

# Introdução ao OpenDSS-G

#### Universidade de São Paulo

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2º Encontro do Grupo de Usuários do OpenDSS Brasil 20/01/2020

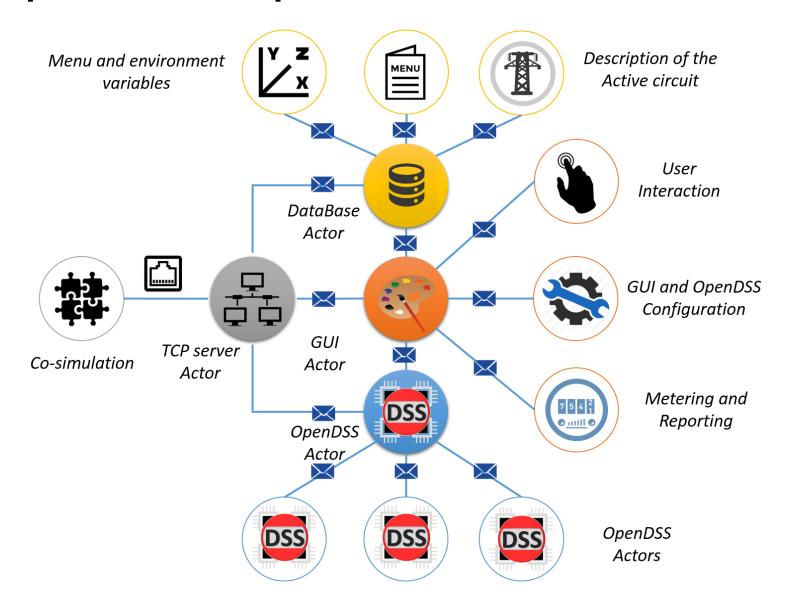




# OpenDSS-G

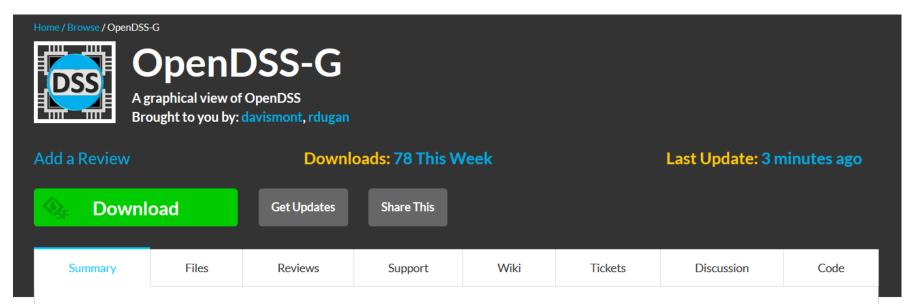


### Arquitetura do OpenDSS-G



### Download no link:

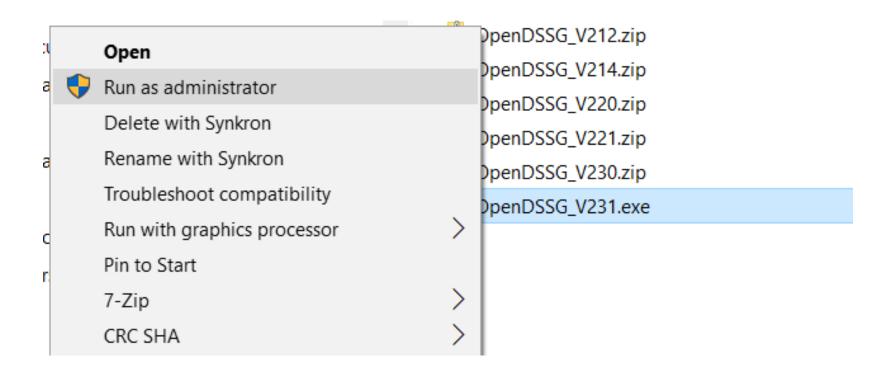
https://sourceforge.net/projects/dssimpc/



