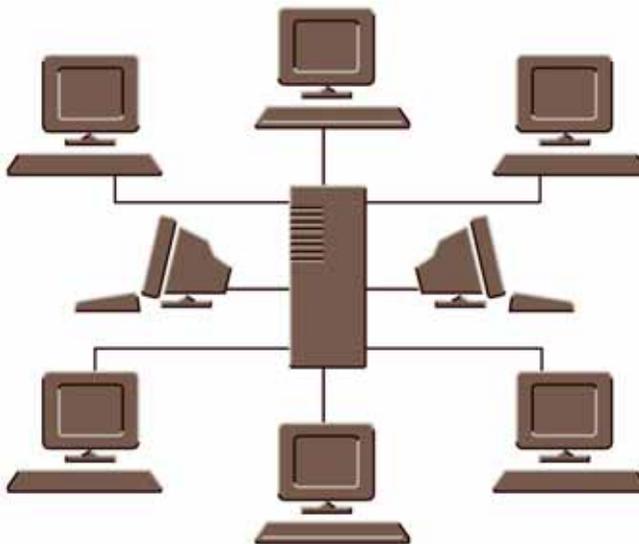


# NETS

## Network Equipment Tracking System



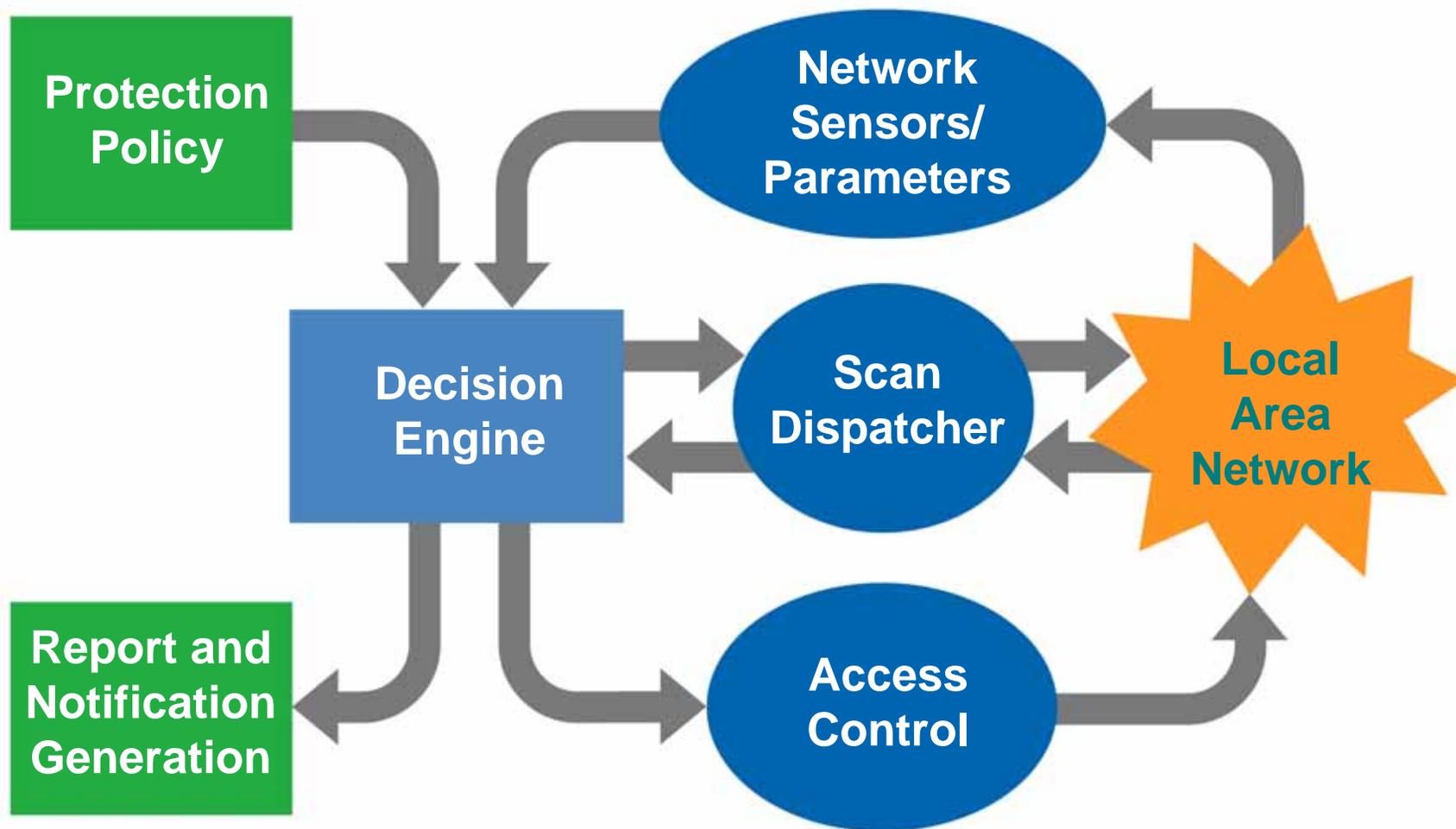
## NETS Presentation

- **Protection Concepts**
- **NETS Vision**
- **Current Implementation**
- **Future Development and Integration**

