



Customer Engagement

# EngageOne Generate

Version 6.6 Service Pack 7

# Generate Release Notes

This document contains information about the EngageOne Generate 6.6 Service Pack 7 release. Global contact numbers can be found on the technical support website at [www.g1.com/support](http://www.g1.com/support).

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## About this release

EngageOne Generate is part of the Pitney Bowes Software EngageOne Communication Suite and this 6.6 Service Pack 7 release of Generate contains fixes to certain reported issues. Software and associated documentation is provided as a download.

## EngageOne Communication Suite

With the previous point release, Pitney Bowes Software is renaming several products to bring our product offering under the EngageOne Communication Suite brand. The following table summarizes the product components in the suite:

<b>Previous name</b>	<b>New name</b>
CCM Content Author	EngageOne Content Author
DOC1 Designer	EngageOne Designer
DOC1 Generate	EngageOne Generate
EngageOne Administration	EngageOne Administration
EngageOne Interactive Correspondent	EngageOne Interactive
EngageOne Interactive	EngageOne Server
e-Messaging	EngageOne Digital Delivery
e2 Vault	EngageOne Vault

## Release content

There is no keycode requirement when running Generate.

## Localization

Generate is available for the following languages:

- English
- French
- French Canadian
- German
- Unified Spanish
- Brazilian Portuguese
- Russian
- Japanese

Translated versions of the user documentation is provided with this release. Utility programs and other resources are in English only.

## Withdrawn support

From Generate 6.0 onwards, support is withdrawn for:

- HP/Compaq/DEC OpenVMS

From Generate 6.1 onwards, support is withdrawn for:

- HP TRU64
- Microsoft Windows XP (SP3) – 32 and 64 Bit
- Microsoft Windows Vista (SP1) – 32 and 64 Bit
- Microsoft Windows 2003 Server Standard (SP2) – 32 and 64 Bit

From Generate 6.6 onwards, support is withdrawn for:

- Microsoft Windows 2008 Server Standard (SP2) – 32 and 64 Bit
- Z/OS 1.13 vendor support for Z/OS 1.13 has ended. This version is no longer supported by Generate.

## Added support

From Generate 6.6 onwards, support is added for:

- Z/OS 2.1
- Z/OS 2.2
- Z/OS 2.3

Z/OS distribution is now provided for minimum level Z/OS 2.1, this replaces the previous Z/OS 1.13 version.

## Compatibility

Applications created in DOC1 5.1 onwards are compatible with this release of Generate. The application database from these earlier versions will automatically be upgraded and application design rules will run without the need to regenerate them.

**Upgrading from 5.6 and earlier** – please note the following:

### **Issues with Windows fonts**

Successive updates to fonts in Windows 7, 8.1 and Windows 10 have made the True Type (.TTF) Font files supplied by Windows:

- Significantly larger
- Have significant line spacing differences

compared to those supplied with earlier Windows Versions.

It is important to note that:

- Design Content may alter due to the updated font spacing and that this will be reflected in republished Generate output.
- Generate Output size will be significantly larger and may impact Generate performance compared to that obtained using earlier font versions

## Documentation

The following manuals are available in PDF format with this release:

<sup>a</sup> Guide	Version
<a href="#">Designer User's Guide</a>	6.6 Service Pack 7
<p>This guide provides end-to-end information about designing a publication and preparing it for production.</p>	
<a href="#">Designer Utilities</a>	6.6 Service Pack 7
<p>This guide provides information on utilities that are available with Designer and that require some direct programming or command line submission. In particular it covers the Application Import utility and running DOC1 Publish. The guide is provided in English only.</p>	
<a href="#">Production Guide</a>	6.6 Service Pack 7
<p>This guide provides information on putting publications into production. It also provides information about those parts of the core environment that require some direct programming and utilities that require command line submission. In particular it covers running Generate, creating and running PCE scripts, information about user exits and working with the RPU and DIME utilities. The guide is provided in English only.</p>	
<a href="#">Designer Installation Guide</a>	6.6 Service Pack 7
<p>This guide defines the process to install and configure Designer and its associated features. The guide is provided in English only.</p>	
<a href="#">Designer Diagnostic Message Guide</a>	6.6 Service Pack 7
<p>This guide provides information on diagnostics messages issued by Generate and selected Generate Utilities. The guide is provided in English only.</p>	

- a. Note that from this release, the Service Pack number replaces the Issue number on the front cover page title.



