Dell™ S2815dn CAC*Star*™ Smart Card Reader Installation and Configuration Guide

Document protection for CAC/PIV enabled Multifunction Devices





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Introduction

CACStar[™] provides a solution to HSPD-12 requirements for CAC/PIV based protection of network data to and from printers or Multifunction Devices (MFDs). You can configure it to require an authenticated CAC/ PIV card to control Copy, Print, Fax, Scan to Folder, Scan to Email, SNMP, or FTP.

Configurable authentication methods include Basic X.509 certificate on the card, PIN validation, expiration, OCSP, root certificate, LDAP, and Kerberos. CACStar will adopt the IP address of the MFD on which it is installed, so there is no host network configuration change necessary.

Configuration is easily done using secure web based access to CACStar by the network administrator. In its simplest form, the admin only needs to configure the IP address of the MFD and the IP address of the local time server. Information about many additional configuration options is described later in this guide.

Prior to starting the CACStar configuration, you must know your network infrastructure. Appendix A has a convenient list of questions and the necessary data that you will need to collect.

If you need help obtaining correct firmware or documentation, contact the Dell ProSupport Help Desk by calling 1-866-516-3115, or by sending email to Imaging_Solutions_Support_CAC@dell.com.

This manual will guide you through installing the hardware, installing the software to convert the Dell S2815dn to be CACStar enabled, and configuration of the customer desired authentication control options.

Initial Setup

- 1. The printer must be configured to use DHCP which is the default configuration.
- Turn the power on. After initialization is complete, the Card Reader display will say Waiting For Card. This will take about 1 ½ minutes.

Manual LAN IP Address Configuration:

- Using the card reader keypad, enter the IP address to be used to access both the CACStar and the MFD/printer. See Figure 1 below.
 - a. Press the **F** key; the display will say **Information**.
 - b. Press the **F** key again; the display will say **Configuration**.
 - c. Press the **Enter** key; the display will show **DHCP** and the current setting. The default is OFF.
 - d. Press the F key again; the display will show LAN IP Address and the current setting.
 - e. Press the **Enter** key; the display will show **Enter New** Value.
 - f. Enter the desired IP Address and press Enter. Use the IP address you want to use for the host connection to the MFD/printer.
 - i. Example: 192.168.1.23 Enter.
 - g. The display will say **Setting Value** for about 5 seconds.
 - h. Press the **F** key; the display will say **LAN Subnet Mask** and the current setting.
 - i. Press the **Enter** key; the display will show **Enter New** Value.
 - j. Enter the desired subnet mask like you did the IP Address.

- k. If you wish to enter the gateway, press the **F** key again and enter it as you did the IP Address.
- I. Press the **Exit** key twice to return to **Waiting for Card**.
- m. To confirm this operation was successful, you can ping the CAC*Star* at its new IP address from your PC.

Automatic (DHCP) LAN IP Address Configuration:

- 4. Using the card reader keypad, enable DHCP using the following steps. See Figure 1 below.
 - a. Press the **F** key; the display will say **Information**.
 - b. Press the **F** key again; the display will say **Configuration**.
 - c. Press the **Enter** key; the display will show **DHCP** and the current setting. The default is OFF.
 - d. Press the Enter key; the display will show F = Change X = Exit.
 - e. Press the **F** key to change the setting from OFF to ON.
 - f. Press the **Enter** key. After about 3 seconds, CACStar will reboot.
 - g. After reboot and initialization, press the **F** key; the display will say **Information**.
 - h. Press the **F** key again; the display will say **Configuration**.
 - i. Press the **Enter** key; the display will show **DHCP** and the current setting.
 - Press the F key again; the display will show LAN IP
 Address and the current setting.

k. To confirm this operation was successful, you can ping the CAC*Star* at its new IP address from your PC.



