

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 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 'de-DE' locale:

Code
de-DE

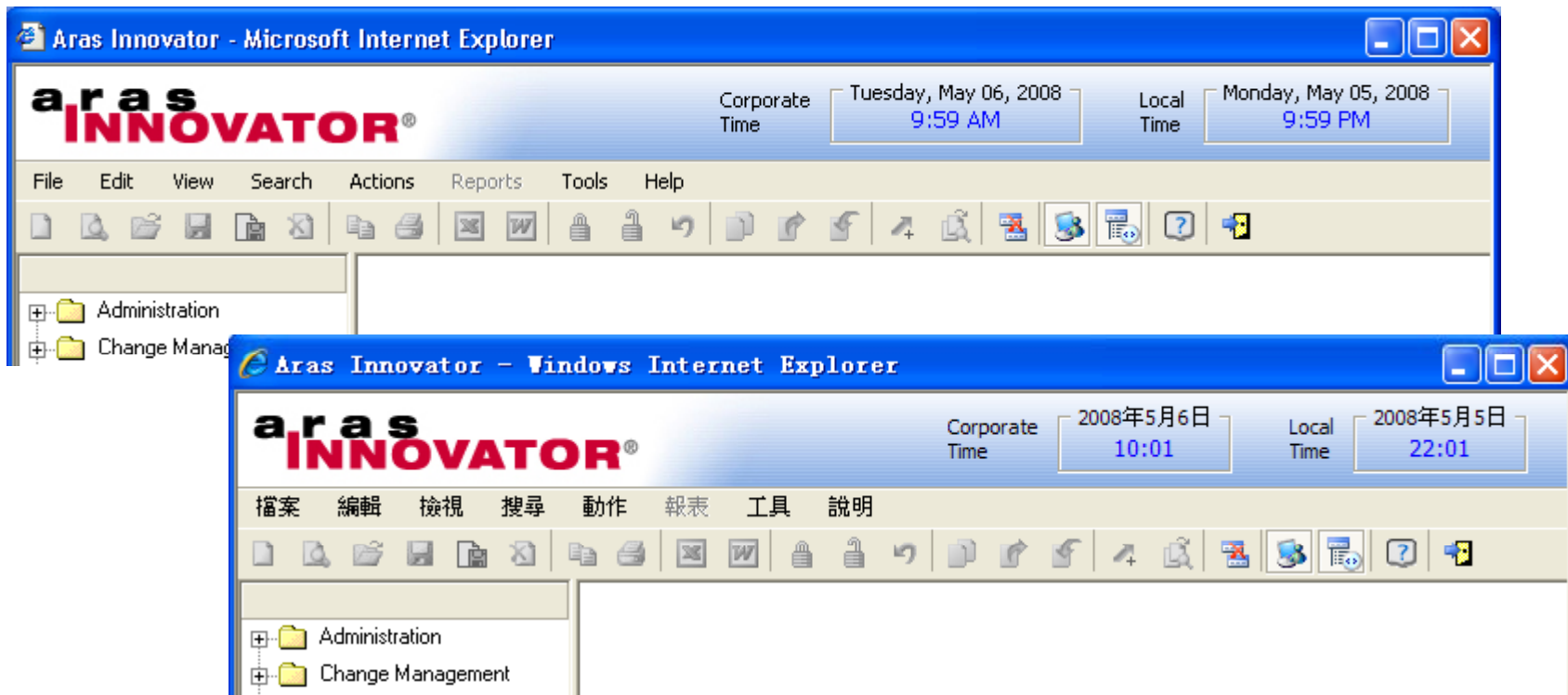
Name
German Germany

Language
[German](#)