## About this release

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### Updates to the User Guides

All manuals are also published in PDF format on the DOC1 Support Net website – <http://www.doc1supportnet.com>. Corrections and updates to the manuals will also be published on this site. Amended versions of the manuals (as distinct from new issues) are identified with a modified issue number – usually with a letter appended to the issue number.

Changes within the manuals themselves are indicated by change bars in the margin next to the amended material in the updated version.

## Changes in this release

### **Support for RHEL / Centos 7.5**

Generate (DOC1GEN, DOC1PCE, etc) has been certified under the Current RHEL / Centos 7.5 version.

### **Removal of 128 font limit restriction for AFPDS Generate output**

The Generate AFP font limit has been updated in this release to 254 fonts per page instead of previous 128 font limit per job.

## Changes in previous 6.6 releases

For reference purposes this section shows changes that were made to EngageOne Generate 6.6. Details of these features and enhancements are in the user guides issued with this release.

### Generate 6.6 Service Pack 6

#### **Line Drawing Barcode support for PDF Output**

This release adds support for Line Drawing Barcodes published to PDF Output

#### **LineData Output improvements**

Generate Linedata output has been reworked to improve output consistency for all Design font attribute changes.

#### **Z/OS 2.3 Support**

This release adds support for Generate program suite execution under Z/OS Version 2.3.

### Generate 6.6 Service Pack 5

#### **Generate “SCP” Set Code Page extended to Windows and UNIX**

Generate Set Code Page “SCP” parameter to override Host / Data Code Page has been extended from Z/OS to formally include Windows and UNIX in this release.

- Windows / UNIX Generate Hosts now support the full range of SCP Code Pages previously supported only by Z/OS
- The full list of “SCP” Codepage overrides has been added to the Production Guide – See “SCP” Production Guide Appendix A for details.

#### **Generate Started Task (DOC1ST) on Z/OS**

Generate Started Task (DOC1ST) support on Z/OS 2.1 / 2.2 has been added.

#### **Generate Diagnostic Messages Guide**

Generate Diagnostic Messages (English only) for Generate and selected Generate Utilities are now documented in a Diagnostic Message Guide in this release.

#### **Generate PDF Output Changes and PDF Reader advisory**

Generate PDF Output in this release has changed for Publications which use Non “ANSI” (Western Europe / Americas / Nordics) Languages.

Previous Generate versions used a Default “Identity-H” (Non Embedded) encoding for Non ANSI Font Languages (e.g. Arabic, CJK (DBCS), Thai, Cyrillic, Bengali, “Unicode”, etc.) which allowed Generate PDF to render on older PDF Reader technologies.

As of 6.6 Service Pack 5 Generate PDF Output for both pre- existing and Designer 6.6 SP5+ HIPs has been updated to now EMBED a “Character Map” (CMap) for these Font languages to cater for the Latest .OTF and .TTF Font formats.

PDF Readers such as Windows 8.1 and Windows 10 Inbuilt PDF Readers which do not support Embedded “CMap” will not render Generate 6.6 SP5 PDF Output for these languages.

Desktop PDF Readers such as Adobe Reader DC (Version 15.0 onwards) for such languages is recommended.

Mobile and Tablet PDF Readers which support embedded PDF CMaps are unaffected.

### **Ghostscript 9.21 (32 bit) support**

Designer now supports Ghostscript 9.21 (32 bit) to use the DOC1MAKE utility for generating external key maps.

### [Generate 6.6 Service Pack 4](#)

- **Designer/Generate improved support for bidirectional text entry**
  - Specifically, rules governing the placement of punctuation characters in a right-to-left paragraph have been put in place for the following items:
    - Open bracket
    - Close bracket
    - Decimal point and thousands separator- Arabic decimal and thousands separators
    - Percent sign and currency symbols
    - Default placement following a number

### [Generate 6.6 Service Pack 2](#)

#### **New supported platforms**

This release introduces support for the following platforms:

- Microsoft Windows 2016 Server
- Microsoft Windows 10

### [Generate 6.6 Service Pack 1](#)

#### **Generate PDF font subsetting enhancements**

This release introduces font subsetting support for the following in Generate PDF output:

- Designer **Standard** True Type barcodes such as DataMatrix and QRCode
- All Designer **Font Scaling** True Type barcodes
- All Windows True Type Symbol fonts such as Wingdings and variants.