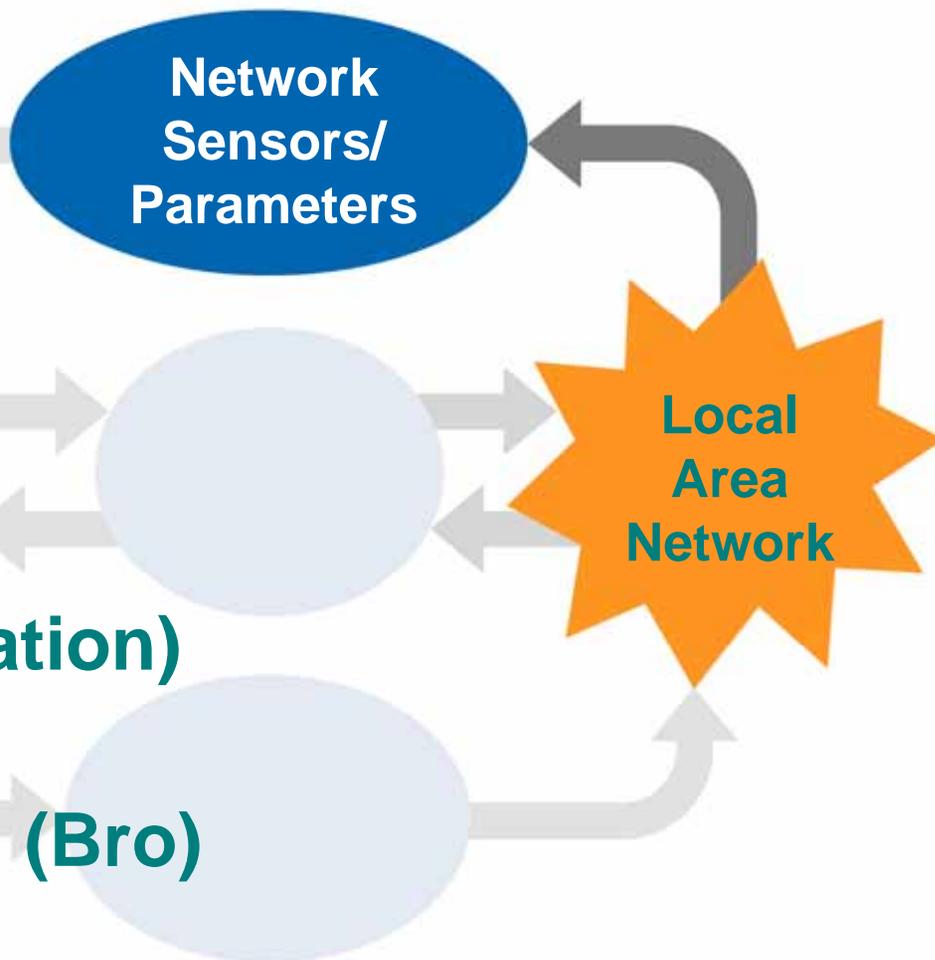
	Calendar Time	Effort
• Scan for Vulnerability	1/2 day	4 hours
• Notify System Admin	1/2 day	4 hours
• Wait	5 days	1 hours
• Scan for Vulnerability	1/2 day	4 hours
• Block	1/2 day	4 hours
<b>Totals</b>	<b>7 days</b>	<b>17 hours</b>

