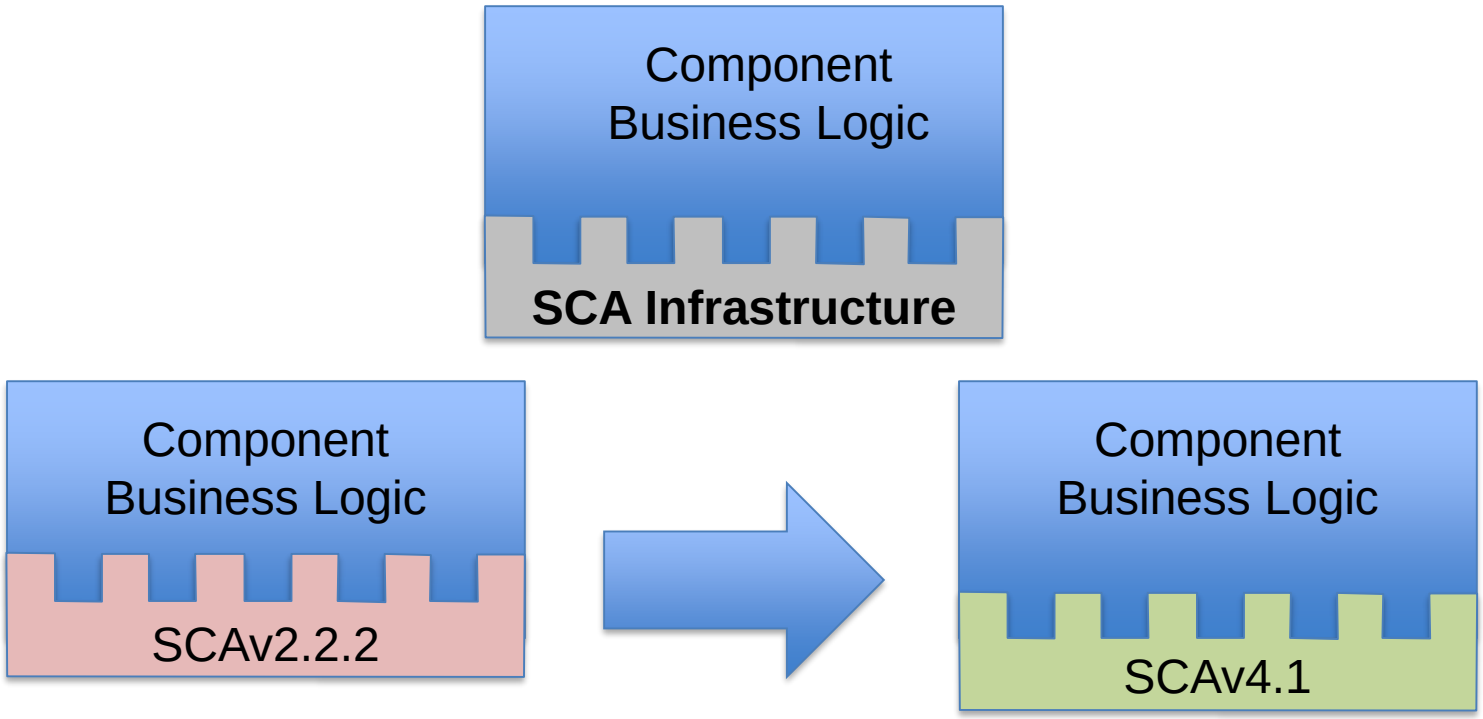

# NordiaSoft

## An Innovator for Software Defined Systems

## Advanced Tools for SCA Development

# NordiaSoft WInnComm 2017 Presentation




**SCA as infrastructure code: A seamless migration from SCAv2.2.2 to SCAv4.1**

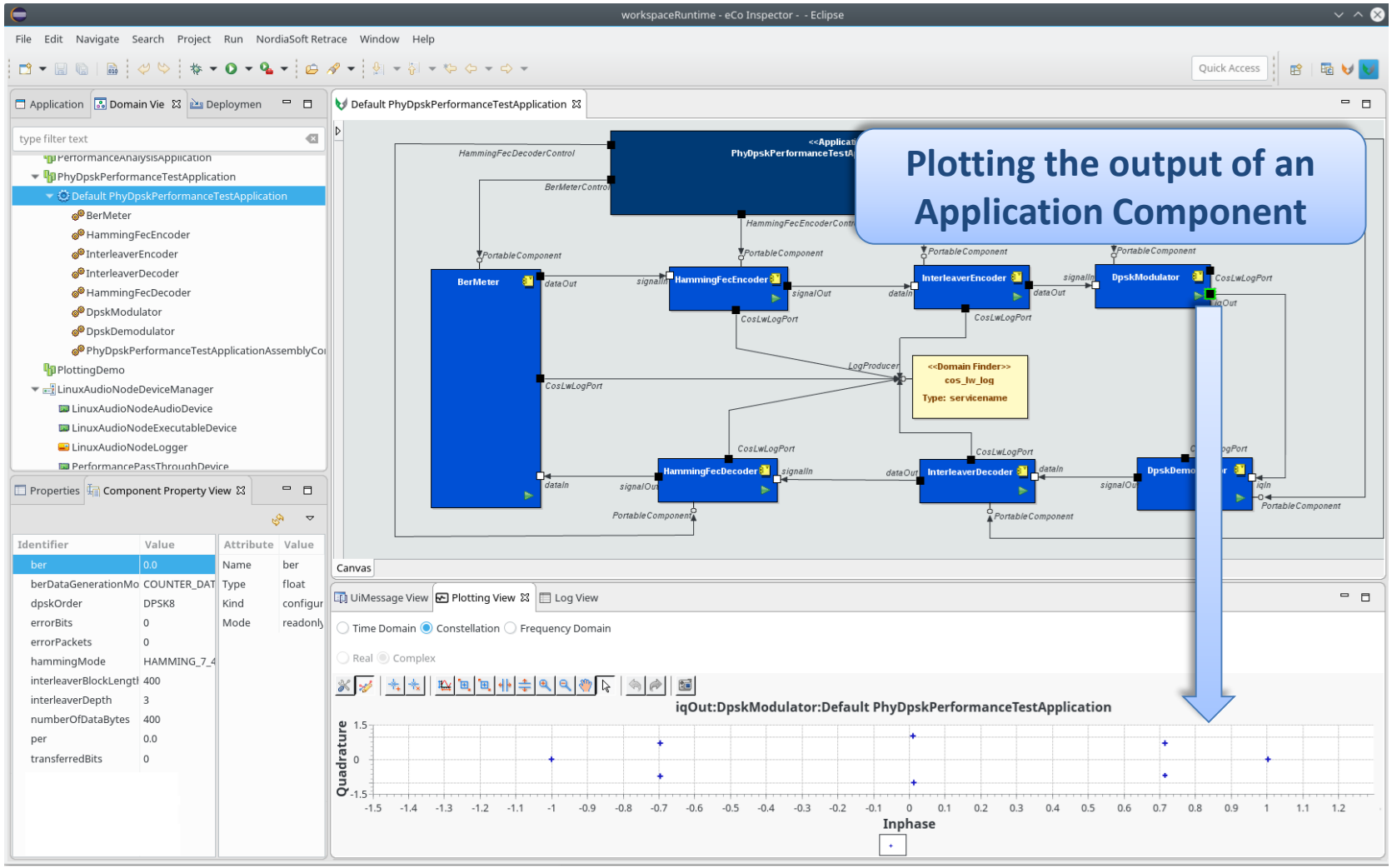
# Outline

## Development of an Application Component

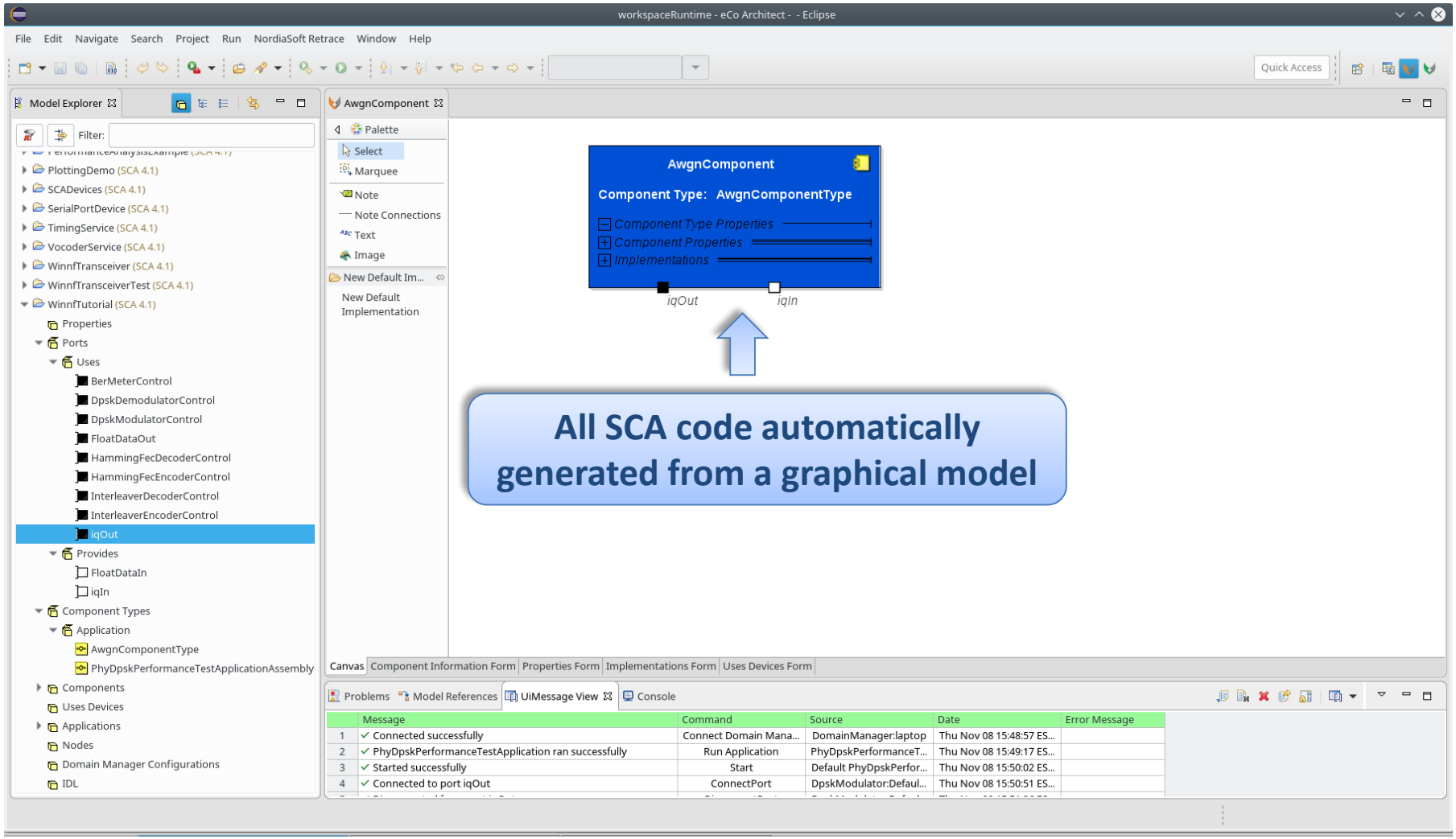
**Host Colocation for Device and Application Components**

