

My EMC Fibre Zone 1.1 (Fzone & Volume Logix) notes

```
Interface.....: ed1032
IP Address of Connectrix Service Processor...: IP???
WWN of Director 0 (use advance button).....: WWN???
WWN of Director 1 (use advance button).....: WWN???
IP Address of Director 0 (if not private)....: IP???
IP Address of Director 1 (if not private)....: IP???
```

Whenever a **Member** (e.g. HBA or FA N_Port) is attached to a **Unit** (e.g. a Switch such as an EMC ed1032 director) that does not have a Zone Set defined on it, that Member will attempt to login to all other ports attached to that Unit. That is because there are no defined rules (Zone/Zone Set), to indicate which ports are allowed communicate with one another for that Unit. Thus, it becomes a "free for all" environment, where any attached Port can, and will, attempt a login to all other attached ports.

To prevent this time consuming (not to mention un-secure) discovery process from occurring, a specialized Zone Set, called a **Blocking Zone Set**, is created and initially applied to the Unit, **before** other Members are physically connected to that Unit. A **Blocking Zone Set** is a Zone Set comprised simply of one single Member Zone. A Blocking Zone Set, when applied to a Unit, defines the rules of communications between ports attached to that Unit; and because no other Port attached to the Unit in the future will be a Member of that active (Blocking) Zone Set, they will not be allowed to initiate a discovery process.

We create the Blocking Zone Set here:

```
root# fzone unit -create -name unit_name -interface interface_name \
      -o connection_data -assign blocking_zone_set

root# fzone fabric -enable unit name
```

Note: Generic (non vendor specific) command form.

To determine what FibreZone software interface is available, execute the following command:

```
fzone interface -list
```

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Configuring a new ed1032 Switch (Unit).

Step1: Construct the blocking Zone, define a Unit (Connectrix director), and assign the blocking zone to it.

```
# Create a Member that will be used in the Blocking Zone Set.

root# fzone member -create -name block_MEMBER \
    -wwn 01:01:01:01:01:01:01:01

# Create a single member Blocking Zone, containing the Member
# created previously.

root# fzone zone -create -name block_ZONE block_MEMBER

# Create a single Zone Blocking Zone Set, containing the Zone created
# previously.

root# fzone Zone_set -create -name blocking_ZONESET block_ZONE

# Create a Unit, and simultaneously assign the Blocking Zone Set
# to it.

root# fzone unit -create -name ctx0dir0_UNIT -interface ed1032 \
    -o ip=service_processor_ip, wwn=wwn_of_ed1032_director \
    -assign blocking_ZONESET

# Enable the Zone Set by enabling the Unit.

root# fzone fabric -enable ctx0dir0_UNIT
```

Step2: Physically attach the rest of the nodes (N Ports) to the switch ports, and discover/verify the WWN's that log in.

```
root# fzone unit -info ctx0dir0_UNIT -online
```

Create the blocking zone set on each ed1032 director

```
fzone member -create -name block_MEMBER -wwn 01:01:01:01:01:01:01:01
fzone zone -create -name block_ZONE block_MEMBER
fzone Zone_set -create -name blocking_ZONESET block_ZONE
fzone unit -create -name ctx0dir0_UNIT -interface ed1032 \
-o ip=service_processor_ip,wwn=wwn_of_ed1032_director0 \
-assign blocking_ZONESET
fzone unit -create -name ctx0dir1_UNIT -interface ed1032 \
-o ip=service_processor_ip,wwn=wwn_of_ed1032_director1 \
-assign blocking_ZONESET
fzone fabric -enable ctx0dir0_UNIT
fzone fabric -enable ctx0dir1_UNIT
```

-OR- (if E_Ports between Directors will create a Meta Unit)

```
fzone unit -create -name ctx0dir0_UNIT -interface ed1032 \
-o ip=service_processor_ip,wwn=wwn_of_ed1032_director0
fzone unit -create -name ctx0dir1_UNIT -interface ed1032 \
-o ip=service_processor_ip,wwn=wwn_of_ed1032_director1
fzone unit -create -name ctx0_meta -meta ctx0dir0_UNIT,ctx0dir1_UNIT \
-assign blocking_ZONESET
fzone fabric -enable ctx0_meta
fzone unit -info ctx0dir0_UNIT -online
fzone unit -info ctx0dir1_UNIT -online
```

Create Members

```
fzone member -create -name Symm0629_FA3a -wwn 50060482c093b542
fzone member -create -name Symm0629_FA3b -wwn 50060482c093b552
fzone member -create -name Symm0629_FA14a -wwn 50060482c093b54d
fzone member -create -name Symm0629_FA14b -wwn 50060482c093b55d
fzone member -create -name Symm0629_FA4a -wwn 50060482c093b543
fzone member -create -name Symm0629_FA4b -wwn 50060482c093b553
fzone member -create -name Symm0629_FA13a -wwn 50060482bfd0d00c
fzone member -create -name Symm0629_FA13b -wwn 50060482bfd0d01c

fzone member -create -name Symm1056_FA3a -wwn 50060482bfd0d002
fzone member -create -name Symm1056_FA3b -wwn 50060482bfd0d012
fzone member -create -name Symm1056_FA14a -wwn 50060482bfd0d00d
fzone member -create -name Symm1056_FA14b -wwn 50060482bfd0d01d
fzone member -create -name Symm1056_FA4a -wwn 50060482bfd0d003
fzone member -create -name Symm1056_FA4b -wwn 50060482bfd0d013

fzone member -create -name SUN_oprd1_Sbus1-0 -wwn 200000e06940e784
fzone member -create -name SUN_oprd1_Sbus3-0 -wwn 200000e06940ce58
fzone member -create -name SUN_oprd2_Sbus1-0 -wwn 200000e06940e268
fzone member -create -name SUN_oprd2_Sbus3-0 -wwn 200000e06940dfbd
fzone member -create -name SUN_orep1_PCI0 -wwn TBD
fzone member -create -name SUN_orep2_PCI0 -wwn TBD

fzone member -create -name SUN_emc1_PCI0 -wwn TBD
fzone member -create -name SUN_emc2_PCI0 -wwn TBD
```