## Fully automated vulnerability discovery and elimination

- Network information continuously collected
- System connections are detected
- New systems scanned
- Network vulnerabilities evaluated as they appear
- Vulnerabilities blocked
- System admins automatically alerted
- Automatic block removal as vulnerabilities are fixed
- Safe systems given full access
- Internet access is maximized

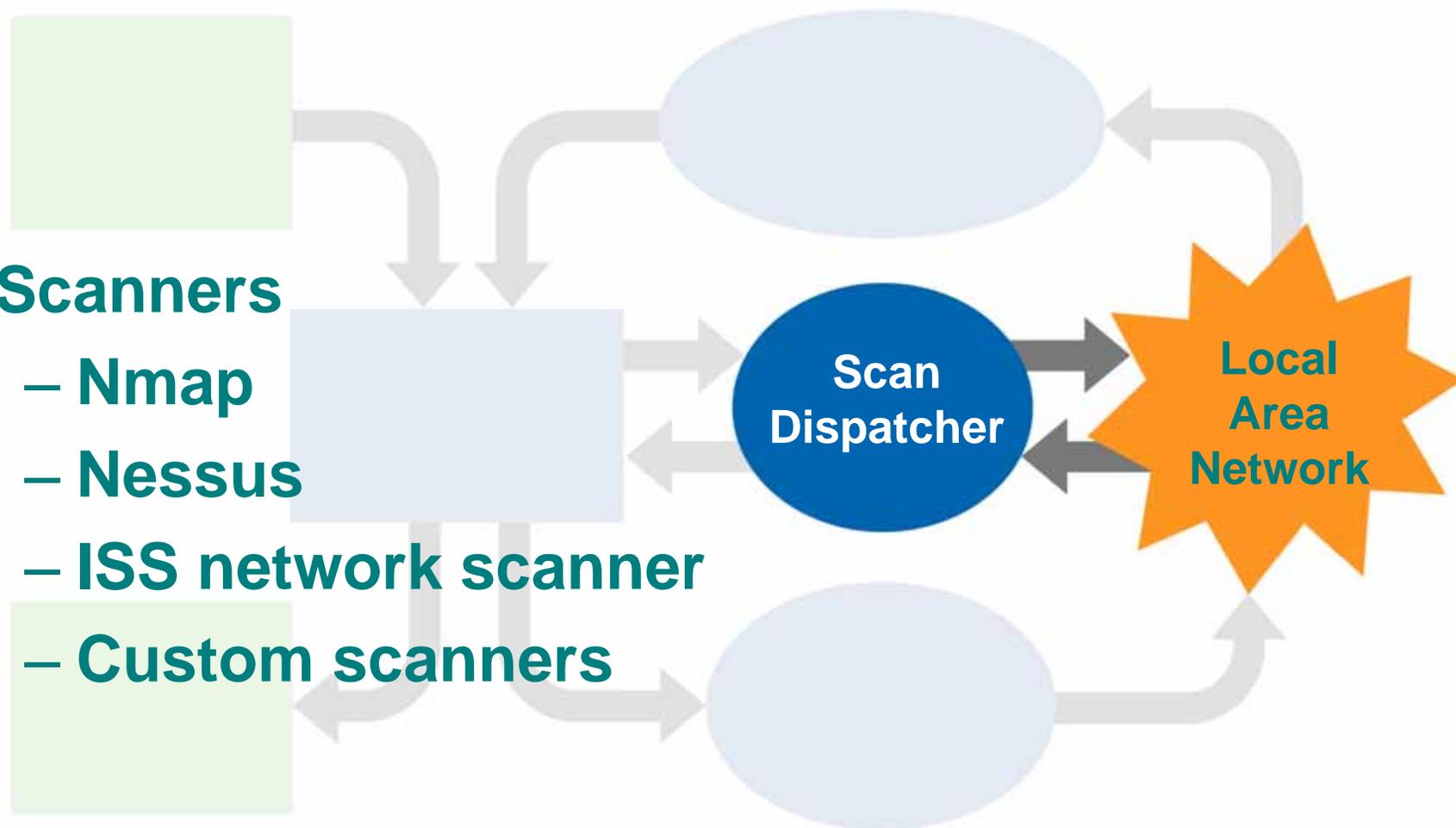


- DNS
- DHCP
- ARP data
- Router data
- NIS service
- Microsoft domain
- User input (registration)
- Network traffic
- Intrusion detection (Bro)

