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Introduction

This document briefly describes new functionality in LiveCycle Production Print ES2.

Supported platforms and software
See LiveCycle Production Print ES2 Installation Guide.

Installation
See LiveCycle Production Print ES2 Installation Guide.

It is not possible to install LiveCycle Production Print ES2 in parallel with LiveCycle Production Print ES Update1 or with any previous version.

Upgrading
To upgrade from previous LiveCycle Production Print versions (ES and Update1), you must first install ES2 and then open your existing Projects in ES2.

For information on how to upgrade, see the LiveCycle Production Print ES2 Installation Guide.

User documentation
Standard StreamServe user documentation is used alongside the LiveCycle Production Print ES2 specific documentation. The following documents are specific to LiveCycle Production Print, and have been updated to ES2:

• Release Notes – (this document) describes new features in LiveCycle Production Print ES2.

• User Guide – describes LiveCycle Production Print ES2 functionality.

• Installation Guide – describes how to install, upgrade and verify the LiveCycle Production Print ES2 software. It also lists supported software and platforms.
New and changed functionality

This section briefly describes new functionality. For more detailed information, see the LiveCycle Production Print ES2 User Guide.

Runtime scripting and post-processing

Runtime scripting and post-processing integration have been improved:

- Running scripts before/after each record
- Writing to the StreamServe log file
- Assigning variables per page
- Grouping output documents by using Document trigger

Running scripts before/after each record

You can run Before and After Process scripts, before and after each record. In previous versions, these scripts could only be run before and after each Process. This was a limitation when running XML input containing several records.

The very first Before Process script and the very last After Process script, will run in both pre-process and process phase. The other Before and After Process scripts will run only in the process phase. It is important to consider this when configuring the scripts.

You enable and disable this functionality in the Settings dialog box. For new Projects, created in LiveCycle Production Print ES2, this functionality will be enabled by default. For existing Projects, created in LiveCycle Production Print Update1 and earlier versions, the previous behavior with scripts per Process will be default.

Assigning variables per page

In previous versions, mapping the values from a SOM expression to a StreamServe variable was done once for each record. This means that it was mapped once for each document, directly after all pages are produced, but before the document was sent to its destination.

In this release, the possibility to map SOM expressions to each page has been added. The mapping will then be done once before each page is output. This enables the use of more advanced functionality in document broker and sheet layout. For example, you can use a page-level variable extracted from a SOM expression to create proper OMR codes in AFP output.

The mapping is done first for the entire document, and then for each page in turn before it is set to its destination.
A new option **Evaluate variable for each page** is added to the Map Variables dialog box. In the Settings dialog, a column Per Page has been added to StreamServe variable mapping, showing if the variable is mapped per page or document.

![Map Variables dialog box]

**Figure 1**  Mapping variables per page

**Grouping output documents by using Document trigger**

Possibility has been added to use Document trigger in Adobe LiveCycle Designer ES2 Processes for output modes Document and Job. In previous versions, use of the Document trigger had no effect on the output. Each record was automatically mapped to one document.

The Document trigger is a variable that determines the scope of the Document, it determines how to group the output from Processes. You can split and group the output from the Processes connected to the output connector. See *StreamServe Design Center* documentation.

For example, this is useful if all documents with the same customer number in the input job should be included in the same document.

**Writing to the StreamServe log file**

You can write to the StreamServe log file from a script in an XDP template. This is useful during development of StreamServe Projects, for debugging purposes.
New and changed functionality

Runtime and repository integration

The integration between LiveCycle Production Print ES2 and LiveCycle ES2 has been improved:

- Loading of templates dynamically from LiveCycle ES2 repository
- HTTP authentication when loading dynamic templates

Loading of templates dynamically from LiveCycle ES2 repository

Templates can be loaded directly from the LiveCycle ES2 repository, dynamically during runtime, via:

- Static repository URI.
- StreamServe variable or a SOM expression, specified as a HTTP URI or a repository URI.

The user specifies a connection profile for authentication to the LiveCycle ES2 repository. The connection profile consists of host name, port number, user name and password.

When using HTTP URI, the user can specify the credentials for Simple HTTP authentication.

Note that templates, loaded dynamically from the LiveCycle ES2 repository, have to be self-contained. For example, this means that images and fragments must be inlined and there must no external references.

The Select Template dialog box has been modified to support connection to LiveCycle ES2 repository and to enable HTTP authentication.