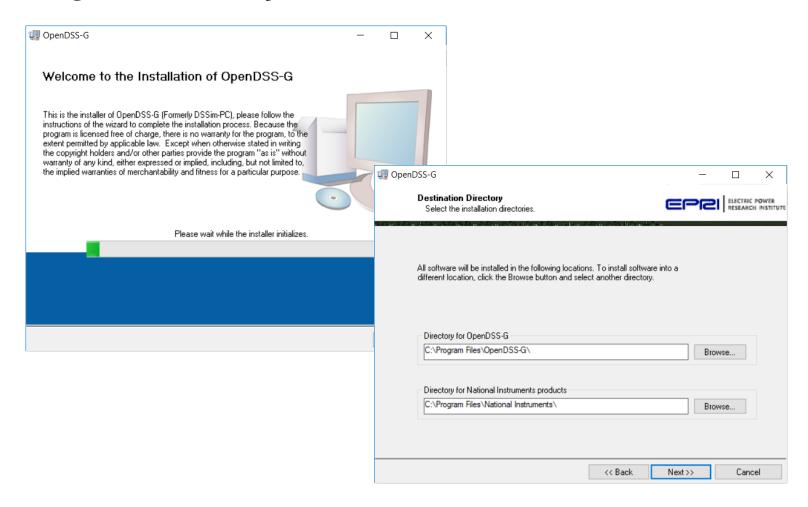
OpenDSS-G (fomer DSSim-PC) is a new step in the evolution of simulation tools for planning and operations based in OpenDSS. This interface has adopted the functionalities of OpenDSS for making easier to the user to use the advance features of the platform.

This version includes the parallel processing features included in OpenDSS. The interface is faster and by using graphical objects and forms the user can describe the power system, configure the processor utilization and many more advance features.

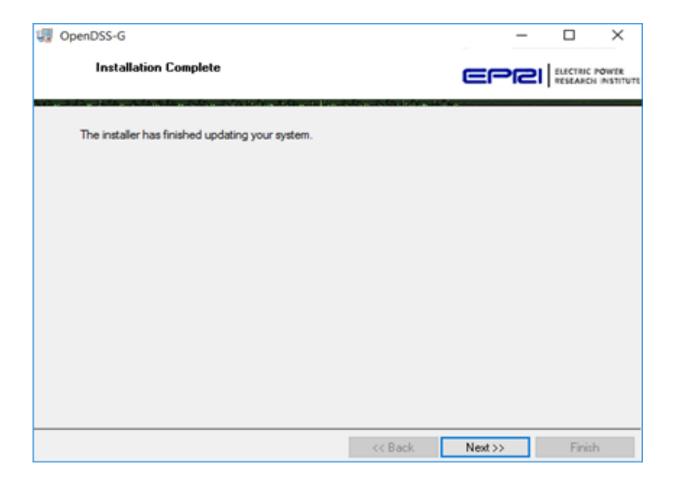
### 2. Instalar no modo administrador:



# 3. Siga as instruções:

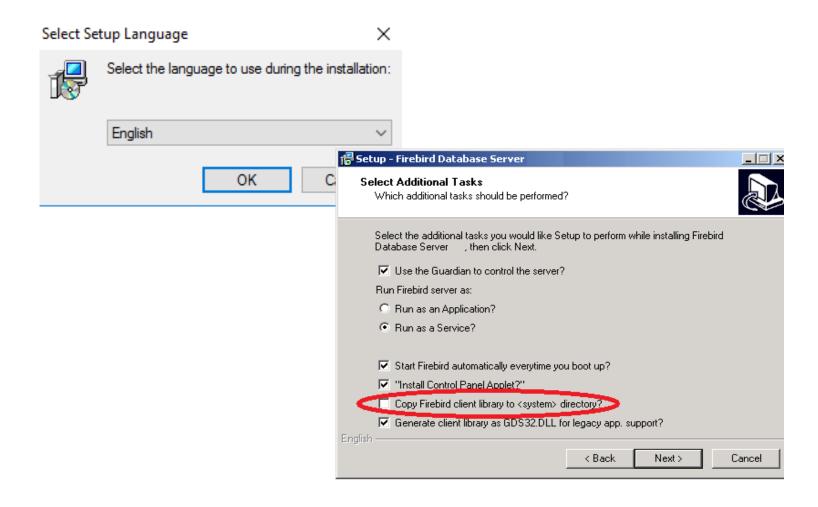


### 4. Primeira parte completa





### 5. Instalando a base de dados



### 6. Instalando o ODBC



7. Instalação Completa

Se houver algum problema, vá para a seção de solução de problemas (*troubleshooting section*) no manual do OpenDSS-G

