



TRUTHSIFT ANALYSIS

BEST IOT PROTOCOL FOR SMART HOME DEVICES

Analyse which IoT protocol is best for smart home devices. We provide a breakup of different IoT protocols, where each protocol can be discussed through its own graph.

Each IoT protocol is shown by a graph

- 1. MQTT Protocol - 8 nodes
- 2. HTTP Protocol - 9 nodes
- 3. CoAP Protocol - 8 nodes

PARTICIPANTS

There were 20 participants

PROBABILITY LIKELIHOOD

Scoring Parameter(s):

- 1. Speed and Efficiency
- 2. Power Consumption
- 3. Scalability
- 4. Ease of Integration

| GRAPH | SCORE |
|------------------|-------|
| 1. MQTT Protocol | 77% |
| 2. HTTP Protocol | 75% |
| 3. CoAP Protocol | 55% |

GRAPH SNAPSHOT

MQTT Protocol

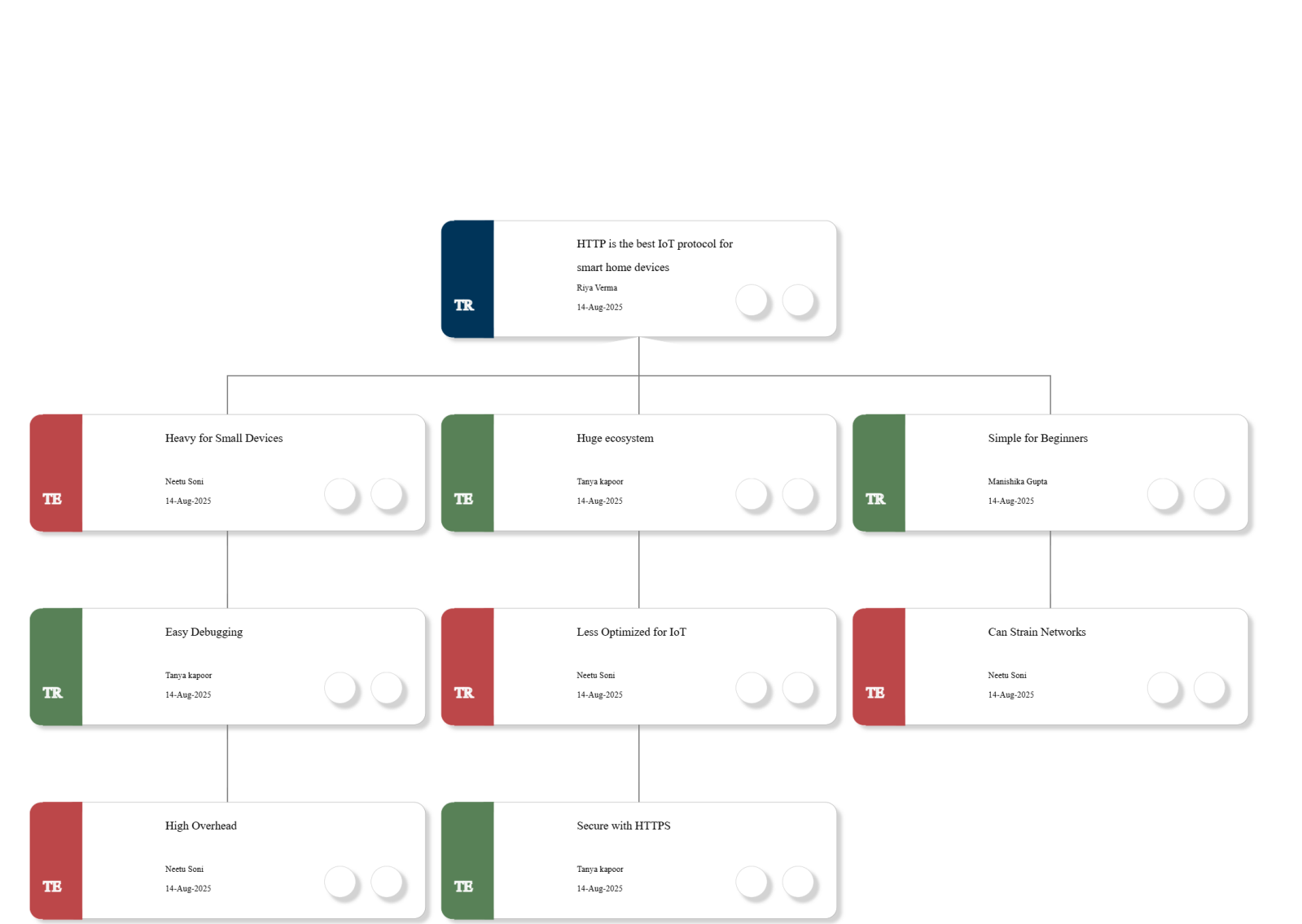
<https://app.truthsift.com/spectate/placeholder/500/17>



