**Legend:**

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | message |

**Authentication phase:**

|  |
| --- |
| Username |

|  |  |
| --- | --- |
| Ns | Certs |

|  |  |  |
| --- | --- | --- |
| Nc | Ns | Yc |

|  |  |  |
| --- | --- | --- |
| Ns | Nc | Ys |

**Upload:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IV | AAD | Tag | Upload request | filename | size |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Ack |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Nack |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | File content |

**Download:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IV | AAD | Tag | Download request | filename |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | size |

**\*\* se size==0 🡪 Nack**

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | File content |

**Delete:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IV | AAD | Tag | Delete request | filename |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Confirm? |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Ok |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Ack |

**List:**

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | List request |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | File list |

**Rename:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IV | AAD | Tag | Rename request | Old filename | New filename |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Ack |

**Logout:**

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Logout request |

|  |  |  |  |
| --- | --- | --- | --- |
| IV | AAD | Tag | Ack |