Figure 2   Select Template dialog box.
New and changed functionality

HTTP authentication when loading dynamic templates

Simple HTTP authentication is used when loading dynamic templates from HTTP servers at runtime. Specified user name and password will be used in runtime as user credentials when the HTTP server requires authentication.

The Select Template dialog box has been changed to enable HTTP authentication settings.

XFA 3.1 support

Adobe LiveCycle Production Print ES2 supports a subset of the XFA 3.1 specification. See Adobe XML Forms Architecture (XFA).

Support for the following XFA features are added:

- Inactive presence
  It is now possible to not only hide, but also exclude a field or subform from processing. This is done by using the new inactive option that can be set for the script property presence.

- Event propagation
  There is a new attribute listen that can be set for the <event> element.
  With the listen attribute the form creators can conveniently implement global procedures for a form.

Sample Project

The Sample Project has been updated to LiveCycle Production Print ES2.

A Sample 5 configuration, AFP3PDF, has been added for converting AFP files to PDF. This configuration uses the PreformatIN tool and dynamic overlays in the PageOUT Process.

USPS Intelligent Mail Barcode

The USPS Intelligent Mail Barcode is supported by LiveCycle Designer ES2 by default.

Previous versions of LiveCycle Designer did not support this barcode by default. The barcode had to be manually enabled in LiveCycle Designer ES2.

Adobe LiveCycle ES2 Workbench process integration – use of applications

LiveCycle ES2 workbench introduces the notion of an application when using the Workbench repository.
All of the assets for a process can be stored in the application and applications can be versioned.

The Production Print service is not aware of applications; it presents a complete repository view for browsing and selecting a form resource in the application.

If a form is created in a LiveCycle application (when designing a process using the production print service) and you select that form in the service property sheet, you will get a view of the complete repository. In order to select the form, you need to browse to the application directory and then select the version of the application in which you are working.

As a side effect, if you create a new application version that uses the production print service, the references to the used forms continue to point at the forms from the base application version. They will not automatically be converted to references to the form in the new application version. The Production Print service property sheet will need to be manually updated to point at the form in the new application version.
New and changed functionality
Known limitations

The following known issues apply to LiveCycle Production Print ES2.

LiveCycle Designer ES2 compatibility

There are some compatibility issues between LiveCycle Designer ES2 and LiveCycle Production Print ES Update 1:

- Form templates generated by LiveCycle Designer 7.x and LiveCycle Designer ES2 are supported. Not supported: LiveCycle Designer 6.x form templates or form templates that use version 6 legacy compatibility mode for Text Formatting or Event Model (in LiveCycle Designer ES2, see Form Properties dialog box, Compatibility tab).
- LiveCycle Designer ES2 templates that are designed using an Adobe Data Model are not supported.
- Adobe Open Type fonts are supported for all LiveCycle Production Print ES Update 1 output formats. To gain optimal PCL performance it is recommended that properly licensed True Type fonts are used.

Hyphenation

Adobe and StreamServe use different hyphenation algorithms. There may be differences in how words are hyphenated when you compare output from LiveCycle Production Print ES2 with output from LiveCycle Output ES2, Forms ES2 or LiveCycle Designer ES2 preview.

To guarantee that fixed text on a form matches, you should manually hyphenate as desired when designing the form. Variable data merged into the form cannot be guaranteed to match.

Processing large single-record documents

When processing large single record documents, for example a single document of 1000 pages, StreamServer will continue to run until the system runs out of memory.

This limitation depends on the amount of memory available and of the input data content.
Known limitations

Emergency handling when content does not fit

In situations when content (subforms, graphics etc) cannot be placed in content areas, due to vertical size or keep constraints, the output can differ between Adobe LiveCycle ES2 and LiveCycle Production Print ES2 solutions.

For example, LiveCycle Production Print ES2 may output an extra page or terminate before all pages are generated.

Splitting subforms with positioned layout

Splitting subforms that have positioned layout over multiple pages, is not fully supported.

A workaround is to prevent splitting of the subform by deselecting the Allow Page Breaks within Content option.

Other considerations

The XDC (XML Device Configuration) files supported by LiveCycle Output ES2 to define access to printer features are not supported by LiveCycle Production Print ES2. The LiveCycle Designer ES2 media mapping process supported by LiveCycle Output ES2 to access specific print device paper trays is thus not available.

Duplex intent in LiveCycle Designer ES2 templates is not honoured. This means that duplex behaviors must be implemented using sheet layout and post processing.