StreamServe Persuasion SP4

New Features

Rev B
StreamServe Persuasion SP4 New Features
Rev B

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Introduction

This document briefly describes new functionality and changes in StreamServe Persuasion SP4.

For detailed user and installation information, see the StreamServe documentation delivered with the software. You can also download documentation from StreamServe Download Center: http://download.streamserve.com.

Supported platforms and software

For information on supported software, see StreamServe Persuasion SP4
Supported platforms and software.

Upgrading and migrating

Note: The new Runtime Migration Tool, mentioned below, has been temporarily disabled and will be added back in June. The reason is that R&D will be involved in the early database upgrades to ensure a smooth upgrading process.
Please contact Petter Eriksson, petter.eriksson@streamserve.com for further details.

For information on upgrading StreamServe Projects and migrating the databases to Persuasion SP4, see StreamServe Persuasion SP4 Upgrading Instructions.

Migration tools

There are new tools for migrating the databases:

• StreamServe Archive Migration Tool migrates documents from RePRINT 3.0.1 and later, and from Collector Persuasion SP2 and later to the new StreamServe archive (SP4). See Archive Migration Tool on page 30.
  Note that Archive Migration Tool has replaced RePrint Migration tool.

• Runtime Migration Tool upgrades the runtime database structure, procedures and data from Persuasion SP2 and later to Persuasion SP4. See Runtime Migration Tool on page 30.

For migration from Persuasion versions prior to SP2, contact StreamServe Support.
Corrected bugs

All bugs that are included in hotfixes for StreamServe Persuasion SP3 are included in Persuasion SP4. The hotfix documentation is available in the web based StreamServe Hotfix Info tool:

http://hotfixinfo.streamserve.com/fixinfo

The tool is also available from StreamServe Download Center and from the Support web.
New and changed functionality

This section describes new functionality on an overall basis. For more detailed information, see the StreamServe Persuasion SP4 user documentation.
StreamStudio

General

**Run without directory server**
StreamStudio can now be run without a directory server.

**Several portals**
One single Java application server can now host several StreamStudio portals. This enables you to run StreamStudio Persuasion SP4 and later Persuasion versions on the same application server.

**New login URL**
Since you can run several StreamStudio portals on the same host, a generic portal name cannot be used in the URL for the StreamStudio log in page. StreamStudio has therefore been removed from the start menu. To reach the StreamStudio login page from the web browser, the following URL must be used:

```
http://<host>:<port>/<Web portal name>/Portal/start
```

**Logging in to a domain**
Several application domains can be linked to one StreamStudio portal. When logging in to StreamStudio, the business user must enter user name, password, and select a domain from the list of available application domains.

The application domain can be added to the login URL above. In this case, the user logs in with user name and password, and is automatically directed to the correct domain.

Collector

**Separation of document storage**
For performance reasons, documents are no longer stored in the runtime repository. Instead, the documents and related metadata are transferred from the runtime repository to a new document storage. The new document storage is mostly referred to as the StreamServe archive.

The two repositories have different functionalities:

- **Runtime repository** – Stores StreamServe jobs in the queues. It also stores security profiles and web access information for the StreamStudio web applications. This repository is optimized for transactions.

- **StreamServe archive** – Stores output documents and related metadata that are accessed from the StreamStudio Collector web application. The archive is optimized for searching and querying for documents. The maximum number of business documents that can be stored at any time in a single StreamServe archive is 30 million documents.
A new Archiver application transfers output documents and metadata from the runtime repository to the StreamServe archive.

The connection between the StreamServe archive and the Collector web application is handled by the service gateway.

**Number of result fields in search results**

The default number of result and detailed fields, to show in Collector search results, are increased.

This setting is configured in the StreamStudio Administrator application and the new recommendation is 1-30 fields in the results and detail views.

**Reprocessing stored documents**

The following reprocessing changes are made:

- Reprocessing stored documents is now carried out via a web service.
- The Collector Reprocess input connector is replaced by a generic Service request input connector. See [Service Request input connector](#) on page 16.

**User interface**

The following user interface changes are made:

- Since archived documents now are stored in a separate repository, the StreamServe archive, the link **Show job** is removed.
- If using date variables when searching for stored documents, the variable name should now be typed in lowercase. For example, today(). For more information, see the online help for Collector in StreamStudio.
- It is no longer possible to construct a date interval by combining a date and a variable. For example, Delivery date = 20090101..today().
Composer

Approving texts
It is now possible to approve several texts at the same time.