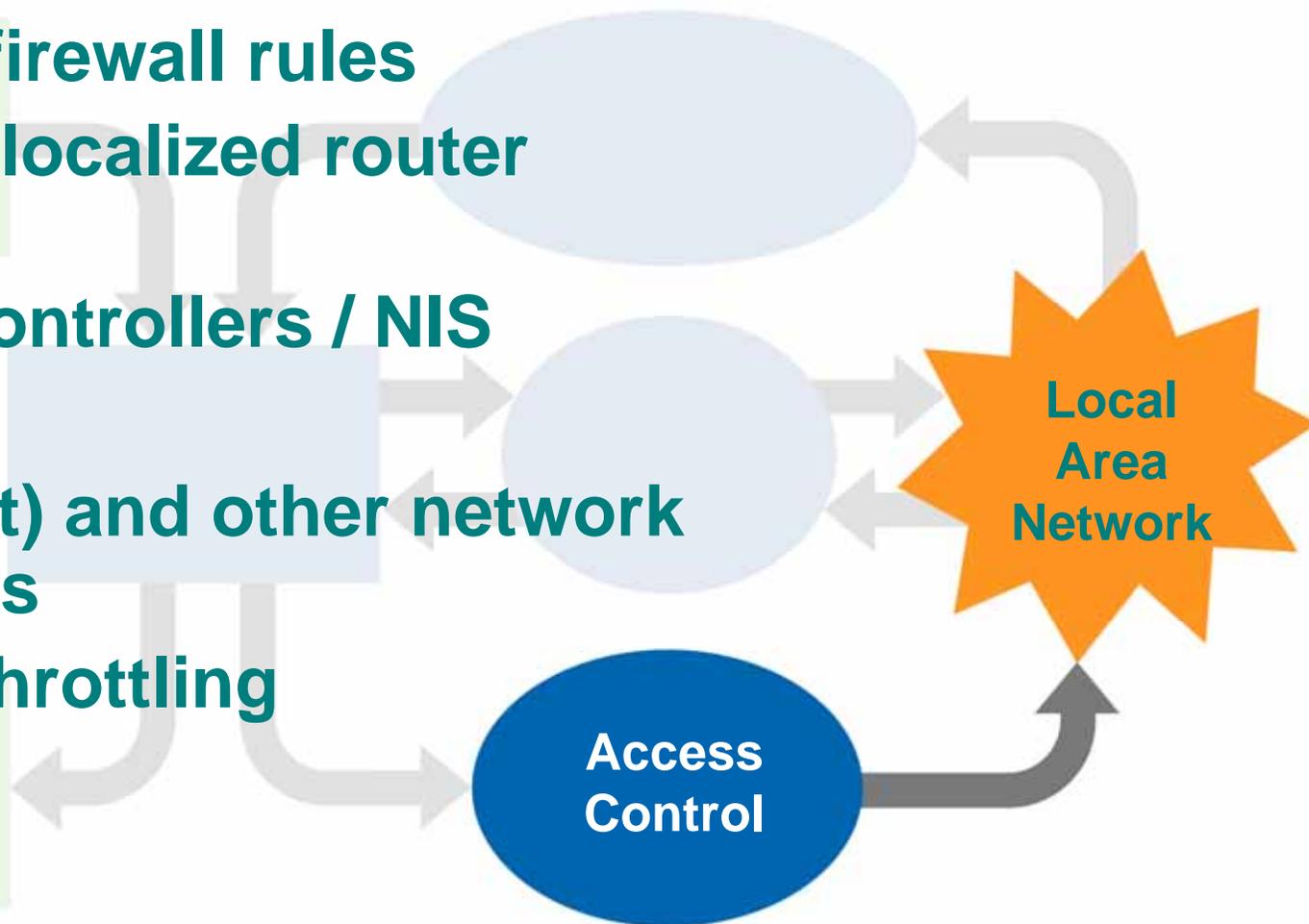


- **Scanners**