**WInnF SCA Transceiver v2.0 Implementation**

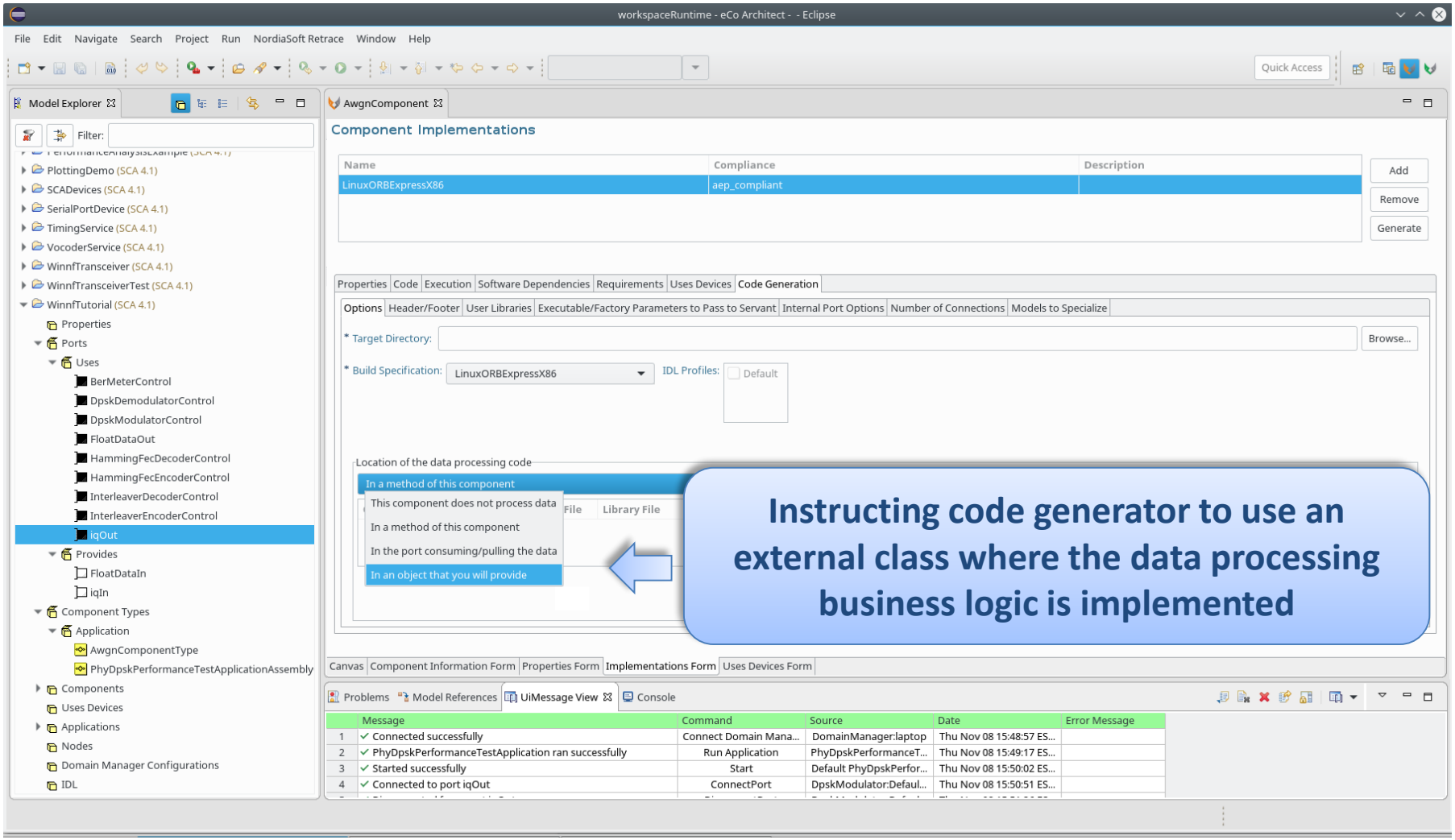
# A DPSK Modulation Application



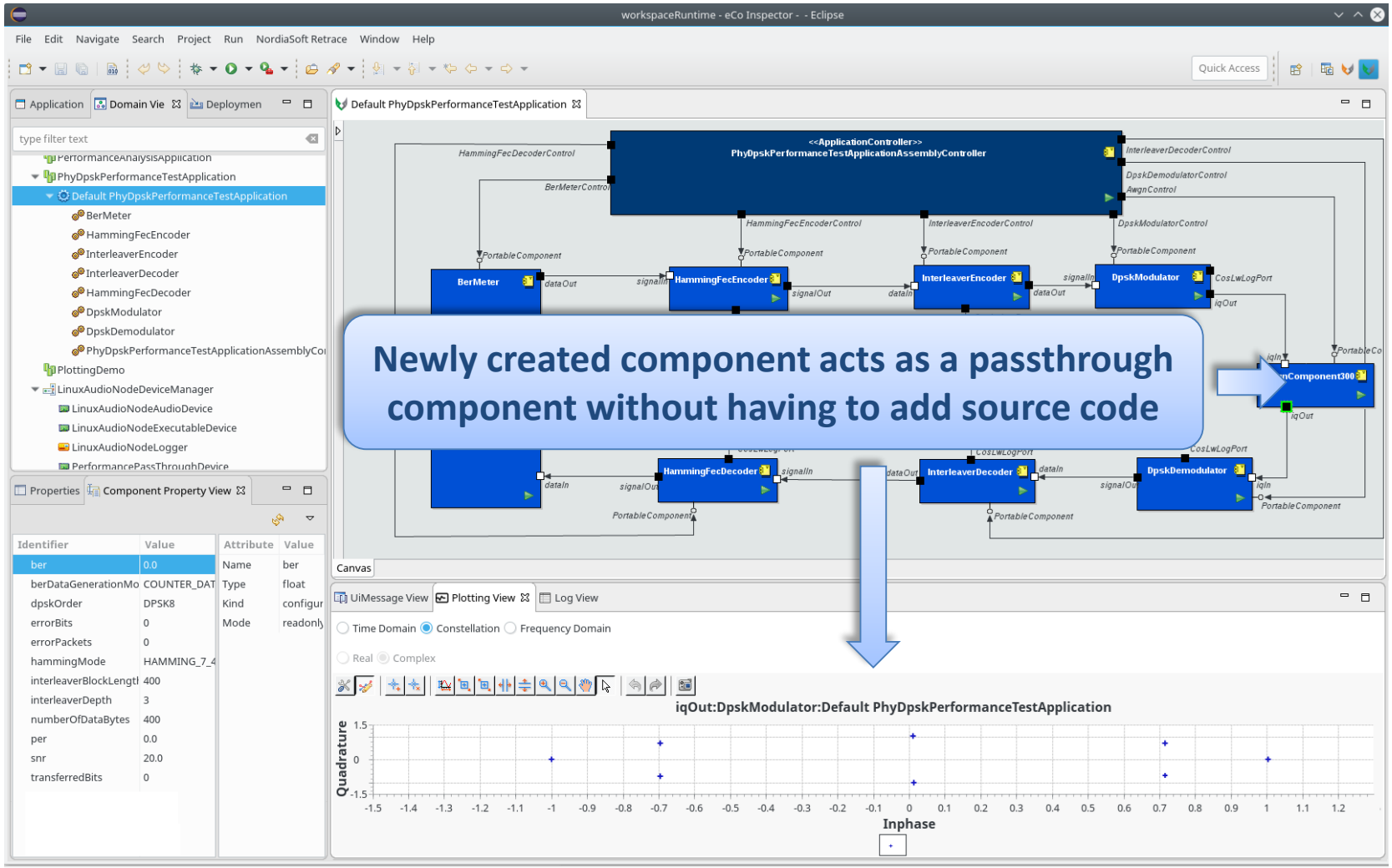
# Creating an AWGN Application Component



