

**SURVIVABLE SECURITY SYSTEMS ANALYSIS**

Y.R. Garasym

*The paper is devoted to survivable security systems analysis. Resistance to attacks, intrusions, failures are increasing and, consequently, increases efficiency and effectiveness of enterprise functioning by implementing survivability mechanisms for security systems. The basic properties of survivable security systems are described. The paper proposes a survivability analysis method which is based on the security systems taxonomy of threats and functioning quality degradation levels.*

**Keywords:** survivability, security systems, functioning quality degradation levels.

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 Unimog U650 Hummer COHHV, 1,5 ,  
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.2. Unimog U1200

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330 , . 1).

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041, 71  
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.3. Praga UV 80



.4. Unimog U650



.5. Hummer COHHV

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| /   | ” ”                                       |   | PRAGA                            |                                  | MB UNIMOG         |                       |                   |  |
|-----|---|---|----------------------------------|----------------------------------|-------------------|-----------------------|-------------------|--|
|     | -71                                       | -101                                      | UV80                             | ALFA TH                          | 432722            | U1200                 | U1600             |  |
| 1.  | 7000                                      | 10000                                     | 7000                             | 1000                             | 8100              | 7500                  | 10000             |  |
| 2.  | 3000                                      | 5000                                      | 3000                             | 5200                             | 3700              | 3000                  | 5000              |  |
| 3.  | BF4M<br>2012C<br>104/2500<br><br>378/1500 | BF4M<br>2012C<br>104/2500<br><br>378/1500 | BF4M1012<br>EC                   | MAN<br>D0834<br>LFL              | 245. 12           | 366                   | 366               |  |
|     |   |   | 82/2500                          | 103                              | 79/2400           | 92/2400               | 115/2400          |  |
|     |   |   | 375/1500                         |                                  | 340/<br>1600-2000 | 425/<br>1600-<br>1800 | 530/<br>1500-1600 |  |
| 4.  | PRAGA<br>8PR45<br><br>8 / 8<br>3          | PRAGA<br>8PR45<br><br>8 / 8<br>3          | PRAGA<br>8PR30<br><br>8 / 8<br>3 | PRAGA<br>12PS91<br><br>12/2<br>2 | 5 / 1<br>2        | 8 / 8<br>3            | 8 / 8<br>3        |  |
| 5.  |   |   |                                  |                                  | -                 | -                     | -                 |  |
| 6.  |   |   |                                  |                                  |                   |                       |                   |  |
| 7.  | 12,0-R20                                  | 12,0-R20                                  | 12,5-20<br>12PR                  | 12,5-R20<br>22PR                 | 12,0-R20          | 12,5-20               | 12,0-<br>R22,5    |  |
| 8.  | -   | -   | -                                | -                                | -                 |                       |                   |  |
| 9.  | 80  | 80  | 80                               | 95                               | 72                | 83                    | 83                |  |
| 10. | 4400                                      | 5400                                      | 4640                             | 6350                             | 5400              | 4470/5100             | 4470/5100         |  |
|     | 2480                                      | 2480                                      | 2480                             | 2500                             | 2470              | 2110                  | 2170              |  |
|     | 2780                                      | 2780                                      | 2800                             | 2670                             | 2810              | 2620                  | 2655              |  |
| 11. | 400                                       | 400                                       | 410                              | 380                              | 330               | 440                   | 495               |  |