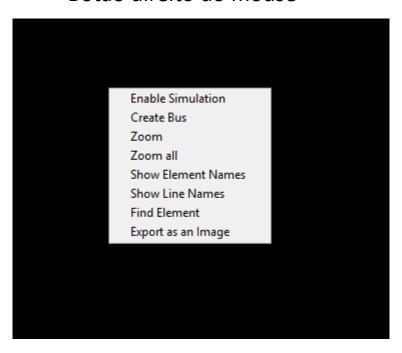
### Ambiente Gráfico do OpenDSS-G

- 1. Painel Gráfico
- 2. Painel de Controle
  - Modo de construção
  - Modo de simulação
- 3. Mini Painel

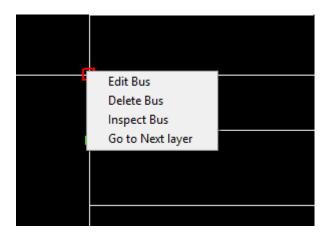


# Ambiente Gráfico do OpenDSS-G Painel Gráfico

#### Botão direito do mouse



# Botão direito do mouse em uma barra



# Ambiente Gráfico do OpenDSS-G Painel de Controle







### Ambiente Gráfico do OpenDSS-G Painel de Controle – Modo de Construção

New Project

- Open Project
- Create PDElement
- Save Project
- Create PCElement
- Save As...

New Bus

- Zoom
- Edit PDElement
- Inspector
- Edit PCElement
- Highlight
- Move PDElement
- Extras
- OpenDSS Command
- Help

Find Element

Enable Simulator Mode

- Controls
- Configuration
- Mini
- Edit Controls
- Generals OpenDSS Defs
- Selects Ops





### Ambiente Gráfico do OpenDSS-G Painel de Controle – Modo de Simulação

Run Simulation

Zoom

Graphics

Inspector

GIS Options

- Highlight
- Program Control
- Meter

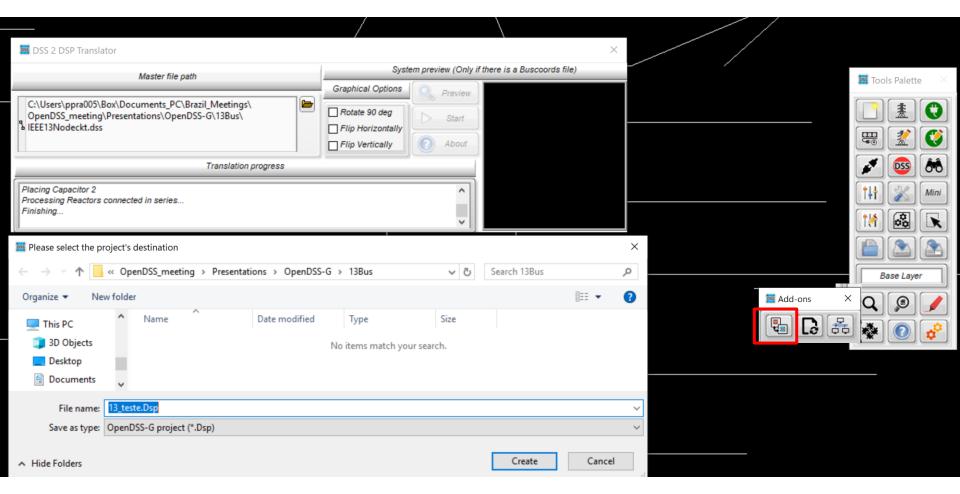
Reports

- Help
- Automatic Simulation
  Enable Constructor Mode
- Generate Fault
- OpenDSS Command
- Find Element
- Extras
- Configuration
- Mini
- Selects Ops

