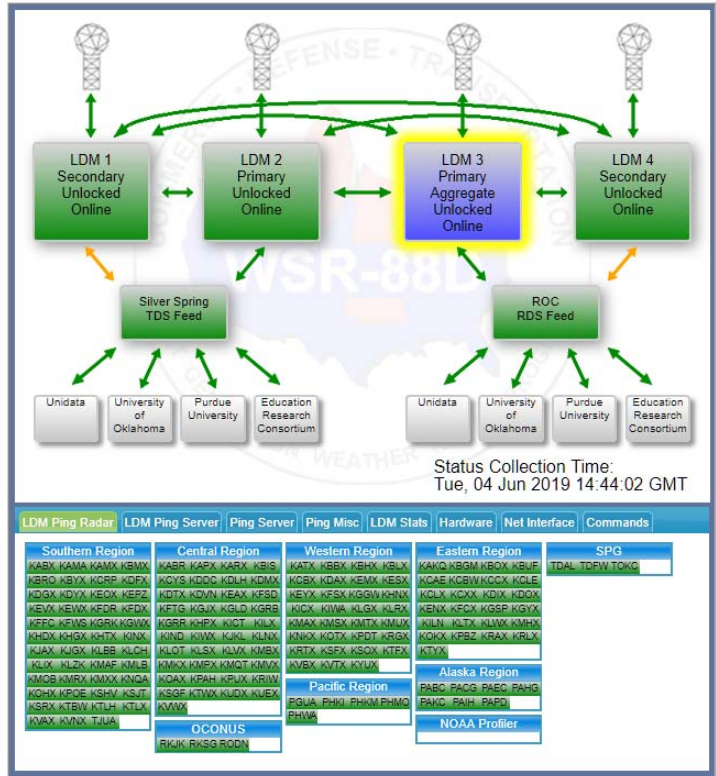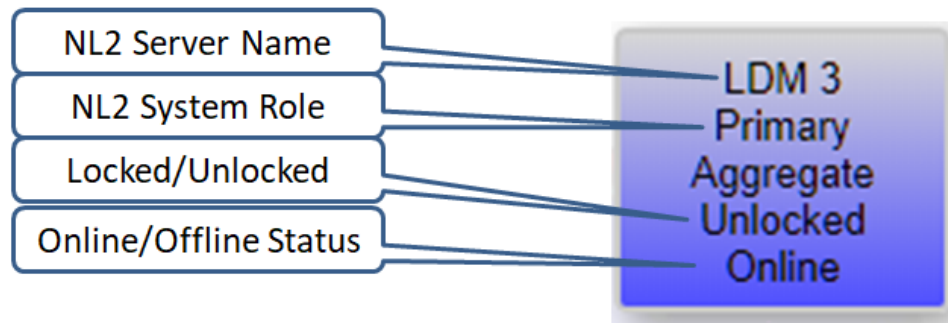# The Server View

Server View Summary

The Server View display is broken into two separate areas. The upper field is a graphical representation of the NL2 servers and the communications status between units. Green boxes or arrows represent a full operational condition. A yellow arrow is possible. Yellow arrow is ping or ldm ping has failed. Red means both ping and ldm ping has failed. Or ldm ping or ping has failed in both directions.. The LDM processor that is performing the Aggregator role is displayed in a blue box. Yellow arrows indicate and issue with network connectivity. The arrows between the servers in the upper display represent the link status between NL2 servers. The display is updated one per minute. Any link that is down for 5 minutes will turn red. The yellow halo (or cursor) enables statistics for the selected server to populate the bottom half of the Server View display. (The bottom half of Server View is blank by default.)

The boxes on the bottom half of the display depict information derived from LDM status (not Level II data flow). The link from an individual radar site would still be displayed as green if the associated radar system is in standby or other maintenance mode indicating network connectivity is good. The "go/no-go" box therefore denotes enterprise "application layer" integrity and not data flow.

INDICATOR FIELDS (Top Half)

ROLE:

1. **AGGREGATE** - The server designated as the National Level-II aggregation server and is requesting data from each radar site. Only 1 of the 4 servers can be the AGGREGATE (although 2 servers could briefly be aggregating if roles are transitioning). Only a Primary node can be designated as AGGREGATE.
2. **PRIMARY** – The currently active server in the cluster. The primary server feeds the cluster's output server (RDS or TDS) and secondary server within the cluster. If the primary is aggregating, it also sends data to the primary in the other cluster.
3. **SECONDARY** – The hot backup within the cluster. It receives data from its cluster's primary server and takes over the primary role if it detects the current primary server is down. The secondary does not feed any other servers.
4. **???** - Server is down, offline, or in an unknown state

LOCKED: (Either **Locked** or **Unlocked**).