Copying texts
It is now possible to copy an existing text.

Previewing texts
It is now possible to preview texts containing metadata immediately from the text editor.

In previous versions, to preview a text that contained metadata, the user first had to compose the document where the text should be included.

Composition Center

Text property
A text property has been added. Texts can now be aligned to both the left and the right margins. The property is named Justify an available in the Align drop-down list in the Properties view for texts.

This means that all four text alignment properties in StoryTeller (left, right, center, full) are now exposed in Composition Center. Justify corresponds to the StoryTeller property "full".

Customized font sizes
Previous versions of the StreamStudio Composition Center text editor did not support customized font sizes, for example, 11pt. It is now possible for users to select customized font sizes from a new Font size drop-down list in the editor.

Rules indication for content
To see if rules is set on content, the user had to click the content and then open the Rules view.

This is now simplified. If a rule is set on content it is indicated by a asterisk (*) after the content name.

Reporter

User interface
The following user interface changes are made:

- Since archived documents now is stored in a separate repository, the StreamServe archive, the link Show corresponding documents stored by the job is removed.
• Metadata \textit{Archived} is replaced by \textit{Marked for archive}. For more information, see the online help for Reporter in StreamStudio.
Control Center

Application domain

StreamStudio portal
You now configure the StreamStudio portal outside the application domain, and then link it to the application domain. Each application domain can be linked to one single portal. Several application domains can share the same portal.

StreamServe archive
You configure and create the new StreamServe archive outside the application domain, and then link it to the application domain. Each application domain can be linked to one single StreamServe archive. Several application domains can share the same StreamServe archive.

Archiver application
The new Archiver application transfers documents and metadata from the runtime repository to the new StreamServe archive. In the application configuration, you specify how and when to transfer the documents. Each application domain requires a separate Archiver application.

The Archiver application is a standard StreamServe Component Framework application. All standard procedures (starting, stopping, setting up surveillance, etc.) carried out for other applications, can also be carried out for the Archiver application.

Application Domain Editor

The Application Domain wizard has been replaced with new functionality in the Application Domain Editor. In the editor, there is a new Administrator tab and some enhancements made to the Directory tab.

Administrator tab
A new Administrator tab is introduced. The tab is used for specifying an application domain administrator.

In StreamStudio, the application domain administrator is automatically assigned the System Manager role in StreamStudio. The administrator is not connected to a user directory, and can be used for StreamStudio log on regardless of user directory vendor or even without a user directory. The first time you log on to StreamStudio, you must always log on as the application domain administrator.

Directory tab
The configuration of the LDAP servers is simplified in the following ways:
• A **Get Domain Controller** button is introduced. When specifying the Host name option for Microsoft Active Directory, you can click this button and translate a `<Host>` or `<Domain>` property into the required `<Host>@<Domain>` format.

• A **Default Naming Context** button is introduced. When specifying the DN Base option, you can click this button to get the default naming context from the directory server. You can then use the returned naming context as a basis when specifying the DN Base option.

• To simplify the looks of the Directory tab, **Verify user attributes** and **Translate name attributes** are now grouped under a **Show queries** option.

• The **StreamStudio Administrator** option is removed from the internal user directory settings. The user is replaced by the application domain administrator specified on the Administrator tab.

### Document types

To support the new document type deployment process, there is a new dialog and a new tool in Control Center.

**Document Types dialog box**

In the new Document Types dialog, you can list and view the document types in the StreamServe Enterprise Repository. If required, you can also delete document types from the enterprise repository.

**Compare Document Types tool**

The new Compare Document Types tool opens when you redeploy a Project that contains updated document types. In the tool, updated document types are compared with existing document types, already deployed to the enterprise repository. Any differences are indicated with colors.

Depending on type of difference, you may or may not be able to redeploy the Project and update the document type in the enterprise repository. For example, if a document type includes new metadata, you can redeploy the Project. If metadata is removed from a document type, you cannot redeploy the Project.

### Logging

Logging has been improved to better support users during installation and execution. Users can track what is happening in the various StreamServe applications, and it is easier to analyze problems that may occur.

**Three separate logs**

Each application (StreamServer, service gateway, Archiver, and management gateway) generates three separate logs:

• **Boot log** – early startup messages.
• Platform log – startup messages and low level details.
• Application log – runtime log messages.