This enhancement results in smaller PDF filesizes and improved Generate PDF performance for applications containing any of the above fonts. Font subsetting using the PDF Device **Subsetting** option applies to both pre-existing HIPs from previous versions and to HIPs published from the current version onwards, when using these fonts.

### Generate 6.6

#### **DOC1PCE – Support for moving *Plug In* Charts for AFP**

Support has been added to allow the **Plug in** style charts produced by DOC1GEN to be moved by DOC1PCE.

#### **DOC1PCE – Support for Adding Text to an AFP page where the total number of fonts is greater than 255**

Support has been added to allow the addition of text via DOC1PCE to an AFP Page where the number of fonts exceeded 255. All previous versions were limited to 255 fonts per AFP page. This restriction has now been removed.

#### **DOC1PCE – Support for BEGIN CE “=OUN” to add AFP NOP**

Support has been added to allow the placement of an AFP NOP using DOC1PCE. Refer to the “Composition Edit Commands” section in the Production Guide for Command Syntax.

## Fixes in this releases

Key	Summary
<b>CES-52943</b>	<p><b>Issue Summary:</b> Generate aborts when more than 128 individual font point sizes are used in the Design Publication / Production Job.</p> <p><b>Resolution:</b> All Generate versions from 5.1M5 onwards incorrectly aborted when more than 128 font point sizes were used throughout the Publication.</p>
<b>CES-29584</b>	<p><b>Issue Summary:</b> Characters are missing in Generate output when using a Windows True Type font which has been updated on the Designer Client O/S since the original application design.</p> <p><b>Resolution:</b> When the Windows True Type font on the Designer Client has been significantly updated by the font vendor (e.g Microsoft) and no longer matches the font version and content used in the original application and stored in the design repository, then significant differences may result in the published / generated font output.</p> <p>This version adds the ability to update the previous font version stored in the design repository using the Designer <i>Import Fonts / Windows font...</i> functionality to replace the existing font version with the current Designer Client version by re-importing each individual point size/language used in the design application of the relevant font.</p> <p>Following the font replacement, the user will need to clear the Designer Publish Localcache and Publish for EngageOne Driver cache(s) as required before republishing Generate resources and executing the matching Generate version with the republished resources.</p>
<b>CES-50770</b>	<p><b>Issue Summary:</b> PostScript %%Title contains security risk Server Path</p> <p><b>Resolution</b> DOC1GEN and DOC1PCE have been updated to remove the output file path from the generated PostScript output %%Title comment</p>

Key	Summary
<b>CES-52862</b>	<p><b>Issue summary:</b></p> <ol style="list-style-type: none"><li>1. Font scaling mode is not supported for eHTML output. A warning is printed and the barcode is discarded.</li><li>2. Mixing standard barcodes with font scaling barcodes in the same publication corrupts the sizes of standard barcodes in eHTML output.</li><li>3. QR code images are corrupted in eHTML output and cannot be scanned (even when using the supported standard mode).</li></ol> <p><b>Resolution:</b></p> <p>The above issues were caused by inconsistencies in both publishing and Generate; these have now been fixed. Note that font scaling mode is now supported and it is recommended that this mode is used instead of standard mode so that the point size can be adjusted to increase the size of the QR code.</p>
<b>CES-53866</b>	<p><b>Issue Summary:</b></p> <p>Generate on UNIX hosts terminates unexpectedly when using custom OPS file output settings for large data input</p> <p><b>Resolution:</b></p> <p>Generate on UNIX hosts has been updated to implement large Input data file buffering</p>
<b>CES-53909</b>	<p><b>Issue Summary:</b></p> <p>When Publishable Active Content is used, Generate output from 5.6 onwards may produce incorrect output such as blank pages when the document/publication page number value is used to determine the next page action.</p> <p><b>Resolution:</b></p> <p>Generate output in all 5.6 and previous 6.x versions added Paragraph buffering (<i>Paragraph option Merge with previous paragraph</i>) from the point where Publishable Active Content was used in the Design Application.</p> <p>Paragraph buffering can delay the creation of a new page causing applications to execute differently if the document/publication page number value is used to determine the next page action.</p> <p>Generate has been corrected to check that when Publishable Active Content is being used, it also checks if the Paragraph option <i>Merge with previous paragraph</i> feature has been used before enabling Paragraph buffering.</p>

