InTouch on Terminal Services with ACP

ARCHITECTURE GUIDE

Description

Intouch with Terminal Server and ACP ThinManager Server Failover

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Concepts and Terms

To get started with Intouch for TSE please refer to this document.

ACP ThinManager

ThinManager is a server-side configuration, management, and hardware enabling software for Terminal Services based thin client systems.

ThinManager is a software program that allows thin clients to boot, receive a configuration, and connect to a terminal server. ThinManager provides terminal configuration, session management, and session status monitoring. ACP ThinManager provides quick replacement of terminals and an almost seamless switch from terminal server to terminal server in case of terminal server failure.

A thin client is a device that connects to a server, logs onto a separate independent session, and runs its applications on the server and not locally on the thin client. Thin Clients first connect to a ThinManager Server where it receives its configuration. This configuration sends the terminal to a terminal server where it logs in.

The keystrokes and mouse movements from the thin client are sent to the terminal server. The terminal server session determines the response and sends the screen display back to the terminal. This simplifies maintenance and management by eliminating the need to install and configure operating systems and applications on the thin client. All configuration, management, installation and applications
are on the server, not the thin client.

**How Thinmanager Works**
Display Clients can be generated by a traditional session running on a Terminal Server, a shadowed thin client, an image from an IP camera or VMWare® virtual machines. The sources of these displays are referred to as Display Servers.

ThinManager's MultiSession core technology allows you to view multiple Display Clients with a single thin client. Using session tiling you can even view up to 25 Display Clients on a single monitor.

TermSecure extends this functionality even more by allowing you to link Display Clients to a user instead of to a particular thin client. Users can then access their own displays simply by authenticating to any ThinManager-Ready thin client.

ThinManager renders display clients through a number of different types of thin client hardware available from multiple manufacturers.

ThinManager from ACP adds server-side management features including auto-creation, replacement, feature grouping, and downloadable modules for simpler configuration and greater functionality in a Terminal Services Environment

**Glossary of Terms**

**ACP**
Automation Control Products

**ACP Enabled Thin Client Network**
A ThinManager server, a terminal server, and ACP enabled thin clients connected and configured on the same network.

**Display Client**
The graphic rendering of the output from a Display Server. This could be a traditional Terminal Server session, IP Camera display, or a Terminal-to-Terminal Shadow session. Added in ThinManager 4.0.

**Display Servers**
Devices that provide content that can be displayed on the client. Examples include the traditional terminal server and IP cameras. Added in ThinManager 4.0
Enforce Primary
A ThinManager feature that allows terminals that failed over to a backup terminal server to return to their primary terminal server once the primary terminal server has returned online.

Failover
The ability of a terminal to switch to a backup server when the primary server fails.

HMI
Human-Machine Interface. A software program that allows an operator to control a manufacturing process. Also known as MMI, Man-Machine Interface.

Instant Failover
A ThinManager function that allows a ThinManager Ready thin client to start sessions on two terminal servers, with only the session of the primary terminal server visible. If the primary terminal server fails, the secondary session is immediately displayed.

Primary Terminal Server
The first terminal server that a terminal will log into.

Redundancy
The use of duplicate equipment so that if one unit fails, another one takes its place. ACP uses Redundancy for duplicate ThinManager Servers and uses Failover for duplicate terminal servers.

SCADA
Systems Control And Data Acquisition. A software program that gathers and displays data, and allows for operator input, for control of a manufacturing process.

Secondary Server
Backup terminal servers that a terminal may log into.

Terminal
A client device that relies on a server for operations. ThinManager Ready thin clients are terminals.
Terminal Server
A server with a multi-user operating system that processes data for terminals

Diagrams and Layouts

ACP ThinManager offers a centralized management solution for the modern factory & office by simplifying management of application and visual sources.

Notes and Warnings

Planning Consideration for Terminal Server Applications with Intouch and ACP

The following system specifications are supported. The following information was derived from the specific test plan and is not intended as a limitation.

TSE Platforms

- Hardware: 2.8 GHz with 2 GB RAM, 1 GB network switch
- Windows Server 2003 SP2 (32 and 64-bit version)
- Windows 7 and SP1
- Windows Server 2008 R2 and SP1

In Wonderware tests, the TSE Platforms were used for client connection only. The Platforms did not have App Engines. Each Platform was configured to be an alarm provider and was filtered to subscribe to eleven Areas. Each Platform was deployed to a Terminal Services machine.
Client Nodes

- Hardware: 2.8 GHz CPU with 1 GB RAM, 1 GB network switch
- Windows XP SP3 (32-bit only)
- Windows Vista SP2 (32/64-bit)
- Windows Server 2003 SP2 Standard and Enterprise (32-bit version)
- Windows 7 and SP1
- Windows Server 2008 R2 and SP1