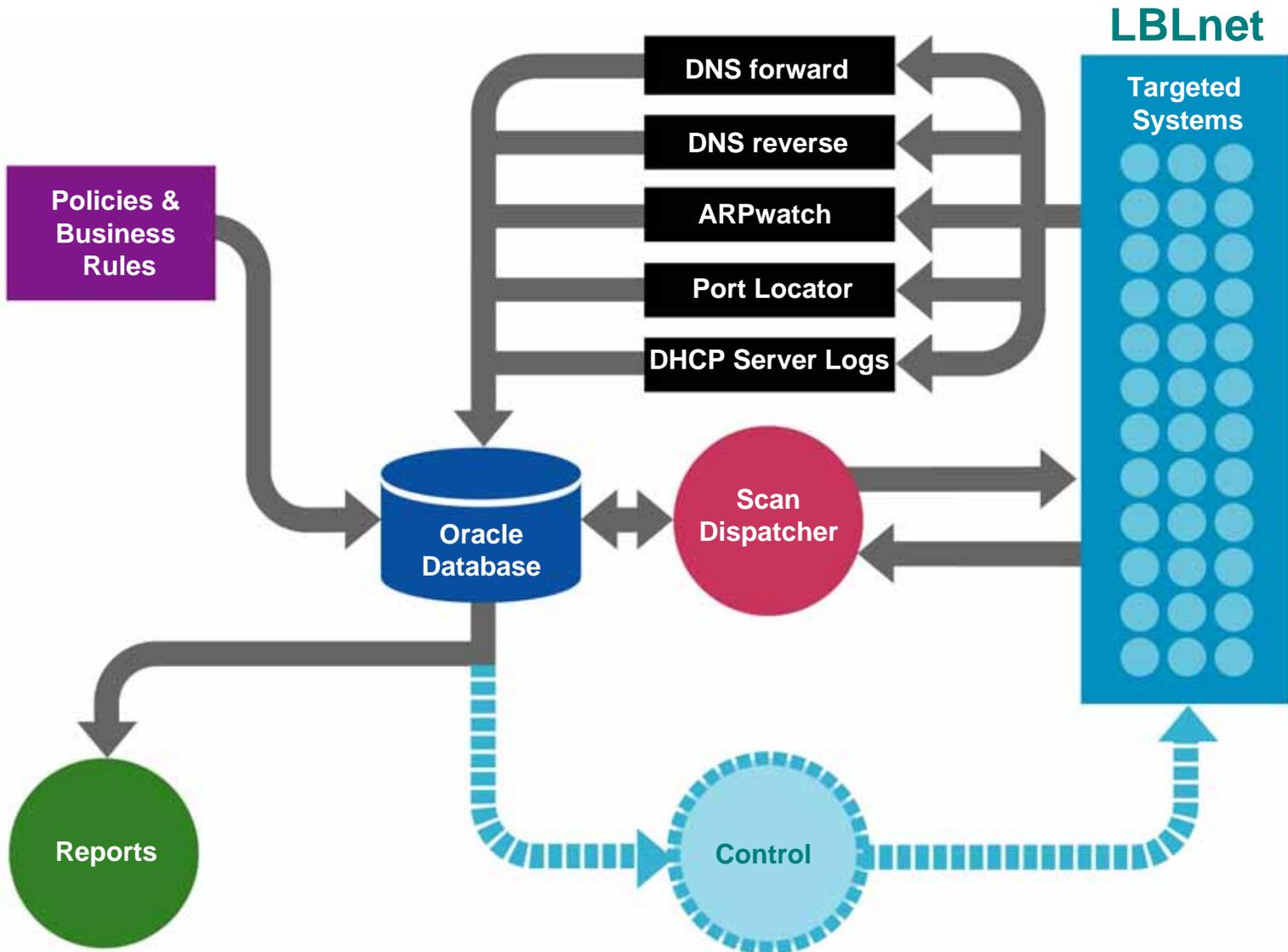
- Nmap
- Nessus
- ISS network scanner
- Custom scanners

