PI System Management Tools 3.0

Benny Gallardo

Building New, Useful Tools
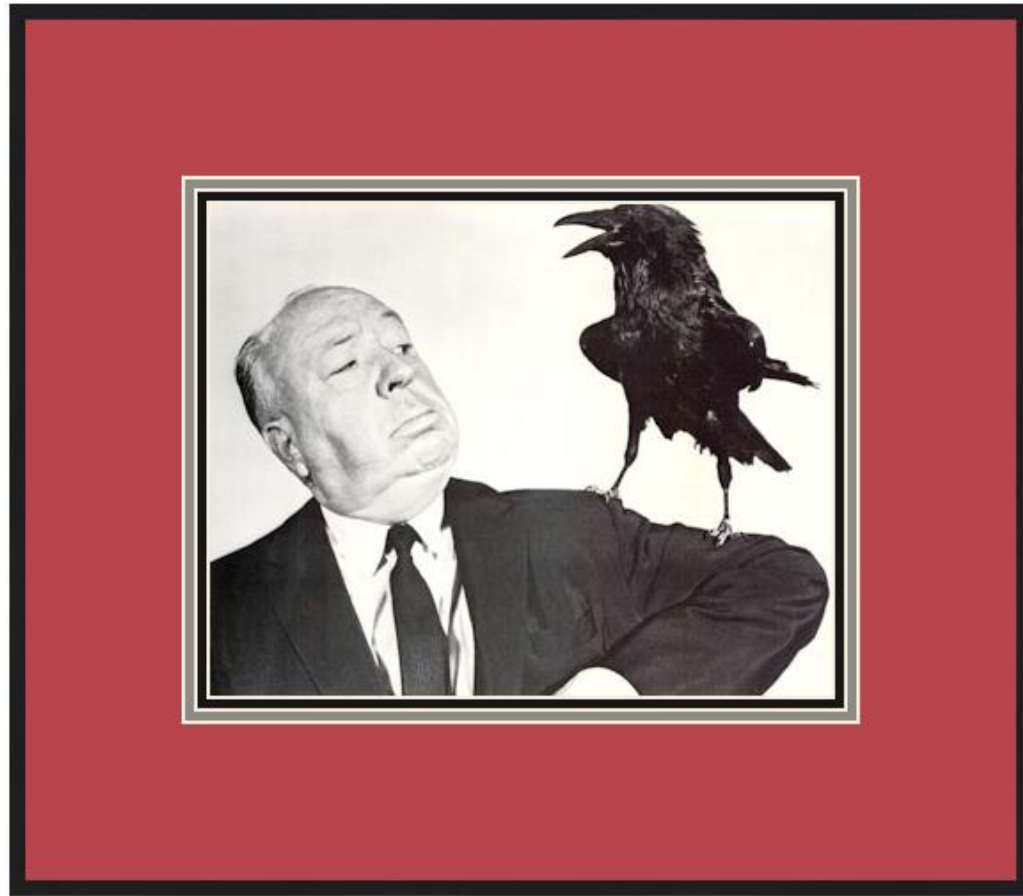
Shaping of Hooks by New Caledonian Crows

Outline

- *Introduction*

- *Design Goals*

- *The New SMT*

  - *Host & Plug-ins*

- *Upcoming Plug-ins*

- *Summary*

- *Credits & Preview CD*

Introduction

- *PI System Management Tools (SMT)*
  - *Administrative responsibilities*
    - *Security settings*
    - *Points*
    - *Archives*
    - *Interfaces*
    - *PI Server Monitoring*
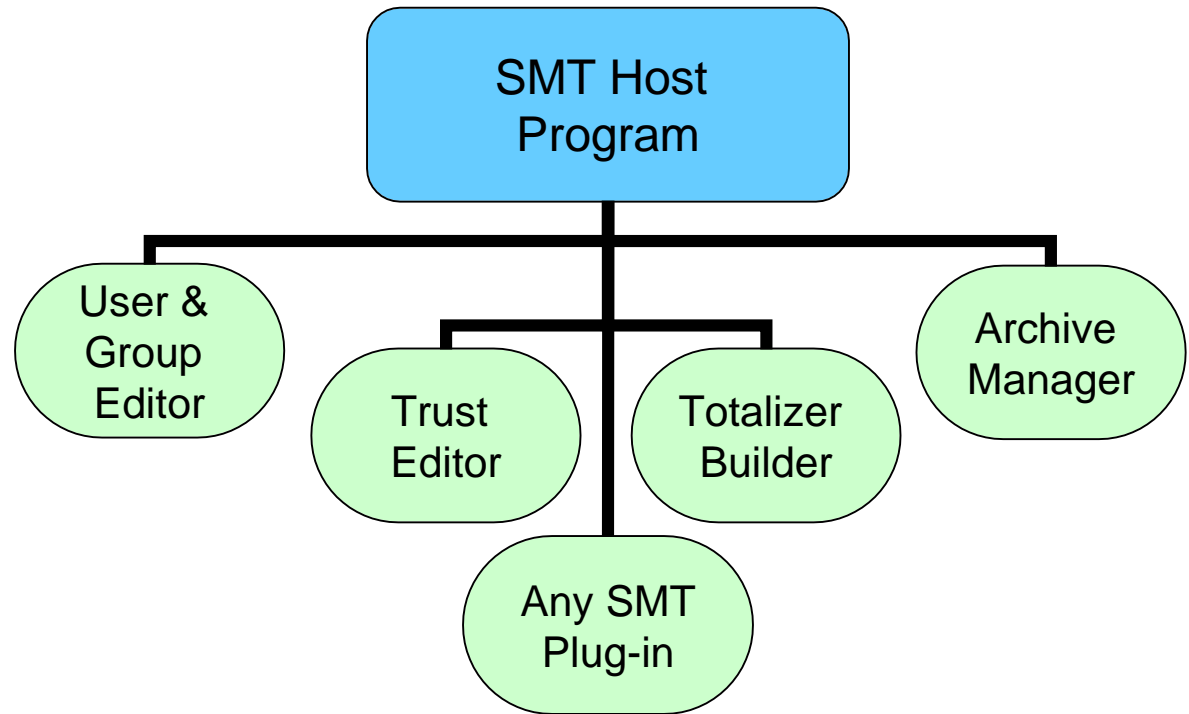
Design Goals for Version 3.0

