201303 E1.069788975 E1.269220130 E1.269240130 E1.269  | each of the use supplier is supplier in su | in the storage of clusters, lief 2) main in the storage of clusters. Action 1 of pipocach in the storage of clusters. Action 1 of pipocach in the storage of names, 1 size of them, 1 of the storage of members, 2 not of them, per authority) in the storage of medical points. The storage of medical points are storage of medical points are storage of medical points.  |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | werage  2022-203000-ce-ai83222-264 14469F7166596830113-07772352-66-51 584334 142000  2022-2030000-ce-ai83222-264 14469F7166596830113-07772352-66-51 584334 142000  2022-2030000-ce-ai83222-264 185650001443577223696115991 586496he-dist22236  2022-203000000000000000000000000000000  | 67153 1448691355 67151 145060743 67153 145060743 67153 145060743 67153 1550603020 67153 1550603020 67153 1550603020 67153 1550603020 67153 1550603020 67153 1550603 67153   | E0.132738165 E0.13778112 E0.243022355 E0.233867438 E0.2718263265 E0.233867438 E0.665884355 E0.665884355 E0.665884355 E0.665884355 E0.665884355 E0.66741867 E0.200946741 E1.2632201303 E1.06746675 E2.00594761 E1.2632201303 E1.06746767 E1.1596010965 E1.1596010965 E1.1596010966 E1.1596010966 E1.1596010966 E1.15964316 E1.1  | service de la composición del la composición del la composición de la composición del l | and the storage of th |              |                                |   |                |     |  |  |  |  |  |
| 2023-02-14 00 00 00 00 00 00 00 00 00 00 00 00 00  | werage  202-203-000-00-00-008-002-02-84 14-66977-869568-3011-98-77.2032-86-55 1643-38 14-2000  202-203-000-00-008-002-02-84 14-66977-869568-3011-98-77.2032-86-55 1643-38 14-2000  202-203-000-008-008-008-008-0011-86957-820-369511-98-16-98-66-98-002-22-38-  202-203-008-008-008-008-008-008-008-008-008-0  | 67153 14486931556 75153 145669741 67533 2569530022 67533 2469517463 67533 754207450 67533 754207450 67533 754207450 67533 754207450 6753 754207450 6753 754207450 6753 754207450 6755 6755 6755 6755 6755 6755 6755 67  | E0.132738165 E0.13778112 E0.243022355 E0.233867438 E0.2718263265 E0.233867438 E0.665884355 E0.665884355 E0.665884355 E0.665884355 E0.665884355 E0.66741867 E0.200946741 E1.2632201303 E1.06746675 E2.00594761 E1.2632201303 E1.06746767 E1.1596010965 E1.1596010965 E1.1596010966 E1.1596010966 E1.1596010966 E1.15964316 E1.1  | service de la composición del la composición del la composición de la composición del l | and the storage of th |              |                                |   |                |     |  |  |  |  |  |

| 0x2957c4abfc8b1d91aeaf9d3f58037ada792b1774cfbd3be3e4c6bc4a6198567e   |  |  |   |                                 |                |   |  |  |
|--|--|--|---|---------------------------------|----------------|---|--|--|
|  | 89772 9182177121   | €1,159018639   |   |                                 |                |   |  |  |
| 0x068acb892b13e590af07d059cd8f2b76b5c707e6f22fead5f01887efc3d3e0ff   | 89772 7788413448   | 3 €0,983091072   |   |                                 |                |   |  |  |
| 0x592bc1fc243d1e8cb6e8207f16659da7f5c85b0a81e88947d04749aaa4d4f0ad   | 89772 8885680160   | €1,121593364   |   |                                 |                |   |  |  |
| 0x9a8a6197af0a568eae2d9a40cac76bb3b96f0e56e42c2d04a8875b06462fd600   | 89772 8673518572   | Transactions for the storage of<br>the IPFS link, Action 2.4 of the  |   |                                 |                |   |  |  |
| Average  | 89772 8593830528   | B €1,084754697 MARTSIA approach  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| 23-02-14 0x04c2fdce0562d52463a832a91ef3c2ac464a783a4b5628e23cfd41569c7137b7  | 21832 13065460427  | 7 €0,401071770 Transactions for passing the key. 60,434373054 Pair of transactions: key request,   |   |                                 |                |   |  |  |
| 0x5ba94c8665999b98e6d2d750b99c6fd2b856d5b15af678081b94023449693c5f   | 22056 14006585285  | F0 434373054 Transactions for passing the key.   |   |                                 |                |   |  |  |
| Average  | 21044 13536022856  | B €0,417648309 key on block. 1st auth  |   |                                 |                |   |  |  |
| Arciugo  | 21044 10000022000  | CO,417 040000 INCY OIL DIOCK. TOL BOOK   |   |                                 |                |   |  |  |
| 3-02-14 0x1d98a5f770d9f41944e218295072cdfd5e60daf1675a10298a34ec45287a6cba   | 21832 13273522020  | 60 407459859   |   |                                 |                |   |  |  |
|  | 21632 13273322020  | Transactions for passing the key.  |   |                                 |                |   |  |  |
| 0xa75a0641ceb4a0b66a90ccd76508ba77faf92971352c8d48dd528e3e2265a357   | 22056 13260368237  | €0,411231327 Pair of transactions: key request,  |   |                                 |                |   |  |  |
| Average  | 21944 13266945129  | 7 €0,411231327 Transactions for passing the key. Pair of transactions: key request, key on block. 2nd auth   |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| 3-02-14 0xf963e7037a11b20b885f21bda273209988f1fa9779a57f56382dd96dd98cb74  | 21832 13274330339  | 9 €0,407483471<br>2 €0,439383543 Transactions for passing the key.<br>Pair of transactions: key request,<br>key on block. 3rd auth   |   |                                 |                |   |  |  |
| 0x9b1ebb2a190f55003a4fd5b30ffe125fa8097b0edaa372b6a855fbe05d19f90f   | 22056 14168151112  | 2 €0,439383543 Pair of transactions for passing the key.   |   |                                 |                |   |  |  |
| Average  | 21944 13721240726  | Pair of transactions: key request,<br>3 €0.423363128 key on block. 3rd auth  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| 3-02-14 0x67589690bec7de47985983d2558c440dc143d9b7df181a514abf9cb42ab7d725   | 21922 15265609160  | 60 469613603   |   |                                 |                |   |  |  |
| 0xe3b78e98df3fbf0200f5e2481022c5166ad64baecf4ca567ea4967ff572740dd   | 21032 10200000109  | 9 €0,468612693<br>7 €0,456968968 Pair of transactions: key request,<br>8 €0,462832601 key on block. 4th auth   |   |                                 |                |   |  |  |
|  | 22050 14735202287  | Pair of transactions: key request,   |   |                                 |                |   |  |  |
| Average  | 21944 15000450228  | EU,462632601 Key On DIOCK. 4th auth  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| 3-02-15 transaction hash   | gasUsed (unit) gasPrice (wei)  |  |   | Final cost €                    |                |   |  |  |
| 0xd104962bbb85c45d59171f0309de9aa0d800a57d41061fb8f57d95ed3ac3a2e9   | 1692477 28033052121  | 1 0x5c0BBEe7663E73254F698612e4d66193b1A98E   | £10 € 0,047445295954593700                  | € 68,47115330983150000000       |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| -02-15 transaction hash  | gasUsed (unit) gasPrice (wei)  | contract address for 'main' (public keys)  | Final cost ETH                              | Final cost €                    |                |   |  |  |
| 0xc277b98c9b6c5f7ffa94062dbe37682a14c6a1770193b25ce4d1137426640db7   |  | 5 0xdD6a1A82106E43680FdeAc417bE1620f284D90   |   | € 80.08272285613980000000       |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| ate Transaction hash   | gasUsed (unit) gasPrice (wei)  | FTH price  | ETH/EUR 15 feb 2023 (adj. close, source; ht | ns://finance.vahoo.com/aucto/ET | TH-FUR/history | 0 |  |  |
| -02-15 0x3ddc9c7b63f7b10c9464ad69a807b3222f90e10790f60784b58821105ec8c62b  |  |  | €1.443.16                                   |                                 | VIIIBIUIV/I    | * |  |  |
| -U2-15 UX3ddc9c7b63f7b1Uc9464ad69a8U7b3222f9Ue1U79Uf6U784b588211U5ec8c62b  0x199be361c229956a565e3f442ee2aab55763a9d078068e31663faad2e28f2ec1  | 07100 20303133494  | 4 €2,553948669 Transactions for storing public   | C1.443,10                                   |                                 |                |   |  |  |
|  | 6/153 24481507162  | 2 €2,372564638 key readers (actors). One for each of the users (manufacturer, supplier1, supplier2)  |   |                                 |                |   |  |  |
| 0x0c7787e9bca509b52a411c660a9edd4a51766ecb87464e886a40760cb572ba6f   | 67153 26312629367  | €2,550023311 supplier1, supplier2)   |   |                                 |                |   |  |  |
| Average  | 67153 25715756674  | 4 €2,492178873 key_on_block  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| late Transaction hash  | gasUsed (unit) gasPrice (wei)  |  |   |                                 |                |   |  |  |
| -02-15 0xfaab383c59a22f8f7411fae5771a8302154347c53a8af6f982442b811dcd0cb7  | 67153 32344385246  | 8 €3,134575995   |   |                                 |                |   |  |  |
| 0x74c21c14dc8b68f44bbe6381181822e4169c63b82aef722eb4d57a12f0c3ed27   | 67153 30496010315  | 5 €2,955445316 Transactions for storing public   |   |                                 |                |   |  |  |
| 0x9eb079996f09bb4ac39254c9e5d70129c3036f8a699d64546c398cb2952712db   | 67153 26774366304  | 4 €2,594771403 key readers (actors). One for each of the users (manufacturer.  |   |                                 |                |   |  |  |
| Average  | 67153 20871587288  | B €2,894930904 supplier1, supplier2) main  |   |                                 |                |   |  |  |
| Melage   | 07100 25071007200  | CE,00400004 Supplier I, Supplier E) India  |   |                                 |                |   |  |  |
| 02-15 0xac22a1ae5e2ff9fb919116162d63328d28227c03a90e1ca3b818e5178ad43e36   | 67533 25751396410  | CO 500754000   |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| 0xf2565abf0172c154b813b572e8164a35a559bca71faaee3e6a757231b0d37207   | 67533 22825638872  |  |   |                                 |                |   |  |  |
| 0x704b1c485c6f3b08a64d63eaa4d80cfb3a89f0e90d239280bedadee41699cb29   | 67533 22721096727  |  |   |                                 |                |   |  |  |
| 0x839493d9d5bf722c6f01ee5b502117926e3c624ed4216366ec419db2ff6f719e   | 67533 22712560451  | €2,213587134   |   |                                 |                |   |  |  |
| 0xb28af51f7cff11a63f4ed21f73afacbd48c700b23921f4c783485d7e688f1c38   | 67533 22187532385  | Transactions for the storage of<br>the user's attributes. Action 1 of<br>the MARTSIA approach  |   |                                 |                |   |  |  |
| Average  | 67533 23239644969  | €2,264957279 the MARTSIA approach  |   |                                 |                |   |  |  |
| -  |  |  |   |                                 |                |   |  |  |
| -02-15 0x53062c0fbab2a53b5726f3b4dfbfc913a3f47e61137f56f6f238e95f0cc10e6b  | 67755 22895957770  | £2 238796648   |   |                                 |                |   |  |  |
| 0x6f828d3773f9ceb2b57c4ccde689c0cc34cf19d291b6f53699c80d6c74ed8616   | 67755 24480120025  |  |   |                                 |                |   |  |  |
| 0x4cd749ae6e855657c1328afc7266a9c700934f167951fc3f79da5b60afb9c2dc   | 07700 24400120020  | 2 €2,404598405 Transactions for the storage of   |   |                                 |                |   |  |  |
| 0xb6000984b516b4577d1469a348bba437933000253979c1f6995a4a268171a13c   | 67755 24591596372  | the authorities' names. 1st action   |   |                                 |                |   |  |  |
|  | 67755 23904508518  | B €2,337414057 the authorities' names. 1st action of the authorities (each of them:  |   |                                 |                |   |  |  |
| Average  | 67755 23968045671  | 1 €2,343626803 one transaction per authority)  |   |                                 |                |   |  |  |
|  |  |  |   |                                 |                |   |  |  |
| I-02-15 0xac78eba88cb8d839598dc237b1ffe062b7fa26796fdf0531c65c8d9c83c29112   | 113680 22992742759   |  |   |                                 |                |   |  |  |
| 0xf71f241541b6e94be7891388ccdfd6386585f15fe1935dbd3364432e9f1163c2   | 113680 24330710217   | €3,991658090   |   |                                 |                |   |  |  |
| 0x3a226081b476bc3be7a4d43c2f52e6ea3a805a0b16a4c255744e828e910150dd   | 113680 22724257996   | €3,728106062 Transactions for the storage of   |   |                                 |                |   |  |  |
