

How To Add AES Encryption to a JES2Mail and JES2FTP PDF Document

Adobe Acrobat moved to support the AES encryption algorithm some time ago, which is a superior method compared to the older RC4 method. JES2Mail and JES2FTP encrypt PDF documents using this superior AES algorithm, which is always 128-bit.

Encryption is accomplished using the “ProtectLevel: AES” statement in a ruleset. By adding the ProtectLevel statement along with a ProtectUserPassword statement to assign a password value to our ruleset, the entire package of our PDF document and any embedded attachments can be encrypted using AES.

Below is an example of the modified script:

```
Name: Comma Delimited Extract
PackageType: PDF
To: support@tonesoft.com
From: jes2mail@tonesoft.com
Font: Courier
FontSize: Medium
PageSize: Letter
Orientation: Landscape
Script: DD:SCRIPT
ProtectLevel: AES
ProtectUserPassword: tonesoft
```

Action: mail

When we open this PDF document in Acrobat we get the password window instead of the document itself:



Once we enter our password “tonesoft” into this window, the document appears with all attachments available for our use, as shown in the following example.

Comma Delimited Extract (4).PDF (SECURED) - Adobe Acrobat Professional

File Edit View Document Comments Forms Tools Advanced Window Help

Create PDF Combine Files Export Start Meeting Secure Sign Forms Re

13:30:51 PAGE: 1

COMMA SALES

DIVISION: NORTH

COMPANY NAME	PRODUCT-A	PRODUCT-B	PRODUCT-C	PRODUCT-D	PRODUCT-E	PRC
INTERSTATE STOCKYARDS	18506	34281	58649	43223	28934	
WYTG BROADCASTING INC	60506	31567	67208	61974	51073	
HOMESTEAD ESTATES	70635	78414	97709	18095	76115	
WYTG BROADCASTING INC	55643		45303	13101	64486	
HEALTHY VINEGARS INC	55553	11628	97501	1270	15284	
SAFARI IMPORTS LTD	3511	69622	35140	98108	11670	
PURE GROWTH DOG FOOD INC	29184	45237		99552	30208	
RENTAL PROPERTIES INC	59019	65085	37694	56656	83987	
WYTG BROADCASTING INC	64321	89151	21679	67779	3791	
INTERSTATE STOCKYARDS	57264	15003	52298	47045	31461	
ACMG GLEDSH HAMMERS INC	92435	42772	63157	94111	36132	
SAFARI IMPORTS LTD	18898	30203	35452	72239	45598	
YOUNG & BROWN INC	33244	90470	64843	25210	26720	
RENTAL PROPERTIES INC	23882	50187	62245	33716	86487	
INTERSTATE STOCKYARDS	96582	13077	70328	2304	1484	
INTERSTATE STOCKYARDS	93745	69167	34615	18960	32860	
SAFARI IMPORTS LTD	39003	70524	25797	62445	22673	620
INTERSTATE STOCKYARDS	22213	50639	37718	30690	14865	
HOMESTEAD ESTATES	96282	71346	55528	98269	67795	
HOMESTEAD ESTATES	39003	47853	97514	78543	54344	
UNLIMITED ADVENTURES INC	1515	29823	18977	50113	56345	
YOUNG & BROWN INC	99741	89635	85882	74984	7540	
HOMESTEAD ESTATES	69375	75253	48487	10204	71001	
YOUNG & BROWN INC	4382	75220	52399	5018	42482	
WYTG BROADCASTING INC	77536	7479	51351	81525	38767	
SAFARI IMPORTS LTD	17895	20708	15962	73297	92021	
HEALTHY VINEGARS INC	21496	71971	6764	22586	40741	
HOMESTEAD ESTATES	65208	47278	10844	71924	13536	
YOUNG & BROWN INC	69095	15628	13079	15324	57135	
WYTG BROADCASTING INC	18165	24914	19228	33061	23202	
HEALTHY VINEGARS INC	74902	36069	65175	88135	45665	
PURE GROWTH DOG FOOD INC	81860	41035	77921	89023	50511	
YOUNG & BROWN INC	34076	24894	92545	32513	71464	
WYTG BROADCASTING INC	40507	1439	37177	75977	64028	
WYTG BROADCASTING INC	70128	8797	43901	7682	12522	
WYTG BROADCASTING INC	48645	74048	40601	87060	28087	
HOMESTEAD ESTATES	91322	49782	4688	48072	42578	
UNLIMITED ADVENTURES INC	89388	97086	1702	29234	20794	
HOMESTEAD ESTATES	45916	48981	6645	9367	37125	
INTERSTATE STOCKYARDS	90223	39322	23895	70213	55787	
SAFARI IMPORTS LTD	48053	62599	67584	18066	41285	
RENTAL PROPERTIES INC	56272	83440	89230	29532	76693	
RENTAL PROPERTIES INC	76247	67493	82434	48854	26981	
YOUNG & BROWN INC	29170	52007	9099	15436	22481	
WYTG BROADCASTING INC	38975	22703	23629	26711	51443	
HEALTHY VINEGARS INC	26335	12603	479	57	28246	
HOMESTEAD ESTATES	64322	73337	85218	21790	24455	
RENTAL PROPERTIES INC	22482	42646	29918	1581	13975	
HEALTHY VINEGARS INC	6107	54540	59070	86482	56360	
SAFARI IMPORTS LTD	12210	50931	31957	99592	11989	
WYTG BROADCASTING INC	94854	85645	10918	16625	93403	
WYTG BROADCASTING INC	23605	21134	27866	43570	2647	
YOUNG & BROWN INC	96187	6559	65642	24654	82301	
UNLIMITED ADVENTURES INC	80936	43974	35860	61495	28140	

Open Save Add Delete Search

Name	Description	Modified	Size
sales.csv	Copy for Excel	10/15/2007 3:05:11 PM	19 KB
logo.jpg	Sample Binary Embed	10/15/2007 3:05:11 PM	4 KB

The security provided by encryption remains with the file during and after the transmission to its intended destination and recipient. Therefore, the document and all embedded files within it will continue to be protected.

Note your JES2Mail and/or JES2FTP release level must be 4.5.0 or higher to use this feature, and the recipient of the encrypted document must use Adobe Acrobat or Acrobat Reader version 7 or above.

Try JES2Mail and JES2FTP in your z/OS shop – Request a no cost evaluation...