Modernizing the Instructor Station for 2018 and Beyond

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Topics

• Introduction
• L3 MAPPS Instructor Station Software Evolution
• Orchid® Instructor Station
• Orchid® Instructor Station Touch Version
  – Overview
  – Status
• Live Demonstration
Introduction: Orchid® Instructor Station

• Touch devices are more readily available and more popular than ever
  – More powerful, lighter, better displays
  – Various brands, sizes, functions, etc.
  – Different operating systems (Windows, iOS, Android)

• Interacting with gestures not only available for mobile devices but also for desktop PCs

• Although current generation of Orchid® Instructor Station usable on touch devices, user interface not optimal

• L3 MAPPS’ next generation instructor station designed for mobile devices as well as desktop computers
L3 MAPPS Instructor Station Software Evolution

IOS Station (3G)  
Irix (Unix)

Isis™ (4G)

Windows

Orchid® (5G)

Windows

Orchid® (6G)

Windows
Orchid® Instructor Station (5G)

- Simulation control and maintenance functions (freeze, unfreeze, store, restore, speed-up, slow-down, DORT, etc.)
- Replay scenarios and operator actions (synchronized with the other systems such as Orchid® Multimedia Manager, etc.)
- Insertion of plant component and system malfunctions, instrument overrides and local operator actions
- Direct access to modeling schematics, active schematics and virtual (soft) panels
- On-the-fly creation of active schematics and virtual panels
- Multiple operating modes i.e. instructor, operator, engineer and student
- Built-in exam security

- Control and monitor all aspects of simulator and trainee performance
- Fully graphical user interface with standard Windows features e.g. drag and drop, window resizing, zoom, pan, etc.
- Highly configurable (e.g. toolbars, plant parameters, feature behaviors, etc.)
- User-defined windows layout
- Client/server application
- On-line PDF user manuals
- Supports multiple languages (Unicode)

- Focused on automation and data collection
  - Create/edit graphical scenarios
  - Monitor, record and trend any parameter
  - Monitor and track operator performance
  - Scenario-based Testing and Training (SBT²)
  - Generate training performance records and reports based on ANSI/ANS-3.5 requirements
Orchid® Instructor Station Touch Version Overview

- Touch-enabled instructor station
- Simplified user interface for desktops and Windows tablets
- Windows 10/iPad-like functionality (swipe, flick, slide and pinch)
- Includes all Orchid® Instructor Station 5G control features (such as freeze/run, store/restore, insert Instructor Actions, etc.)
- Works concurrently with Orchid® Instructor Station version 5.27.1 (and later)
Orchid® Instructor Station Touch Version User Interface

Configurable Home Screen

Zoom Factor

Disable Tiles

Navigation
Orchid® Instructor Station Touch Version User Interface

Initial Conditions

Instructor Actions Browser
Orchid® Instructor Station Touch Version User Interface

iSimChart

Scenario Manager
Orchid® Instructor Station Touch Version User Interface

- Allows browsing between modeling schematics, system (active) schematics and virtual (soft) panels
Orchid® Instructor Station Touch Version Status

• L3 MAPPS collaborated with several customers (Technical Cooperation Agreements)
  – Thoroughly tested beta version of the Orchid® Instructor Station (Touch Version)
  – Extensive comments received and implemented by L3 MAPPS

• Many thanks to...

• Orchid® Instructor Station (Touch Version) v1.0.0 released in December 2017

• L3 MAPPS ultimate objective is to include all current Orchid® Instructor Station functionalities (control and editing features)
• L3 MAPPS is moving forward with deployment of the desktop version of Orchid® Instructor Station (Touch Version)
  – Supports desktop version using multiple monitors
  – Includes all existing functionalities of the current desktop instructor station
  – Includes title bar and borders to control application size and position
  – Undock tabular applications creating individual floating windows
Live Demo