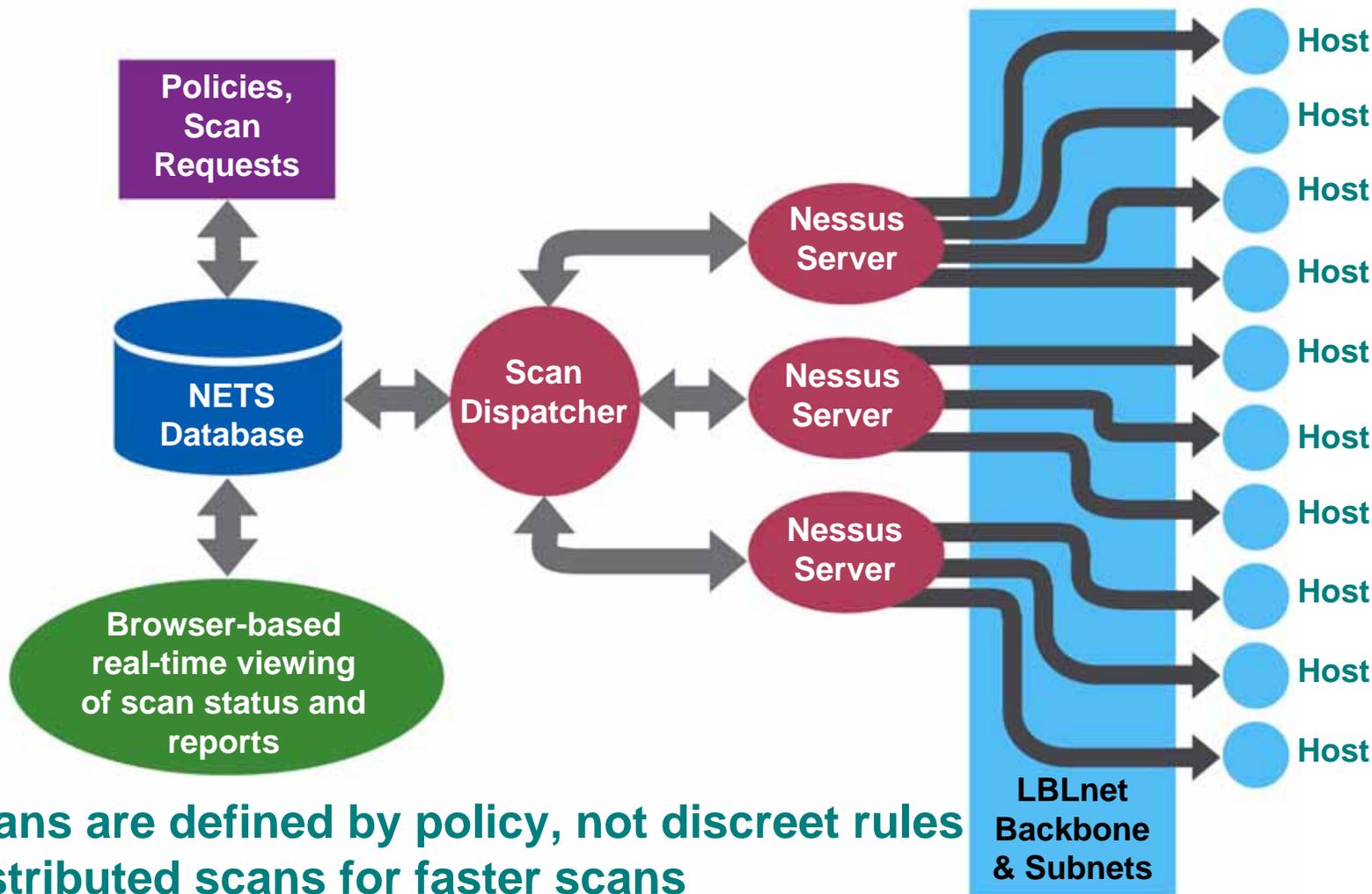


- Router access controls
- Dynamic firewall rules
- Blocks at localized router switches
- Domain controllers / NIS
- DHCP
- RST (reset) and other network commands
- Network throttling



- ✓ **Network information collected**
- ✓ **System connections are detected**
- ✓ **Systems are probed**
- **Vulnerabilities blocked**
- **Automatic block removal as vulnerabilities are fixed**





- Scans are defined by policy, not discreet rules
- Distributed scans for faster scans
- Priority setting
- Scans initiated by NETS (automatic)

- **Gathering Information**
  - Continuous load balanced scanning
  - Incorporate more sensors information
- **Access Control**
  - Active blocking at DMZ router
  - Firewall for better access control
  - Active blocking on internal routers
- **Host Inventory**
  - Network history
  - Mandatory registration
  - Host and owner certification
  - Deploy host agent software