**Control Center log view**

The logs can now be viewed on separate tabs in the Control Center log view. Each tab contains the same information as the corresponding log file.

If logging to database is enabled for the application, a Database log tab is added to the log view.

**Logging to database**

Logging to the runtime repository has been introduced. You can enable logging to database for each application.

Logging to the runtime repository provides better control of the logs than using log files, since you can examine the logs from several applications using for example date and job ID as search criteria.

To examine the runtime repository logs, you can use a command line tool. See the *Control Center* documentation.

**New properties**

**Debug**

You can enable debugging and include all available log information in the logs. This applies to all logs (boot log, platform log, and application log), for the selected application.

You enable/disable debugging in the application Properties view.

**Temp directory**

You can specify the path and name of the temporary directory (relative to the working directory) as a setting in the application Properties view.
Document types and metadata

GUID:s identify document types and metadata

Document types and metadata are now identified by GUID:s (Globally Unique Identifiers) instead of by names (display strings). You can view the GUID:s in the Document Type Editor and the MetaData Group Editor.

Document type deployment process

To be able to run a Project, identical document type definitions (including metadata) must be stored in all repositories (the StreamServe Enterprise Repository, the runtime repository, and the new StreamServe archive). The enterprise repository contains the master document types, to which the other repositories should conform.

Document types are deployed to the repositories from Control Center in the following way:

1 **StreamServe Enterprise Repository** – When you deploy a Project to a StreamServer application, the management gateway deploys any document types to the enterprise repository.

2 **Runtime repository** – When the StreamServer application is started, the application deploys the document types to the runtime repository. Only document types associated with the application domain to which the runtime repository belongs are deployed.

   If the Archiver application is started before the StreamServer application, the Archiver application stores the document types in the runtime repository.

3 **StreamServe archive** – When the Archiver application is started, the application deploys the document types to the StreamServe archive. Only document types associated with the application domain(s) to which the archive is linked, and that include metadata intended for archiving, are stored in the archive.

Rules for modifications

Once a document type is deployed to the different StreamServe repositories, there are restricted rules for how the document type and metadata can be modified in Design Center. If these rules are not fulfilled, the Project cannot be redeployed in Control Center.

For example, in Design Center, a metadata can be removed from a document type. However, in Control Center, you cannot redeploy the Project unless the existing document type is first removed from the enterprise repository. The removed metadata must then be deleted from all other repositories to which the metadata is deployed.
StoryTeller

Runtime scripting
You can add scripts to most objects in the document. A number of StoryTeller script functions are introduced, and most of the existing scripting functions can also be used.

Re-use of Stories and external content
You can now re-use Stories, both within a document by using a Story Reference, as well as Stories created in other documents by using an External Substitution. You can also link to external content in RTF, HTML, or LXF content with an External Substitution.

Runtime selection of a Story
You can select in runtime (depending on an input value) among Stories created within the document via a Switch.

Re-using design elements
You can link to already created StoryTeller documents with one or more page definitions. You can select in runtime which page definition to use, for example different overlays. You can also link to documents in RTF, XHTML, or LXF format.

The design elements can also contain dynamic data, for example to re-use an element with a "Page m of n" type of text in a page header.

Optional visibility
You can select to e.g. hide objects depending on certain circumstances.

Dynamic text size
You can let text size change depending on the amount of input text, to e.g. make it fit into a predefined space.

Storing variables on page
You can store variables on every generated page, which can be used for post-processing or in driver settings etc.
CSS processing in XHTML filter

CSS definitions can now be processed by XHTML filter.

Variables in XPath expressions

You can now use $variable instead of /data/variables/variable in XPath expressions. Variable names are case insensitive.
Connectors

New connectors

**JDBC connectors**
The JDBC connectors have replaced the ADO connectors.
The JDBC input and output connectors provide a read-write interface for relational databases. The JDBC input connector is used to retrieve information from the database, and the JDBC output connector is used to insert or update information in the database.

In the configuration of the JDBC input and output connector you specify the appropriate JDBC driver and Connection URL settings to connect to the database, and the SQL query to execute on the selected database.