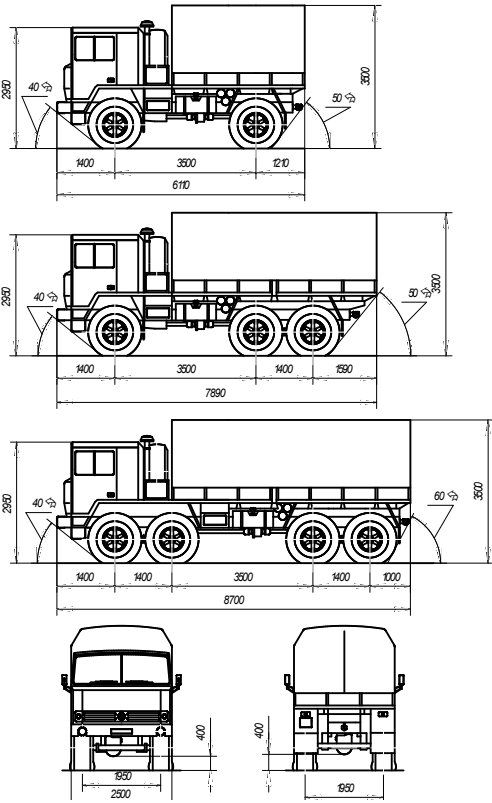
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| /  |                      | -              | i                    |                      |                      |                      |                      | 5,0                | 7,0                  | 10,0                       | 2                  | 3                    | 4                    |
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|    |                      |                | 66                   | 131                  | 4320                 | 4310                 | 260                  |                    |                      |                            |                    |                      |                      |
| 1  | i                    | -              | 4 4                  | 6 6                  | 6 6                  | 6 6                  | 6 6                  | 6 6                | 6 6                  | 6 6                        | 4 4                | 6 6                  | 8 8                  |
| 2  | i i -<br>i ,         |                | 2000                 | <u>3500</u><br>5000  | 5000                 | 6000                 | 9000                 | 5000               | 7000                 | 10000                      | 4500               | 8800                 | 11800                |
| 3  | ,                    |                | 3640                 | 6700                 | 8440                 | 8715                 | 12775                | 7500               | 8600                 | 13000                      | 7130               | 8750                 | 10710                |
| 4  | ,                    |                | 5970                 | 11925                | 13665                | 15100                | 22000                | 12800              | 15900                | 23300                      | 11860              | 17770                | 22740                |
| 5  | ,<br>- i<br>- i<br>- | 1<br>2         | 2930<br>3040<br>-    | 3500<br>-<br>8425    | 4200<br>-<br>9445    | 4915<br>-<br>10185   | 6620<br>4300<br>-    | 4200<br>5800       | 4300<br>7500         | 8300<br>5950               | 6100<br>7200       | 6200<br>7200         | 5500<br>7200         |
| 6  | ,<br>,<br>i i,       | i4<br>2<br>2   | 5805<br>2322<br>2400 | 6900<br>2500<br>2975 | 7366<br>2500<br>2870 | 7895<br>2500<br>2860 | 9030<br>2722<br>2985 | 7600<br>-<br>-     | 7800<br>2500<br>3200 | 8200<br>-<br>-             | 5775<br>-<br>-     | 7175<br>2500<br>3200 | 8575<br>-<br>-       |
| 7  | ,                    | L1<br>L2<br>L3 | -<br>3300<br>-       | -<br>3350<br>1250    | -<br>3525<br>1400    | -<br>3440<br>1320    | -<br>4600<br>1400    | -<br>3525<br>1400  | -<br>3525<br>1400    | -<br>-<br>-                | -<br>3325<br>-     | -<br>2975<br>1400    | 1400<br>3325<br>1400 |
| 8  | i ,<br>- i<br>- i    | 1<br>2         | 1800<br>1750         | 1820<br>1820         | 2000<br>2000         | 2010<br>2010         | 2160<br>2160         | -<br>-             | 2000<br>2000         | -<br>-                     | -<br>-             | 2000<br>2000         | -<br>-               |
| 9  | i i .<br>-<br>-      | L13<br>5       | 3330<br>2050         | 3600<br>2322         | 3900<br>2378         | 4800<br>2320         | 5000<br>2520         | 3900<br>2380       | 4500<br>2500         | 5000<br>2520               | 3880<br>-          | 4780<br>2380         | 6180<br>-            |
| 10 |                      | -              |                      |                      |                      |                      |                      |                    |                      |                            |                    |                      |                      |
| 11 | i ,<br>/ .           | N              | <u>84.6</u><br>3200  | <u>110.3</u><br>3200 | <u>154.4</u><br>2600 | <u>154.4</u><br>2600 | <u>220.6</u><br>2100 | <u>228</u><br>2100 |                      | 265-<br><u>309</u><br>2110 | <u>162</u><br>2200 | <u>220</u><br>2200   | <u>300</u><br>2200   |
| 12 | i i i<br>i i,        | R5             | -                    | -                    | -                    | -                    | -                    | 4900               | 5000                 | 5500                       | 2400               | 1800                 | 2400                 |
| 13 | , ,                  | 2              | 35                   | 45                   | 44                   | 32                   | 40                   | 40                 |                      |                            | 45                 |                      |                      |
| 14 | , , .                | 3              | 32                   | 40                   | 40                   | 35                   | 35                   | 45                 | 45                   |                            | 45                 | 45                   | 45                   |
| 15 | i                    | -              | 12.0<br>0-18         | 12.00-<br>20         | 14.00-<br>20         | 310-<br>533          | 530-<br>533          | 1300 530 533       |                      |                            | 1100 400 533       |                      |                      |
| 16 | i ,                  | D WC           | 1084                 | 1142                 | 1260                 |                      | 1280                 | 1350               |                      |                            | 1100               |                      |                      |
| 17 | ,                    | WC             | 337                  | 348                  | 390                  |                      | 545                  | 550                |                      |                            | 400                |                      |                      |
| 18 | , /                  |                | 3.41                 | 1.67                 | 1.85                 |                      | 1.4                  | 1.86               | 1.6                  | 1.3                        | 1.78               | 1.29                 | 1.24                 |
| 19 | i i ,                | 1              | 315                  | 330                  | 400                  | 365                  | 370                  | 400                |                      |                            | 440                |                      |                      |
| 20 | i i , /              |                | 0.57                 | 0.77                 | 0.62                 | 0.68                 | 0.70                 | 0.59               | 0.53                 | 0.56                       | 0.63               | 1.0                  | 1.09                 |
| 21 | i , /                | NA             | 14.2                 | 9.25                 | 11.3                 | 10.2                 | 10.0                 | 17.8               | 14.3                 | 13.2                       | 13.65              | 12.4                 | 13.2                 |
| 22 | , /<br>i -           |                | 1.82                 | 1.34                 | 1.68                 | 1.45                 | 1.41                 | 1.4                | 1.2                  | -                          | 1.44               | 0.91                 | 0.85                 |



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PERSPECTIVE MODEL OF MOTOR-VEHICLE FORMING FOR ARMED FORCES OF UKRAINE IN MODERN CONDITIONS

L. Kraynyk, A. Voloshanskyy

In the article the existent model of motor-car materiel of Ukrainian Armed Forces is considered and the new, compatible model row of military vehicles, which meet modern requirements is offered.

Keywords: model, full drives trucks, technical descriptions.

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1, ... 2 ... " ... " ... [1,2] [3-5]. : ) ; ) [6]. [9] : ) [7-8] [10]