



# Ovation™ Playback Recorder

## Features

- Continuously records plant operations data at the same resolution as the live control system
- Equipped with standard video-recorder-like functions
- Provides holistic and repeatable views of a plant event
- Automatically populated with control system data; no additional engineering required



## Introduction

When an abnormal event randomly occurs during plant operation, time is of the essence to quickly determine the root cause.

Escalation of the issue can lead to serious and costly consequences, such as equipment damage or a complete plant shutdown.

When operation has returned to normal, access to event data is equally important, providing valuable insights for modifying maintenance or operating procedures to help avoid future similar events.

## Applications

The Ovation™ playback recorder automatically and continuously records plant operation data at the same resolution as live control system.

Captured plant events can be played back at any time on Ovation operator workstations through the playback utility.

Recorded operating data can be used to enhance training, reduce maintenance and support decision-making. Use case examples include:

- **Engineering** – troubleshoot control strategies during project testing; optimize and tune new or revised logic post-commissioning
- **Operations** – review actions taken during an event to identify best mitigation responses and update operating procedures to avoid or better manage similar events in the future
- **Maintenance** – quickly diagnose problems to extend equipment life and reduce maintenance costs

## Functions

Ovation playback recordings can be played back on demand, providing a holistic view of plant events.

A dedicated workstation records Ovation network traffic used to 'drive' playback scenarios which can include point information, point review, trends, graphics, signal diagrams and alarm displays.

As a node on the Ovation network, playback data can be securely viewed on operator workstations, engineering workstations with operator functionality, and remote desktops.

A rolling buffer stores recorded information on a first-in, first-out basis in which the oldest data is overwritten once the buffer reaches maximum capacity. For example, a 200k point system with a one terabyte hard drive can store approximately 14-days' worth of dynamic data.

As an option, recorded operating data for specific events or time periods can be exported to other storage devices for long-term archiving.

Like a digital video recorder, Ovation playback utility is equipped with standard functions such as play, pause, fast forward, rewind and the ability to step through logic sequences — all accessible from a media toolbar.

The playback workstation is automatically populated with control system data; no additional engineering is required beyond initial drop configuration.

## Support

As a validated Ovation solution, the playback recorder workstation hardware and software are covered by Emerson's lifecycle support programs for updates, migrations and service.

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