**Service Request input connector**
This connector is used by a StreamServer application:

- To retrieve input from Adobe LiveCycle ES processes. Any type of document can be sent via a Service Request connector to the StreamServer application for further processing.
- To retrieve documents from Collector. Documents are forwarded from Collector via the Service Request connector to the StreamServer application for reprocessing. This connector replaces the Collector Reprocess input connector.

In both cases, the connector exposes the StreamServer application as a web service to the client (Adobe LiveCycle ES or Collector).

**Changed connector**

**LiveLink ECM – IXOS**
In previous releases, this connector was named IXOS Archive in R3. The name is now changed to LiveLink ECM, due to ownership.

Two new options have been added:

- **Autodetect file extension** – The file extension for the output is set by the document type specified.
- **File extension** – The file extension for the output is set manually.
Design Center

Design Center for large customers

Design Center has been improved to better meet requirements from large customers.

Indicate data presence

If any settings are configured on a tab, this is indicated by bold labels on the tab and on the icon below which the tab is located. This makes it easier to quickly see where any settings are made.

Post- and pre-export commands

You can specify scripts to be executed before and after the Project is exported. For example, you can have a script that cleans up queues before the Project is exported. Or a script that starts a command prompt for a StreamServer application after the Project is exported.

You specify the scripts in the Script dialog box, opened from the Export Dialog box.

Sorting connectors

Presentation of connectors in the Platform and Runtime configuration views has been improved by enabling sorting alphabetically (ascending or descending) or by using drag-and drop:

Document Type Editor

A number of improvements have been made:

- To save disk space and to enhance search performance in StreamStudio Collector it is now possible to select which predefined system metadata to store. In previous versions, all predefined system metadata was stored in the repositories.
- The GUIDs (Globally Unique Identifiers) for document types and metadata can be listed.
- In the dialog where values are assigned to metadata, it is now possible to select if metadata should be used in StreamStudio Collector and stored in the StreamServe archive.
- It is now possible to validate metadata assigned the document type. For example, identify metadata with identical names.

See the Document type and metadata documentation.
Database Administration Tool

The Database Administration Tool is intended for administrating the runtime repository.

You cannot administer the new StreamServe archive with this tool. Any changes to the StreamServe archive must be carried out by a DBA (Database Administrator) using the DBMS (Database Management System).

Transfer view

A new Transfer view is introduced, displaying the status of document transfer from the runtime repository to the StreamServe archive. This view provides status for top jobs that are successfully completed by StreamServer and that include documents to be archived. If the archiving fails, you can view for which documents the archiving failed and you can reset the archiving status for these documents.
Drivers

Barcodes

NULL values
Support for NULL values in Datamatrix barcodes has been added.
To use a NULL value in a Datamatrix barcode, the string "\x0000" should be used instead of NULL.
In PageOUT, a new Barcode settings has been added:

- **Decode NULL**
  When set to **Yes** every string "\x0000" is replaced with a NULL value. And the barcode will be created with NULL values.

Note that this works only for rasterized barcodes (for PDF, RAS, etc.). Drivers that support barcodes (Zebra, Imaje, etc.) are not affected.

AFP

Options
New option is added on page level to AFP driver:

- **Default** – Use the Document definition to set the scope of the PageGroup.
- **Envelope** – Use the envelope definition to set the scope of the PageGroup.

TLEs and NOPs on page level
You can now define TLEs and NOPs on page level in Design Center runtime settings for AFP driver.

For example, this is useful for documents created with StoryTeller that cannot generate bookmarks which may be used in PageOUT.
Scripting

New script functions

**Dumpvariables**

The Dumpvariables script function dumps all variables and their values to a specified file. All variables that have a value assigned to them at the moment of script function execution are dumped. You can invoke the function at any level of execution. If the file already exists, the new data is appended to the existing file.

**ForcePoll**

The ForcePoll script function signals an input connector to poll, and can be used with any input connector that supports scheduled polling (polling configured in the Scheduler Configuration dialog box).

**OdbcExecuteEx**

The OdbcExecuteEx script function is similar to the OdbcExecute function. The difference is that the OdbcExecuteEx function can be configured to accept a failed CREATE TABLE statement.
Startup arguments

New startup arguments

dumpvars
The `dumpvars` startup argument dumps variables and their values to a text file. Only variables assigned to a value at or before the specified context are written to this file.

ignorejobdefs
The `ignorejobdefs` startup argument ignores the specified job definitions in a job. Other job definitions in the job are included.

includejobdefs
The `includejobdefs` startup argument does the opposite from `ignorejobdefs` by including the specified job definitions in the job. This also means that all other job definitions in the job will be ignored.
Adobe LiveCycle Designer ES

Closer integration

StreamServer and LiveCycle ES are more closely integrated. You can:
• Access the LiveCycle ES repository from Design Center.
• Invoke StreamServer from LiveCycle ES.
• Invoke LiveCycle ES processes from StreamServer.