- *Provide new tools*

- *Single launching point for all tools*

- *Multi-server capable*

- *Scalable & versatile*

- *Consistent, intuitive presentation*

- *Link to current tools*

The New SMT Structure

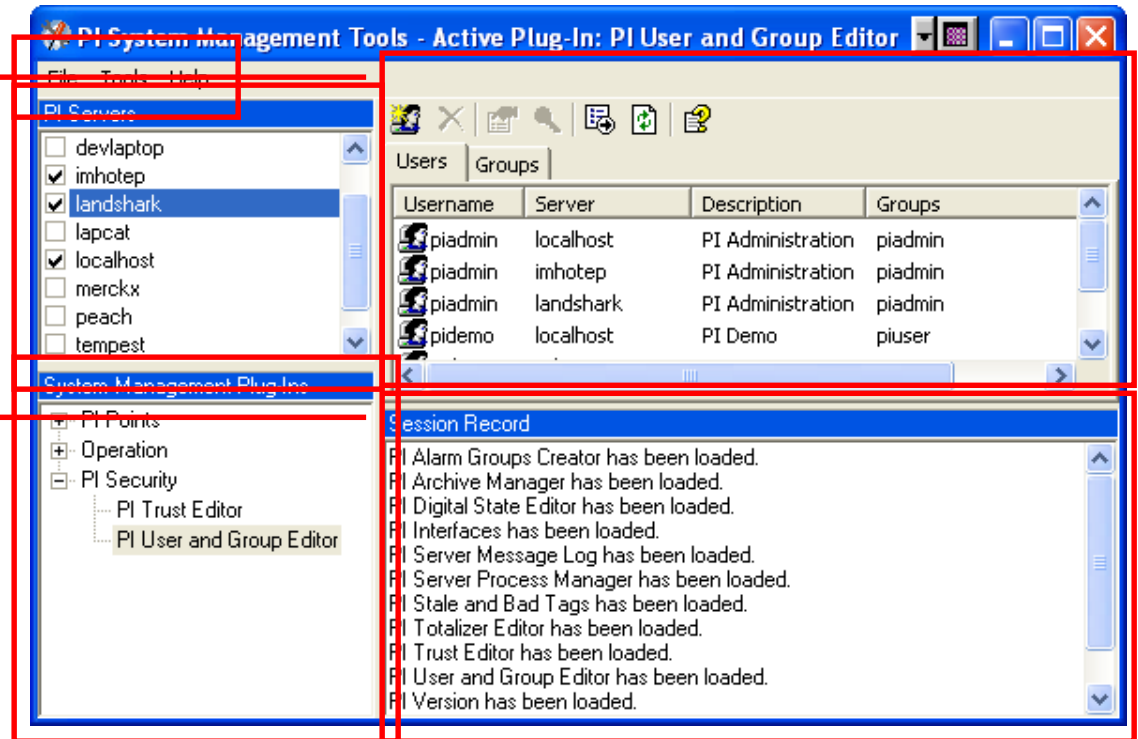- *Central SMT Host Program*

- *Plug-ins for functionality*

```
          ┌─────────────────┐
          │   SMT Host       │
          │   Program        │
          └─────────────────┘
```