| 0x201be21b06eb9c96b2672e391fc6fcf8d55652b8aced6df0cfa6e3289a984d17   |  |  |   |                                 |                |   |  |  |
|  | 113680 22312593332   | • €3,660569005 of the outbarilion (each of them)   |   |                                 |                |   |  |  |
| Average  | 113680 22312593332<br>113680 23090076076   | 5 €3,728106062 Transactions for the storage of the hashed elements. 2nd action of the authorities (each of them: \$3,788121602 one transaction per authority)  |   |                                 |                |   |  |  |
| Average  | 113680 22312593332<br>113680 23090076076   | the hashed elements. 2nd action of the authorities (each of them: €3,788121602 one transaction per authority)  |   |                                 |                |   |  |  |
|  | 113680 22312593332<br>113680 23090076076<br>159693 19880940521   | 6 €3,788121602 one transaction per authority)  |   |                                 |                |   |  |  |
| -02-15 0x7c172103efcbd74dd81ddb129c334efb0032119bdec00e046c5b7d489f9b6563  | 113680 23090076076<br>159693 19880940521   | 6 €3,788121602 one transaction per authority) 1 €4,581812246   |   |                                 |                |   |  |  |
| 3-02-15 0x7c172103efcbd74dd81ddb129c334efb0032119bdec00e048c5b7d489f9b6563 0x7078b7da8ac5f88e68a630738a8db3933ae3984d8cx4c20c194be4c41e51b8c5  | 159693 19880940521<br>159693 18617005770   | 6.5,788121802 one transaction per authority)  1 64,581812246  64,290522621   |   |                                 |                |   |  |  |
| 1-02-15 0x7c172103efcbd74dd81ddb129c334efb0032119bdec00e046c5b7d489f9b6663<br>0x7078b7ds6ac5f68e68a630736a6db3933ae3984d8cc4c20c194be4c41e51b6c5<br>0xed18bbc501tc350f9652405de4fa6a420869fdfdf1a524ce8ebe858153582ba3   | 159693 19880940521<br>159693 18617005770<br>159693 17869652428   | 5 €3,788121602 one transaction per authority)  1 €4,581812246  0 €4,290522621  8 €4,118285684 Transactions for the storage of  |   |                                 |                |   |  |  |
| 4-02-15 0u7c172103efcbd74dd81ddb129c334efb0032119bdec00e046c5b7d489f8b6583<br>0x7078b7da8acc5b8e68ac30738a6db39333ac3884d8cc4c20c194be4c41e51bbc5<br>0xed19bc5071c3509f852405de4fabe420598544dfat624ce6eb58f153582ba3<br>0xc3084626713a697e2f5054277bdf7ac366be1a1984206be1a198646807f36cb488  | 159693 19880940521<br>159693 19810940521<br>159693 18617005770<br>159693 17869652428<br>159693 15762017278   | 6 e3,788121602 one transaction per authority) 1 e4,581812246 0 e4,290522621 6 e4,118285694 Transactions for the storage of the elements. 3rd action of the 5.3632556993 authorities (each of them: one   |   |                                 |                |   |  |  |
| 1-02-15 0x7c172103efcbd74dd81ddb129c334efb0032119bdec00e046c5b7d489f9b6663<br>0x7078b7ds6ac5f68e68a630736a6db3933ae3984d8cc4c20c194be4c41e51b6c5<br>0xed18bbc501tc350f9652405de4fa6a420869fdfdf1a524ce8ebe858153582ba3   | 159693 19880940521<br>159693 19810940521<br>159693 18617005770<br>159693 17869652428<br>159693 15762017278   | 5 €3,788121602 one transaction per authority)  1 €4,581812246  0 €4,290522621  8 €4,118285684 Transactions for the storage of  |   |                                 |                |   |  |  |
| -02-15 0x7c172103elsbd74d681d8b129c334e8b0032118bdec0ded48ce8y7448698b6583<br>0x707807adalecdf88ed8d830738ad603933ae388e48cc4220c1198be4c41e51bdc5<br>0xc1018bc301c35996924056e48ba203965946011a524ec8e46058535352ba3<br>0xc3c068e487313ae67e2056ea1777bd7ca733bdec1aa78e6969077c3c449f<br>Average   | 159693 19880940521<br>159693 19880940521<br>159693 18617005770<br>159693 17869952428<br>159693 18032403999   | 64,581121246 one transaction per authority)     64,581612246     64,280522821     64,1182256564 Transactions for the storage of the elements. 3rd action of the authorities (each of them: one 64,155733006 transaction per authority)   |   |                                 |                |   |  |  |
| 22-15 (0x7s172100etcbd74d811d81128c334etb0032119bdec00e446c5b744898985653<br>0x797897d846ed5986ed8839736ed8059331ae3894850c4202198ede416 et 915656<br>0xe419856270536996224656e48892009689898128e384650c4202198ede416 et 915656<br>0xe3100669745913ae477ez2656ea37776d7ca78386ec1aa796ed69977fc9c0498<br>Average 02-15 (0x38959702981ed64772ee66c8812aa44759e4deedea38eca2997784ee4e21aa4450   | 113680 23090076076<br>159693 19880940521<br>159693 18617005770<br>159693 17869652428<br>159693 15762017278<br>159693 18032403999<br>67731 14653242334  | e.3,082/10022 one transaction per authority)  1  |   |                                 |                |   |  |  |
| 02-15 Gu7t-172 (100ector/T46661648) 1369:134e80002311610dex0014465c80744866886565<br>0x70780750486626866863073586600303386388698676420011646e46x1465186656<br>dext 9186c5011-03099622466648643073648601333467864786424669656153532843<br>0xx100e462478144686464647876646477764767363666118478646656153528643<br>Average<br>02-15 Gu300570281665072666068820346465964466643866120897884646421<br>0x77862427148646-0456455396863034646960202012089716869869270726  | 113680 239600/60/6 159693 19880940521 159693 19880940521 159693 17869652428 159693 15762017278 159693 18032403999 67731 14653242334 67731 3144777044   | e.s./res/1/bitz. one transaction per authority)  64.58181286  64.206522621  64.118265664 Transactions for the storage of the 45.00522661  65.033556969 authorities but of them one of the 45.0052661  64.15750806 transaction per authority)  4. 61.432305642  4. 61.28458183  |   |                                 |                |   |  |  |
| 22-15 Ou7-172 (100-letou7 44481 dats 128:034-leth0002111800ex001ex45cc507 444891865653<br>Ou7-7078 / radias-distillacellassi 27 (844891805333aa-9844805445201-1848-let-41 (4518655<br>Our-811000507 (950)9966224055-644805208546816145262456485651535353bas   Our-81000507 (950)996624205-6448050968648167452648656551535353bas   Our-81000607 (950)996624055-644805096864810745350651 (140 7896495907 7169649664966496649664966496664966649666  | 159893 19980940521<br>159893 19980940521<br>159893 18917005770<br>159893 17898052425<br>159893 15762017278<br>159693 18032403999<br>67731 14653242334<br>67731 13144777044   | S.,769.17 toliz one transaction per authority)     46,881812246     64,2905/22871     86,411225694     71          |   |                                 |                |   |  |  |
| 02-15 Ou7-172 100-lector74-delf 1-delh 129-034-eth000311100-lect004-delf-chir/4480098-5653 Ou7-07807-delf-chir/448019-5885-5885-5885-5885-5885-5885-5885-58  | 159693 19880940521<br>159693 18817005770<br>159693 18817005770<br>159693 17869852428<br>159693 15762017278<br>159693 18032403999<br>67731 14455242334<br>67731 13144777044<br>67731 13194523863  | E.3.0811/1902 on transaction per authority)     44,30181/2246     44,30081/2247     44,10082/2247     44,10082/2247     44,10082/2247     44,10082/2247     44,10082/247         |   |                                 |                |   |  |  |
| -0.2.15 n/2-17.2103etes/r74e8191dbs112e334etb0032119b0ec00e44e5cb1744898965653<br>n/m779b746fdesc6986e586397398ed839333as9849845b0e42031948ec641744898965653<br>n/m279b747e36459864986498939738ed8495933as9849846b0e42031948e6496585535353ab<br>n/m2508646627613ae879*m25086ea9777bdf7ca75396ec1aa798ed96977fc9ch4987<br>Average -0.2.15 n/m2509776918e6972ee65e852as4cf59e4deedeas8e6as2699784ee4621aa04504<br>n/m7502714b0e4ce46ec659396ed8026ea987902010209877849899270725  | 159693 19880940521<br>159693 18817005770<br>159693 18817005770<br>159693 17869852428<br>159693 15762017278<br>159693 18032403999<br>67731 14455242334<br>67731 13144777044<br>67731 13194523863  | S.,769.17 toliz one transaction per authority)     46,881812246     64,2905/22871     86,411225694     71          |   |                                 |                |   |  |  |
| 02-15 Ou7-172 1004ebs/7464814615 129-034eb000321160bs4c004445c507448067865655 Ou7-172 1004ebs/7464815 129-034eb000321160bs4c00445c507448067865655 Ou7-172 1007-164824568468480073846480503383848460cc42007160bs4c14 16478645 Ou7-172 1007-172     | 159693 1880940521<br>159693 18817005770<br>159693 18817005770<br>159693 17606953428<br>159693 17606953428<br>159693 15762017278<br>159693 16703407399<br>67731 14653242334<br>67731 13144777044<br>67731 1319522386<br>67731 1319522386<br>67731 1319522386  | E., rest trates, con transaction per authority)     44, 2005/22621     44, 2005/22621     44, 2005/22621     44, 2005/22621     45, 2005/22621     46, 2005/22621     46, 2005/22621     46, 2005/22621     46, 2005/22621     46, 2005/22621     46, 2005/2262          |   |                                 |                |   |  |  |
| 1-02-15 0/07-ET 72 (Oxtebsod 744681 rolbs 1/20:03.4e/b00022 118/bide:c00/ox446cc507/44687866553 ox777787 /rdisal-scifillee/deals/30/738/scifilles/30/338/se/80/48/fice/c00/ox4466cc507 (44687866553) ox46186cc507 (55090624056546810500000000000000000000000000000000000   | 159892 1989094052 1<br>159993 1989094052 1<br>159993 1887005770 1<br>159993 1789965245 1<br>159993 18032403999 1<br>67731 1514777044 67373 12879595254 67731 15149770 1<br>67731 15149770 1<br>67731 15149770 1<br>67731 15149770 1<br>67731 15149770 1  | C.5.08 157.08     C.5.08       |   |                                 |                |   |  |  |
| 1-02-15 0x7+173103ebcbr74e4814bb112ex334ebb0032116bbec00e448ccf0748868686555 0x79778762ebcbr658686868077864eb00303148686865cc42021618ebc4014e186555 0x641788x5686458868680377864eb0030314868686465cc42021618ebc4014e186b50 0xc40068642071518e879ec40586e4864420498646465cc420218e89655555bba3 0xc40068642071518e879ec40586e4864420498646460478524eebe6271586505483 0xc40068642071518e879ec405864864750646686662020786660597786506477 0xc40058702814664572eebe02652844C5596466ede68662020787866697786604577 0xc40255be6133474664278666450304666505020642059746665756664934604643 0xc497026124550545404766469642186863020646505746665756664934604643 0xc497026124555846073646964218866302066505746665756664934604643 0xc4970261245578460766964941886630206650574666575666493460644 Average 0xc4006666666666666666666666666666666666  | 159890 19880940521 1598090 19880940521 1598090 1988 7005770 1598090 178809562429 1598090 17809162429 1598090 18032403999 16731 149524293 46731 1598090 18032403999 16731 149522493 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 16731 1598093999 167809 16780999999999999999999999999999999999999   | E., restributor or transaction per authority)     44, 2016/2261     44, 2016/22621     44, 2016/22621     44, 1216/2664     47, 2016/22621     44, 1216/2664     47, 2016/2664     41, 2016/4664     41, 2016/26642     4      |   |                                 |                |   |  |  |
| 1-02-15 0.07c1 T73 (10.els.bd/14.0481 rdb) 129:03.4eb00321118bde:003e346c027 64807886553 0x77797 (7.els.bc/1809e3653) 778 (40.els.bc/1809e3653) 778      | 159890 19880940521 1598090 19880940521 1598090 1988 7005770 1598090 178809562429 1598091 15980   | E., restributor or transaction per authority)     44, 2016/2261     44, 2016/22621     44, 2016/22621     44, 1216/2664     47, 2016/22621     44, 1216/2664     47, 2016/2664     41, 2016/4664     41, 2016/26642     4      |   |                                 |                |   |  |  |
| 22-15 0u7c172 (10decbot744681 data 128c134etb00321180dec00e446c50744869865653<br>0x70798764866586648843073864803933848948040c4c2011948ete441618655<br>0xe4196c50753996924656464803208486948056426262011948ete4416418655<br>0xe300be46276138e97ec28056ca17776407ca79386etc1aa796e599077650c9491<br>Averagie<br>42-15 0x300577620134et60772ce46c8852as4c7659e46eedesa86ca297846ee4e21aa04564<br>0x70726271486cc466e553966e430364ex6980200120369776460c9491<br>Averagie<br>42-15 0x30057767622144c50783440776499042188asa286620575466657-556e19346b644<br>Averagie<br>42-15 0x3025756926284747c4699042188asa2866205758164666464646464646464646464646464646464   | 159890 19880940521 1598090 19880940521 1598090 1988 7005770 1598090 178809562429 1598091 15980   | E., restributor or transaction per authority)     44, 2016/2261     44, 2016/22621     44, 2016/22621     44, 1216/2664     47, 2016/22621     44, 1216/2664     47, 2016/2664     41, 2016/4664     41, 2016/26642     4      |   |                                 |                |   |  |  |
