

# Data-PASS SSP Use Case 2

lockss-0.icpsr.umich.edu	
IP Add	141.211.192.29
Commitment	100

lockss-1.icpsr.umich.edu	
IP Add	141.211.192.52
Commitment	1700

lockss-2.icpsr.umich.edu	
IP Add	141.211.192.53
Commitment	1700

props.irss.unc.edu	
IP Add	152.2.32.234
Commitment	39

dris.irss.unc.edu	
IP Add	152.2.32.233
Commitment	39

haar.irss.unc.edu	
IP Add	152.2.32.207
Commitment	200



Machine Ownership Key	
ICPSR	
Odum Institute	

Old Inv	AU0, AU3
New Inv	AU4

Old Inv	AU0, AU1, AU2, AU3
New Inv	AU4, AU5, AU6

Old Inv	AU0, AU1, AU2, AU3
New Inv	AU4, AU5, AU6

Old Inv	AU1, AU2
New Inv	AU4, AU5

Old Inv	AU1, AU2
New Inv	AU5, AU6

Old Inv	AU0, AU3
New Inv	AU6

## SCHEME UC2

Text at <https://wiki.hmdc.harvard.edu/DPP/index.php?pagename=DPP.UseCases>

Let there be  $h=6$  hosts and  $n=4$  AU's as previously defined in UC1.

Let there be  $j=3$  new AU's (AU4, AU5, AU6) such that there are  $n+j=7$  total AU's.

Generate  $h$  (6) new invitations, such that

**(Z) The original  $n$  AU's assigned remain unchanged.**

(A) For each AU, there are at least  $k=4$  hosts harvesting.

(B) For each host, the sum of max size of AU's harvested is less than storage commitment.

Repopulate AU's in invitation from original invitation:

\*AU0: Invite lockss-0, lockss-1, lockss-2, haar

\*AU1: Invite lockss-1, lockss-2, props, dris

\*AU2: Invite lockss-1, lockss-2, props, dris

\*AU3: Invite lockss-0, lockss-1, lockss-2, haar

For AU4 (size=1):

\*Invite lockss-0 ( $k=1$ ) (harvesting 100, comm 100)

\*Invite lockss-1 ( $k=2$ ) (harvesting 136, comm 1700)

\*Invite lockss-2 ( $k=3$ ) (harvesting 136, comm 1700)

\*Invite props ( $k=4$ ) (harvesting 37, comm 39)

For AU5 (size=2):

\*Cannot invite lockss-0 (harvesting 100, comm 100)

\*Invite lockss-1 ( $k=1$ ) (harvesting 138, comm 1700)

\*Invite lockss-2 ( $k=2$ ) (harvesting 138, comm 1700)

\*Invite props ( $k=3$ ) (harvesting 39, comm 39)

\*Invite dris ( $k=4$ ) (harvesting 38, comm 39)

For AU6 (size=0.5):

\*Cannot invite lockss-0 (harvesting 100, comm 100)

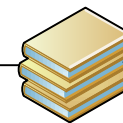
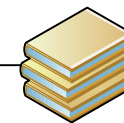
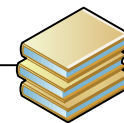
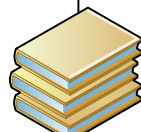
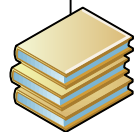
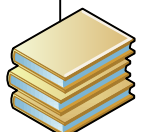
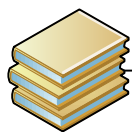
\*Invite lockss-1 ( $k=1$ ) (harvesting 138.5, comm 1700)

\*Invite lockss-2 ( $k=2$ ) (harvesting 138.5, comm 1700)

\*Cannot invite props (harvesting 39, comm 39)

\*Invite dris ( $k=3$ ) (harvesting 38.5, comm 39)

\*Invite harr ( $k=4$ ) (harvesting 101.5, comm 200)



Title	AU0
Size	95

Title	AU1
Size	18

Title	AU2
Size	18

Title	AU3
Size	4

Title	AU4
Size	1

Title	AU5
Size	2

Title	AU6
Size	0.5