User & Group Editor

Trust Editor

Totalizer Builder

Archive Manager

Any SMT Plug-in

The SMT Host

- *Menu Bar*

- *PI Server List*

- *Plug-in Tree*

- *Active Plug-in Pane*

- *Session Record*

PI System Management Tools 3.0

The SMT Host

- *Search for and load plug-ins*
- *Manage connections to PI Servers*
- *Provide links to existing tools*
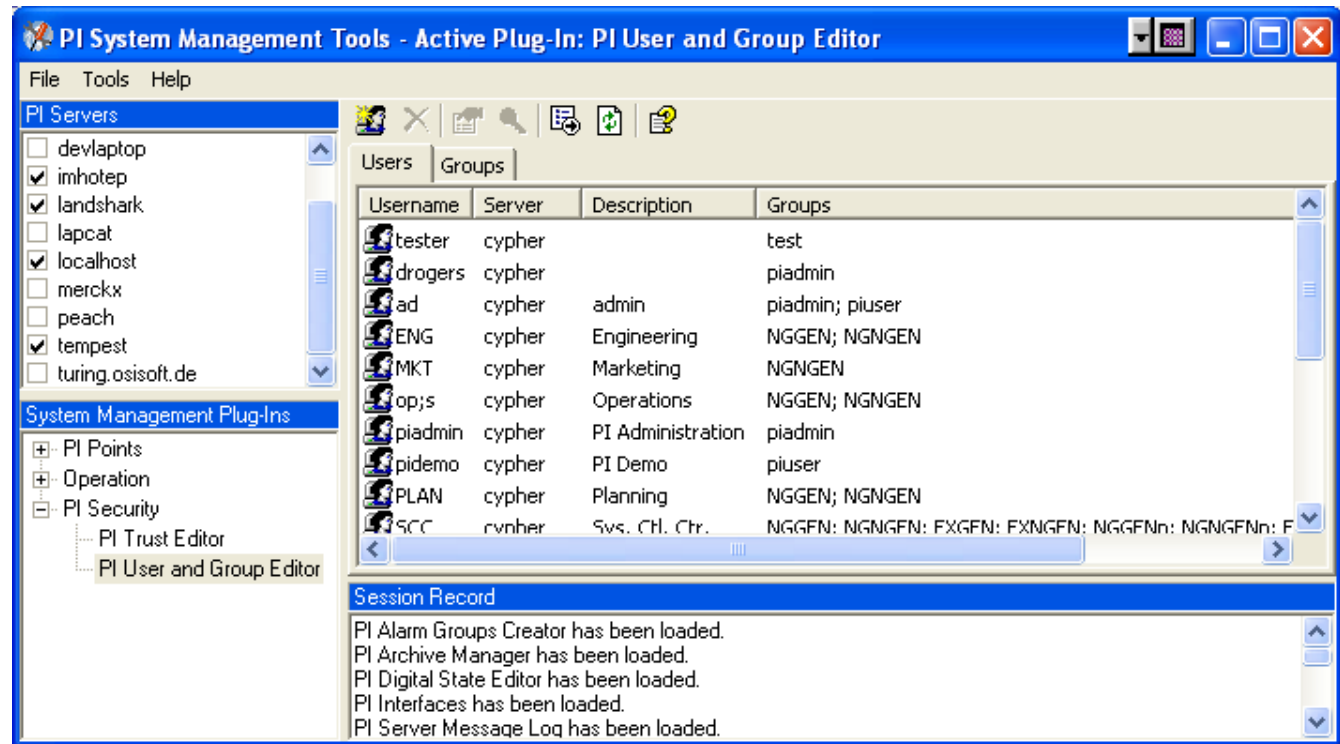- *Manage messages from all plug-ins*

SMT Plug-ins

- *Building blocks of functionality*
- *Single-purpose tools*
- *Recognizable by host*
- *Adhere to development guidelines*
  - *presentation format*
  - *interaction with host*
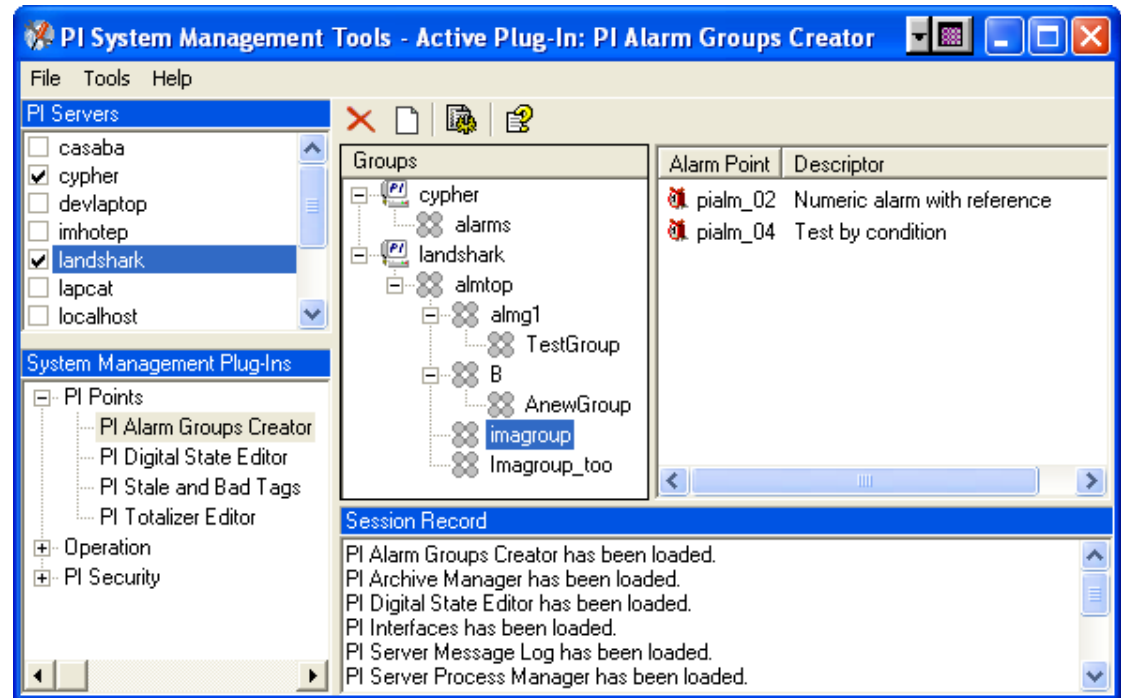 - *user help style*
  - *error messaging*

