



Description: This document covers the various methods of converting displays into GraphWorX format.

OS Requirement: n/a

General Requirement: User must have intimate knowledge of displays to be converted.

What Kinds of Displays Can Be Converted

ICONICS provides three translation tools with its core GENESIS product; one for Intellution's iFIX displays, one for Intellution's FIX32 displays and one for WonderWare's InTouch displays.

Levels of Translation

Below are our levels of translation from other displays into GraphWorX32. The levels of translation increase in difficulty to implement as they progress. Level 1 is already attainable and Level 5 may never be done due to the extreme difficulty in conversion.

Level 1 (Blue): Basic translation of statics and dynamics

Level 2 (Green): 100% translation of statics and dynamics plus translations of simple expressions

Level 3 (Yellow): I/O Portion of signal database translation and complex expression translation

Level 4 (Orange): VBA translation, TWX32 & AWX32 ActiveX limited translation

Level 5 (Red): 3rd Party ActiveXs, Control portion of signal database

iFIX Translator

- We are currently at Level 1.
- Level 1 for iFIX entails a three step process: iFIX to iFIX Java Definition Files (JDF), JDF to GWX32, and then touching up things not converted properly and adding things that were not converted altogether.
- We plan to accomplish Level 2 in the near future.
- The time it would take to go to Level 2 is estimated at 2 full weeks of dedicated engineering time.

- The time it would take to from Level 2 to level 3 is estimated at 8 weeks.
- For the highest translation percentage of the signal database and complex expressions, DataWorX will be used (for the nesting and lookups in the expression, and also for type conversion).

FIX32 Translator

- We are currently at number 1 and will likely never go any further due to lack of automation and import/export capabilities in FIX32.

InTouch Translator

- We are currently at Level 3 with the exception of a few limitations in the translation of dynamics.

Limitations

Currently, there is no push-button simple translation for any of these displays. All project conversions will require multiple steps. There is no getting around this because not only do the displays need to be translated, but tag databases must also be converted and aliases must be resolved.

Our translation utilities cut out most of the work and make life a lot easier for system development and conversion, but there is no way to convert an entire system with the push of a button.

Level 5 (code red) of our translation levels will likely never be done. Do NOT sell a customer on a translation solution involving Level 5 conversions.