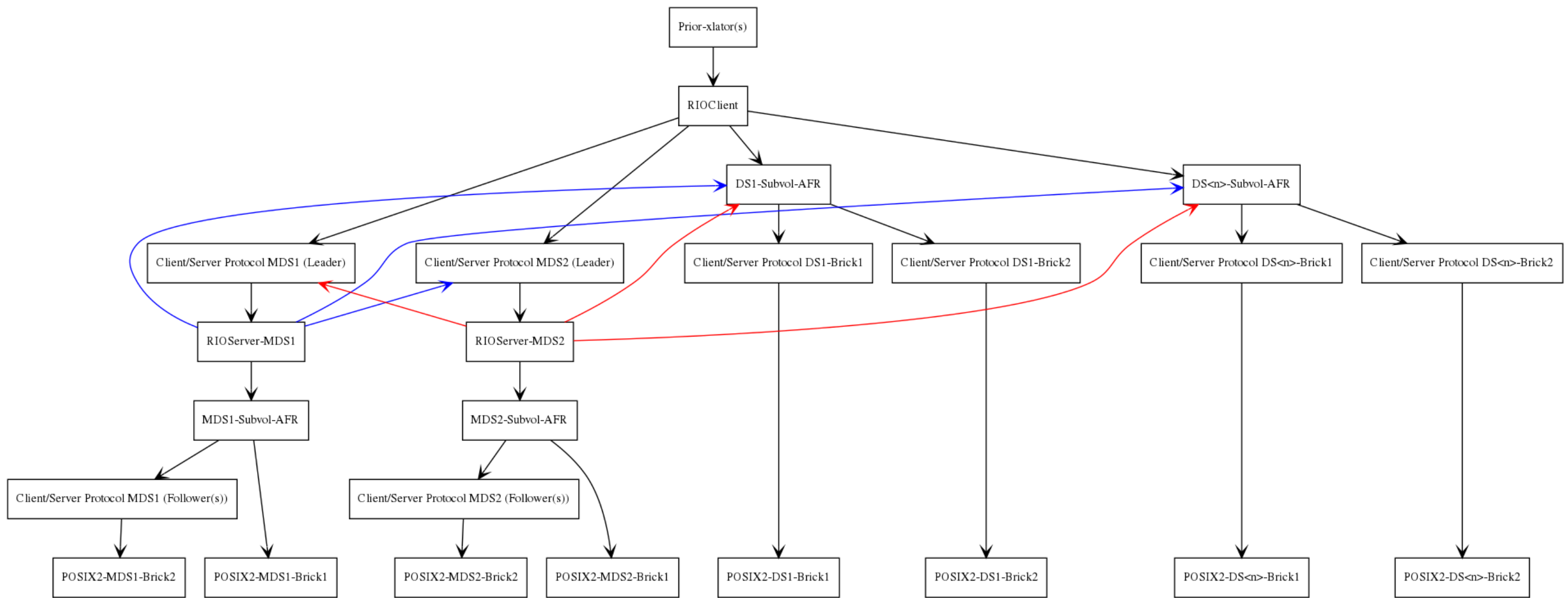




RIO Volume graph: Distribute-Replicate on MDC and DC

Generated using <http://www.graphviz.org/content/dot-language>

Dot file:

```

digraph GRAPH_0 {
    label="RIO Volume graph: Distribute-Replicate on MDC and DC";
    edge [arrowhead=open];
    node [shape=box,fontsize=11];

    /* Declaring all nodes up front for grouping */
    "Prior-xlator(s)";
    RIOClient;
    {
        rank = same;
        "DS1-Subvol-AFR" [group = "g3"];
        "DS<n>-Subvol-AFR" [group = "g4"];
    }
    {
        rank = same;
        "Client/Server Protocol MDS1 (Leader)";
        "Client/Server Protocol MDS2 (Leader)";
        "Client/Server Protocol MDS1 (Follower(s))";
        "Client/Server Protocol MDS2 (Follower(s))";
        "Client/Server Protocol DS1-Brick1";
        "Client/Server Protocol DS1-Brick2";
        "Client/Server Protocol DS<n>-Brick1";
        "Client/Server Protocol DS<n>-Brick2";
    }
    {
        rank = same;
        "RIOServer-MDS1";
        "RIOServer-MDS2";
        "MDS1-Subvol-AFR";
        "MDS2-Subvol-AFR";
        "POSIX2-MDS1-Brick2";
        "POSIX2-MDS1-Brick1";
        "POSIX2-MDS2-Brick2";
        "POSIX2-MDS2-Brick1";
        "POSIX2-DS1-Brick1";
        "POSIX2-DS1-Brick2";
        "POSIX2-DS<n>-Brick1";
        "POSIX2-DS<n>-Brick2";
    }
}