| 20,15 Ou7c172100elebst74ee811deb122e334eh0032116beec00e448c50744886886565 Ou7c77076746esc5886e868307386e81303348e868565c42002116beec416415be5 Ou7c17076746e865868688307386e81303348e868565c4200116beec416415be5 Ou4c160686427813469162686486442086864864073634665c4200116be8c416415be5 Ou4c1606864278134691e2668648644208696486467353866620077865068778650687 Average  102.15 Ou3605702816606772ee86c6852046e66530246e6269786466677866665778606467 Ou7c76267211abe4ce46e65536666630246e666200200200200978666657 Ou3605702816460783464076666630246e66650206786667666766619846062003 Ou7676762614667834640766669630246e66530246e66766667666676661984662003 Ou767676261466783464076666960620020020020097166665766661984606403 Ou76767626146678346407666967642668676666957666695766661984666643 Ou76767626146678346407666967642668676666596666543666646464646466466666466464664  | 159890 19880940521 1598090 19880940521 1598090 1988 7005770 1598090 178809562429 1598091 15980   | E., restributor or transaction per authority)     44, 2016/2261     44, 2016/22621     44, 2016/22621     44, 1216/2664     47, 2016/22621     44, 1216/2664     47, 2016/2664     41, 2016/4664     41, 2016/26642     4      |   |                                 |                |   |  |  |
| 22-15 0x7c172103eicbxf74dd813dab123eic34eh003221198dec000e46c50x744897896553 0x707827dadac598e6686307304eidd03332aas98460c4c2620194ee464768744897896553 0x707827dadac598e6686307304eidd03332aas98460c4c2620194ee464746198650 0xx5c08be4827613ae97ec2056eea777bd7ca783b96ec1aa978ed696077bc0c4987 Average 22-15 0x3695972073d14eidd727ee460e8802aa4c559e46eedeea8ea8eea289784ee4e21aa0450d 0x77282271abbc4c58ee539866e43035deex59800201203897184e9827725 0xx52558613124-e860798344576689842198988278526957546865755669193448b64 Average 22-15 0xx5255869134467869659869613556541198287866865756669193448b64 Average 22-15 0xx525786734457666984219888827862887546865755669193448b64 Average 0xx525864131464675960569696814356544158287868685353538647485478686967428698698698698698698698698698698698698698   | 159890 19880940521 1598090 19880940521 1598090 1988 7005770 1598090 178809562429 1598091 15980   | C.5.08 157.08     C.5.08       |   |                                 |                |   |  |  |
| 20-15 Du7n:172100ecbx714d811d81129x334eh003321190bcc010e446x507448968865653 Dv77179747d845x558ec468830738ede039338as988465cx42051198ec46x146x150x50 Dvs811798747d845x558ec468830738ede039338as988465cx42051198ec46x146x150x55 Dvs81178cx5071538996524056e418e42x059864986178534528533 Dux3108e46271134897ec2656e418e42x0598649861785362e585153555333 Dux3108e46271134897ec2656e84177460738586ec18437896669077763c04987 Average  20-15 0x380054728491465453845676e685935264eex36952020784649657666491949666283 Dx67178234727486444458676659835264eex36952020784666575666619349666283 Dx67178234727486444457864698530264eex36952020784666575666619349664283 Dx67178234757865673848407669676427884666575666193449664283 Dx6717823475765845738464766676473646667566619346666530 Dx67178234757666473846476666764736666767466667666193466666363 Dx67178234757666473846477666686774673632333460746666533 Dx6717823476766625776646777664677766686777677266773676679846666533 Dx67186234767666767666767766667776666777666667676666  | 159890 19880040521 1598000 19880040521 1598000 19887005770 1598003 17889056245 1598003 15980003 1598003 15980003 15980003 15980003 15980003 15980003 15980003 15980000   | 9.5, rest/total/2 ore transaction per authority)  64, 551812246  64, 2005025251  64, 100502667  Transactions by the situage of self-incompleted for the situage of self-incompleted for self-incomplet |   |                                 |                |   |  |  |
| 22.15 (0.71-172 103e/cbu7.44681 dath 128e/334e/b0032118bde+000e/446c/807.444801865653<br>0.077978767686658678668683073786605933286868460c420201198e-64476418696555<br>0.04518056076359096282656486840206986969167362646956555555646565153585830<br>0.045006468276138e077e-28056ea37779607a783586ec18a78964590771650-0498<br>Average  | 159890 29900019716 159890 180 17005770 159890 180 17005770 159890 180 17005770 159890 180 17005770 159890 180 17005770 159890 180 180 180 180 180 180 180 180 180 18   | e.s./set/tile/2 one transaction per authority)  64.438052021  64.438052021  64.438052021  64.438052041  65.4380541  66.4380541 |   |                                 |                |   |  |  |
| 22-15 0a:7c172103actos/T46d811d81129c334eb00321180dec00ac46c50744890f865553 0b:779727403dec5698ed86815798ed8635330ae98ed86cs4c20c1948ec4614615655 0b:77972074dec5698ed86815798ed863530ae98ed86cs4c20c1948ec4614615655 0bcc195626715205975208646842420858686914524ce8885858585358530a 0bcc2068e4627613ae97ec2056e4684242085869814524ce88a978698695775490484 Average 22-15 0bc20672053465724e66069203ce8660503ce86605200712089716988982777752 0bc205235bd913a97e466079806203ce860503ce86605200712089716988982777525 0bc205235bd913a97e466079806203ce860503ce8605200712089716988982777525 0bc205235bd913a97e466079806203ce860503ce8605200712089716988982777525 0bc205235bd913a97e466079806203ce860503ce8605200712089716988982777575 0bc205235bd913a97e466079806203ce8605305656ad864262353864066483 0bc69762624746053484076468647454686476468647546665756666195466665466 0bc696650107646181350610688687776668770672178127886407786686536 0bc69665010764618135061068868777666877774871748717487138313939395365636 Average 22-15 0bc6967275755755464074686736667866743533464646474766665364666653606666536   | 159890 19880040521 1598000 19880040521 1598000 19887005770 1598003 19887005770 1598003 19887005770 1598003 19880003 19880003 19880003 19880003 198800000000000000000000000000000000000   | 9.5, rest/total/2 ore transaction per authority)  64, 531812246  64, 5308022621  7. Transactions by the sitroger of set, 102,000  64, 150730667  7. Transactions by the sitroger of set, 102,000  64, 15073060  61, 124,000  61, 1 |   |                                 |                |   |  |  |
| 22-15 (0.71-172 103e/cbu7.44681 dath 128e/334e/b0032118bde+000e/446c/8b7.448819865653<br>0/n*79787-6988e/5886-69880377.3886d039323ae.9884650c42021198e-e41446158655<br>0/n*4186-6507 (359969624056-64886)203864670428621198e-e41446158655<br>0/n*4186-6507 (359969624056-64886720864698743862466565645678646656716564987<br>Average  02-15 (0.038957970281 efc6/772-e616-68802ass-6759e-46rendesas8e-ea2897846-e4121 and-9536<br>0/n*782271 taba-0-ce46es-653966-45305-66-65964020120389778469-68277255<br>0/n*250569131-4496-6789602-67896-6866-6868-98596-6869-6878-5869-6878-4888-4888-4888-4888-4888-4888-4888   | 150800 15880040501 15170801 15170801 15170801 151708051 15170805212 15170805212 15170805212 15180801 151708017276 1508001 15180801 151808248234 67731 14287083242 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224345 67680 15288708500 67680 15288708500 67680 15288708500 67780 150887084487 67880 15288708500 67780 15088954187 650880 15288381500 6772 15508864187   | 6.5, 9611-7082 one transaction per authority) 6.4, 56119-7246 6.4, 56119-7246 6.4, 56129-7246 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 102006664 6.4, 102006664 6.4, 102006664 6.4, 102006664 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 102006667 6.4, 102006667 6.4, 102006667 6.4, 102006667 6.4, 102006667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 102006 |   |                                 |                |   |  |  |
| 20-15 Ou7-017-21 (30-deta)27 4-4981 rolds 1 (20-23-48-b)003/21 19 (30-de-000-44-66-50)2 4-4981 996-5653   Ou7/1978 or data-critise children (30-32-34-b)003/21 19 (30-de-000-44-66-50)2 4-4981 996-5653   Ou7-1978 or data-critise children (30-32-34-b)003/21 19 (30-de-000-44-66-50)2 4-4981 996-5653   Our-1978 or data-critise children (30-de-000-44-60-60)2 4-4981 996-5653 (30-de-000-46-60-60)2 4-4981 996-5653 (30-de-000-46-60-60)2 -498-66-5653 (30-de-000-46-60-60)2 -498-66-5653 (30-de-000-46-60-60)2 -498-66-562 (30-de-000-46-60-60)2 -498-662 (30-de-000-46-60)2 -498-662 (30-de-0000-46-60)2 -498-662 (30-de-000-46-60)2 -498-662 (30-de     | 150800 15880040501 15170801 15170801 15170801 151708051 15170805212 15170805212 15170805212 15180801 151708017276 1508001 15180801 151808248234 67731 14287083242 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224234 67731 15188224345 67680 15288708500 67680 15288708500 67680 15288708500 67780 150887084487 67880 15288708500 67780 15088954187 650880 15288381500 6772 15508864187   | 6.5, 9611-7082 one transaction per authority) 6.4, 56119-7246 6.4, 56119-7246 6.4, 56129-7246 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 10200664 6.4, 102006664 6.4, 102006664 6.4, 102006664 6.4, 102006664 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 1020066667 6.4, 102006667 6.4, 102006667 6.4, 102006667 6.4, 102006667 6.4, 102006667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 10200667 6.4, 102006 |   |                                 |                |   |  |  |
| 22-15 0/7c172100etcb0744681deb122e034etb0032110bdec00e446c50744809865653 0/0770787de3ed5986et6840370386de0030334a986405c42002198ete44656744809865653 0/0770787de3ed5986et6840370396640503324a986405c42002198ete44646150655 0/c4100c507709767de3ed5986et68403703866405032864056462002198ete44616150655 0/c4100c5070756976696540766666769846eedea886ec02997846ee4621aa045640 0/077820271ab4cc46466553966e403036eedea886ec02997846ee4621aa045640 0/077820271ab4cc46466553966e403036eedea886ec02997846ee4621aa045640 0/077820271ab4cc4646653966e403036eedea886ec02997846ee4621aa045640 0/07280207503647464678690647958646786964698786666537656661934696640 0/07280205037644746467860064796564674566665457656661934696640 0/07280205036666467466666696787666667465666668667656666966966696669666966966666966669   | 159800 198800405071 159800 198800440521 1598000 198800440521 1598000 198800440521 1598000 19880040521 1598000 19880040040 19880040 19880040 19880040 19880040 19880040 19880040 1988004   | 6.5, 981-17802 one transaction per authority)  6.4, 5818-12246  6.4, 3000202017  6.4, 10200604  6.5, 3000606  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060000  6.6, 10200600000  6.6, 102006000000000000000000000000000000000  |   |                                 |                |   |  |  |
| 20-15 Ou7-017-21 (30-deta)27 4-4981 rolds 1 (20-23-48-b)003/21 19 (30-de-000-44-66-50)2 4-4981 996-5653   Ou7/1978 or data-critise children (30-32-34-b)003/21 19 (30-de-000-44-66-50)2 4-4981 996-5653   Ou7-1978 or data-critise children (30-32-34-b)003/21 19 (30-de-000-44-66-50)2 4-4981 996-5653   Our-1978 or data-critise children (30-de-000-44-60-60)2 4-4981 996-5653 (30-de-000-46-60-60)2 4-4981 996-5653 (30-de-000-46-60-60)2 -498-66-5653 (30-de-000-46-60-60)2 -498-66-5653 (30-de-000-46-60-60)2 -498-66-562 (30-de-000-46-60-60)2 -498-662 (30-de-000-46-60)2 -498-662 (30-de-0000-46-60)2 -498-662 (30-de-000-46-60)2 -498-662 (30-de     | 159800 198800405071 159800 198800440521 1598000 198800440521 1598000 198800440521 1598000 19880040521 1598000 19880040040 19880040 19880040 19880040 19880040 19880040 19880040 1988004   | 9.5, rest/total/2 ore transaction per authority)  64, 531812246  64, 5308022621  7. Transactions by the sitroger of set, 102,000  64, 150730667  7. Transactions by the sitroger of set, 102,000  64, 15073060  61, 124,000  61, 1 |   |                                 |                |   |  |  |
| 22-15 0/7c172100etcb0744681deb122e034etb0032110bdec00e446c50744809865653 0/0770787de3ed5986et6840370386de0030334a986405c42002198ete44656744809865653 0/0770787de3ed5986et6840370396640503324a986405c42002198ete44646150655 0/c4100c507709767de3ed5986et68403703866405032864056462002198ete44616150655 0/c4100c5070756976696540766666769846eedea886ec02997846ee4621aa045640 0/077820271ab4cc46466553966e403036eedea886ec02997846ee4621aa045640 0/077820271ab4cc46466553966e403036eedea886ec02997846ee4621aa045640 0/077820271ab4cc4646653966e403036eedea886ec02997846ee4621aa045640 0/07280207503647464678690647958646786964698786666537656661934696640 0/07280205037644746467860064796564674566665457656661934696640 0/07280205036666467466666696787666667465666668667656666966966696669666966966666966669   | 159800 198800405071 159800 198800440521 1598000 198800440521 1598000 198800440521 1598000 19880040521 1598000 19880040040 19880040 19880040 19880040 19880040 19880040 19880040 1988004   | 6.5, 981-17802 one transaction per authority)  6.4, 5818-12246  6.4, 3000202017  6.4, 10200604  6.5, 3000606  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060000  6.6, 10200600000  6.6, 102006000000000000000000000000000000000  |   |                                 |                |   |  |  |
