

Release Notes



IBM® Tivoli® Identity Manager

SAP NetWeaver Adapter

Version 5.0.7/5.1.7

Second Edition (March 31, 2012)

This edition applies to version 5.0 of Tivoli Identity Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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Preface

Welcome to the IBM Tivoli Identity Manager SAP NetWeaver Adapter.

These Release Notes contain information for the following products that was not available when the IBM Tivoli Identity Manager manuals were printed:

- IBM Tivoli Identity Manager Adapter for SAP NetWeaver Installation and Configuration Guide

Preface

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Contents of this Release

Adapter Version

Component	Version
Release Date	March 31, 2012
Adapter Version	5.0.7/5.1.7
Component Versions	Adapter Build: 5.0.7/5.1.7 Profile: 5.0.7/5.1.7 AL Version: 5.0.7/5.1.7 Connector: 5.0.7/5.1.7
Documentation	Adapter for SAP NetWeaver Installation and Configuration Guide SC23-9660-00

New Features

Enhancement # (FITS)	Description
	Items included in 5.0.7/5.1.7 release
MR0915114459	SAP GRC: Support for SAP GRC V10
MR022311456	SAP GRC: Support for SAP GRC V10
MR0719116529	<p>SAP NW - SAP Attribute "PARAMETER" limited to 18 characters. According to SAP the data structure of the BAPI is limited to 18 characters for each parameter value. SAP increased the length of the values to 40 characters and extended the BAPI by adding another data table. By default, the adapter supports PARAMETER. However PARAMETER1 can be incorporated into the adapter by making XSL modifications. A technote entitled "Using ITIM Adapter for SAP NetWeaver to Manager 'PARAMETER1' attribute" that describes how to make use of PARAMETER1 instead of PARAMETER has been created and is available here:</p> <p>http://www-01.ibm.com/support/docview.wss?uid=swg21588145</p>
INT51074	Support for JCo 3.0.8
	Items included in 5.0.6/5.1.6 release
MR033011116	<p>SAP GRC adapter to action risk approval from SAP. Customer would like the SAP GRC adapter profile to ship with workflows that action risk approval data sent from SAP. To implement this MR an additional "NetWeaver + GRC" profile has been created that reuses the NetWeaver attributes (where possible) on a SAP GRC (Access Control 5.3) request. A workflow component has been developed to give the adapter the ability to submit requests to GRC for the purpose of performing a "Separation Of Duty" check prior to provisioning the account using the NetWeaver adapter. A notification component has been developed for the purpose of updating PENDING ITIM workflows with the result of completed GRC requests. The GRC and NetWeaver components of the adapter integrate at the ITIM workflow level, and require workflow enhancement in ITIM. For more details, check the SAP NetWeaver Adapter Installation Guide.</p>
MR0627115334	<p>ITIM SAP GRC Adapter: Reconciliation of risk analysis result. Make it possible for SAP GRC to return the outcome of the risk analysis and possible approval back to TIM. While "reconciliation" of risk analysis results from SAP GRC to ITIM can not be done, the work done to address MR033011116 means that it is now possible to return GRC request completion results to an ITIM workflow using the "Blocking" GRC workflow extensions provided with this release and running the notification service to update PENDING ITIM workflows with the outcome of completed GRC requests.</p>
	Items included in 5.0.5/5.1.5 release
MR052710291	<p>The NetWeaver Adapter did not have a option to hide indirectly assigned SAP roles. The adapter no longer returns single roles which are part of a composite role during reconciliation.</p>
MR1130102136	<p>When an account modify operation was performed the default setting of the NetWeaver adapter was to replace all roles in SAP with roles that have been specified for an account in ITIM. This had the effect of removing any roles in SAP that had not yet been reconciled into ITIM. The default behavior of the modify operation has been changed. Now when an account modify operation is performed the adapter looks up the list of roles in SAP and adds any roles</p>