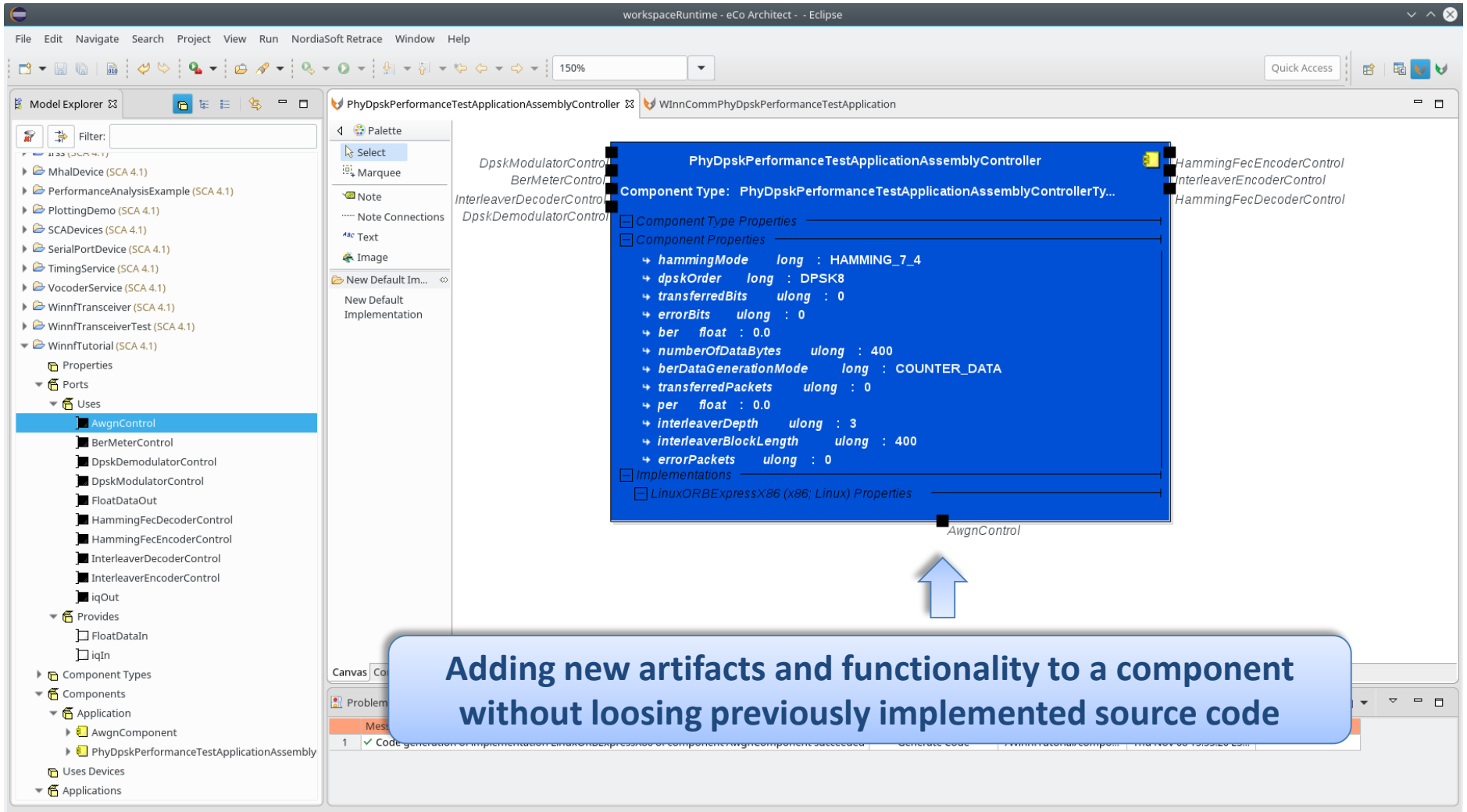
# Business Logic in an External Class



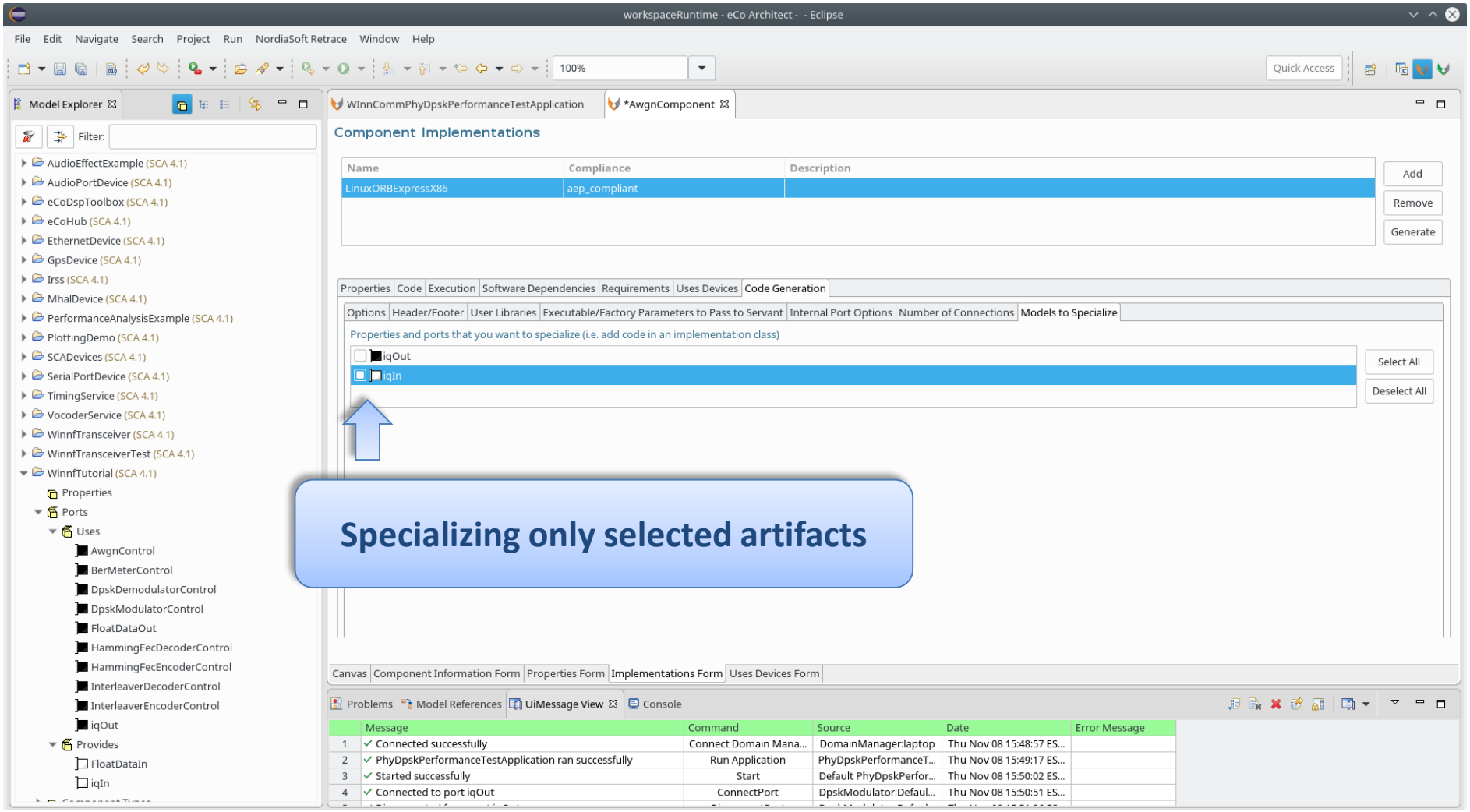
# Using a Passthrough Component



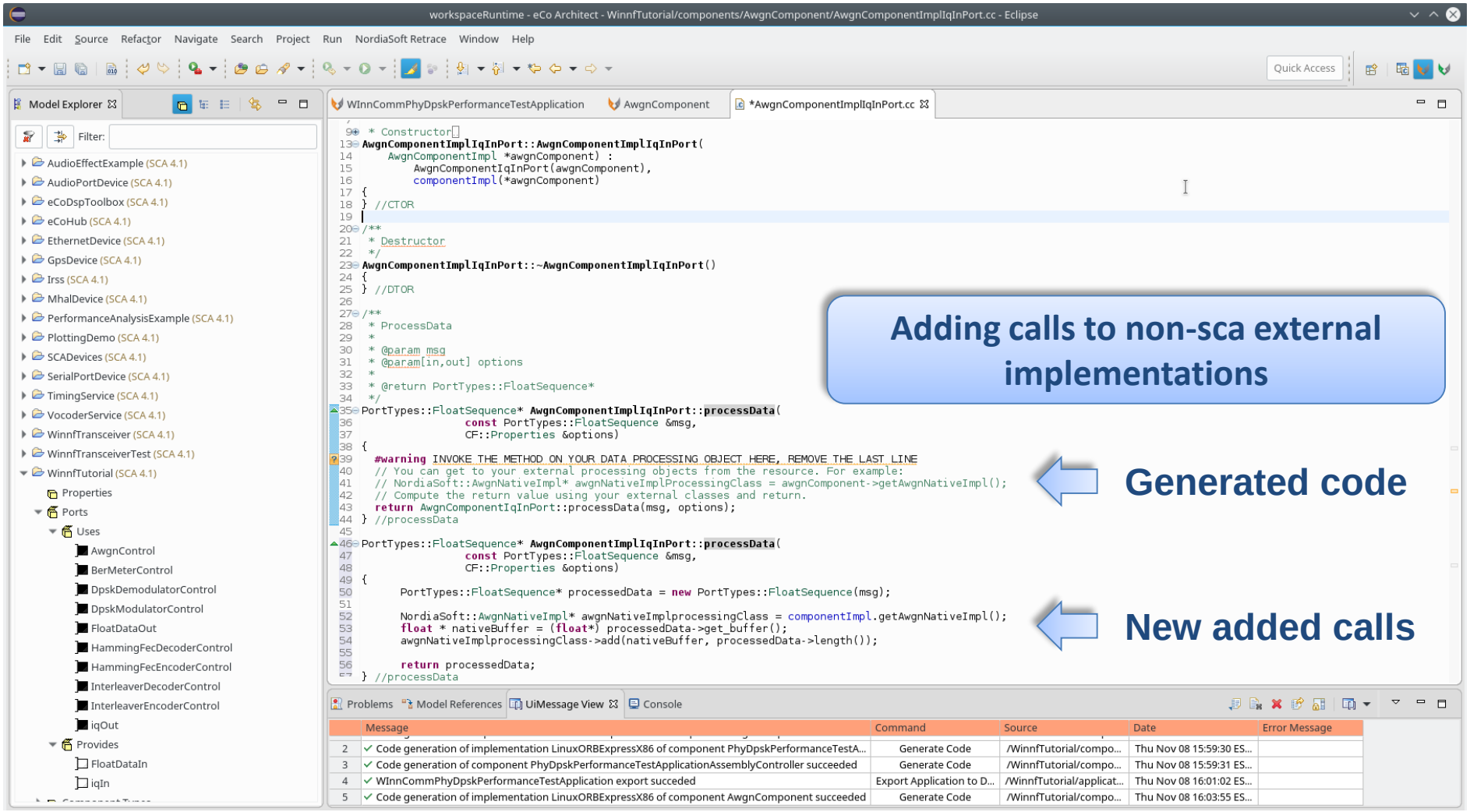
