

Software Solutions

e-ARC

CREDENTIALS

SOFTWARE SOLUTIONS

MANAGED SERVICES

Making Digital Signature of Electronic Authorized Release Certificates Easy

Use of digitally signed electronic Authorized Release Certificates (ARC) in XML format has been authorized by the FAA order 8130.21G. The condition allowing this digital signature is that it must be applied using a credential that meets or exceeds the requirements outlined in ATA Spec 42 for the medium-software assurance level.

CARILLON e-ARC

The Carillon e-ARC application is a web-browser based solution. It can be fed from existing maintenance solutions through the use of a Web Services (WS) SOAP connector, as well as feed existing archive and transfer systems by a WS.

E-ARC allows forms to be signed, viewed, downloaded in either XML or PDF format, and signatures on the XML forms to be validated; all from within the web-browser.

Unique Features

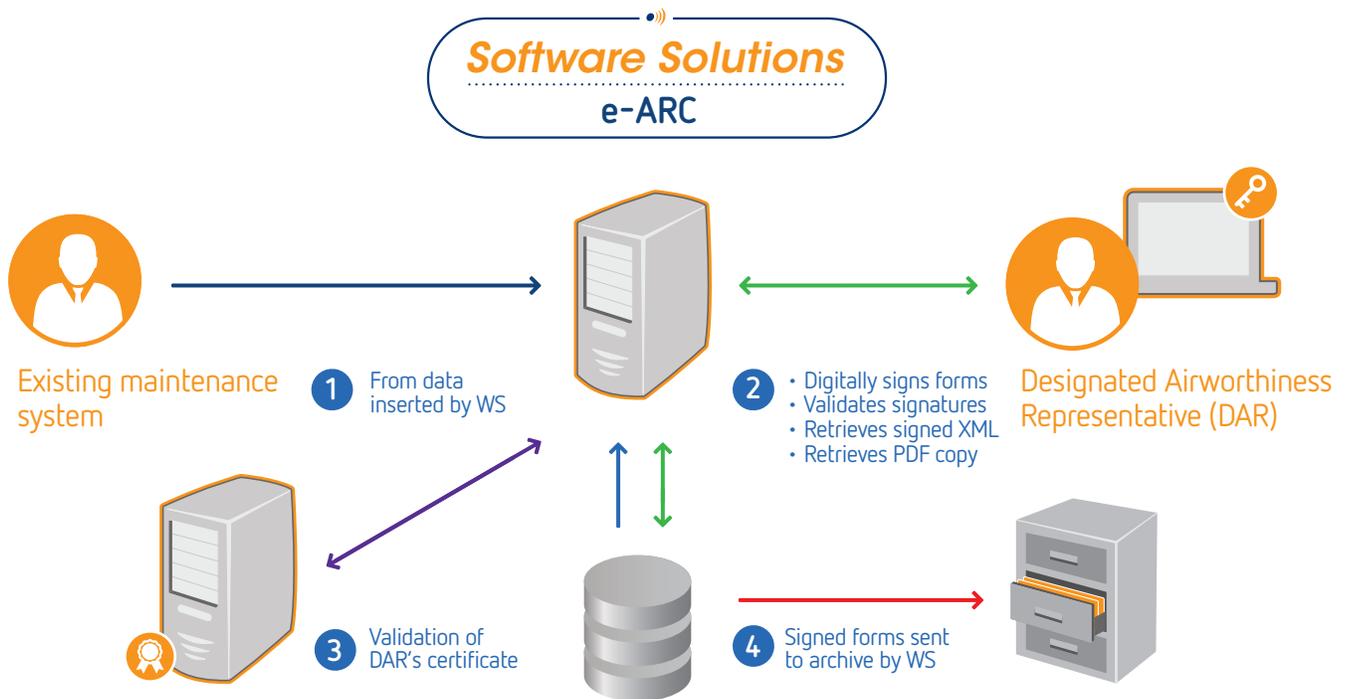
In order to ensure the integrity of a digital signature on an electronic Authorized Release Certificate, Carillon's e-ARC correctly handles all PKI validation items before performing the signature. This means it verifies that the signer's certificate is: issued by the correct Certificate Authority (CA), within its validity period, not revoked, and issued under the correct policy. Carillon's e-ARC solution is a cross-platform Java application. It works with any operating system and web-browser, such as Internet Explorer 6 (and later versions), Firefox and Safari. ActiveX is not required to run this application. In addition to software certificates, all hardware tokens, such as smartcards, can be used with e-ARC without any modification to the application. e-ARC is compliant with the principles of ATA Spec 42 (chapter 2 and 3), as well as with the principles of FAA order 8130.21G and ATA Spec 2000 (chapter 16). It is simple to deploy and offers a low cost of integration due to its crossplatform compatibility.

1. Approving National Aviation Authority/Country: FAA/US		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 99999	
4. Organization Name and Address: American Repair Services, 3434 Harbor Drive, Dallas Any Town, TX, 76645, US Supplier Code: 12345 Production Certificate Number: RX3333K				5. Work Order / Contract / Invoice Number: Work Order No: RO16754 Customer ID Code: 53111			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	AIR MOTOR	C48401-302	N/A	1 ea.	64654564	OVERHAULED	
13. Remarks: <p>Manufacturer Code: S4848</p> <p>Unit was disassembled, cleaned, and inspected. Detail parts were reworked/replaced as required to return unit to a serviceable condition.</p> <p>Repair Manual 55-11-22, Rev. 1, Mar 22, 2001</p> <p>Notice: An airworthiness directive may apply to the unit described herein. The installer is responsible for ensuring complete compliance with any applicable airworthiness directives.</p>							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other registration specified in Block 13 Certifies that unless otherwise specified in Block 12, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 4, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No:		20. Authorized Signature: Digital Signature on file.		21. Approval/Certificate No: 53RX3333K	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): Mary Jones		23. Date (m/d/y): Jan 10, 2007	
User/Installer Responsibilities							
<p>It is important to understand that the evidence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							
FAA FORM 8130-3 (6/01)		*Installer must cross-check eligibility with applicable technical data.				NSN: 0952-00-012-9005	

Carillon's web-browser based solution for digitally signing electronic Authorized Release Certificates allows for simple integration with existing maintenance systems, forms to be signed, viewed, downloaded, and much more...

How it Works

Carillon's e-ARC application facilitates the implementation and use of electronic Authorized Release Certificates. As it can be easily integrated with existing maintenance systems, the process begins with e-ARC receiving form data from the systems already in place. A Designated Airworthiness Representative (DAR) would authenticate him/herself to e-ARC. This authentication is performed with the use of a digital certificate. Authorization is based on the validation of the certificate presented. A number of tasks may be performed by the DAR once authorization has been granted. In essence, the DAR would validate the information on the forms and digitally sign the validated electronic Authorized Release Certificates in XML format. From there, the signed forms can be sent to an archive or transfer system.



About Carillon

Carillon provides a complete spectrum of identity management solutions that are designed to prevent identity theft, promote the migration from paper to electronic authentication, and avoid loss of intellectual property. From consulting services, to validation software and managed identity services, Carillon can provide the skill sets and tools to help companies take control of their corporate digital credentials.

CREDENTIALS

Digital Certificates
PIV-I Credentials
Specialty Digital Certificates

SOFTWARE SOLUTIONS

Trust Validator
Pathfinder Suite

- SCVP Server
- SCVP Client
- Web Proxy
- Radius Server

e-ARC
Certificate Discovery Services

MANAGED SERVICES

Managed PKI for Airlines
Managed Corporate PKI
Managed PIV-I Services
PKI Consulting