Key	Summary
<b>CES-52704</b>	<p data-bbox="368 249 554 274"><b>Issue Summary:</b></p> <p data-bbox="368 279 1178 364">Datamatrix barcodes were being rejected erroneously when the length of the value was at maximum capacity. This was the case for both square and flat modes, but was more apparent for flat mode as the capacity is far less.</p> <p data-bbox="368 388 501 413"><b>Resolution:</b></p> <p data-bbox="368 418 639 442">The issue has been fixed.</p>

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## Fixes in previous 6.6 Service Pack releases

Key	Summary
<b>CES-52483</b>	<p><b>Issue Summary:</b> This issue occurs when using the Designer option <b>Start of new page / Always on odd page</b> for new page or section items. When using multiple output devices with different Simplex/Duplex setting it was observed that pages may not be present from the Simplex output (in this case Output1 - PDF) but are present in the Duplex output (Output2 - Postscript).</p> <p><b>Resolution:</b> Generate has been updated to cater for multiple output devices with different Simplex/Duplex settings used with the Design setting <b>Start on Odd Page</b> regardless of the order in which the devices appear in the production job.</p> <p><b>Workaround:</b> In Generate versions prior to this fix switch the order of the devices in the Designer production job so that the Duplex device is defined as Output1 instead of the Simplex device, Republish and execute the updated HIP in Generate.</p>
<b>CES-42251</b>	<p><b>Issue Summary:</b> Using the system variable <b>Page X of y</b> in right aligned text can cause overprinting in Generate output when number separators are present.</p> <p><b>Resolution:</b> The measuring (width calculation) of the <b>Page X of Y</b> system variable text in Generate was not taking into account the width of any thousand separators present. This caused overprinting to occur when the variable was used in right aligned text as the position of the text was incorrectly calculated.</p> <p>This issue has been resolved. Note that this fix does not address the cosmetic <b>Page X of Y</b> system variable issue in the Designer editor which has no effect on the final Generate output.</p>
<b>CES-51215</b>	<p><b>Issue Summary:</b> Generate builds on Z/OS 2.1 was using a migrated obsolete 1.13 MQ Library from the out of support Z/OS 1.13.</p> <p><b>Resolution:</b> This release of Generate on Z/OS 2.x has been updated to use the current MQ installed on Z/OS which is supported by IBM.</p>

Key	Summary
<b>CES-37042</b>	<p><b>Issue Summary:</b> Linedata output:</p> <ul style="list-style-type: none"><li>• Adds extra space for adjacent paragraphs on the same line,</li><li>• adds extra space for any Font attribute change,</li><li>• discards Full Stop "." character.</li></ul> <p><b>Resolution:</b> Generate LineData output has been updated to correctly position adjacent paragraphs on the same line and not to add unwanted spaces for font attribute changes such style, point size, color, etc.</p> <p>Generate LineData wrapping behavior is determined by the Designer LineData Output device grid width. The desired wrapping behavior is achieved by increasing the Linedata grid width.</p>
<b>CES-53525</b>	<p><b>Issue Summary:</b> Generate behaves unexpectedly when the address field length for a PDF URL link exceeds 512 characters.</p> <p><b>Resolution:</b> Generate text and image URL links have been updated to allow for as many characters as required.</p>
<b>CES-51258</b>	<p><b>Issue Summary:</b> Certification of the Generate Program suite on latest Z/OS version 2.3 was not available.</p> <p><b>Resolution:</b> DOC1GEN, PCE, RPU, DOC1ST (Started Task) all executed and outputs verified from this release onwards on Z/OS v2.3.</p>