PI User and Group Editor

- *Create new users and groups*
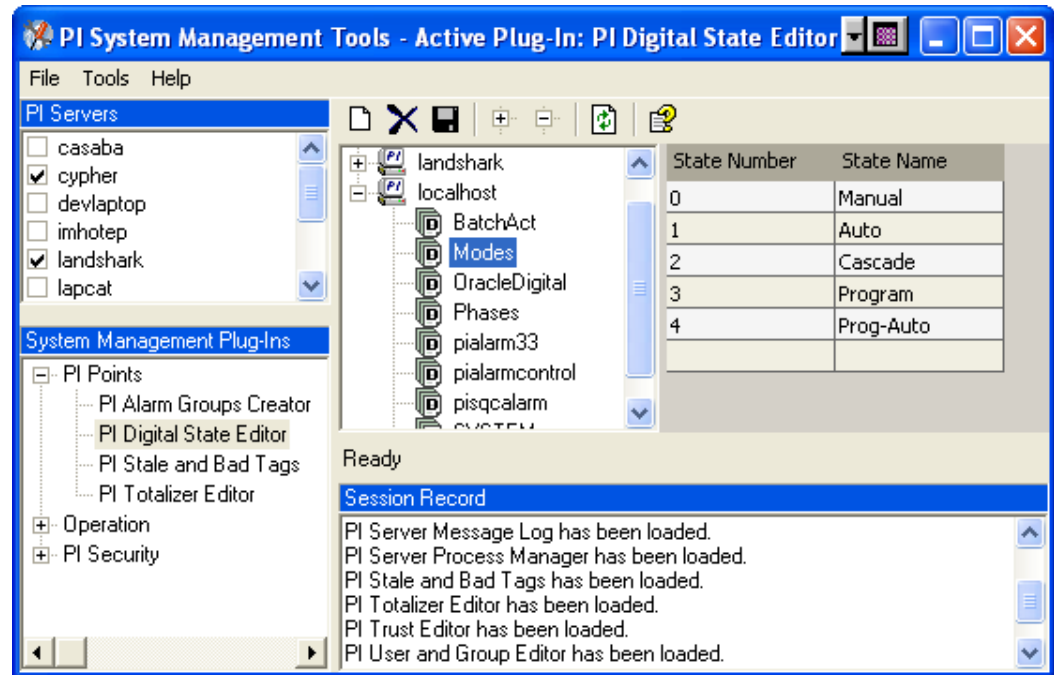
- *Edit existing users and groups*

PI Alarm Groups Creator

- *View, edit, and create alarm groups*

- *Move groups*

- *Move alarm and SQC points*
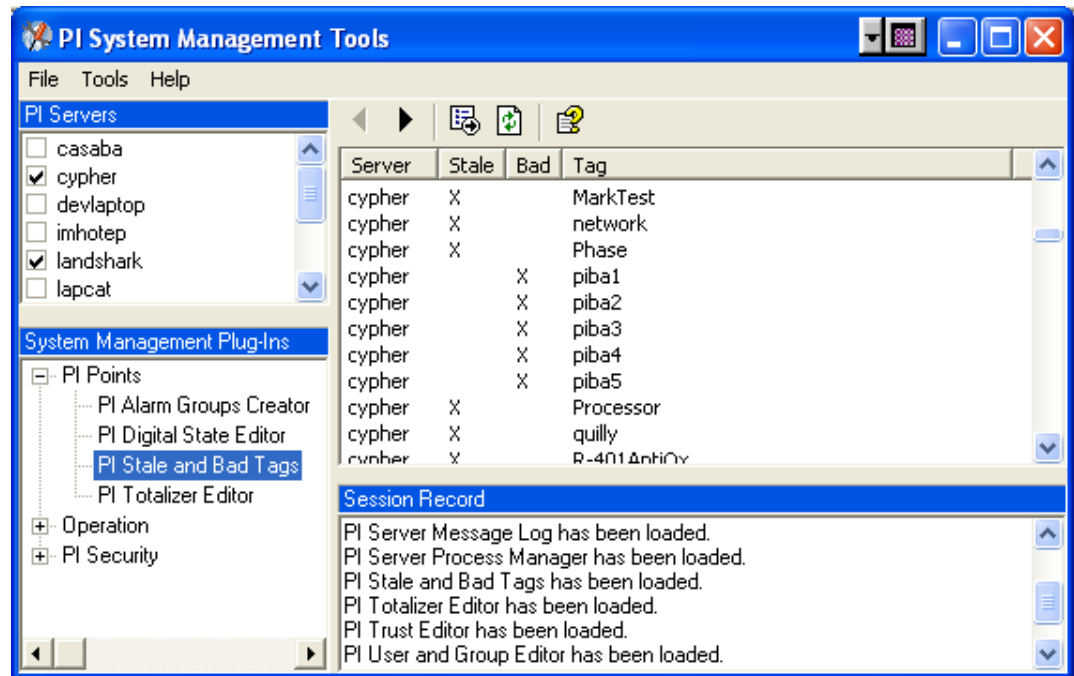
Digital State Editor

- *View, edit, and create digital state sets*

- *Copy sets*[*]

- *Rename sets* [*]