Figure 1 – Keypad Function Buttons

Accessing the MFD/Printer Web Site

If you wish to access the MFD/printer web site, go to the same URL but do not use port 8443. For example: <u>http://192.168.1.23</u> or <u>https://192.168.1.23</u>

Admin Login

Login to CACStar as the Administrator by pointing your browser to the CACStar using a secure connection on port 8443 at the IP address you assigned in the steps above.

For example: <u>https://192.168.1.23:8443</u> or <u>https://10.5.9.11:8443</u>

You are likely to get an Invalid Certificate Warning from the browser. If so, override the warning and continue to the CAC*Star* web site.

The browser will require an ID and password. The default ID is "admin". The default password is "password".

N YZ	admin
	Remember my credentials

After initial login, you can change the password to one of your choice by going to the Administrator tab.

I	Dell TM CAC	Enabled M	IFD atus				
	Change Password	Administrator Access	Firmware Update	Technical Support	Setup Test	Date Time	Hold Print Files
	Enter the new passw	rord.					
	Admin Password:	<u></u> ₹ 2					
	Change Pass	word					

Connectivity

LAN Side Configuration

DellTM CAC Enabled MFD

Enter the IP Addresses a	and related configu	ration i	nformation for host network communication with the MFD.
Enter the host network (Gateway.	star w	in not use time for vandation.
Enter the DNS server IP	address which is	used fo	or OCSP authentication.
Use DUCE:	_		
MFD IP Address:	10 5 9 11	2	
MFD Subnet Mask:	255 255 0 0	2	
NTP server:	200.200.00	2	NTP from DHCP
Gateway:		2	
DNS Primary Server		2	DNS from DHCP
DNS Secondary Server:		?	
Default Domain:		?	
Update			
Refresh			

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Step 1 – MFD IP Address

This is the IP address that is used for access to these administrator web pages. It is also used for host computer connection to the MFD/printer. This IP address was already set in the initial setup process using the card reader keypad.

If you wish to change this address, it can be done using this screen or from the card reader keypad.

Note: When you press the **Update** button, the CACStar will switch to the new IP address which will cause your browser to be disconnected from the CACStar. To reconnect, redirect your browser to the new IP address you just entered.

Step 2 – NTP Server:

Set this to the Network Time Protocol Server IP address or Server Name. This will allow the CAC*Star* to validate certificates by date.

If DHCP is in use, you may check the "NTP From DHCP" box to force retrieval of the NTP Server address from the DHCP server in which case the address field is not used and may be left blank.

Step 3 – Configure Gateway and DNS Server

Note: A DNS Server is required for OCSP support. It is not necessary to configure a DNS server if you are not using OCSP.

Set this to the DNS IP address to be used by the CACStar for Domain Name resolution.

Example: 10.5.1.2

If DHCP is in use, you may check the "DNS From DHCP" box to force retrieval of DNS addresses from the DHCP server - in which case the DNS address fields are not used and may be left blank.

Step 4 – Configure Default Domain

This field is used for DNS Server Name resolution. Set this to the Default Domain name for the LAN.

Step 5 – Press Update

Local Side Configuration

Dell[™] CAC Enabled MFD

Connectivity Security Administrator Status

LAN Side Configuration Local Side Configuration

These are the values the CACStar uses to communicate with the MFD.

The CACStar IP Address is the IP address of the CACStar on the Local port used to communicate with the MFD. The MFD IP Address, Subnet Mask, and Gateway should be entered into the MFD using it's configuration method.

Local CACStar IP Address:	172.19.10.1	2
Local MFD IP Address:	172.19.10.2	2
Local MFD Subnet Mask:	255.255.255.0	2
Local MFD Default Gateway:	172.19.10.1	2
Update		

These settings define the IP addresses used for Local communication between the CAC*Star* and the MFD/printer. The defaults are likely to be acceptable. Usually there is no need to enter any IP addresses on this configuration page.

Make sure these values were entered into the MFD using the MFD/printer operator panel.