| 1-02-15 (A/PCT721034ebcd744d511db1126c334ebc002211fbdec00244d502f724d58f986555<br>- (A/PT721034bcd62f586e686307738d6350338389546bc4262f51184ebc4164615865<br>- (Averinge - (Averin | 159890 298000107810781 159890 198800480521 159890 1987005770 159890 19870017278 159890 19870017278 159890 19870017278 159890 19870017278 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 13480534234 157731 13480534234 157731 13480534234 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 1362818588 157880 1362818588 157880 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 136281888 158980 13628888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 13628888 158980 13628888 158980 13628888 158980 13628888 158980 136288888 158980 136288888 158980 1362888888888888888888888888888888888888  | 6.5, 981-17802 one transaction per authority)  6.4, 5818-12246  6.4, 3000202017  6.4, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 102006 |   |                                 |                |   |  |  |
| 1-02-15 on/1-172 (Colestand*1-46481 data 1-12e:034-eth00022118) index-001e/44e:02/17-464981965655 on/17-172 (Colestand*1-46481 data 1-12e:034-eth00022118) index-001e/44e:02/17-464981965655 on/17-172-17-4648196565550 on-17-17-464919656550 on-17-17-46491965650 on-17-17-464919656565656565656565656565656565665656   | 159890 298000107810781 159890 198800480521 159890 1987005770 159890 19870017278 159890 19870017278 159890 19870017278 159890 19870017278 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 13480534234 157731 13480534234 157731 13480534234 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 1362818588 157880 1362818588 157880 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 136281888 158980 13628888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 13628888 158980 13628888 158980 13628888 158980 13628888 158980 136288888 158980 136288888 158980 1362888888888888888888888888888888888888  | 6.5, 981-17802 one transaction per authority)  6.4, 5818-12246  6.4, 3000202017  6.4, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 102006 |   |                                 |                |   |  |  |
| 20.15 On 7c1 72 (10 ectos) 7 44081 (dath 128c) 34 ectos) 21 (18 obes-colore) 48 ectos) 7 44081986 (655) On 7c1 72 (10 ectos) 74 4081986 (655) On 7c1 72 (10 ectos) 7 70 7c4 68 ectos) 7 70 8 ectos 7 70 7c4  | 159890 298000107810781 159890 198800480521 159890 1987005770 159890 19870017278 159890 19870017278 159890 19870017278 159890 19870017278 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 13480534234 157731 13480534234 157731 13480534234 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 1362818588 157880 1362818588 157880 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 136281888 158980 13628888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 13628888 158980 13628888 158980 13628888 158980 13628888 158980 136288888 158980 136288888 158980 1362888888888888888888888888888888888888  | 6.5, 981-17802 one transaction per authority)  6.4, 5818-12246  6.4, 3000202017  6.4, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 10200604  6.5, 300070007  7.1, 102006 |   |                                 |                |   |  |  |
| 1-02-15 00/1-1772 (Colesticad 74-0451 dath 128:034-feb000221118/dex-0016-148-c587-0445878805655 0x707770 (Fordisal-disfile/desistad) 74-0451 dath 128:034-feb00022118/dex-0016-148-c587-0445878805655 0x70770 (Fordisal-disfile/desistad) 74-0451805000000000000000000000000000000000  | 159890 298000107810781 159890 198800480521 159890 1987005770 159890 19870017278 159890 19870017278 159890 19870017278 159890 19870017278 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 134805342234 157731 13480534234 157731 13480534234 157731 13480534234 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 13628185588 157880 1362818588 157880 1362818588 157880 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 1362818588 158980 136281888 158980 13628888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 1362888 158980 13628888 158980 13628888 158980 13628888 158980 13628888 158980 136288888 158980 136288888 158980 1362888888888888888888888888888888888888  | 6.5, 981-17802 one transaction per authority)  6.4, 5818-12246  6.4, 3000202017  6.4, 10200604  6.5, 3000606  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 10200604  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060600  6.6, 1020060000  6.6, 10200600000  6.6, 102006000000000000000000000000000000000  |   |                                 |                |   |  |  |
| 13-02-15. 0x7172100acteb27446810b128c334etb0032119bacc00e048c58774880f886563 0x777878748ac6688e86830738a6c38338a59848c0-4202194be4c414c5194867886563 0x77788746ac6688e8630738a6c38338a59848c0-4202194be4c414c519bc5 0x45186c41736596962506468430738a6c3838a598488c0-4202194be4c414c519bc5 0x451864627813be6c7e228056ca777bd7ca763b6cs1aa786efds9077fc6c488 0x4508e4827813be6c46c865396e633034ces698200102097184ee4621aa04504 0x77826271ab6c4c6e665396e633034ces698200102097189869277725 0x455354913a74e964679676e796958e6033034ces698200102097189869277725 0x455354913a74e964679676e796958e6033034ces698200102097189869277725 0x455354913a74e964679676e796958e6033034ces69820010209718989277725 0x455354913a74e964679676e79658e6033034ces698200102097189869277725 0x455354913a74e964679676e79658e6033034ces69820010209758966267656651934eb64 0x46796604676676667667666766766676667666766676  | 159890 29800019710 159890 18980040521 1598900 19880040521 1598900 1987005770 1598903 17898050128 159890 19720117278 1598903 17898050128 159890 197371 15980534239 157731 13480534234 157731 13480534234 157731 13480534234 157731 13480534234 157731 1348053428 157731 1348053428 157731 1348053428 157880 1578   | 6.5, 961-17092 one transaction per authority)  6.4, 501912246  6.4, 500022627  6.4, 10200664  6.4, 10200664  6.5, 302006695  6.4, 10200664  6.5, 302006695  6.4, 10200669  6.5, 302006695  6.5 |   |                                 |                |   |  |  |
| 1-02-15 0x7e1772103edexbd74-04811dbt1128c334etb003211fildexb00e44ec6b7-04889f886565 0x7779767d864656966686307786460195033488968460c42021188e4e41641619655 0xe119620779767d86455966863037886460195033488986460c42021188e4e41641619655 0xe1919620779767d864596865978640950334886460642021188e464164196450 0xe19782077185640569627775967774077c378396ec1sa37864590777690497 Average 1-02-15 0x38056770281e6c972xe60xe8012xa84c4596446xedexa8a84cca2997844ee4e21sa044504 0x777232271sa04ccs60xe50539664300xeex080xe00xe00xe00xe00xe00xe077864077222 0xxe2550xe019474647679686xe00xe00xe00xe00xe00xe00xe00xe00xe00xe0   | 159890 298000107810791<br>159890 19807005770<br>159890 19807005770<br>159890 198070017278<br>159890 1970017278<br>159890 1970017278<br>15773 1946902403<br>15773 134685240234<br>15773 13468520840<br>15773 13468520840<br>15773 13468520840<br>15773 13468520840<br>15773 13468520840<br>15773 13468520840<br>15788 1362819588<br>15788 1362819588<br>15788 1362819588<br>15788 1560854187<br>15772 1560854187<br>1560854187<br>1560854187<br>15772 1560854187<br>15772 1560854187<br>1 | C. Sel 1912 of transaction be the storage of examinating the control of the cont  |   |                                 |                |   |  |  |
| 13-02-15. 0x7172100acteb27446810b128c334etb0032119bacc00e048c58774880f886563 0x777878748ac6688e86830738a6c38338a59848c0-4202194be4c414c5194867886563 0x77788746ac6688e8630738a6c38338a59848c0-4202194be4c414c519bc5 0x45186c41736596962506468430738a6c3838a598488c0-4202194be4c414c519bc5 0x451864627813be6c7e228056ca777bd7ca763b6cs1aa786efds9077fc6c488 0x4508e4827813be6c46c865396e633034ces698200102097184ee4621aa04504 0x77826271ab6c4c6e665396e633034ces698200102097189869277725 0x455354913a74e964679676e796958e6033034ces698200102097189869277725 0x455354913a74e964679676e796958e6033034ces698200102097189869277725 0x455354913a74e964679676e796958e6033034ces69820010209718989277725 0x455354913a74e964679676e79658e6033034ces698200102097189869277725 0x455354913a74e964679676e79658e6033034ces69820010209758966267656651934eb64 0x46796604676676667667666766766676667666766676  | 159890 29800019810 1159800 198800440521 1598000 198800440521 1598000 198800440521 1598000 198800440521 1598005 1988005   | C. 4.581812266     C. 4.501812266     C. 4.501812266     C. 4.501812266     C. 4.50182664     C. 5.5018266           |   |                                 |                |   |  |  |
| 23 0.2-1.5 0a.7127/1004cfebd7440811dbb1280334etb00032119bdec00e0446c5b74489f8eb650 0x778874alaccf88eb68s030738alacb39338as98e48c0-cc20c1944eb68eb655 0xe1788bc76c155996522054bc8ab20738alacb39338as98e48c0-cc20c194be46414651bc6 0xe1818bc61c155996522054bc8ab20598648etb32068eb68153552ba3 0xc306e4827813ae97ec2856ce3777bd7ca763b6ec1aa758ed659577k59cb498 Average 23 02-15 0x3805b70281e6c972ee6ce8b23a4c45964deedeaa8eca269784ee4e21aa045bd 0x7782a2721abb4cc46ce8fd5396ec4303c4eca6982001026997189869277252 0xc355345313a74e4b6779605ec969553ec864920201026997189869277252 0xc355345313a74e4b6779605ec969553ec8649207253e3424435536b04c383 0x6978a22144c5607834bc17c6d9fb21898aax2f862d675408c657c56d61934eb64 Average 23 02-15 0x30278526628478e1046048bc813564411928780uad278818addac4e1e1aab651c4 0x862b017061e167196bc819608627784572780uad278818addac4e1e1aab651c4 0x862b017061e167196bc81960862778457250uad278818addac4e1e1aab651c4 0x862b017061e167196bc8196086277847572645866243538a34446060717e1a6104617466146664646466464666666666666666  | 159890 29800019810 1159800 198800440521 1598000 198800440521 1598000 198800440521 1598000 198800440521 1598005 1988005   | 6.5, 961-17092 one transaction per authority)  6.4, 501912246  6.4, 5000226727  6.4, 10002664  6.4, 10002664  6.4, 10002664  6.4, 10002664  6.5, 10002664  6.5, 10002664  6.5, 10002664  6.5, 10002664  6.5, 10002664  6.5, 10002664  6.5, 10002664  6.5, 10002665  6.5, 10002665  6.5, 10002665  6.5, 10002667  6.5, 1000267  6.5, 10002667  6.5, 10002667  6.5, 10002667  6.5, 10002667  6. |   |                                 |                |   |  |  |
| 3-02-15 0-71-721/30sehod/74-068110b1128c334eh0032118b1dec00sel46c527-04869866565 0-7077987-daskadc586e688303738adeb353338-3984840c4c2051184ee41461618655 0-red 178cc67150696624056esheidex009686486cs42051184ee41461818655 0-red 178cc67150696624056esheidex009686486618246e866858553852838 0-red 178cc67150696624056esheidex009686486618246esheidex68486cs28697864ee48271846948 Average 3-02-15 0-030607570281 etic5772ee61ce88122as4cf59es4dexdexas86cs2897864ee482718ad94594 0-707626727 is habboo-folker0653966es430046ess69896cs28097864ee482718ad94594 0-707626727 is habboo-folker0653966es430046ess6978620013069977630986977025 0-red 2555491 is 374-644570968c98668es68ce3866956es464656ss66464678698640464 Average 3-02-15 0-0309675765669471461646747446846744986677468646574566495436464644646446464646464646464646464646  | 159890 25980001918   159800 15980040521   1598000 15980040521   1598000 15980040521   1598000 15980050050 15980050 15980050 15980050 15980050 15980050 15980050 15980050050 15980050050 15980050050 15980050050 15980050050 15980050050 15980050 15980050 15980050 15980050 15980050 15980050 15980   | 64, 561912460 64, 36092261 64, 360926267 64, 36092667 64, 360966867 64, 360966867 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 3609687 64, 3 |   |                                 |                |   |  |  |
| 1-02-15 On/1-17 21 (Colestand 74-6481 rdats 1-28-23-84-bit 00022 11 Bit des-00/e4-8-c-827-64881986-5653 on/17-79 Cradia-scriffere-Bissa 507-98-6480-500-503-848-650-620-18-64-64-64-61 Bit 06-50-6481 Bit 06-50-648-62-648-650     | 159890 25980001918   159800 15980040521   1598000 15980040521   1598000 15980040521   1598000 15980050050 15980050 15980050 15980050 15980050 15980050 15980050 15980050050 15980050050 15980050050 15980050050 15980050050 15980050050 15980050 15980050 15980050 15980050 15980050 15980050 15980   | 64, 561912460 64, 36092261 64, 360926267 64, 36092667 64, 360966867 64, 360966867 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 36096687 64, 3609687 64, 3 |   |                                 |                |   |  |  |
| 23 02-15 0.n/107100erbot/74081108b108b128c334eb0002119bdec00e0446c587r4889f886565 0x777887rdsac65f8e8688303738a6d305338x39848c0-020c140c46c587r4889f886565 0xe17886c76c5559662505646sia320738a6d305338x39848c0-020c140c46c146f196c5 0xe18186c76c5559662505646sia22662868398648c0-020c140c46c46c146f196c5 0xe18186c76c555962626d6e8a5206368sia2268646e6a8a86ec269778e6e46421aa04550 0xe1826c6572e86c6872e86c853966ec9303c6ece690200102097198989270725 0xe18255056728e16c66732ee6c853966ec9303c6ece690200102097198989270725 0xe1825505673a4bc4c6c86d53966ec9303c6ece690200102097198989270725 0xe1825505673a4bc476d596062303c6ece690200102097198989270725 0xe18255056762c214ebc4c978384bd7c6d9f042189aaax69620675406c957c56c51934bbd4 Average 23 02-15 0x6057626274e16c97384bd7c6d9f042189aaax6962067545132635356541286bd64 0x66e5051066ce16d1956ce164756ce1646966276c637262453233a454426061746b6456643066656436665656666666666666666666  | 159890 25980001918   159800 15980040521   1598000 15980040521   1598000 15980040521   1598000 15980040521   1598000 1598005 15   | C. 4.581812266     C. 4.501812266     C. 4.501812266     C. 4.501812266     C. 4.501812266     C. 4.501812664     C. 5.501812664     C. 5.50181266     C. 5.5018      |   |                                 |                |   |  |  |