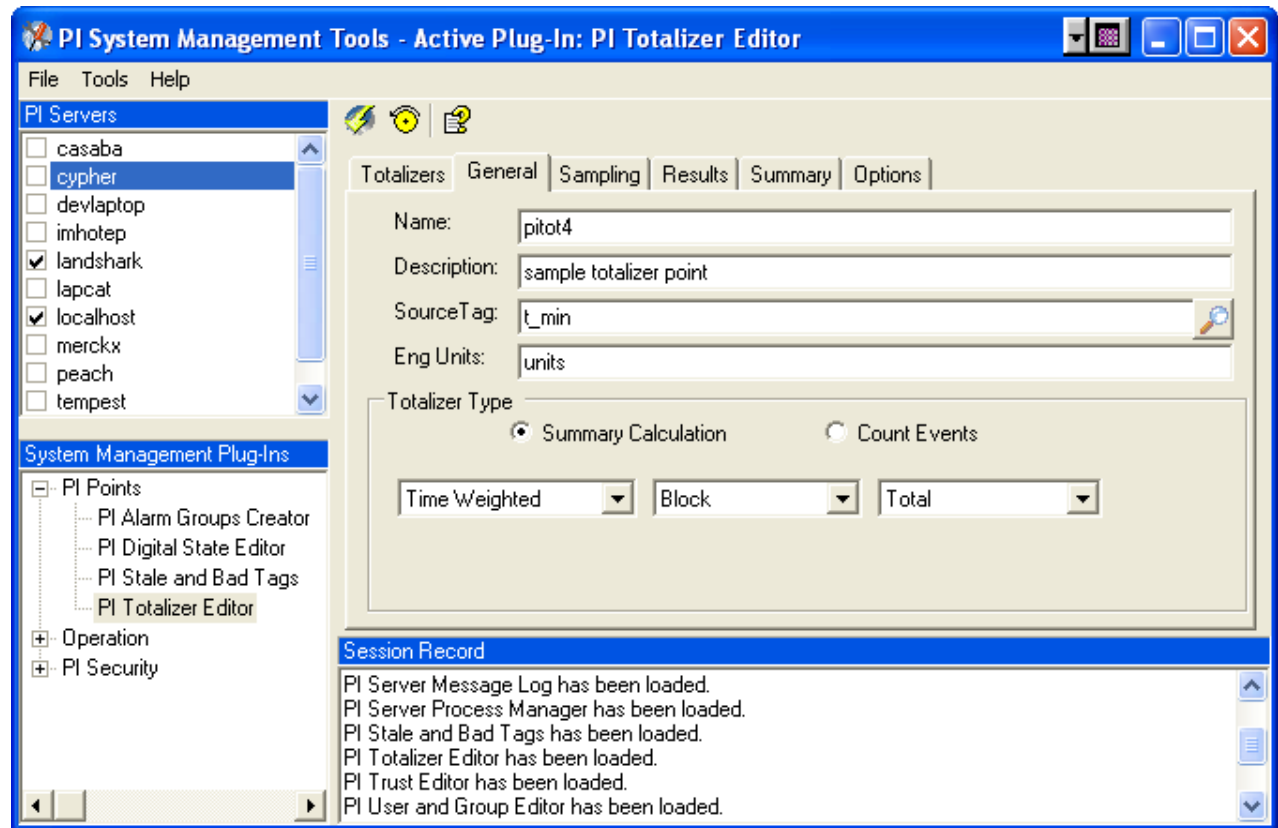*[*] Feature available in release version but not preview version

Stale and Bad Tag Viewer

- *Stale tags have not updated within 4 hrs.*

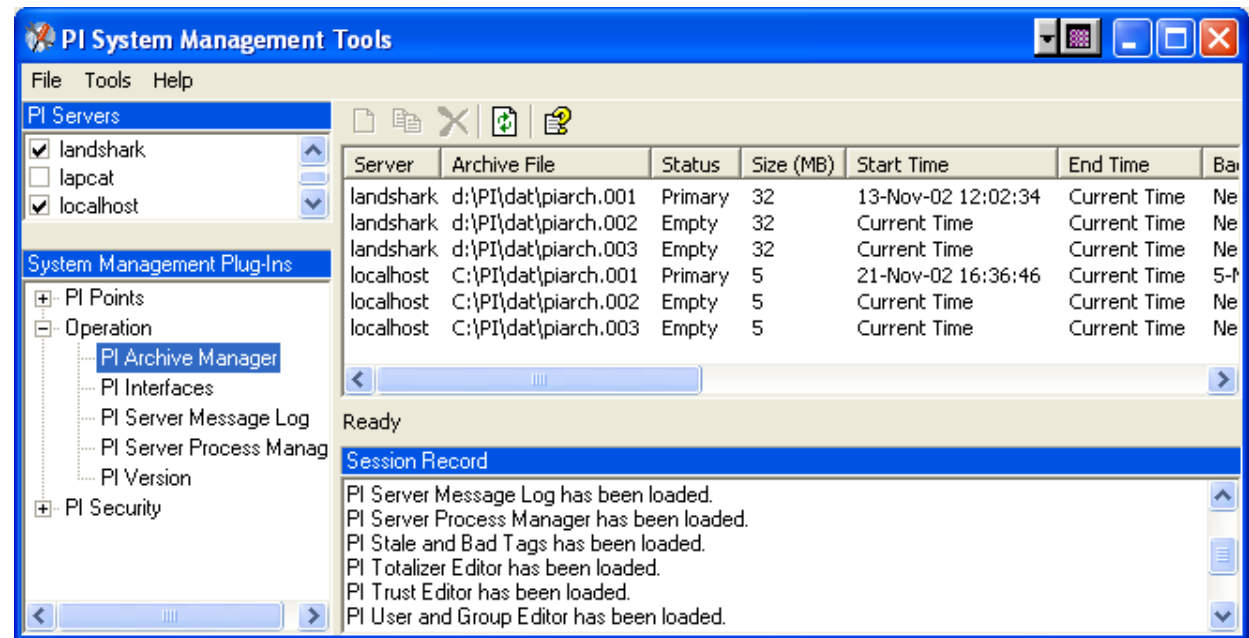- *Bad tags have a status from system digital state set*