Key	Summary
<b>CES-49779</b>	<p><b>Issue Summary:</b> White lines may appear in PDF417 barcode output when using standard and font scaling modes. Line drawing cannot be used to overcome this as PDF output does not support this option.</p> <p><b>Resolution:</b> PDF has been added to the list of output devices that support line drawing for most barcode types, including PDF417. Unwanted white lines no longer appear in PDF output when using the line drawing option.</p> <p>The fonts used to render the barcode for standard and line drawing modes have also been updated to eliminate the thick white lines (note that for these modes, single pixel lines can still appear at certain resolutions as with all barcode fonts).</p> <p>If you prefer to continue using fonts over line drawing, then the following must be done on the client machine for the change to take effect:</p> <ol style="list-style-type: none"><li>1. Uninstall the old windows fonts PD2w Regular, PD3w Regular and PD4w Regular. It may be necessary to restart the computer to allow this.</li><li>2. Clear Designer local file cache.</li><li>3. Clear the resource cache used for EngageOne publishing.</li><li>4. Regenerate any HIP files.</li></ol>
<b>CES-50657</b>	<p><b>Issue Summary:</b> Custom overflow data buffering settings to cater for very large input data on all 64 Bit Generate hosts did not work.</p> <p><b>Resolution:</b> <b>DataTextBuffer</b> functionality has been updated for 64 Bit Generate distributions.</p> <p>These Custom Settings are required for very large input data and previously worked only on 32 Bit Generate versions.</p> <p>Example DataBuffer configuration is shown below:-</p> <pre>&lt;Custom&gt; DataFieldBufferFile=tmpfile\GENFBUF.file DataTextBufferFile=tmpfile\GENTBUF.file DataBufferThreshold=10M ReadAheadThreshold=2M</pre>

Key	Summary
<b>CES-51696</b>	<p><b>Issue Summary:</b> Table function transaction number is missing from Generate output when a transaction table breaks a page and the <b>Merge Paragraph</b> feature is used implicitly by Publishable Active Content</p> <p><b>Resolution:</b> If for any reason the merge paragraph functionality is enabled, for example using the <b>Merge Paragraph</b> feature or as in this case referencing Publishable Active Content. The behavior of transaction tables was incorrect prior this fix as follows:</p> <ul style="list-style-type: none"><li>• If a transaction table breaks a page then data from table function Transaction Number is missing from the first table row after a page break.</li></ul> <p>Generate has been updated for transaction tables which use merged paragraphs to produce correct table function values on page overflow.</p> <p><b>Workaround:</b> In Generate versions prior to fix, use a Design Application Variable (Local scope) to store the result of the table function and then place the variable on the design page instead of directly placing the table function.</p>
<b>CES-47362</b>	<p><b>Issue Summary:</b> Character spacing was inconsistent for PDF and PostScript when Unicode or Arabic encoding is used on a fixed width True Type font with font subsetting enabled.</p> <p><b>Resolution:</b> Generate font subsetting has been updated to include all relevant font information when subsetting characters using Unicode or Arabic font encoding on a fixed width font.</p> <p><b>Workaround(s):</b></p> <ul style="list-style-type: none"><li>• In DOC1GEN versions prior to the fix, either: Apply ANSI Font language (e.g Spanish, etc) to the Fixed Width Font (e.g "Courier New") Designer Paragraph</li></ul> <p>OR</p> <ul style="list-style-type: none"><li>• Update PDF / PostScript Output Device Font Section to use <b>Embed</b> option instead of <b>Subsetting</b></li></ul> <p>and Republish / execute DOC1GEN</p>

Key	Summary
<b>CES-49225</b>	<p><b>Issue Summary:</b> Writing PostScript files using journal offsets produces incorrect PostScript Output</p> <p><b>Resolution:</b> Problem found in Microsoft Universal C Runtime library - as used by DOC1PCE on Windows for File Input/Output. The issue is resolved in 10.0.15063.468 or later, C Runtime library. This issue is caused by a bug in the Microsoft Universal C Runtime library.</p> <p>This forms part of the Operating system for Windows 8.1/ Server 2012 R2 and Windows 10 / Server 2016.</p> <p>For Windows 8.1 / Windows Server 2012 R2 Please upgrade to at least Microsoft KB3118401.</p> <p>For Windows 10 / Windows Server 2016 Standard Please upgrade to at least Microsoft KB4025342.</p> <p>For details refer to: <a href="https://support.microsoft.com/en-gb/help/3118401/update-for-universal-c-runtime-in-windows">https://support.microsoft.com/en-gb/help/3118401/update-for-universal-c-runtime-in-windows</a></p>
<b>CES-22534</b>	<p><b>Issue Summary:</b> Changing AFP input tray in the application logic fails when the document orientation changes from portrait to landscape.</p> <p><b>Resolution:</b> Generate was incorrectly trying to switch to the tumble tray when moving from portrait to landscape, even though the AFP device was not configured for double-sided tumble processing.</p> <p>Generate now checks the <b>Duplex processing</b> option in the AFP device before switching to the tumble tray. It will only switch to the tumble tray if the AFP device <b>Duplex processing</b> option is set to <b>Double-sided tumble</b>.</p> <p><b>Workaround:</b> In Generate 6.x versions prior to the fix, create a matching <b>Tumble</b> medium map for the same tray and bin selections required for the Duplex tray and bin combination</p>