| 2023-02-15 0xc3b1450241f1f6d9eb31bd274dce0d438ea89d429658048cd7c6eab21d81795f   | 21832 35360068693 €1,114092128<br>22056 32427825644 €1,032188617 Transactions for passing the key<br>Pair of transactions: key request   |  |  |          |  |  |
|---|--|--|--|----------|--|--|
| 0xf247d61f4d89dbf0ca4c77359e70900c997693e22e0a33e1a54f05877ab58f94  | 22056 32427825644 €1.032188617 Transactions for passing the key  |  |  |          |  |  |
| Average   | 21944 33893947169 €1,073377348 key on block. 4th auth  |  |  |          |  |  |
| Avelage   | 21544 33653547105 €1,073377346 Rey 011 010CK. 401 addit  |  |  |          |  |  |
|   |  |  |  |          |  |  |
|   |  |  |  |          |  |  |
| 2023-02-16 transaction hash   | gasUsed (unit) gasPrice (wei) contract address   | Final cost ETH                             | Final cost €                                     |          |  |  |
| 0xdae298a5560cc83c3ee95f9362dd899cb6ebdeddc84bc160979739ce37672d27  | 1692477 2646800729 0x33d3E46E370312ed90204D06135e2DC75BA7  | Filial Cost E111                           | €7,04993776922015000000                          |          |  |  |
| 0x0ae256a0000cc63c3ee501530200655c00e00c040c100575735ce37072027   | 1092477 2040800729 0X33G3E40E37G312EG90204D0013JE2DC73BA7  | E 0,004478048307410730                     | €7,04993770922013000000                          |          |  |  |
| 2023-02-16 transaction hash   | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)  | Final cost ETH                             | Final cost €                                     |          |  |  |
| 0x625b8961fd648599c808950203ef7b0d15a9b15edc69da404e9b27d42fb14f4c  | 1692477 2161063399 0x463AD822C2Eda91e0f8563Ad55f0A8C98bAD  | 0.40 C 0.0005777700000 40000               | € 5,75614261827921000000                         |          |  |  |
| 0x0230690110046399C606930203617000138901360C090840469027042101414C  | 1092477 2 10 1003399 0X403AD622C2E089 16018003A00310A0C900AD1  | 000 € 0,003007330096348320                 | € 5,75614261627521000000                         |          |  |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price  | ETHIELID 16 feb 2022 (adi along pourse) bi | tps://finance.yahoo.com/quote/ETH-EUR/history/   | 40       |  |  |
| 2023-02-16 0xb931204e9b9256ba13bb8f1484c4e0046f3cbf6c97a5eb9dcfa359031ef55314   | 67153 2255587773 €0,238378133 Transactions for storing public  | £1.573,77                                  | ups.//imance.yarioo.com/quote/E114-E010/iistury/ | <u>a</u> |  |  |
| 0x186e20408f3d444527b8dd14193f1d2a9e5e6c4fc856cf4a23fa20f03d2b89bf  | 67103 2200067773 E0,236376133 Transactions for storing public  | 61.373,77                                  |  |          |  |  |
| 0x5a4913f8953eb818633da8f0c6ac9162cd45ea8b035159337d9c0e1548051f48  | 67153 2322534101 €0,245453247 key readers (actors). One for 67153 2147345140 €0,226938688 est of the users (manufacturer supplier).  |  |  |          |  |  |
| Average   | 67153 2241822338 €0,236923355 key_on_block   |  |  |          |  |  |
| Avelage   | 07103 2241022330 E0,230923330 REY_UII_BIOCK  |  |  |          |  |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price  |  |  |          |  |  |
| 2023-02-16 0x3bd2769fec113dbbaedb49e7201ad9200bf384a780fe953195b62607656e1f77   | gasused (unit) gasi-rice (well) ETH price<br>67153 2657530211 €0.280856767   |  |  |          |  |  |
| 0x5efd8dd9f0217938a867208a7d30e8c2507bdd5027bf19111f7c1c5d79efd119  | 67153 2994522596 €0.316471260 Transactions for storing public  |  |  |          |  |  |
| 0x632d447370f1093772053e65928c80e13ec187b938071a885e9b1dc2bd86116a  |  |  |  |          |  |  |
| 0x03204473701093772053e05920080e13e016709380718665e901d0200661168<br>Average  | 67153 2872577315 €0,303583671 supplier1, supplier2) main   |  |  |          |  |  |
| Average   | 67153 2672577315 €0,303563671 supplier1, supplier2) main   |  |  |          |  |  |
| 2023-02-16 0xe513f42f38383720310cc71a325b26948a409224f0243566d338c537a673793a   | 67533 2061097965 €0.219056397  |  |  |          |  |  |
| 2023-02-16 0xe513f42f38383/20310cc/183256269488409224f0243566d338c53/86/3/938<br>0xf87ff827532a9db2e0bdaddd7c99cde4f3e0070324fcee77503e458785o47c32 | 67533 2061097965 €0,219056397<br>67533 1799686590 €0.191273227   |  |  |          |  |  |
| 0x85/182753289052e0b0a0d07c99c0e4f3e0070324ficee77503e458785c47c32<br>0x8519addddee52eaad0c8a787e13afc6dfachaf40149f22124e1c89848d5474a1            | 67533 1799686590 €0,1912/3227<br>67533 1893034932 €0.201194421   |  |  |          |  |  |
| 0xfc0695da9651aa05972876c39ae309be8c73edad9fc12cd7e964ca0a3c5b7860  | 07500 4000050074 50 470400077  |  |  |          |  |  |
| 0x017b42ec62108e8277c286352245c772c8c5a3a0543d0ded0168c64a6e795781  | 87533 1550183501 60 185712220 Transactions for the storage of  |  |  |          |  |  |
| UXU1704260210866277C266352240C772C6C5838U5430U060U166C64866795761 Average   | 67533 1559183501 €0,165712220 the user's attributes. Action 1 of 67533 1787192412 €0,189945328 the MARTSIA approach  |  |  |          |  |  |
| линиус  | 57500 1767102412 CO, 105940020 BIE BURK 1 SIK APPROACH   |  |  |          |  |  |
| 2023-02-16 0xe2eb492f5b285c1430189f5a27132cfe54654f971ce7910a26cf89855227cbd6   | 67755 1342279043 €0,143128270  |  |  |          |  |  |
| 0xa8a32cf57ef2ccf1460de97c079ab4a6d2f1bc050cea3016bd39b931033b2756  | 67755 1409502732 €0,150296385  |  |  |          |  |  |
| 0x70de5ff43aded5858e15408d1e01a580a0e8476a711f12281d78d353a8ec01b2  | cases approximately to approximate Transactions for the storage of   |  |  |          |  |  |
| 0x8947b0086b462f760a99a6b025124339bc4c7753d5fb5a1e259f51ef0b49b4a6  | 67755 1308390265 €0,139514683 of the authorities (each of them:  |  |  |          |  |  |
| 0x694760060046217608998660251243390C4C775305058162591516105490486 Average   | 67755 1344578483 €0,143373461 one transaction per authority)   |  |  |          |  |  |
| Arctuge   | 07700 104070400 CO,140070401 Oile Ballaceon per adminity)  |  |  |          |  |  |
| 2023-02-16 0xf44ff2ed18c983d975f06795f646c3ff0200356aaa1c450d3e99be04c2e90df7   | 113680 1173344924 €0,209918651   |  |  |          |  |  |
| 0x65f7e6b1f952ca77f661d8101151d3eae4f004fa0111016a448f1be9b10dabc0  | 113680 1356477418 €0,242682184   |  |  |          |  |  |
| 0x93e2abfc8215d2d8a859ee9ae1425c51554fcf591603383bf1d7a4524a526511  | 113890 139011077 co poppoppo Transactions for the storage of   |  |  |          |  |  |
| 0xc582b98a264e2c9e59089fc9a451598c2a82c428ee01b3a34ac8cd48c6de5cc7  | 113680 1,39011077 €0,00000000 Transactions for the storage of the hashed elements. 2nd action of the authorities (each of them:  |  |  |          |  |  |
| Average   | 13680 971450027.6 €0.173798407 one transaction per authority)  |  |  |          |  |  |
| Average   | 113060 871430027,0 E0,173780407 Gile transaction per additionty)   |  |  |          |  |  |
| 2023-02-16 0xf8931001173dri4ff9r00433f8h7a289c4f9a8c3c3564c54fcd997ff06f8f3h11  | 159693 1269343625 FD 319011507   |  |  |          |  |  |
| 0x0999ch89983f60359413h2eh3f84fa070f9f597f507hb2cc57dc15c0c37ae349  | 159693 1290148763 €0,319011307   |  |  |          |  |  |
| 0x22b2f38c755168d46a73cf77bec24671bc97c1becd6264f0241ecc93af09d316  | 159693 1386143261 €0,348365597 Transactions for the storage of   |  |  |          |  |  |
| 0x91278cf3fd1ec7d417736f1470b87f3f80f832d0e8a1c6d11216e912a1818312  | 159693 1295675244 €0,325629170 the elements. 3rd action of the authorities (each of them: one  |  |  |          |  |  |
| Average   | 159693 1310327723 €0,329311632 transaction per authority)  |  |  |          |  |  |
| Average   | 109090 1010027720 E0,029011002 Wallsaction per authority)  |  |  |          |  |  |
| 2023-02-16 0x2388828111a8e172349f2564cb617e957e446e945026c9fc4cc634a52223edc6   | 67731 1315137378 €0.140184459  |  |  |          |  |  |
| 0x50371c5f85649800fd9b8ae55d817c4139b3d4cd2f54bf1b24401bc97be149cd  | 67731 2174295150 €0.231764677  |  |  |          |  |  |
| 0xcb9c4d79e081ef201d6ed6046ba99913f3fc8443822c17afb4a2d7af8995804c  | carros concorato so corrospas Transactions for the storage of  |  |  |          |  |  |
| 0x44365a2d7938d14c1e56932d0990b1b4deddecfa37a3dff69ad15d988c8b86f3  | 67731 2229937046 e0,2276957 is the public parameters. 4th action of the authorities (each of them: 67731 1947768505 €0,207618519 one transaction per authority)  |  |  |          |  |  |
| Average   | 67731 1947768505 60 207618519 one transaction per authority)   |  |  |          |  |  |
|   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  |  |  |          |  |  |
| 2023-02-16 0x2ae9162bb29bfdce882d3b0218dda3171af345d5f21d395c82be3bcd8b7fa103   | 67688 3491541822 €0,371937693  |  |  |          |  |  |
| 0x07f3f3ff3350b6c05bc0013cc6608b26656cdb96489b24f4a22b67e942de6265  | 67688 3935948092 €0.419278224  |  |  |          |  |  |
| 0x89ecf68fe719f54f3e26d3920357fb457bcee869428d063d8991d123d27d1e45  | 67688 3614443086 €0 385029792 Transactions for the storage of  |  |  |          |  |  |
| 0xcc332f9785be53105af14981eeeb30f62fb2530067c4946740777fcbd6249fe0  | 67688 3614443086 €0,385023792 Transactions for the storage of the public keys. 5th action of the 67688 3602307912 €0,383737089 authorities (each of them: one 67688 3661060228 €0,389995699 transaction per authority)                           |  |  |          |  |  |
| Average   | 67688 3661060228 €0.389995699 transaction per authority)   |  |  |          |  |  |
|   | ,  |  |  |          |  |  |
| 2023-02-16 0x7184c4c2a326d5eafeaead05d46f189ff03139ff12334aeab98000c3c6694ad7   | 89772 2912518874 €0,411482086  |  |  |          |  |  |
| 0xd6147abf17138a2d826d73c1bbb269738b628af3ea6804e0d8aeadc0d5196352  |  |  |  |          |  |  |
| 0x7ff0a5e424efc28ecd28276fd4af09a339e8e61b383ac99d87c1e7ac4c50e4ae  | 80772 2677830117 60 378325125  |  |  |          |  |  |
| 0x7f10e3cbb85a237947416159664698a3bed027f269b378799e6a115d86443e3c  | 89772 2518831660 €0,355861747 Transactions for the storage of 89772 3724259098 €0,526165115 the IPFS link, Action 2.4 of the   |  |  |          |  |  |
| 0xbc859606d85193e14035c5173170d59ec9cfba34d11f38ba816f588d15067666  | 89772 3724259098 €0,526165115 Transactions for the storage of  |  |  |          |  |  |
| Average   | 89772 2961942982 €0,418464727 MARTSIA approach   |  |  |          |  |  |
|   |  |  |  |          |  |  |
| 2023-02-16 0x50241f38759613b172cfc13e9d954316b4a188b180e0d24827b5c385e90ad357   | 21832 4216235758 €0,144863733 Transactions for passing the key 22056 3567126043 €0,123818766 Pair of transactions; key request 23044 280489000 €0,123818766 Pair of transactions; key request 23044 280489000 €0,123818766 Pair of transactions. |  |  |          |  |  |
| 0x57cf6006787d5b782349ce094c67f30709078af2eb992a2db45563bedef12ea5  | 22056 3567126043 €0,123818766 Pair of transactions: key request  |  |  |          |  |  |
| Average   | 21944 3891680901 €0,134398456 key on block. 1st auth   |  |  |          |  |  |
|   |  |  |  |          |  |  |
| 2023-02-16 0x432475ea178a01df357b6239095b91bbf54cb421ccbfde7ba3c191d7e32ba12c   | 21832 19503857325 €0,670124192 Transactions for passing the key Pair of transactions: key request  |  |  |          |  |  |
| 0x459cd7f422ec97f16755c5a0c0802aad086c7112c2995f73de4f9f10f129137d  | Z2056 18414915464 €0,639201440 Pair of transactions: key request   |  |  |          |  |  |
| Average   | 21944 18959386395 €0,654758786 key on block. 2nd auth  |  |  |          |  |  |
| 0000 00 40 0 4754040400 004400 004400 004400  | 04000 40440000400 50.05  |  |  |          |  |  |
| 2023-02-16 0xf75d610d66ca981ff22c231ab6c9b12a5450afaa54ac3ac529d5e3226e4210ce<br>0x0578a48d499805b570a6d7092b867d1447f5ca19577fd83a4b15de088fe5e9a2 | 21832 18413280486 €0,632653556 Transactions for passing the key  |  |  |          |  |  |
| 0x0578a48d499805b570a6d7092b867d1447f5ca19577fd83a4b15de088fe5e9a2<br>Average   | 2056 15654911038 €0,543398730 Transactions for passing the key Pair of transactions: key request \$21944\$ 17034095762 €0,588269242 key on block. 3rd auth   |  |  |          |  |  |