Totalizer Editor

- *Create and edit totalizer points*

- *Simplified construction method*

- *Wizard-like interface*

Archive Manager

- *List all registered archives*

- *View archive details*

- *Backup archives*

- *Force an archive to shift**
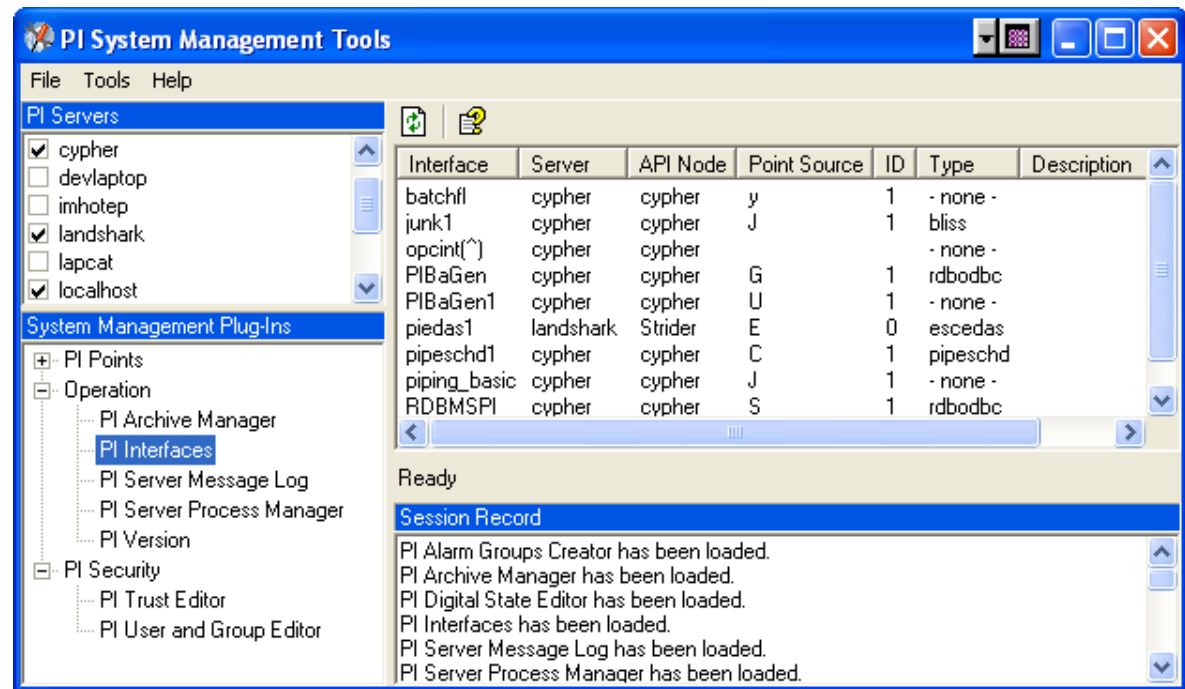
- *Register & un-register archives**

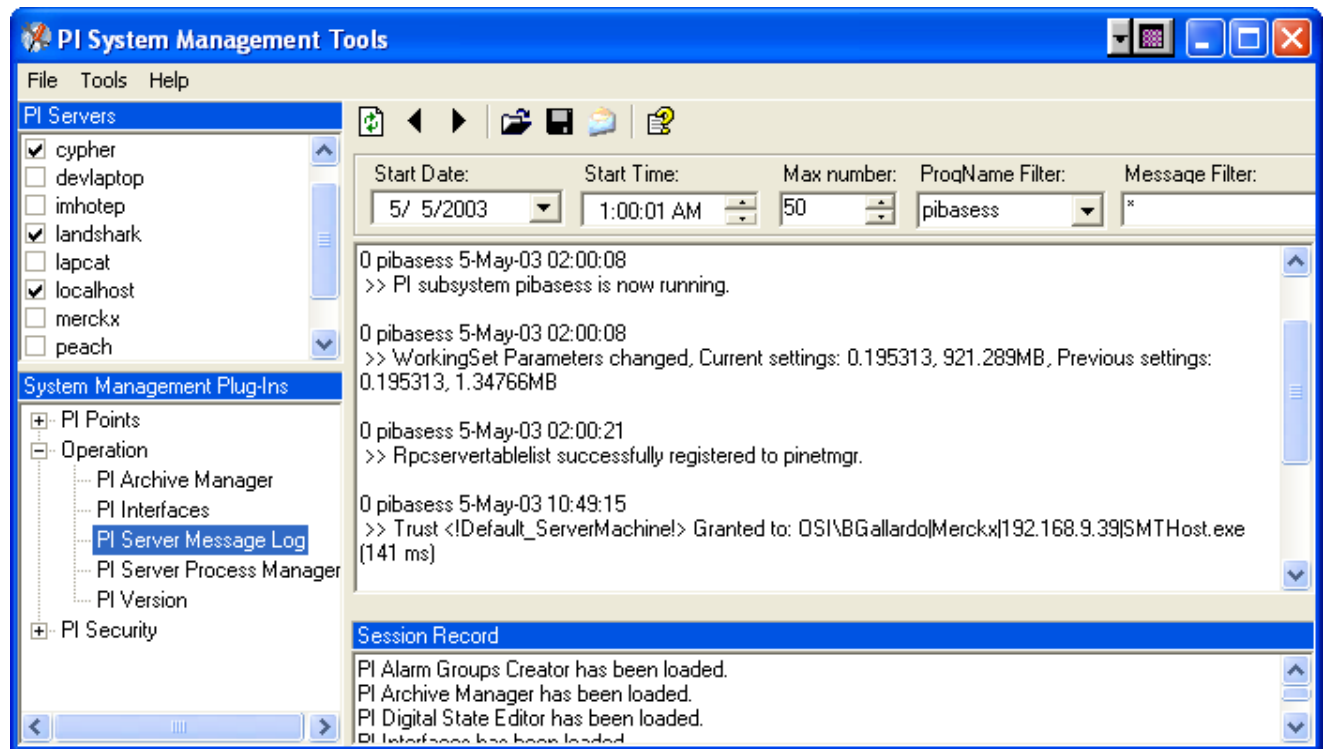* Feature available in release version but not preview version