Client Changes

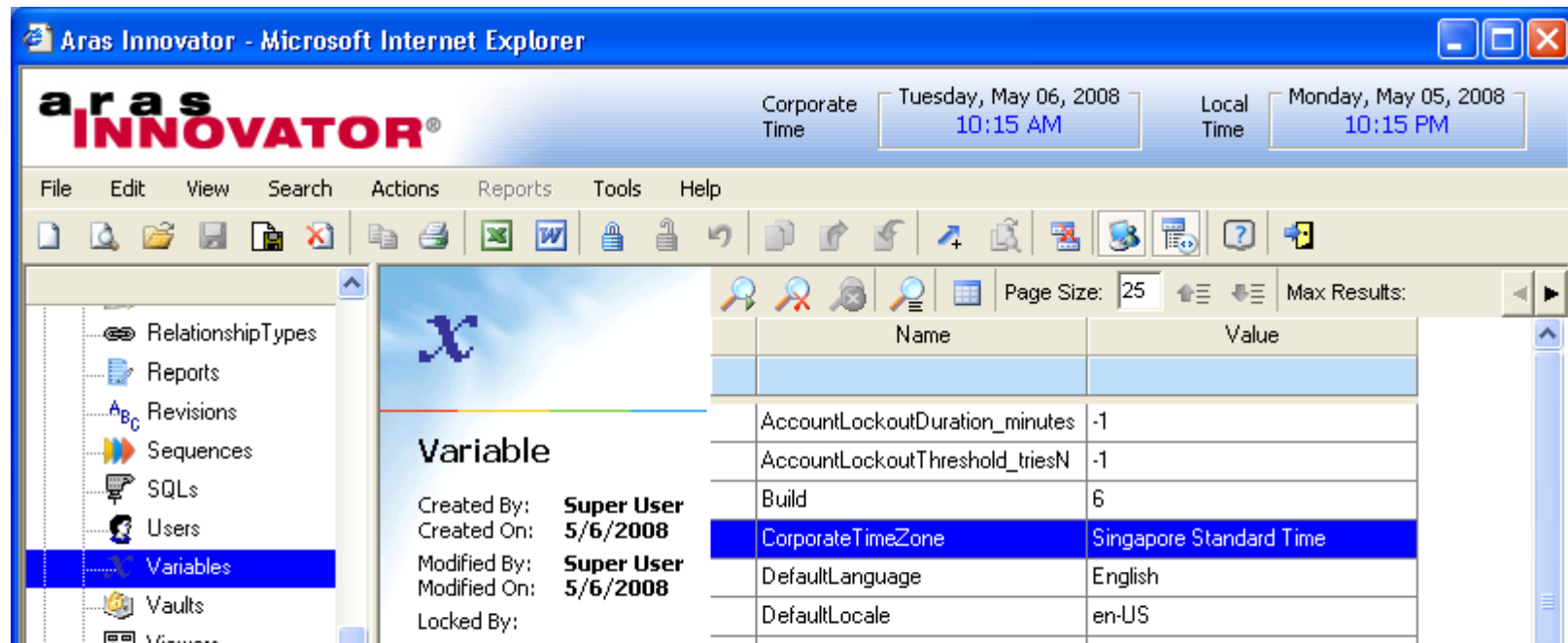


❖ Local and Time Zone Awareness



❖ Time Zone Setting

- ✓ New Variable = CorporateTimeZone
- ✓ Time Zone Name = Registry Name
 - HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Time Zones



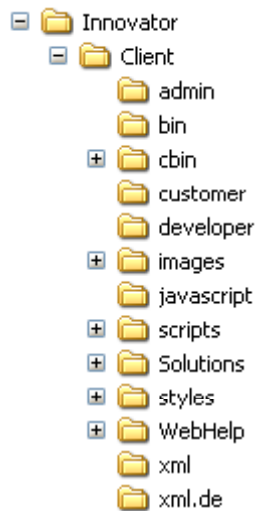
The screenshot shows the Aras Innovator web application interface. At the top, it displays the corporate and local times: Corporate Time is Tuesday, May 06, 2008, 10:15 AM, and Local Time is Monday, May 05, 2008, 10:15 PM. The main content area shows a list of variables, with 'CorporateTimeZone' highlighted. The variable details show it was created and modified by 'Super User' on '5/6/2008'. A table below lists various system variables and their values.

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

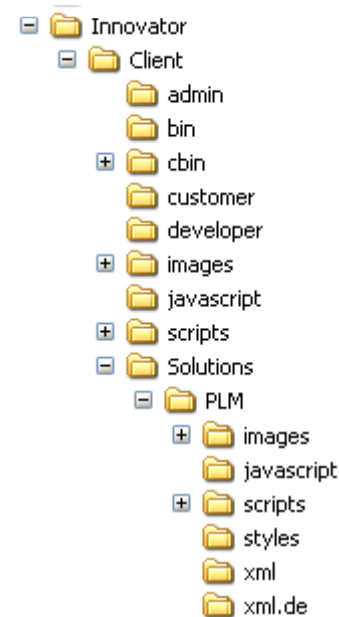
❖ UI Resources

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 'Item Type' section shows 'Document' as the selected item type. A 'Multilingual Entry -- Web Page Dialog' is open, allowing the user to enter labels for the 'Document' item type in various languages: German (Dokument), English (Document), zc-CN (文件), zh-CN (文件), and zt-TW (文件). The dialog also has checkboxes for 'Save History', 'Unlock On Logout', 'Dependent', 'Use Src Access', 'Is Relationship', and 'Allow Private Permissions'. The main content area shows a table of item types and their properties.

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

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

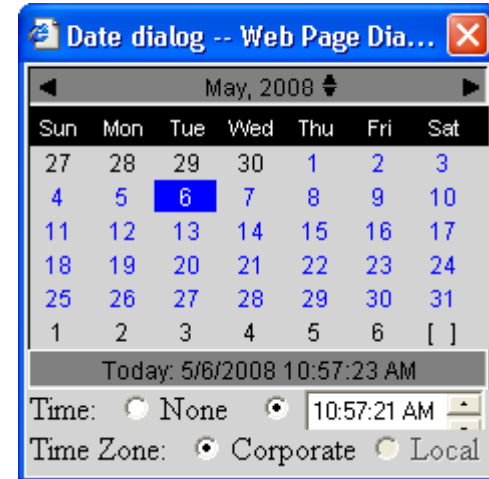
Client Changes



❖ Date Entry

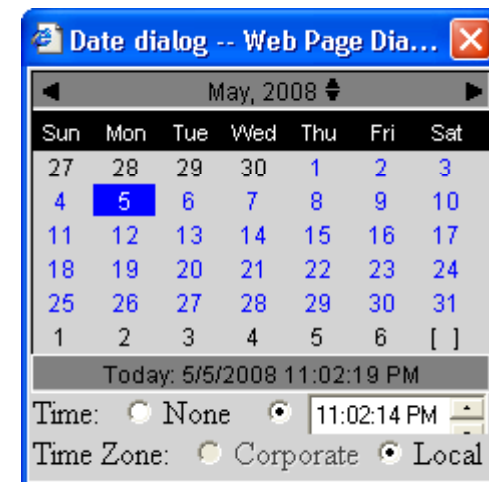
✓ Corporate Time Zone Enabled

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.