	that do not exist in ITIM to the list of roles that will be sent to SAP, in addition to adding/removing roles for that account. The outcome is that all pre-existing roles for an account in SAP will remain unless they have been explicitly marked for deletion by the account modify operation in ITIM.
N/A	Support for TDI 7.1
N/A	Support for JCo 3.0.7
	Items included in 5.0.4/5.1.4 release
MR0211083748	The performance of the reconciliation process has been improved. In previous releases of the adapter, a connection was opened between the adapter and the target SAP systems at the start of the reconciliation. This same connection was used to read account details for all users. The connection was then closed at the completion of the reconciliation. In some cases, this resulted in a measurable resource leak on the target SAP server with associated performance degradation. In order to remedy this situation, the adapter now resets its connection to SAP on every 300 uses of the connection. This has the effect of freeing resources on the target SAP system and maintaining overall performance.
	Items included in 5.0.3/5.1.3 release
N/A	New extension feature added. The account locking optional extension prevents the adapter from unlocking SAP accounts which have been locked by a local SAP administrator outside of ITIM. With the locking extension deployed and enabled, the adapter will only unlock accounts which have been locked due to maximum number of failed password logon attempts. The locking extension also enables the adapter to propagate unlock attempts to CUA child systems, while still preserving administrator set locks. This propagation enables the adapter to unlock an account a CUA child system which has been locked due to failed login attempts.
N/A	Support for TDI 7.0
	Items included in 5.0.1/5.1.1 release
MR090408134	Adapter ability to communicate with multiple SAP message servers. The adapter can connect to SAP ABAP target servers via a SAP message server per adapter service. This can be enabled by defining Optional RFC Connection Parameters for the adapter service in ITIM.
	Items included in 5.0.0/5.1.0 release
	Initial release

Closed Issues

INTERNAL#	APAR#	PMR# / Description
		Items included in 5.0.7/5.1.7 release
	IV09405	The following error message was being received when modifying a substituters account -- "CTGDIK219E Unable to execute RFC 'BAPI_USER_CHANGE'. The message is: 'CTGDIK210E Length of supplied value for field 'SUBSTITUTE_FROM' exceeds maximum length '8'. (0)" To correct this issue the templates that populate the attributes SUBSTITUTE_FROM and SUBSTITUTE_UNTIL in sapnw_bapi_user_change_licensedata.xml were reformatted from "YYYYMMDDhhmmZ" to "YYYYMMDD".
	IV11818	sapnw_bapi_user_system_assign.xml was edited to ignore CUA systems that have empty names. The HR Transport ABAP code was modified to force SAP to commit a HR record after it had been altered to prevent the occurrence of intermittent and unreproducible HR record locks. The installation guide documentation was updated in order to clarify the difference between XSL advance mappings for CUA and non-CUA systems. The RFC debug option was removed from the service form due to JCO RFC trace no longer working.
INT52428		The service.def file contained an invalid service group definition "erSAPagname". To correct the problem the service group name has been removed from service.def.
	IV02652	Initialisation steps were not being performed for the ersapnwlanguage attribute in the SAPNWAssemblyLines.xml. The value of the attribute was formerly hard-coded in the assembly line to "EN".
INT49087		Edit release notes to address using TDI and SAP JCO on 64-bit AIX.
		Items closed in 5.0.6/5.1.6 version
	IV03677	SAP NW - Email address set by SAP NW adapter is unusable for SAP standard program to generate mails. SAP support has been involved, and concluded that the issue is ITIM SAP adapter sets "01" to CONSUMER column of ADR6 table, but it should be "001". While this problem only affects the ADK adapter, example text in the SAP NetWeaver Adapter installation and configuration guide was updated to reflect this change.
		Items closed in 5.0.5/5.1.5 version
	IZ64088	Overcoming the error when the user supplies an advanced filter when executing a recon operation. The Assembly Line was updated to include handling for complex recon filters.
	IZ72594	Unable to successfully import the SAP NW adapter. The adapter installation guide has been updated to specify the minimum supported version of Tivoli Directory Server as Version 6.0 or greater.
	IZ72625	Allow to set SAP NetWeaver Role End Date to 9999. The Profile has been modified such that the End Date of SAP Authorization Roles can now be selected as the year 9999.
	IZ76265	The ersapnwdisablepwd attribute is set to TRUE or FALSE through add and modify operations, but CODVN is not being set correctly in the call to SAP. The attribute is now handled in such a way that the account is updated in SAP to disable the account password instead of locking the account.
	IZ80739	"Valid To" attribute of SAP account only up to 31 Dec 2010. The maximum year for the "Valid To" attribute has been changed to the year 2099.