Interface Viewer

- *List interfaces managed by the PI- ICU*

- *View details*
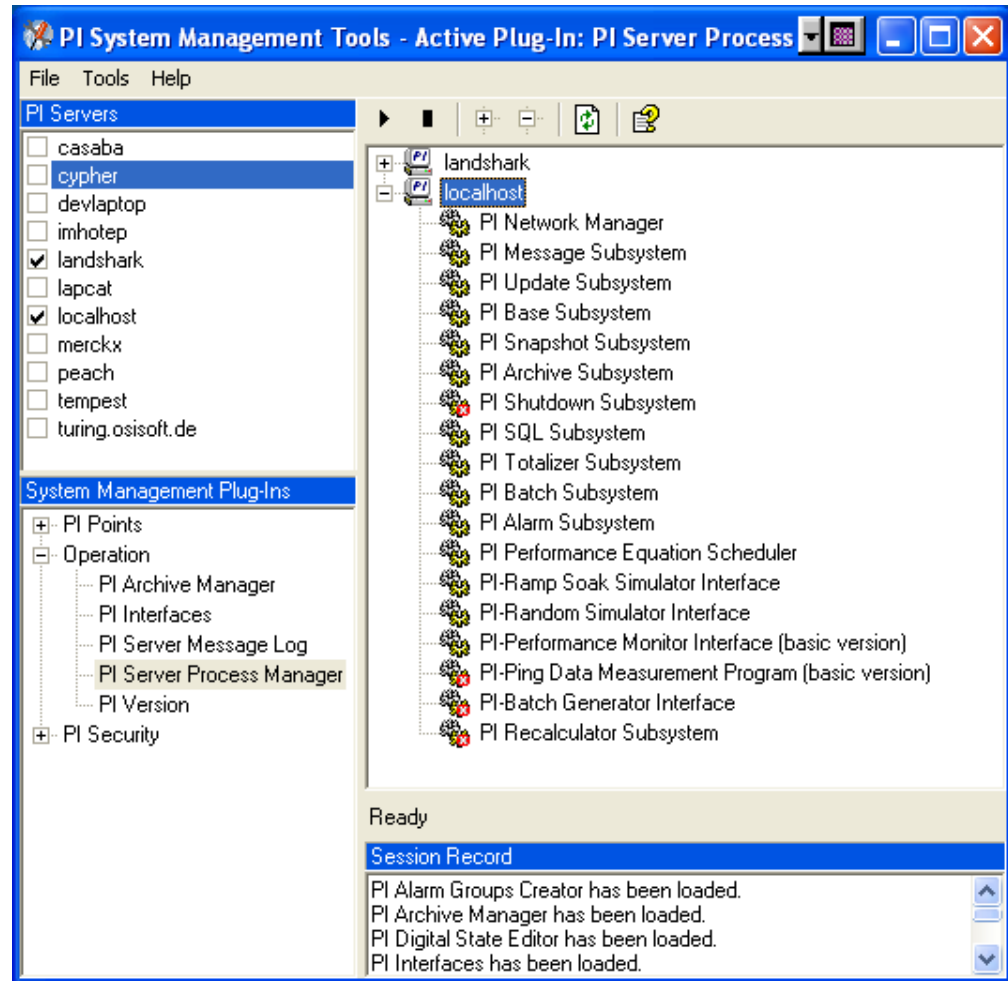 - *point source*
  - *interface ID*
  - *interface node name*

