

Solutions for Performance Driven Companies
Microsoft Enterprise Open Source

Internationalization Capabilities
Version 9

Aras Community Network

International Event: Spring 2008

May 7, 2008



- ❖ Multiple Languages
- ❖ Locale-Specific User Interface
- ❖ Multiple Language User data
- ❖ Universal Date-Time handling

- ❖ Multi-Lingual Properties
- ❖ Locale-Neutral Data Formats
 - ✓ Date Time
 - ✓ Decimal
 - ✓ Float
- ❖ Unicode Data Support
- ❖ Unicode Vault Support

Framework Changes



❖ Setting new languages

The screenshot displays the Aras Innovator web application interface. The main window shows the 'Language' configuration page with a table of existing languages. A secondary window titled 'Language - German (read only)' is open, showing the details for the German language entry.

| Code | Name | Suffix | Collation |
|------|---------|--------|-----------|
| de | German | _de | |
| en | English | | |
| zc | zc-CN | _zc | |
| zh | zh-CN | zh | |

Language - German (read only) details:

- Code: de
- Name: German
- Suffix: _de
- Collation:

Framework Changes



❖ Setting new locales

The screenshot shows the Aras Innovator web application interface. The main window displays the 'Locales' management page. The left sidebar contains a tree view with categories like Administration, Actions, Calendars, Dashboards, Database Upgrades, E-Mail Message, Files, FileTypes, Forms, Grids, Identities, ItemTypes, Languages, Life Cycle Maps, Lists, Locales (selected), Methods, PackageDefinitions, and Permissions. The main content area shows a table of existing locales and a metadata section.

| Code | Name | Language [...] |
|-------|----------------------|-------------------------|
| de-DE | German Germany | German |
| en-US | U.S. English | English |
| zc-CN | Chinese - PRC | zc-CN |
| zh-CN | Chinese - Simplified | zh-CN |

Metadata for the selected locale:

Created By: **Super User**
Created On: **5/6/2008**
Modified By: **Super User**

The secondary window, titled 'Locale - de-DE (read only)', shows the details for the new locale:

Code
de-DE

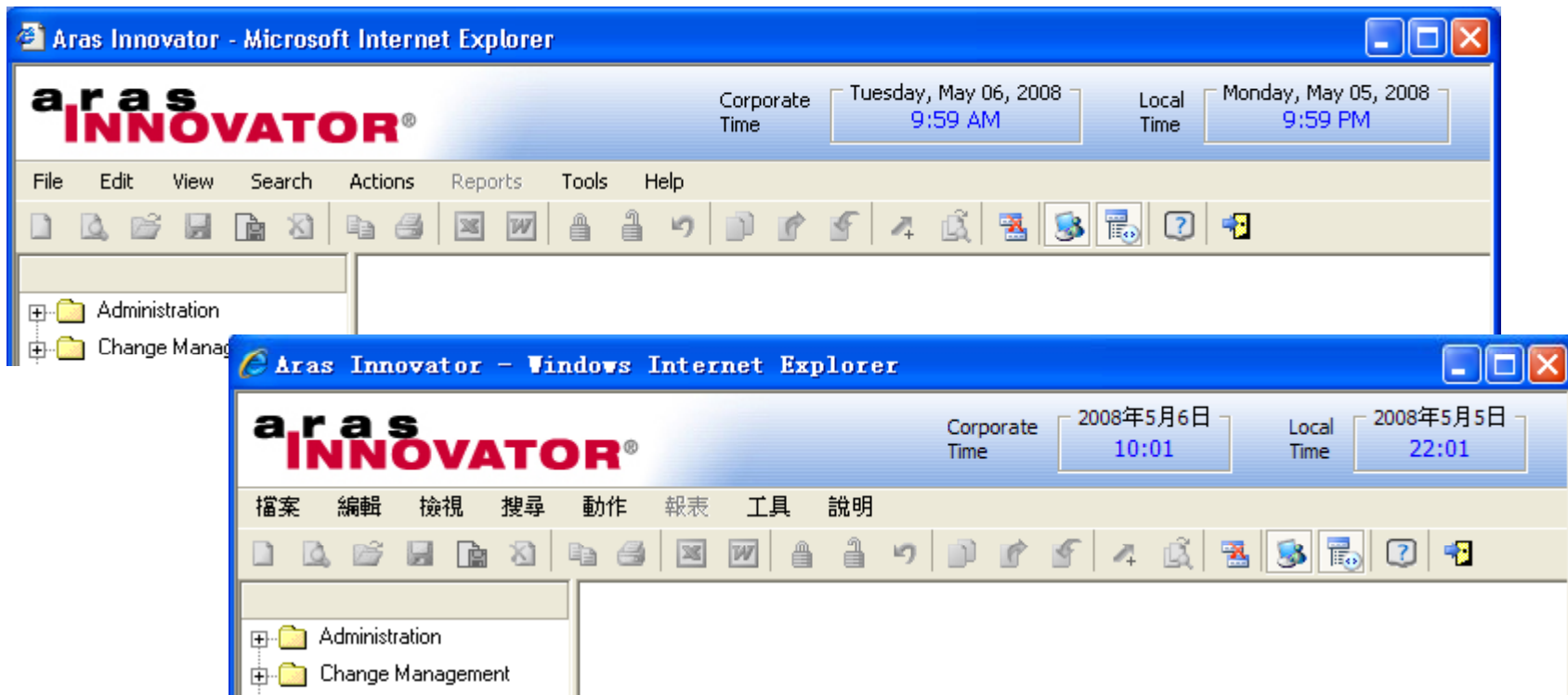
Name
German Germany

Language
[German](#)