| Average   | 210949 17034095762 EU,566269242 Key on block. 3fd Buth   |  |  |          |  |  |
| 2023-02-16 0x359637f80e044a99f650f7e747973828cbb1bc1d7cdcd409491b77a215ddfe62   | 21832 16632493548 €0,571468305   |  |  |          |  |  |
| 2023-02-16 0x359637f80e044a99f650f7e747973828cbb1bc1d7cdcd409491b77a215ddfe62<br>0xdbc0fc263a7302bb4307c8a1a132d5b30cc72fc680030a2d2ce286e814faeb97 | 2006 13790034403 60 479455130 Transactions for passing the key   |  |  |          |  |  |
| Uxdbc0tc263a/302bb4307c8a1a132dbb30cc72tc880030a2d2ce28be814faeb97 Average  | 2056 13783934493 €0,478455130 Transactions for passing the key<br>Pair of transactions: key request<br>21944 15208214021 €0,525212765 key on block. 4th auth   |  |  |          |  |  |
| Average   | 21944 10200214021 EU,025212765 Key on block. 4th auth  |  |  |          |  |  |
|   |  |  |  |          |  |  |
|   |  |  |  |          |  |  |
| 2022 02 17 transportion health  | gasUsed (unit) gasPrice (wei) contract address   | Final cost ETH                             | Final cost €                                     |          |  |  |
| 2023-02-17 transaction hash 0x0a2ed6b29a22b0fc7be7d970faf8fd7237412b4e0d80c48f88400f97449cbfca  | gasUsed (unit) gasPrice (wei) contract address<br>1692477 10427400448 0xe39A7274e7aF12bC96F59b6c8B740DfDD5879  |  | Final cost €<br>€ 27,60574288058670000000        |          |  |  |
| uxuazedobzeazzburcriberideriust8td/23/412b4e0d80c48t8840uf97449cbfca  | 1092477 10427400446 0XE39A7274678F1ZbC96F59b6c8B740DfDD587   | E U,U1/648135428029600                     | € 27,0057428805867000000                         |          |  |  |
| 2023-02-17 transaction hash   | gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)  | Final cost ETH                             | Final cost €                                     |          |  |  |
| 2023-02-17 transaction hash<br>0x01208e050f7315d1f8505497aed3821ddfb5cc9f5a6a8a5cd20144e37089e03d   | gasUsed (unit) gasPrice (wei) contract address for main (public keys)<br>1692477 12275110688 0x61EDEb1AaF9de9dD884355EDa124DbB91BC   |  | Final cost €<br>€ 32.49741401738010000000        |          |  |  |
| 0x0120080001731001100004978803621001000091380868500201446370898030  | 1092477 12270110000 UX01EDED IABP90090D004355ED8124D6B91BC   | 39009 € U,U2U//33425118941UU               | C 32,40741401730010000000                        |          |  |  |
| Test date Transaction hash  | gasUsed (unit) gasPrice (wei) ETH price  | ETH/ELID 17 (ab 2022 /odi aboo or          | tos://finance.vahoo.com/guote/ETH-EUR/history/   | 10       |  |  |
| 2023-02-17 0x1e40f3854724f2eb21bd2cb9c696fa284d252d9bf333a218a030fa31cd29f36b   |  | £1.564.23                                  |  |          |  |  |
| 2023-02-17 0x1640136547241260210020090090182640252090133382168030183100291300 0x03222b463b0dbbdd5fe9a9d2dfb63f8e8144ddc4acaf9b3f3804d8ba9c3e01597   | 67153 8942945016 €0,939391423 Transactions for storing public 67153 8703045754 €0,914191748 key readers (actors). One for  | C1.309j23                                  |  |          |  |  |
| 0x03222b4e300dbdd5fe9d9d2dfbd3fe66144ddd4aCaf9d3f3604dbd9d5e01597<br>0x8e65d31e54b623901ef59da515a8355292ea2cf4b8c6e814088bdef13738eedb             | 67153 8410055642 €0,883415265 sech of the users (manufacturer supplier1, supplier2)  |  |  |          |  |  |
| 0.0000000 Technologou Telopado Todoppos parascumpoco e 1400000 e 137 306600   | 57.55 6410050042 E0,003410200 supplier1, supplier2)  |  |  |          |  |  |
|   |  |  |  |          |  |  |

|  | оператог г, оператога у  |  |  |     |  |  |
|--|--|--|--|-----|--|--|
| Average  | 67153 8685348804 €0,912332812 key_on_block   |  |  |     |  |  |
| date Transaction hash  |  |  |  |     |  |  |
| te Transaction hash g<br>2-17 0xc7bf20d6ca52d262c4c2ca9bab725df4b50920b3e964f003f8b73790ba5f5bd9   | gasUsed (unit) gasPrice (wei) ETH price<br>67153 12518954030 €1,315025198  |  |  |     |  |  |
| 0x1f107e338c3498a58eaa0b4de767900e5e423153b182a0aad25ae37fdc35d343   | CTATO ADDARGADOS CA DODAGADOS Transpertions for storing public   | •  |  |     |  |  |
| 0x1f107e338c3498a58eaa0b4de767900e5e423153b182a0aad25ae37fdc35d343<br>0xbdffe4b1c9c5576469311f74cf46c245c24e14ab0acc72527890b12bfe47d9a6   | 67153 12018451901 €1,262451084 Transactions for storing public key readers (actors). One for   |  |  |     |  |  |
|  | 67153 10717974130 €1,02491094 Key readers (actors). One for 67153 11751793354 €1,234440541 supplier1, supplier2) main  | rer,   |  |     |  |  |
| Average  | 6/153 11/51/93354 €1,234440541 supplier1, supplier2) main  |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0xa59178031ef34ef8bf54437bfd7eca6bd9d7bed479fd76bde7725f9effe521a0   | 67533 8608223224 €0,909348121  |  |  |     |  |  |
| 0x396d64ec383f77740e4e38c85e024be9f13d66025810d000994e8eaa6486c3af   | 67533 7237661307 €0,764565874  |  |  |     |  |  |
| 0xf53ef99299dd09507ae3504f96abece623a3f448c07aad05c8d75d237e96ce18   | 67533 7256302576 €0,766535084  |  |  |     |  |  |
| 0x9dadadcf94e54816917459d8441f65ee10559c5e26b9a660d42f680cc6753006   | 67533 7077099551 €0,747604589 Transactions for the storage   | of   |  |     |  |  |
| 0x227e1240526310e23d5bf9622997cc94f484f57438cc78cb818040fd3ce3a503   | 67533 18861563416 €1,992481702 Transactions for the storage for 533 9808170015 €1,036107074 the MARTSIA approach   | of   |  |     |  |  |
| Average  | 67533 9808170015 €1,036107074 the MARTSIA approach   |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0x2f79266334ff14733a10d9bdbaa16cb2a6757ea3e34a9e54af7619edee45ac40   | 67755 18148518948 €1,923459958   |  |  |     |  |  |
| 0x45582a85831c5043250337aa4bd628d98d374f6ed348043c87c0fc5c0dd7fc5c   | 67755 17175920509 €1,820379692   |  |  |     |  |  |
| 0x902afc0b804feb7b9adba26f23e594d08350a7b5f5a23df0de91cca9ab4daab8   | 67755 17532939842 €1,858218152 Transactions for the storage 67755 18107713984 €1,919135266 the authorities' names. 1st a of the authorities (each of the   | ıf   |  |     |  |  |
| 0x1ee92fc8976aa323793dfca456c6cf388caa0b879f538316362e0cf8e95baee7   | 67755 18107713964 €1,919135266 of the authorities (each of th  | Jon  |  |     |  |  |
| Average  | 67755 17741273266 €1,880298267 one transaction per authority   | ,""  |  |     |  |  |
|  |  |  |  |     |  |  |
| -02-17 0x4807cd997b9e71cb61ab9deea13387e63bf33e1bd2f4bc1d52d404c6ce8d7775  | 113680 17872786297 €3,178168643  |  |  |     |  |  |
| 0xb6f7cdc1d58fc25454bf3ebc5480948a9e2c3bbe3a3b3d7a54e1d7d4392dbb70   | 113680 15745845664 €2.799952515  |  |  |     |  |  |
| 0xed93c7da86836e5dddd17e9efbd9b28e0bea590f292504e059bd33b886a3f2c1   | 113680 15166801258 €2,696985874 Transactions for the storage   | ıf   |  |     |  |  |
| 0xee9c3f46c0be9f14e3c41a55333d560ce32d2fb7c8593e25ff417ffc594ed82b   | 113680 14002703511 €2,489984072 of the authorities (each of the  | ion  |  |     |  |  |
| Average  | 113680 15697034183 €2,791272776 one transaction per authority  |  |  |     |  |  |
|  |  |  |  |     |  |  |
| -02-17 0x14086e65bb756d809367e5b51bcc50ee3d32eae262b9b02413f1f549b1499091  | 159693 14527763128 €3.628985565  |  |  |     |  |  |
| 0xh86001e6de77ef17a37a8133d61faee8ec65561f9d56871a838948fde56ca522   | 159693 14624843973 €3,6532360300   |  |  |     |  |  |
| 0xaca35h1frid48399e646h107c521h624a1f2417978641f57a21rid9d67f840hhd9d  | 159893 12805988181 63 148927757 Transactions for the storage   | af le  |  |     |  |  |
| 0xa83019c2f17d14d0h702hafddfa48cd2d10ah36018ac9a7f4fa5cc242fad34cf   | 159693 13034419812 €3,255953509 the elements. 3rd action of the authorities (each of them: on  | 2  |  |     |  |  |
| Oxa6301962117d14d0b702balddla46c02d10ab36016ac9a7l4ta5cc242lad34ct<br>Average  | 159693 13698248774 €3,421775715 transaction per authority)   |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0x36243d57e919656017525c00f54466f9b26c90f640c38c2edb9afdedd21df836   | 67731 10253549899 €1.086331437   |  |  |     |  |  |
| 3-02-17 0x36243d57e919656017525c00f54466f9626c90f640c38c2edb9afdedd21df836<br>0x7e365d0ad7ec15e2c33bcd33c0940882ecfc7ad213ca06a1ff2d3be4c7d7049e   | 67/31 10253549899 €1,08633143/<br>67731 11560926540 €1,224843890   |  |  |     |  |  |
| 0x/e365d0ad/ec15e2c33bcd33c0940882edc/ad213ca06a1ff2d3be4c/d7049e<br>0x42965bdd768513faa4d0e600908e7b7497b1d48496925f9f479b4c6e8019168f  | 67731 11560926540 €1,224843890<br>67731 10469425058 €1,109202733 Transactions for the storage  | of .   |  |     |  |  |
| 0x429656dd768513faa4d0e600908e76749761d48496925f9f4795466e8019168f<br>0xdff4c51c0b077c403f8ecadae661836df82f65809c540b9dfa1d644e8fc2a5b2   | 67731 10469425058 €1,109202733 Hallascolos of the storage the public parameters. 4th at 67731 11197614629 €1,186352133 of the authorities (each of the   | ion  |  |     |  |  |
| uxun4c51cubu77c4u3teecadaeoo1636df62f6c8u9c54u09dfa1d644e6fc28562<br>Average   | 67731 1197014029 €1,180302133 of the authorities (each of the 67731 10870379032 €1,151682549 one transaction per authority   | m:   |  |     |  |  |
| Average  | 67731 10670379032 €1,151062549 one transaction per authority   |  |  |     |  |  |
| 8-02-17 0xad243e59f84fc49448c9995036e85d83ef3c4cb7a4dc3ff639a5a93effc48586   | 67688 10785980196 €1,142015271   |  |  |     |  |  |
| 3-U2-17 Uxad243e59f84fc49448c9995U36e85d83ef3c4cb7a4dc3ff639a5a93effc48586<br>0xa497de569c40ebf736bc798081dc3ec10a119c121782175b1bed1b8dd76e5b72   | 67688 10785980196 €1,142015271<br>67688 10325017088 €1.093208682   |  |  |     |  |  |
| 0x7681c371f0045ce1da1d9c86ae521ad9a25c4954c931a9bff870a439f70b0d69   | 67688 9190016948 €0,973035321 Transactions for the storage   | of   |  |     |  |  |
|  | 67688 9420437068 €0,97432111 the public keys. 5th action of the public keys. 5th action of the public keys. 6th action of them: on   | rhe .  |  |     |  |  |
| 0x33e4a51f2f556fdef8f85b6f83a2309e98dedb44947ee24758448c287f57383c   | 67686 9420437068 €0,997432111 authorities (each of them: or  | ,  |  |     |  |  |
| Average  | 67688 9930362825 €1,051422846 transaction per authority)   |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0x737c40721f4f20833dbac6afafaa2778b826fcd80b475e717035872dff41b6f6   | 89772 11322755216 €1,589987208   |  |  |     |  |  |
| 0x3d011113946a34a0ca817b2b05c5dbf130438dbea583b1faf7b3bebc88212094   | 89772 10552062033 €1,481763345   | (sarebbe 89760)  |  |     |  |  |
| 0x472ce2719c1fead9901eb08f9d838db28f78c287a71bd90c8ab8577793198272<br>0xaa7c2ac645b9d6defec95511fde599d8e39c536e902f9282cc1cf5a2a425b130   | 89772 10817262854 €1,519003920   |  |  |     |  |  |
|  | 89772 11236466887 €1,577870250<br>Transactions for the storage   | of   |  |     |  |  |
| 0x4fce394cc40c6c3475158086f64d211dfc36e1ab012882aedf08ed34c5a393d7   | 89772 11250400867 €1,577870250 Transactions for the storage the IPFS link. Action 2.4 of the IPFS link.   | à  |  |     |  |  |
| Average  | 89772 11163275373 €1,567592401 MARTSIA approach  |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0xa692b93877b2c72e9a055a73350023c3c1f38e70ce54338a254572389b7ef3e0   | 21848 13115805275 €0,448236541 Transactions for passing the<br>22072 14618996553 €0,504730864 Pair of transactions: key req  | kev  |  |     |  |  |
| 0xcba65a021b099b4e6b0220eebaa758a6c80ee82236059ced46eb1e714a533436   | 22072 14618996553 €0,504730864 Pair of transactions: key req   | est,   |  |     |  |  |
| Average  | 21960 13867400914 €0,476352028 key on block. 1st auth  |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0xa64765e5be7f625913983400cb35c9626905bc2846eb22f93f3c616dc393c9d6   | 21848 17044020521  | xev.   |  |     |  |  |
| 0x02f84c8508f946869a1d39e4fa7d33de921675db3a72abde10ba0166c2ea1123   | 22072 16738707824 €0,577915346 Pair of transactions: key red   | est,   |  |     |  |  |
| Average  | 21960 16891364173 €0,580226650 key on block. 2nd auth  |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0x89d83342ecb539893517f360579d24cf01f687ee97f3a2518583c6b6e312f94e   | 21848 18351184220 €0,627157172 Transactions for passing the 21960 18501441178 €0,635533585 key on block. 3rd auth  | to.  |  |     |  |  |
| 0x1fe4f4079437428d09f932284e09e66ac356bce2566e2da4ee30a19589cd9faf   | 22072 18651698136 €0,643962646 Pair of transactions: key rec   | est,   |  |     |  |  |
| Average  | 21960 18501441178 €0,635533585 key on block. 3rd auth  |  |  |     |  |  |
|  |  |  |  |     |  |  |
| 3-02-17 0x5c140047b4dd7bbeca3628b54165357ff92441034a347c311512a671b4cb813e   | 21848 18134140190 €0,619739628 22072 18014348057 €0,621957699 Fair of transactions: key req  |  |  |     |  |  |