	IZ83000	The attribute erlastaccessdate is longer returned by the adapter during reconciliations. SAP does not provide a supported method to read the time component of this value which ITIM server requires for the attribute.
	IZ86193	Automatic account creation from ITIM for an account that already existed in SAP. As expected the account add shows a failure as the user already existed in SAP, but the add operation changed the existing permissions for the account in SAP. This issue has been rectified so that the permissions are not changed.
	IZ86887	SAP adapter encounters CTGDIS792I error indicating SAP HR personnel records are locked and can't be updated. To address this issue the advance mappings for HR have been updated to include an RFC call to SAP that performs a commit prior to performing the HR operation.
	IZ87568	SAP adapter can not set timezone on add but can on modify request. The sapnw_bapi_user_create.xsl stylesheet was modified to correct how the time zone element is handled.
	IZ89229	SAP adapter HR extension delimiting personnel number on account modify. When using the HR extension and modifying an account attribute, the HR linking end date was being set to the current date. This was causing the personnel number to be delimited.
	IZ92787	SAP account deletion fails with "CTGDIK210E Length of supplied value for field 'USERNAME' exceeds maximum length of '12'". The relevant XSLs have been modified to correct this issue with account deletion.
	IZ96579	Call to SUSR_ZBV_LANDSCAPE_GET function module returns ERROR & WARNING on non-CUA systems. The logging mechanism now logs these particular CUA-related messages at the DEBUG logging level.
	IZ98248	The SAP NetWeaver Adapter attribute ersapnwusergroups is defined as multi-value in ITIM although it is single-value in SAP. So the join behavior is 'Union' by default. To be able to create Provisioning Policy Entitlements for this attribute, the Join Behavior will need to be manually changed to 'Priority'. And this needs to be done again after each adapter profile upgrade. In SAP this attribute called "User Group" is single-value. To resolve this issue the ersapnwusergroups attribute has been changed from multi-value to single-value in schema.dsml.
	IZ99374	The ersapnwsncflag attribute is not set correctly on user create or change. The relevant XSL transforms were modified to handle this attribute correctly, such that the "Unsecure Communication Permitted" box in SAP reflects the setting in ITIM.
	IV01146	ITIM SAPNW ersapnwprntdelete attribute is empty after recon when it has been set in SAP. The sapnw_bapi_user_getdetail_postcall.xsl stylesheet was patched so that the value of the SPDA element returned by SAP becomes the value of ersapnwprntdelete during recon.
CMVC 101781		Update the documentation in regards to the deployment instructions for the SAP NetWeaver Adapter.
CMVC 103525		Added the following RMI Dispatcher service attributes to the SAP adapter, which can be accessed through the Dispatcher Attributes tab of the service form: ersapnwalfsystempath, ersapnwmaxconnectioncount and ersapnwdisablealcache These map to the dispatcher parameters ALFileSystemPath, MaxConnectionCnt and disablealcachperservice in the service definition.
CMVC 104664		Change standard email receives a warning message "W: (319)". The relevant XSL now indicates the set of modified email address(es) in TIM with the correct flag, thereby suppressing this particular warning message from being issued by SAP NetWeaver and then passed into the ITIM log.