Client Changes



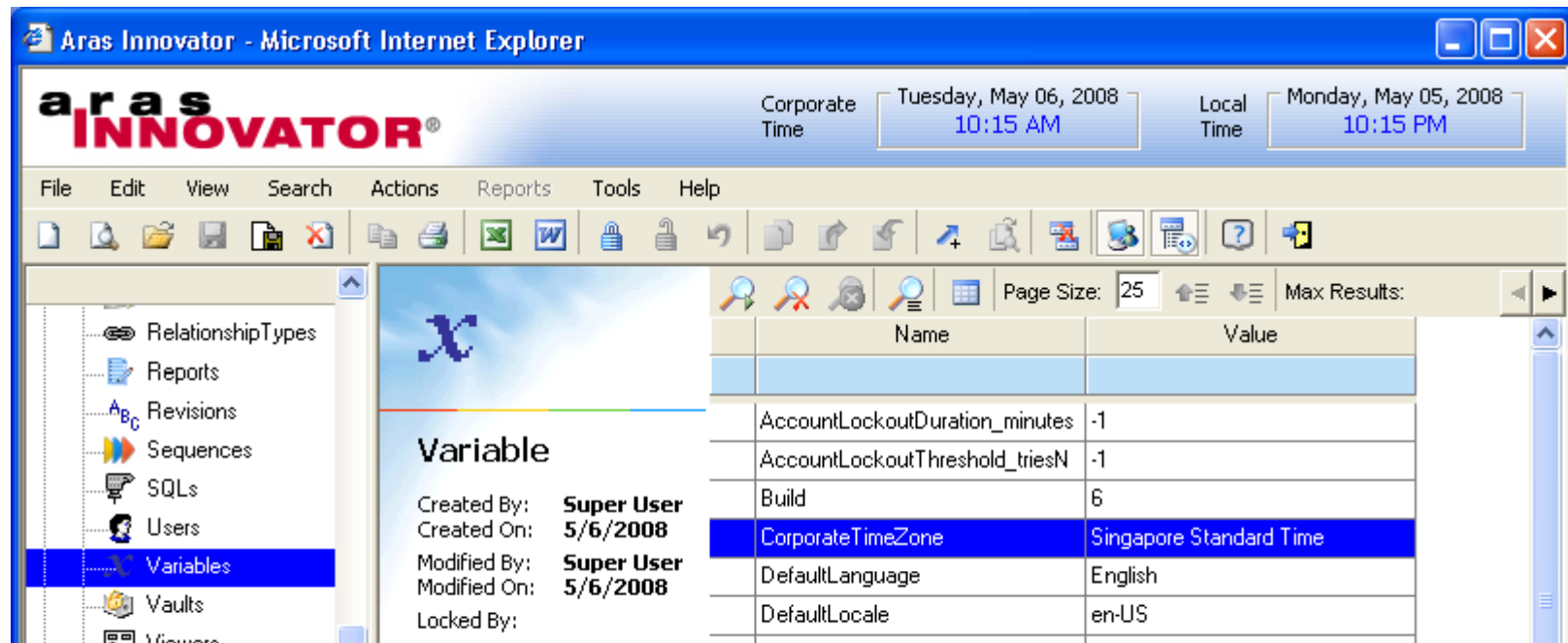
❖ Local and Time Zone Awareness



❖ Time Zone Setting

- ✓ New Variable = CorporateTimeZone
- ✓ Time Zone Name = Registry Name

- HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Time Zones



The screenshot shows the Aras Innovator web application interface. At the top, it displays the corporate and local times: Corporate Time is Tuesday, May 06, 2008, 10:15 AM, and Local Time is Monday, May 05, 2008, 10:15 PM. The main content area shows a list of variables with the following data:

| Name | Value |
|--------------------------------|--------------------------------|
| AccountLockoutDuration_minutes | -1 |
| AccountLockoutThreshold_triesN | -1 |
| Build | 6 |
| CorporateTimeZone | Singapore Standard Time |
| DefaultLanguage | English |
| DefaultLocale | en-US |

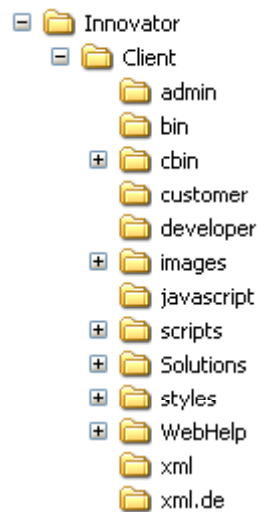
Metadata for the selected variable:

Variable
Created By: **Super User**
Created On: **5/6/2008**
Modified By: **Super User**
Modified On: **5/6/2008**
Locked By:

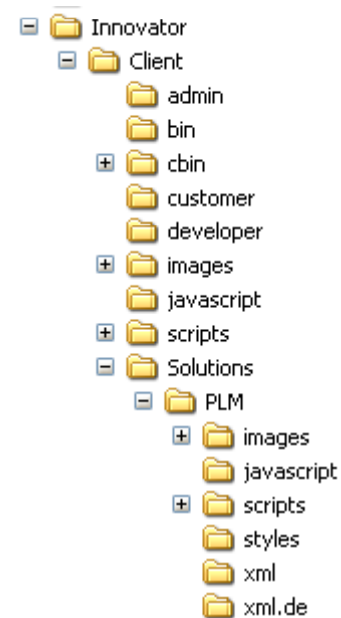
❖ UI Resources

Files that control the Menus, Toolbars, etc.

Core xml



Solutions xml



Client Changes



❖ Multi-Lingual Dialog

The screenshot shows the Aras Innovator web interface. The main window is titled 'ItemType - Document (read only) - Microsoft Internet Explorer'. The interface includes a menu bar (File, Edit, Views, Actions, Reports, Tools, Help), a toolbar, and a main content area. The main content area is divided into several sections: 'Name' (Document), 'Default Life Cycle' (Document), 'Singular Label' (Document), 'Default Structure View' (Tab View), 'Versioning' (Versionable checked, Manual Versioning unchecked, Revisions Default), and a list of checkboxes (Save History, Unlock On Logout, Dependent, Use Src Access, Is Relationship, Allow Private Permissions). A 'Multilingual Entry -- Web Page Dialog' is open in the foreground, showing input fields for German (Dokument), English (Document), zc-CN (文件), zh-CN (文件), and zt-TW (文件). Below the dialog, there is a table with columns for Name, Label, and other properties. The table contains the following data:

| Name | Label | | | | | | | | | | | |
|------------------------|------------------------|--------|---------------------------------|-----|--|--|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|------|
| authoring_tool | Authoring Tool | List | Authoring Tools | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Left |
| authoring_tool_version | Authoring Tool Version | String | | 32 | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Left |
| classification | Type | String | | 512 | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Left |
| config_id | | Item | Document | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Left |

The status bar at the bottom shows 'Ready' and 'Items 1-34 of 34. Page 1 of 1'. The Aras Innovator logo is visible in the bottom right corner.

