



First Nations  
Technical Services  
Advisory Group Inc.

Digital Futures Community Panel  
March 17, 2017



# Who Are We?

- Non Profit First Nations Company
- Chiefs Steering Committee
  - Representation from all three treaty areas
- Asset Inspection
- Fire Program
- Circuit Rider Training Program
- Environmental Management
- Housing
- Youth Initiatives

# Information Technology Services

- Formed in 2008
  - Management of connections
    - Fibre build to health centre, Band Administration buildings and CFS Offices on reserve
  - Secure, high speed connectivity to over 150 sites
    - Health Centres, Nursing Stations, Treatment Centres, FN Schools, Child and Family Services
  - State of the art Network Operations Centre
    - Maintains network security and critical infrastructure
    - Traffic shaping and security
    - Enables secure EMR/EHR use at First Nation Health Centres

# Information Technology Services

### All Nodes

GROUPED BY VENDOR, STATUS

MANAGE NODES EDIT HELP

Up  
Down

### All Triggered Alerts

ALL TRIGGERED ALERTS

EDIT HELP

TIME OF ALERT	NETWORK DEVICE	CURRENT VALUE	MESSAGE
10/3/2009 01:10 AM	Alxndr01		Alert me when a node goes down
9/29/2009 03:30 AM	Alxndr01		High Packet Loss Monitoring

### Event Summary

TODAY

EDIT HELP

- 11 Alert Triggered
- 11 Alert Reset

### Network Map

EDIT HELP

Do not forget alerts! Alerts is more than the map. It's a complex system with many nodes and connections. It's a complex system with many nodes and connections.

Download Network Atlas to edit your map.

### Search Nodes

EDIT HELP

Find  Search By

Node Name

Examples: Cisco\*, 10.15.\*, Windows, Server\*, \*SolarWinds.Net

### Last 25 Events

LAST 12 MONTHS

EDIT HELP

- 10/6/2009 5:30 AM Node Ench01's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 5:22 AM Node Ench01's packet loss has risen above 40% to 30 %.
- 10/6/2009 5:03 AM Node Ench01's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 4:55 AM Node Ench01's packet loss has risen above 40% to 30 %.
- 10/6/2009 4:52 AM Node Ench01's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 4:34 AM Node Ench01's packet loss has risen above 40% to 20 %.
- 10/6/2009 3:36 AM Node Ench01's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 3:26 AM Node Ench01's packet loss has risen above 40% to 20 %.
- 10/6/2009 2:10 AM Node Sdill02's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 2:04 AM Node Fxll02's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 2:03 AM Node Sdill02's packet loss has risen above 40% to 20 %.
- 10/6/2009 1:55 AM Node Ench01's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 1:53 AM Node Fxll02's packet loss has risen above 40% to 20 %.
- 10/6/2009 1:44 AM Node Ench01's packet loss has risen above 40% to 20 %.
- 10/6/2009 1:35 AM Node Sdill02's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 1:32 AM Node Ench01's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 1:30 AM Node Sdill02's packet loss has dropped from above 40% to below 5% and is currently 0 %.
- 10/6/2009 1:27 AM Node Sdill02's packet loss has risen above 40% to 30 %.

**Real Time Monitoring of Network Status**

# Information Technology Services

- Fibre Project
  - 3 pilot communities in 2015/16
  - Building Canada Infrastructure Fund
  - Purchase larger pools of bandwidth
  - 10x faster connections to schools
    - Fully functional April/May 2017

# Information Technology Services

- Arrow Technology Group
  - First Nations Owned ISP
  - 104+ Towers on reserve in AB
  - 3000+ residential and business customers
  - Revenue back to First Nations