

## Worklet Area- SDN| Chatbot for SDN

### Motivation

- Chatbot for Software Defined Networking in short SDN. SDN simplifies managing enterprise networks. It provides flexibility and much needed automation of network provisioning. SDN can also provide dynamic traffic routing.
- Chatbot can be used to get information related to devices that user is interested in, and also the device setup information to handle it better way.
- Deduce user intent from general statements and inquiries using advanced NLP with NLU and NLG
- Chatbot can be trained to generate the configuration that can be applied to devices.
- Ask generic questions beyond troubleshooting, like “How to setup VLAN?” and “Does AP have capacity?”
- Providing Chatbot can increase user experience and ease of handling multiple devices in simplest way.
- Chatbot can brief about the managing details in natural language.

### Business Impact

- Seamless interaction between SDN and user.
- Easy to interact and get the task done through chat.
- Value added feature which reduces dependency on UI

### Expectations

- A chatbot which will handle user queries in text format.
- Resource efficient chatbot or domain specific chatbot which can help user in managing multiple devices.
- Get real-time answers about the network in a few clicks
- Developed Chatbot should be able to integrate with SDN orchestrator with exposing REST API's
- **Target Technology**
- Python/NLP

### Training /Prerequisite

- Good knowledge of NLP/NLU/NLG
- Good hands on knowledge in data pre-processing / data generation
- ML model development

### Business Use Cases

- Efficiently coded Chatbot with good accuracy
- Natural extension of SDN orchestrator capabilities

