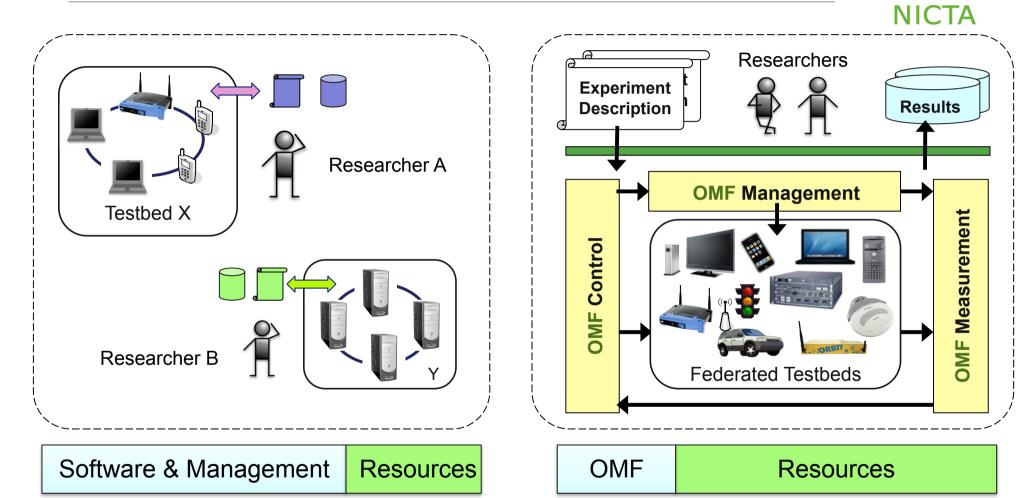
The Problem and our approach



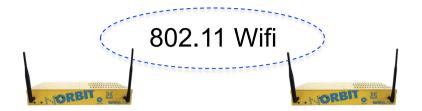


Support & share different resources Federation of different testbeds

A Simple Example – Application def.



NICTA



Traffic Generator Traffic Sink

Experiment Description

1 - Resource Description & Configuration

```
defApplication('test:app:otg2', 'otg2') do |a|
     a.path = "/usr/bin/otg2"
     a.version(1, 1, 3)
     a.shortDescription = "Programmable traffic generator v2"
     a.defProperty('generator', 'Type of generator to use (cbr or expo)',
 8
        'q', {:type => :string, :dynamic => false})
     a.defProperty('udp:dst host', 'IP address of the Destination',
 9
10
       nil, {:type => :string, :dynamic => false})
11
      . . .
12
13
     a.defMeasurement('udp out') do |m|
14
       m.defMetric('ts',:float)
       m.defMetric('seq no',:long)
15
       m.defMetric('pkt length',:long)
16
17
       m.defMetric('dst host',:string)
18
     end
19
   end
```

A Simple Example – Experiment run



04,17.2529189884663,1,17,512,'192.168.0.3',3000)

7,18.2529329955578,1,18,512,'192.168.0.3',3000); 4,19.2529599964619,1,19,512,'192.168.0.3',3000); 59,20.25293597579,1,20,512,'192.168.0.3',3000); 43,21.2529299855232,1,21,512,'192.168.0.3',3000)

07,22.2529389858246,1,22,512,'192.168.0.3',3000);



Real-time
Graph Plotting

Brought to you by the TEMPO Team

INSERT INTO "otg2_udp_out" VALUES(2,24,20.252986997366,24.525992995578,1,24,512,'192.168.0.3',3000)
INSERT INTO "otg2_udp_out" VALUES(2,24,20.252986997366,24.590982,24.2529329955578,1,24,512,'192.168.0.3',3000)
INSERT INTO "otg2_udp_out" VALUES(2,25,21.2530339956284,25.590927,25.2529329955578,1,25,512,'192.
INSERT INTO "otg2_udp_out" VALUES(2,26,22.2530419826508,26.591048,26.252936989069,1,26,512,'192.
INSERT INTO "otg2_udp_out" VALUES(2,27,23.2529789805412,7.591105,27.2529329955578,1,27,512,'192.
INSERT INTO "otg2_udp_out" VALUES(2,28,24.2530479729176,28.591181,28.25293299955578,1,29,512,'192.
INSERT INTO "otg2_udp_out" VALUES(2,30,26.2530619800091,30.59139,30.2529269754887,1,30,512,'192.
INSERT INTO "otg2_udp_out" VALUES(2,30,26.2530619800091,30.59139,30.2529269754887,1,30,512,'192.
COMMIT;

SQL-stored Measurements

This graph shows the Sequence Number from the UDP traffic.