# Zero – Merge Code Generation



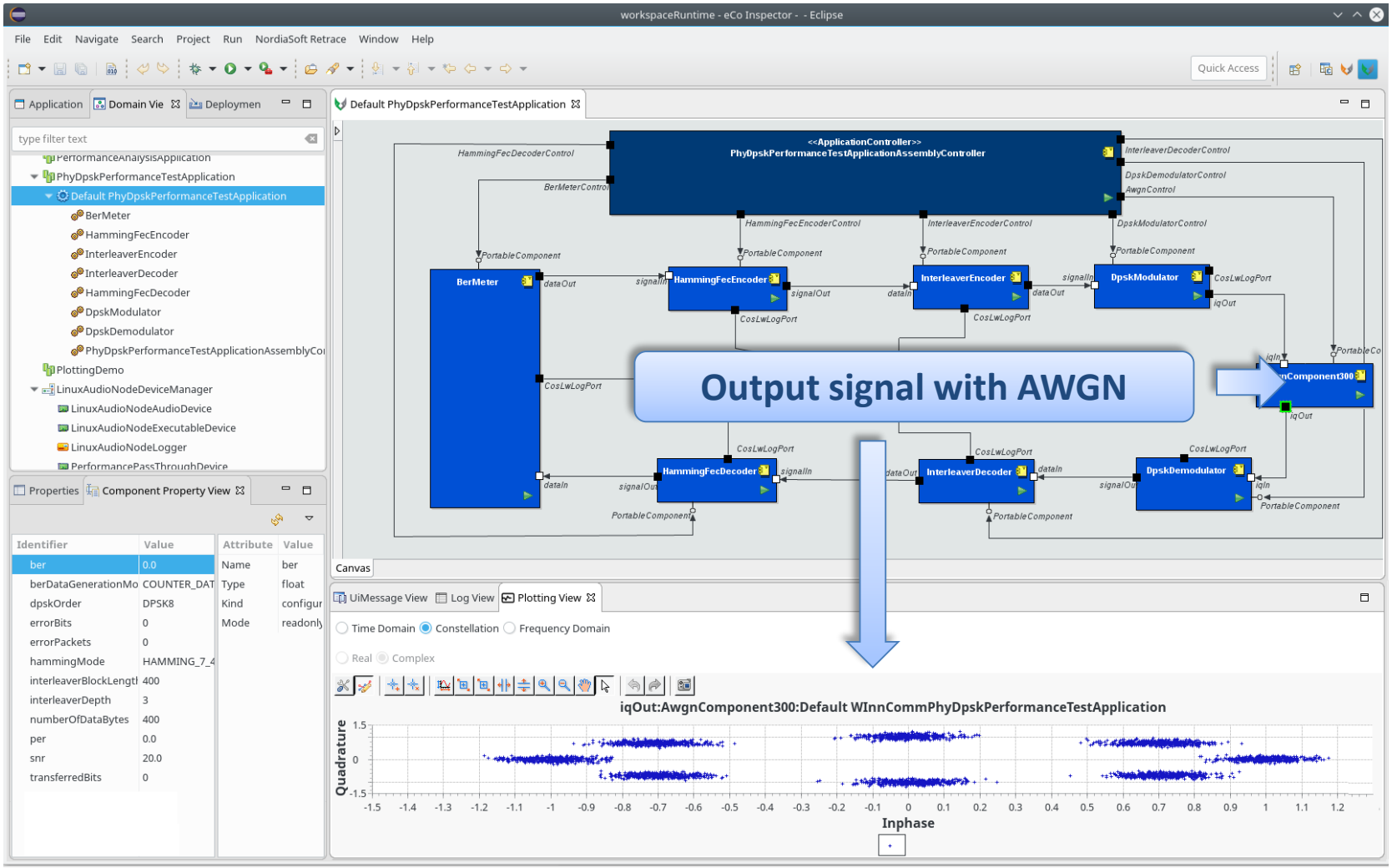
# Class Specialization



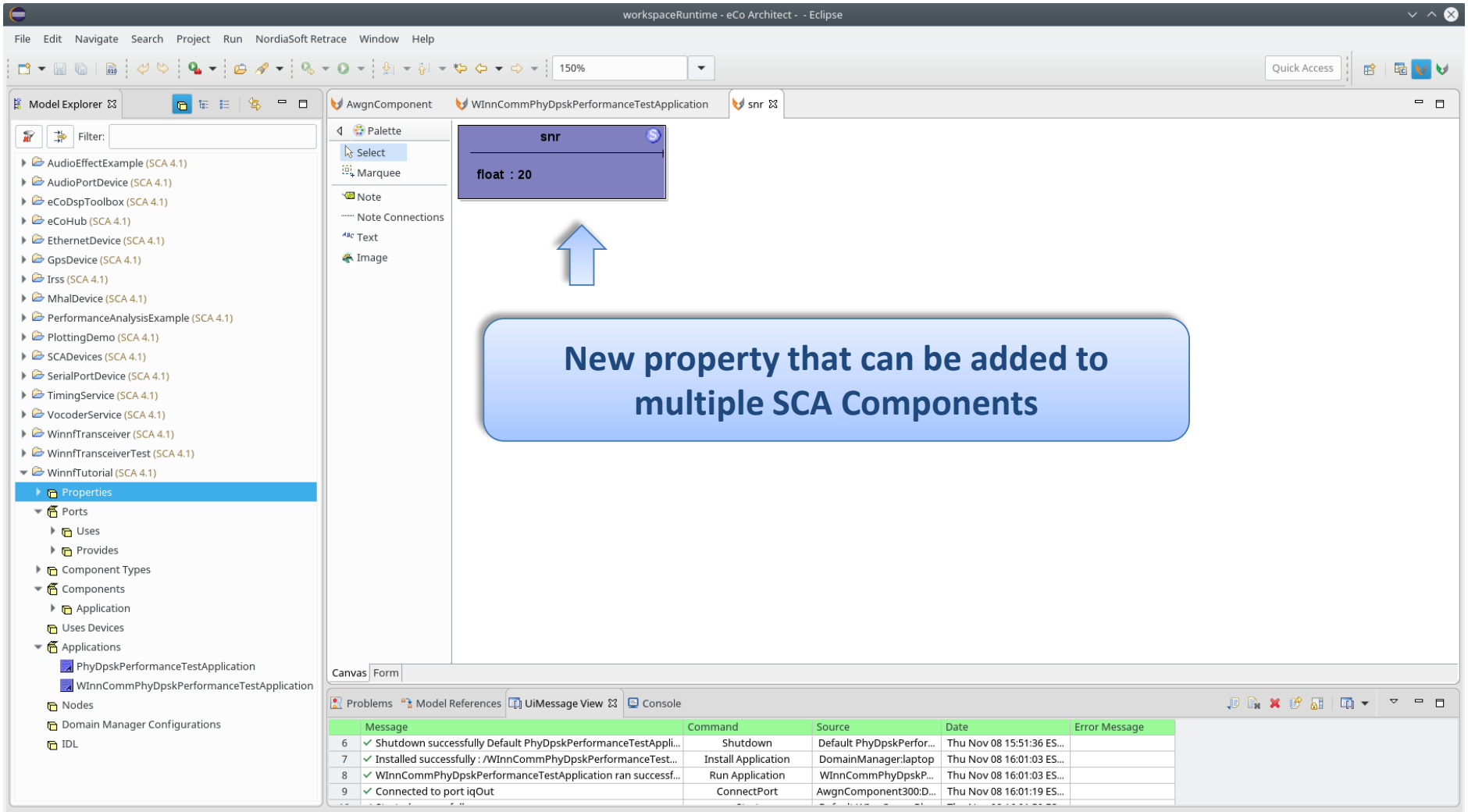
# Adding Business Logic



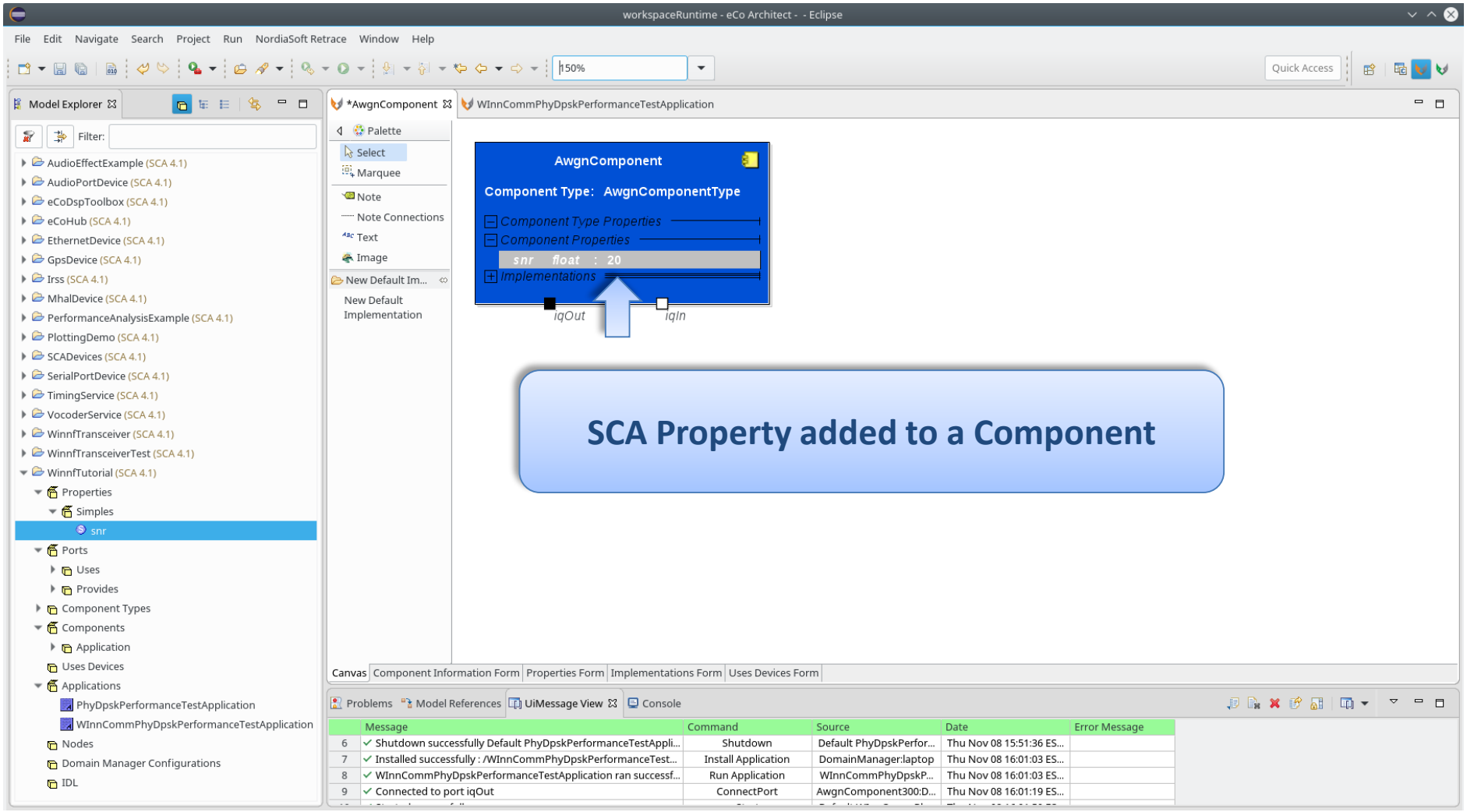
# Execution with Fixed Signal to Noise Ratio