Create Single HBA Zones

```
fzone zone -create -name Symm1056_FA3a-SUN_emc1_PCI0 Symm1056_FA3a,SUN_emc1_PCI0
fzone zone -create -name Symm1056_FA14b-Symm0629_FA14b Symm1056_FA14b,Symm0629_FA14b
fzone zone -create -name Symm0629_FA3a-SUN_oprd1_Sbus1-0 Symm0629_FA3a,SUN_oprd1_Sbus1-0
fzone zone -create -name Symm0629_FA3a-SUN_oprd2_Sbus1-0 Symm0629_FA3a,SUN_oprd2_Sbus1-0
fzone zone -create -name Symm0629_FA3a-SUN_emc1_PCI0 Symm0629_FA3a,SUN_emc1_PCI0
fzone zone -create -name Symm0629_FA4a-SUN_orep1_PCI0 Symm0629_FA4a,SUN_orep1_PCI0

fzone zone -create -name Symm1056_FA14a-SUN_emc2_PCI0 Symm1056_FA14a,SUN_emc2_PCI0
fzone zone -create -name Symm1056_FA3b-Symm0629_FA3b Symm1056_FA3b,Symm0629_FA3b
fzone zone -create -name Symm0629_FA14a-SUN_oprd1_Sbus3-0 Symm0629_FA14a,SUN_oprd1_Sbus3-0
fzone zone -create -name Symm0629_FA14a-SUN_oprd2_Sbus3-0 Symm0629_FA14a,SUN_oprd2_Sbus3-0
fzone zone -create -name Symm0629_FA14a-SUN_emc2_PCI0 Symm0629_FA14a,SUN_emc2_PCI0
fzone zone -create -name Symm0629_FA13a-SUN_orep2_PCI0 Symm0629_FA13a,SUN_orep2_PCI0
```

Create and Assign a Zone Set for Director 0 (assumes no MetaUnit)

```
fzone Zone_set -create -name PROD_ZoneSet_ctx0dir0_v1 Symm1056_FA3a-SUN_emc1_PCI0,\
Symm1056_FA14b-Symm0629_FA14b,\
Symm0629_FA3a-SUN_oprd1_Sbus1-0,\
Symm0629_FA3a-SUN_oprd2_Sbus1-0,\
Symm0629_FA3a-SUN_emc1_PCI0,\
Symm0629_FA4a-SUN_orep1_PCI0

fzone unit -assign ctx0dir0_UNIT PROD_ZoneSet_ctx0dir0_v1
fzone fabric -refresh ctx0dir0_UNIT
```

Create and Assign a Zone Set for Director 1 (assumes no MetaUnit)

```
fzone Zone_set -create -name PROD_ZoneSet_ctx0dir1_v1 Symm1056_FA14a,SUN_emc2_PCI0,\
Symm1056_FA3b,Symm0629_FA3b,\
Symm0629_FA14a,SUN_oprd1_Sbus3-0,\
Symm0629_FA14a,SUN_oprd2_Sbus3-0,\
Symm0629_FA14a,SUN_emc2_PCI0,\
Symm0629_FA13a,SUN_orep2_PCI0

fzone unit -assign ctx0dir1_UNIT PROD_ZoneSet_ctx0dir1_v1
fzone fabric -refresh ctx0dir1_UNIT
```

-OR- (if E_Ports between Directors will create a Meta Unit)

Create and Assign a Zone Set for Director 0 & 1 as a Meta Unit

```
fzone Zone_set -create -name PROD_ZoneSet_v1 Symm1056_FA3a-SUN_emc1_PCI0,\
Symm1056_FA14b-Symm0629_FA14b,\
Symm0629_FA3a-SUN_oprd1_Sbus1-0,\
Symm0629_FA3a-SUN_oprd2_Sbus1-0,\
Symm0629_FA3a-SUN_emc1_PCI0,\
Symm0629_FA4a-SUN_orep1_PCI0,\
Symm1056_FA14a,SUN_emc2_PCI0,\
Symm1056_FA3b,Symm0629_FA3b,\
Symm0629_FA14a,SUN_oprd1_Sbus3-0,\
Symm0629_FA14a,SUN_oprd2_Sbus3-0,\
Symm0629_FA14a,SUN_emc2_PCI0,\
Symm0629_FA13a,SUN_orep2_PCI0
```

```
fzone unit -assign ctx0_meta PROD_ZoneSet_v1
fzone fabric -refresh ctx0_meta
```