1. Locked – The role/aggregation state is fixed and can only be changed manually. The software will not automatically change role/aggregation state regardless of current conditions. This is set so control dataflow during maintenance activities.
2. Unlocked – The role/aggregation state can be changed automatically by the software if conditions warrant.

Status Collection Time: *(DDD:dd:mmm:yyyy:HH:MM:SS)* – Time of the Web server's most recent NL2 status update. If the data status has not updated in the last 5 update intervals, the text turns red.

LDM Ping Radar: *(LDM 1, LDM 2, LDM 3, or LDM 4)*

3. **LDM Ping Radar:** – Displays the ldmping status to each ICAO.
    a. Green – Connected (Active response from radar)
    b. Red – No longer connected (Response has timed out over the last 5 minutes.)
    c. Gray – No Data

LDM Ping Server:

4. **LDM Ping Server:** – Displays the ldmping status (Port 388) to each adjacent NL2 server attached to the selected server.

Ping Server:

5. **LDM Ping Server:** – Displays the "ICMP ping" status to each adjacent NL2 server attached to the selected server in the critical data flow path.

Ping Misc:

6. **Ping Misc:** – Displays the "ICMP ping" status to each adjacent NL2 device attached to the selected server (Gateway Routers)

LDM Stats:

7. **LDM Stats:** – Displays the LDM "On Board" status of the selected server (Up/Down, etc...)

LDM Ping Radar	LDM Ping Server	Ping Server	Ping Misc	LDM Stats	Hardware	Net Interface	Commands

Status Time: Tue, 28 Jun 2016 19:27:11 GMT	
Latest NEXRAD Product Time	Tue, 28 Jun 2016 19:16:58 GMT
Number of Bytes	-295086360
Number of Products	62822
Running	Yes

Hardware:

8. **Hardware** – Displays the hardware status of the selected server CPU Idle, I/O Utilization, Disk use, Load Averages, Memory use, and Uptime.

Status Time: Tue, 28 Jun 2016 19:29:08 GMT	
CPU Idle	N/A
CPU IO Utilization	1.65%
Disk Use	1.0%
Load Avg (1 Minute)	0.09
Load Avg (5 Minute)	1.33
Load Avg (15 Minute)	1.85
Memory Use	16.83%
Uptime	Tue, 28 Jun 2016 15:47:33 GMT

Net Interface:

9. **Net Interface** – Displays the Ethernet port statuses of the selected server (Up/Down, Transmit & Receive issues, etc...)

Status Time: Tue, 28 Jun 2016 19:34:01 GMT		
Device	Eth0	Eth1
Up	Yes	Yes
Trans Packets No Error	16451	324
Trans Packets Error	0	0
Trans Packets Dropped	0	0
Trans Packets Overrun	0	0
Recvd Packets No Error	113735	281
Recvd Packets Error	0	0
Recvd Packets Dropped	0	0
Recvd Packets Overrun	0	0

Command: *(LDM 1, LDM 2, LDM 3, or LDM 4)*

10. **Command** – Displays the last received and executed command of the selected server (NL2 "Role", Time, etc...)

Status Time: Tue, 28 Jun 2016 19:37:37 GMT	
Last Executed Command	Secondary
Last Executed Time	Tue, 28 Jun 2016 16:22:23 GMT
Last NEXRAD Data Received Time	Tue, 28 Jun 2016 19:27:11 GMT
Last Received Command	Secondary
Last Received Command Time	Tue, 28 Jun 2016 16:22:23 GMT

LDM Ping Client: *(TDS or RDS Only)*

11. **LDM Ping Client** – Displays the LDM Ping status to NL2 down stream clients.

Status Time: Tue, 04 Jun 2019 20:15:36 GMT	
University of Oklahoma	Up
Purdue University	Up
Education Research Consortium	Up
Unidata	Up
National Centers for Environmental Prediction (NCEP)	Up
Radar Operations Center ENG	Up
Central Region HQ	Up
Eastern Region HQ	Up