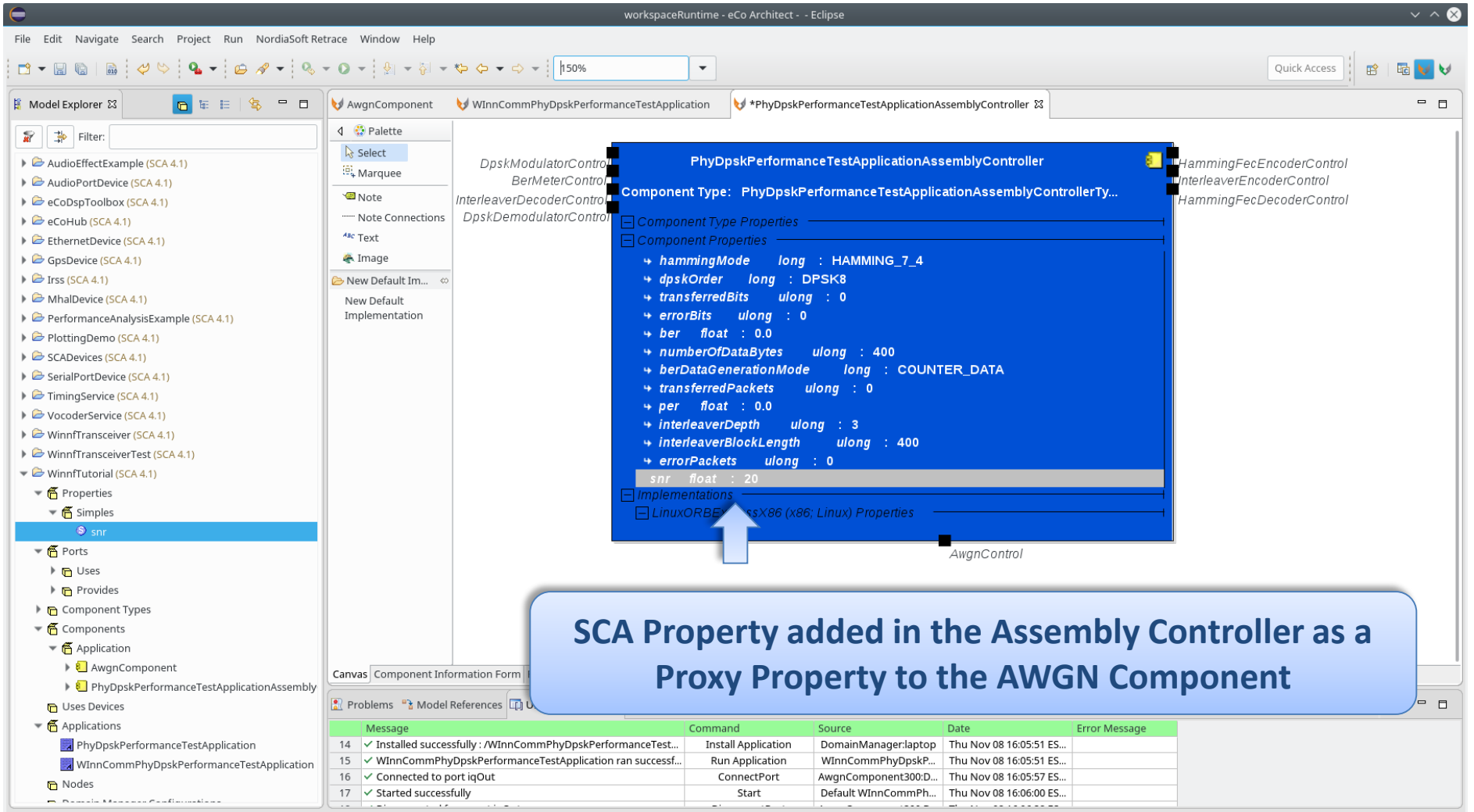
# A Signal to Noise Ratio Property



# Zero – Merge Code Generation

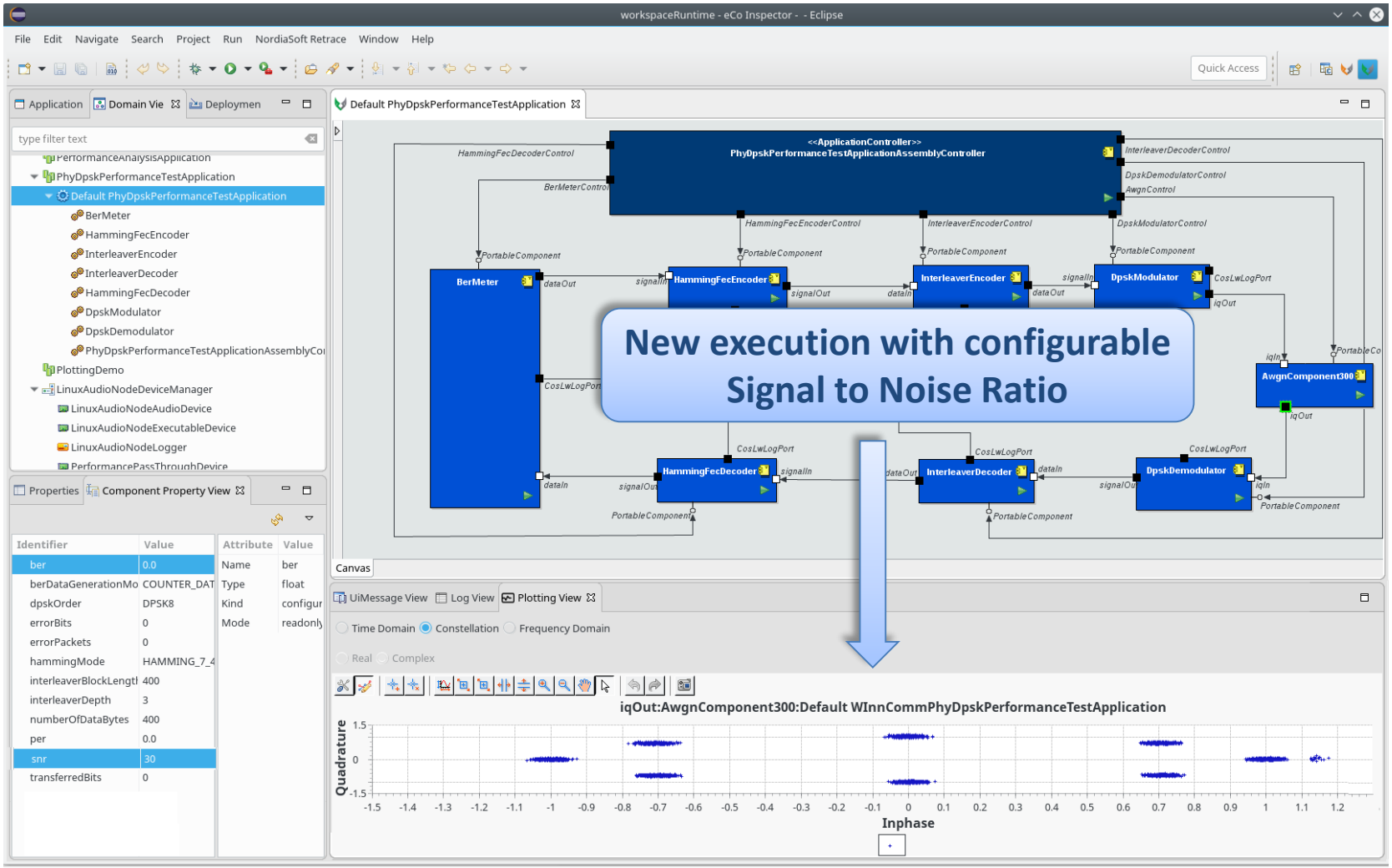


# Proxy Properties in Assembly Controller




**SCA Property added in the Assembly Controller as a Proxy Property to the AWGN Component**

# Execution with Configurable Signal to Noise Ratio



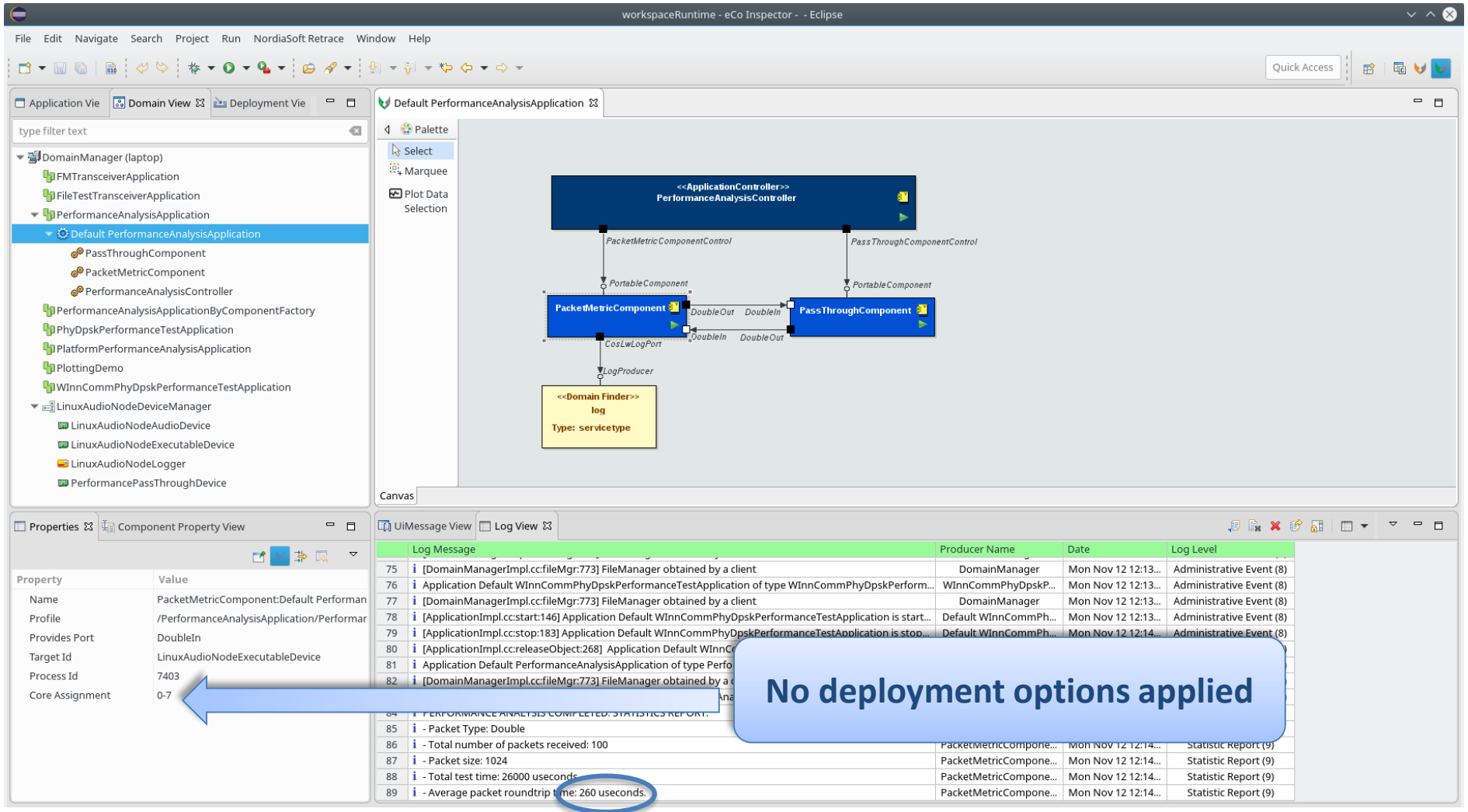
# Outline

Development of an Application Component

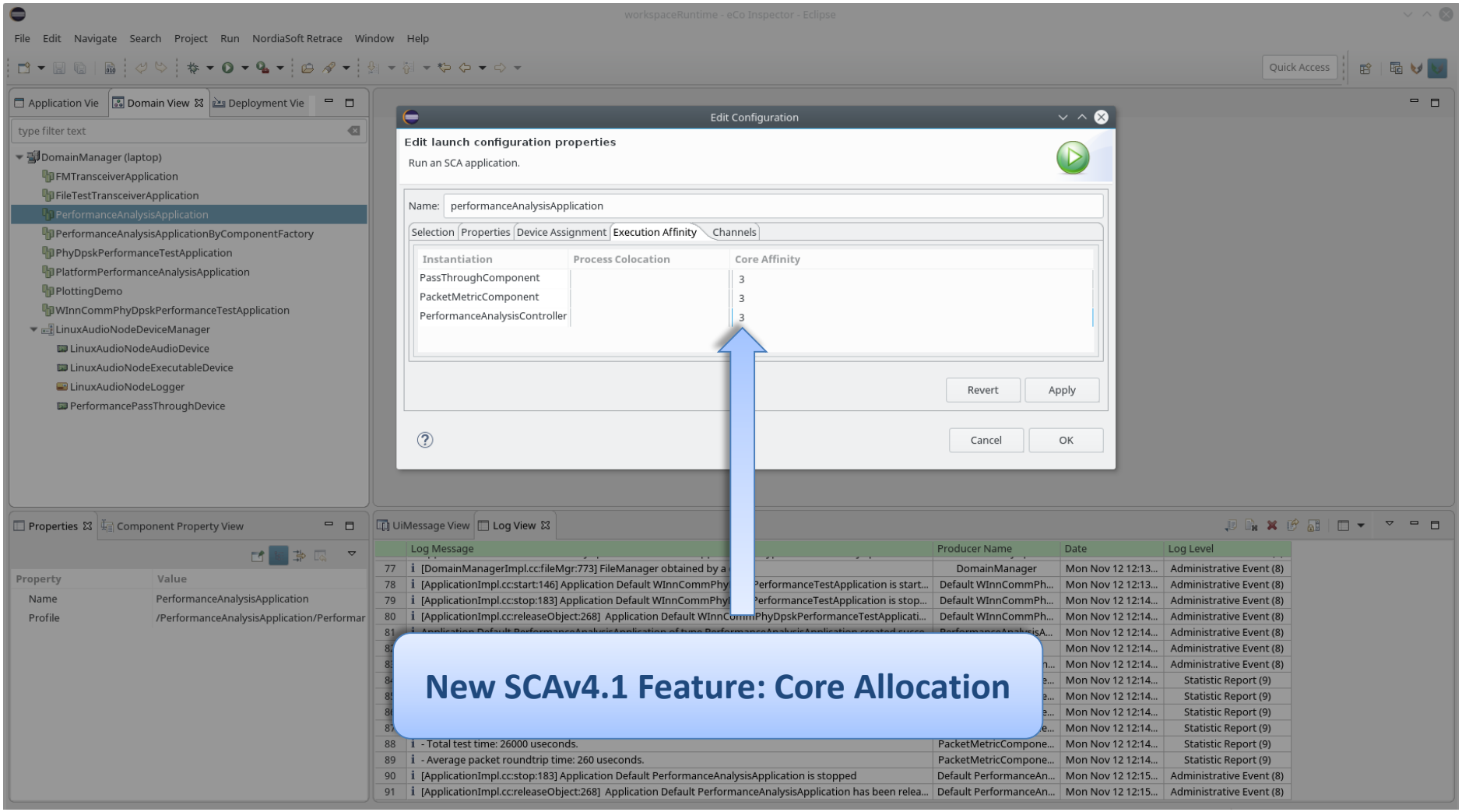
**Host Colocation for Device and Application Components**