Key	Summary
<b>CES-48074</b>	<p><b>Issue Summary:</b> Non Windows hosts were unable to access all available code page overrides using the DOC1GEN <b>SCP</b> command line argument.</p> <p><b>Resolution:</b> The DOC1GEN <b>SCP</b> (Set Code Page) command line argument used to enable all override code pages to be accessed had been standardized across all Generate host platforms allowing an incorrect <b>Host Default</b> data format codepage definition to be corrected at Generate run-time.</p>
<b>CES-41204</b>	<p><b>Issue Summary:</b> PDF output for images in Server Mode can result in invalid PDF where:</p> <ul style="list-style-type: none"><li>• PDF output device <b>Translate to 7 bit</b> option is enabled</li><li>• Publication attribute <b>PDF Password</b> is set</li></ul> <p><b>Resolution:</b> When password protecting a PDF file, the content is treated as binary regardless of the PDF output device <b>Translate to 7 bit</b> option. This can cause image caching conflict issues in Server Mode, preventing unprotected PDF files from being viewed and image corruption in protected PDF files. Generate has been updated to cater for this scenario.</p> <p>Workaround: In Generate versions prior to this fix, the issue can be avoided if the PDF output device <b>Translate to 7 bit</b> option is unchecked.</p>

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## Known restrictions

### Plug-in chart support

The following operating systems do not currently support plug-in charts:

- HP-UX B 11.11 PA-RISC (64 Bit)
- Z/OS 2.x

### PCE - AFP Outline Type1 fonts

When using PCE to add text using AFP Outline Type1 font references, the **GET RESOURCES FROM HIP** command must be coded in the PCE script before any **OPEN** commands.

### PCE - Postscript Open Type Font (.OTF) font handling

When reading or writing PostScript containing PostScript Open Type fonts, the **GET RESOURCES FROM HIP** command must be coded in the PCE script before any **OPEN** command to allow the correct font references to be generated.

Note: that PCE does not support the addition of text using CE **=STL** for PostScript Open Type fonts.

### z/OS Barcodes Support

Some line drawing types are not supported, or have limited support on z/OS, specifically: 2 of 5, UCC/EAN128, Code 128 and QR Code

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# Requirements and installation

Generate includes the main production engine (DOC1GEN), the Post Composition Engine (DOC1PCE) and various production utilities. You can use Generate to create one or more types of output datastream.



REFER TO "RELEASE MEDIA" ON PAGE 31 FOR DETAILS REGARDING THE AVAILABILITY OF DOC1PCE AND OTHER HOST UTILITIES ON 64-BIT GENERATE.

This release is intended for use on processors running the following operating systems:

z/OS

UNIX

- AIX
- HP-UX (PA-RISC)
- HP-UXi (Itanium)
- Red Hat Enterprise Linux (x64)
- Sun Solaris on SPARC
- SUSE Linux (x64 and s390)

Windows (x64)

- Windows 2016 Standard
- Windows 2012 R2
- Windows 10
- Windows 8.1
- Windows 7 (SP1)



### z/OS installation

#### System requirements

Generate operates in a batch IBM z/OS environment. It has been tested under the following software levels:

- z/OS 2.1
- z/OS 2.2
- z/OS 2.3

Later versions of z/OS will normally be able to run the software without modification. Earlier z/OS versions are not supported and are not compatible.

---

#### Datasets included with distribution material

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Name	Org	RECFM	LRECL	BLKSIZE	Contents
DOC1HOST.LOADLIB	PDS	U	0	32760	Contains all the program modules. These are ready to run; no local linking is required.
DOC1HOST.RESOURCE	PDS	VB	256	27998	Resources & confidence test jobs
DOC1HOST.CNTL	PDS	FB	80	3120	JCL for confidence tests
DOC1HOST.AFP	PDS	VBM	32756	32760	AFP confidence material for PCE
DOC1HOST.MTC	PDS	VBM	300	2000	Metacode confidence material for PCE
DOC1HOST.PST	PDS	VB	300	2000	PostScript confidence material for PCE
DOC1HOST.VPS	PDS	VB	300	2000	VPS confidence material for PCE

---

### Installation

Generate is provided as a download.