	IV02041	A newline and space characters are appended to ersapnwdateuntil (and other date fields) during reconciliation. The relevant stylesheets were modified to remove the newline and space characters from the affected date fields.
		Items closed in 5.0.4/5.1.4 version
		<p>Previous versions of the adapter incorrectly returned generated profile assignments during reconciliation or lookup of SAP user accounts. This error has been corrected. By default, generated profile assignments will be returned to ITIM. If the previous incorrect behaviour is required, simply make copies of sapnw_bapi_user_getdetail_postcall.xml and sapnw_tivsecty_bapi_user_getdetail_postcall.xml.</p> <p>Edit these copies replacing the following line;</p> <pre><xsl:apply-templates select="BAPIPROF[./BAPITYPE!='G']" /></pre> <p>with</p> <pre><xsl:apply-templates select="BAPIPROF" /></pre> <p>Configure these copied files in the "Search User Basic Iterate Response XSL Stylesheets" for the ITIM SAP services.</p>
		63353,019,866 06602,422,000 If the adapter is unable to locate an account which has been selected for reconciliation, the account will be skipped and the reconciliation process will continue. If any other error conditions occur, the reconciliation will abort with an error status. If any ABAP warnings are detected during retrieval of an account, the account will be included in the reconciliation result and marked as successful.
	IZ59253	07459,6X1,760 During high concurrent request loads, the TDI parameter values for connectors changed state. This resulted in intermittent connection errors due to incorrect connection parameter value usage in the SAP Netweaver Adapter Connectors. The Connectors now manage all parameter values internally.
	IZ59250	07300,6X1,760 The ABAP code of the password extension incorrectly cleared all SY fields. This resulted in ABAP error message NUMBER_GET_NEXT AENDBELEG INTERVAL_MISSING. This problem has been corrected.
	IZ59472	07280,6X1,760 The adapter no longer returns attributes 'sapUserName' and 'entryDN' during reconciliation. These attributes were resulting in an LDAP schema violation in ITIM server.
		Items closed in 5.0.3/5.1.3 version
		Items closed in 5.0.1/5.1.1 version
	IZ37256	52447,SGC,724 ITIM460: password change to non-unicode SAP
		51863,SGC,724 TIM - authorization check on SAP CUA not correct
	IZ41724	Always shows "No Message" in most of the cases when requests failed or completed with warning through the SAP adapter. All available SAP ABAP errors and warnings are now returned to ITIM resulting from provisioning operations.

	IZ41550	Reassign or remove hr personnel number not working correctly.
	IZ41229	Recon with filter doesn't return HR info. Advanced mapping is not working correctly, the default file name is always loaded. When HR linking extension is enabled, the adapter now correctly returns HR link details for a filtered reconciliation.
	IZ43323	User Guide update -- XSL order of CUA. The order of XSL stylesheet mappings has been corrected for password management extension.
		Password is in clear text in logs. This has been corrected.
	IZ43747	SAP agent cannot recognize special characters like '&' when creating account.

Known Issues

INTERNAL#	APAR#	PMR# / Description
		The SSO password extension does not set productive passwords on CUA child systems where the Basis version of the CUA child is V710. The SSO password extension does set productive passwords for CUA child systems where the Basis version is between V620 and V700.
		The password extension features of the adapter are not supported in CUA deployments where a CUA child server is V640 and the CUA master is V700 or later.
		The lock extension features of the adapter return the following warning when deployed and executed against a NON-CUA server. This warning can be ignored: W: CUA configuration is invalid or not defined. Unlock operation will not be propagated to child systems (0) (C:\timsol\cusxl\tiv_unlock.xml); SapNWRstore
		The Adapter for SAP NetWeaver does not retrieve descriptive text from SAP for most support data classes, e.g. roles and profiles.
		Language Attribute under both Communication and Default tabs can be search only by language key, e.g. EN.
		Modifying an account by reassigning a group that has been previously removed from the account is not working correctly. This appears to be a problem with standard SAP functionality.
		Invalid email format (described in 4.1.7 Email Address) is not reported as error during add and modify operations
		It is possible to change attributes on the non-CUA/CUA Master License Data tab only if the attribute "Contractual User Type" (ersapnwlicutype) is supplied in the Add or Modify operation request.
		Recon with filter (eruid=<string>*) is case sensitive due to RMI dispatcher limitation.
		If custom extension xsl file is missing the operation hangs.
	IZ38372	ITIM 4.6: Support data DN gets corrupted when the value has LDAP special characters
		After modifying adapter service parameters in the ITIM server, the dispatcher process hosting the adapter must be restarted.
		HR Linking ABAP transport imports may report warnings related to ABAP Dictionary Activation. These warnings can be ignored.
		Password management ABAP transport imports may report warnings related to ABAP Dictionary Activation. These warnings can be ignored.
		The adapter reports error or failure status to ITIM for all provisioning operations if a BAPI/RFC executed during the operation reports an error or failure. There are some cases when a SAP BAPI/RFC may report an error incorrectly. The BAPI/RFC actually executes successfully. One specific example is on user creation. If no user company addresses have been defined in SAP, the BAPI function BAPI_USER_CREATE1 reports an error to the adapter, but actually creates the user account in SAP. When the adapter reports the error to ITIM, ITIM server will not update the account in its repository resulting in an inconsistency between ITIM and SAP. The incorrect error status indicator cases are reported to SAP support as they are identified, to be corrected by SAP in support packs. In the meantime, ITIM users should leverage the full or filtered reconciliation features of ITIM to maintain consistency between ITIM and SAP repositories.