Access the LiveCycle ES repository from Design Center

Design Center can be connected to a LiveCycle ES repository. This makes it possible to use templates and other related resources without having to import them via the file system.

Form templates, fragments and images can be managed using LiveCycle Workbench. Design Center can check if changes have been made and import them, making it easier to share form resources and keep them synchronized.

By accessing the LiveCycle ES repository you can:
• Navigate and browse the LiveCycle ES repository. The browser shows information about the local and repository resources relatively to one another, for example:
  – If the resource already exists locally in the Design Center resource set.
  – If the resource has been updated in the repository and needs to be updated locally.
• Import resources and their dependencies from the LiveCycle ES repository.

You cannot change any data in the LiveCycle ES repository when accessing it from Design Center; you only have read access.

The connectivity to LiveCycle ES repository is protected by logon credentials.

Note: You can define connections to several repositories, but you can only create and update resources from one repository at the time.

Invoke StreamServer from LiveCycle ES

LiveCycle ES can invoke StreamServer applications that are exposed through web services. These web services can be used to integrate StreamServer applications into LiveCycle ES processes when processing documents.

The Document Service Component (DSC) is developed for this purpose. This DSC can be used in any LiveCycle ES process to pass data to and from StreamServer. The service can be used in three different modes:
• Post – Send a job from LiveCycle ES to StreamServer. StreamServer delivers the final output.
• **Run** – Send a job from LiveCycle ES to StreamServer, and retrieve status information when the output job from StreamServer is completed. StreamServer delivers the final output.

• **Generate** – Send a job from LiveCycle ES to StreamServer, and retrieve the processed output and status information back from StreamServer. LiveCycle ES delivers the final output.

The web services are exposed by StreamServer using Service Request input connectors. StreamServer receives the job from LiveCycle ES via the Service Request connector, and can return processed output to LiveCycle ES via any output connector.

### Invoke LiveCycle ES processes from StreamServer

StreamServer can invoke LiveCycle processes that are deployed within LiveCycle ES and exposed through web services. These web services can be used to integrate LiveCycle processes into the StreamServer pipeline when processing documents. There are two ways to invoke requests from StreamServer to LiveCycle ES: Invoke requests using a LiveCycle output connector or a LiveCycle filter.

#### LiveCycle output connector

The LiveCycle output connector is used when LiveCycle ES delivers the final output. For example:

1. StreamServer receives input via an input connector.
2. StreamServer uses the appropriate Event/Process configuration to create documents.
3. The LiveCycle output connector invokes the appropriate LiveCycle ES process and sends the documents in the request.
4. The LiveCycle ES process processes the documents, and delivers the final output.

#### LiveCycle filter

The LiveCycle filter is used when StreamServer delivers the final output. For example:

1. StreamServer receives input via an input connector.
2. StreamServer uses the appropriate Event/Process configuration to create documents.
3. The LiveCycle filter invokes the appropriate LiveCycle ES process and sends the documents in the request.
4. The LiveCycle ES process processes the documents, and sends the processed documents in the response to StreamServer.
5. StreamServer delivers the final output via an output connector.
Resource set handling

In previous versions, only the main XDP template was stored as a resource. Its dependencies were included in the export package and placed in the export directory.

Now, all the XDP files, the main XDP template and all its dependencies, can be imported and stored in the resource set.

In the LiveCycle Designer ES Process Tool, you can browse the Design Center resource set and select one or several resources to extract to a working directory, keeping the structure of the resource set. A new command is added: File > Extract Resources to file.

The resource and its dependencies are extracted to the same structure as in the resource set. The extracted resources are available from Adobe LiveCycle Designer ES.

Note: Since the XDP files reference each other, it is important to keep the structure of the resource set. This means that you should not change the structure of extracted resource sets.

Loading dynamic templates at runtime

In previous versions, users had to specify a form template which was contained in a resource set. The specified form template was loaded when StreamServer was started. It could not be changed until the Project was re-exported, deployed, and StreamServer was restarted. It is now possible to load form templates dynamically during runtime.