| 0x961771a3e3be9cafd98857df38bfbfcc44d90c626037aa16a4d04ca1006ee0bf   | 22072 18014348057 €0,621957699 Pair of transactions: key rec   | est.   |  |     |  |  |
| Average  | 21960 18074244124 €0,620859156 key on block. 4th auth  |  |  |     |  |  |
|  |  |  |  |     |  |  |
|  |  |  |  |     |  |  |
|  |  |  |  |     |  |  |
|  |  |  |  |     |  |  |
|  | gasUsed (unit) gasPrice (wei) contract address   | Final cost ETH   | Final cost €   |     |  |  |
| 0-218 transaction hash 9 0x2e63421338f6s668bc2e377aa893d529a344b1369ba2a2824b200ae7dcb9se01  | gasUsed (unit) gasPrice (wel) contract address<br>1692477 914104552 0x8s2B14228bFb65928eBf03F5f22FbF758A7  |  | Final cost € 29855300 € 2,44595109909193000000                 |     |  |  |
| 0x2e63421338f6a668bc2e377aa893d529a344b1369ba2a2824b200ae7dcb9ae01   | 1692477 914104552 0x6a2B14228bFb65928eBf03F5f22FbF758A7  | b2f92 € 0,001547100  | 29855300 € 2,44595109909193000000                              |     |  |  |
| 0x2e63421338f6a668bc2e377aa893d529a344b1369ba2a2824b200ae7dcb9ae01   | 1692477 914104552 0x6a2B14228bFb65928eBf03F5f22FbF758A7 gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys)  | b2f92 € 0,001547100<br>Final cost ETH  | 29855300 € 2,44595109909193000000<br>Final cost €              |     |  |  |
| 0x2e63421338f6a668bc2e377aa893d529a344b1369ba2a2824b200ae7dcb9ae01   | 1692477 914104552 0x6a2B14228bFb65928eBf03F5f22FbF758A7  | b2f92 € 0,001547100<br>Final cost ETH  | 29855300 € 2,44595109909193000000                              |     |  |  |
| 0x2e63421338f8e68bc2e377aa893952as344b1398bu2a28244200ae7dcb8e601 -02-18 transaction hash 0x42d6ds3x54082823a0b0e700e53x0962b716182c1e4422943c0b429783c646   | 1892477 914104552 0x6sz814228bFx65926eBl03F5f22FbF758A7 gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys) 1892477 940609709 0xc043776dA2379dFc7819e013F1A83c4b4  | b2f92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960  | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 |     |  |  |
| 0x2e6542133866698bc2e377aa8936529a344b13898a2a828240200er7ccbaec01 -02-18 transaction hash -0x2e6563a5c54026223a00e700e73a09622716182c1e4222943c0b429783c646 -0x2e6563a5c54026223a00e700e73a09622716182c1e4222943c0b429783c646 -0x2e6563a5c54026223a00e700e73a09622716182c1e4222943c0b429783c646 -0x2e6563a5c54026223a00e700e73a09622716182c1e4222943c0b429783c646 -0x2e6563a5c5402623a5c6402623a00e700e73a09622716182c1e422943c0b429783c646 -0x2e65421338666986223a00e700e700e73a09622716182c1e422943c0b429783c646  | 1692477 914104552 0x8x2B14228bFb65928eBf03F572FbF758A7 gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys) 1692477 94069709 0xc043776dx2379dFc7819a013F1A83c4b4 gasUsed (unit) gasPrice (wei) ETH price  | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adi, close                    | 29855300 € 2,44595109909193000000<br>Final cost €              | ۵   |  |  |
| 0x2e634213386a688bx2e377aa8936529a34401380ea2a28240200ae7ccdeae01  -02-18 transaction hash   | 1692477 914104552 0x6x28142286/Px656286803F522F6756A7 gssUsed (init) gssPrice (ine) contract address for 'main' (public keys) 1692477 940090790 0xc04377642379dFc78158013F1A83x464 gssUsed (init) gssPrice (ine) ETH price 167153 010007338 61006907791 77   | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adj. close                    | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ۵   |  |  |
| 0x2e634213386se686x2e377ae8936529s34461386ba2a82842004e74cb9e601  02-18 transation hash 0x2e6343s5c468262336b6r702e53u0982b716182c1e4822943c04429783c548  10x2e6343s5c468262346b6r702e53u0982b716182c1e4822943c04429783c548  10x2e6342674526746265696977139c156ad682d3119c1c474615c356844637930  0x3e65436247778351486c565462c7860664481844ce88032277400   | 1692477 914104552 0x6x28142286/Px656286803F522F6756A7 gssUsed (init) gssPrice (ine) contract address for 'main' (public keys) 1692477 940090790 0xc04377642379dFc78158013F1A83x464 gssUsed (init) gssPrice (ine) ETH price 167153 010007338 61006907791 77   | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adj. close                    | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ш   |  |  |
| 0x2e6342133866668bc2e377aa6936529a34bt3969ba2a2824b200aa7acb9ae01 2-18 transaction hash 0x2e56433x554082823a00be700e53a0962b7161f82c1e422943x0b429783c546 9 Transaction hash 2-18 0xe86531bc962853a0962b3738c15dbb52d319b1cd7a6155c358a46s793b 0x4666543bc77755321dbcc554422a055554bc776a054481844c880327774d0 0xaa26262047538324b69c5544422a055554bc776a054481844c880327774d0 0xaa26262043288804694676a656546267569650865638657676600   | 1692477 914104552 0x6x28142286/Px656286803F522F6756A7 gssUsed (init) gssPrice (ine) contract address for 'main' (public keys) 1692477 940090790 0xc04377642379dFc78158013F1A83x464 gssUsed (init) gssPrice (ine) ETH price 167153 010007338 61006907791 77   | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adj. close                    | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ۵   |  |  |
| 0x2e6342133886668bc2e377aa96936528a344b13809aa2a8244200aa76xb9ac01 2-18 transaction hash 0x2e645a3x54682623a00be700e53a09620716182c1e422943x0b4297835c48 te Transaction hash 2-18 0x4e6535160289627962a6569927139c16546965231991c47a9150c358a44e37930 dvas6e583a2e7753241496c565442ca556564c2780044481844c689532277460   | 1692477 914104552 0x8x2B14228bFb65928eBf03F572FbF758A7 gasUsed (unit) gasPrice (wei) contract address for 'main' (public keys) 1692477 94069709 0xc043776dx2379dFc7819a013F1A83c4b4 gasUsed (unit) gasPrice (wei) ETH price  | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adj. close                    | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0x2e6342133866668bc2e377aa6936529a34bt3969ba2a2824b200aa76xb9ae01 2-18 Itansaction hash 0x265dc3a3x564082823a0bce700e53a0962b7161f82c1e4422943c0b429783c846 9 1x1645dc3a3x564082823a0bce700e53a0962b7161f82c1e4422943c0b429783c846 9 1x1645dc3a3x564082823a0bce700e53a0962b7161f82c1e4422943c0b429783c846 9 1x1645dc3a3x564082823a0bce700e53a0962b71361f36bb52331901c07a9f150338a46c3793b 0xa62a2620241s3880146940ces6aa5c928cbbe4fb683cx00b3b5c38877e600 Average  | 1692477 914104552 0.04628142288P0565288B03F55278F758A7 gasUsed (unit) gasPrice (eve) contract address for main' (public keys) 1692477 940069799 0xc043776842379dFc27819e013F1A83-cb4- gasUsed (unit) gasPrice (eve) ETH price 67153 90907138 60,006607871 Transactions for storing public 67153 90577422 (0.0664026 keypret readies (action). One 67153 90574242 (0.0664026 keypret supplied) 67153 906583994 (0.06442747 keyp. on. block  | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adj. close                    | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ۵   |  |  |
| 0x2e634213386668bc2e377aa6936529a344b1306ba2a2824b200ae7 6xb9ac01  22-18 Iranaction hash 162-16 Carea  | 1692477   14104552   0x4ac014228PF655228eB0375527FF758A7 gasUsed (unit) gasFrice (we) contract address for 'manir' (public keys)   340000790   0xcd3756a22796FE2758239671371A33-044   340000790   0xcd376a22796FE2758180013F1A33-044   360007130   0xcd376282   0xcd36a22796FE2758180013F1A33-044   360007130   0xcd376282   0xcd36a2296   0xcd36a2396   0xcd3   | b2/92 € 0,001547100 Final cost ETH 021dA6 € 0,001591960 ETH/EUR 18 feb 2023 (adj. close                    | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ui. |  |  |
| 0x2e634213386s6686s2c2s77ae893d529s344913869s2a68249200se7acb9se01  22-18 transaction hash (0x2e505d3s2-5696822360be700e53s0962b7161f82c1eM22943c0b429783c546  9 transaction hash  122-18 0xe865519t6298b76952a6569927138e15adb65231961c07ae150c368a46s7930 0xa68e503d2e777b5327d6s0c56442add55c94cc7afa0634481846x69322774c0 0xa82e26204 acc38014b940ce86as5c92e0bb64fb853cc00t3s36c589277e600 Average  1 Transaction hash  22-18 0xe865519469745330155267e55682d779c552ddcac48867130b40b6692ce   | 1692477 914104552 0x6a2814228bP65628eB03F522FbF758A7 gasUsed (unit) gasPirice (ver) contract address for main' (public keys) 1692477 940609799 0xc043778642379dFc27819e013F1A83c8A6 gasUsed (unit) gasPirice (ver) ETH price 67153 906370738 6006507871 Transactions for storing public 67153 906370422 60,06640268 keypirel 1x specified; (action.) One 50753 906374242 60,06640268 keypirel 1x specified; (action.) General Conference of the Conference o | ETHEUR 18 feb 2023 fed. close c  € 1.580.99  eter,   | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0x2e634213386iae68bc2e377aa86936528b34461386ba2a28240200ae74cb8ae611  22.18 transaction hash 0x426543s3c54082623a00be700e53a0962b71618b21e422943c0b429783c548  abele 17amasction hash 02.16 0xe6e531462298b2763e569927139c15dae6253199c1cd746150x35844657393  0xa6e5334677785351dae6c56569927139c15dae6253199c1cd746150x35844657930  0xa6e34634677785351dae6c56569927139c15dae6253199c1cd746150x35844657930  0xa6e34634677785351dae6c56569927139c15dae6526306x064461846c86032577460  0xa6e346467785351dae6c56999279c9064664679606464819653c0003b5c38677e5900  Average  atter 17amasction hash 02.16 0xe6e5d8969774448ta30915267e4656a2978c553ddcae48e97130440bde952ce  0x16e66468969774444ba309152674e566a2978c553ddcae48e97130440bde952ce  0x16e66468969774444ba309152674e566a2978c553ddcae48e97130440bde952ce  0x16e66468969774444ba309152674e566a2978c553ddcae48e97130440bde952ce  0x16e66468969774444ba309152674e566a2978c553ddcae48e97130440bde952ce  | 1692477   914104552 0x8a2914228PF9559228B935F9527FF758A7 gasUsed (unit) gasPrice (eve) contract address for 'man' r)ublic keys) gasUsed (unit) gasPrice (eve) ETH price gasUsed (unit) gasPrice (eve) ETH price 17153   90807739   60.095977871   Transactions for storing public for the price of the price o   | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ω   |  |  |
| 0x2e6342133866a688c2e377aa8936529s344613869a2a828240200ae7acb9ae611  02-18 Itansaction hash 0x2e534213386563635406262736050e700e53a0962b716182c1e4422943c0b429783c546  ade 17araaction hash 0x2e5342543636362736050e700e53a0962b716182c1e4422943c0b429783c546  3e8 17araaction hash 0xae2ae262477652246568227139c1564b62231901c07a91560368a4637930  0xae2ae26247463800146940cc69442ca85656b4cc75a0644481944cc80322774c0  0xae2ae262441cs800146940cc964a5c62966cc75a0644481944cc80322774c0  0xae2ae262441cs800146940cc964a5c62966cc75a0644481944cc80322774c0  0xae2ae2624741cs800146940cc964a5c62965c624786055c003365c38677e600  4Average  48 17araaction hash                | 1692477   914104552   0x4a2914-2289F955229E903F9527F9759A7   | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0x2e634213386iae686x2e377aae8936529s34461386ibac2a824200iae74cb9ae611  22.18 transaction hash 0x2e6343s5c5408262330b0e700e53u0962b716182c1e4422943c0b429783c548  alee Transaction hash 02.16 0xe66531462986b76926569927139c15de65c253199c1cd7a6150x35844657393  0xa6653de47755251de65c56545659927139c15de65c253199c1cd7a6150x35844657930  0xa62a2e02041ac38601409490ce96aa5c52998cb6e46963cc0003b5c38677e500  Average  alee Transaction hash 02.16 0xe66c896977x454bia33015267e1656a207965550ddcae48967130x406de692cc  0x166c66b36438339696b2217ea3215674e970ce2c3200539255771564c458373   | 1692477 914104552 0x6a2814228bP65628eB03F522FbF758A7 gasUsed (unit) gasPirice (ver) contract address for main' (public keys) 1692477 940609799 0xc043778642379dFc27819e013F1A83c8A6 gasUsed (unit) gasPirice (ver) ETH price 67153 906370738 6006507871 Transactions for storing public 67153 906370422 60,06640268 keypirel 1x specified; (action.) One 50753 906374242 60,06640268 keypirel 1x specified; (action.) General Conference of the Conference o | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | α   |  |  |