**WInnF SCA Transceiver v2.0 Implementation**

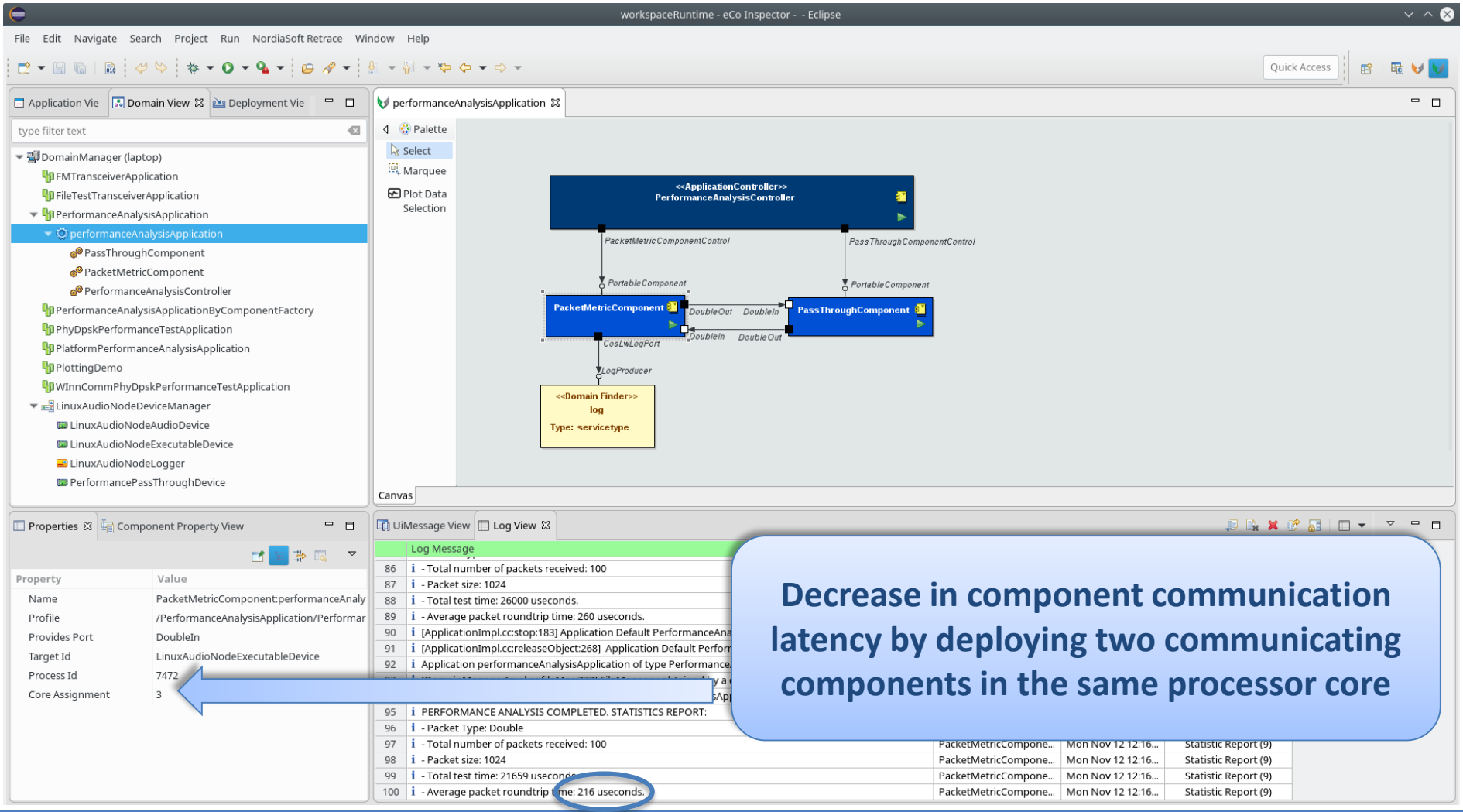
# Application Factory Default Deployment Behavior