In the GUI the Open/Select Template command (previous the Open Template command) and the Select Template dialog box have been modified to support selection of static and dynamic template.

Performance considerations

Loading and unloading form templates dynamically at runtime can be perceived as slow. When the same template is used several times, as is the case when using dynamic templates, performance can be significantly improved by using form cache.

If the original form template is modified, it will be re-loaded to the cache by force. This only applies to the main template; modified fragments are not re-loaded.

Label printer support

Support has been added for the following label printers:

- ZPL II
- Intermec FP/DP
- Intermec IPL
Support for USPS Intelligent Mail Barcode

Support for USPS Intelligent Mail® Barcode is added. LiveCycle Designer 8.2.1 does not support this barcode by default. The barcode can be enabled in LiveCycle Designer ES. See the LiveCycle Production Print ES Update 1 Installation guide. This allows you to select the barcode from the barcode library in LiveCycle Designer ES and use it in form templates that you intend to use with LiveCycle Production Print ES Update 1.

Working with external templates

You can use an XML schema file, exported from a StreamServe Message, to edit and design a template in a LiveCycle Designer ES stand-alone. The exported file uses the StreamServe Message as data connection in the Data view. The template can be re-imported into the StreamServe solution. For example, this is useful if you outsource development and maintenance of templates. New Export commands are added:

- Export Message Schema
- Export Preview XML

Importing LiveCycle Archive

In previous versions an LCA file was imported by using File > Open template command. The new command File > Import LCA Archive imports a LiveCycle Archive file (LCA file), a complete package with main XDP and dependencies. Typically, the LCA file is exported from the Adobe LiveCycle Workbench ES.

Formatting and rendering enhancements

Formatting and rendering have been improved with a number of XFA features that are now supported:

- Typographic controls:
  - Letter spacing – Uniform adjustment of space between characters in the text.
  - Horizontal and vertical text scaling – Texts can be stretched or compressed in either direction.
– Pair kerning – Horizontal position adjustment between certain characters.
– Leaders – Fill the tab space with a specified character, for example dot. For example, useful in table of contents.

• Text pagination:
  – break before/after
  – break inside text
  – orphans
  – widows

• Field and draw keep – The keep element can be used with the field and draw elements. This makes it possible to control splitting over content and page areas.

• Hyphenation – Hyphenation is supported through a third-party hyphenation library, TALO.

• Hyperlinks – You can add hyperlinks to HTTP addresses and to mail addresses. Links within a document are not supported.

• Drop-down lists – Select many items from a drop-down list. Enabled through the script function SetItems.

Sample Project

The Sample Project has been updated to LiveCycle Production Print ES Update 1 functionality.

The following improvements have been made to the sample Project:
• The Project is updated to support dynamic templates.
• Message configurations for showing runtime integration between LiveCycle ES and LiveCycle Production Print ES have been added.
• The Project can be used to verify the basic functionality of the installation. See LiveCycle Production Print ES Installation Guide.
New and changed functionality

Setup
Functionality added for registration in SAP System Landscape Directory, via the StreamServe Connect for SAP Setup (optional step).

Delivery Manager
Minor improvements of Delivery Manager client and command line interface:

• **maxjobstatuswait** option added. Specifies how long (minutes) the Delivery Manager client will wait for notification from a job before reporting the job as failed.

• **waitinterval** option added. Specifies the interval in seconds between scans of the *readjobstatus* notification directory.

• Possibility to use an absolute path (overriding the configuration option) as argument in the command line interface (supporting virtual spool servers and fail-over).

• **DeviceListFile** option added that identifies the device database file (*strsdmdevicedb*) relative to the working directory.

E-docs
Certified interface for XFP (the SAP PDF-based Forms XML Interface) has been introduced.

Business Processes
**Ignoregatewaycancel** option added in idocconverter argument file.
This option can be used to ignore gateway shutdowns, enabling the idocconverter to reconnect to the SAP gateway even if the gateway is shutdown for a short period of time. Value = 1 or 0.

Output+
Additions to the filter configuration file and some minor improvements:

• To improve the handling of incorrect string lengths in OTF data from SAP (could generated overlapping texts) the **STAppendMode** option has changed and a new option **STAppendModeSkipSW** has been added.