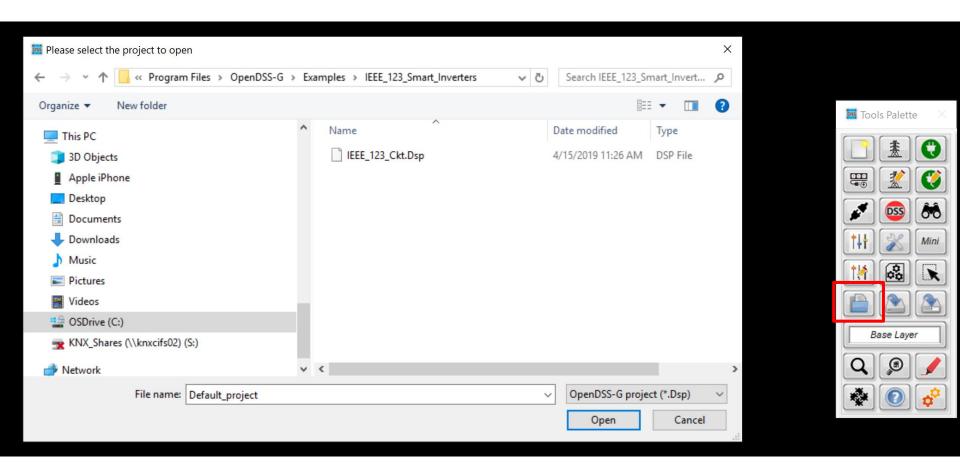




# Importando Modelo do OpenDSS para o OpenDSS-G



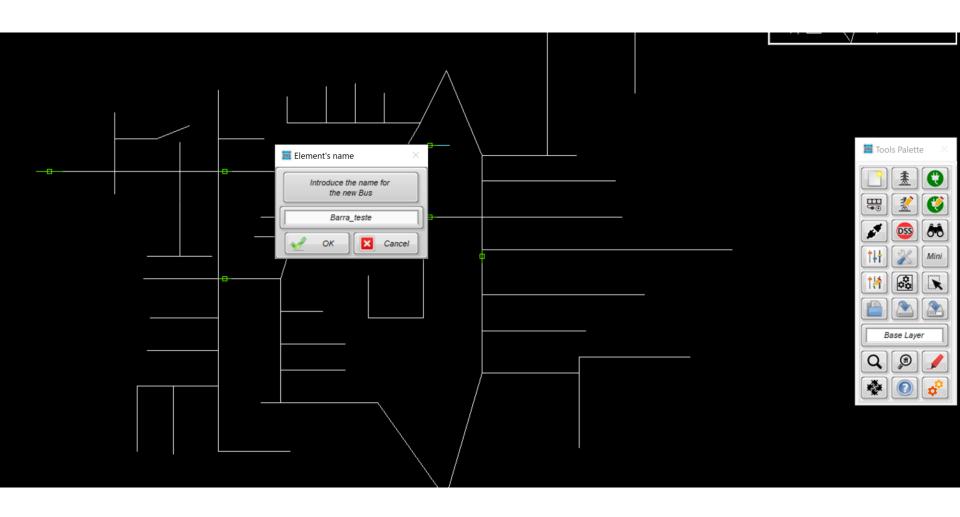
### **Abrindo Projeto**



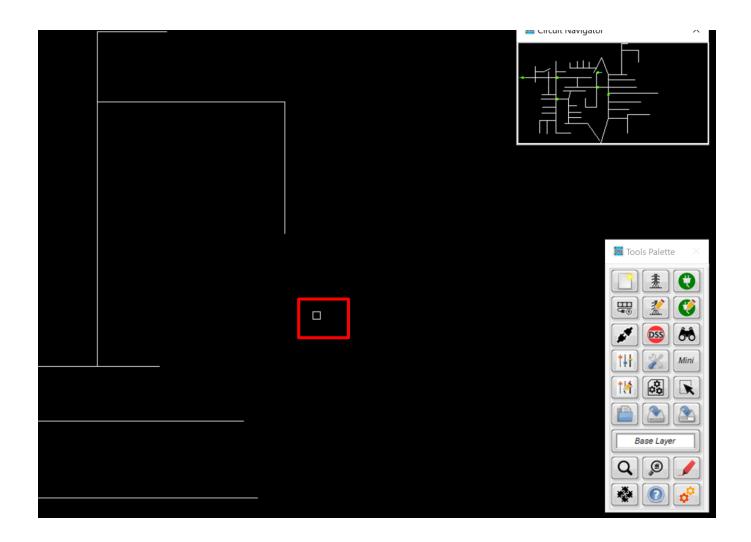
# **Abrindo Projeto**

OpenDSS-G -> C:\Program Files\OpenDSS-G\Examples\IEEE\_123\_Smart\_Inverters\IEEE\_123\_Ckt.Dsp M Circuit Navigator M Tools Palette