Security

FD Funct	ion l	Enabling				
		8				
ell TM CAC En	abled	MFD				
nnectivity Security A	dministrator	Status				
MFD Function Enabling	Email Setup	Authentication Method	SMB Address Book	User Logging	Upload a Certificate	Device Certificate Managem
CAC Enable Email		2 See Co	onfiguration Items in E	mail Setup		
CAC Enable FTP:		2				
CAC Enable Scan to Fold	er: 🗇	2				
CAC Enable Printing	0	2				
CAC Enable Copy:		2				
CAC Enable SNMP:		2				
CAC Enable LDAP:		2				
CAC SNMP Proxy:		2				
CAC Hold Print:	8	2				
CAC Print Server:		2				
CAC Server Print Only:		2				
Undate						
Update						

Check the boxes for Functions that require a validated CAC Card for use.

If a box is un-checked the Function will always be allowed.

For example:

If you want the MFD **Scan-to-Folder** Function to only be available when a validated CAC Card is installed, check the **CAC Enable Scan-To-Folder** box.

If you want the MFD **Scan-to-Folder** Function to be available all the time whether a CAC card is inserted or not, uncheck the **CAC Enable Scan-To-Folder** box.

Click the **Update** button after all entries are made.

Hold Print

If enabled, Print jobs will be held in the CACStar until the user is authenticated at the printer by inserting their CAC card. After authentication, the user's jobs will be printed.

CAC Print Server

Set this to the IP address of the Secure Print server.

Server Print Only

If enabled, print jobs will only be allowed from the configured CAC Print Server. If not, jobs will be allowed from any IP address. For this to operate, "CAC Enable Printing" must be selected in the "Security/MFD Function Enabling" menu.

nan Setup				
ell [™] CAC Enable	d MFD			
connectivity Security Administra	tor Status			
MFD Function Enabling Email Set	up Authenticatio	n Method	User Logging	Upload a Certifica
				·
These are the Email Setup options wh	en using a CAC care	l to contro	l Email from the MF	D.
CAC Enable Email must be selected in	n MFD Function En	abling befo	re these options will	be used.
SMTP Address or Server Name:	itekctl.us.mil	7 2		
SMTP Port Number:	587	7 2	Default: 25	
User Email Address From:	CAC 🔻	2		
Force Email to Self:		2		
Encrypt Email:	Prompt •	2		
Email Encryption Type:	AES-256 🔻	2		
Sign Email:	Prompt •	2		
LDAP Primary Certificate Attribute:	userSMIMECertifi	cate ⊁ 🤉		
LDAP Secondary Certificate Attribut	e: userCertificate	7 2		
Kerberos Email Authentication:		2		
l la data				
Opdate				

If you have elected to control MFD generated email with your CAC cards, you will need to configure the item shown in the screen below.

SMTP Address or Server Name

Set the IP address or Server Name of the SMTP server.

SMTP Port Number

Set the TCP port number for SMTP communications.

User Email Address From

Select the source location for the "From" email address. Emailed scans can be from either the user's own email address on his CAC card, or from the user's email address on the LDAP server.

Force Email to Self

Choose whether you want to force all emailed scans to the user's own email address. If not checked, he can send to any email address.

If this option is not selected, the user can select the recipient from the printer's internal address book or he can use the printer to enter the email address he wants to use.

Encrypt Email

When sending emails of scanned documents, choose to never encrypt, always encrypt, or Prompt on each message for whether or not to encrypt.

When the MFD is operational and has been configured here to prompt for whether or not to encrypt, the display on the CAC reader will show **Encrypt Email**. Line 2 of the display shows **No** and can be toggled between **Yes** and **No** by pressing the **F** key. When the desired choice is selected, press the green **Enter** key to send the email message. You need to make this choice or press the **F** key within 10 seconds. If there are no key presses for 10 seconds, the system will send the message unencrypted.

Email Encryption Type

Choose the encryption type from either 3DES or AES-256.

Sign Email

When sending emails of scanned documents, choose to never sign, always sign, or Prompt on each message for whether or not to sign.

LDAP Primary Certificate Attribute

Specify the primary LDAP attribute name which should be used to retrieve a certificate for email encryption.