Client Changes



❖ Language Display

The screenshot shows two overlapping browser windows displaying the Aras Innovator web application. The top window is in English, and the bottom window is in Chinese, demonstrating the language display change.

English Window (Top):

- Name: Document
- Singular Label: Document
- Plural Label: Documents
- Default Life Cycle: Document
- Default Structure View: Tab View
- Versioning: Versionable Manual Versioning Revisions Default
- Save History Unlock On Logout Dependent
- Search: Auto Search Default Page Size 25 Max Records
- Implementation Type: Single Item Poly Item Federated Item

Chinese Window (Bottom):

- Name: Document
- Singular Label: 文件
- Plural Label: 文件
- Default Life Cycle: Document
- Default Structure View: Tab View
- Versioning: Versionable Manual Versioning Revisions Default
- Save History Unlock On Logout Dependent Use Src Access Is Relationship Allow Private Permissions
- Search: Auto Search Default Page Size 25 Max Records
- Implementation Type: Single Item Poly Item Federated Item

Table: Properties

| Name | Label | Data Type |
|------------------------|------------------------|-----------|
| authoring_tool | Authoring Tool | List |
| authoring_tool_version | Authoring Tool Version | String |
| classification | Type | String |
| config_id | | Item |

Table: Properties (Chinese)

| Name | Label | Data Type | Data Source [...] | Length | Precisio | Scale | Required | Unique | Indexed | Hidden | Hidden2 | Aligr |
|------------------------|------------------------|-----------|-------------------|--------|----------|-------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------|
| authoring_tool | Authoring Tool | List | Authoring Tools | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Left |
| authoring_tool_version | Authoring Tool Version | String | | 32 | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Left |
| classification | Type | String | | 512 | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Left |
| config_id | | Item | Document | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Left |

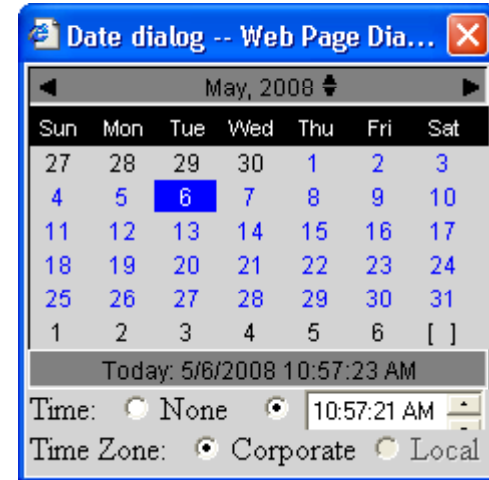
Client Changes



❖ Date Entry

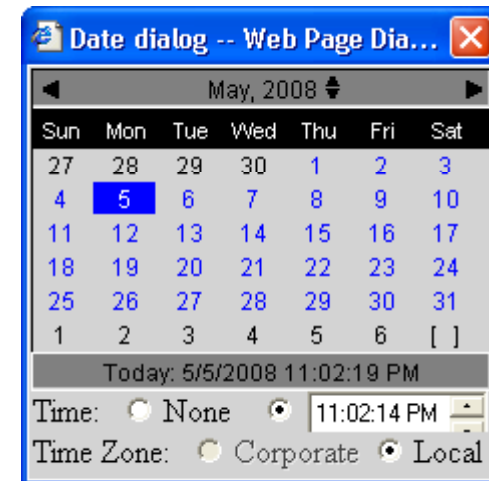
✓ Corporate Time Zone Enabled

Date-Time is based Corporate Time



✓ Corporate TimeZone Disabled

Date-Time is based on Client Time



❖ Date-Time Formatting

- ✓ MM-dd-yyyy formats are gone
- ✓ Short Date, Short Date + Time, Long Date, and Long Date + Time are the new formats

- ✓ Displayed format controlled by client regional settings.