### Criando Nova Barra

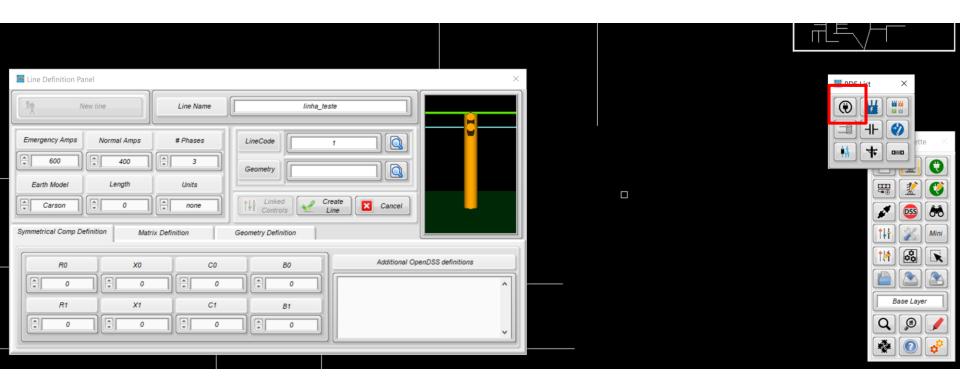


### Criando Nova Barra

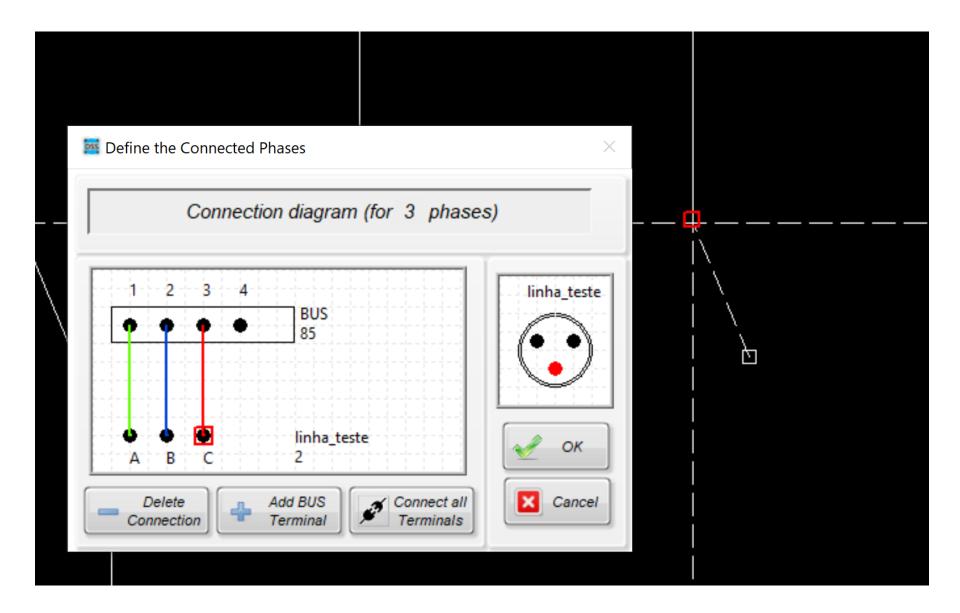




### **Criando Novo Elemento**

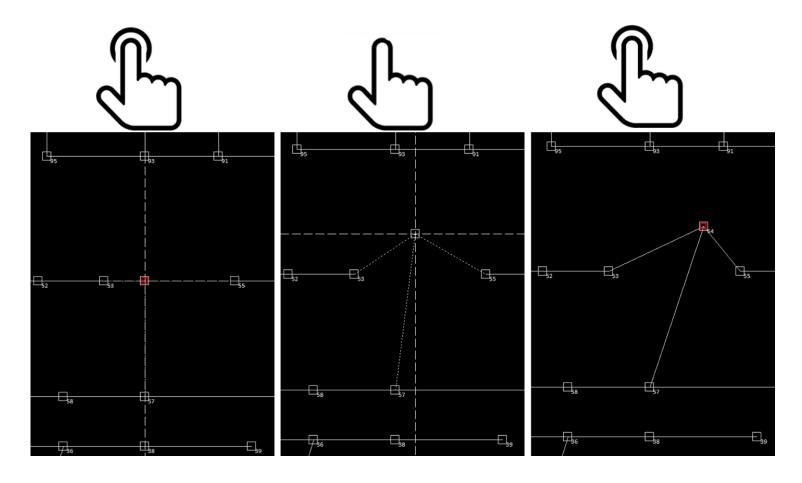


### **Criando Novo Elemento**



# Interagindo com a Interface

### Movendo elemento:

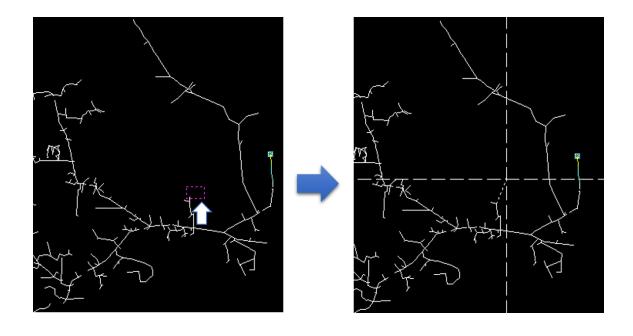


# Interagindo com a Interface

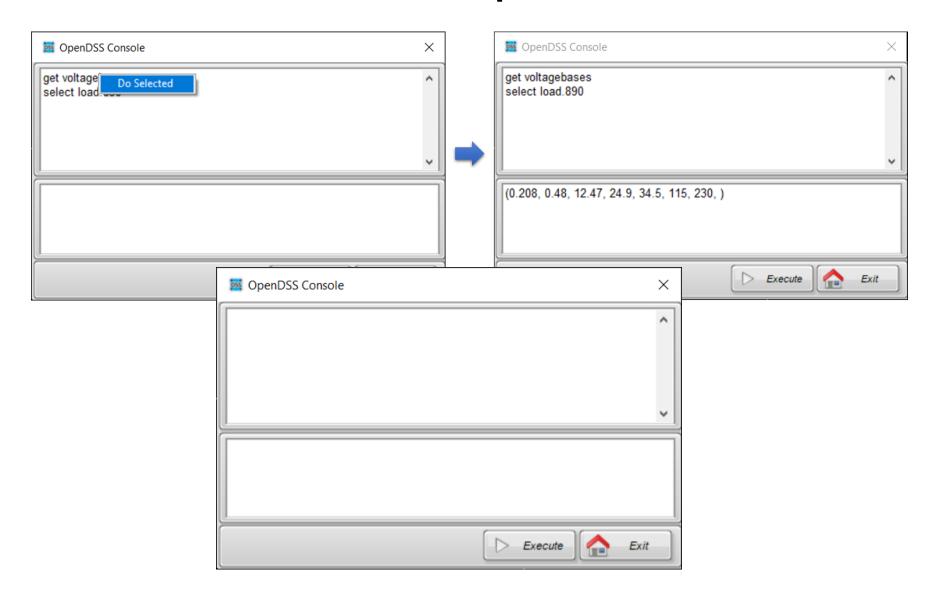
### Movendo elementos:



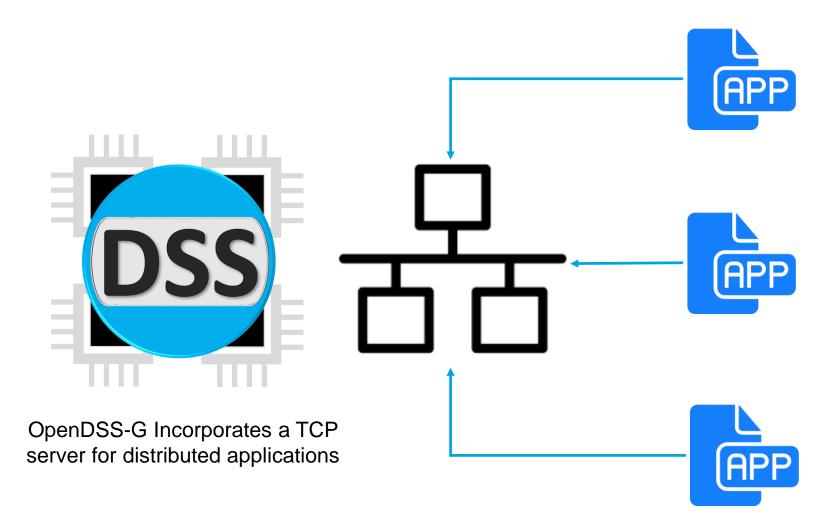




# Usando Comandos do OpenDSS



### Co-Simulation



### Together...Shaping the Future of Electricity