LDAP Secondary Certificate Attribute

Specify the secondary LDAP attribute name which should be used if the primary attribute fails.

Kerberos Email Authentication

Check this box if you want to use Kerberos for Email Login Authentication.

If this box is checked, the "Kerberos" section of "Authentication Method" web page must be completed properly.

Authentication Method

DellTM CAC Enabled MFD



CAC Validated Timeout

This setting is the number of minutes of inactivity before a CAC Validated session will be terminated. If this setting is 0, the timeout is disabled.

Basic

This includes PIN validation, card expiration check, and X.509 card certificate validation. If an NTP server is not configured on the **LAN Side Configuration** page, the expiration check is bypassed. The Basic level of authentication is always included and cannot be removed from the configuration. In some installations, this is sufficient authentication and is the only one activated.

OCSP

Check this box to enable OCSP (Online Certificate Status Protocol) verification of CAC Cards. If enabled the OCSP server will be used to validate the current status of the CAC card PKI certificate.

NOTE: If OCSP is enabled, you must have a DNS server configured.

Root Certificate

Check this box to enable Root Certificate verification of CAC Cards. If enabled, the certificate chain, including the Root CA Certificate will be used to validate the CAC card PKI certificate. The card is also checked to be certain the CAC certificate has a valid private key.

NOTE: If **Root Certificate** is enabled, all Issuer Certificates and Root CA Certificate chains for cards in use at this installation must be loaded into the CAC*Star*. If not, Verify Failures will occur.

LDAP

Check this to enable use of the Active Directory server for additional authentication

LDAP Server IP:	IP address of the LDAP server.
LDAP Server Port:	Port number of the LDAP server.
	The default is 389.

LDAP Query User Name: User Name for the LDAP service account login.

LDAP Query Password: Password for the LDAP service account login.

LDAP Search Base: Defines the location in the directory where a search will start.

Example: OU=Users, DC=Itek, DC=com LDAP Search String: The Search String is used by the LDAP server to find users. In conjunction with User ID options below, this field helps create the query to the LDAP server to find users by name. Any data can go in this field, but there are certain keys that will be expanded to create the query.

The keywords are:

%L – expands to become the user's last name

%F – expands to become the user's first name

%M – expands to become the user's middle name

%E – expands to the user's email address

%e – expands to the user's EDI-PI

%I – expands to the user's PIC-Identification

%s - expands to the user's SAN Principal name

LDAP User ID options:

Choices are cn, upn, mail, or name to be used for finding and identifying users.

Disable LDAP Referrals:

If this box is checked, the Referrals sent by LDAP Servers will NOT be followed.

Kerberos

If LDAP is enabled, you may choose to use Kerberos authentication for the LDAP server. If enabled, Kerberos will be used for: validating the cardholder, authentication to the LDAP server if needed, authentication to the SMTP server if so configured, and authentication to the SMB server if so configured. Multiple entries are allowed.

KDC Server IP: KDC Server Port: The default is 88.

KDC Realm:

IP address of the Kerberos server Port number of the Kerberos server.

Kerberos Realm

KDC Realm Domains: This setting is used to map domains to the realm, and is usually only needed if multiple realms are defined. You can enter one or more host names or domain names prefixed by a period and separated by commas.

KDC Principal: User Name. This can be either the CN or the EDI-PI, or San Principal.

PKINIT Win2K:

The setting affects the "Public Key Cryptography for Initial Authentication" in Kerberos. Check this box if you are using a Windows 2000 KDC Server and/or need to use the older Kerberos PKINIT command/reply set.

Disable Reverse DNS Lookups:

Check this box to disable Reverse DNS Lookups by Kerberos (and LDAP). This is only necessary if there is a problem using Reverse DNS Lookups. If this box is checked, host names must be used for "KDC Server" and "LDAP Server" input fields.

MFD LDAP Kerberos Proxy:

If enabled and Kerberos is enabled, LDAP searches from the MFD will be modified to use Kerberos Authentication. The LDAP Server and Port settings must be correct.