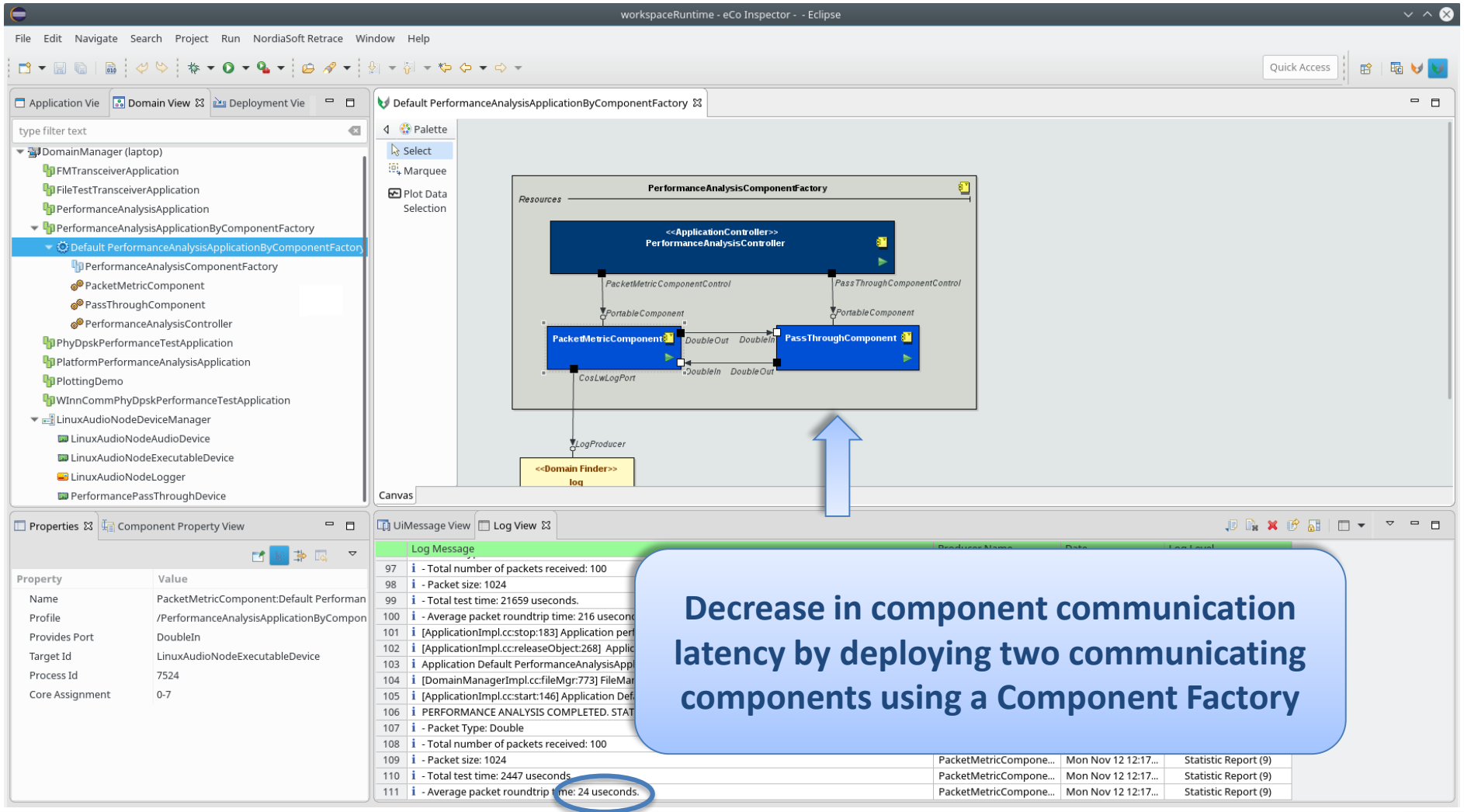
# Deployment using Core Allocation



# Deployment using Core Allocation

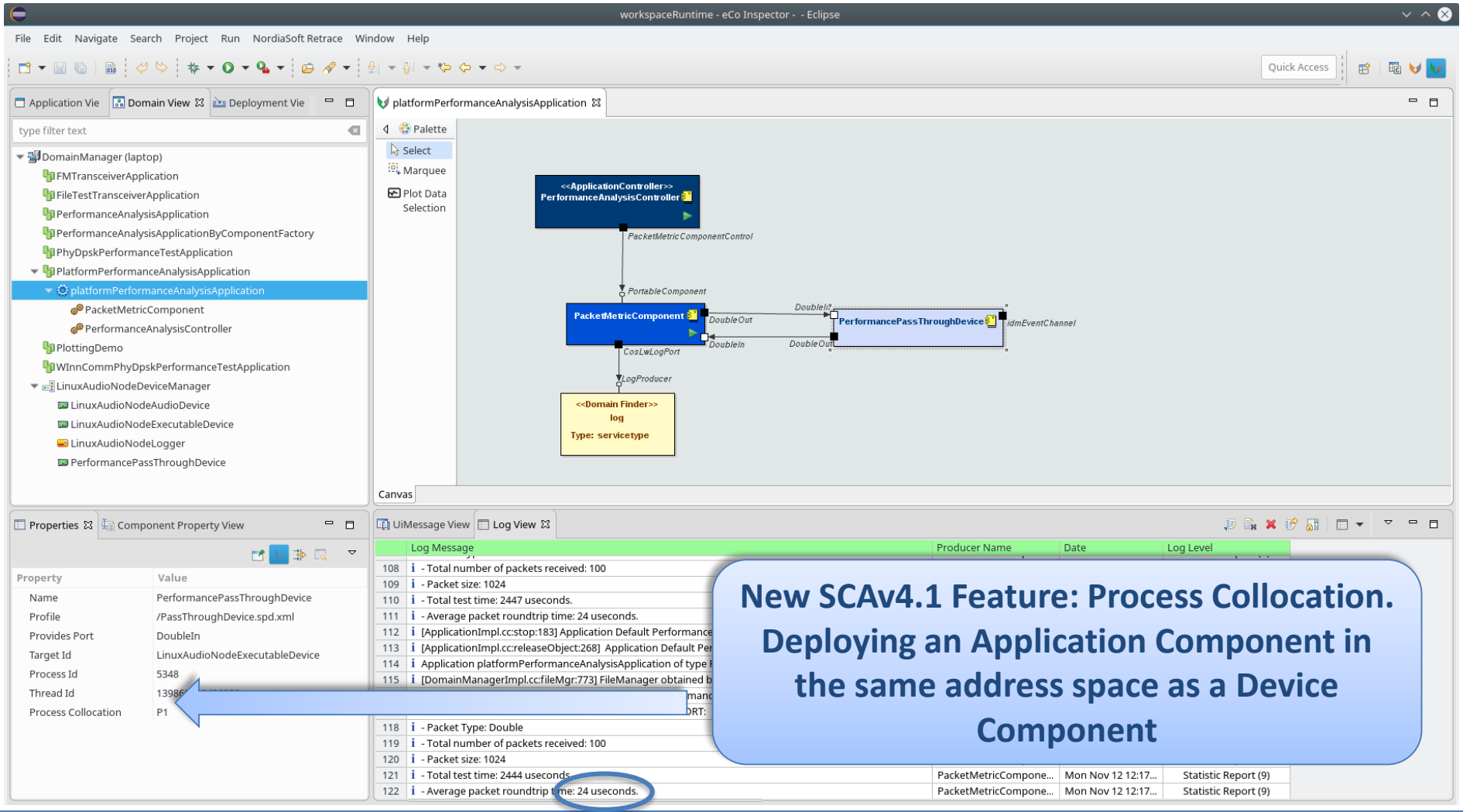


# Deployment using Component Factory




**Decrease in component communication latency by deploying two communicating components using a Component Factory**

# Deployment using Process Collocation



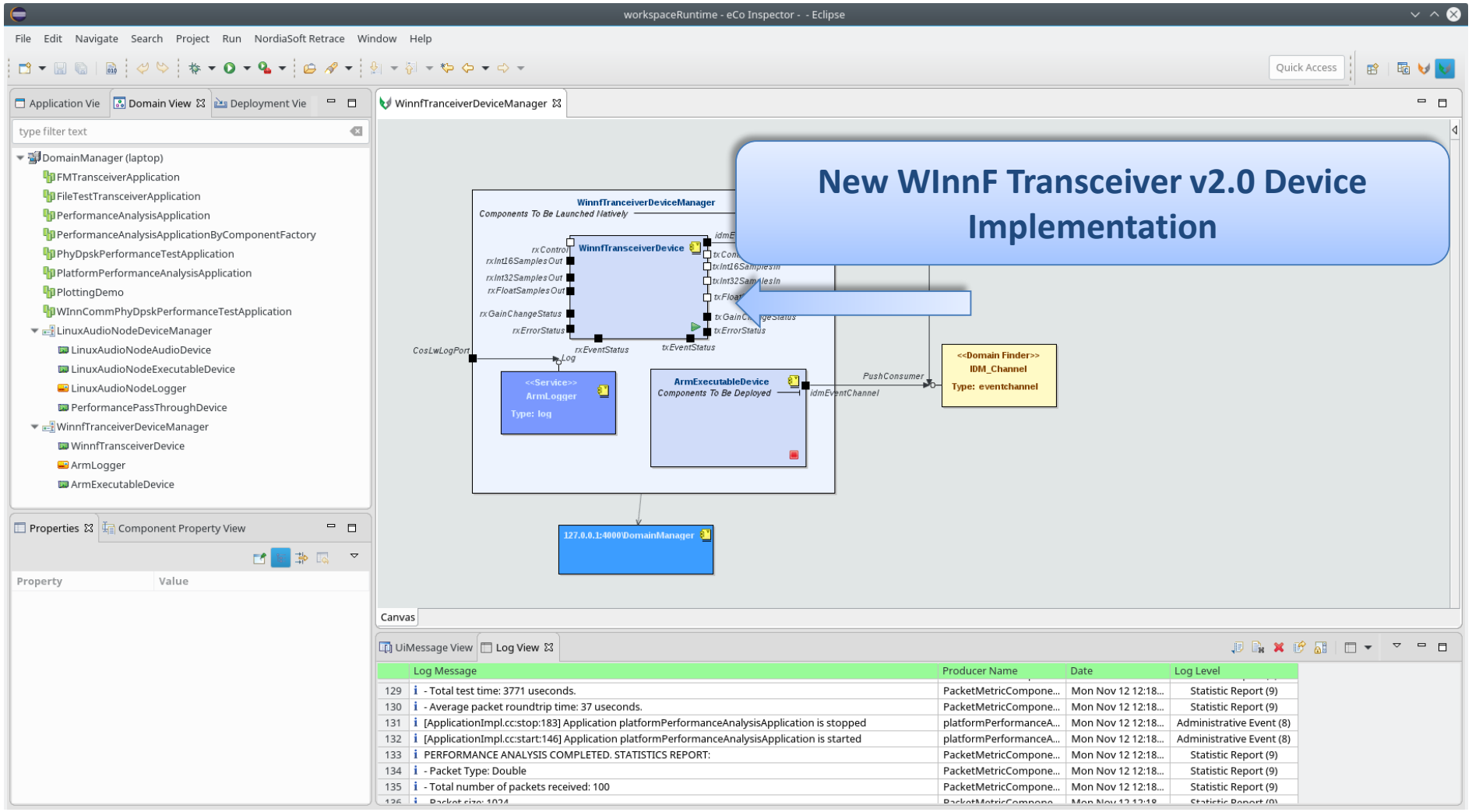