```

```

"Client/Server Protocol MDS1 (Leader)" [group = "g1"];
"Client/Server Protocol MDS2 (Leader)" [group = "g2"];
"Client/Server Protocol DS1-Brick1" [group = "g3"];
"Client/Server Protocol DS1-Brick2" [group = "g3"];
"Client/Server Protocol DS<n>-Brick1" [group = "g4"];
"Client/Server Protocol DS<n>-Brick2" [group = "g4"];
}
{
rank=same;
"RIOServer-MDS1" [group = "g1"];
"RIOServer-MDS2" [group = "g2"];
}
{
rank=same;
"MDS1-Subvol-AFR" [group = "g1"];
"MDS2-Subvol-AFR" [group = "g2"];
}
{
rank=same;
"Client/Server Protocol MDS1 (Follower(s))" [group = "g1"];
"Client/Server Protocol MDS2 (Follower(s))" [group = "g2"];
}
{
rank=same;
"POSIX2-MDS1-Brick1" [group = "g1"];
"POSIX2-MDS1-Brick2" [group = "g1"];
"POSIX2-MDS2-Brick1" [group = "g2"];
"POSIX2-MDS2-Brick2" [group = "g2"];
"POSIX2-DS1-Brick1" [group = "g3"];
"POSIX2-DS1-Brick2" [group = "g3"];
"POSIX2-DS<n>-Brick1" [group = "g4"];
"POSIX2-DS<n>-Brick2" [group = "g4"];
}

```

/* Detailing the node relationships */

```

"Prior-xlator(s)" -> RIOClient;
RIOClient -> "Client/Server Protocol MDS1 (Leader)";
RIOClient -> "Client/Server Protocol MDS2 (Leader)";
RIOClient -> "DS1-Subvol-AFR";
RIOClient -> "DS<n>-Subvol-AFR";

```

```

"Client/Server Protocol MDS1 (Leader)" -> "RIOServer-MDS1";
"Client/Server Protocol MDS2 (Leader)" -> "RIOServer-MDS2";

```

```

"DS1-Subvol-AFR" -> "Client/Server Protocol DS1-Brick1";
"DS1-Subvol-AFR" -> "Client/Server Protocol DS1-Brick2";

```

```

"DS<n>-Subvol-AFR" -> "Client/Server Protocol DS<n>-Brick1";
"DS<n>-Subvol-AFR" -> "Client/Server Protocol DS<n>-Brick2";

"RIOServer-MDS1" -> "MDS1-Subvol-AFR";
"RIOServer-MDS2" -> "MDS2-Subvol-AFR";

"MDS1-Subvol-AFR" -> "POSIX2-MDS1-Brick1";
"MDS1-Subvol-AFR" -> "Client/Server Protocol MDS1 (Follower(s))"

"MDS2-Subvol-AFR" -> "POSIX2-MDS2-Brick1";
"MDS2-Subvol-AFR" -> "Client/Server Protocol MDS2 (Follower(s))"

"Client/Server Protocol MDS1 (Follower(s))" -> "POSIX2-MDS1-Brick2"
"Client/Server Protocol MDS2 (Follower(s))" -> "POSIX2-MDS2-Brick2"

"RIOServer-MDS1" -> "Client/Server Protocol MDS2 (Leader)" [color="blue"];
"RIOServer-MDS1" -> "DS1-Subvol-AFR" [color="blue"];
"RIOServer-MDS1" -> "DS<n>-Subvol-AFR" [color="blue"];
"RIOServer-MDS2" -> "Client/Server Protocol MDS1 (Leader)" [color="red"];
"RIOServer-MDS2" -> "DS1-Subvol-AFR" [color="red"];
"RIOServer-MDS2" -> "DS<n>-Subvol-AFR" [color="red"];

"Client/Server Protocol DS1-Brick1" -> "POSIX2-DS1-Brick1";
"Client/Server Protocol DS1-Brick2" -> "POSIX2-DS1-Brick2";
"Client/Server Protocol DS<n>-Brick1" -> "POSIX2-DS<n>-Brick1";
"Client/Server Protocol DS<n>-Brick2" -> "POSIX2-DS<n>-Brick2";

/* Creating invisible node relations to enforce order in drawing */
"Client/Server Protocol MDS1 (Leader)" -> "Client/Server Protocol DS1-Brick1" [style = invis];
"Client/Server Protocol MDS1 (Leader)" -> "Client/Server Protocol DS1-Brick2" [style = invis];
"Client/Server Protocol MDS1 (Leader)" -> "Client/Server Protocol DS<n>-Brick1" [style = invis];
"Client/Server Protocol MDS1 (Leader)" -> "Client/Server Protocol DS<n>-Brick2" [style = invis];

"Client/Server Protocol MDS2 (Leader)" -> "Client/Server Protocol DS1-Brick1" [style = invis];
"Client/Server Protocol MDS2 (Leader)" -> "Client/Server Protocol DS1-Brick2" [style = invis];
"Client/Server Protocol MDS2 (Leader)" -> "Client/Server Protocol DS<n>-Brick1" [style = invis];
"Client/Server Protocol MDS2 (Leader)" -> "Client/Server Protocol DS<n>-Brick2" [style = invis];

"Client/Server Protocol MDS1 (Leader)" -> "Client/Server Protocol MDS2 (Leader)" [style = invis];

"Client/Server Protocol DS1-Brick1" -> "Client/Server Protocol DS1-Brick2" [style = invis];
"Client/Server Protocol DS<n>-Brick1" -> "Client/Server Protocol DS<n>-Brick2" [style = invis];
}

```