MFD SMB Kerberos Proxy:

If enabled and Kerberos is enabled, network scan (SMB) operations from the MFD will be modified to use Kerberos authentication.

Default SMB Server Address:

The IP address or server name for the default SMB server. This address will be used if the SMB server address cannot be obtained from the printer.

Default SMB Service Name:

The Service Name for the default SMB server, e.g. myshare\$. This name will be used as the principal for Kerberos authentication if the Service Name cannot be obtained from the printer.

Default SMB Username:

The Username for the default SMB server. This is only needed if "MFD SMB Kerberos Proxy" is NOT checked - AND the "SMB Folder Name" IS configured.

Default SMB Password:

The Password for the default SMB server. This is only needed if "MFD SMB Kerberos Proxy" is NOT checked - AND the "SMB Folder Name" is configured.

SMB Folder Name:

If a Folder Name is configured, any folder name that is used by the printer will be replaced with this Folder Name. Keywords can be used in this definition so the folder name is "customized" based on the validated user.

These keywords are:

%L - expands to the user's last name

%F - expands to the user's first name

%M - expands to the user's middle name

- %E expands to the user's Email
- %e expands to the user's EDI-PI

%I - expands to the user's PIC-Identification

%u - expands to LDAP Attribute value

SMB Folder LDAP Attribute:

If a Folder Name is configured using %u, the LDAP Attribute defined here will be used to retrieve the path value for the %u field. Care should be taken when using "\" characters before or after the %u - based on whether the LDAP Attribute value includes "\" character(s) at the beginning or end.

SSL CA Certificate Checking

If enabled, the host SSL certificate will be verified against the CA certificate. Therefore, the applicable CA certificate must be loaded into the CACStar.

SMB Address Book **DellTM CAC Enabled MFD** Connectivity Security Administrator Status MFD Function Enabling Email Setup Authentication Method SMB Address Book User Logging Upload a Certificate SMB Address Book entries allow definition of multiple variable-based Server/Path destinations. Each destination name has the format "SMB-Book1" to "SMB-Book99" - this name should be used for the printer's "Server Addre The following sequences may be used to specify user-related data in the destination path: %F : First name, %M : Middle Name, %L : Last name, %E : Email Address, %e : EDI-PI, %I : PIC-Identification %u<ldap-attribute>% : LDAP attribute value Examples \\myserver\myshare\%e < or > %uhomeDirectory% NOTE: all entries MUST resolve to a fully-qualified Server and path (Ex: \\myserver\myshare\myfolder). SMB-Book1: \\dc\Scans\%e SMB-Book2: %uhomeDirectory% SMB-Book3 SMB-Book4: SMB-Book5: SMB-Book6: SMB-Book7:

SMB Address Book entries allow definition of multiple variable-based Server/Path destinations.

Each destination name has the format "SMB-Book1" to "SMB-

Book99" - this name should be used for the printer's "Server Address" configuration.

The following sequences may be used to specify user-related data in the destination path:

%F : First name, %M : Middle Name, %L : Last name,

%E : Email Address, %e : EDI-PI, %I : PIC-Identification,

%u<ldap-attribute>% : LDAP attribute value

Examples:

\\myserver\myshare\%e < or > %uhomeDirectory%

NOTE: all entries MUST resolve to a fully-qualified Server and path (Ex: \\myserver\myshare\myfolder).

User Logging
Dell [™] CAC Enabled MFD
Connectivity Security Administrator Status
MFD Function Enabling Email Setup Authentication Method User Logging Upload a Certificate
Allow a User Log File to be Created, Deleted or Uploaded.
Enable User Logging: 🗷 2
Update
View User Log File
Delete User Log File
Refresh

User Logging provides a means to create, view or delete a user log file to track user activity. If this is enabled, it will log the date, user name, and other information. The log can be downloaded in a csv file format for viewing.

