

Publish/Subscribe Innovation

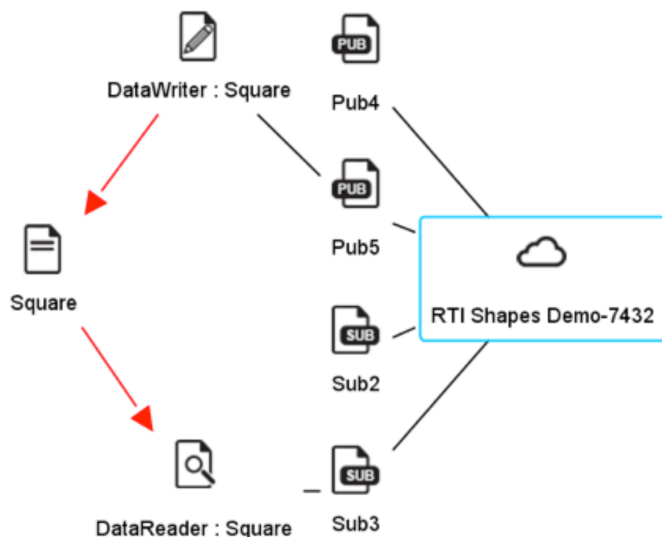
The Information For Me in DDS tool (InformeDDS) provides insight into the components of a publish/subscribe network. This tool can be used to view, monitor, inject, record, and validate messages from all components participating in a given Data Distribution System (DDS) domain.

For Analysis:

- Auto-discover domain participants and topics with no prior knowledge of their existence
- Visualize and navigate the relationship between domain participants and topics
- Display topic data format (i.e., IDL) and data as it is received
- Inspect Quality of Service (QoS) settings for each topic

For Testing:

- Perform simple message injection
- Validate discovered topic against pre-defined "ground truth" topic data
- Record data from any number of topics to analyze offline or be played back at a later time



"InformeDDS provides developers, testers, and administrators better awareness of the system under development and test."

Pub/Sub Visualization and Interactive Dashboard

By their very nature, publish/subscribe networks can become very complex quickly, and it is difficult to understand all of the interconnections among components.

InformeDDS has evolved as a tool to gain an understanding of what components exist, what topics exist, the relationships among them, and more.

InformeDDS is currently developed for RTI & Twin Oaks Computing Inc. DDS middleware environments, and can help debug connectivity issues (e.g., QoS incompatibilities), verify message content (by displaying data as it is received or by recording for offline analysis), and validate topic format (by validating against a "ground truth" topic description).

"The benefit and payoff for using InformeDDS is more efficient debugging of your DDS network and faster, more complete system validation, both resulting in reduced cost and schedule."

BENEFITS:

- Intuitive visual representation of a publish/subscribe network, providing fast recognition of problem areas
- Interactive search and navigation of the current publish/subscribe network
- Rapid verification that the system is behaving as designed
- Efficient method for testers to validate a developed system component against its specification

"InformeDDS provides unprecedented insight into your publish/subscribe network."