Test Plan

Test Case ID	Requirement ID		Test Description
test_dynamic_nids_06	LU-10360-07		1. Configure an MGS/OSS servers on tcp network and mount them 2. Configure a client node on the tcp441 network 3. Dynamically add a new network to all the servers: lnetctl net add --net tcp441 --if eth0 4. Mount the client. Client mount should succeed 5. Do a read/write from the client to verify it works. 6. Unmount the client 7. Remove all Lustre modules from the client.
test_dynamic_nids_04	LU-10360-06		Setup a file system consistent of: 1 node: MGS/MDS 1 node: OSS should have 2 IP addresses 1 node: Client Mount the File System and the client Use only one of the IP addresses on the OSS Disable the dynamic_nids feature on the MDS but enable it on the client Write multiple files to the FS Read back the files and make sure they are correct unmount the OSS and remove lustre modules Change the OSS configuration to use the other IP address for NID load lustre on the OSS and re mount LS the file system. the metadata might be cached on the client and the LS could work Writing to the FS should timeout and fail.
test_dynamic_nids_05	LU-10360-06		Setup a file system consistent of: 1 node: MGS/MDS 1 node: OSS should have 2 IP addresses 1 node: Client Mount the File System and the client Use only one of the IP addresses on the OSS Disable the dynamic_nids feature on the client but disable it on the MDS Write multiple files to the FS Read back the files and make sure they are correct unmount the OSS and remove lustre modules Change the OSS configuration to use the other IP address for NID load lustre on the OSS and re mount LS the file system. the metadata might be cached on the client and the LS could work Writing to the FS should timeout and fail.
test_dynamic_nids_07	LU-10360-08		1. Configure an MGS/OSS servers on tcp network and mount them 2. Configure a client node on the tcp441 network 3. Dynamically add a new network to all the servers: lnetctl net add --net tcp441 --if eth0 4. Disable dynamic discovery on the client. 5. Mount the client. Client mount should succeed 6. Do a read/write from the client to verify it works. 7. Unmount the client 8. Remove all Lustre modules from the client.
test_dynamic_nids_08	LU-10360-09		1. Configure an MGS/OSS servers on tcp network and mount them 2. Disable discovery on the servers. 2. Configure a client node on the tcp441 network 3. Dynamically add a new network to all the servers: lnetctl net add --net tcp441 --if eth0 4. Mount the client. Client mount should fail 5. Repeat the test once with discovery enabled on the client and once with discovery disabled on the client.
test_dynamic_nids_09	LU-10360-10		1. Configure an MGS/OSS servers on tcp network and mount them 2. Configure a client node on the tcp network 3. Enable debug=-1 on the client. 4. Dynamically add a new network to all the servers: lnetctl net add --net tcp441 --if eth0 5. sleep for 10 seconds and then capture the log. 6. Search for "dynamic NID entry" from the function mgc_apply_recover_logs(). There should be an entry for each of the servers NIDs on tcp441 7. Dynamicall delete the NID from the servers lnetctl net del --net tcp441 --if eth0 8. Sleep 10 seconds then capture the log. 9. We should see the updated IR log entry via the message above, and there shouldn't be any entries for tcp441
test_dynamic_nids_01	LU-10360-01	LU-10360-02	On the client and on the MDS lctl set_param mgc.*.dynamic_nids=1 lctl get_param mgc.*.dynamic_nids Check the value is 1 On the client and on the MDS lctl set_param mgc.*.dynamic_nids=0 lctl get_param mgc.*.dynamic_nids Check the value is 0

test_dynamic_nids_02	LU-10360-03		Setup a file system consistent of: 1 node: MGS/MDS 1 node: OSS should have 2 IP addresses 1 node: Client Mount the File System and the client Use only one of the IP addresses on the OSS Enable the dynamic_nids feature on both the MDS and the client Write multiple files to the FS Read back the files and make sure they are correct unmount the OSS and remove lustre modules Change the OSS configuration to use the other IP address for NID load lustre on the OSS and re mount LS the file system. We should get the exact same list of files Write more files and read them back. the write/read operation should succeed
test_dynamic_nids_03	LU-10360-05		Setup a file system consistent of: 1 node: MGS/MDS 1 node: OSS should have 2 IP addresses 1 node: Client Mount the File System and the client Use only one of the IP addresses on the OSS Disable the dynamic_nids feature on both the MDS and the client Write multiple files to the FS Read back the files and make sure they are correct unmount the OSS and remove lustre modules Change the OSS configuration to use the other IP address for NID load lustre on the OSS and re mount LS the file system. the metadata might be cached on the client and the LS could work Writing to the FS should timeout and fail.