Upload Certificate

Connectivity	Security	Administrator	Status				
MFD Functio	n Enabling	Email Setup	Authentication Method	User Logging	Upload a Certifica		
Upload a ne Browse to t	w Certificat he selected f	e File. île and click Upl	oad Certificate				
Choose a C Choose File	ertificate file No file cho	e to upload: sen <u>2</u>					
L	pload Certific	ate					
Create Certificates Summary This make take several seconds to complete							
View	Certificates S	ummary					

CACStar User Guide Rev A27 Copyright 2017 Digital Imaging Technology Use this page to load Issuer and Root Certificate Authority Certificates into CACStar.

PKCS7, X509, PEM and DER formats are supported.

Use the **Browse** button to select the Certificate file on your PC; then click the **Upload Certificate** button.

If your certificates are in a .txt file format, please send them to us, and we will convert them to a supported format. If desired, we can preload them into new units.

The **Create Certificates Summary** will create a text file listing all certificates stored in the CAC*Star*. This is a text file that can be viewed or downloaded by selecting the **View Certificates Summary** button.

Device Certificate Management

DellTM CAC Enabled MFD



Generate and upload a Certificate Signing Request (CSR). Once the request is processed by a Trusted Certificate Authority, upload the signed certificate.

Administrator

Use this feature to change the password for the administrator. When the Change Password button is clicked, the next internal web page access will require this new password.

Administrator Access

DellTM CAC Enabled MFD

hange Password Administrator A	Access	Firmware Update	Technical Support	Setup Test	Date Time	Hold Print File
f desired, two LAN Side Administra The port is 8443 when using secure 1	ntor IP ad	dresses may be defin t is 8080 when using	ed for additional secu non-secure http	rity when acce	ssing CACSta	r configurations
ine points of the time is sing secure i		is coord thick doing	in second intp:			
Allow All IPs:	A	2				
Administrator #1 IP Address:		2				
Administrator #2 IP Address:		2				
MFD IP Address Reference:	10.5.9.10					
MFD Subnet Mask Reference:	255.255.0).0				
Allow Telnet Access (Port 23):	•	2				
Use Non-Secure HTTP (Port 8080):		2				
Disable Front Panel Configuration		2				
SMB Disable NBSS		2				
Update						

CACStar User Guide Rev A27 Copyright 2017 Digital Imaging Technology These settings allow the admin to provide additional security by limiting CACStar admin access to specified IP addresses. If the **Allow all IPs** box is checked, an admin can access the CACStar configuration items from a PC at any IP address if he knows the ID and password. If it is not checked, the admin must access the CACStar configuration pages from the IP addresses specified for Administrator #1 or #2. These addresses must be on the same subnet as the CACStar.

Allow Telnet

If this is enabled CACStar will allow a Telnet session to occur. The Telnet session will happen over Port 23. Telnet use with CACStar is intended for diagnostics by the developers.

Allow Non-Secure Port 8080

If this is enabled, CACStar will use Port 8080 and HTTP for HTML. Otherwise, Port 8443 and HTTPS will be used for HTML. Changing this setting requires a reboot of CACStar.

Disable Front Panel Configuration

If this is checked, CACStar will disable the Front Panel keyboard from changing the IP address, subnet mask, and gateway. Viewing of these settings on the front panel LCD will still be allowed.

SMB Disable NBSS

If this box is checked, CACStar will suppress NBSS traffic from the printer. This setting is only required when SMB/Kerberos Proxy is enabled and the local network does not allow NBSS traffic.

rmware Update				
ell TM CAC Enabled MFD				
Change Password Administrator Access Firmware Upd	te Technical Support	Setup Test	Date Time	Hold Print Files
Update the Firmware or the Configuration settings in the CAO Browse to the selected update file and click Upload File	Star.			
Choose a Firmware or Configuration file to upload: Choose File No file chosen Upload File	2			
Create and Export the Current Configuration.				
Create Config File Export Config File	2			
Create and Export the currently loaded Certificates.				
Create Certificates File Export Certificates File	2			
The new Firmware will be installed and executed at the new Reboot CACStar	xt Boot.			