The release datasets are provided as TSO Transmitted files on the Generate download under the directory ZOS and \SAMPLES\ZOS in TSO.ZIP. The datasets within the TSOs are as detailed on page 25.

Upload the TSO files from the download to a temporary dataset on your z/OS service as binary files with a record length of 80 bytes and no carriage returns (NOASCII NOCRLF LRECL 80).

Use the following Dataset Attributes for your UNLOAD Dataset:

Organisation =PS

Record Format = FB

Record Length = 80

Block Size = 3120

1st Extent Megabytes = 55

Secondary Megabytes =2

Use the TSO RECEIVE command to restore the data and the dataset attributes:

```
RECEIVE INDSN('seq_dataset_name')
```

where *seq\_dataset\_name* is the temporary sequential dataset

and respond to the prompt with

```
DSN('pds_dataset_name')
```

where *pds\_dataset\_name* is the name of a new partitioned dataset which will receive the Generate files. Be sure to give the recipient dataset a meaningful name in accordance with the transmitted dataset name displayed as part of the prompt.

### Confidence testing

In order to confirm that the installation has been successful a range of confidence test jobs are supplied that produce sample output for each supported type of output datastream. To run such a job open the appropriate JCL deck within the DOC1HOST.CNTL dataset and customize it for your installation. The JCL decks are set up to write actual print datastream output from the test jobs to held SYSOUT or disk file depending on the format most suitable for the datastream being generated. You can, of course, redirect this output as required using the DD names indicated above.

The Sample installation (Confirmation test material) is contained within samples.zip which can be found in the...\samples\zos directory

## Requirements and installation

---

This zip file contains:

<b>tso name</b>	<b>Description</b>
cntl.tso	Generate Confirmation Test JCL
resource.tso	Generate Confirmation Test HIPs, INIs, OPS
afp.tso	Generate AFP Confirmation Test Resources
mtc.tso	Generate Metacode Confirmation Test Resources
pst.tso	Generate PostScript Confirmation Test Resources
vps.tso	Generate VPS Confirmation Test Resources

You can see the source publications used for the confidence tests by importing them into Designer. See "Resources for samples /confidence tests" in the Designer Installation Guide for details.

### UNIX installation

Generate is available for AIX, HP-UX, Linux and Sun Solaris. Other than the program modules themselves, the same release material and installation procedures are provided for all platforms.

#### System requirements

Generate operates as standard UNIX batch programs. No additional software is required except when using plug-in charts and rotated objects, refer to “Plug-in chart support” on page 29 for further information. Generate has been tested under the following software levels:

- †IBM AIX 7.1 (TL0) Service Pack 0 (64-bit)
- †IBM AIX 6.1 (TL5) Runtime Library Level 12.1 (64-bit)
- HP-UX B 11.11 (PA-RISC 64-bit processor)  
Install From the Generate Windows and UNIX Install Media  
../hp11/doc1hp11X64host.tar
- ††HP-UX Itanium B 11.23 (Itanium 64 bit Processor)  
Install From the Generate Windows and UNIX Install Media  
../hpi/doc1hpihost.tar
- Red Hat Enterprise Linux 5.4 (64 bit)
- Red Hat Enterprise Linux 6.6 (64 bit)
- Red Hat Enterprise / Centos Linux 7.5 (64 bit)
- SUN Solaris 10 on SPARC (64-bit)
- SUSE Linux Enterprise Server 10 – s390x (64-bit)
- SUSE Linux Enterprise Server 11 – Intel (64-bit)

Later versions of these operating systems will normally be able to run the software without modification. Earlier versions may also be compatible but are not guaranteed.

#### Release media

Generate for UNIX platforms is provided as a single download set of release media.

This may also contain material for other platforms. The release material is provided as two TAR files – one for the Generate material and one for the sample confidence test files:

---

†. IBM AIX support has now been moved from 32-bit to 64-bit, all user exit libraries currently in use will therefore need to be recompiled.

