

# Optimization of Message Handling

The following topics are covered:

- Screen Output Handling
  - Restoring the Screen Content
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## Screen Output Handling

Natural provides an extensive message optimization capability. Prior to sending an output screen, Natural determines which portion of the screen has been modified; only data which have actually been modified are sent.

This is to be considered when, between two successive terminal outputs, portions or the entire terminal contents are changed

- by using the CLEAR key or
- by intervening dialog steps at system level (K2 interruption or similar interruption).

This is particularly true if a subprogram called from Natural by an external CALL interface produces dialog output.

## Restoring the Screen Content

In the above-mentioned cases, you can use one of the following methods to cause Natural to restore the most recent terminal screen contents.

- Issue the terminal command %R.
- Use the statement SET CONTROL 'R'