Firmware is stored in flash memory and can be updated as necessary for addition of new features. The CACStar.cfg file may also be uploaded. It is a text file that contains the CACStar configuration items.

For more details about how to update the firmware, please see the separate document "Firmware Update Procedure".

Create and Export Current Configuration

Create Config File will create a configuration file containing all current settings except LAN IP Address, LAN Mask, and LAN Gateway. Thus, the Config file can be used to configure other CACStars. The passwords are encrypted so they may not be edited. The first line of the file must not be edited. The MAC address and Serial Number are displayed for information purposes only and will not be used as a configuration item.

Export Config File will allow this file to be saved outside CAC*Star*. This file should be saved as a text file. It may be edited with a text editor. It may also be uploaded to CAC*Star* at a later date.

Create and Export Current Certificates

Create Certificates File will create a file called CACStarCerts.tar.gz which will contain all currently loaded certificates. Export Certificates File will allow this file to be saved outside CACStar. This file may be loaded to any CACStar.

Technical Support

For help obtaining the correct firmware or documentation, contact Dell's ProSupport Help Desk by calling 1-866-516-3115, or by sending email to <u>Imaging Solutions Support_CAC@dell.com</u>

Dell[™] CAC Enabled MFD



This page is used to obtain Log Files and Capture Files to help diagnose network and configuration concerns. Use of these features is normally in conjunction with technical support from your vendor.

Create SysLog File

A log file can be created for use by CACStar Engineering to help

resolve problems that may occur.

Ethernet Capture

An Ethernet Capture file can be created containing information from either the Local port or the LAN port for use by CAC*Star* Engineering in customer support activities.

Ping MFD

CACStar pings the MFD over its internal local link to verify communication between CACStar and the MFD.

Setup Test

ell [™] CAC	C Enable	d MF	D				
p Check Test							
nnectivity Sec	arity Administ	rator Sta	atus				
Change Passwor	d Administrato	or Access	Firmware Update	Technical Support	Setup Test	Date Time	Hold Print
Test the addresses This Test will gene Note: This test ma	entered into the CA rate a report of the y take a few mome	AC <i>Star</i> for c e success of ents to run	communications. the various addresses.				
Run Setup Setup Test:	Test						
DNS Test: Resolv.conf s	ettings:						
Resolv.conf s	ize: 41						
nameserver	10.5.1.2						
End of Resolv	.conf settings.						
Dhclient-scri Configuration	pt size: 6469 settings:						
LDAP Server	: [itekctl.us.m	iil], IP Ad	dress [10.5.1.23].				
KDC Server: Email Serve	<pre>[itekct1.us.ml. r: [itekct1.us.</pre>	<pre>1], IF Add mil], IF A</pre>	ress [10.5.1.23]. ddress [10.5.1.23]				
NTP Test:							
Mode 1 test	:						
25 Mar 14	ed: :41:35 ntpdate[-	4233]: adj	ust time server 10	.5.1.23 offset 0.002	1822 sec		
Mode 2 test	:						
Test Pass 25 Mar 14	ad: :41:43 ntpdate[4263]: adj	ust time server 10	.5.1.23 offset 0.013	3250 sec		
Kerberos Test	:						
Teat Dear							

Date Time	ate Time Dell TM CAC Enabled MFD				
Dell TM C					
Connectivity	Security Adm	inistrator	Status		
Channe Pass Support Se	tup Test Date	Time Ho	ess Firmware Update Technical		
Change the I The Hardwar Current Date	re Clock is used for and Time: Tue Au	e Hardware r Date and T g 5 15:05:19	Ciock. 'ime at Boot until a valid NTP server is found. 9 EDT 2014		
Year:	2014 🔻	2			
Month:	08 🔻				
Day:	05 •				
Hour: Minute:	15 •				
Second:	19 ▼		Set Date/Time		
Local Time 2	Zone: Eastern	• 2	Set Time Zone		

This is used to set the system date and time in CACStar if necessary. The time zone should be set to your local time zone.

nnectivity Secur	ity Administra	tor St	atus					
Change Password	Administrator	Access	Firmware Upda	ate	Technical Support	Setup Test	Date Time	Hold Print I
information that is co	ontained in the prin	t job file.	ndate Expiration	1	32	not materi ute		
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Hold Print Files

Hold Print files will be stored encrypted in CAC*Star* and can be printed with CAC authentication at the printer.