GRAPH SNAPSHOT

HTTP Protocol

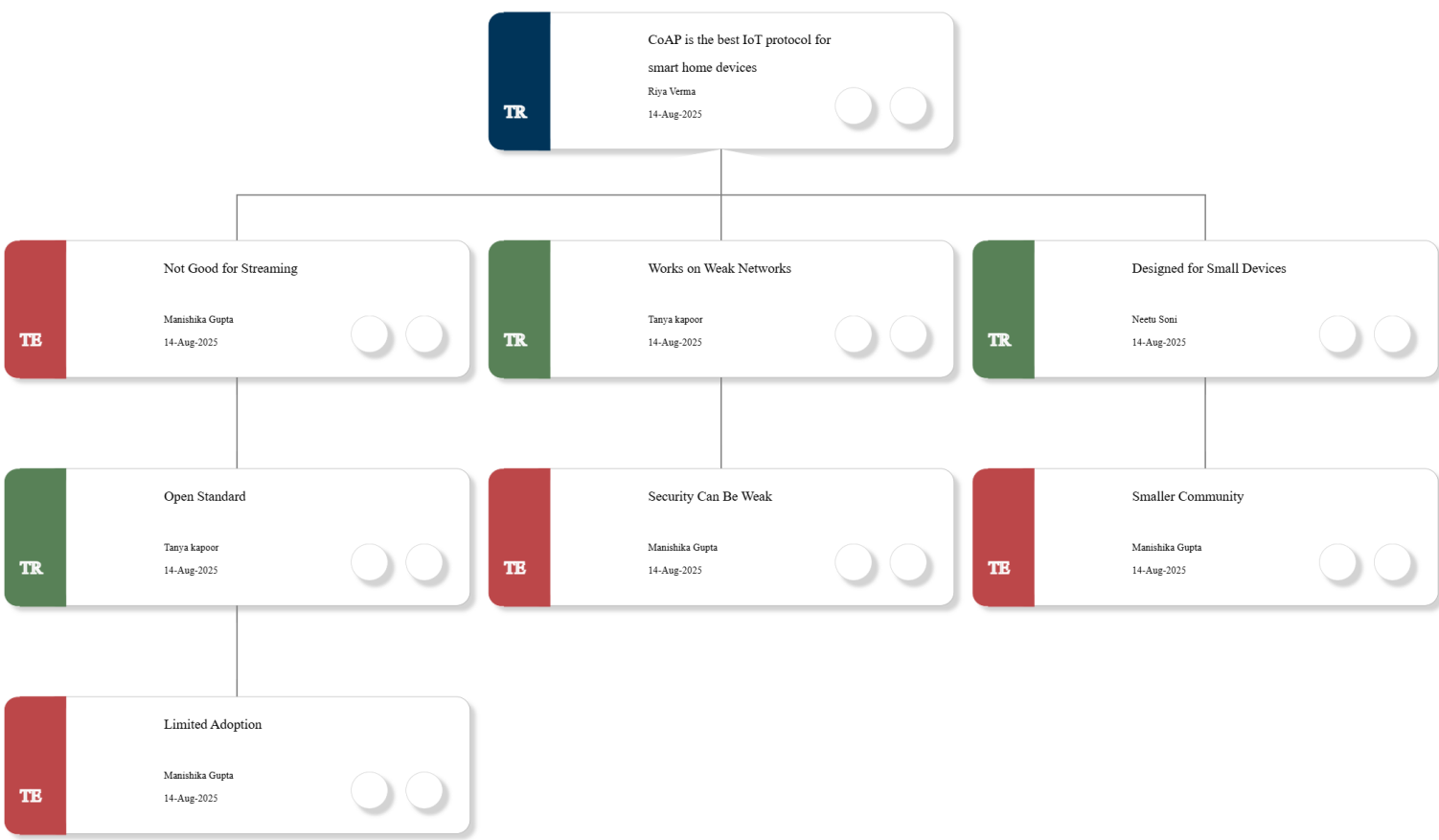
<https://app.truthsift.com/spectate/placeholder/502/17>



GRAPH SNAPSHOT

CoAP Protocol

<https://app.truthsift.com/spectate/placeholder/501/17>



OVERALL VERDICT

"XMPP Protocol - 60%
Zigbee Protocol - 80%
Z-Wave Protocol - 70%

1. Speed and Efficiency
- MQTT Protocol - 80%
 - HTTP Protocol - 70%
 - CoAP Protocol - 60%
 - XMPP Protocol - 65%
 - Zigbee Protocol - 85%
 - Z-Wave Protocol - 75%

2. Power Consumption
- MQTT Protocol - 70%
 - HTTP Protocol - 60%
 - CoAP Protocol - 80%
 - XMPP Protocol - 65%
 - Zigbee Protocol - 75%
 - Z-Wave Protocol - 70%

3. Scalability
- MQTT Protocol - 75%
 - HTTP Protocol - 70%
 - CoAP Protocol - 50%
 - XMPP Protocol - 65%
 - Zigbee Protocol - 80%
 - Z-Wave Protocol - 75%

4. Ease of Integration
- MQTT Protocol - 75%
 - HTTP Protocol - 80%
 - CoAP Protocol - 50%
 - XMPP Protocol - 60%
 - Zigbee Protocol - 70%
 - Z-Wave Protocol - 75%

Now, let's analyse each protocol based on the provided scores.

1. MQTT Protocol

The MQTT protocol scores 77% overall, with strong performance in Speed and Efficiency (80%) and Scalability (75%). It has a moderate score in Power Consumption (70%) and Ease of Integration (75%). This makes MQTT a solid choice for smart home devices that require efficient communication and scalability.

2. HTTP Protocol

The HTTP protocol has an overall score of 75%. It performs well in Ease of Integration (80%) but has lower scores in Speed and Efficiency (70%) and Power Consumption (60%). This makes HTTP suitable for applications where ease of integration is a priority, but it may not be the best choice for energy-sensitive smart home devices.

3. CoAP Protocol

The CoAP protocol scores the lowest",