Message Log Viewer

- *Server logs*

- *pipc logs*

- *Process & keyword filters*

- Save as text file

- E-mail to tech support

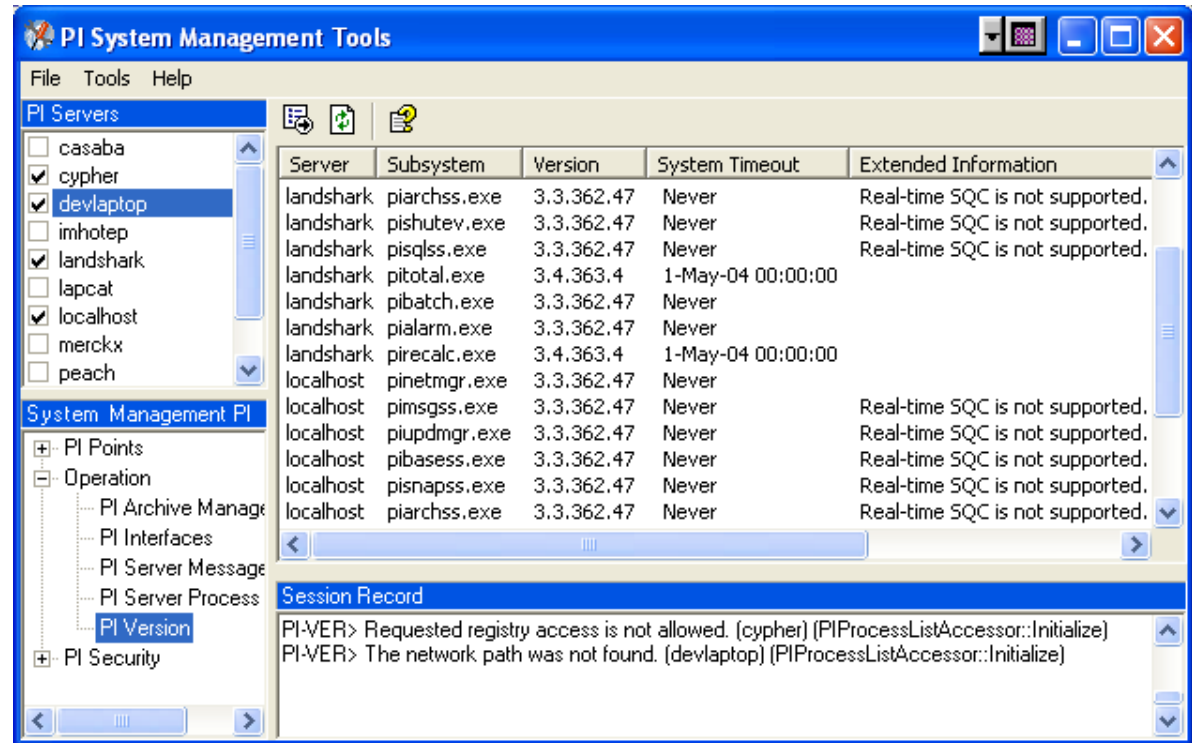

PI System Management Tools 3.0

PI Server Process Manager

- *View current status of PI services*
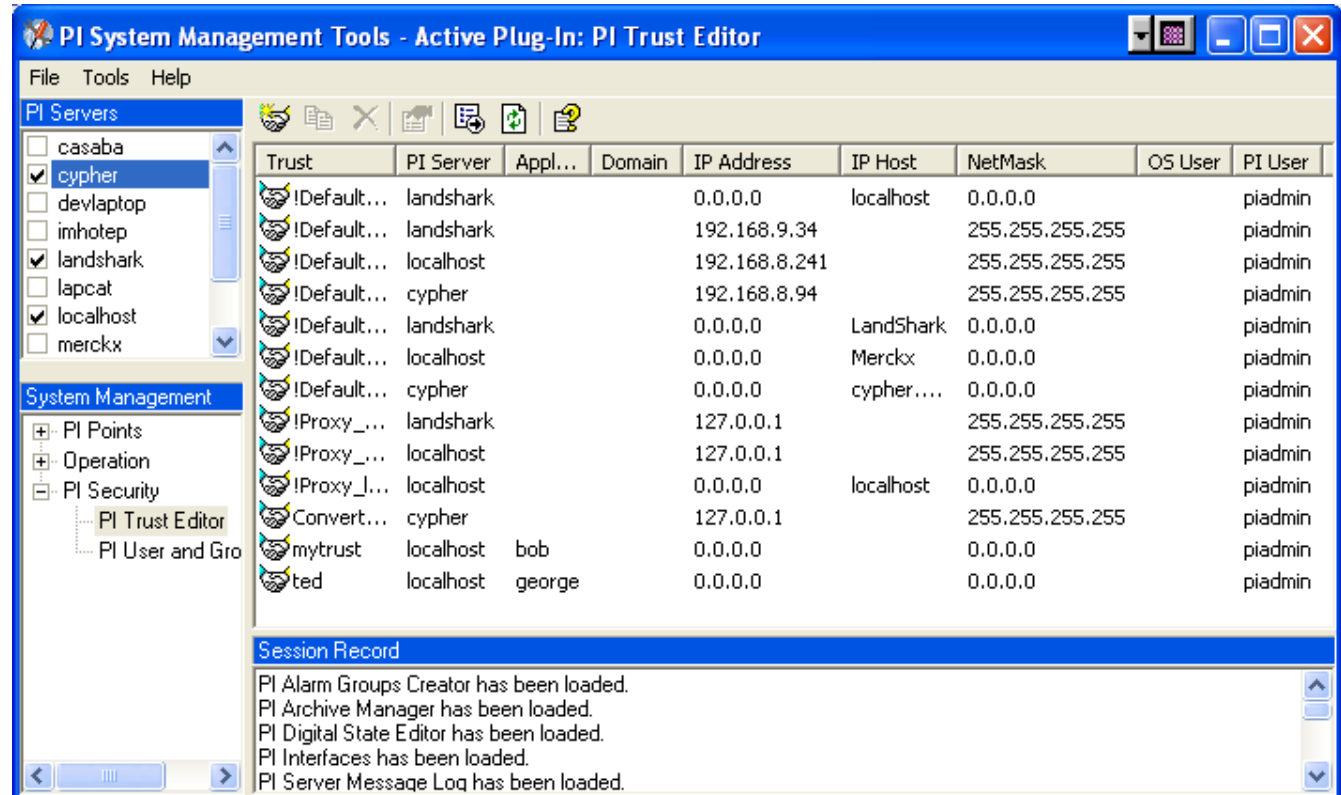
- *Stop & start PI services*

PI Version Viewer

- *View versions of PI subsystems*

- *See time-out dates, tag limits, & optional settings*

PI Trust Editor

- *Wizard tool for building new trusts*

- *View & edit existing trusts*

PI System Management Tools 3.0

System Requirements

- *Server*
  - *PI 3.3 SR1 and higher*
  - *Windows-Intel Platform*
- *Client*
  - *.NET Framework*
  - *PI SDK 1.3.0 build 208 and higher*
- *Some support for PI 2 and Unix*

Upcoming Plug-ins

- *Focus on providing new functionality*
  - *Archive editor*
  - *Server diagnostics tool*
  - *Alarm point builder*
  - *Performance equation builder*
  - *Requested plug-ins?*

Summary

- *Design goals*
- *New SMT Host & Plug-ins*
- *Available plug-ins*
  - *Points*
    - *alarm group creator, digital state editor, stale & bad tags, totalizer editor*
  - *Operation*
    - *archive manager, interfaces viewer, message log viewer, server process manager, PI version viewer*
  - *Security*
    - *trust editor, user and group editor*
- *Upcoming plug-ins*

SMT Development Team

- *Ted Groskiewicz*
- *Holly Beeson*
- *Brian Young*
- *Dave Rogers*
- *Chad Chisholm*
- *Harri Talvala*
- *Benny Gallardo*

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