		<p>ITIM converts date values to the local time zone of the user. As a result, there can be cases where dates returned from SAP via the adapter to ITIM server appear to lose or gain a day. This occurs when any account attribute is modified in ITIM. ITIM will perform the time zone conversion as the modified account is being saved back into the ITIM request queue for subsequent provisioning.</p>
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Known Limitations

Description
If using the password extension features of the adapter, the password will always be propagated to CUA child systems assigned to the given user account.
The password extension features of the adapter are not compatible with SAP Enterprise Portal or UME.
The extension features of the adapter are not certified by SAP.
In CUA deployments, the adapter must be configured against the CUA master system. All attributes of accounts are managed via the master system. For all attributes except roles and profiles, the adapter will manage and synchronize account attribute state against the CUA master.
The Adapter for SAP NetWeaver supports the linking of user account to SAP HR personnel infotype 0105 subtypes 0001 and 0010. When these links are removed, the adapter will delimit the records to today's date. If the personnel number is changed from ITIM for a given user, the adapter will delimit the current 0001 subtype record to yesterdays date, and assign the 0001 subtype record to the new personnel record with a start date equal to todays date.
When assigning a CUA child system to a user account, if the user account has group assignments, and at least one of those groups does not exist on the CUA child, then the account will not be created on the child. This is a limitation with SAP CUA implementation, and is reproducible using the native SAP user management transaction SU01.
Country attribute under Person Tab depends on attribute Company from the same tab. After recon value of attribute Country might be changed to correspond to Company address.
In CUA environments, when assigning role/profile from master or child systems to user without system assignment, SAP automatically creates an associated CUA system assignment. ITIM will not have visibility of the automatically assigned CUA system assignment until next reconciliation for the user.
When performing a filtered reconciliation, the filter value must be defined in uppercase (e.g. (eruid=USER1)). This is due to an inconsistency within the BAPI methods for user management provided by SAP. This limitation affects retrieval of CUA profiles assigned to the requested user account.
The minimum supported version of ITDS is version 6.0. The adapter does not work with earlier versions of ITDS because attributes that are not unique in the first 15 characters of the attribute name can not be handled correctly.
In CUA environments there is no known method for distinguishing a composite role from a non-composite role. This means that reconciliation will return all roles from a CUA implementation.
SAP allows different telephone numbers to be set as the "Primary telephone number", such as the Mobile Phone number. During reconciliation, SAP will return the Mobile phone number as the Primary telephone number if a Telephone number has not been defined for an account in SAP.
Role assignment modification does not work when attempting to simultaneously add a directly assigned single role while removing a composite role which also contains the given single role. It is recommended to perform this operation as two separate steps, i.e. remove the composite role, then add the single role.
SAP GRC NW adapter - CUA role assignment in GRC: If the role assignment to an account includes roles with the same name for different child CUA systems there will be only one role displayed on the request in GRC instead of multiple roles for each child CUA system.
SAP GRC NW adapter - GRC AC data matching: GRC will reject a web services request containing data that does not match data that it expects for particular fields. These fields include: Role name, Function, Company, System Identifier, Employee Type, Priority, Custom Fields. For correct operation of the adapter, ensure that information in GRC matches information in the target SAP NetWeaver system prior to submitting a GRC request from ITIM. Verify that an identical request can be submitted directly from the GRC browser interface.
SAP GRC NW adapter - Test Connection on the service form validates the connection to SAP NetWeaver only, it does not validate the connection to SAP GRC 5.3. This limitation is due to interaction with GRC being done through web service calls instead of through TDI.

Multi Byte Character Support Limitations

All character data transferred between ITIM Server, the adapter, and SAP ABAP server are encoded as UTF-8. The adapter supports provisioning of multi byte characters to and from a directly connected SAP ABAP Unicode server. Provisioning of ASCII characters is supported for Non-Unicode SAP ABAP servers. The adapter does not support provisioning of multi_byte characters to any Non-Unicode ABAP server. Extended ASCII characters are not tested or supported for Non-Unicode SAP ABAP servers.