| 0x2e6342133869a688c2e377aa8936529s344613869ba2a828240208ae74cb9ae61  02-18 fixmastion hash 0x42e63ds3c54082823380be700e53a0862b7161f82c1e4422943c0b429783c846  9x42e62ds3c54082823380be700e53a0862b7161f82c1e4422943c0b429783c846  9x42e62ds3c547f785327ds6ds2e58669827139c156ds6d52319b1c07a9156c388a4695793b 0xas2e62d541ac8804264962c6484256ds6d52d519b1c07a9156c388a4695793b 0xas2e62d541ac8804264962ds6ds6ds6d5468635c059365c58877e606 Average  17araacation hash 17araacation hash 0x4e6365864743300f5267e65682d756552ddcac48867130040bde6572ce 0x18e6ed68a43385398ef8c217eaa3715674e67cecb220083925c77156e3453578 0x4c5565862142626b7815bd61959e34a66db667c2e6aba31a1a1226092ebe02 Average  | 1692477   941-01625  | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0x2e65421338664688bc2e377aa88936529a344613808a2a828240200er7ccb8ec01  40x2e65421338664688bc2e37aa00er70ce53a0966271618821e422943c0b429783c548  40x2e6563ac546026223a0bc970ce53a0966271618821e422943c0b429783c548  43de6  47arsaccton hash  40x2-18 0xe6653196298ex76228569927130e1560e626231981c04789150x55844e37930  0xa66533a26747785531486cx564565646cx27804044819446ce8032277400  0xa62a2a202241ac3880146940ce846865644cx27804044819446ce8032277400  0xa62a2a202241ac3880146940ce846865644cx2780406481946466803277400  0xa6466368977453514860x564757656a24778-5523d6ca468671300405669726  0x16ec466840383398462cx271426736746762624205832555771586495373  0x455358621433226b77b15046196496348605697286463131a102609264692  40x2e666466989774544463596662674696346778-5523d6ca469871300405669726  0x16ec466463833984662x2714267364764762642643537360656776664676647676766667669676667666766676  | 1692477   14104552   0462014208Pr650228eB03755278P759A7  | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0x2e654213386s698btz2e377as899b529e34413969a2a828240208e70cb9e601  -02-18 transaction hash 0x2e96bt3a3c5406282a00c970e53a0962b716182c1e4422943c0b429783c646  date Transaction hash 12-16 toxeeb653bt2977855276659827139c15d0b62d31961c07a9150c358a469793b 0xas6e35bt2977855276669827139c15d0b62d31961c07a9150c358a469793b 0xas6e35bt2977855276669827139c15d0b62d31961c07a9150c358a469793b 0xas6e35bt297785527669867654865550c07a90c5448194640582774c0 0xas6e26250 arc 48690149940cas6as5c3293cbcs4696550c0053bcc39877e606 Average  4569  4 | 1692477   94104955   0x4a2914-055228-B03595278-F759A7  | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0.2e6.342133866668bc2e377aa893d529a344613808a2a828240200e87ccbaec01  1-02-18 transaction hash 0x42x66543x5454026223abboe70e53a09602716182c1e4422943c0b429783c548  date Transaction hash 1-02-18 0xe65319c298e57e72854569927139c156d9622319b1c197491502358a4637930  0xa65333a2672417755521486cc58424556946cc780a0444819446ce80323774c0  0xa62x3a262241ac38891469440ce86sa5632958cbe419653-cc0003b5c38677e500  Average  date Transaction hash 1-02-18 0xe64d6d98977a4344830115287e566a2477e552ddcac469a7130640b64952c  0x164d6d84383938692cc2712e32478e74506a2477e552ddcac469a7130640b64952c  0x164d64634839386962c271ac91247644504045053552ddcac469a7130640b64952c  Average  1-02-18 0x164d646997a434483039662c271ac912476497c28ebac31a1a1120092ebe02  Average  1-02-18 0x164d656466646744146796b1919596e664115ab880b0006e77cccccc044   | 1692477   14104552   0402014239Pr6505228eB0375527PF758A7   | 221dA6 € 0,001647100 Final cost ETH 221dA6 € 0,001619800 ETH/EUR 18 feb 2023 (sdl. close € 1,300,99        | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ш   |  |  |
| 0.22653421338698698c2e377 as89365298344b13869a242824000se74cc69ed01 3-02-18 Transaction hash 0x42695334254953625340062700e5380962b716182c1e4422943c0b429783c646 date Transaction hash 0x2-16 Quebb531192698b2796926569927139c15dbb52d31961c073e9150c3584463793b 0x366538287776537 as89cc598427as855c549cc778c0b446184c0e3022774c0 0xa66538287776537 as89cc598427as855c549cc778c0b4461846c0e3022774c0 0xa66538287765373 as89cc598427as855c549cc778c0b44618460e3022774c0 0xa66538287765373 as89cc598427as855c549c278c0b4618653c00b365382774c506 0xa66538287765373 as89cc698277655266c0e46967300b365382774c506 0xa66538287765537600000000000000000000000000000000   | 1692477   014104552   0462014208PrioSp22eB037552FB758A7 gasUsed (unit) gasPrice (we) contract address for 'mann' (public keys)   040000700   040007000700   0400070007000070   | 20182 € 0.001647100 Final ross ETH 2214A6 € 0.001691800 ETH/EUR 18 feb 2023 fad. close c (1.580,99) Creer, | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0.2e6/3421338694680bc2e377 as893.95298344e11369842a28242008e270c0e8e101 3.02.18 transaction hash 0.4276862825340068700e700e53a098527161182c1e4822943c0b429783c648 date Transaction hash 3.02.18 to 0.68853196298627369659627130e15640622319in10r349150c358a4e137305 0.688531962986279826596927130e156406262319in10r349150c358a4e137305 0.68853196298627952314606596927130e156406262319in10r34981940646984697305 0.6885319629862795521486062846565646e27860644819466698577460 0.688628629214628691469400e886a565646287860644819466689506568577460 0.688628629140646969967764346433011526765553056264698713004006495726 0.18864666980976434663301152676555305626596776595054557785964543573 0.68553562214322697819699696785466697869786666972686680314113056669767859786978697869786978697869786978697869786   | 1692477   014104552   0462014208PrioSp22eB037552FB758A7 gasUsed (unit) gasPrice (we) contract address for 'mann' (public keys)   040000700   040007000700   0400070007000070   | 20182 € 0.001647100 Final ross ETH 2214A6 € 0.001691800 ETH/EUR 18 feb 2023 fad. close c (1.580,99) Creer, | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ш   |  |  |
| 0.cd=34413868se68bc2e377as895d528s344b13868sc28284b000se7cbc9ed01 3-02-18 transaction hash 0x42d6cds3a545692623sb06e700e53sw0982b716182c1e422943c0b429783c948 ddde Transaction hash 3-02-18 0x4585d5465263sb06e700e53sw0982b716182c1e422943c0b429783c948 ddde Transaction hash 3-02-18 0x4585d546775537246bc64624656546c2783b016d74978505486467770b0 0x4585d5467775537246bc64626565646c278b046486786468867170b0 0x4585d5467775537246bc64626565646c278b04648678664685770b0 0x4585d546775537246bc646565646c278b04656646c278b0468867170b046066972 decrego 1 ddde 1  | 1692477   14104552   0402014239Pr6505228eB0375527PF758A7   | 20182 € 0.001647100 Final ross ETH 2214A6 € 0.001691800 ETH/EUR 18 feb 2023 fad. close c (1.580,99) Creer, | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | Δ   |  |  |
| 0.cze6342133869a688bc2e377 as893d529a344b1369a62a2824b200se7cc0aec01 30.02-18 transaction hash 0x2064583-55405282a0b0e700e53a40982b7161182c1e4822943c0b429783c648 dalle Transaction hash 30.02-18 0x69853196286b273a0b0e700e53a40982b7161182c1e4822943c0b429783c648 dalle Transaction hash 30.02-18 0x69853196286b27363659827136c15d6b62623118b10c1749150x558a4e137930 0x698531962786527450000e56569827130c15d6b62623118b10c1749150x558a4e137930 0x698531962785521486b696927130c15d6b62623118b10c1749150x558a4e1379780 0x6982a62024116238901480e960x6569482c7865530dcac469867130b40b6952ce 0x16986598643883999662c714758322168764976x26b200538256277156b645837378 0x653568224362869776150b6196893486d686972628ebas211a1a1b20002ebe02 Average 13-02-18 0x6456598669656983748665569837486557753675691938x658485738 0x65356824452696776150b61966954486d686972628ebas211a1a1b20002ebe02 Average 13-02-18 0x645659866955686937965565698314869877753675691938x658481b1135 0x640546985695267686956985566665698314666669762864648151616866666000000000000000000000000000   | 1692477   14104525   0462014208Pri505228eB037522FB758A7  | 20182 € 0.001647100 Final ross ETH 2214A6 € 0.001691800 ETH/EUR 18 feb 2023 fad. close c (1.580,99) Creer, | € 2,44595109909193000000  Final cost € € 2,5168733122609900000 | ш   |  |  |

| 0.0400 - 4500 - 4.000 - | Transport Transport of Transporting for the playage of   |  |
|---|--|--|
| 0x8482edff33db06b5f03o4a9f51ee9b7947d52fado4f57da421621096c362d1ba  | 67755 716746028 60,0767777818 Transactions for the storage of the submitted from the subm |  |
| 0x0c99799afc5f2d24d1b22fbbf87053015c06ec43af2dc8bc4028e220e33c4690  | 67755 715410074 60,076654775 6 sullinoties names. 1st action 67755 715410074 60,076654775 6 sullinoties names. 1st action 67755 715410074 60,076654775 6 sullinoties names. 1st action   |  |
| Average   | 67755 712905973 €0,076366472 one transaction per authority)  |  |
|   |  |  |
| 2023-02-18 0xa95b92f7d3d1a6adfa5edc0787ef34d0a7d3fe2e8ab2999d7cd53dbdb0e73498   | 113880 711801840 €0,127923989  |  |
| 0xceabd4b2802d79326cb5eb8ae202727d907b2803050fbb205d9fc2a9c1741727  | 113890 705596079 €0,126814626  |  |
| 0x44fafcf11f5a4036b6d6fbf2b49de882704619239d3ca69ea3809017d07691c1  | 113880 706298789 €0,127300376 Transactions for the storage of  |  |
| 0xd50df0a516ebc675dde2ade3bdeeeaf1b96d4ebdbe2a3c3572b9bfeb4707ef1c  | 113680 708113444 60,1272870965 In tabuted elements. 2nd sidron   |  |
| Average   | 113800 708452538 E0,1273230009 one transaction per authority)  |  |
| Metage  | 1 1000 TOTALDO CO, AL GLOOD WILL GUIDAGOOD PER MINING  |  |
| 2023-02-18 0xc43fd5b276380c2fa2f8de8dd4b08009ba2f3f67e7033d233799085fe90c7849   | 159893 708041306 €0,1782563392   |  |
|   |  |  |
| 0x07ec4ce635dd3bb1377d4ac56f0ad52d22bac93de0bac8fad8a41ca1e869bb4c  | 159993 712039977 €0,119770082  |  |
| 0x75a060386c6238f03f4cc9c4ac6c1baf70667eac8629961b391187139505d8ce  | 159693 71378493 €0,180211450 Transactions for the storage of the s |  |
| 0x5850ee561c23646a59195e06b09fc02aa9e7e5cef56d3d22b974ab88511edc8d  | 159893 708278988 60,178920983 authorities (such of them one  |  |
| Average   | 159693 710034971,8 €0,179264685 transaction per authority)   |  |
|   |  |  |
| 2023-02-18 0x915e16178b7a070ee5f91ab0c8e369261935d47e7b82cd6f21ce050641745baa   | 67731 703195173 €0,075299599   |  |
| 0x3e2a9adb407c1a18a09285880e10e3f8752122e1e602490e9664b7666b05f68f  | 67731 699589527 €0,074913148   |  |
| 0x4d1aaa8a59f68b406a12011a01089c38e95f9009b0b5d3865b48412b88453799  | 67731 696874985 €0,074622791 Transactions for the storage of   |  |
| 0x65ad12b0d54722fbd2c140b0b4327d076674473ebb84ca9c27ffc55b3588a97a  | 67731 698874985 60,074822791 Transactions for the storage of 67731 694233970 60,0743239986 by tulic parameters. 4th action   |  |
| Average   | 67731 698472683.8 €0.074793873 one transaction per authority)  |  |
|   |  |  |
| 2023-02-18 0x81bb2195f67aaa989004188e80e9a580ae43d4514a5d8732fb7d20bd8d449e7e   | 67888 691921119 €0,074045282   |  |
| 0xab0d63d25819b210c449f6a3532ad4cec28fd6a06c441f36e838ffe6332a1a1b  | 6768 61868811 60074018281  |  |
| 0x0738597005c08c238ebe5160ad5b2d99df1a462249f165feae853d53c0d3491c  | 01006 001006 01000 |  |
|   | 07000 00000717 COUNTS 00000 PM 0707515 COUNTS 00000 PM |  |
| 0x9f99addd741dc8d08971eeada31e8bf0e9f76cab02ecd7b7229e7a394e97fba0  | 67/888 6876/75135 ±0.0/7399999 authorities (each of them: one  |  |
| Average   | 67888 690340583,5 © 0,073876140 (transaction per authority)  |  |
|   |  |  |
| 2023-02-18 0xd9d3426bb8b17993cfb94a835eecd30202280b02de0c82eecc16c255ada2d668   | 89772 885995519 €0,097362407   |  |
| 0x0736f6aba4b7df4de4441dc45106ed4a483c2baed98ef34177e3c9ab6fc50e1e  | 89772 685135285 €0,097240315   |  |
| 0xea428ca1a2dd135213afd1b7d18793b93d2267645dd33c092adb59368052a2d5  | 89772 684374701 €0,097132367   |  |
| 0x15175b011b345d27206a4d298603c58b1cd8aebc632a4e01725a4b64336d68d5  | 89772 683755238 €0,097044447 Transactions for the storage of 69772 682977259 €0,0698344030 the pFTS link. Action 2 A of the  |  |
| 0xbcaae27991d984b64630c97a721a5c0423bd74d31008d3773d23a9a79fd32b51  | 89772 682977259 €0,096934030 the [PS] link Adding 4 ft   |  |
| Average   | 89772 684447600.4 €0.097142713 MARTSIA approach  |  |
|   |  |  |
| 2023-02-18 0x2466f59baa7d5e4887999b3c9382c20a8e78df1a5c29fd184290dfbbf80c56ff   | 21848 682212597 €0 023564626   |  |
| 0x447d010e6dc8afbca20a00259efd80a75a48b1302b361cce8aa5f1b96eb70b55  | 21949 682212597 €0,023564926 Transactions for passing the key.  22072 682125661 €0,023804928 Pair of transactions key request.   |  |
| Average   | 21960 682171079 €0.023639394 key on lock, st auth  |  |
|   |  |  |
| 2023-02-18 0x6feb0dcbbcaf801b42c430f8e8da35f3b70a131f220ab1ee685bd65f3063cd08   | 21989 271,00075 50 072,00550   |  |
| 0x8b21c742732ed08d3f6c34c5e8489653967adf0d3b6c13fb393bcafd2573f143  | 21849 679460025 €0,02346958<br>22072 678619375 €0,023469649 Pair of transactions key request,  |  |
|   | Z2012 01:00:00191 CVA2-0000049 Pair of Yanasctions, Key request, 2100. 20100. 2010 CVA2-000049 Pair of Yanasctions, Key request, 20100. 20100. 20100. 20100. 20100. 20100. 20100. 20100. 20100. 20100. 20100. 20100. 20100.  |  |
| Average   | 21980 679037150 €0,023575179 key on block. 2nd suth  |  |
|   |  |  |
| 2023-02-18 0xdf7d0e78a7179ca607062ce0acff85998e8b137f12aab8825b360aa52fe4321d   | 21848 678019336 60,023419784 Transactions for passing the key. 22072 677480764 60,023841105 Pair of transactions key request,  |  |
| 0xb2beebee9b286981ff6caf0cd0312fd1199149fd7ef43f2bfcfe4e91ee357bb5  | 22072 677480784 €0,023941105 Pair of Yansactions: key request,   |  |
| Average   | 21980 677750050 €0,023530492 key on block. 3rd suith   |  |
|   |  |  |
| 2023-02-18 0x5190513ea5f391b4123eeed470a386b51cc9a1086e9f3dd5d63357202f1a4ee5   | 21849 677302122 60,023395011 2007.2007.000 60,023393982 Transactions for passing the key. Pear of tansactions key request.   |  |
| 0x91de9ddc5de0c50c14c6ec46d142c0e6f16205231390059c46db590ce11ba44c  | 22072 677245104 €0,023632882 Paid informactions for passing in Key.  |  |
| Average   | 21960 677273813 €0,023513951 key no bishook. 4th suth  |  |
|   |  |  |
|   |  |  |