††.HP-UX Itanium support has now been moved from 32-bit to 64-bit, all user exit libraries currently in use will therefore need to be recompiled.

```
<host>/doc<host>host.tar  
<host>/samples/unix/samples.tar
```

### Installation procedure

Extract the entire contents of both the Generate TAR file and the samples TAR file to a suitable location where you will run Generate.

```
tar -xf <extractpath>/<host>/doc<host>host.tar  
tar -xf <extractpath>/samples/unix/samples.tar
```

Add the installation directory into your library search path. To do this in C shell:

on IBM AIX:

```
setenv LIBPATH <installdir>
```

on SUN Solaris & Linux:

```
setenv LD_LIBRARY_PATH <installdir>
```

on HP-UX & HP-UXi:

```
setenv SHLIB_PATH <installdir>
```

### Plug-in chart support

The following operating systems support plug-in charts natively and do not require any additional software:

- Red Hat Enterprise Linux 5.4, 6.4, 6.6, 7.1(64 bit)
- SUSE Linux Enterprise Server 11 – Intel (64-bit)

The following operating systems support plug-in charts but require the Java Runtime Environment (JRE):

- IBM AIX 7.1 (TL0) SP0 (64-bit)
- IBM AIX 6.1 (TL5) Runtime Library Level 12.1 (64-bit)
- HP-UX Itanium B 11.23, 11.31 (64-bit)
- SUN Solaris 10 on SPARC (64-bit)
- SUSE Linux Enterprise Server 10 – s390x (64-bit)



THE MINIMUM JAVA RUNTIME ENVIRONMENT REQUIRED FOR THESE OPERATING SYSTEMS IS JRE 1.5. THIS MUST BE DOWNLOADED AND INSTALLED IF IT IS NOT ALREADY AVAILABLE. NOTE THAT THE LIBRARY PATH MUST INCLUDE THE JRE.

The following operating systems do not currently support plug-in charts:

- HP-UX B 11.11 (PA RISC 64-bit)

### Confidence testing

In order to confirm that the installation has been successful a range of confidence test jobs are supplied that produce sample output for each supported type of output datastream.

## Requirements and installation

---

To run a test job, first check the list of available job files (.hip) in the installed directory and identify the one related to the output datastream you want to create. Ensure the Generate directory is the current path and enter the following on the command line:

```
doclgen <testname>.hip ops=testgen.ops
```

You can see the source publications used for the confidence tests by importing them into Designer. See “Resources for samples /confidence tests” in the Designer Release Notes for details.

### Windows installation

#### System requirements

Generate operates as standard batch programs. No additional software is required. It has been tested under the following platforms:

- Microsoft Windows Server 2016 Standard (64 Bit)
- Microsoft Windows Server 2012 R2 Update (KB2919355) (64 Bit)
- Microsoft Windows Server 2008 R2 (64 Bit)
- Microsoft Windows 10 (64 Bit)
- Microsoft Windows 8.1 Update (KB2919355) (64 Bit)
- Microsoft Windows 7 SP1 (32 and 64Bit)

Later versions of these operating systems will normally be able to run the software without modification.

#### Release media

Generate for Windows is provided as a download. This may also contain material for other platforms. The release material is provided as three ZIP files – two for the Generate material and one for the sample confidence test files:

##### 32-bit Generate

`\windows\doc1host.zip`

##### 64-bit Generate

`\windows\Doc1Gen64.zip`

##### Samples

`\samples\windows\samples.zip`

Note that the 64-bit version of DOC1GEN (Doc1Gen64.zip) and the 32-bit version (Doc1Host.zip) must be extracted to different directories to prevent application conflicts.

#### Installation procedure

Extract the entire contents of both `doc1host.zip` and `samples.zip` to a suitable location on the machine that is to run Generate.



NOTE THAT 64-BIT GENERATE DOES NOT CONTAIN DOC1PCE AND ANY OTHER HOST UTILITIES. IF YOU WISH TO USE PCE, DIME, RPU ETC., WITH 64-BIT GENERATE THE CONTENTS OF DOC1HOST.ZIP MUST BE EXTRACTED TO A SEPARATE DIRECTORY WHERE PCE CAN BE RUN.

### DOC1MAKE utility

If you are going to use the DOC1MAKE utility for generating external key maps you must also install:

- Ghostscript

Note that DOC1MAKE has been tested with Ghostscript 9.21 (32 bit only)

### Confidence testing

In order to confirm that the installation has been successful a range of confidence test jobs are supplied that produce sample output for each supported type of output datastream.

To run a test job first check the list of available job files (.hip) in the installed directory and identify the one related to the output datastream you want to create. Ensure the Generate directory is the current path and enter the following on the command line:

```
doclgen <testname>.hip ops=testgen.ops
```

You can see the source publications used for the confidence tests by importing them into Designer. See "Resources for samples /confidence tests" in the Designer Release Notes for details.