Non Transactional Provisioning

The adapter does not execute provisioning operations within a transactional context. Some provisioning operations require multiple steps to be executed against the SAP server. A consequence of this situation is that errors or warnings which occur after the first step may result in a partially complete provisioning operation. A possible method to handle for this limitation is to use the ITIM workflow features to execute compensating actions. For example, issue a filter reconciliation for the given user account in order to synchronize the account state between ITIM and the target server.

Enable Deactivated Password on Modify Limitation

The "Deactivate password" attribute is supported by both the Add and Modify operation. Enabling this attribute on the account form will cause the password for an account to be deactivated in SAP. However, disabling the "Deactivate password" flag is NOT supported in the modify operation. The adapter will not enable the password for an account if the "Deactivate password" flag is unchecked on a modify operation. To re-enable a deactivated password for an account, a request to change the password for the account must be made instead. The state of the disable password flag in TIM will not be synchronized until a reconciliation is performed.

Installation and Upgrade Notes

See the "IBM Tivoli Identity Manager Adapter Installation Guide" for detailed instructions.

Installation

The following installation notes apply to this release:

HR Linking Extension ABAP Transports

If the HR Linking features of the adapter are to be used, ABAP transport files must be installed on the target SAP systems. The transport files are contained within the transports/hr directory of the adapter distribution.

The transport files must be deployed onto the target SAP ABAP systems as follows in the order specified:

- ⤴ If the target SAP NetWeaver is a standalone (i.e. non-CUA) server with SAP HR modules installed:

Unicode SAP Systems - TV1K900812 {cofiles = K900812.TV1, data = R900812.TV1}

Non-Unicode SAP Systems - TV2K900342 {cofiles = K900342.TV2, data = R900342.TV2}

- ⤴ In a CUA environment, for all CUA child member servers with SAP HR modules installed:

Unicode SAP Systems - TV1K900812 {cofiles = K900812.TV1, data = R900812.TV1}

Non-Unicode SAP Systems - TV2K900342 {cofiles = K900342.TV2, data = R900342.TV2}

- ⤴ In a CUA environment, on a CUA master server with SAP HR modules installed:

Unicode SAP Systems -

TV1K900812 {cofiles = K900812.TV1, data = R900812.TV1}

TV1K900762 {cofiles = K900762.TV1, data = R900762.TV1}

Non-Unicode SAP Systems -

TV2K900342 {cofiles = K900342.TV2, data = R900342.TV2}

TV2K900304 {cofiles = K900304.TV2, data = R900304.TV2}

- ⤴ In a CUA environment, on a CUA master server without SAP HR modules installed:

Unicode SAP Systems -

TV1K900759 {cofiles = K900759.TV1, data = R900759.TV1}

TV1K900762 {cofiles = K900762.TV1, data = R900762.TV1}

Non-Unicode SAP Systems -

TV2K900301 {cofiles = K900301.TV2, data = R900301.TV2}

TV2K900304 {cofiles = K900304.TV2, data = R900304.TV2}

NB: Warnings related to ABAP Dictionary Activation can be ignored.

Password Management Extension ABAP Transports

If the password management features of the adapter are to be used, ABAP transport files must be installed on the target SAP systems. The transport files are contained within the transports/password directory of the adapter distribution.

The transport files must be deployed onto the target SAP ABAP systems as follows in the order specified:

⤴ On all standalone and CUA master and child member systems:

Unicode SAP Systems - TV1K900803 {cofiles = K900803.TV1, data = R900803.TV1}

Non-Unicode SAP Systems - TV2K900337 {cofiles = K900337.TV2, data = R900337.TV2}

NB: Warnings related to ABAP Dictionary Activation can be ignored.

Account Locking Extension - ABAP Transports

The transport files must be deployed onto the target SAP ABAP systems as follows in the order specified:

⤴ On all standalone and CUA master and child member systems:

Unicode SAP Systems - TV1K900783 {cofiles = K900783.TV1, data = R900783.TV1}

Non-Unicode SAP Systems - TV2K900313 {cofiles = K900313.TV2, data = R900313.TV2}

NB: Warnings related to ABAP Dictionary Activation can be ignored.

