

Prototype 1

1. Expected Completion Date

4 December 2016

2. Work Items

WP1-1, WP1-6: Encryption and Decryption of a File

WP2-3, WP2-4: Connection Establishment with Direct Connection

WP3-1, WP3-2, WP3-3, WP3-4: Connection Protocols with Limited Capability
(Registration, Authentication, File Upload Request, File Download Request, Peer-to-peer File Exchange)

WP4-1, WP4-2: Database Design and Operations

3. System's Capabilities

1. The system will be able to store files without fragmenting them.
2. Files will be moved between randomly selected peers with publicly accessible IPs. Users will have upload, download, remove files; create and list NARs options.
3. Users will be able to register and login to the system.

4. Use Cases

All capabilities are presented in one use case.

```
> nar signup
... username: baskin
... password: *****
... retype-password: *****
... DONE.
> nar create bitirme
... Generating AES key ...
... NAR: bitirme created.
> nar push kickoff.odt
... DONE.
> nar ls
... kickoff.odt file
> nar rm kickoff.odt
... DONE
>
```