# Outline

Development of an Application Component

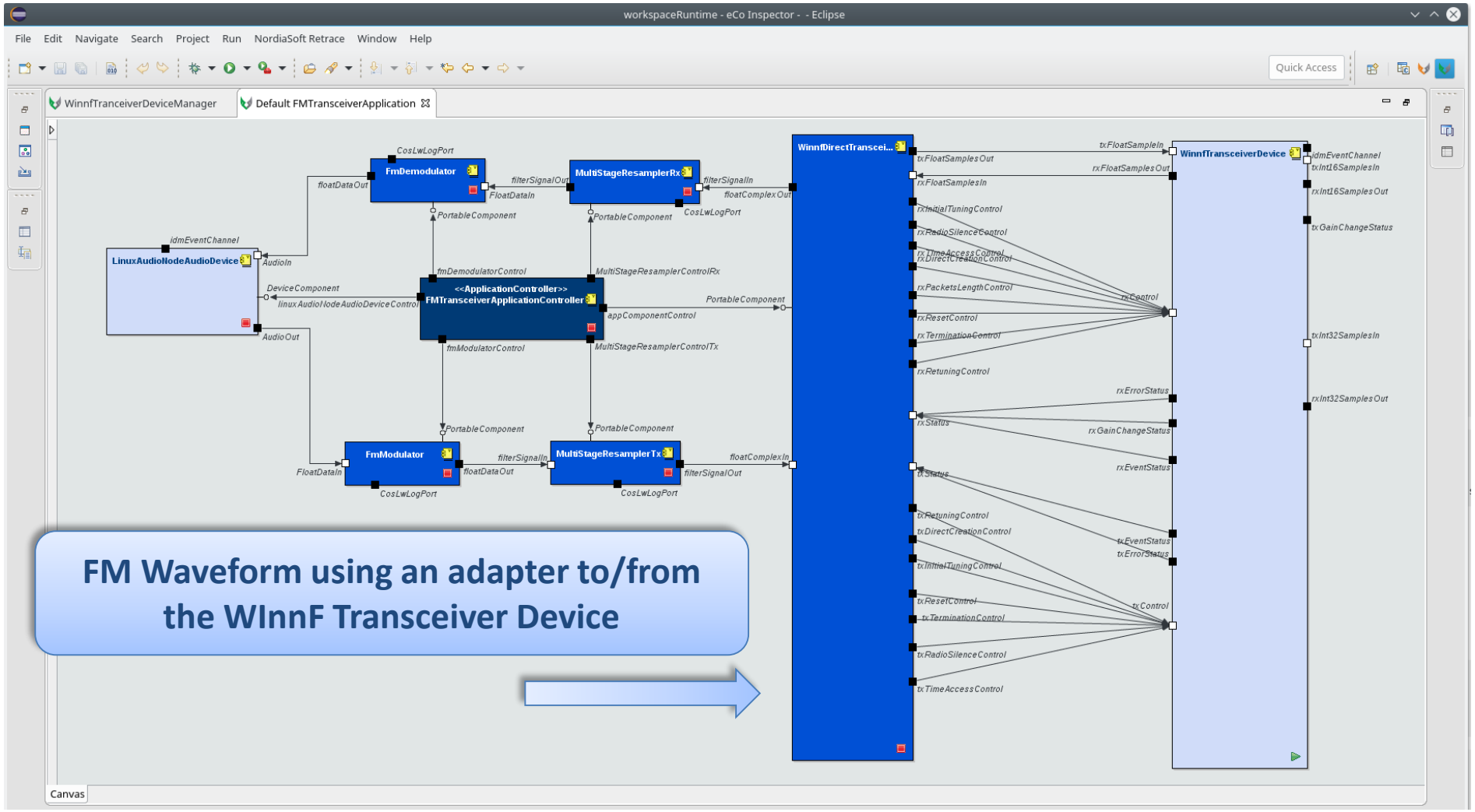
Host Colocation for Device and Application Components

**WInnF SCA Transceiver v2.0 Implementation**

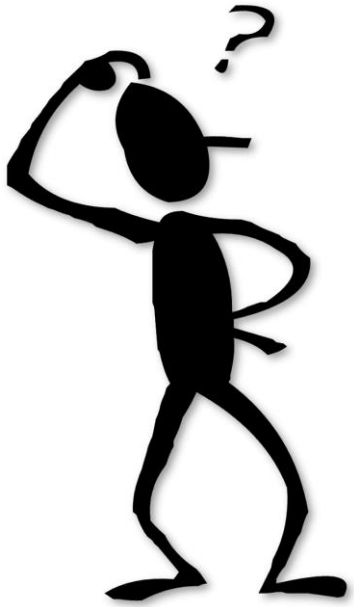
# First Implementation of WInnF Transceiver v2.0



# A Component Adapter to/from WInnF Transceiver




**FM Waveform using an adapter to/from the WInnF Transceiver Device**



# Questions?