Hold Print files expire after the set number of days. When the expiration date is reached, the file will be deleted without being printed.

Remaining storage and total storage are displayed so the user will know if held print files are reaching the maximum storage capacity. When storage is nearly full, a warning message will be displayed on the CAC reader LCD - MEMORY NEAR FULL.

Hold Print Expiration

This sets the default expiration in number of days for all received Hold Print files. When the expiration date is reached for a Hold Print file, it will be deleted without printing.

Hold File Name Matching Format

This field defines the format that will be used to associate the username in the Hold Print files with Card-Validated users. Any data can go into this field and keywords will be expanded.

These keywords are: %F - the user's first name %f - the first character of the user's first name %M - the user's middle name %m - the first character of the user's middle name %L - the user's last name %I - the first character of the user's last name %e - the user's EDI-PI %I - the user's PIC-Identification %S - the user's SAM Account Name (from LDAP)

A number may be used between the '%' and the keyword to specify a maximum number of characters.

For example: '%5L' would indicate a maximum of 5 characters of the user's last name.

Add Hold Print Usernames

If jobs must have user names from the host system that cannot be identified using the Name Matching information from the CAC card, a host Username can be entered into CACStar using the "Add a new Hold Print Username" command. The Username can be associated with identifying data from the CAC card as follows:

First:	
Last:	
EDI-PI:	
San Principal:	
Username:	7
Submit Username	

Export Hold Print Usernames

If you want to copy the usernames from one CAC*Star* to another, you can Export the usernames. You will get a ***.db file which you can then send to another CAC*Star* to load them into the other CAC*Star*.

Status

The Status pages offer three views of information about the current operations of CAC*Star*. Number of successful card validations, number of unsuccessful card validations, network operations, date/time, and firmware version are all displayed.

Card Reader

Dell TM CAC Enabled MFD				
Connectivity	Security	Administ	trator	Status
			1	
Card Reader	Network	Other		
Card Inserte	ed: No			
Card Valida	ted: No			
Card User N	Name:			
Total Valida Total Valida	ite OK: 552	2		
10tal Valida	no 1 ans. 197	,		
Reset C	Counters			
Ref	resh			

Network

DellTM CAC Enabled MFD

C	Connectivity Security A	dministrator Status
	Card Reader Network	Other
	Lan Side	
	MAC Address:	00:50:27:01:90:30
	MFD IP Address:	10.5.9.10
	MFD Subnet Mask:	255.255.0.0
	NTP Server:	10.5.1.2
	Gateway:	10.5.2.1
	DNS Server:	10.5.1.23
	DNS Server:	10.5.1.2
	Local Side	
	Local MAC Address:	00:50:27:01:90:31
	Local CACStar IP Addres	s: 172.19.10.1
	Local MFD IP Address:	172.19.10.2
	Local MFD Subnet Mask:	255.255.255.0
	Local MFD Gateway:	172.19.10.1
	Local MFD Model:	Dell C3765dnf Color MFP

Other					
Dell TM CAC Enabled MFD					
Connectivity Security Administrator Status					
Card Reader Netw	ork Other				
Date/Time:	Thu Jan 1 01:46:31 GMT 1970				
Firmware Version:	8.4				
Boot Version:	1.9				
Serial Number:	US-014CV7-71970-123-0001				
Product Revision:	A27				
Kbd-Disp Version:	01.04				
Refresh					
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Patent Pending					
Dell and the Dell lo	Dell and the Dell logo are trademarks of Dell Inc.				

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