  When **STAppendMode** and **STAppendModeSkipSW** are both set to *yes*, SW (Space Width) commands are ignored. This means that any spaces are removed from appended strings.

• You can define position dependent variables directly by editing the *sapgof21xf* configuration file. This provides a more exact method of extracting data from the OTF data stream than when using the selection tool in PreformatIN.

• **additional-linespacing** option added. This option controls line spacing for ABAP List data.
Automatic lock release of not edited components

If you try to open a Process or a resource component that is not locked in the VCS (Version Control System), Design Center asks if you want to acquire a lock and open the component. If you do not edit the component, this lock is automatically released when you close the component.

**Note:** If you manually lock a component (for example by right-clicking and selecting **Obtain Write Lock**) and then close the component without editing, the component is not automatically unlocked.

Release locked components at Design Center closure

If you close Design Center with one or several components locked, the Release Locked Components in VCS dialog box opens. In this dialog box, all locked components are listed and you can choose for which components you want to release the locks at closure.
Setup

Setup improvements

Restart not needed
There is no need to restart your computer after running a StreamServe setup. In previous versions you had to restart after setup.

Parallel installations

Old database scripts
Old database scripts are no longer included in the setup.
This affects users that are running previous versions of Persuasion in parallel with Persuasion SP4.

To run in parallel on Windows
Move the old scripts from your previous Persuasion version to:
C:\Program Files\StreamServe\Applications\Management\5.4.0\etc\databasescripts\[Version]
For example to:
C:\Program Files\StreamServe\Applications\Management\5.4.0\etc\databasescripts\5.3.0

To run in parallel on UNIX
No actions are needed.
New tools

Archive Migration Tool

The Archive migration Tool has replaced the RePrint Migration Tool. In StreamServe Persuasion, the StreamServe RePRINT solution is replaced by StreamStudio Collector.

In Persuasion SP4, a new document storage is introduced – StreamServe archive. The StreamServe archive is optimized for searching and querying for documents.

In Collector versions prior to Persuasion SP4, documents were stored in the StreamServe runtime repository.

You use the Archive Migration Tool to migrate the documents from RePRINT 3.0.1 and later, and from Collector Persuasion SP2 and later to the new StreamServe archive.

Runtime Migration Tool

Runtime Migration Tool is a command line tool used to:

- Inspect runtime repositories.
- Migrate persistent runtime repository data when upgrading from Persuasion SP2 or SP3 to a Persuasion SP4.
- Migrate persistent runtime repository data when deploying from one SP4 environment to another (e.g. from test to production).
- Export document types from runtime repositories.
- Upgrade stored procedures.
- Prepare SP2 and SP3 runtime repositories for migration of Collector enabled documents to a StreamServe archive.

Runtime Migration Tool has replaced the Database Upgrade Tool.
Known issues

The following known issues apply to StreamServe Persuasion SP4.

**SQL Server error when archiving documents**
If you receive the error message below when archiving documents, please refer to Microsoft® Help and Support, Knowledge Base, article ID [950565](#).
You may have to apply the described hotfix to solve the problem.

```
[Microsoft][ODBC SQL Server Driver][SQL Server]Invalid locator dereferenced
```

**Composer**

**Text editor in Internet Explorer 6 SP1**
The text editor does not work in IE6 SP1. When you write text and try to select format (for example font, size, or bold) a dialog box is displayed with a warning: Are you sure you want to navigate from this page?.

**Composition Center**

- In some cases when replacing an uploaded image resource the properties of the image resource are not correctly updated.
- Avoid renaming StoryTeller Processes that are enabled for Composition Center (that is, that are used as templates in StreamStudio Composition Center). Rules set for document definitions that are created from the renamed template will no longer be valid and used when output documents are generated.

**EAN13 and UPC-A position correction**
When upgrading from Persuasion SP2 or previous versions, a small correction of the position of the EAN13 and UPC-A may be noticed. The barcodes may be shifted slightly to the left. This is the expected behavior.
Known issues

StreamStudio Reporter

If an input job is resent by StreamStudio Reporter, the generated document is archived the next time the Archiver application is run. The result is that 2 documents are archived.

This problem only refers to Microsoft SQL server.

Post Processing

Since the setup does not prompt for a reboot, the Object Store service is not started automatically. Therefore the first try to run a Post Processing Project will fail.