Configuration Notes

Support for IBM Tivoli Directory Integrator version 7.0

If IBM Tivoli Directory Integrator version 7.0 is installed, the ITDI location on the SAP NetWeaver service form should be updated to specify the port as 1099 (in which case, for example, the location would be rmi://localhost:1099/ITDIDispatcher).

If upgrading from ITDI 6.1.1 to 7.0, existing ITIM service definitions must be updated with the new port number.

HR Link stylesheet name modified

The form presentation of ITIM enforces a limit of 240 characters on a text field. Due to additional stylesheets being included on the advance mappings for the HR linking extension, the length of the input string exceeded this limit. Thus, the file name of the following stylesheet has been abbreviated from sapnw_tivsecty_bapi_user_hr_link.xsl to sapnw_hrlink.xsl

This change affects the CUA and Non-CUA advance mappings for the Add User Basic and Modify User Basic XSL Stylesheets advance mappings. See "Appendix A Enabling HR linking extension" of the SAP NetWeaver Installation Guide for a listing of the advance mappings.

Customizing or Extending Adapter Features

The Identity Manager adapters can be customized and/or extended. The type and method of this customization may vary from adapter to adapter.

Getting Started

Customizing and extending adapters requires a number of additional skills. The developer must be familiar with the following concepts and skills prior to beginning the modifications:

- Tivoli Identity Manager administration
- Tivoli Directory Integrator management
- Tivoli Directory Integrations assembly line development
- LDAP schema management
- Working knowledge of Java scripting language
- Working knowledge of LDAP object classes and attributes
- Working knowledge of XML document structure

Note: If the customization requires a new Tivoli Directory Integrator connector, the developer must also be familiar with Tivoli Directory Integrator connector development and working knowledge of Java programming language.

Tivoli Identity Manager Resources:

Check the “Learn” section of the [Tivoli Identity Manager Support web site](#) for links to training, publications, and demos.

Tivoli Directory Integrator Resources:

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Support for Customized Adapters

The integration to the Identity Manager server – the adapter framework – is supported. However, IBM does not support the customizations, scripts, or other modifications. If you experience a problem with a customized adapter, IBM Support may require the problem to be demonstrated on the GA version of the adapter before a PMR is opened.

Supported Configurations

Installation Platform

The IBM Tivoli Identity Manager Adapter was built and tested on the following product versions.

Adapter Installation Platform:

This adapter installs into Tivoli Directory Integrator and can be installed on any platform supported by the Tivoli Directory Integrator product and supported by the target system libraries or client, where applicable. IBM recommends installing Tivoli Directory Integrator on each node of the ITIM WAS Cluster and then installing this adapter on each instance. Supported Tivoli Directory Integrator versions include:

Tivoli Directory Integrator 6.1.1 Fix Pack 9
Tivoli Directory Integrator 7.0 Fix Pack 6
Tivoli Directory Integrator 7.1 Fix Pack 4

Managed Resource:

The following SAP ABAP Basis versions running anywhere on the network are supported:

- ^ SAP 710
- ^ SAP 700 (NetWeaver 2004s)
- ^ SAP 640 (NetWeaver 2004)
- ^ SAP 620

The adapter supports SAP CUA environments. If CUA is configured the adapter must be deployed against the central CUA master system.

Refer to section 4.1.1 above regarding unicode support limitations.

SAP PATCHES

The following minimum patch levels, by SAP release version, are required:

SAP Version Release	Software Component	Level	Support Package
620	SAP_BASIS	0063	SAPKB62064
640	SAP_BASIS	0021	SAPKB64022
700	SAP_BASIS	0014	SAPKB70014
710	SAP_BASIS	0005	SAPKB71005

Specifically, the SAP system must be patched with corrections from SAP notes 992375, 994415 and 1101858.

If using the HR Linking extension features, the following additional component patch levels are required:

SAP Version Release	Software Component	Component Release	Level
620	SAP_HR	470	0017
640	SAP_HR	500	0016
700	SAP_HR	600	0063

IBM Tivoli Identity Manager:
Identity Manager v5.0
Identity Manager v5.1

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End of Release Notes